SHEET NO.	TOTAL SHEETS
2	50

P.O.T. #4 Sta. 8+75.16
1. Set P.K. Nail
2. Chis. "•" on Top of Curb 17.17' S.
3. Chis. "•" on Top of Curb 45.59' N.W.
4. Chis. "•" on Top of Curb 44.82' N.

P.O.T. #3 Sta. 12+99.88
1. Set P.K. Nail
2. P.P. 63.88' S.S.W.
3. Chis. "•" on Sidewalk 33.54' S.S.W.
4. Chis. "•" on Top of Curb 28.61' N.E.

P.V.C. Sta. 9+97.38 Elev. 1306.69
P.V.I. Sta. 11+22.38 Elev. 1312.54
P.V.T. Sta. 12+47.38 Elev. 1306.74
+4.68% -4.64%
250' V.C.

PROPOSED GRADE

245'-3"
+1.28% -2.88%
45'-1½" 50'-0" 55'-0" 50'-0" 45'-1½"

Match
Approach Slab Begin Sta. 9+68.53 Elev. 1306.40
℄ Abutment #1 Expansion Joint Sta. 9+99.76 Elev. 1307.20 ** Elev. 1306.80 **
℄ Pier #1 Sta. 10+44.88 Elev. 1308.66 * Elev. 1308.49 **
℄ Pier #2 Sta. 10+94.88 Elev. 1309.62 * Elev. 1309.48 **
℄ Pier #3 Sta. 11+49.88 Elev. 1309.72 * Elev. 1309.49 **
℄ Pier #4 Sta. 11+99.88 Elev. 1308.74 * Elev. 1308.52 **
℄ Abutment #2 Expansion Joint Sta. 12+45.01 Elev. 1307.22 * Elev. 1306.85 **
Approach Slab End Sta. 12+76.24 Elev. 1305.95

1310 1300 1290 1280

E F E F E F E

Water Elev. 1295.64 April 1997

Channel Profile (Lt.) Channel Profile (Rt.)

LONGITUDINAL SECTION AT ℄ BRIDGE

DRAINAGE DATA

Design Frequency	10-50 Yr.
Design Discharge	5,500 cfs
Average Design Velocity	2.4 fps
Design High Water Elevation	1300.6 Ft.
Total Waterway Provided	2,948 Sq. Ft.
Design Waterway Provided	2,316 Sq. Ft.

LEGEND

- Deck Core
- • Existing Crown Grade at Top of Asphalt
- •• Proposed Crown Grade
- Milled Area

Core B-1 Location: 16' Rt. ℄ Bridge (West End)
5½" Asphalt
8" Concrete
5½" Top of Concrete to Top of Reinforcing

B-2 Location: Center of Bridge on ℄
8¾" Asphalt
9¼" Concrete
7¼" Top of Concrete to Top of Reinforcing

Install 36" Diameter to 2-26" Diameter Waterline Transition Fittings (Non-participating) (See Sht. No. 35)

Remove sidewalk and reconstruct see Sht. 4

Repair Existing Deteriorated Sidewalk Beams See Sheet No. 29 and 30 for Repairs

Remove Approach and Curb and Gutter Replace with Concrete Pavement (10" Unif.) (AE) with 8" Crushed Stone Base on Geogrid Reinforcement and 60' of Type I Combined Curb and Gutter

Mill 1½" deep by 45' x 2' and place 1½" Plant Mix Commercial Grade Asphalt

City of Wichita

Central Riverside Park

Asphalt

Conc.

℄ Murdock

Sidewalk

Stone Wall

Concrete Wall

Slope Wall

32" Elm

42" Hac

18" Cot

16" Cot

Begin Construction Sta. 9+66.53

Begin Project Sta. 9+68.53

Remove sidewalk and reconstruct see Sht. 4

Construction Limits

Little Arkansas River

℄ Pier #1 Sta. 10+44.88
℄ Pier #2 Exp. Joint Sta. 10+94.88
℄ Pier #3 Exp. Joint Sta. 11+49.88
℄ Pier #4 Sta. 11+99.88
℄ Abutment #2 Expansion Joint Sta. 12+45.01
℄ Abutment #1 Expansion Joint Sta. 9+99.76

R/W

Wood Fence

Sidewalk

Brick Walkway

Grass

Existing Stairs

Existing Sheet Piling Retaining Wall

B-1 B-2

40'-0" Roadway Curb Line Existing

12'-0" Sidewalk

1'-3"

Install New Deck Joints Typ. at Exp. Pier Centerlines See Sheet No. 28

Install New Deck Joints Typ. at Exp. Pier Centerlines See Sheet No. 28

Remove Existing Asphalt, Concrete Deck and Beams between Sidewalks. Replace with New Concrete Deck Slab and 36" Deep Prestressed K2 Beams. (Existing Beams at Sidewalks to Remain) See Sheet No. 10

Reconstruct deteriorated Abutment Wall and Install New Deck Joints See Sheet No. 14 and 27

Reconstruct deteriorated Abutment Wall and Install New Deck Joints See Sheet No. 13 and 27

Replace Existing Concrete Wall with New Retaining Wall See Sheet No. 36

Remove sidewalk and reconstruct see Sht. 4

Remove sidewalk and reconstruct see Sht. 5

Remove Approach and Curb and Gutter Replace with Concrete Pavement (10" Unif.) (AE) with 8" Crushed Stone Base on Geogrid Reinforcement and 60' of Type I Combined Curb and Gutter

Mill 1½" deep by 36' x 2' and place 1½" Plant Mix Commercial Grade Asphalt

Diane Booker Wingate Munger's Original Town Addition

Tomorrow 32 River Park LP Block 1 Park Plaza 1st. Addition

End Project Sta. 12+76.24

End Construction Sta. 12+78.24

Remove sidewalk and reconstruct see Sht. 5

PLAN

245'-3"
45'-1½" 50'-0" 55'-0" 50'-0" 45'-1½"

℄ Abutment #1 Sta. 9+99.76
℄ Pier #1 Sta. 10+44.88
℄ Pier #2 Sta. 10+94.88
℄ Pier #3 Sta. 11+49.88
℄ Pier #4 Sta. 11+99.88
℄ Abutment #2 Sta. 12+45.01

See Sheet No. 31 and 33 for Rail Repair and Light Details Respectively.

1310 1300 1290 1280

Water Elev. 1295.64 April 1997

Channel Profile Left Channel Profile Right

ELEVATION

SCALE
PLAN: Lat. & Long. 20' 0 20' 40'
PROFILE: Horiz. same as above
Vert. 20' 0

DATUM BENCHMARK:
C.O.W. Disk in Sidewalk at N.W. Cor. of Bridge
M.S.L. El. 1306.22

Block Ret. Wall
Note: R/W and easement shown is approximate.
6'x4' RCB
8" VCP Sanitary Sewer
CAUTION!!! Communication Lines (Buried)
Driveway
8" VCP Sanitary Sewer
30' Utility Easement
Conc. Inlet Mitre INLET=1301.08 OUT=1297.02
Scale: 1"=20'

EXISTING BRIDGE:

Spans: 45'-1½", 50'-0", 55'-0", 50'-0", 45'-1½"

Type: Simple Span R.C. Beams Monolithic with 8" Roadway Slab. Footing supported on Timber Piles. 40'-0" Roadway with 12'-0" Sidewalks Left and Right. Elevations shown on Longitudinal Section are existing Top of Asphalt elevations.

Bridge No.: 530400870OLAR30.

No.	Revisions	By	Date
1			

CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E.-ACTING CITY ENGINEER
MURDOCK BRIDGE
OVER LITTLE ARKANSAS RIVER
CONSTRUCTION LAYOUT
CITY OF WICHITA PROJECT NO. 472-83895

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	R.A.S.	Checked by	R.A.S.
Drawn by	R.A.S./W.L.L.	Date	July 2003
		Job No.	96940-2

usr/lustn/dgn/1996/96940/002/affixcheck/layoutwocobase.dgn
drawn by : ras/wll
plotted by : ras 3-20-2004