

SST PL 20x125x125 —

CONCRETE SLAB OR BEAM

2 - 15Mx1200 EACH WAY

REINFORCING, SEE PLANS -

1. MAXIMUM LOAD RATING FOR LIFTING EYE: 900 kg

2. SUBMIT DATA ON EYE BOLT WITH SHOP DRAWINGS.

CENTERED ON PLATE

@ 50 SPACING UNDER

PLATE, FOR ADDITIONAL

LIFTING EYE

1. WHERE BOTH ENDS OF BEAM ARE ATTACHED TO A WALL, PROVIDE LONG HORIZONTALLY SLOTTED HOLES IN BEAM WEB AT ONE END. TIGHTEN NUTS SNUG TIGHT, BACK OFF 1/2 TURN, AND LOCK WITH DOUBLE NUT.

MONORAIL DETAILS

NTS

EA SIDE

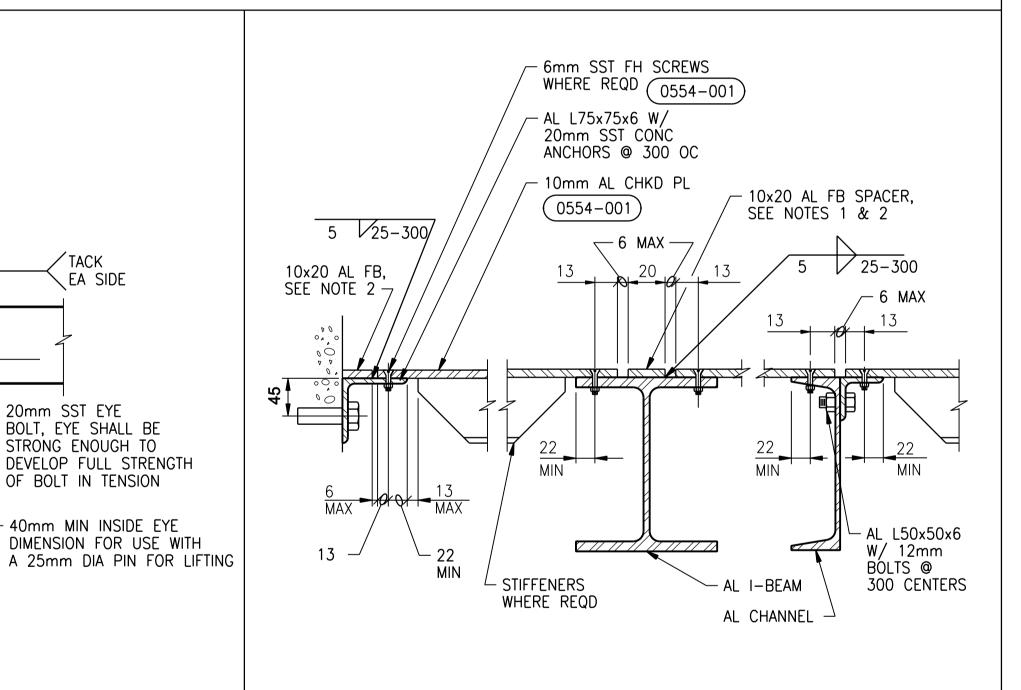
20mm SST EYE

BOLT, EYE SHALL BE

STRONG ENOUGH TO

OF BOLT IN TENSION

0512-121



(0512-101)

(0554-002)

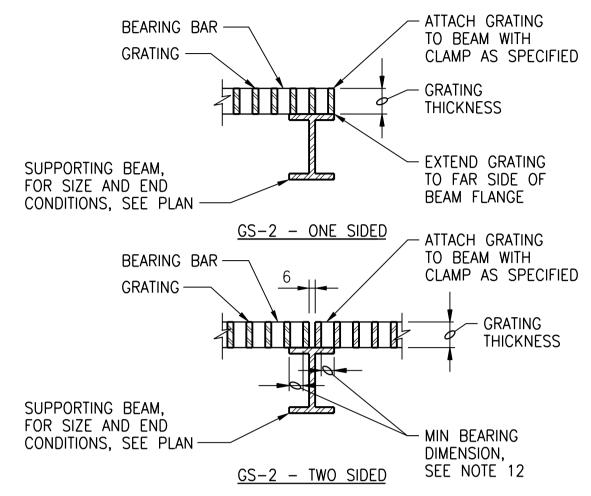
NOTES:

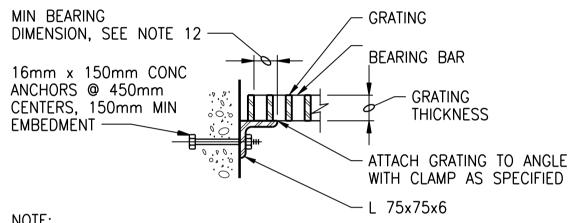
- 1. PROVIDE AL FB 10mm AT CL SUPPORT WHERE FLANGE WIDTH (OR FLANGE PLUS ANGLE) EXCEEDS 100mm.
- 2. TYPE "B" COVER SHOWN. DETAIL SIMILAR FOR TYPE "A" COVER. PROVIDE 13mm THICK FLAT BAR SPACERS FOR TYPE "C" COVER.

FLOOR PLATE SUPPORT FRAMING

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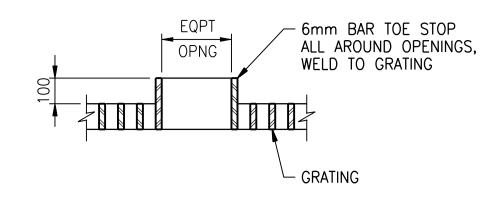
-6mm PL WELDED AT OPEN ENDED SUPPORTS, TYP BANDING BAR — - ATTACH GRATING TO TRIM 6mm THICK EMBEDDED ANGLE WITH VERTICAL LEG WELDED THREADED STUD AS REQD FOR AND CLAMP AS SPECIFIED GRATING THICKNESS -- GRATING THICKNESS 10mm x 150mm ANCHORS @ 450mm CENTERS - GRATING MIN BEARING BEARING BAR DIMENSION, SEE NOTE 12-<u>GS – 1</u>





NOTE:					— L	/JX
USE GS-3 ONLY	FOR	LIGHT	DUTY	GRATING,	TYPE	Ά'.
		<u>GS-3</u>				

LIGHT DUTY GRATING				
(4.8 kPa)				
MINIMUM GRATING THICKNESS TABLE				
MAXIMUM SPAN	STEEL	ALUMINUM		
1050	25	32		
1200	25	38		
1350	25	44		
1500	32	44		
1650	32	51		
1800	38	57		
1950	38	57		
2100	44	64		



EQUIPMENT OPENINGS

GENERAL NOTES:

- 1. GRATING SHALL BE LIGHT DUTY GRATING UNLESS OTHERWISE NOTED ON DRAWINGS.
- 2. GRATING SPAN —— SEE PLAN.
- 3. INDIVIDUAL GRATING SECTIONS SHALL NOT EXCEED 900mm IN WIDTH OR WEIGH MORE THAN 40 kg, UNLESS INDICATED OTHERWISE, FOR TYPES 'A' & 'B' GRATING. TYPE 'C' GRATING SHALL HAVE A MINIMUM WIDTH OF 600mm REGARDLESS OF WEIGHT.
- 4. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
- 5. MATERIAL FOR SUPPORTS OF STEEL AND ALUMINUM GRATING TO BE SAME AS GRATING, EXCEPT METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS
- 6. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE GRATING TYPE.
- 7. FOR SERRATED BEARING BARS, INCREASE GRATING THICKNESSES SHOWN IN TABLES BY 6mm.
- 8. BEARING BAR THICKNESS FOR GRATING TO BE 5mm MINIMUM. SEE SPECIFICATIONS FOR SPACING OF BEARING AND CROSS BARS.
- 9. BAND ALL EDGES. MATCH DEPTH OF BEARING BAR.
- 10. TYPE OF MATERIAL USED SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 2 TYPES, ALTHOUGH BOTH MAY NOT BE INCLUDED IN PROJECT.
- 11. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 6mm NOR GREATER THAN 13mm AND AS SPECIFIED.
- 12. FOR TYPE A & B MIN BEARING HORIZONTAL DIMENSION = 25mm FOR GRATING DEPTH 57mm OR LESS, MIN BEARING HORIZONTAL = 50mm FOR GRATING DEPTH GREATER THAN 57mm.

MEDIUM DUTY GRATING TYPE 'B' (24 kPa)					
MININ	MINIMUM GRATING THICKNESS TABLE				
MAXIMUM SPAN	STEEL	ALUMINUM			
< 600	25	25			
750	25	32			
900	32	38			
1050	32	44			
1200	38	51			
1350	44	57			
1500	44	64			
1650	51	DO NOT USE			
1800	57	ALUMINUM			
1950	64	GRATING			

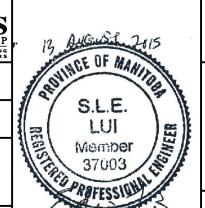
HEAVY DUTY GRATING TYPE 'C' (H 20 WHEEL LOAD) MINIMUM GRATING THICKNESS TABLE			
MAXIMUM SPAN	STEEL	ALUMINUM	
300	51x4.8		
500	64×6.4		
600	64x9.5 OR 76x6.4	DO NOT USE	
750	76x9.5 OR 102x6.4	ALUMINUM GRATING	
1000	89x9.5		
1200	102x9.5		
1500	114x9.5		

STANDARD GRATING

(0553-001

APEGIN Certificate of Authorization CH2M HILL Canada Ltd. No. 1441

						CH2N	VIHILL _®	ENGINEER'S SEAL
						SNC·LAVALIN	KGS GROUP CONSULTING ENGINEERS	· 13 Augus
						DESIGNED BY:	CHECKED BY: R. PARIKH	ROYINGE OF
						DRAWN BY: G.OMORI	APPROVED BY: E. LUI	# / S.L.
						SCALE: NTS	ISSUED FOR CONSTRUCTION BY: T. TURZAK	Mem 370
						DATE: 2015/08/13	DATE: 2015/08/13	370 PROFES
	00	ISSUED FOR TENDER	08/2015	G.O.	J.C.	CONSULTANT NO.:	•	Contraction
J	NO.	REVISIONS	DATE	DESIGN	CHECK	474248		



<u>@</u>	THE CITY OF WINNIP
Winnipeg	WATER AND WASTE DEPARTMENT
SOUTH ENG) WATER POLLUTION CONTROL CENTRE

SEWPCC UPGRADING/EXPANSION PROJECT STRUCTURAL STANDARD DETAILS (9)

ITY DRAWING NUMBER SHEET REV. SIZE 1-0102-SDTL-A010