

City of Wichita
Sedgwick County, Kansas

STORM SEWER IMPROVEMENTS COMOTARA 2ND ADDITION, WICHITA, KANSAS

CITY PROJECT NUMBER: 468-84662
OCA NUMBER: 660541

CITY ENGINEER:
MR. JAMES L. ARMOUR, PE



GENERAL NOTES:

- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY EIGHT HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
KANSAS ONE-CALL.....687-2470
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
COX COMMUNICATIONS.....262-0661
KANSAS GAS SERVICE.....832-3122
AQUILA NETWORKS.....941-1608
WESTAR ENERGY.....261-6251
AT&T.....1-800-870-8390
CITY OF WICHITA WATER DEPARTMENT.....268-4555
CITY OF WICHITA SEWER DEPARTMENT.....268-4555
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION. SEE SPECIAL NOTE 5, SHEET 2.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK, SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED.
- ANY EXCESS EXCAVATION OR 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 US 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.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING SIGNS, FENCES, MAILBOXES, ETC. CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET. WHERE EXISTING ENTRANCE PIPES AND DRAINAGE PIPES CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND SALVAGED FOR THE OWNER, OR DISPOSED OF IN ACCORDANCE WITH GENERAL NOTE NUMBER 7. THE REMOVAL OF AND REPLACEMENT OF ALL THE FOREMENTIONED ITEMS, SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION."
- POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST AVAILABLE INFORMATION. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLE MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES AND CABLES. ANY UTILITIES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- UNDERGROUND UTILITY SERVICES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR THEIR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATION. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING STORM WATER SEWER AT THE CONNECTIONS TO VERIFY PIPE SIZE, PIPE TYPE, AND THE HORIZONTAL AND VERTICAL LOCATIONS. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY PLAN MODIFICATIONS MAY BE MADE.
- THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, AND CLASS OF EXISTING STORM WATER LINES PRIOR TO CONSTRUCTION. EXISTING STORM WATER LINE LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED AND APPROVED BY THE CITY ENGINEER. PROVISIONS FOR AND INSTALLATION OF PIPE ADAPTERS, SHORT SECTIONS OF PIPE, COUPLERS, AND CONC. COLLARS SHALL BE CONSIDERED AS SUBSIDIARY TO OTHER PAY ITEMS OF WORK.
- 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 PERFORMED WITHOUT INSPECTION IS SUBJECT TO BE UNCOVERED FOR INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING EXISTING PROPERTY IRONS AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS OR RIGHT-OF-WAY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS OR MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO SITE CLEARING & RESTORATION.
- NOTIFY WESTAR ENERGY TO ARRANGE FOR APPROPRIATE SAFETY PRECAUTIONS BEFORE WORKING WITHIN 10 FEET OF AN OVERHEAD HIGH VOLTAGE LINE IN ACCORDANCE WITH THE OVERHEAD POWER LINE ACCIDENT PREVENTION ACT.
- EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY CONSTRUCTION EASEMENTS OR RIGHT-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
- ALL DISTURBED AREAS SHALL BE GRADED WITH TOPSOIL, MULCHED AND PLANTED AS SHOWN IN THE PLANS AND IN CONFORMANCE WITH LATEST "CITY OF WICHITA STANDARD SPECIFICATIONS". ALL AREAS DISTURBED IN LOT 18, SHALL BE REPLACED WITH SOD. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING AND RESTORATION".
- 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 THE PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE APPROVED BY THE ENGINEER. PAVEMENT MARKINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN CONFORMANCE WITH LATEST "CITY OF WICHITA STANDARD SPECIFICATIONS". FULL TRAFFIC MAY NOT BE RESTORED (AND SUBSTANTIAL PROJECT COMPLETION ACHIEVED) UNTIL ALL PAVEMENT MARKINGS ARE IN PLACE. SHOULD CONSTRUCTION TIMING BE SUCH THAT RESTORATION OF TRAFFIC BECOMES NECESSARY DURING TEMPERATURES PROHIBITING THE INSTALLATION OF THERMOPLASTIC MARKINGS, THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY MARKINGS UNTIL SUCH TIME THAT THERMOPLASTIC MARKINGS MAY BE PROPERLY INSTALLED. EXCEPT FOR THE MATERIAL REQUIREMENT, TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED EQUIVALENT, IN EVERY MANNER (I.E. DIMENSION, FREQUENCY, SPACING, ETC.), TO THE PERMANENT MARKING LAYOUT. THE COST FOR TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM FOR "PAVEMENT MARKINGS."
- 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 ADJUTS AN EXISTING SURFACE COURSE OR PAVEMENT IS REQUIRED, WHEN SUCH SAW CUTS ARE WITHIN THREE (3) 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 WILL BE CONSIDERED SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.
- ANY STREET CURBS OR OTHER EXISTING PAVING IMPROVEMENTS, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND TO THE NEAREST EXISTING CONSTRUCTION POINT OR TO LIMITS APPROVED BY THE CITY ENGINEER.
- ALL IRRIGATION, LANDSCAPING, AND FENCING DISTURBED DURING CONSTRUCTION SHALL BE REMOVED AND RESET IN KIND, BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT HOURS TO THE AFFECTED PROPERTY OWNERS PRIOR TO BEGINNING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
- THE CONTRACTOR SHALL MINIMIZE SEWER SERVICE INTERRUPTIONS TO PROPERTY OWNERS WITHIN THE PROJECT AREA. ANY PROPERTY OWNERS WHO WILL HAVE SERVICE INTERRUPTED SHALL BE GIVEN WRITTEN NOTICE AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. NO PROPERTY OWNERS SHALL HAVE THEIR WATER SERVICE INTERRUPTED FOR MORE THAN A FOUR (4) HOUR PERIOD.
- THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, OR ANY OTHER DRAINAGE FEATURE. THE CITY OF WICHITA STANDARD DETAILS FOR SOIL EROSION BMP'S ARE A PART OF THIS SET OF PLANS AND ARE INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF SOIL EROSION PROTECTION WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BID THE PROJECT ACCORDINGLY. BMP'S SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY SOIL EROSION BMP'S DAMAGED OR DESTROYED DURING THE CONSTRUCTION PROCESS.
- THE CONTRACTOR SHALL MAINTAIN AND RESTORE ALL RIGHT-OF-WAY DISTURBED BY THIS PROJECT IN ACCORDANCE WITH CITY OF WICHITA ADMINISTRATIVE REGULATION 6.5.

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STORM SEWER HORIZONTAL CONTROL TABLE:

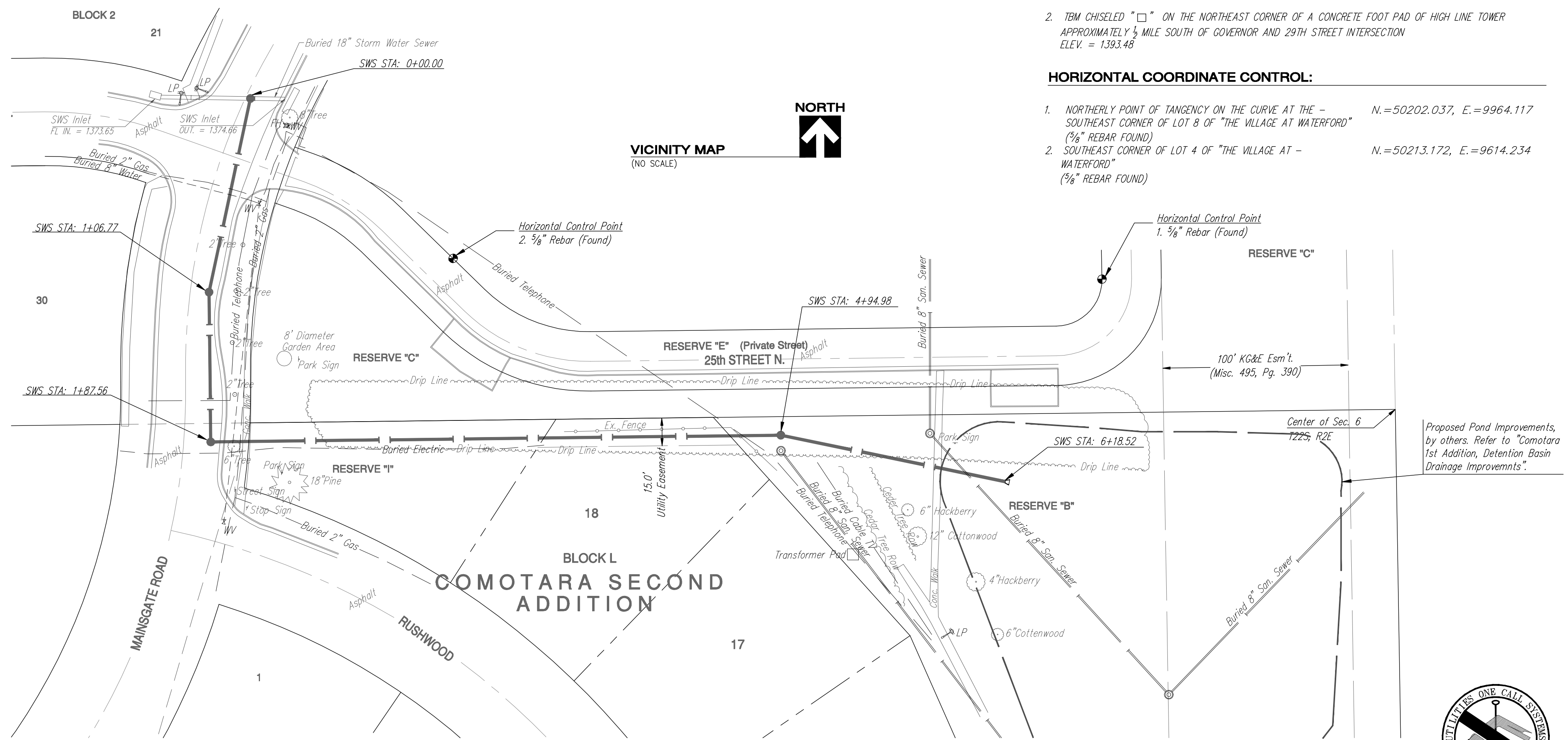
SWS CL. STA.	DESCRIPTION	NORTHING	EASTING
0+00.00	Proposed MH/Connection	50299.49	9504.86
1+06.77	Proposed MH	50195.08	9482.54
1+87.56	Proposed MH	50114.30	9483.51
4+94.98	Proposed MH	50117.96	9790.91
6+18.52	Proposed End Section	50094.21	9905.65

BENCHMARK:

- CITY OF WICHITA BENCHMARK LOCATED AT THE NORTHWEST CORNER OF RCBC (TOP OF WALL) APPROXIMATELY 100 FEET SOUTH OF 29TH ON GOVERNOR. ELEV. = 1370.86
- TBM CHISELED "□" ON THE NORTHEAST CORNER OF A CONCRETE FOOT PAD OF HIGH LINE TOWER APPROXIMATELY 1/2 MILE SOUTH OF GOVERNOR AND 29TH STREET INTERSECTION. ELEV. = 1393.48

HORIZONTAL COORDINATE CONTROL:

- NORTHERLY POINT OF TANGENCY ON THE CURVE AT THE - SOUTHEAST CORNER OF LOT 8 OF "THE VILLAGE AT WATERFORD" (9% REBAR FOUND) N.=50202.037, E.=9964.117
- SOUTHEAST CORNER OF LOT 4 OF "THE VILLAGE AT - WATERFORD" (9% REBAR FOUND) N.=50213.172, E.=9614.234



VICINITY MAP
(NO SCALE)



JANUARY 2010

PLANS PREPARED BY:

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UTILITY NOTES:
VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES, CALL 1-800-344-7233.