

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0361-01	2011	37	169

MKEC
ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, K.S. 67206
316-684-9600

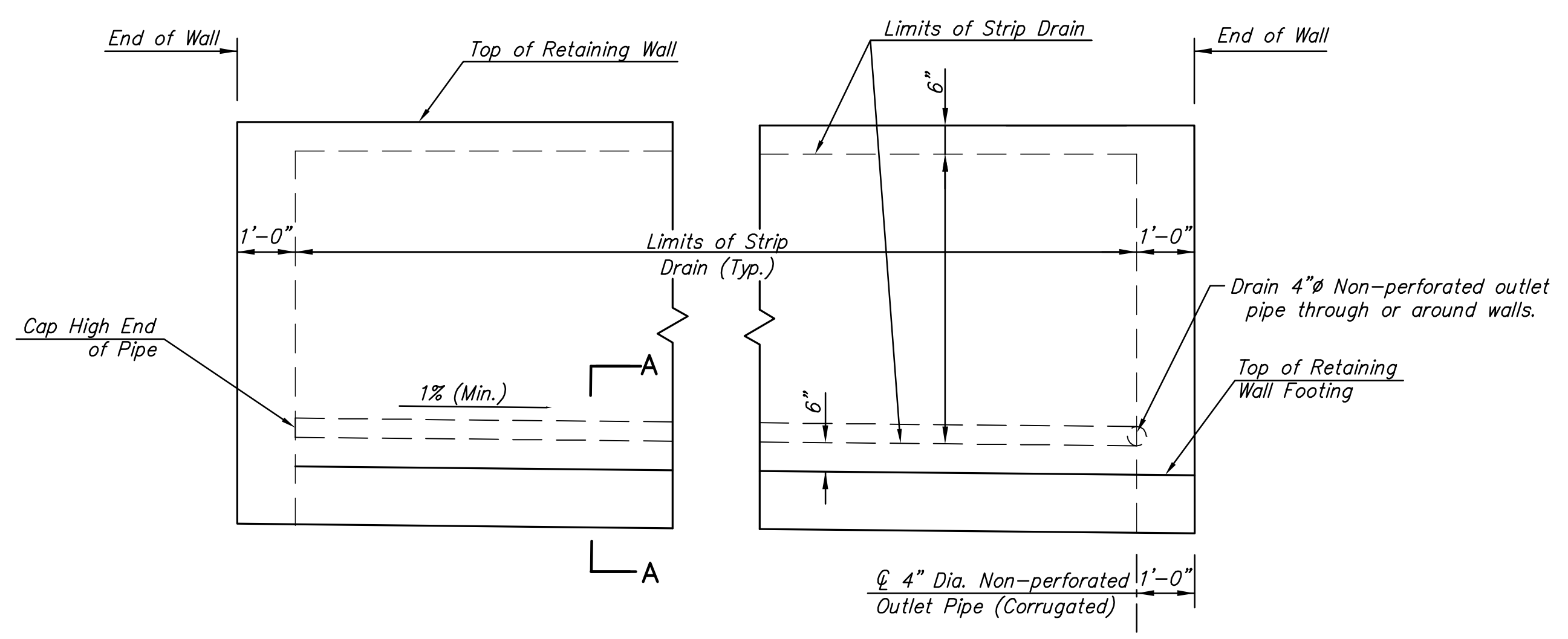
**LINCOLN STREET BRIDGE AND
DAM IMPROVEMENTS OVER
ARKANSAS RIVER**

SUMMARY OF QUANTITIES			
WALL	BID ITEM	QUANTITY (L.F.)	PROJECT
"A"	CONCRETE RETAINING WALL "A"	80.02	Dam
"B"	CONCRETE RETAINING WALL "B"	48.53	Dam
"C"	CONCRETE RETAINING WALL "C"	475.50	Boat/Fish Pass
"D"	CONCRETE RETAINING WALL "D"	485.88	Boat/Fish Pass
"E"	CONCRETE RETAINING WALL "E"	739.68	Portage
"F"	CONCRETE RETAINING WALL "F"	125.57	Lincoln Bridge
"H"	CONCRETE RETAINING WALL "H"	16.00	Lincoln Bridge
"I"	CONCRETE RETAINING WALL "I"	14.00	Lincoln Bridge
"J"	CONCRETE RETAINING WALL "J"	24.00	Lincoln Bridge
"K"	CONCRETE RETAINING WALL "K"	50.75	Lincoln Bridge
"L"	CONCRETE RETAINING WALL "L"	117.87	Portage
"M"	CONCRETE RETAINING WALL "M"	131.45	Portage

For Walls "N", "O", and "P" summary of quantities, see sheet 47.

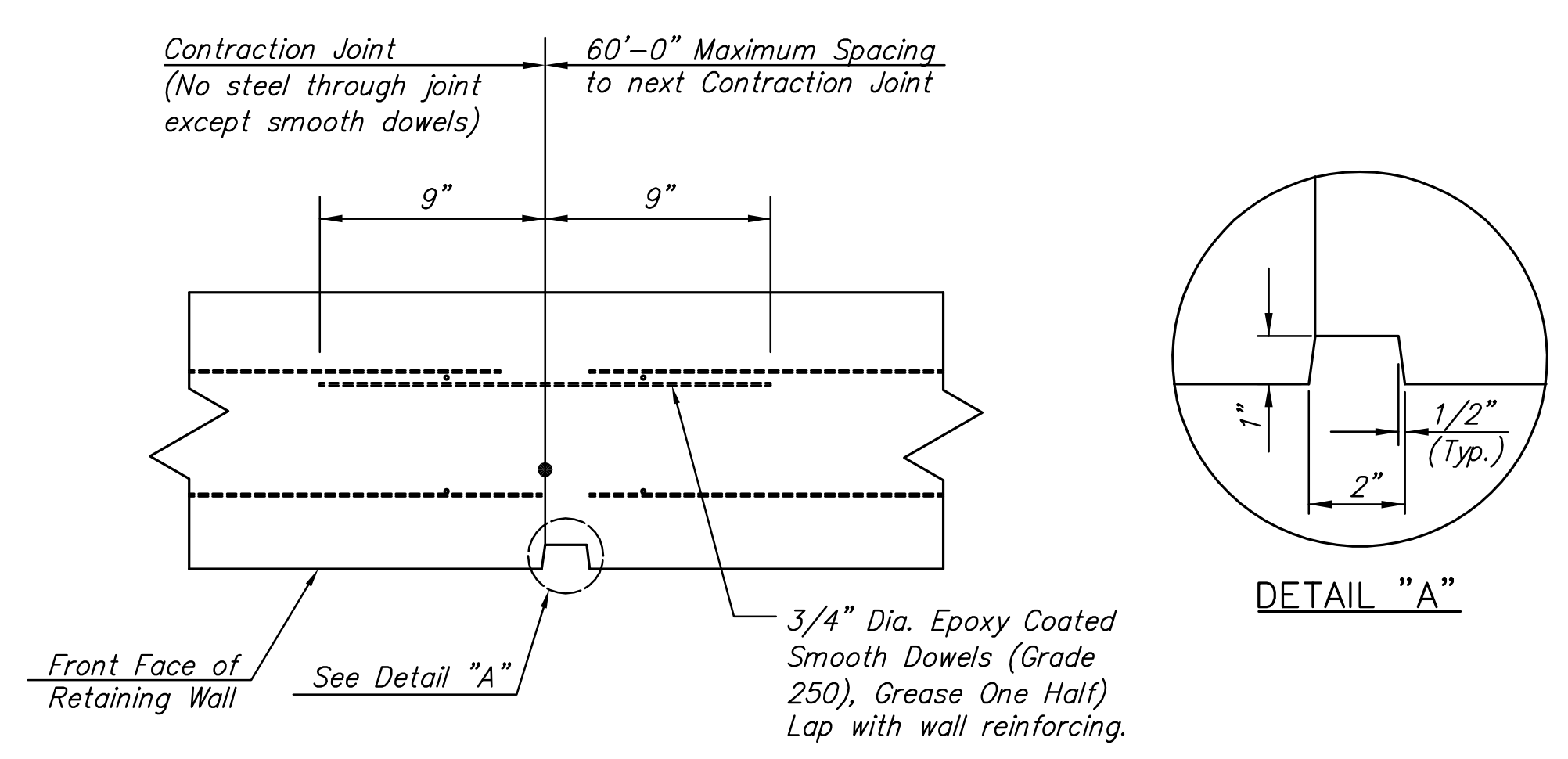
The bid item "CONCRETE RETAINING WALL" shall include all materials and work necessary for wall construction. "CONCRETE RETAINING WALL" shall include concrete, reinforcing steel, dowels, excavation, strip drain, pipe, backfill, compaction, and any other appurtenances.

Wall "G" does not exist.

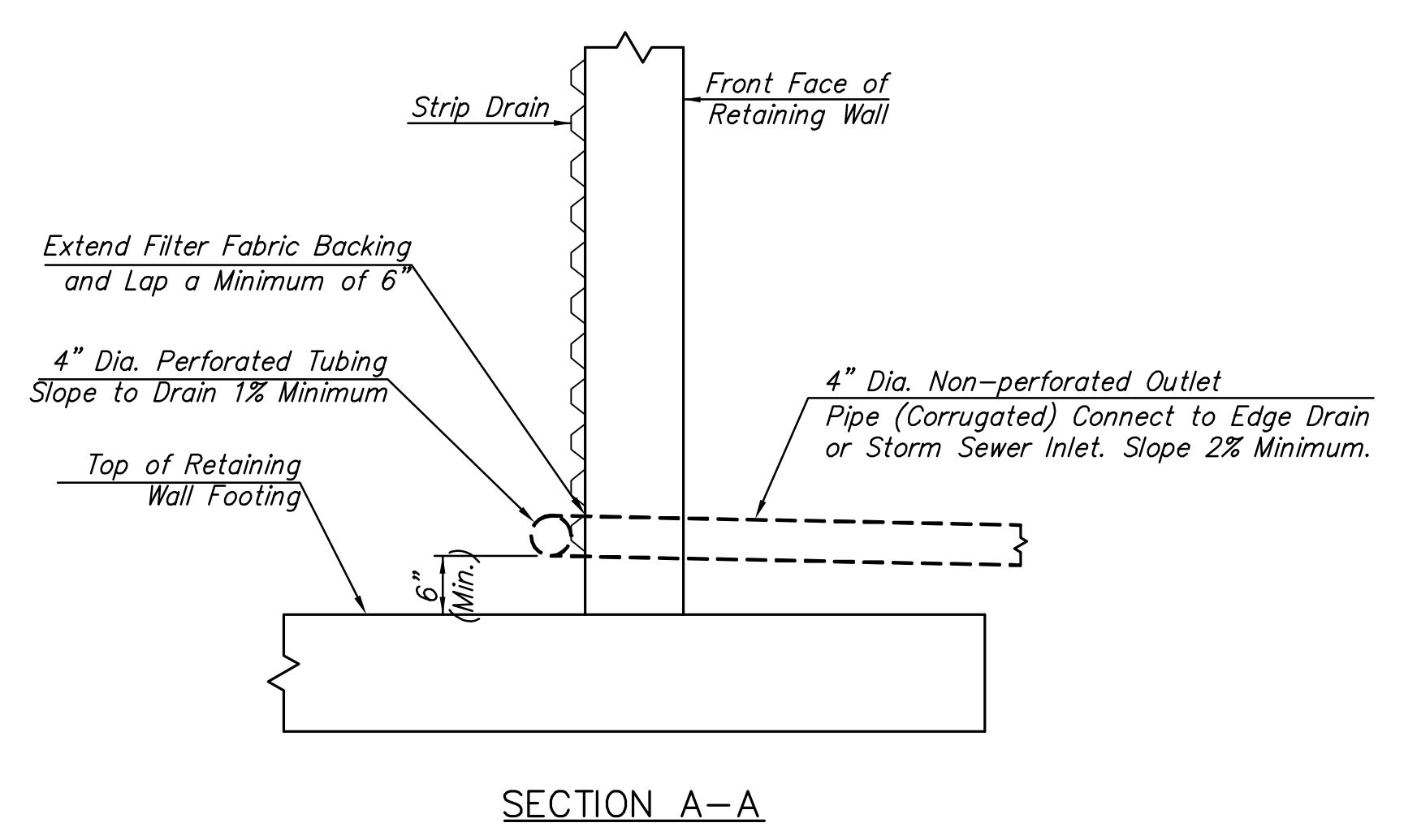


TYPICAL RETAINING WALL DRAINAGE

NOTE: Contraction Joints shall extend from top of the footing to the top of the wall or barrier. A minimum of one day must elapse between placement of wall concrete on adjacent sides of contraction joint.



TYPICAL WALL CONTRACTION JOINT DETAIL



SECTION A-A

WALL DRAINAGE NOTES:

Contractor shall place the strip drain against the back of the wall and place the perforated pipe and the outlet pipe.

Perforated pipe shall be placed next to the strip drain.

Non-perforated pipe shall be used for the outlet pipes. Care shall be taken to enclose the perforated pipe with the extension of the filter fabric.

Strip Drain material shall meet requirements of the Engineer.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing and shall meet requirements of KDOT Specifications.

Any overexcavation below the perforated pipe shall be back filled with cohesive soil, Type C compaction. Strip drain, perforated pipes, outlet pipes and overexcavation back fill shall be included in the price bid for each retaining wall.

Locate outlet pipes, as required, to avoid conflicts with other improvements and existing items to remain.

**CIP
RETAINING
WALL
DETAILS**

SHEET TITLE
472-84883
PROJECT NUMBER

DESIGN BY: JRA
DRAWN BY: PJD
CHECKED BY: JRA

ISSUED: 1/24/2011
REVISED:

SHEET NO.
37 of 169

PLOTED: Tuesday, January 25, 2011 8:50AM

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