CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

PART I
GRADING
DRAINAGE
PAVING

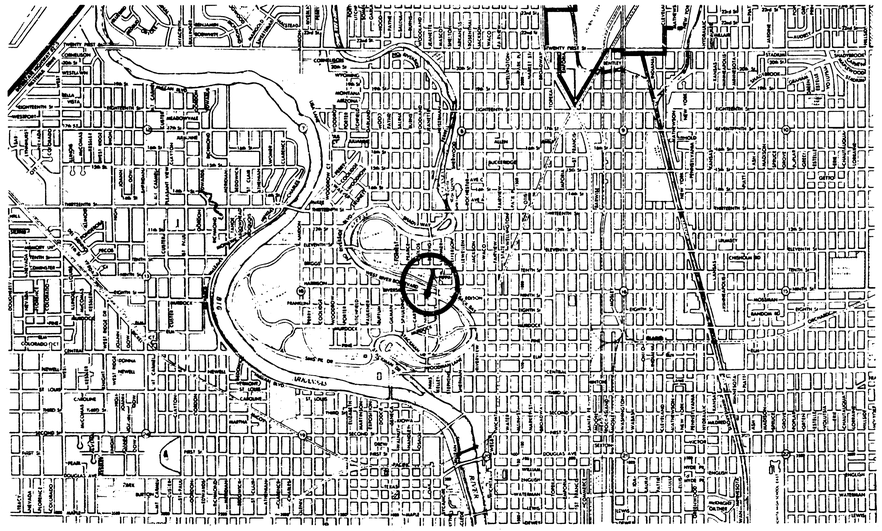
PART II
BRIDGE

GREIFFENSTEIN BRIDGE

INDEX OF SHEETS

PART I
- TITLE SHEET
- 1-1 GENERAL LAYOUT
- 1-2 GRADING & DRAINAGE - PLAN & PROFILE
- 1-3 GRADING PLAN - ALTERNATES 1 & 2.
- 1-4 TYPICAL SECTIONS
- 1-5 HEADWALL & MANHOLE DETAILS
- 1-6 DRAINAGE DETAILS

PART II
- 2-1 BRIDGE CONSTRUCTION LAYOUT
- 2-2 ABUTMENT & MISC. DETAILS
- 2-3 PIER & MISC. DETAILS
- 2-4 DECK REINFORCING

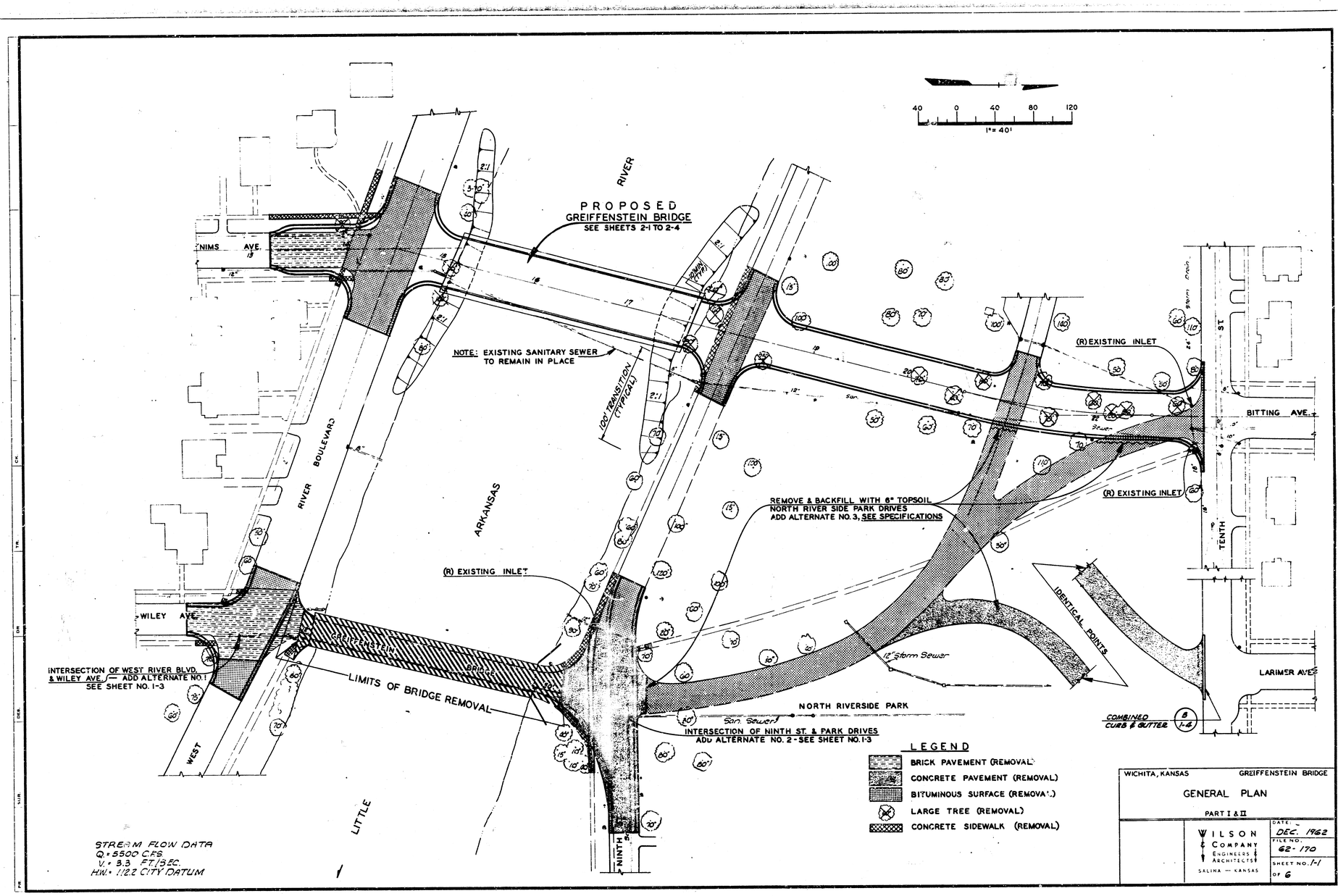


LITTLE ARKANSAS RIVER CROSSING

1962

12/20/62

Greiffenstein Br. 1962 Little Ark. R.



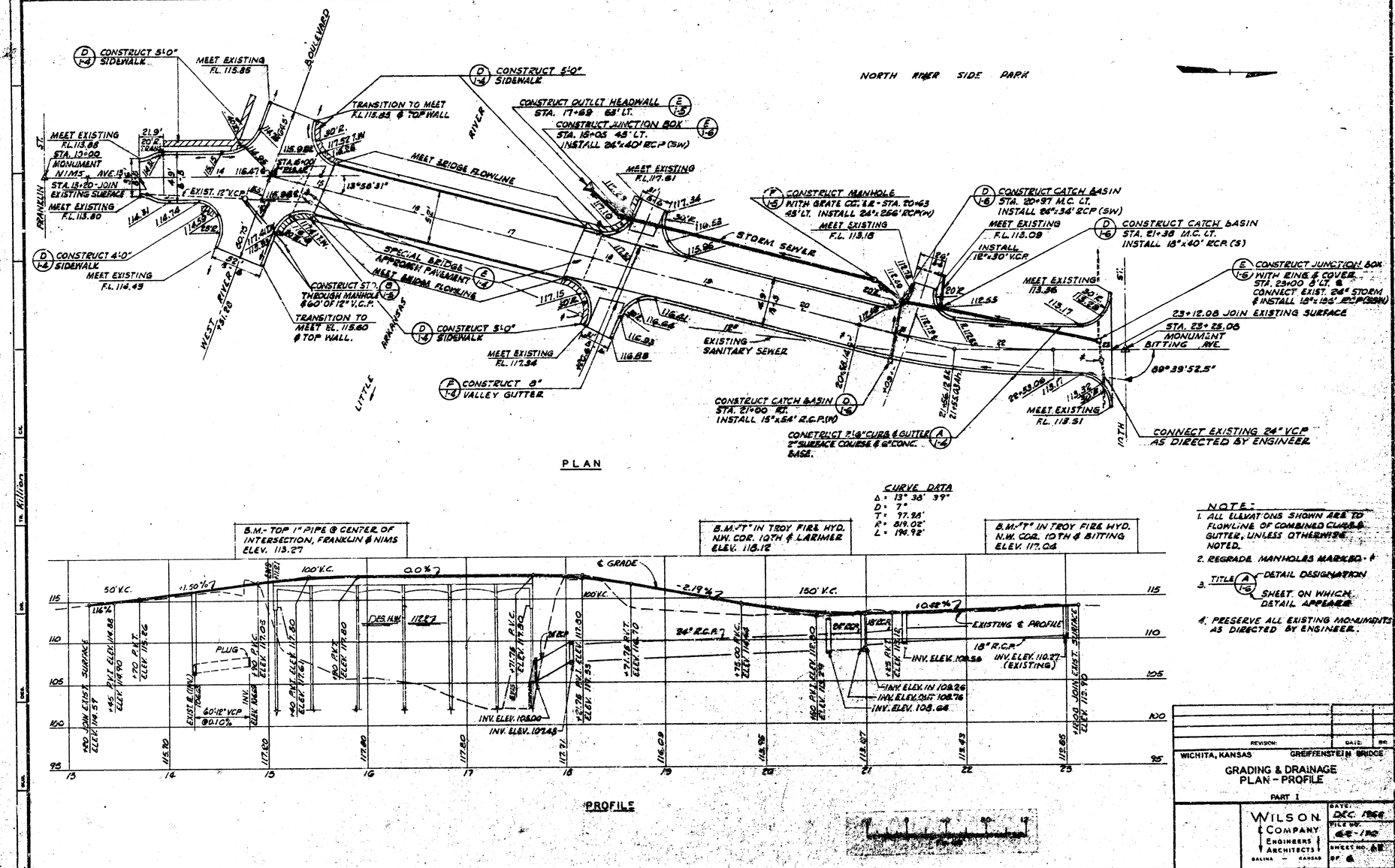
WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

GENERAL PLAN

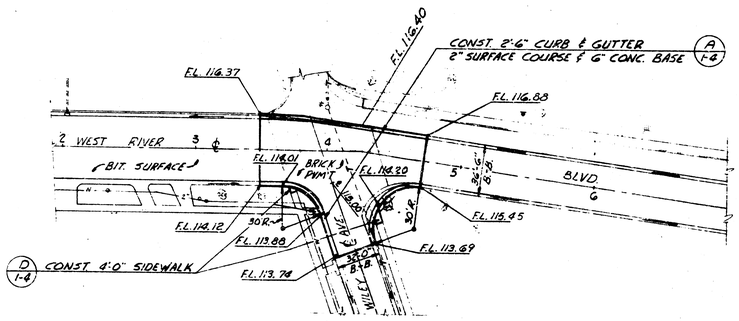
PART I & II

WILSON & COMPANY ENGINEERS & ARCHITECTS
SALINA — KANSAS

DATE: DEC. 1962
FILE NO.: 62-170
SHEET NO.: 1-1
OF 6

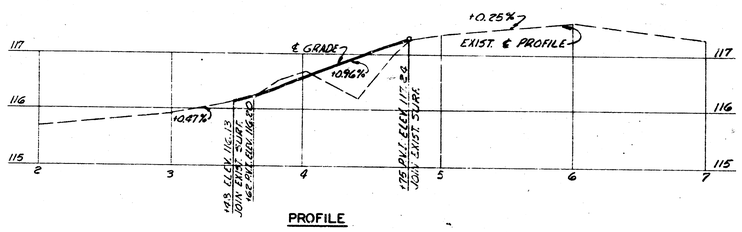

NORTH RIVER SIDE PARK
BOULEVARD
FRANKLIN ST.
RIVER
WEST RIVER
LITTLE ARKANSAS
CONSTRUCT 5'-0" SIDEWALK
MEET EXISTING F.L. 115.85
TRANSITION TO MEET F.L. 115.85 @ TOP WALL
CONSTRUCT OUTLET HEADWALL STA. 17+69 63' LT.
CONSTRUCT JUNCTION BOX STA. 15+05 45' LT. INSTALL 24"x40' RCP (SW)
MEET EXISTING F.L. 113.88
STA. 13+00 MONUMENT NIMS AVE.
STA. 13+20 JOIN EXISTING SURFACE
EXIST. 12" V.C.P.
MEET EXISTING F.L. 113.80
CONSTRUCT 4'-0" SIDEWALK
MEET EXISTING F.L. 114.49
MEET BRIDGE FLOWLINE
SPECIAL BRIDGE APPROACH PAVEMENT
MEET BRIDGE FLOWLINE
CONSTRUCT STD. THROUGH MANHOLE @ 60' OF 12" V.C.P.
TRANSITION TO MEET EL. 115.60 @ TOP WALL.
CONSTRUCT 5'-0" SIDEWALK
MEET EXISTING F.L. 117.34
CONSTRUCT 8" VALLEY GUTTER
MEET EXISTING F.L. 117.81
CONSTRUCT MANHOLE WITH GREATE CO. S.E. - STA. 70+63 45' LT. INSTALL 24"x 256' RCP (SW)
MEET EXISTING F.L. 113.16
STORM SEWER
EXISTING SANITARY SEWER
CONSTRUCT CATCH BASIN STA. 21+00 RT. INSTALL 15"x54" R.C.P. (W)
CONSTRUCT 7'-6" CURB & GUTTER 2" SURFACE COURSE & 6" CONC. BASE.
CONSTRUCT CATCH BASIN STA. 20+97 M.C. LT. INSTALL 36"x34' RCP (SW)
MEET EXISTING F.L. 113.09
INSTALL 12"x30' V.C.P.
CONSTRUCT CATCH BASIN STA. 21+38 M.C. LT. INSTALL 18"x40' RCP (S)
MEET EXISTING 113.36
CONSTRUCT JUNCTION BOX WITH RING & COVER STA. 23+00 5' LT. & CONNECT EXIST. 24" STORM & INSTALL 18"x 196' RCP (SW)
23+12.08 JOIN EXISTING SURFACE
STA. 23+28.08 MONUMENT BITTING AVE.
89°39'52.5"
MEET EXISTING F.L. 118.51
CONNECT EXISTING 24" VCP AS DIRECTED BY ENGINEER
PLAN
CURVE DATA
Δ = 13° 36' 39"
D = 7°
T = 97.26'
R = 819.02'
L = 194.92'
B.M.-TOP 1" PIPE @ CENTER OF INTERSECTION, FRANKLIN & NIMS ELEV. 113.27
B.M.-"T" IN TROY FIRE HYD. N.W. COR. 10TH & LARIMER ELEV. 113.12
B.M.-"T" IN TROY FIRE HYD. N.W. COR. 10TH & BITTING ELEV. 117.04
℄ GRADE
50' V.C.
100' V.C.
150' V.C.
+1.50%
0.0%
-2.19%
10.42%
PLUG
EXIST. 8" (INV.) ELEV. 108.63
60"x18" VCP @0.10%
INV. ELEV. 108.00
INV. ELEV. 107.48
36" R.C.P.
18" R.C.P.
EXISTING ℄ PROFILE
INV. ELEV. 109.56
INV. ELEV. 110.27 (EXISTING)
INV. ELEV. IN 109.26
INV. ELEV. OUT 108.76
INV. ELEV. 108.64
PROFILE
NOTE:
1. ALL ELEVATIONS SHOWN ARE TO FLOWLINE OF COMBINED CURB & GUTTER, UNLESS OTHERWISE NOTED.
2. REGRADE MANHOLES MARKED +
3. TITLE (A / 1-6) DETAIL DESIGNATION / SHEET ON WHICH DETAIL APPEARS
4. PRESERVE ALL EXISTING MONUMENTS AS DIRECTED BY ENGINEER.
REVISION:
DATE:
BY
WICHITA, KANSAS GREIFFENSTEIN BRIDGE
GRADING & DRAINAGE PLAN - PROFILE
PART I
WILSON & COMPANY ENGINEERS ARCHITECTS SALINA - KANSAS
DATE: DEC. 1966
FILE NO. 66-152
SHEET NO. 8 OF 8

SCALE 1"=40'



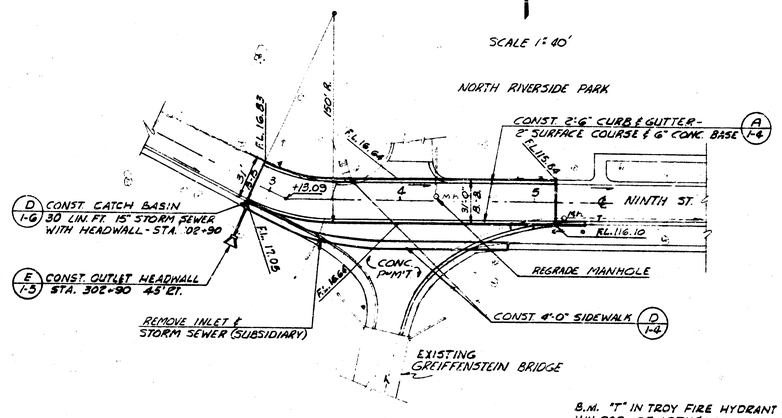
PLAN

B.M. TOP 1" PIPE - SW COR. OF WILEY AVE. & WEST RIVER DRIVE
ELEV. 114.77



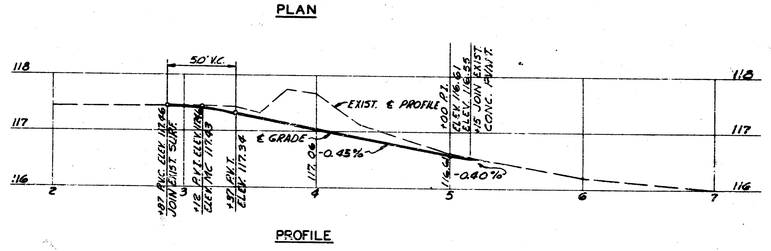
PROFILE

INTERSECTION OF WEST RIVER BLVD. & WILEY AVE.
ADD ALTERNATE NO. 1



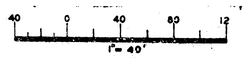
PLAN

B.M. "T" IN TROY FIRE HYDRANT
NW COR. OF 10TH & LARIMER
ELEV. 118.12



PROFILE

INTERSECTION OF NINTH ST. & PARK DRIVES
ADD ALTERNATE NO. 2



REVISION:	DATE:	BY:

WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

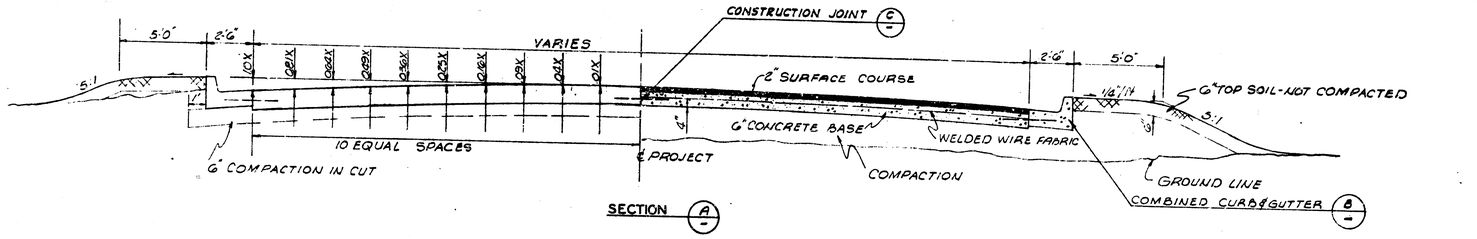
GRADING PLAN ALTERNATES 1 & 2

PART I

WILSON & COMPANY ENGINEERS & ARCHITECTS
SALINA — KANSAS

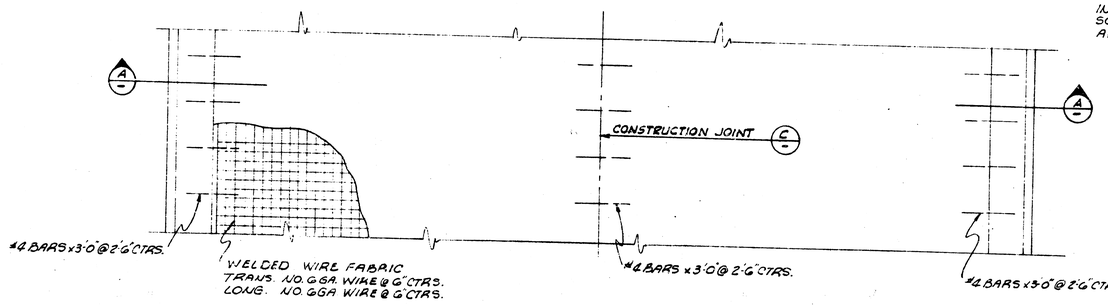
DATE: DEC. 1968
FILE NO. 68-170
SHEET NO. 1-3
OF 6

WIDTH-FEET BACK TO BACK	CROWN "X"
49 FOOT	.69 FOOT
36 FOOT	.50 FOOT
31 FOOT	.31 FOOT

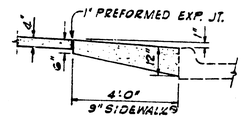


SECTION A

INTERSECTION OF ALL SLOPE LINES SHALL BE SOFTENED AND ROUNDED FOR PLEASING APPEARANCE.

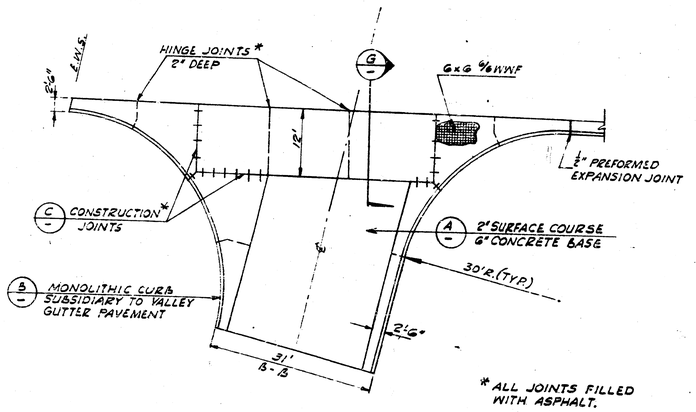


PLAN



SIDEWALK D

@ AT END OF SIDEWALK IN INTERSECTIONS OR AT BRIDGE ABUTMENT.

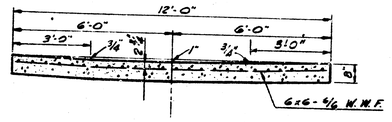


* ALL JOINTS FILLED WITH ASPHALT.

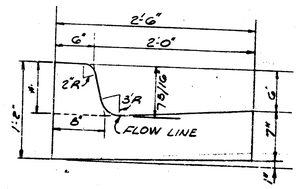
TYPICAL PLAN

8" VALLEY GUTTER F
SCALE 1" = 10'

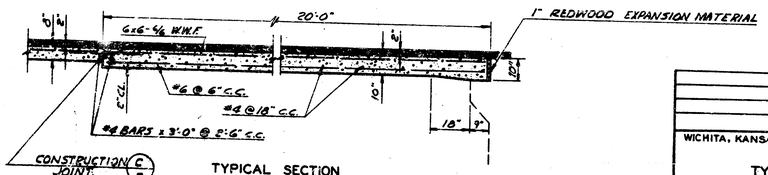
PLAN



SECTION G
SCALE 1/2" = 1'-0"



COMBINED CURB & GUTTER B
* VARY TO MEET EXISTING CURB WHERE REQUIRED. LENGTH OF TRANSITION = 3 FOOT MIN.



TYPICAL SECTION

SPECIAL BRIDGE APPROACH PAVEMENT E
PAID FOR AS 2" SURF COURSE & 6" CONC BASE
SCALE 1/2" = 1'-0"

REVISION:	DATE:	BY:

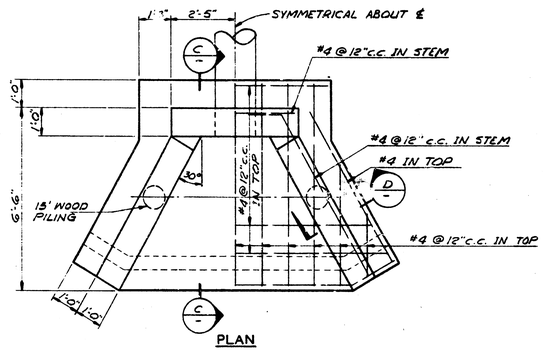
WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

TYPICAL SECTIONS

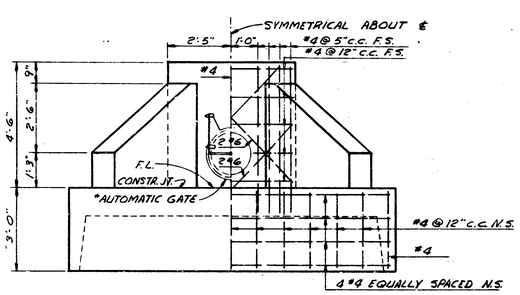
PART I

WILSON & COMPANY ENGINEERS & ARCHITECTS
SALINA — KANSAS

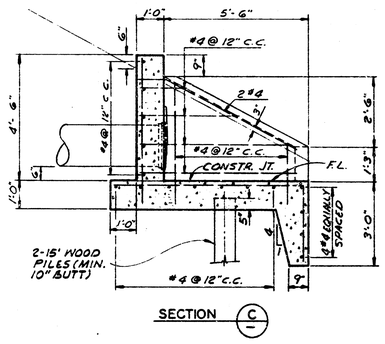
DATE: DEC. 1962
FILE NO. 62-170
SHEET NO. 4 OF 6



PLAN



ELEVATION

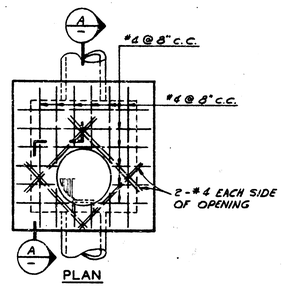


SECTION C

OUTLET HEADWALL FOR * E

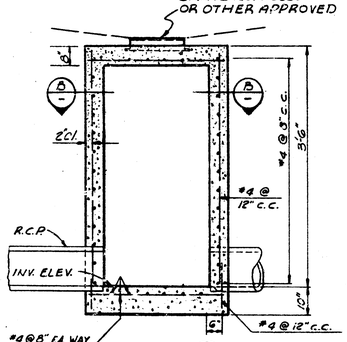
SCALE: 1/2" = 1'-0"

* 24" RCP & 15" R.C.P.



PLAN

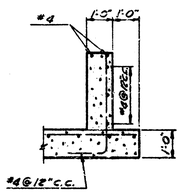
GEO. C. CHRISTOPHER & SONS
RING NO. SL-229X
GRATE NO. SL-229X
OR OTHER APPROVED



SECTION A

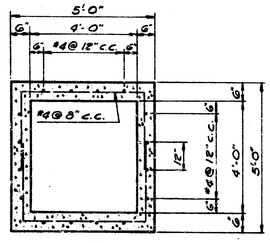
MANHOLE DETAILS F

NOT TO SCALE

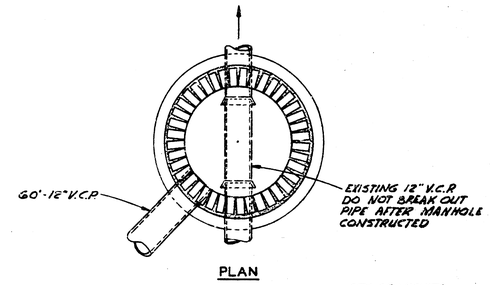


SECTION D

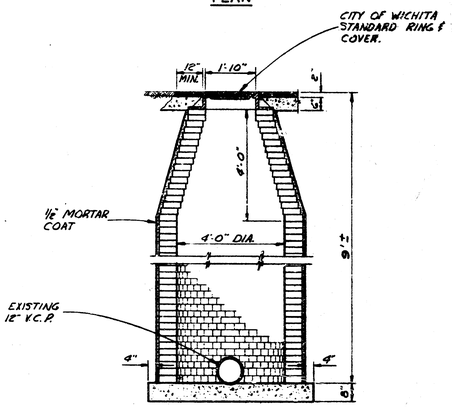
*NOTE: AUTOMATIC GATE TO BE USED ONLY WHEN SPECIFIED ON PLAN SHEET.



SECTION B



PLAN



SECTION

STANDARD THROUGH MANHOLE G

SCALE: 1/2" = 1'-0"

REVISION:	DATE:	BY:

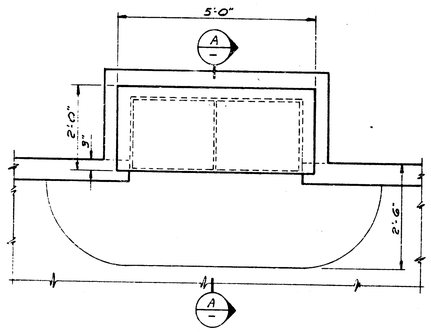
WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

HEADWALL & MANHOLE DETAILS

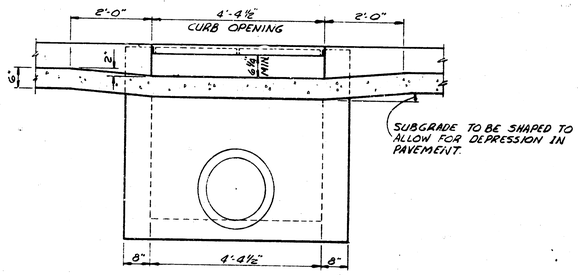
PART I

WILSON & COMPANY ENGINEERS ARCHITECTS SALINA — KANSAS

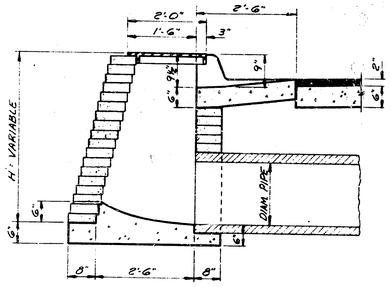
DATE: DEC. 1962
FILE NO. 62-170
SHEET NO. 1-5 OF 6



PLAN



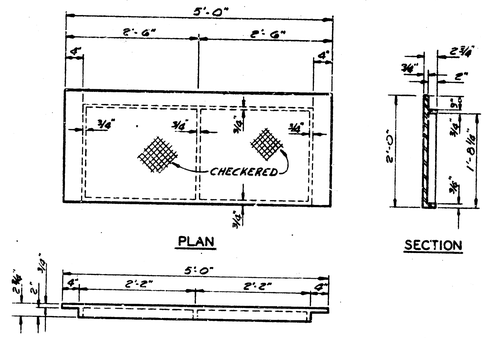
ELEVATION



SECTION (A)

STANDARD CATCH BASIN (D)

SCALE: 3/8" = 1'-0"



PLAN

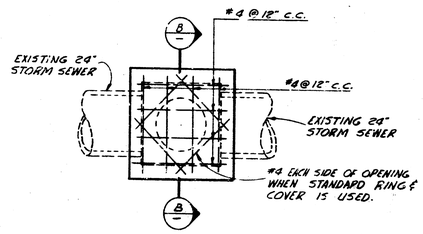
SECTION

ELEVATION

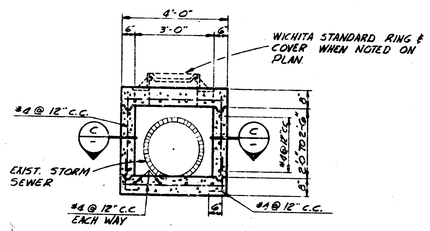
CITY OF WICHITA CAST IRON INLET COVER

SCALE: 1"=1'-0"

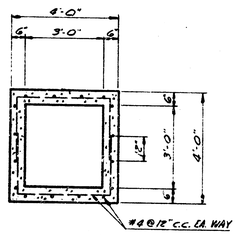
WEIGHT OF CASTING = 325 LBS.



PLAN



SECTION (B)



SECTION (C)

JUNCTION BOX DETAILS (E)

SCALE: ½" = 1'-0"

SCHEDULE OF STRUCTURES

STATION	SIDE	TYPE	TOP EL.	INV.	H.
17+69	LT.	HW	–	105.00	–
18+05	LT.	JB	–	107.48	–
20+63	LT.	MH	112.33	108.64	3.60
20+97	LT.	CB	113.01	108.76	4.25
21+00	RT	CB	113.07	109.57	3.50
21+38	LT.	CB	113.16	109.56	3.60
23+00	LT.	JB	113.88	110.27	3.56
23+03	RT.	JB	–	110.55	3.00
*2+90	RT.	CB	117.66	113.66	4.00
*2+90	RT	HW	–	105.00	–

* INTERSECTION OF NINTH ST. & PARK DRIVES (ADD ALTERNATE NO. 2)

REVISION:	DATE:	BY:

WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

DRAINAGE DETAILS

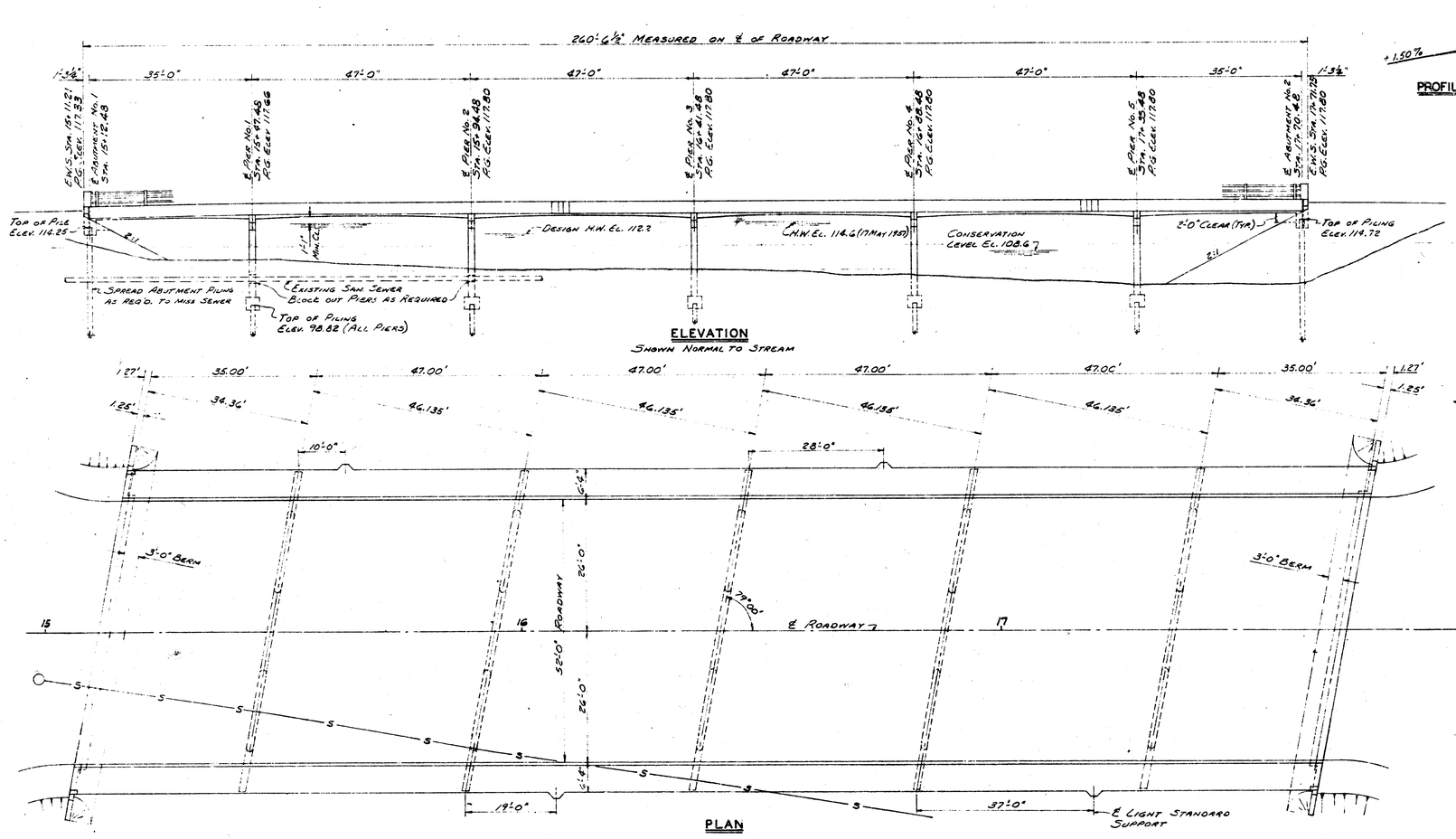
PART I

WILSON & COMPANY ENGINEERS ARCHITECTS SALINA — KANSAS

DATE: DEC. 1962

FILE NO. 62-170

SHEET NO. 16 OF 6



GENERAL NOTES:

Design Loading: H20-S16-44 A.A.S.H.O Specifications 1961 Ed.
Unit Stresses: f'c = 4000 P.S.I., fc = 1600 P.S.I., fs = 20000 P.S.I.
Excavation and Embankment: Complete Excavation and Embankment in the vicinity of the Bridge prior to Constructing Abutments.
Epoxy Resin Seal: See Specifications.
Piling: Abutment Piling 10BP42 driven to a computed bearing value of 37 Tons. per Pile. Pier Piling 12BP53 or 12" Square Prestressed Concrete driven to a computed bearing value of 47 Tons per Pile. See Specifications.
Geology: See Specifications for Log of Borings.

Existing Sanitary Sewer: Keep sewer in service during construction. Block out piers to accomodate sewer, leaving 2" min. clearance all around. Scrio or cut reinforcing at blockouts at the direction of the Engineer.
Existing Piling: See Specifications.

REVISION:	DATE:	BY:

WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

BRIDGE CONSTRUCTION LAYOUT

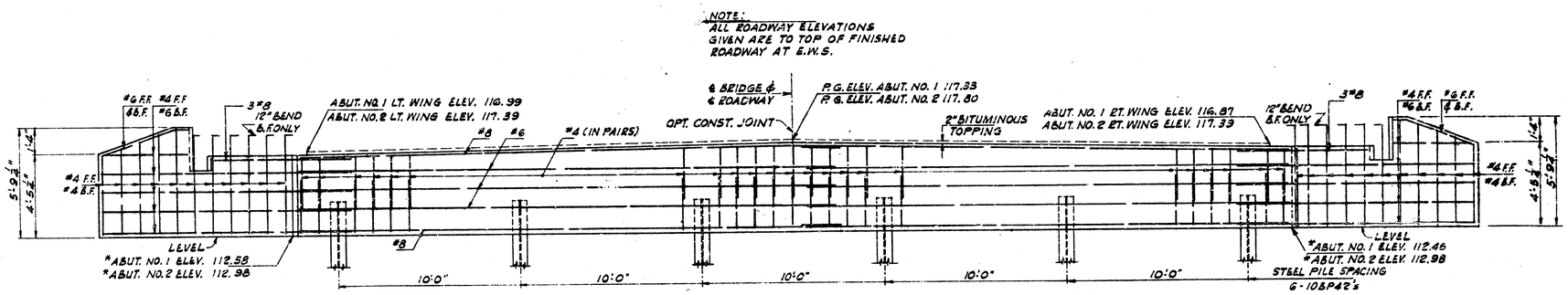
PART II

LEWIS C. CRAWFORD 1178 REGISTERED ENGINEER KANSAS

WILSON & COMPANY ENGINEERS ARCHITECTS SALINA — KANSAS

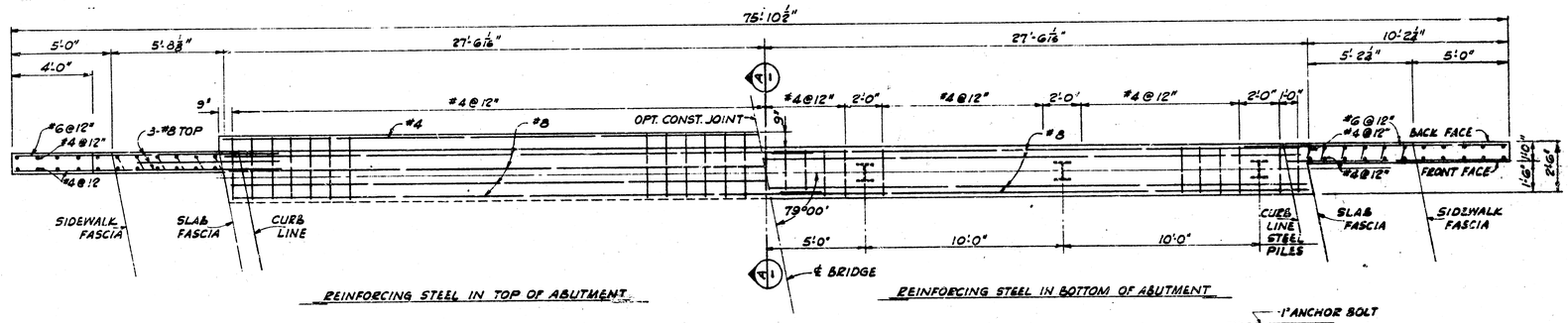
DATE: DEC. 1962
FILE NO. 62-170
SHEET NO. S-1 OF 4

DR. A.S.W.
TR. C.C.C.
DR. C.C.C.
DES. C.C.C.
BUR.
PR.



* BOTTOM OF ABUTMENT ELEVATIONS.

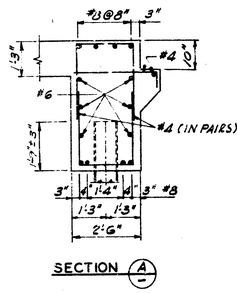
ELEVATION OF ABUTMENT
LOOKING UP STATION



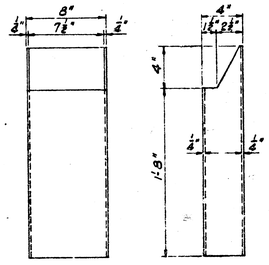
REINFORCING STEEL IN TOP OF ABUTMENT

REINFORCING STEEL IN BOTTOM OF ABUTMENT

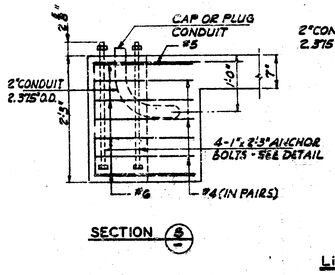
PLAN OF ABUTMENT



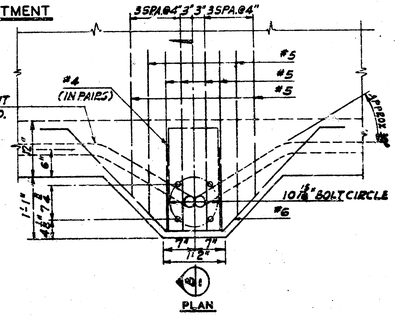
SECTION A



CAST IRON DRAIN DETAIL

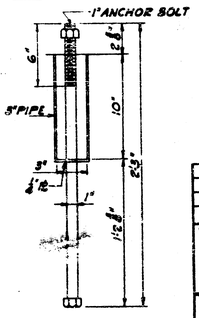


SECTION C



PLAN

LIGHT STANDARD SUPPORT DETAIL



ANCHOR BOLT DETAIL

REVISION.	DATE:	BY:

WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

ABUTMENT & MISCELLANEOUS DETAILS

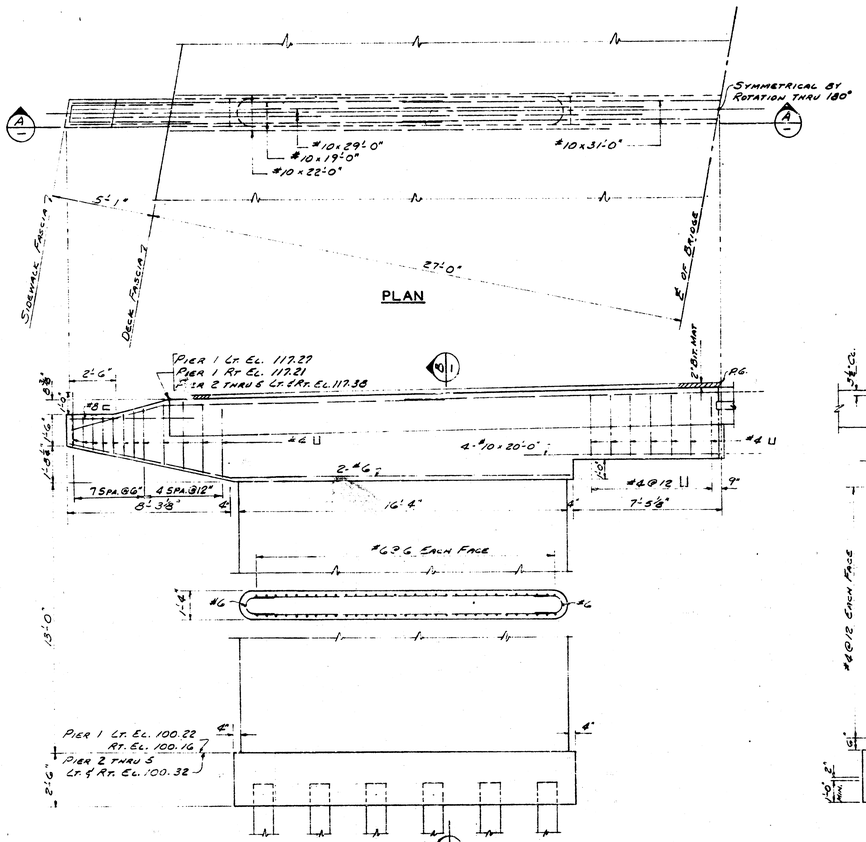
PART II

DENIS C. CUMFORD — REGISTERED — 1178 — KANSAS — ENGINEER

WILSON & COMPANY
ENGINEERS | ARCHITECTS
SALINA — KANSAS

DATE: DEC. 1962
FILE NO. 62-170
SHEET NO. 82 OF 4

CK. T.H. E.E.H. DR. E.E.H. SUR. PR.



REVISION:	DATE:	BY:

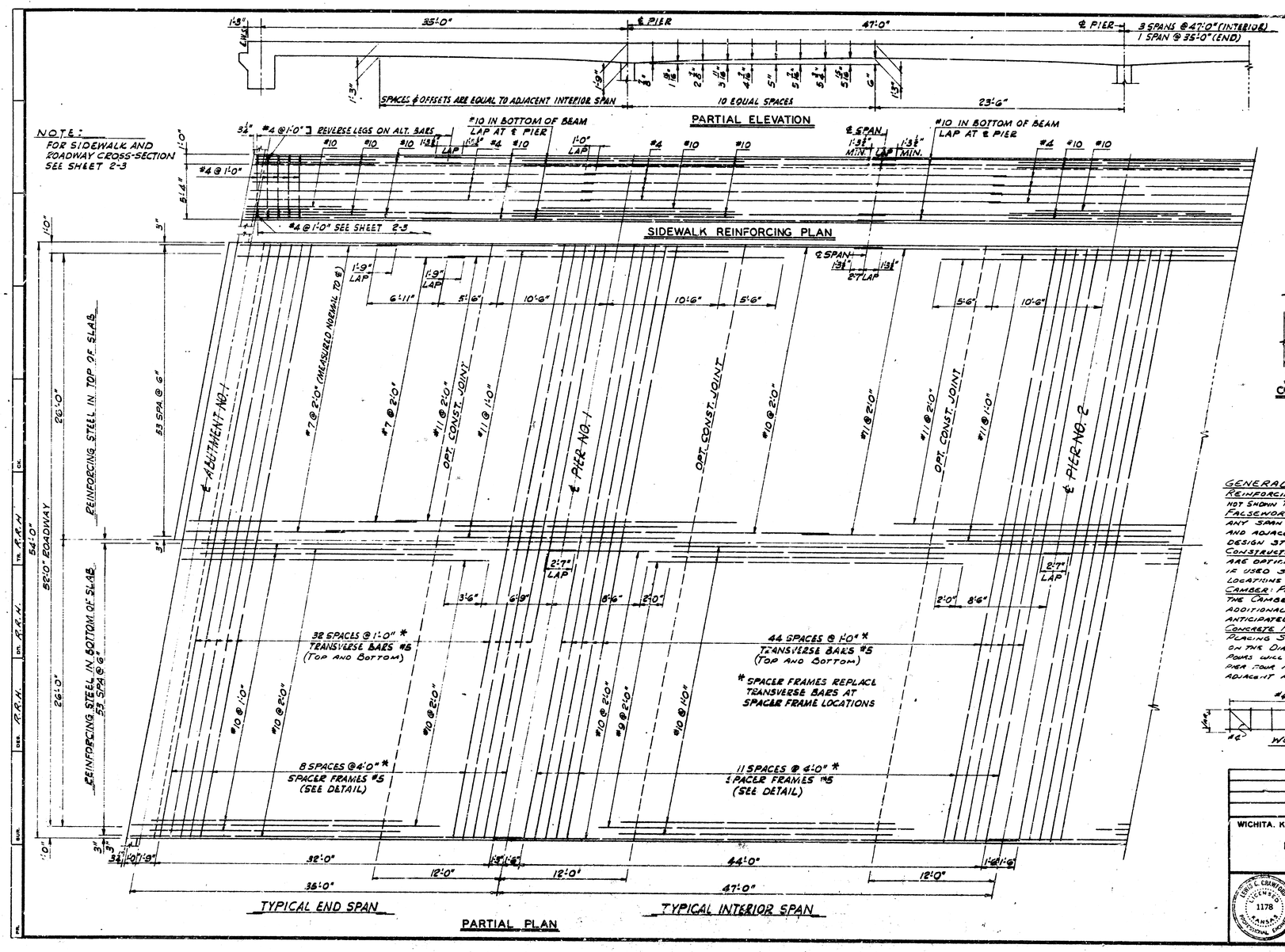
WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

PIER AND MISCELLANEOUS DETAILS

PART II

WILSON & COMPANY ENGINEERS & ARCHITECTS
SALINA — KANSAS

DATE: DEC. 1962
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SHEET NO. 9-3 OF 4



NOTE:
FOR SIDEWALK AND ROADWAY CROSS-SECTION SEE SHEET 2-3

TRANSVERSE SLAB CONSTRUCTION JOINT

WELDED SPACER FRAME

GENERAL NOTES:

REINFORCING: BAR LENGTHS AND SPACINGS NOT SHOWN TO BE SCALED FROM PLANS

FALSEWORK: LEAVE FORMS IN PLACE IN ANY SPAN UNTIL CONCRETE IN THAT SPAN AND ADJACENT SPANS HAS ATTAINED ITS DESIGN STRENGTH.

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS ARE OPTIONAL WITH THE CONTRACTOR, BUT IF USED SHALL BE MADE ONLY AT THE LOCATIONS SHOWN.

CAMBER: PROVIDE CAMBER AS SHOWN ON THE CAMBER DIAGRAM ALONG WITH ADDITIONAL CAMBER TO ACCOMODATE ANY ANTICIPATED DEFLECTION OR FALSEWORK.

CONCRETE PLACING SEQUENCE: CONCRETE PLACING SEQUENCE SHALL BE AS INDICATED ON THIS DIAGRAM, EXCEPT THAT CONTINUOUS POURS WILL BE ALLOWED PROVIDED THAT NO PIER POUR IS MADE WITHOUT INCLUDING ADJACENT MID-SPAN POURS IN THE SAME POUR.

REVISION:	DATE:	BY:

WICHITA, KANSAS — GREIFFENSTEIN BRIDGE

DECK REINFORCING

PART II

LEROY C. CRAWFORD LICENSED 1178 KANSAS PROFESSIONAL ENGINEER

WILSON & COMPANY ENGINEERS & ARCHITECTS SALINA — KANSAS

DATE: DEC. 1962
FILE NO. GE-170
SHEET NO. 2-4
OF 4