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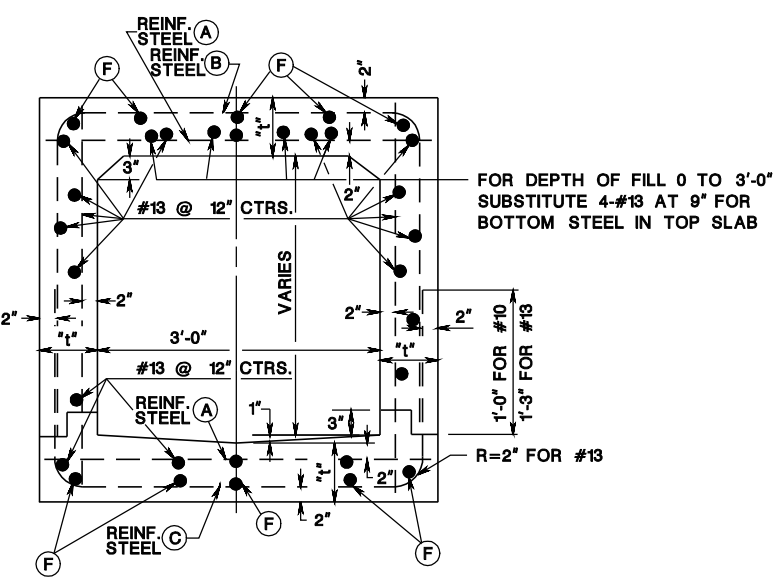
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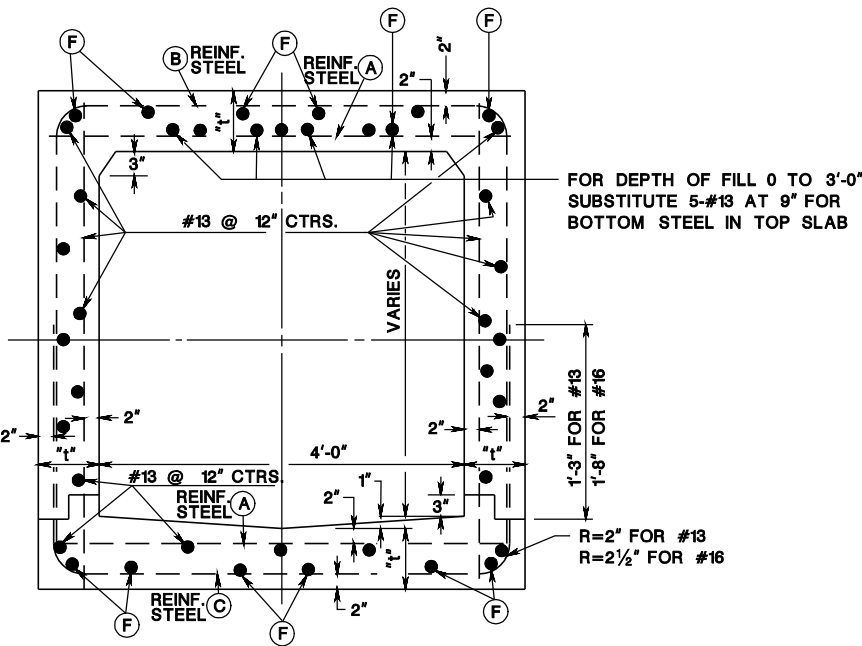
BD-CRD-01-ORIGINAL SHEET

STANDARD 3'-0" CONCRETE CULVERT



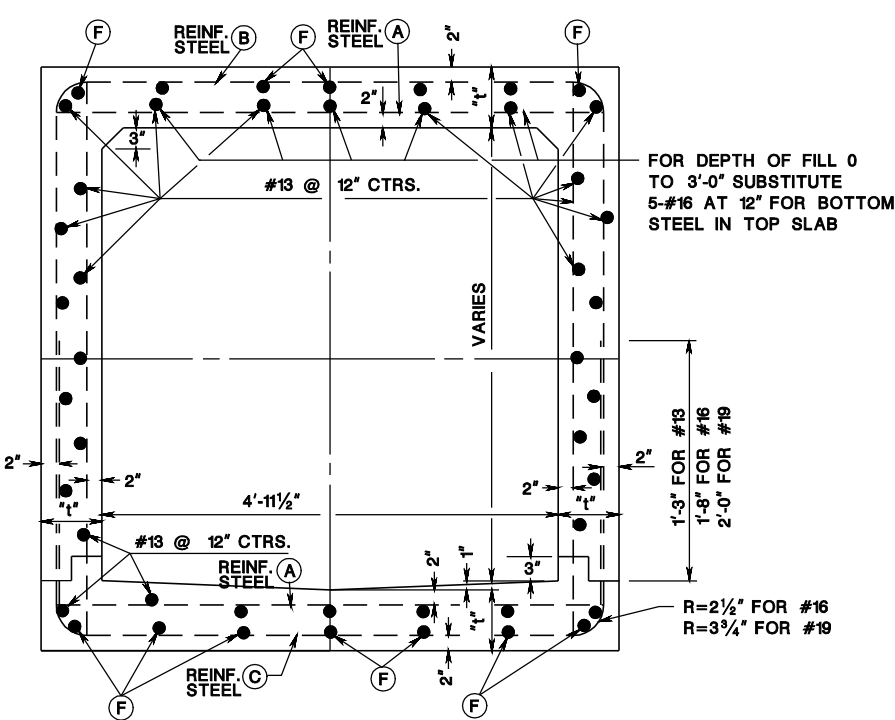
DEPTH OF FILL		REINF. STEEL	SPAN 3 FT.		THICKNESS "4"
MIN.	MAX.		REINF. STEEL	SPACING	
0	3'-0"	A	#13	5"	8"
		B&C	#13	12"	
3'-1"	10'-0"	A	#13	12"	8"
		B&C	#13	12"	
10'-1"	15'-0"	A	#13	9"	8"
		B&C	#13	10"	
15'-1"	20'-0"	A	#13	7"	8"
		B&C	#13	9"	
20'-1"	25'-0"	A	#13	6"	8"
		B&C	#13	7"	

STANDARD 4'-0" CONCRETE CULVERT



DEPTH OF FILL		REINF. STEEL	SPAN 4 FT.		THICKNESS "4"
MIN.	MAX.		REINF. STEEL	SPACING	
0	3'-0"	A	#13	4"	8"
		B&C	#13	10"	
3'-1"	10'-0"	A	#13	9"	8"
		B&C	#13	12"	
10'-1"	15'-0"	A	#13	6"	8"
		B&C	#13	9"	
15'-1"	20'-0"	A	#16	7"	8"
		B&C	#16	10"	
20'-1"	25'-0"	A	#16	6"	9"
		B&C	#16	10"	

STANDARD 4' -11 1/2" CONCRETE CULVERT



DEPTH OF FILL		REINF. STEEL	SPAN 4'-11 1/2"		THICKNESS "4"
MIN.	MAX.		REINF. STEEL	SPACING	
0	3'-0"	A	#16	5"	8"
		B&C	#16	12"	
3'-1"	10'-0"	A	#13	6"	8"
		B&C	#13	9"	
10'-1"	15'-0"	A	#16	7"	9"
		B&C	#16	12"	
15'-1"	20'-0"	A	#16	7"	10"
		B&C	#16	10"	
20'-1"	25'-0"	A	#16	5"	10"
		B&C	#16	8"	
25'-1"	40'-0"	A	#19	6"	11"
		B&C	#19	9"	

**NOTES:**  
TOP AND BOTTOM LAYER OF LONGITUDINAL REINFORCEMENT STEEL (F) TO BE SAME SIZE AS REINFORCEMENT STEEL A, B, & C AND SPACED 12" CTRS.  
FOR BACKFILLING AND EMBANKMENT SEE NJDOT STANDARD SPECIFICATIONS.  
REINFORCEMENT STEEL TO CONFORM TO ASTM A615, GRADE 60.

**NOTE:**  
REINFORCEMENT STEEL IS IN METRIC UNITS.

VOLUME OF CONCRETE AND WEIGHT OF REINFORCEMENT PER LINEAR FOOT OF CULVERT

SIZE OF CULVERT OPENING IN FEET	3'-0" x 3'-0"					4'-0" x 3'-0"					4'-0" x 4'-0"					4' -11 1/2" x 3'-0"					4' -11 1/2" x 4'-0"					4' -11 1/2" x 5'-0"					
MAX DEPTH OF FILL FT.	3	10	15	20	25	3	10	15	20	25	3	10	15	20	25	3	10	15	20	25	3	10	15	20	25	3	10	15	20	25	40
VOLUME OF CONCRETE CU. YD. PER FT.	0.37	0.37	0.37	0.37	0.37	0.42	0.42	0.42	0.42	0.48	0.47	0.47	0.47	0.47	0.54	0.47	0.47	0.54	0.61	0.61	0.52	0.52	0.60	0.67	0.67	0.57	0.57	0.65	0.73	0.73	0.82
REINFORCEMENT LB. PER FT.	53	43	48	53	59	66	50	60	75	79	70	54	63	84	89	88	74	84	89	105	94	81	90	96	114	99	85	95	102	122	150

**NOTE:**  
FIRST DIMENSION OF CULVERT SIZE INDICATES THE SPAN.  
CULVERT TO BE CONSTRUCTED OF CLASS "A" CONCRETE.

SECTION THROUGH KEY OF CONSTRUCTION JOINT  
TO BE CONSTRUCTED IN TOP, WALLS, AND BASE OF CULVERT NOT MORE THAN 35'-0" APART

CONSTRUCTION JOINT OF CULVERT

CD-602-11.2

CONCRETE CULVERT

CONCRETE CULVERT  
N.T.S.

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-602-11

CD-602-11.1