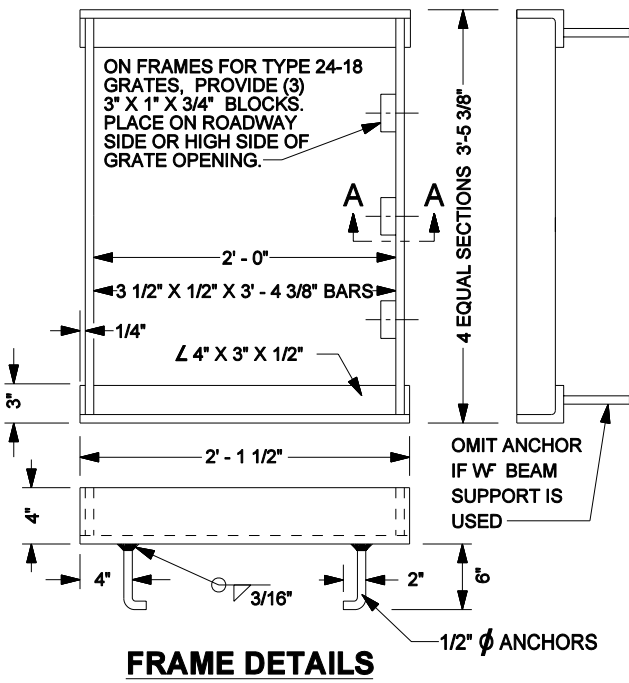


GRATE DETAILS
(SEE TABLE BELOW)

TYPE	NO. BARS	" W "	" X "	USAGE
24 - 9	9	2"	1 9/16"	USE IN LOCATIONS OFF THE ROADBED ON ALL TYPES OF HIGHWAYS
24 - 12	12	1 3/8"	1 1/4"	USE WITHIN THE ROADBED ON HIGHWAYS WHERE BICYCLES AND PEDESTRIANS ARE EXCLUDED, OR FOR RURAL CONDITIONS.
24 - 18	18	3/4"	15/16"	USE WITHIN THE ROADBED UNDER URBAN CONDITIONS WHERE BICYCLES AND PEDESTRIANS ARE PERMITTED.

WEIGHTS		
TYPE	WELDED	BOLTED
24 - 9	200	230
24 - 12	258	286
24 - 18	372	400
24" FRAME	90	—



GENERAL NOTES:

- ① GRATE TYPE NUMBERS REFER TO WIDTH OF GRATE IN INCHES AND NUMBER OF BARS RESPECTIVELY.
- ② CONTRACTOR HAS THE OPTION OF USING WELDED OR BOLTED GRATES.
- ③ GRATES AND FRAMES TO BE PAINTED.
- ④ ROUNDED TOP OF BARS OPTIONAL ON ALL GRATES.
- ⑤ GRATE SHALL BE PLACED SO THAT BARS ARE PARALLEL TO DIRECTION OF PRINCIPAL SURFACE FLOW.
- ⑥ GRATE SHALL BE HOT DIPPED GALVANIZED.

NOT TO SCALE

APPROVED BY: DATE: 11/15/04 DIRECTOR OF TRANSPORTATION GEORGE A. JOHNSON, RCE 42328	COUNTY OF RIVERSIDE GRATE AND FRAME DETAIL STANDARD NO. 305																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> <th>REV.</th> <th>BY:</th> <th>APR'D</th> <th>DATE</th> <th>REV.</th> <th>BY:</th> <th>APR'D</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>8-71, 3-82</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>11-04</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>6</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE	8-71, 3-82		1				4				11-04		2				5						3				6				
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