EARTHWORK SUMMARY

EARTHWORK CALCULATION	
EXCAVATION	10,500 C.Y.
COMPACTED FILL (95% DENSITY)	2,000 C.Y.

NOTE: 20% HAS BEEN ADDED TO FILL QUANTITIES TO ALLOW FOR COMPACTION AND HANDLING.

POND EXPANSION AND SHORELINE PROTECTION

WATERFRONT ADDITION

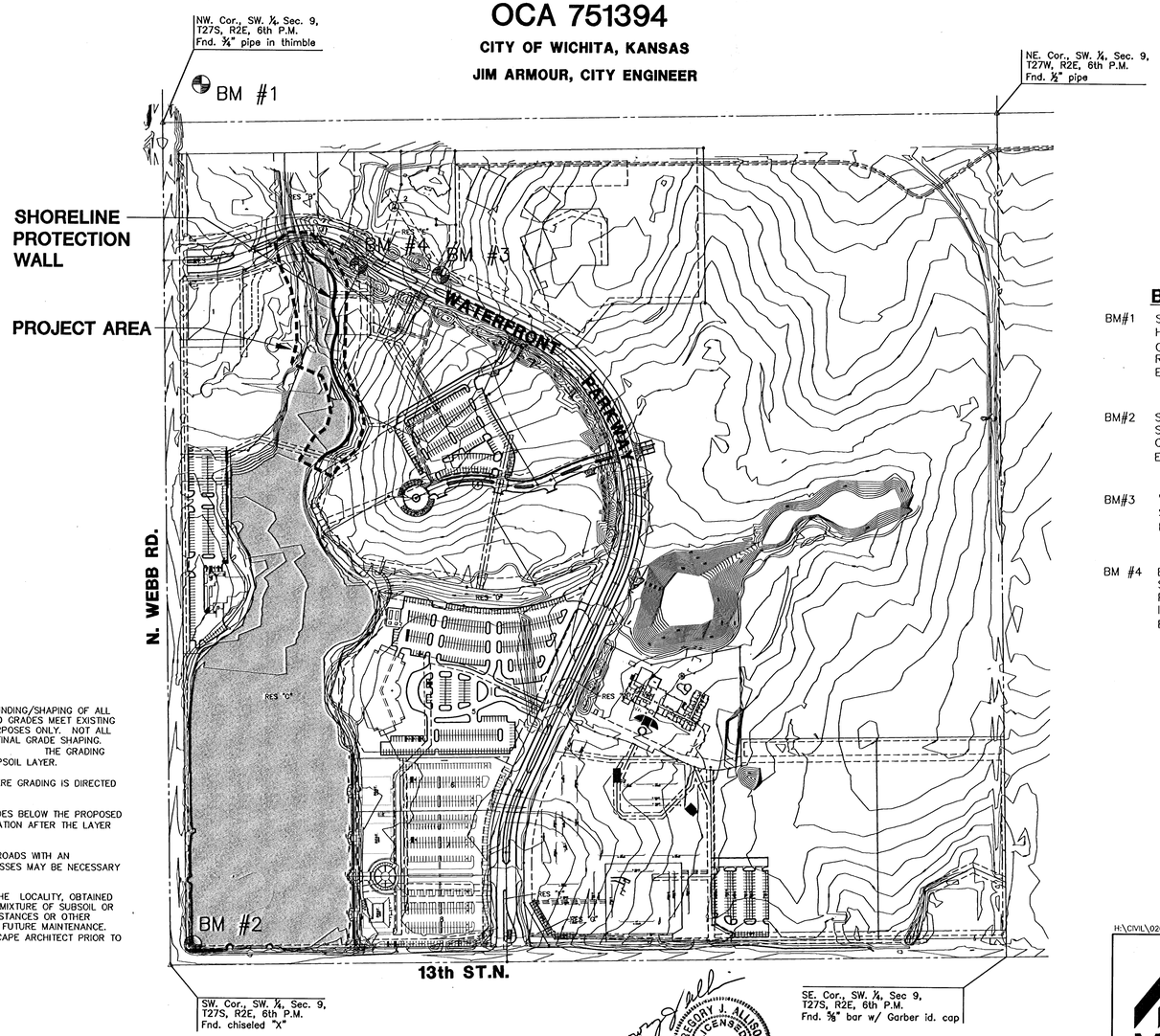
SWD #250

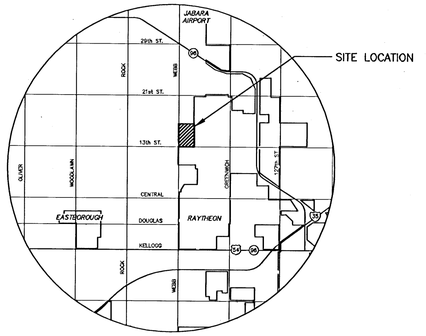
PROJECT NO 468-83950

OCA 751394

CITY OF WICHITA, KANSAS

JIM ARMOUR, CITY ENGINEER





LOCATION MAP

BENCHMARKS

BM#1 SQUARE CUT SE. CORNER HEADWALL 44' N. AND 42' E. OF W. ¼ COR., SEC. 9, T27S, R2E
ELEV. = 192.73'(CITY DATUM)
1380.13' NGVD

BM#2 SQUARE CUT SW. CORNER SIGNAL LIGHT POLE BASE NE. CORNER WEBB AND 13TH.
ELEV. = 185.945'(CITY DATUM)
1373.345' NGVD

BM#3 "□" CUT ON T.C. AT THE S.E. COR. OF LOT 2, BLK 2
ELEV. = 1376.72' (CITY DATUM)
189.32' NGVD

BM #4 BRASS DISC AT T.C. ON THE SOUTH SIDE OF WATERFRONT PARKWAY AT THE SECOND INLET EAST OF THE BRIDGE
ELEV. = 1375.01 (187.61 C.O.W.)

N

SCALE: 1" = 200'

LEGEND

• IRON

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING & SHORELINE PROTECTION PLAN
3	SHORELINE PROTECTION DETAILS
4	GABION MATTRESS & TOEWALL DETAILS
5	GABION MATTRESS ELEVATION
6	EROSION CONTROL PLAN
7–10	BMP DETAILS
11	FINAL PLAT

GENERAL NOTES

1. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
2. 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.
3. TREES TO BE REMOVED ARE MARKED ⊗ OR WITH A HATCH PATTERN ▨ AS SHOWN ON PLANS. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
4. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
5. 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 1-800-344-7233

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

COX COMMUNICATIONS (CABLE)	262-0661
WESTAR (ELECTRIC)	261-6512
KANSAS GAS SERVICE (GAS)	832-3101
SBC (TELEPHONE)	800-870-8390
CITY OF WICHITA WATER & SEWER	262-6000
AQUILA (GAS)	946-0096

6. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
7. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL 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 DIPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD 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 WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

GENERAL GRADING NOTES

1. THIS IS DESIGN GRADING. ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. SURVEY STAKES FOR POND GRADING ARE FOR GENERAL GRADING PURPOSES ONLY. NOT ALL SLOPES ARE CONSTANT AND THEREFORE THE GRADING PLANS SHALL BE REFERRED TO FOR FINAL GRADE SHAPING. THE GRADING SHALL BE APPROVED BY MKEC'S LANDSCAPE ARCHITECT PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
2. A 6" LAYER OF TOPSOIL SHALL BE STRIPPED IN AREAS OF CUT AND FILL. IN CASES WHERE GRADING IS DIRECTED UNDER TREE DRIP LINES NO TOPSOIL STRIPPING SHALL BE PERFORMED WITHIN THESE AREAS.
3. TOPSOIL SHALL BE REPLACED AT A DEPTH OF 12" IN ALL DISTURBED AREAS (EXCEPT GRADES BELOW THE PROPOSED NORMAL POOL ELEVATION WITHIN PONDS). THE FINISHED GRADE INDICATES THE SURFACE ELEVATION AFTER THE LAYER OF TOPSOIL HAS BEEN PLACED.
4. AS THE PROJECT NEARS COMPLETION, THE CONTRACTOR SHALL RIP (SCARIFY) ALL HAUL ROADS WITH AN AGRICULTURAL IMPLEMENT INTENDED FOR SUCH PURPOSES TO A DEPTH OF 18". MULTIPLE PASSES MAY BE NECESSARY TO THOROUGHLY ALEVIATE COMPACTION.
5. WHERE OFFSITE TOPSOIL IS NEEDED, IT SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL pH RANGE SHALL BE 5.5 TO 7.0. TOPSOIL SHALL BE APPROVED BY MKEC'S LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.
6. CLAY LINER SHALL BE SUBSIDIARY TO THE BID ITEM "COMPACTED FILL".
7. ALL EXCESS EXCAVATION SHALL BE REMOVED FROM SITE.

GREGORY J. ALLISON LICENSED 11159 KANSAS PROFESSIONAL ENGINEER

8/17/05

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MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

WATERFRONT ADDITION
POND EXPANSION & SHORELINE PROTECTION
PROJECT NAME

TITLE SHEET
SHEET TITLE

DBG	*DBG*	*JAG*
DESIGN BY:	DRAWN BY:	CHECKED BY:
AUGUST 2005	*SW_TITLE*	*1 / 11*
DATE	DRAWING NAME	SHEET / OF