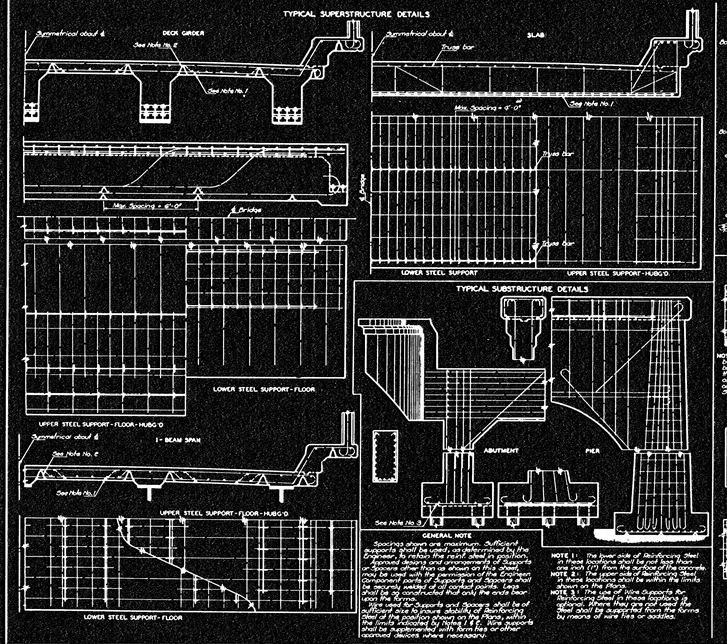
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 ER-164(1)	1974	24	28

DAKB 574005

TYPICAL SUPERSTRUCTURE DETAILS



TYPICAL SUBSTRUCTURE DETAILS

GENERAL NOTE

Spacings shown are maximum. Sufficient supports shall be used, as determined by the Engineer, to restrain the reinforcing steel in position. Spacing, designs and arrangements of supports and spacers not shown on the plans or in the specifications shall be subject to the approval of the Engineer. Component parts of supports and spacers shall be securely welded at all contact points. Legs shall be so constructed that only the ends bear upon the forms.

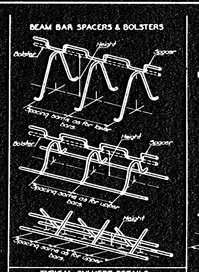
Wire used for supports and spacers shall be of sufficient size to insure adequate rigidity. Spacing of supports shall be such that, within the limits specified by Section 1.17.2, Wire supports shall be supplemented with "form ties or other approved devices where necessary."

NOTE 1: The lower ends of Reinforcing Steel in wall footings shall be cut off flush with the face of the wall. The face of the wall is the concrete.

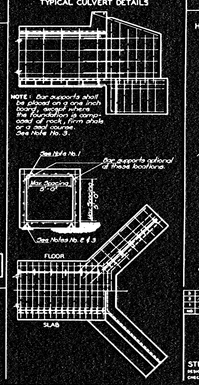
NOTE 2: The upper and lowermost Steel in these locations shall be within the limits shown on the plans.

NOTE 3: The use of Wire Supports for Reinforcing Steel in these locations is discouraged. Where they are not used the Steel shall be placed and held in the forms by means of wire ties or saddles.

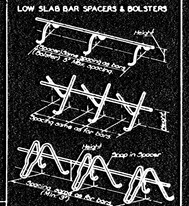
BEAM BAR SPACERS & BOLSTERS



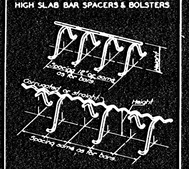
TYPICAL CULVERT DETAILS



LOW SLAB BAR SPACERS & BOLSTERS



HIGH SLAB BAR SPACERS & BOLSTERS



INDIVIDUAL HIGH BAR CHAIRS



STATE HIGHWAY COMMISSION OF KANSAS

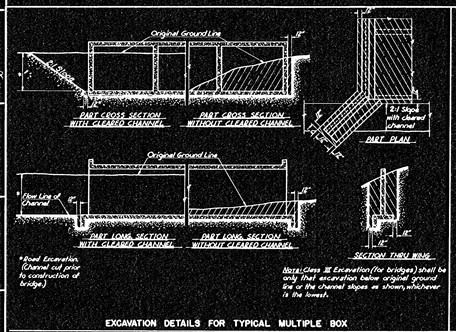
SUPPORTS AND SPACERS FOR REINFORCING STEEL

STD. NO. 610 SCALE: ---- No. Scale

Standard Specifications for State Highway Construction, Adopted by the State Highway Commission of Kansas, January 12, 1961, and the Standard Specifications for Highway Bridges, Adopted by the American Association of State Highway Officials, Fifth Edition, 1961, including Interim Specifications through 1962.

DESIGNED BY C.C. APPROVED BY [illegible] DATE [illegible]

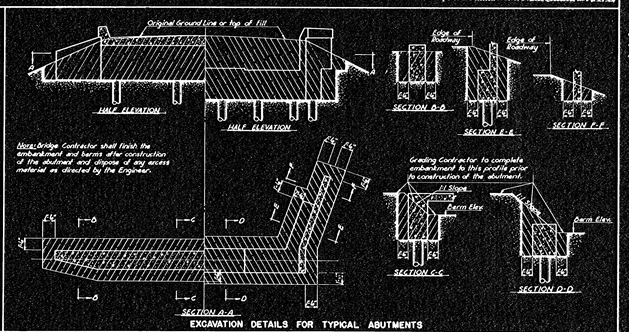
EXCAVATION DETAILS FOR TYPICAL MULTIPLE BOX



*Road Excavation (Channel cut prior to construction of bridge)

Note: Class III Excavation (for bridges) shall be only that excavation below original ground line or the channel slopes as shown, whichever is the lowest.

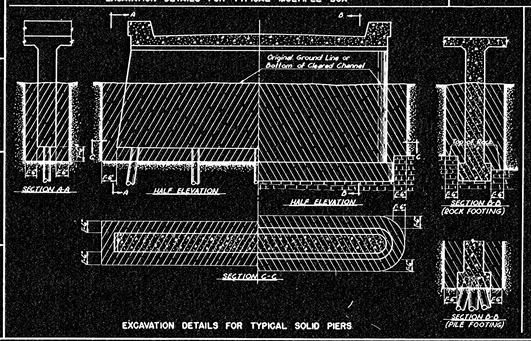
EXCAVATION DETAILS FOR TYPICAL ABUTMENTS



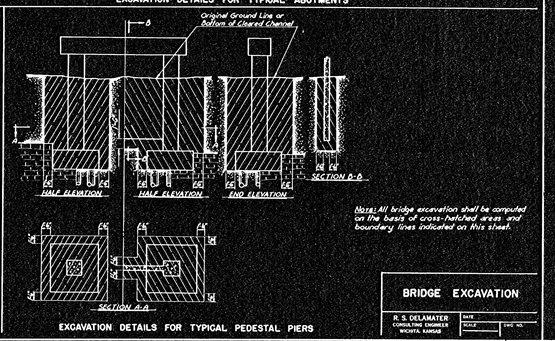
Note: Bridge Contractor shall finish the embankment and berms after construction of the abutment and dispose of any excess material as directed by the Engineer.

Grading Contractor to complete embankment to this profile prior to construction of the abutment.

EXCAVATION DETAILS FOR TYPICAL SOLID PIERS



EXCAVATION DETAILS FOR TYPICAL PEDESTAL PIERS

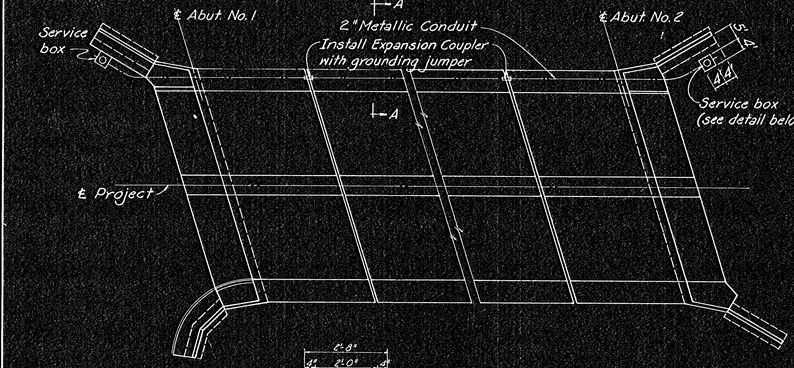


Note: All bridge excavation shall be computed on the basis of cross-hatched areas and boundary lines indicated on this sheet.

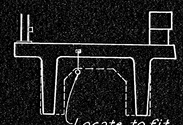
BRIDGE EXCAVATION

R. S. DELAMATER, CONSULTING ENGINEER, WICHITA, KANSAS — DATE — SCALE — SHT. NO.

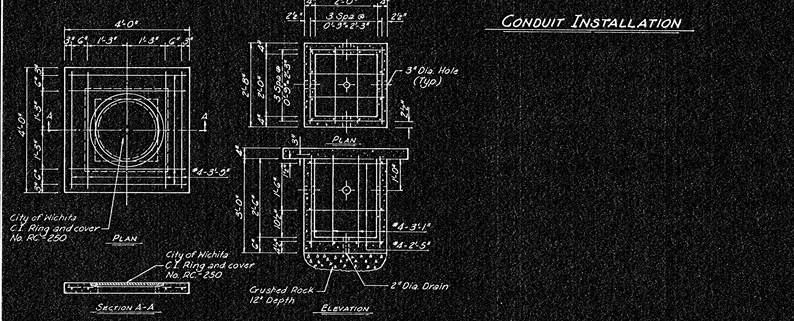
CONDUIT INSTALLATION



Note:
The item of Conduit Installation will include all work and material necessary to install 2" conduit as shown, including pipe hangers and expansion joints, and construction of concrete service boxes as detailed; except that rings and covers for service boxes will be furnished by the City of Wichita, Traffic Engineering Department.

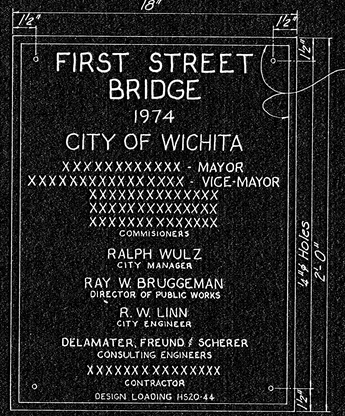


SECTION A-A



SERVICE BOX DETAIL

Bar List
16 #4 2'-5"
12 #4 3'-1"
8 #4 3'-9"



PROJECT MARKER

Note:
XXXX Names as directed by the Engineer, furnished by the City Engineer. Contractor furnish rubbing before casting.

CITY OF WICHITA, KANSAS
R.W. LINN, P.E., CITY ENGINEER

FIRST STREET BRIDGE OVER THE ARKANSAS RIVER

BAR SUPPORTS, BR. EXCAVATION AND MISCELLANEOUS DETAILS

DELAMATER, FREUND & SCHERER, P.A.
CONSULTING ENGINEERS
WICHITA, KANSAS

SCALE ---- DATE June, 1974 DWG. NO. 89-G-24