

SAVED 4/16/2024 10:39:50 PM BY TREVOR KAUFMAN  
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 U:\WICHITA-CIVIL\2023\237043\014\2DPD3\_ PLANS\030\237043-014 G-101 SURVEY & GENERAL NOTES.DWG

**CONTROL SUMMARY**

HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83  
 KANSAS SOUTH ZONE  
 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED  
 COORDINATE SYSTEM  
 VERTICAL DATUM: NAVD 88  
 DISTANCE UNITS: US SURVEY FEET

**BENCH MARKS**

**BM-301**  
 ELEV: 1,301.16 (NAVD 88)  
 SQUARE CUT CENTER OF CURB INLET ON THE SOUTH SIDE OF  
 MUSEUM BOULEVARD, EAST OF THE  
 ROUND ABOUT.

**BM-302**  
 ELEV: 1,302.66 (NAVD 88)  
 SQUARE CUT ON BACK OF CURB THAT MEETS UP WITH EAST-WEST  
 SIDEWALK EAST END OF PARKING  
 LOT SOUTH OF BOTANICA.

**BM-303**  
 ELEV: 1,302.05 (NAVD 88)  
 T-POST FLUSH WITH THE GROUND SOUTH OF NORTH LIFT STATION  
 EAST OF NORTH-SOUTH SIDEWALK  
 NORTH OF PUBLIC WORKOUT STATION.

**BM-304**  
 ELEV: 1,302.14 (NAVD 88)  
 SQUARE CUT ON BACK OF CURB WEST END OF CENTER ISLAND OF  
 THE ENTRANCE TO WEST RIVER  
 PLAZA WEST OF MCLEAN BOULEVARD

**BM-305**  
 ELEV: 1,302.94 (NAVD 88)  
 SQUARE CUT ON SOUTHEAST CORNER OF CURB INLET NORTH OF  
 NORTH CURB RETURN ON WEST SIDE  
 OF EDWARDS AVE AND NORTH OF ELM STREET

**UTILITY ONE CALL CONTACT NUMBERS:**

MEMBERS NOTIFIED	(PHONE NUMBER):
WICHITA WATER	316-268-4555
KANSAS GAS SERVICE	800-794-4780
KANSAS FIBER NETWORK (KFN)	800-778-9140
EVERGY	785-249-1948
COX COMMUNICATIONS	800-778-9140
BLACK HILLS ENERGY	800-778-9140
ATT DISTRIBUTION	800-778-9140

**HORIZONTAL CONTROL POINTS**

**CP-201**  
 N: 1,688,611.8540 E: 1,641,644.2722  
 1/2" BAR WITH BLUE CP CAP  
 1. 2.23' S TO BACK OF CURB  
 2. 25.41' NE TO 10" TREE  
 3. 30.42' NNW TO 10" TREE  
 4. 100.13' E TO SQUARE CUT ON CURB INLET

**CP-202**  
 N: 1,688,515.4729 E: 1,641,067.6690  
 1/2" BAR WITH BLUE CP CAP  
 1. 32.91' WNW TO CENTER OF TELEPHONE HANDHOLE  
 2. 2.95' S TO NORTH EDGE OF SIDEWALK EAST -WEST  
 3. 20.58' N TO 36" TREE

**CP-203**  
 N: 1,688,575.1964 E: 1,640,493.7423  
 1/2" BAR WITH BLUE CP CAP  
 1. 14.51' SW TO SQUARE CUT ON CORNER OF SIDEWALK AND  
 BACK OF CURB  
 2. 33.06' N TO SOUTH EDGE OF ASPHALT ROAD.  
 3. 101.2' E TO CENTERLINE OF DRIVE SOUTH  
 4. 3.89' S TO NORTH EDGE OF SIDEWALK

**CP-204**  
 N: 1,688,771.4874 E: 1,639,950.8920  
 1/2" BAR WITH BLUE CP CAP  
 1. 3.69' S TO NORTH EDGE OF SIDEWALK EAST-WEST  
 2. 16.66' N TO SOUTH EDGE OF ASPHALT ROAD EAST-WEST  
 3. 63.93' ESE TO LIGHT POLE  
 4. 37.23' WNW TO LIGHT POLE

**CP-205**  
 N: 1,689,023.4349 E: 1,639,486.1840  
 1/2" BAR WITH BLUE CP CAP  
 1. ON EAST HIGH BANK OF RIVER  
 2. 1' E TO ASPHALT SIDEWALK NORTH-SOUTH  
 3. 106.64' SE TO EAST END OF SIDEWALK BRIDGE WEST

**CP-206**  
 N: 1,689,375.3005 E: 1,639,270.1679  
 1/2" BAR WITH BLUE CP CAP  
 1. 77' N TO CENTER OF SIDEWALK ENTRANCE FROM ROAD  
 2. 7.56' E TO WEST EDGE OF ASPHALT SIDEWALK  
 3. 19' W TO EAST HIGH BANK OF RIVER

**CP-207**  
 N: 1,689,677.1713 E: 1,639,105.4514  
 1/2" BAR WITH BLUE CP CAP  
 1. 39.23' SW TO WEST END OF 24" RCP  
 2. 110.16' ESE TO CENTER OF AREA INLET  
 3. 2.69' W TO EAST EDGE OF ASPHALT SIDEWALK  
 4. 129.84' N TO ELECTRIC MANHOLE

**CP-208**  
 N: 1,689,751.0089 E: 1,638,595.5927  
 1/2" BAR WITH BLUE CP CAP  
 1. 1.53' S TO NORTH CORNER OF CURB INLET  
 2. 6.43' SW TO WEST CORNER OF CURB INLET  
 3. 7.43' W TO BACK OF CURB  
 4. 1.15' E TO WEST EDGE OF CONCRETE SIDEWALK

**CP-209**  
 N: 1,689,393.9799 E: 1,638,210.9498  
 1/2" BAR WITH BLUE CP CAP  
 1. 19.68' S TO BACK OF CURB  
 2. 45.22' N TO BACK OF CURB  
 3. 54.52' W TO EAST EDGE OF SIDEWALK  
 4. 86.72' E TO NORTH CURB RETURN

**CIVIL GENERAL NOTES:**

- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS, UNLESS OTHERWISE INCLUDED IN THE CONTRACT DOCUMENTS.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316)-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:  
 EMERGENCY DISPATCH: 911  
 COX COMMUNICATIONS: 888-249-3530  
 EVERGY: 800-383-1183  
 AT&T: 800-286-8313  
 KANSAS GAS SERVICE: 888-482-4950  
 WICHITA WATER: 316-268-4555  
 BLACK HILLS ENERGY: 800-778-9140  
 KANSAS FIBER NETWORK (KFN): 316-712-6030
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF SEVEN (7) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE.
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH HORIZONTAL AND VERTICAL CONTROL POINTS AND VERIFY THEIR ACCURACY.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ANY BURIED LINES LOCATED IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE IN POTENTIAL CONFLICT WITH THE PROPOSED IMPROVEMENTS. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS AND SECTION CORNERS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS AND SECTION CORNERS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. SUCH IRONS AND SECTION CORNERS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

- EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
- THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL 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, FLOODWAYS, 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.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, THIS WORK SHALL BE COORDINATED WITH THE ENGINEER. TREE TRIMMING/REMOVAL SHALL BE COMPLETED IN ACCORDANCE WITH U.S FISH AND WILDLIFE SERVICE AND KANSAS DEPARTMENT OF WILDLIFE AND PARKS RESTRICTIONS.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE SHEET CG101. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
- RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.

- 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, MULCHING, AND/OR RE-SEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO "SITE RESTORATION".
- 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 SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING. STAKING AND BENCH MARKS DESTROYED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO ADJACENT FACILITIES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY OWNER.
- WRITTEN REQUEST TO THE OWNER WILL BE REQUIRED 72 HOURS PRIOR TO A SCHEDULED UTILITY OUTAGE. THE FIRE DEPARTMENT MUST BE NOTIFIED OF ANY FIRE HYDRANTS OR WATER MAINS TAKEN OUT OF SERVICE.
- CONTRACTOR SHALL PROVIDE TEMPORARY SAFETY FENCE AROUND THE PERIMETER OF THE WORK AREA TO PREVENT PEDESTRIAN TRAFFIC INTO THE AREA.

**CONSTRUCTION SEQUENCE**

- FULLY REMOVE PAVEMENT PER THE DEMOLITION PLAN.
- EXCAVATE ALL MATERIAL FROM ON TOP OF THE TWO RESERVOIRS TO FULLY EXPOSE THE STRUCTURE TOPS.
- INSTALL TANK ROOF MEMBRANE SYSTEM ON BOTH RESERVOIRS.
- INSTALL FILL AND COMPLETE GRADING PER THE GRADING PLAN.

**LOADING LIMITATIONS**

- THE CONTRACTOR SHALL NOT OVERSTRESS THE STRUCTURAL CONCRETE WITH THE EXCAVATION EQUIPMENT.
- THE CONCRETE STRENGTH MAY HAVE DEGRADED OVERTIME WHEN CONTINUOUSLY EXPOSED TO TREATED WATER IN THE RESERVOIRS. THE UNDERSIDE OF THE CONCRETE LID OF BOTH RESERVOIRS WILL BE INSPECTED BY THE CITY FOR SPALLING CONCRETE AND EXPOSED REINFORCEMENT PRIOR TO THE EXECUTION OF DEMOLITION CONTRACT.
- 7.5 MG RESERVOIR (1971) INFO**  
 - THE RESERVOIR LID IS 18" THICK REINFORCED 2-WAY SLAB CONCRETE WITH UP TO 3 FT OF SOIL SURCHARGE (120 PCF).  
 - INTERNAL COLUMN GRID IS 16 FT O.C. IN BOTH DIRECTIONS  
 - CONCRETE STRENGTH IS ASSUMED TO BE 3000 PSI CONCRETE WITH A-615 GRADE 40 REINFORCEMENT.  
 - THE MAXIMUM WHEEL LOADS FOR THE 7.5 MG RESERVOIR SHALL NOT EXCEED CURRENT HS-5 LOADING CONDITIONS (4,000 LB MAX WHEEL LOAD) WHILE MAINTAINING 16 FT. SEPARATION BETWEEN EQUIPMENT. THE CAPACITY OF THE LID COULD NOT BE VERIFIED BY ANALYSIS DUE TO THE UNRELIABILITY OF REINFORCEMENT NOTATIONS IN THE AS-BUILT DRAWINGS.
- 10.6 MG RESERVOIR (1996) INFO**  
 - THE RESERVOIR LID IS 10" THICK REINFORCED 2-WAY SLAB CONCRETE WITH UP TO 3 FT OF SOIL SURCHARGE (120 PCF).  
 - INTERNAL COLUMN GRID IS 22 FT O.C. IN BOTH DIRECTIONS  
 - ORIGINAL CONSTRUCTION DRAWINGS NOTE THE CONCRETE STRENGTH AS 4000 PSI WITH A-615 GRADE 60 REINFORCEMENT.  
 - PER EXISTING CONSTRUCTION DRAWINGS, MAXIMUM WHEEL LOADS FOR THE 10.6 MG RESERVOIR WAS LIMITED TO 16,000 LBS AND 75 PSF UNIFORM LIVE LOAD. FOR ADDITIONAL FACTOR OF SAFETY, REDUCE MAXIMUM WHEEL LOADS TO 8000 LBS WHILE MAINTAINING 22 FT. SEPARATION BETWEEN EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE A SUBMITTAL WITH ALL EQUIPMENT THAT WILL BE UTILIZED ON TOP OF THE RESERVOIRS. THE SUBMITTAL SHALL INCLUDE THE WHEEL LOAD OF EACH PIECE OF EQUIPMENT.
- VIBRATORY METHODS OF REMOVAL AND COMPACTION SHALL NOT BE USED ON TOP OF THE RESERVOIRS.



**COW HESS RESERVOIR  
 PARKING LOT REMOVAL**  
  
**1401 MUSEUM BLVD.  
 WICHITA KS, 67203**

Issue:	

JOB NO.	237043-014
DATE	APRIL 5, 2024
PM	TBK
DESIGNED BY	DSB
DRAWN BY	CSS
CHECKED BY	DRC

SURVEY & GENERAL NOTES

**G-101**