

Match Line
See Sheet No. 197

INDEX OF PLAN/PROFILE SHEETS

LINE NO.	STATION TO STATION	SHEET NO.
1	0+000.000 TO 0+350.983	206
1	0+350.983 TO 0+650.983	207
1	0+650.983 TO 0+981.333	208
1	0+981.333 TO 1+336.466	209
1	1+336.466 TO 1+697.476 (BK)	210
1	1+697.476 (AHD) TO 1+959.912	211
1	1+959.912 TO 2+107.906 (BK)	212
1	2+108.260 (AHD) TO 2+462.445	213
2	0+000.000 TO 0+380.000	214
2	0+380.000 TO 0+755.000	215
2	0+755.000 TO 1+104.712	216
2	1+104.712 TO 1+445.000	217
2	1+445.000 TO 1+795.000	218
2	1+795.000 TO 1+936.666	219
2A	0+000.000 TO 0+027.247	219
3	0+000.000 TO 1+091.423	220
4	0+000.000 TO 0+191.391	221
4	0+191.391 TO 0+396.871	222
5	0+000.000 TO 0+142.073	223
6	0+000.000 TO 0+298.194	224
6A	0+000.000 TO 0+028.681	224
7	0+000.000 TO 0+026.644	225
8	0+000.000 TO 0+109.280	225
9	0+000.000 TO 0+182.584	227
10	0+000.000 TO 0+103.572	227
	MAIZE RD. WATER SERVICE LOWERING AND IRRIGATION METER LOCATIONS	226

GENERAL NOTES

- ALL ELEVATIONS SHOWN ARE U.S.G.S. METRIC DATUM.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

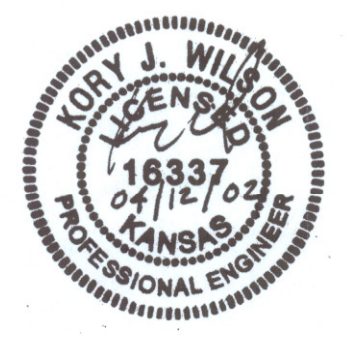
KANSAS ONE-CALL	687-2470
CITY OF GODDARD	794-8992
MR. RANDY BROOKS	

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

COX COMMUNICATIONS	262-0661
KANSAS GAS SERVICE	832-3169
WESTAR ENERGY	383-8600
PEOPLES NATURAL GAS	1(800)-527-0357
SOUTHWESTERN BELL TELEPHONE CO.	1(800)-870-8390
CITY OF WICHITA WATER DEPARTMENT	262-6000
CITY OF WICHITA SEWER MAINTENANCE	262-6000
- ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS.
- THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN BY THE PLANS. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE SUBSIDIARY TO WATERLINE SITE CLEARING.
- OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS, THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO WATERLINE RESTORATION.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
- INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL TRAFFIC CONTROL REQUIRED TO COMPLETE WATERLINE CONSTRUCTION SHALL BE SUBSIDIARY TO WATERLINE PROJECT COSTS. TRAFFIC CONTROL REQUIRED FOR WATERLINE CONSTRUCTION IS INDEPENDENT OF TRAFFIC CONTROL REQUIRED FOR THE HIGHWAY IMPROVEMENT.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED OF BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR78 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE RESTORATION".
- ALL APPROVED EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE STOCKPILED AT NO ADDITIONAL COST TO THE OWNER. STOCKPILE LOCATIONS SHALL BE IN ACCORDANCE WITH GENERAL NOTE NO. 11 ABOVE.
- THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF 2.722 Kg PER 92.903 M² (6 Lbs. PER 1000 Sq.Ft.). THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 12 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- PRIOR TO BEGINNING THE INDIVIDUAL WATERLINE RELOCATIONS AND/OR ADJUSTMENTS, WATER METER AND FIRE HYDRANT RELOCATIONS AND/OR ADJUSTMENTS, AND SERVICE CONNECTIONS, THE CONTRACTOR SHALL EXCAVATE THE EXISTING WATERLINES AT ALL CONNECTION POINTS, TO VERIFY PIPE SIZE, FITTINGS AND HORIZONTAL AND VERTICAL LOCATIONS. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE WATERLINE PROJECT.
- CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE SHALL BE MADE WITH CLEAN, SWABBED PIPE, AND FLUSHED UPON COMPLETION OF THE-INS.
- REQUESTS FOR SHORT TERM WATER SERVICE INTERRUPTIONS SHALL BE MADE TO THE CITY WATER AND SEWER DEPARTMENT AND WILL BE SUBJECT TO THEIR APPROVAL. SUBJECT TO THEIR APPROVAL, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANT SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS. THE CONTRACTOR'S PROPOSED SEQUENCING FOR TAPPING THE EXISTING WATER MAINS SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL.
- PAVEMENT REMOVAL AND/OR REPLACEMENT WILL BE MEASURED AND PAID FOR ON THE LINEAL METER BASIS AS MEASURED ALONG THE CENTERLINE OF THE WATER LINE REGARDLESS OF WIDTH, PAVEMENT TYPE AND/OR PAVEMENT THICKNESS. MINIMUM LIMITS OF SUCH PAVEMENT REMOVAL AND REPLACEMENT SHALL BE 0.3 METERS BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THE WATER LINE OR THE STRUCTURE, EXCEPT WHEN SUCH SAW CUTS ARE WITHIN ONE METER (3.28 FEET) OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATION. PAVEMENT REMOVAL AND REPLACEMENT FOR THE WATERLINE CONSTRUCTION SHALL BE INDEPENDENT OF THE HIGHWAY CONSTRUCTION.
- A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. WHEN SUCH SAW CUTS ARE WITHIN ONE METER (3.28 FEET) OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT. SEE GENERAL NOTE NO. 18.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAINS WITH THE CITY SUCH THAT THERE IS A MINIMUM OF DISRUPTION TO THE CITY. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR THEIR APPROVAL FOR COMPLETING WORK AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ABANDON EXISTING WATERLINES AS SHOWN ON THE WATERLINE KEY MAP SHEETS 196 AND 197. WHERE IT IS CALLED OUT FOR THE EXISTING PIPE TO BE REMOVED, THE TRENCH SHALL BE BACKFILLED TO 600MM (2.0 FT.) BELOW PROPOSED PAVEMENT ELEVATION WITH FLOWABLE FILL. THE COST FOR WATERLINE ABANDONMENT SHALL BE INCLUDED IN THE WATERLINE PROJECT COSTS. THE REMOVAL OF AC PIPE SHALL BE ACCOMPLISHED IN ACCORDANCE WITH OSHA AND EPA GUIDELINES. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST RESTRAINT WHERE CAPS ARE REQUIRED ON LINES THAT WILL REMAIN IN SERVICE.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROPERTIES IN THE PROJECT AREA DURING CONSTRUCTION OF THE WATER MAINS. THE TEMPORARY CLOSINGS OF ANY STREETS OR ACCESS DRIVES SHALL BE KEPT TO A MINIMUM AND APPROVED BY THE ENGINEER. CONSTRUCTION AFFECTING ACCESS TO PROPERTIES MAY BE REQUIRED TO BE PERFORMED DURING NON-PEAK HOURS. REMOVAL OF DRIVEWAYS SHALL BE APPROVED BY THE ENGINEER.
- ALL VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE AS DIRECTED BY THE ENGINEER. ALL VALVE BOXES SHALL HAVE CAST IRON RING AND LID AND SUCH LID SHALL HAVE THE WORD "WATER" EMBEDDED INTO ITS SURFACE. ALL VALVE BOX PARTS (UNLESS EXPLICITLY STATED OTHERWISE) SHALL BE MADE OF DUCTILE IRON OR POLYVINYL MATERIALS. ANY VALVE WITH ITS OPERATING NUT MORE THAN 5 FEET BELOW FINAL GRADE SHALL HAVE A KEY EXTENSION INSTALLED AND THE TOP OF SUCH KEY EXTENSION SHALL BE 3 FEET BELOW FINAL GRADE. SUCH KEY EXTENSION SHALL BE MADE FROM 2 INCH STRUCTURAL STEEL TUBING WITH A BASE TO FIT OVER, AROUND, AND ATTACH TO THE VALVE OPERATING NUT. THE KEY EXTENSION SHALL BE SECURELY FASTENED TO THE VALVE BY BOLTING OR WELDING TO THE VALVE OPERATOR AND/OR THE VALVE STEM. THE TOP WILL BE ENCLOSED SQUARE STEEL TUBING THE SIZE OF THE STANDARD OPERATING NUT AND SHALL HAVE A CIRCULAR PIECE OF 1/2 INCH FLAT STEEL AS A DIRT COLLAR AND TO PREVENT EXCESSIVE MOVEMENT IN THE VALVE BOX. THE INSPECTOR SHALL SEE THAT THIS REQUIREMENT IS MET AND SHALL NOTE KEY EXTENSION LENGTHS ON AS-BUILTS.
- IN LOCATIONS WHERE FLOWABLE FILL IS SHOWN FOR BACKFILL, THE CONTRACTOR SHALL USE JETTED FILL SAND FOR BACKFILL WHERE PROPOSED STORM SEWERS ARE TO BE INSTALLED. AN APPROVED SAND MATERIAL SHALL BE FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES WITH 100% PASSING THE 19mm (3/4") SIEVE; TO BE JETTED AND MECHANICALLY VIBRATED INTO PLACE AND COMPACTED TO 95% DENSITY AS DETERMINED BY ASTM D698.

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING BLOW OFF
- PROPOSED BLOW OFF



Larry J. Powell
10-18-04
RECORD DRAWING

1		Revisions		By	Date
No.					
CITY OF WICHITA, KANSAS					
KEY MAP AND GENERAL NOTES					
SEDGWICK COUNTY					
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003					
Designed by	KW	Checked by			
Drawn by	TDS, JGA	Date	APRIL, 2002	Job No.	97362

DSNR: KJW OPER IDS SCALE: 1=4.00
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