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MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT

PRESTRESSED CONCRETE BOX BEAM
 AND POST-TENSIONING DETAILS

ISSUED: 02/14/11
 SUPERSEDES: / /

POST TENSIONING TENDON LOCATIONS

SPAN LENGTH	LOCATIONS	TOTAL
UP TO 50'	1 AT EACH END OF BEAM WITH 2 AT CENTER OF SPAN (11' APART)	4
OVER 50' TO 62'	1 AT EACH END OF BEAM WITH 1 AT CENTER OF SPAN AND 1 AT EACH QUARTER POINT	5
OVER 62' TO 100'	1 AT EACH END OF BEAM WITH 2 AT CENTER OF SPAN (11' APART) AND 1 AT EACH QUARTER POINT	6
OVER 100'	1 AT EACH END OF BEAM WITH 5 EQUALLY SPACED BETWEEN	7
	END OF BEAM LOCATIONS USUALLY 10"± PERPENDICULAR FROM ϕ OF BEARING	

POST TENSIONING FORCE PER DIAPHRAGM / END BLOCK

	FORCE (ALL SITUATIONS)	
	120 KIPS	

VERTICAL POST TENSIONING TENDON LOCATIONS

BEAM DEPTH	AT EACH LOCATION	TOTAL
12"	1 TENDON 5 $\frac{1}{2}$ " BELOW TOP OF BEAM	1
17", 21", 27"	1 TENDON AT MID-DEPTH OF BEAM	1
33", 39", 42", 48"	1 AT EACH $\frac{1}{3}$ POINT OF BEAM DEPTH	2
54", 60"	1 AT EACH $\frac{1}{4}$ POINT OF BEAM DEPTH	3

PREPARED BY
 DESIGN DIVISION

6.65.13A