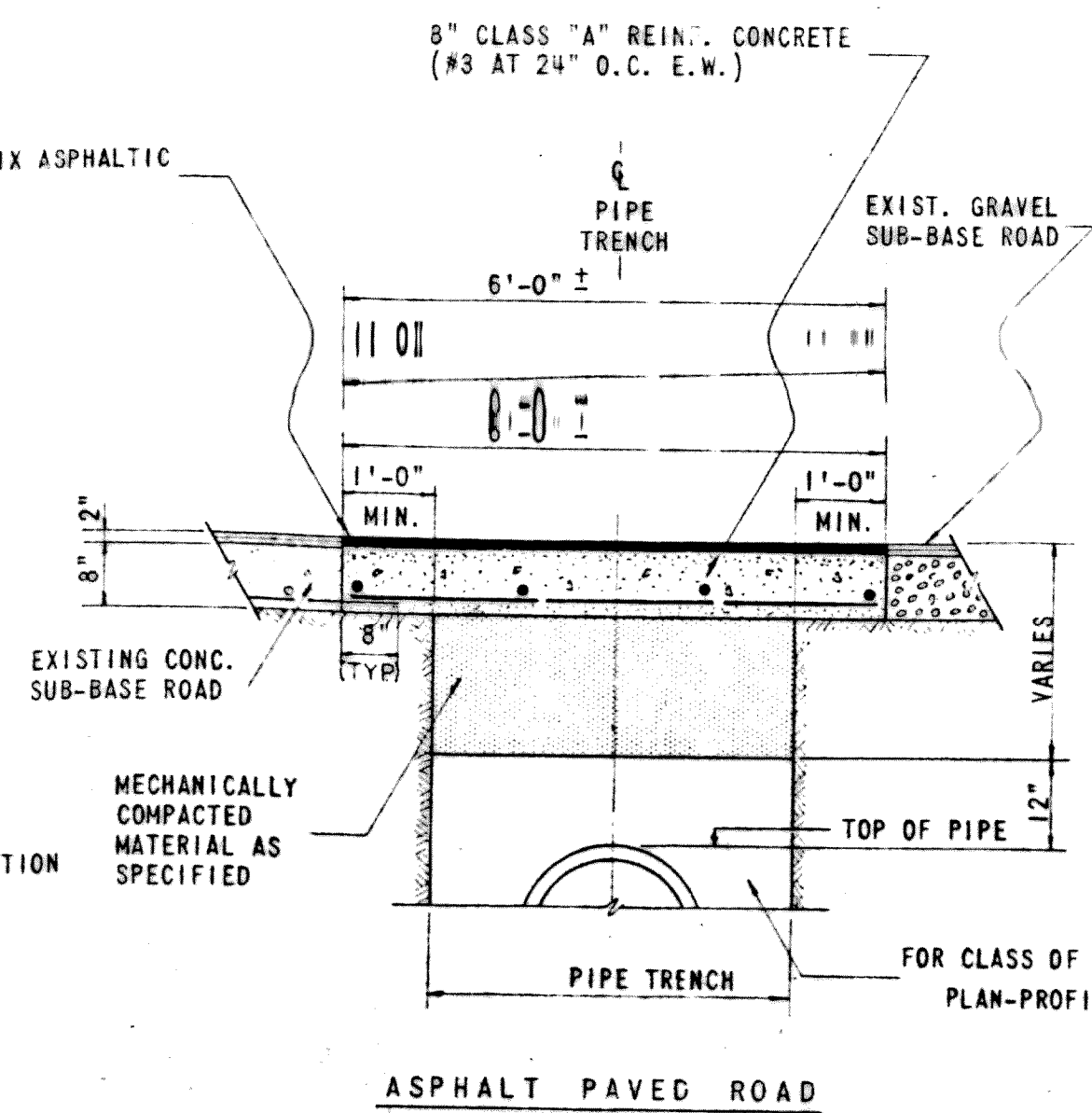
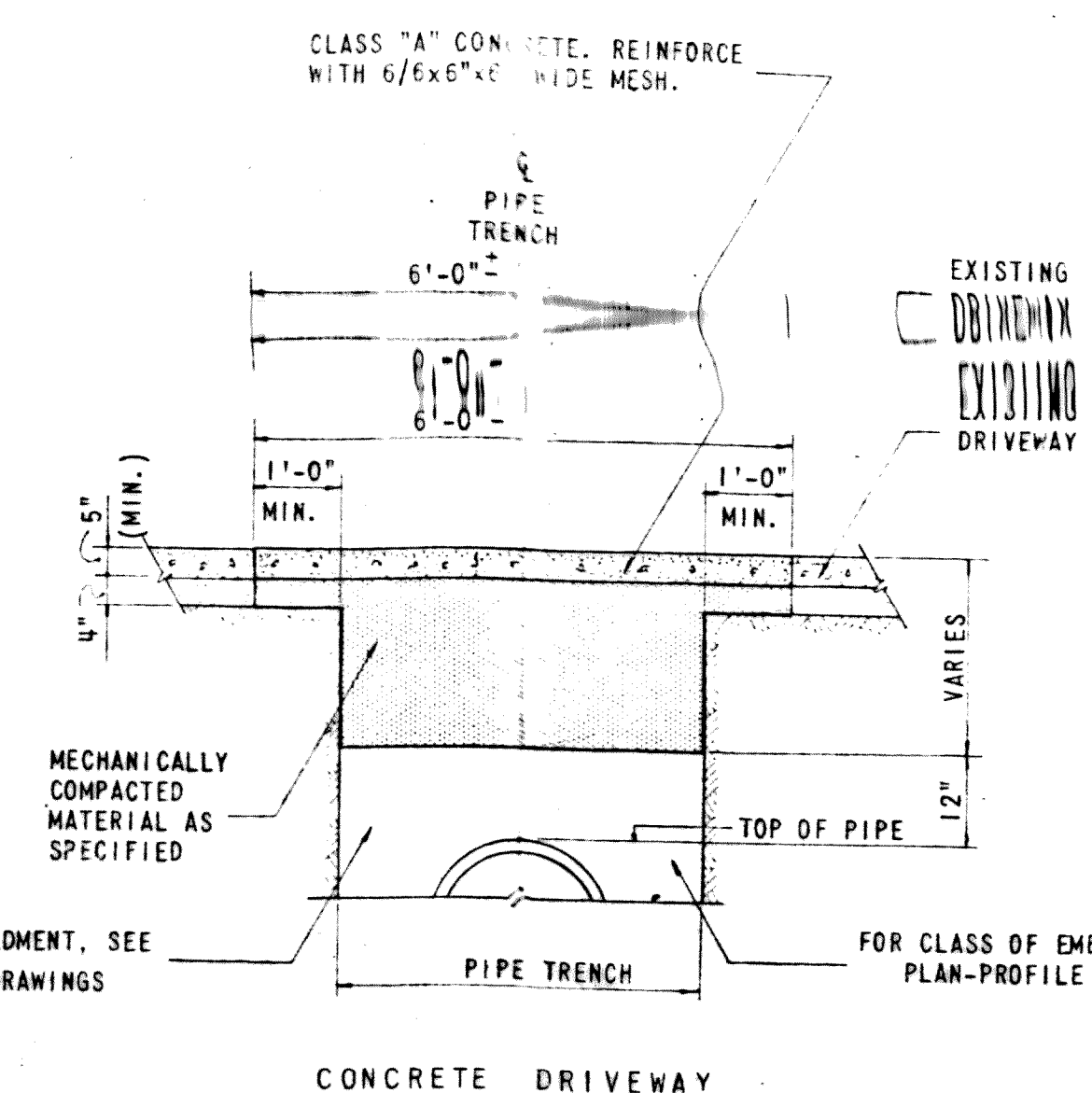


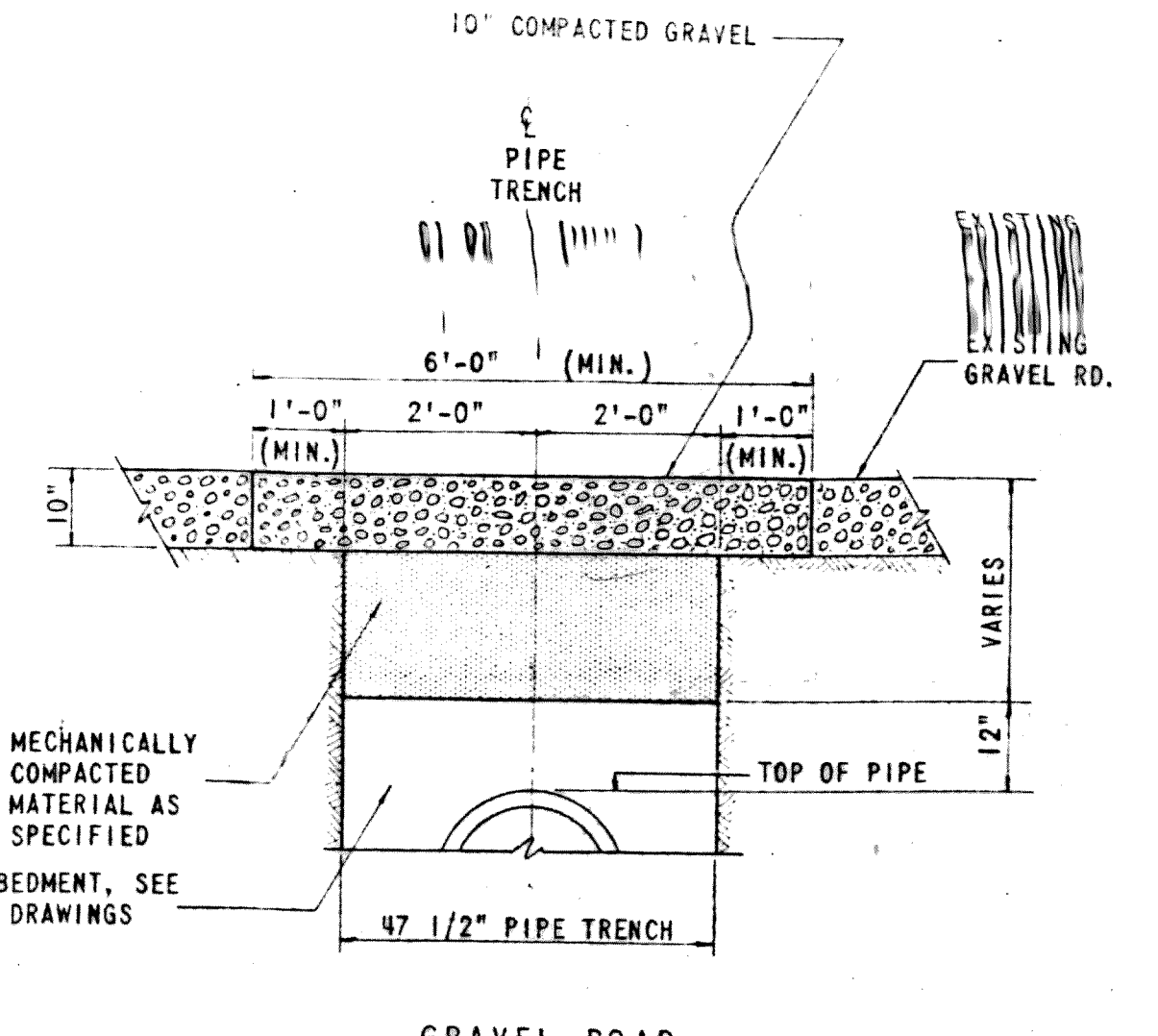
PRETENSIONED CONCRETE CYLINDER PIPE
NOT TO SCALE



ASPHALT PAVED ROAD



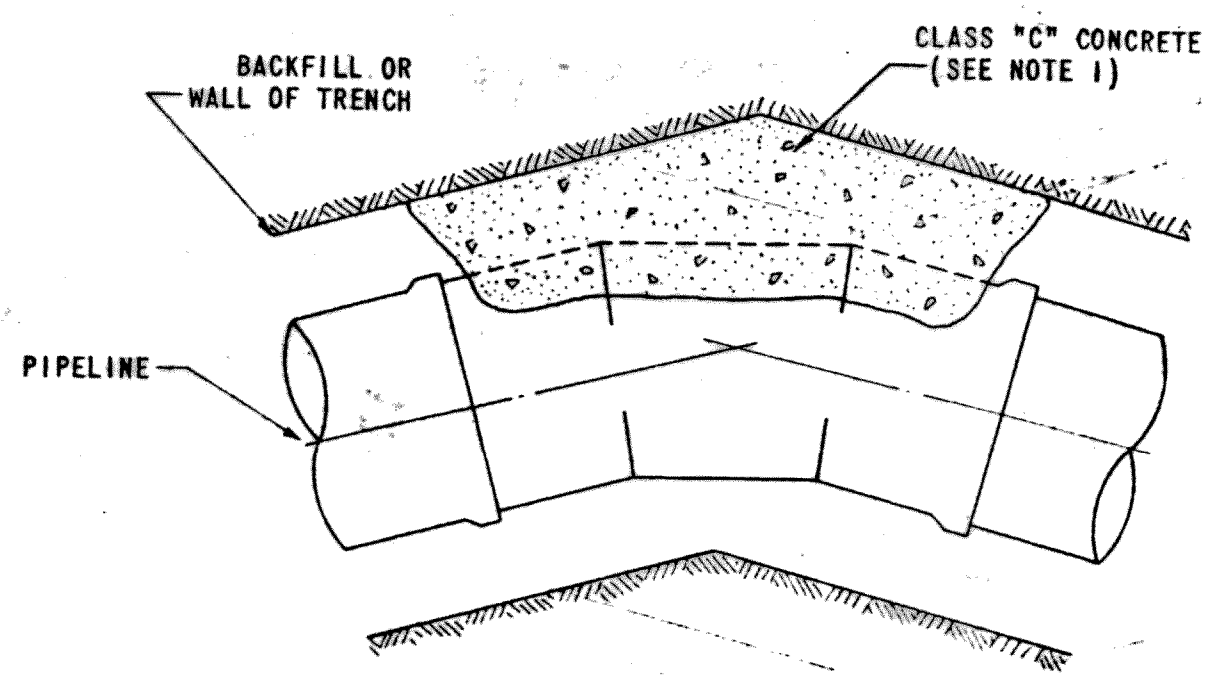
CONCRETE DRIVEWAY



GRAVEL ROAD

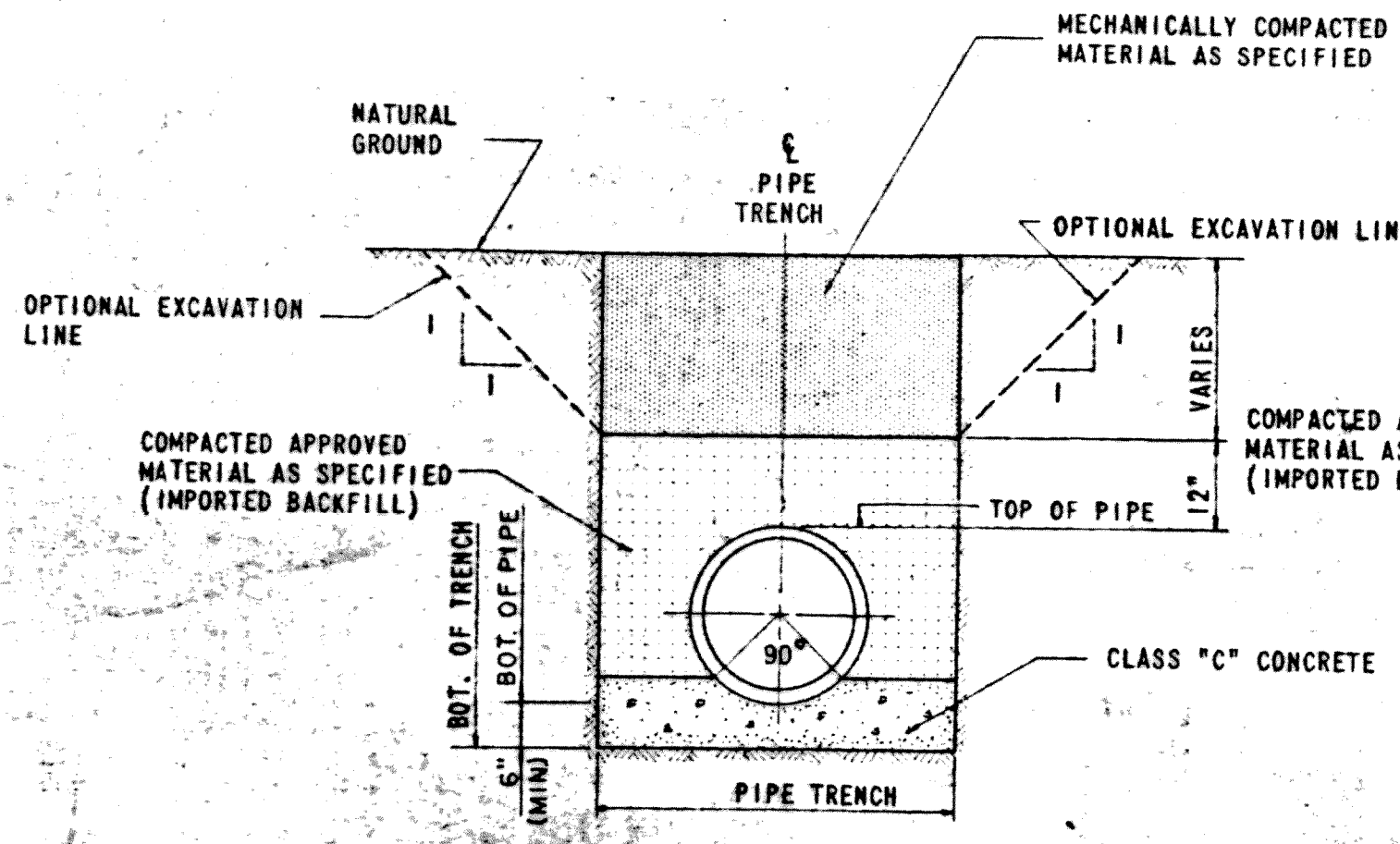
TYPICAL ROAD CROSSINGS

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

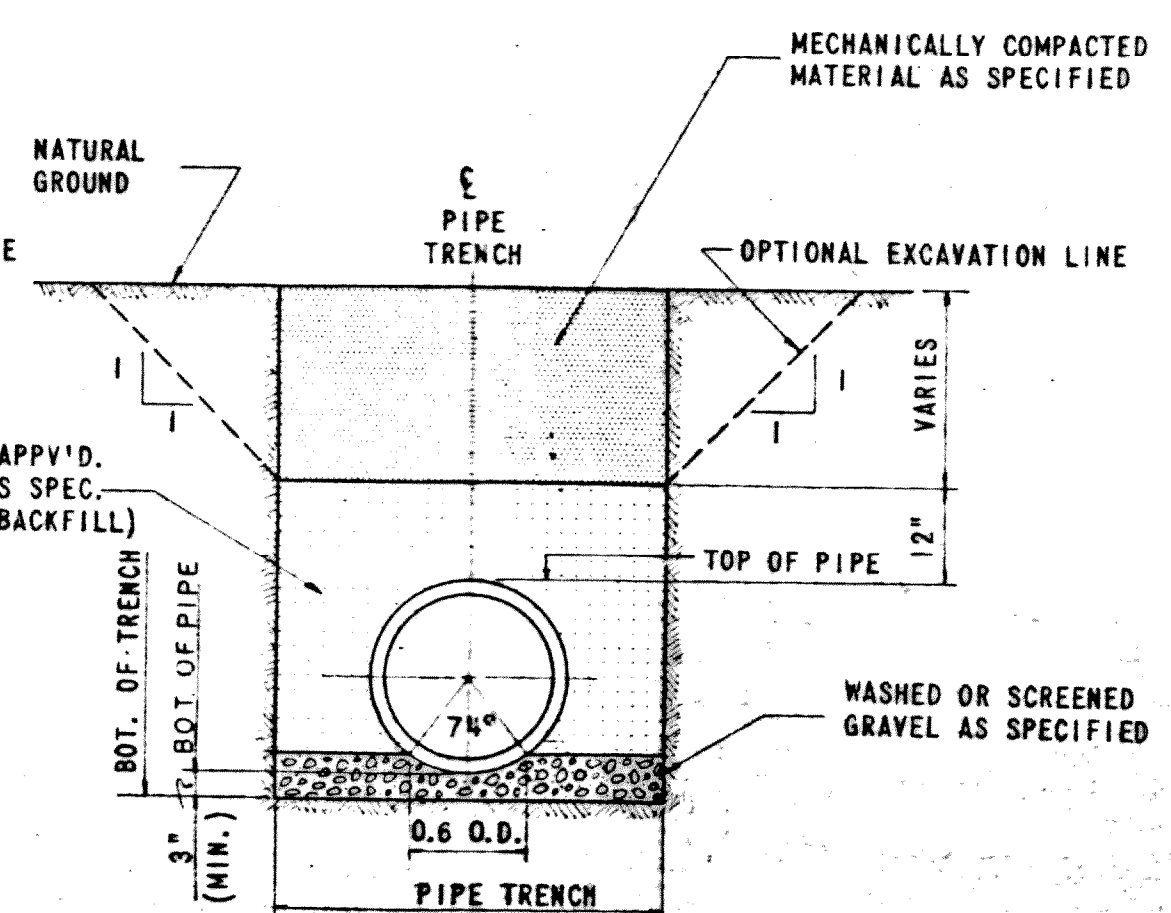


TYPICAL THRUST BLOCK DETAIL
NOT TO SCALE

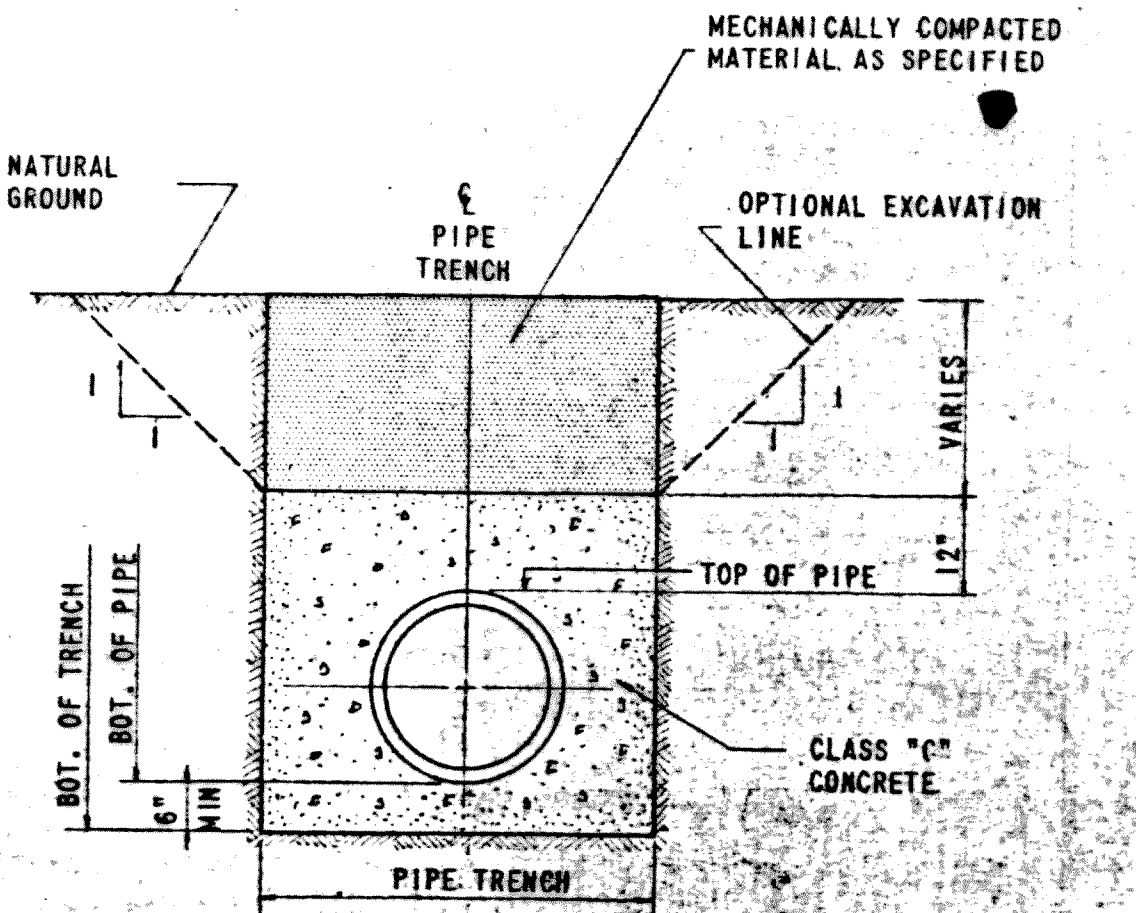
- NOTES:
1. PLACE THRUST BLOCK AGAINST UNDISTURBED WALL OF TRENCH FOR HORIZONTAL BENDS.
 2. PLACE THRUST BLOCKS AT FITTINGS AND DEFLECTIONS OR AS DIRECTED BY THE ENGINEER.
 3. PRICE OF THRUST BLOCK IS INCIDENTAL TO PIPE LINE AND NO SEPARATE PAYMENT WILL BE ALLOWED.



CONCRETE CRADLE



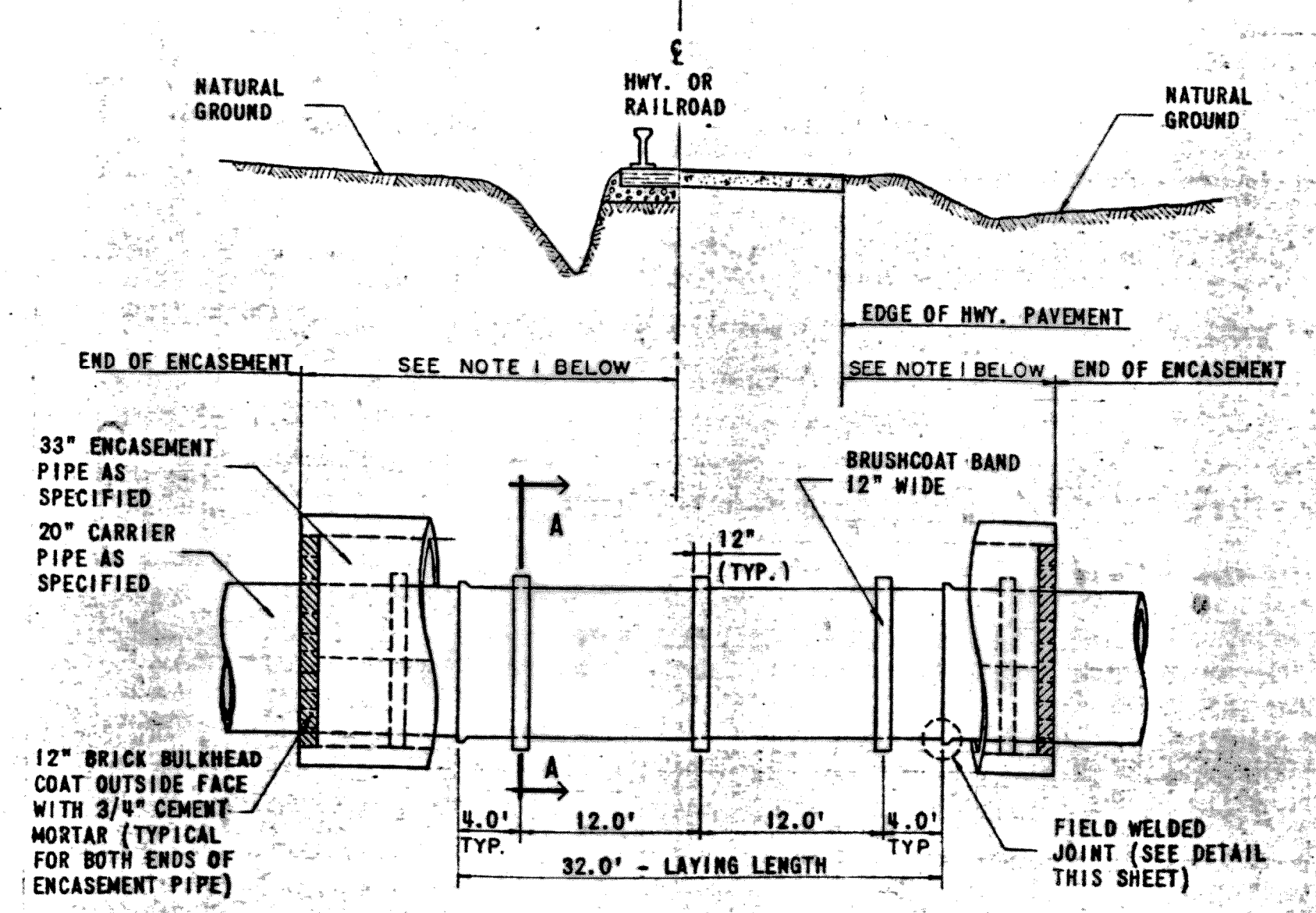
CLASS "I" EMBEDMENT



CONCRETE ENCASEMENT

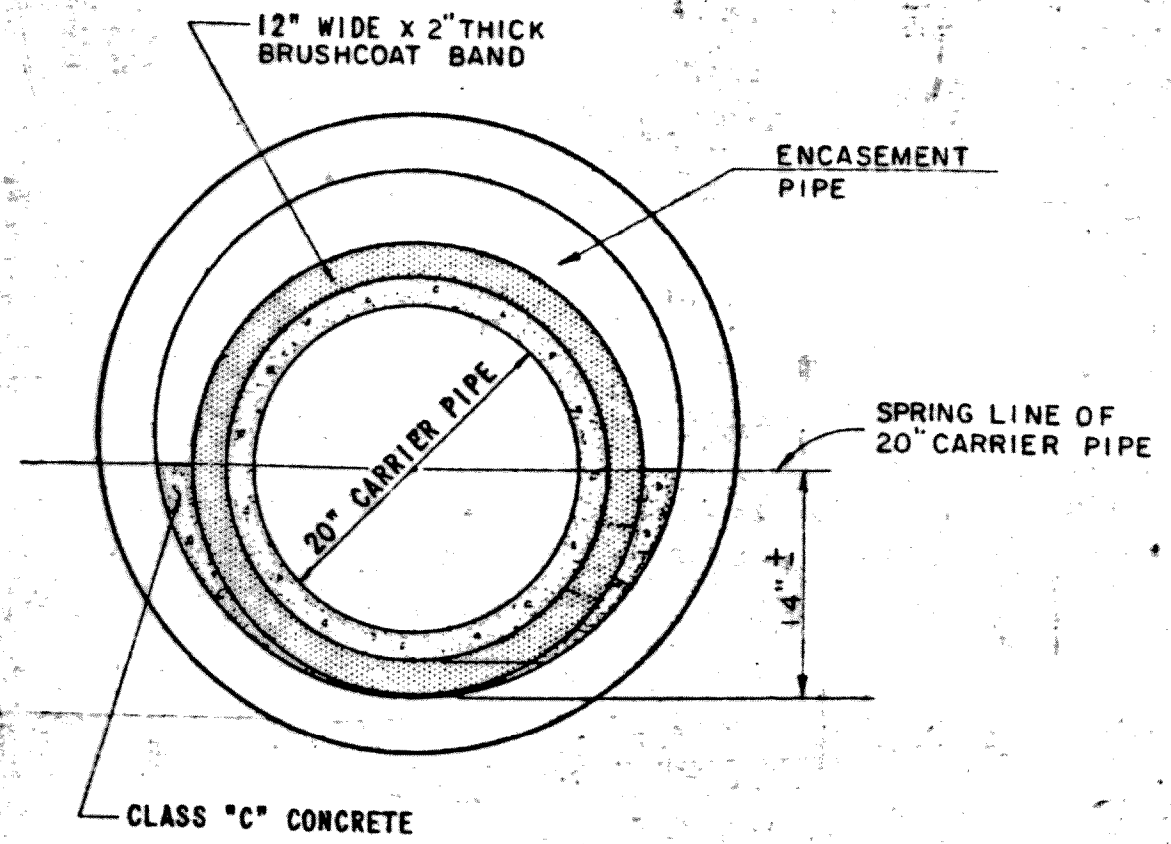
EMBEDMENT DETAILS

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



G.C.&S.F. RAILROAD CROSSING

TYPICAL HWY. CROSSING



SECTION "A-A"

12" BRICK BULKHEAD COAT OUTSIDE FACE WITH 2 1/4" CEMENT MORTAR (TYPICAL FOR BOTH ENDS OF ENCASEMENT PIPE)

NOTES:

1. LENGTH OF ENCASEMENT PIPE SHALL BE AS SHOWN ON PLAN-PROFILE DRAWINGS.
2. LAY ENCASEMENT PIPE IN OPEN CUT OR TUNNELING, AS NOTED IN PLAN-PROFILE DRAWINGS.
3. WHEN TUNNEL IS USED, PLACE CEMENT MORTAR IN ANNULAR SPACE BETWEEN ENCASEMENT PIPE AND TUNNEL.
4. FILL ENCASEMENT PIPE WITH CLASS "C" CONCRETE OR GROUT TO THE SPRING LINE OF 20" CARRIER PIPE.

ENCASEMENT PIPE DETAILS
NOT TO SCALE

TABLE OF QUANTITIES OF CLASS "C" CONCRETE, IMPORTED BACKFILL AND GRAVEL IN CUBIC YARD PER LINEAR FEET FOR EACH CLASS OF EMBEDMENT, BASED ON MAX TRENCH CONDITIONS SHOWN									
SIZE OF PIPE	TYPE OF PIPE	OUTSIDE DIAMETER (INCHES)	TRENCH WIDTH (FEET)		CLASS "I" EMBEDMENT (TRENCH SECTION)		CONCRETE ENCASEMENT (TRENCH SECTION)	CONCRETE CRADLE (TRENCH SECTION)	
			MIN.	MAX.	GRAVEL	IMPORTED BACKFILL	CLASS "C" CONCRETE	CLASS "C" CONCRETE	IMPORTED BACKFILL
20"	PRETENSIONED CONCRETE CYLINDER	25	3.58	4.08	6.31	31.54	41.57	11.04	30.56
12"	PRETENSIONED CONCRETE CYLINDER	16	2.83	3.33	4.47	22.19	29.76	8.10	21.64

THESE DRAWINGS HAVE BEEN PREPARED TO CONFORM TO THE SPECIFICATIONS OF THE PROJECT BY F.W. OTHON
DATE: OCT. 1970
FORREST AND COTTON, INC.
DALLAS, TEXAS



NORTH TEXAS MUNICIPAL WATER DISTRICT WYLIE ROCKWALL PIPELINE	FORREST AND COTTON INC. CONSULTING ENGINEERS DALLAS, TEXAS MAY, 1969	DESIGNED: J.V. GRAHAM DRAWN: F.W. OTHON APPROVED: WILLIAM B. LONDON	FILE NO. 488-9-23 SHEET NO. 23 OF 23 SHEETS
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