



NOTES:

- FABRICATION OF ALL STEEL GRATING SHALL BE IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM) HEAVY DUTY METAL BAR GRATING MANUAL.
- ALL STEEL SHALL CONFORM TO ASTM A 1011/A 1011M, COMMERCIAL STEEL (CS TYPE 2) FOR HOT ROLLED CARBON STEEL SHEET AND STRIP AND ASTM A 36/A 36M FOR STRUCTURAL STEEL BARS, AND ASTM A 500 GRADE B (F_y=46 ksi) FOR STRUCTURAL TUBING.
- THE GRATES SHALL BE CONSTRUCTED SUCH THAT THE BEARING BARS SPAN THE SHORTEST DIMENSION OF THE JUNCTION CHAMBERS.
- ALL BEARING BARS SHALL BE 3/2" x 3/8" RECTANGULAR BARS EXCEPT FOR THE ACCESS HATCH GRATING, WHICH SHALL BE CONSTRUCTED OF 3" x 1/4" RECTANGULAR BEARING BARS. ALL BEARING BARS SHALL BE SPACED AT 1 3/8" CENTER-TO-CENTER.
- CROSS BARS SHALL BE SPACED 4" CENTER-TO-CENTER AND WELDED AT RIGHT ANGLES TO BEARING BARS AT EACH BEARING BAR/CROSS BAR INTERSECTION.
- ALL SURFACES SHALL BE GALVANIZED BY THE HOT DIP PROCESS AFTER FABRICATION, WITH A COATING OF NOT LESS THAN 1.8 OZ. PER SQUARE FOOT OF EXPOSED SURFACE.
- THE STEEL GRATING SHALL HAVE ONE ACCESS HATCH ON JUNCTION CHAMBERS WITHOUT RESTRICTOR WALLS OR PLATES. ALL JUNCTION CHAMBERS WITH RESTRICTORS SHALL HAVE TWO ACCESS HATCHES LOCATED AT OPPOSITE CORNERS.

JUNCTION CHAMBER NO.	A (SHORT SPAN)	B (LONG SPAN)
1	7'-1"	9'-3"
2	6'-1"	6'-3"
3	5'-1"	7'-9"
4	4'-4"	7'-9"
5*	2'-7"	10'-5"
6	4'-4"	7'-3"

* SEPARATE ACCESS HATCH NOT REQUIRED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 3545
IL RTE 56 (BUTTERFIELD ROAD)

DRAINAGE DETAILS

SCALE: NTS
DATE: 2/20/04

DRAWN BY: SMP
CHECKED BY: TA