| SHEET NO. | TOTAL SHEETS |
|---|---|
| C72 | 131 |

| MARK | BEND | SIZE | NO. | LENGTH | a | b | c | d | e | f |
|---|---|---|---|---|---|---|---|---|---|---|
| ABUTMENT NO. 1 - SUBSTRUCTURE (NON-EPOXY COATED) | | | | | | | | | | |
| AF1 | STR | 8 | 8 | 47'-10" | | | | | | |
| AF2 | STR | 8 | 8 | 33'-1" | | | | | | |
| AF3 | STR | 8 | 8 | 18'-6" | | | | | | |
| AF4 | STR | 6 | 44 | 47'-2" | | | | | | |
| AF5 | STR | 5 | 116 | 14'-5" | | | | | | |
| AF6 | C | 5 | 172 | 7'-0" | 2'-8" | 2'-2" | 2'-2" | | | |
| AF7 | J | 4 | 100 | 8'-7" | 1'-6" | 5'-7" | 1'-6" | | 2 | 1 |
| AF8 | STR | 6 | 12 | 32'-5" | | | | | | |
| AF9 | C | 4 | 40 | 2'-4" | 1'-0" | 8" | 8" | | | |
| AF10 | C | 4 | 30 | 2'-4" | 1'-0" | 8" | 8" | | | |
| AF11 | STR | 4 | 10 | 4'-4" | | | | | | |
| AF12 | C | 4 | 35 | 2'-4" | 0'-6" | 11" | 11" | | | |
| AF13 | C | 4 | 12 | 3'-3" | 1'-11" | 8" | 8" | | | |
| AF14 | C | 4 | 10 | 3'-3" | 1'-11" | 8" | 8" | | | |
| AF15 | C | 4 | 10 | 2'-6" | 1'-2" | 8" | 8" | | | |
| AF16 | STR | 5 | 20 | 13'-3" | | | | | | |
| AF17 | STR | 5 | 36 | 12'-5" | | | | | | |
| AF18 | C | 4 | 26 | 4'-8" | 2'-8" | 1'-0" | 1'-0" | | | |
| AF19 | STR | 8 | 8 | 9'-0" | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| AD1 | E | 8 | 12 | 26'-3" | 24'-5" | 11" | 11" | | 6" | |
| AD2 | STR | 6 | 72 | 3'-7" | | | | | | |
| AD3 | A | 4 | 24 | 11'-8" | 1'-7" | 3'-7" | 8" | | | |
| AD4 | C | 4 | 48 | 2'-11" | 1'-7" | 8" | 8" | | | |
| ABUTMENT NO. 2 - SUBSTRUCTURE (NON-EPOXY COATED) | | | | | | | | | | |
| AF1 | STR | 8 | 8 | 47'-10" | | | | | | |
| AF2 | STR | 8 | 8 | 33'-1" | | | | | | |
| AF3 | STR | 8 | 8 | 18'-6" | | | | | | |
| AF4 | STR | 6 | 44 | 47'-2" | | | | | | |
| AF5 | STR | 5 | 116 | 14'-1" | | | | | | |
| AF6 | C | 5 | 172 | 7'-0" | 2'-8" | 2'-2" | 2'-2" | | | |
| AF7 | J | 4 | 100 | 8'-7" | 1'-6" | 5'-7" | 1'-6" | | 2 | 1 |
| AF8 | STR | 6 | 12 | 32'-5" | | | | | | |
| AF9 | C | 4 | 40 | 2'-4" | 1'-0" | 8" | 8" | | | |
| AF10 | C | 4 | 30 | 2'-4" | 1'-0" | 8" | 8" | | | |
| AF11 | STR | 4 | 10 | 4'-4" | | | | | | |
| AF12 | C | 4 | 35 | 2'-4" | 6" | 11" | 11" | | | |
| AF13 | C | 4 | 12 | 3'-3" | 1'-11" | 8" | 8" | | | |
| AF14 | C | 4 | 10 | 3'-3" | 1'-11" | 8" | 8" | | | |
| AF15 | C | 4 | 10 | 2'-6" | 1'-2" | 8" | 8" | | | |
| AF16 | STR | 5 | 20 | 13'-0" | | | | | | |
| AF17 | STR | 5 | 36 | 12'-3" | | | | | | |
| AF18 | C | 4 | 26 | 4'-8" | 2'-8" | 1'-0" | 1'-0" | | | |
| AF19 | STR | 8 | 8 | 9'-0" | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| AD1 | E | 8 | 12 | 26'-3" | 24'-5" | 11" | 11" | | 6" | |
| AD2 | STR | 6 | 72 | 3'-7" | | | | | | |
| AD3 | A | 4 | 24 | 11'-8" | 1'-7" | 3'-7" | 8" | | | |
| AD4 | C | 4 | 48 | 2'-11" | 1'-7" | 8" | 8" | | | |

| MARK | BEND | SIZE | NO. | LENGTH | a | b | c | d | e | f |
|---|---|---|---|---|---|---|---|---|---|---|
| PIER NO. 1 - SUBSTRUCTURE - (NON-EPOXY COATED) | | | | | | | | | | |
| PF3 | B | 7 | 84 | 8'-5" | 7'-3" | 1'-2" | | | | |
| PF4 | STR | 9 | 18 | 20'-5" | | | | | | |
| PF5 | STR | 9 | 50 | 6'-8" | | | | | | |
| PC1 | STR | 7 | 54 | 22'-6" | | | | | | |
| PC2 | STR | 7 | 30 | 21'-9" | | | | | | |
| PC3 | STR | 6 | 88 | 11'-2" | | | | | | |
| PC4 | PC4 | 6 | 90 | 14'-6" | | | | | | |
| PC5 | C | 4 | 132 | 6'-1" | 4'-7" | 9" | 9" | | | |
| PC6 | C | 4 | 44 | 5'-8" | 4'-2" | 9" | 9" | | | |
| PC7 | STR | 6 | 4 | 8'-6" | | | | | | |
| PC8 | L | 4 | 84 | 4'-2" | 8" | 9" | 1'-0" | 1'-0" | 9" | |
| PC9 | STR | 4 | 8 | 21'-0" | | | | | | |
| PG2 | C | 4 | 48 | 3'-0" | 1'-8" | 8" | 8" | | | |
| PIER NO. 2 - SUBSTRUCTURE - (NON-EPOXY COATED) | | | | | | | | | | |
| PF1 | STR | 9 | 22 | 42'-8" | | | | | | |
| PF2 | STR | 9 | 102 | 8'-8" | | | | | | |
| PF3 | B | 7 | 288 | 8'-5" | 7'-3" | 1'-2" | | | | |
| P1 | STR | 7 | 176 | 22'-3" | | | | | | |
| P2 | STR | 7 | 70 | 22'-3" | | | | | | |
| P3 | STR | 7 | 48 | 28'-6" | | | | | | |
| P4 | B | 7 | 42 | 28'-5" | 27'-3 | 1'-2" | | | | |
| P5 | P5 | 6 | 92 | 19'-6" | | | | | | |
| P6 | STR | 6 | 92 | 30'-0" | | | | | | |
| P7 | C | 5 | 384 | 9'-1" | 7'-7" | 9" | 9" | | | |
| P8 | C | 5 | 48 | 8'-5" | 6'-11" | 9" | 9" | | | |
| P9 | C | 5 | 48 | 6'-3" | 4'-9" | 9" | 9" | | | |
| P10 | C | 5 | 16 | 8'-2" | 4'-2" | 2'-0" | 2'-0" | | | |
| P11 | C | 5 | 4 | 10'-6" | 3'-8" | 3'-5" | 3'-5" | | | |
| P12 | STR | 6 | 48 | 38'-9" | | | | | | |
| P13 | STR | 6 | 24 | 41'-9" | | | | | | |
| P14 | L | 4 | 176 | 4'-2" | 8" | 9" | 1'-0" | 1'-0" | 9" | |
| P15 | STR | 4 | 8 | 45'-0" | | | | | | |
| P16 | C | 5 | 14 | 8'-10" | 3'-8" | 2'-7" | 2'-7" | | | |
| PB1 | STR | 5 | 10 | 31'-3" | | | | | | |
| PB2 | B | 5 | 8 | 8'-3" | 7'-6" | 9" | | | | |
| PB3 | B | 5 | 8 | 12'-4" | 11'-0" | 1'-4" | | | | |
| PB4 | C | 4 | 10 | 6'-2" | 3'-8" | 1'-3" | 1'-3" | | | |
| PB5 | C | 4 | 16 | 6'-8" | 3'-8" | 1'-6" | 1'-6" | | | |
| PB6 | STR | 6 | 4 | 8'-6" | | | | | | |
| PB7 | STR | 6 | 4 | 15'-0" | | | | | | |
| PB8 | STR | 6 | 4 | 25'-0" | | | | | | |
| PB9 | STR | 6 | 4 | 28'-0" | | | | | | |
| PB10 | STR | 11 | 54 | 30'-8" | | | | | | |
| PB11 | STR | 9 | 18 | 48'-0" | | | | | | |
| PB12 | STR | 9 | 9 | 60'-0" | | | | | | |
| PB13 | STR | 8 | 27 | 16'-0" | | | | | | |
| PB14 | STR | 6 | 4 | 24'-3" | | | | | | |
| PB15 | C | 5 | 472 | 8'-8" | 1'-2" | 3'-9" | 3'-9" | | | |
| PB16 | C | 3 | 78 | 2'-11" | 1'-5" | 9" | 9" | | | |
| PG1 | C | 4 | 8 | 2'-10" | 1'-6" | 8" | 8" | | | |
| PG2 | C | 4 | 56 | 3'-0" | 1'-8" | 8" | 8" | | | |
| PG3 | C | 4 | 25 | 5'-7" | 4'-3" | 8" | 8" | | | |
| PG4 | C | 4 | 50 | 3'-2" | 1'-10" | 8" | 8" | | | |

| MARK | BEND | SIZE | NO. | LENGTH | a | b | c | d | e | f |
|---|---|---|---|---|---|---|---|---|---|---|
| PIER NO. 4 - SUBSTRUCTURE - (NON-EPOXY COATED) | | | | | | | | | | |
| PF3 | B | 7 | 84 | 8'-5" | 7'-3" | 1'-2" | | | | |
| PF4 | STR | 9 | 18 | 20'-5" | | | | | | |
| PF5 | STR | 9 | 50 | 6'-8" | | | | | | |
| PC1 | STR | 7 | 54 | 22'-6" | | | | | | |
| PC2 | STR | 7 | 30 | 21'-9" | | | | | | |
| PC3 | STR | 6 | 88 | 11'-2" | | | | | | |
| PC4 | PC4 | 6 | 90 | 14'-6" | | | | | | |
| PC5 | C | 4 | 132 | 6'-1" | 4'-7" | 9" | 9" | | | |
| PC6 | C | 4 | 44 | 5'-8" | 4'-2" | 9" | 9" | | | |
| PC7 | STR | 6 | 4 | 8'-6" | | | | | | |
| PC8 | L | 4 | 84 | 4'-2" | 8" | 9" | 1'-0" | 1'-0" | 9" | |
| PC9 | STR | 4 | 8 | 21'-0" | | | | | | |
| PG2 | C | 4 | 48 | 3'-0" | 1'-8" | 8" | 8" | | | |
| PIER NO. 3 - SUBSTRUCTURE - (NON-EPOXY COATED) | | | | | | | | | | |
| PF1 | STR | 9 | 22 | 42'-8" | | | | | | |
| PF2 | STR | 9 | 102 | 8'-8" | | | | | | |
| PF3 | B | 7 | 288 | 8'-5" | 7'-3" | 1'-2" | | | | |
| P1 | STR | 7 | 176 | 22'-3" | | | | | | |
| P2 | STR | 7 | 70 | 22'-3" | | | | | | |
| P3 | STR | 7 | 48 | 28'-6" | | | | | | |
| P4 | B | 7 | 42 | 28'-5" | 27'-3 | 1'-2" | | | | |
| P5 | P5 | 6 | 92 | 19'-6" | | | | | | |
| P6 | STR | 6 | 92 | 30'-0" | | | | | | |
| P7 | C | 5 | 384 | 9'-1" | 7'-7" | 9" | 9" | | | |
| P8 | C | 5 | 48 | 8'-5" | 6'-11" | 9" | 9" | | | |
| P9 | C | 5 | 48 | 6'-3" | 4'-9" | 9" | 9" | | | |
| P10 | C | 5 | 16 | 8'-2" | 4'-2" | 2'-0" | 2'-0" | | | |
| P11 | C | 5 | 4 | 10'-6" | 3'-8" | 3'-5" | 3'-5" | | | |
| P12 | STR | 6 | 48 | 38'-9" | | | | | | |
| P13 | STR | 6 | 24 | 41'-9" | | | | | | |
| P14 | L | 4 | 176 | 4'-2" | 8" | 9" | 1'-0" | 1'-0" | 9" | |
| P15 | STR | 4 | 8 | 45'-0" | | | | | | |
| P16 | C | 5 | 14 | 8'-10" | 3'-8" | 2'-7" | 2'-7" | | | |
| PB1 | STR | 5 | 10 | 31'-3" | | | | | | |
| PB2 | B | 5 | 8 | 8'-3" | 7'-6" | 9" | | | | |
| PB3 | B | 5 | 8 | 12'-4" | 11'-0" | 1'-4" | | | | |
| PB4 | C | 4 | 10 | 6'-2" | 3'-8" | 1'-3" | 1'-3" | | | |
| PB5 | C | 4 | 16 | 6'-8" | 3'-8" | 1'-6" | 1'-6" | | | |
| PB6 | STR | 6 | 4 | 8'-6" | | | | | | |
| PB7 | STR | 6 | 4 | 15'-0" | | | | | | |
| PB8 | STR | 6 | 4 | 25'-0" | | | | | | |
| PB9 | STR | 6 | 4 | 28'-0" | | | | | | |
| PB10 | STR | 11 | 54 | 30'-8" | | | | | | |
| PB11 | STR | 9 | 18 | 48'-0" | | | | | | |
| PB12 | STR | 9 | 9 | 60'-0" | | | | | | |
| PB13 | STR | 8 | 27 | 16'-0" | | | | | | |
| PB14 | STR | 6 | 4 | 24'-3" | | | | | | |
| PB15 | C | 5 | 472 | 8'-8" | 1'-2" | 3'-9" | 3'-9" | | | |
| PB16 | C | 3 | 78 | 2'-11" | 1'-5" | 9" | 9" | | | |
| PG1 | C | 4 | 8 | 2'-10" | 1'-6" | 8" | 8" | | | |
| PG2 | C | 4 | 56 | 3'-0" | 1'-8" | 8" | 8" | | | |
| PG3 | C | 4 | 25 | 5'-7" | 4'-3" | 8" | 8" | | | |
| PG4 | C | 4 | 50 | 3'-2" | 1'-10" | 8" | 8" | | | |

## LEGEND

STR-Straight bar

See Sht. No. C75 for Bending Diagrams

| No. | Revisions | By | Date |
|---|---|---|---|
| 1 | | | |

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER
DOUGLAS AVENUE BRIDGE
OVER ARKANSAS RIVER

# REINFORCING DETAILS-SUBST.

CITY OF WICHITA PROJECT NO. 472-82721

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

| Designed by | P.D.F. | Checked by | R.A.S. | |
|---|---|---|---|---|
| Drawn by | R.A.S. | Date | Sept. 1997 | Job No. 95088-4 |

i:/1995/95088/douglas/reinf.dgn
drawn by: ras
plotted by: ras 9-4-97