CHANNEL PLANS FOR

WICHITA DRAINAGE CANAL

PHASE 1 - ENGLISH THRU 10TH STREET NORTH

THE CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

PROJECT NO. 468-82950

MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX CODE 660779

GENERAL NOTES

1. 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.

2. ALL VEGETATION/TREES IN PROPOSED CHANNEL, BETWEEN TOP OF CUT ON ONE SIDE AND TOP OF CUT ON THE OTHER SIDE, SHALL BE REMOVED.

3. ALL CONCRETE SHALL BE STANDARD CITY OF WICHITA PAVING MIX, UNLESS OTHERWISE NOTED ON THESE PLANS OR IN THE SPECIFICATIONS.

4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLLY 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 DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS, OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

5. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES BEFORE STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	1-800-344-7233 OR 687-2470 (LOCAL WICHITA)
MULTIMEDIA CABLEVISION	262-4270
KANSAS GAS SERVICE	832-3169 OR 832-3168
KGE (ELECTRIC)	383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7590, WAIT FOR AUTOMATED ANSWER, PRESS ## TO TALK WITH SOMEONE
CITY OF WICHITA WATER & SEWER	268-4908/ 4940
CITY OF WICHITA STORM WATER UTILITY	268-4498/ 4072
PEOPLE NATURAL GAS	1-800-303-0357
USD 259	833-2100

6. 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 DISPOSAL 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 DEPARTMENT OF AGRICULTURE, DIVISION OF WATER RESOURCES PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. ARMY, CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

7. ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON CITY OF WICHITA DATUM.

   WICHITA DATUM = N.G.V.D. - 1187.40

8. ALL ADJACENT BUILDINGS, STRUCTURES, PARKING LOTS, DRIVES, STREET PAVEMENT, AND APPURTENANCES OTHER THAN SHOWN ON THESE PLANS FOR REPLACEMENT SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ITEMS DAMAGED BEYOND CONSTRUCTION LIMITS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

9. WHERE STORM SEWER PIPE IS BEING INSTALLED, FOAM GASKET, OMNIFLEX GASKET, OR AN APPROVED EQUAL CLOSED CELL GASKET SHALL BE USED INSTEAD OF BUTYL RUBBER SEALANT AT ALL RCP AND RCB JOINTS.

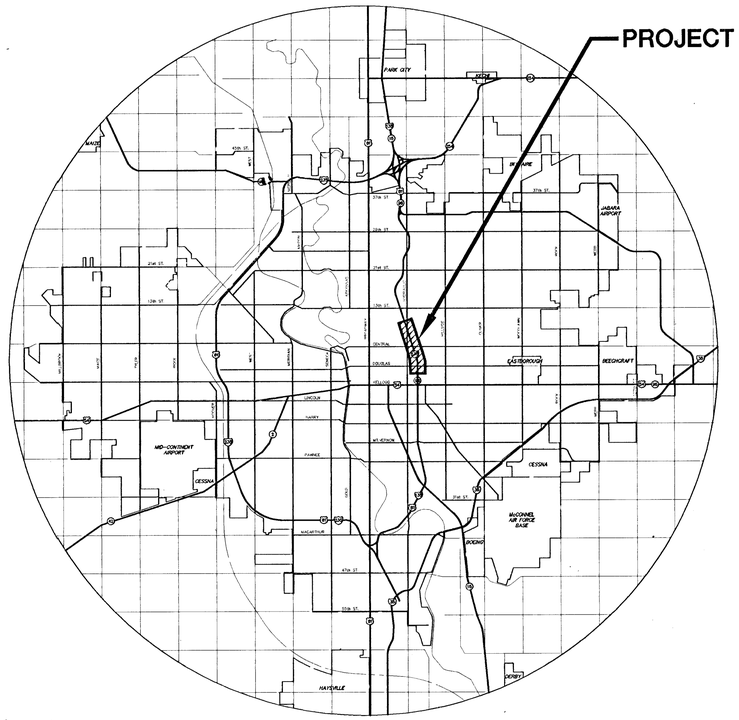
10. THE CONTRACTOR SHALL WORK IN A SYSTEMATIC AND EXPEDIENT MANNER TO PREVENT WASHING AND EROSION DURING THE CONSTRUCTION PROCESS. AS EACH SEGMENT BETWEEN CROSS STREETS IS BROUGHT TO FINAL GRADE, THE CONTRACTOR SHALL SEED AND INSTALL THE REQUIRED EROSION PROTECTION MAT. IT SHALL BE NOTED THAT THERE IS CONTINUAL FLOW IN THE WICHITA DRAINAGE CANAL, AND THE CONTRACTOR MAY NEED TO STABILIZE THE CHANNEL BOTTOM UNDER THE GABIONS AND MATTRESSES AS PER CITY OF WICHITA PIPE INSTALLATION SPECIFICATIONS, SO THAT THE GABIONS AND MATTRESSES CAN BE INSTALLED TO GRADE.

11. THE CONTRACTOR SHALL SCHEDULE THE WORK, SO THAT, ALL DISTURBED AREAS CAN BE PLANTED TO BERMUDA GRASS DURING THE NORMAL PLANTING DATES FOR BERMUDA GRASS. ADDITIONAL AREAS SHALL NOT BE DISTURBED IF THEY CANNOT BE COMPLETED DURING THE PLANTING TIME TABLE.

12. THIS PROJECT WILL REQUIRE A NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND COMPLIANCE WITH ALL COW, KDHE AND EPA REQUIREMENTS. THE CITY OF WICHITA HAS FILED A NPDES NOTICE OF INTENT (NOI) WITH KDHE. THE CONTRACTOR WILL IMPLEMENT THE BEST MANAGEMENT PRACTICES (BMP) TO MINIMIZE EROSION/SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE AS THE CONTRACTOR PROCEEDS WITH THE PROJECT. THE CONTRACTOR'S BMP PLAN SHALL BE SUBMITTED TO C.O.W. FOR REVIEW AND APPROVAL. THIS PLAN SHALL INCLUDE, BUT NOT LIMITED TO:

    1. HOW THE CONTRACTOR WILL CONTROL SLOPE EROSION BEFORE AND AFTER SEEDING AND PLACEMENT OF TURF REINFORCING MAT.
    2. THE CONTRACTOR SHALL PROVIDE PLACES FOR CONCRETE TRUCKS TO WASHOUT.
    3. ALL CONSTRUCTION ENTRANCES ONTO STREETS SHALL BE ROCKED FOR WASHDOWN PADS.
    4. STREETS SHALL BE CLEANED DAILY OF ALL MUD/DEBRIS DROPPED ON STREETS FROM THIS PROJECT.

13. NOTE: EROSION MAT MATERIAL CHANGES AT NORTH SIDE OF 9th STREET NORTH BRIDGE.



LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL CHANNEL SECTIONS
3	PLAN – STA. 0+00 TO STA. 5+50
4	PROFILE – STA. 0+00 TO STA. 11+50
5	PLAN – STA. 5+50 TO STA. 11+50
6	PLAN – STA. 11+50 TO STA. 17+50
7	PROFILE – STA. 12+00 TO STA. 23+50
8	PLAN – STA. 17+50 TO STA. 23+50
9	PLAN – STA. 23+50 TO STA. 29+50
10	PROFILE– STA. 24+00 TO STA. 35+50
11	PLAN – STA. 29+50 TO STA. 35+50
12	PLAN – STA. 35+50 TO STA. 41+50
13	PROFILE – STA. 36+00 TO STA. 48+00
14	PLAN – STA. 41+50 TO STA. 47+50
15	PLAN – STA. 47+50 TO STA. 53+50
16	PROFILE – STA. 48+00 TO STA. 60+00
17	PLAN – STA. 53+50 TO STA. 59+50
18	PLAN – STA. 59+50 TO STA. 65+50
19	PROFILE– STA. 60+00 TO STA. 72+00
20	PLAN – STA. 65+50 TO STA. 71+50
21	PLAN – 3RD STREET NORTH CUL-DE-SAC
21A	3RD STREET NORTH CUL-DE-SAC DETAILS
22	PEDESTRIAN BRIDGE DETAILS
23	TYPE "P" MANHOLE DETAILS
24	REINFORCED CONCRETE MANHOLE DETAILS
25	EROSION CONTROL MAT DETAILS
26	OVERHEAD DRAIN DETAILS
27	BRIDGE SLOPE PAVING DETAILS
28	ADDITIONAL SLOPE PAVING DETAILS
29-31	HEADWALL DETAILS AND SECTIONS
32	9'x3' RCB MANHOLE
33	TYPICAL WINGWALL/HEADWALL REINFORCING
34	9' WIDE CHANNEL WITH WALLS
35-46	HORIZONTAL LAYOUTS
47-64	CROSS SECTIONS
LP-1 THRU LP-11	LANDSCAPE PLANS
SD-1	SITE DETAILS

BENCHMARKS

BM #1 "□" CUT ON THE TOP OF ABUTMENT FOOTING AT THE S.E. CORNER OF THE SOUTHBOUND I-135 OVERHEAD STRUCTURE. C.O.W. ELEV. = 109.62

BM #2 "□" CUT ON THE EAST SIDE OF CONCRETE POWER POLE BASE, STA. 4+00, RIGHT BANK. C.O.W. ELEV. = 108.57

BM #3 THE TOP OF THE SOUTHWEST BOLT OF A BIKE PATH LIGHT POLE, STA. 10+60, RIGHT BANK. C.O.W. ELEV. = 109.91

BM #4 C.O.W. DISK IN THE SIDEWALK AT THE NORTHWEST CORNER OF THE 1ST STREET NORTH BRIDGE. C.O.W. ELEV. = 112.19

BM #5 C.O.W. DISK IN THE SIDEWALK AT THE NORTHWEST CORNER OF THE 2ND STREET NORTH BRIDGE. C.O.W. ELEV. = 113.18

BM #6 "□" CUT ON THE SOUTHWEST CORNER OF A CONCRETE VAULT, STA. 30+55, LEFT BANK. C.O.W. ELEV. = 112.87

BM #7 C.O.W. DISK IN THE NORTHEAST CORNER OF THE BRIDGE MEDIAN ALONG CENTRAL. C.O.W. ELEV. = 115.92

BM #8 "□" CUT ON THE SOUTHEAST CORNER OF A OVERHEAD DRAIN BOX, SOUTH SIDE OF THE 6TH COLUMN SOUTH OF BURLINGTON NORTHERN RAILROAD, STA. 42+90, RIGHT BANK. C.O.W. ELEV. = 112.88

BM #9 "□" CUT ON THE NORTHWEST CORNER OF THE WEST ABUTMENT OF THE BURLINGTON NORTHERN BRIDGE. C.O.W. ELEV. = 114.98

BM #10 "□" CUT ON THE NORTH END OF NORTHWEST WINGWALL OF THE MURDOCK BRIDGE. C.O.W. ELEV. = 115.84

BM #11 "□" CUT ON THE NORTHEAST CORNER OF A OVERHEAD DRAIN BOX, AT THE 8TH COLUMN SOUTH OF 9TH STREET NORTH, STA. 57+20, RIGHT BANK. C.O.W. ELEV. = 113.61

BM #12 "□" CUT ON THE NORTHEAST CORNER OF THE SIDEWALK, AT THE NORTH-EAST CORNER OF THE 9TH STREET NORTH BRIDGE. C.O.W. ELEV. = 120.00

BM #13 "+" CUT ON THE END OF THE SOUTHEAST WINGWALL OF THE 10TH STREET NORTH BRIDGE. C.O.W. ELEV. = 117.57

NEIL JEDNORALSKI LICENSED 497 KANSAS PROFESSIONAL ENGINEER 25 May 99

30 April 2000

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

AREA "K" PART 2 - PHASE 1
PROJECT NAME

WICHITA DRAINAGE CANAL PLAN
SHEET TITLE

JNJ/KJS/DCH/PAF	DLM/MLW	JNJ
DESIGN BY:	DRAWN BY:	CHECKED BY:
MAY 1999	94011	1 / 64
DATE	JOB NO.	SHEET/OF

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