DETAIL OF PRECAST CONCRETE BOX CULVERT M273

COUNTY SHEETS NO. SECTION JASPER 546 299 STA. TO STA. OJECT

D. ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PRO
5,6)Y,F ONTRAC						

2"		2" +
y 1/2" 2" R	1 - 5	1" 1/2" ×
x 1"-	}	/ 1" R
2"	END DETAIL IS SUBJECT TO VARIATION	2"
<u>DETAIL A</u> (TYP. INLET END)	BY FABRICATOR	<u>DETAIL B</u> (TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

AASHTO DESIGNATION M273 (WITH LESS THAN 2' OF COVER)

DESIGN LOADING:

TABLE 1 = HS20

TABLE 2 = INTERSTATE LOADING

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 504.06 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS As1, As2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55 OR M221. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BARS CONFORMING TO AASHTO M31, GRADE 60, AND SHALL BE A706.

LIFTING HOLES SHALL BE FILLED IN ACCORDANCE WITH 540.02 OR PROJECT SPECIAL PROVISIONS.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP

THE P.C.C. PAVEMENT PATCH REINFORCED WITH PAVEMENT FABRIC (STANDARD 420701) WILL BE CONSTRUCTED OVER THE CULVERT. THE PATCH SHALL BE FULL PAVEMENT WIDTH, AND THE LENGTH SHALL EXTEND 2' BEYOND EACH SIDE OF THE CULVERT.

DESIGN FILL HEIGHT (F):

MAXIMUM FILL HEIGHT (fmax) AND MINIMUM FILL HEIGHT (fmin) ARE MEASURED BETWEEN THE EXTREME EDGES OF SHOULDER.

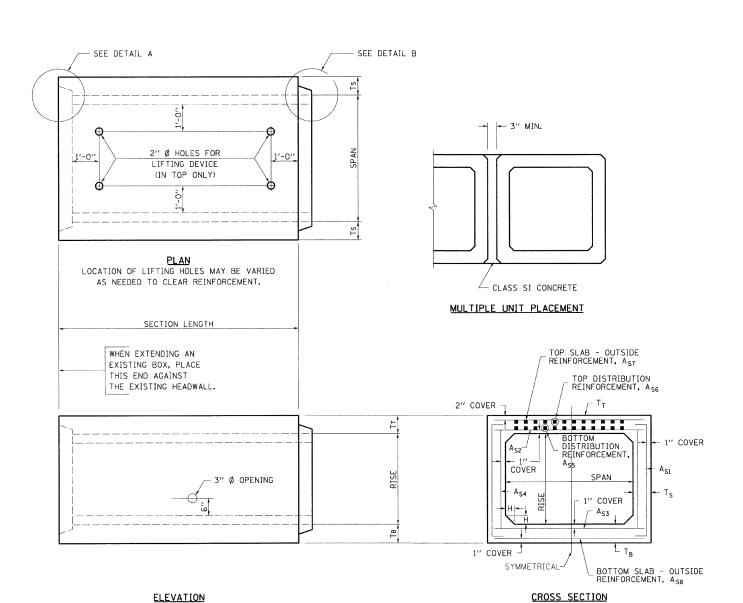
fmax/fmin (FT)	F (FT)	AASHTO
fmin < 2'	< 2′	M273
2′ ≤ fmin < 3′	2'	M259
3′ ≤ fmin < 4′	3′	M259
fmin ≥ 4′	fmax	M259

DESIGN FILL HEIGHTS APPLY TO ENTIRE CULVERT, INCLUDING EXTENSIONS AND END SECTIONS.

SIZ	CULVERT SIZE (FEET)		DIMENSIONS (INCHES)	
SPAN	RISE	T_T	T _B	Ts
3	2 3	7	6 6	4 4
4 4 4	2 3 4	7 1/2 7 1/2 7 1/2	666	5 5 5
5 5 5	3 4 5	8 8 8	7 7 7	6 6
6 6 6	3 4 5 6	8 8 8 8	7 7 7 7	7 7 7 7
7 7 7 7	4 5 6 7	8 8 8	8 8 8 8	8 8 8
8 8 8 8	4 5 6 7 8	8 8 8 8	8 8 8 8 8	8 8 8 8
9 9 9 9	5 6 7 8 9	9 9 9 9	9 9 9 9	9 9 9 9
10 10 10 10 10	5 6 7 8 9	10 10 10 10 10 10	10 10 10 10 10	10 10 10 10 10
11 11 11 11	4 6 8 10 11	11 11 11 11	11 11 11 11	11 11 11 11
12 12 12 12 12	4 6 8 10 12	12 12 12 12 12	12 12 12 12 12	12 12 12 12 12

* "T" MAY BE LARGER THAN SHOWN ON TABLE, PER AASHTO SPECIFICATIONS.





1"=5Ø' 8/07/00 IDOTPL-50