STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR

BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS

17″ X 13″ THRU 71″ X 47″ PIPE ARCH 2 2/3 ″ X ½″ CORRUGATIONS - 90° SKEW

SHEET 1 OF 1

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GENERAL NOTES:

-ALL MORTAR JOINTS ARE ½″ ± ⅛″.

-BOND BRICKWORK WITH FULL HEADERS EVERY THREE COURSES.

-CONCAVE TOOL ALL EXPOSED JOINTS.

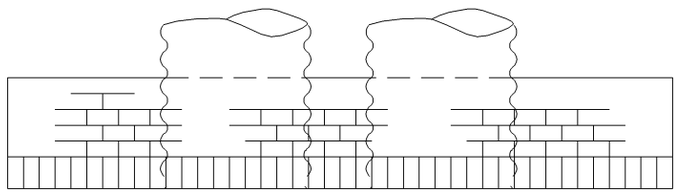
-CONSTRUCT THE BASE WITH FORMS.

-USE CLASS 'B' CONCRETE.

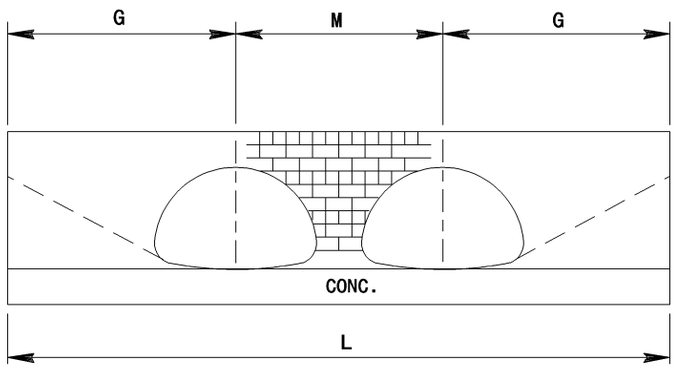
-PAY FOR CONCRETE AS BRICK MASONRY.

-CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK.

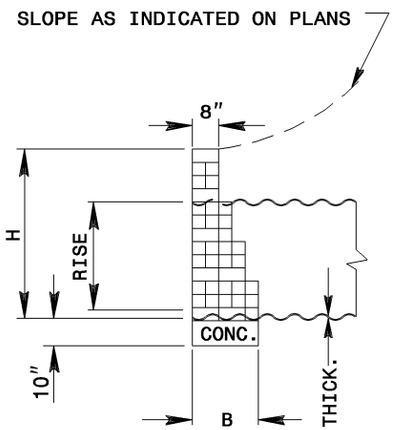
-JUMBO BRICK WILL BE PERMITTED.



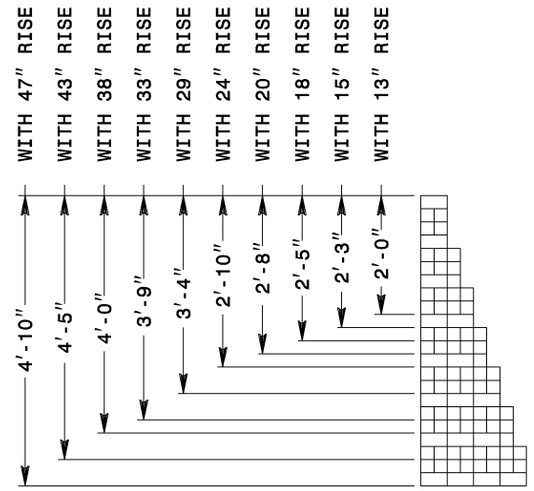
PLAN



ELEVATION



END ELEVATION



TYPICAL SECTION THRU WALL

DIMENSIONS AND BRICK QUANTITIES												
COMMON DIMENSIONS						SINGLE PIPE			DOUBLE PIPE			
SPAN	RISE	GAGE	H	B	G	L	BRICK YD³	CONC. TD³	M	L	BRICK YD³	CONC. YD³
17″	13″	16	2′-0″	1′-4″	2′-9″	5′-6″	0.331	0.226	1′-10″	7′-4″	0.411	0.302
21″	15″	16	2′-3″	1′-4″	3′-1″	6′-2″	0.421	0.254	2′-4″	8′-6″	0.538	0.350
24″	18″	16	2′-5″	1′-8″	3′-7″	7′-2″	0.568	0.369	2′-8″	9′-10″	0.715	0.506
28″	20″	14	2′-8″	1′-8″	3′-11″	7′-10″	0.704	0.403	3′-1″	10′-11″	0.900	0.562
35″	24″	14	2′-10″	1′-8″	4′-7″	9′-2″	0.889	0.472	3′-10″	13′-0″	1.135	0.669
42″	29″	14	3′-4″	2′-0″	5′-5″	10′-10″	1.320	0.669	4′-8″	15′-6″	1.692	0.957
49″	33″	12	3′-9″	2′-4″	6′-1″	12′-2″	2.000	0.876	5′-5″	17′-7″	2.610	1.266
57″	38″	12	4′-0″	2′-4″	6′-11″	13′-10″	2.428	0.996	6′-4″	20′-2″	3.170	1.452
64″	43″	10	4′-5″	2′-8″	7′-9″	15′-6″	3.209	1.276	7′-1″	22′-7″	4.178	1.859
71″	47″	10	4′-10″	2′-8″	8′-10″	17′-8″	4.282	1.454	7′-10″	25′-6″	5.515	2.100

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