

AL PL 10mmx75mm x CONT,

STOP 6mm FROM FACE OF

STAINLESS STEEL SCREWS -

SUPPORT ANGLE EA END,

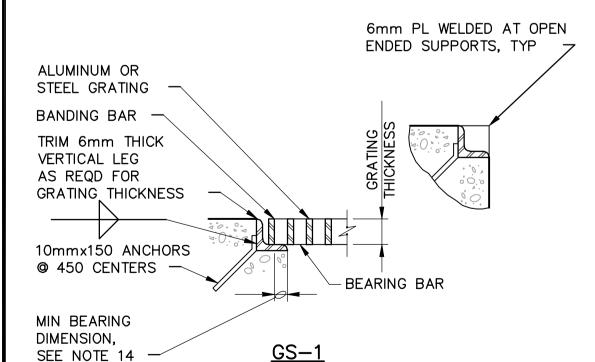
DRILL & TAP FOR 6mm

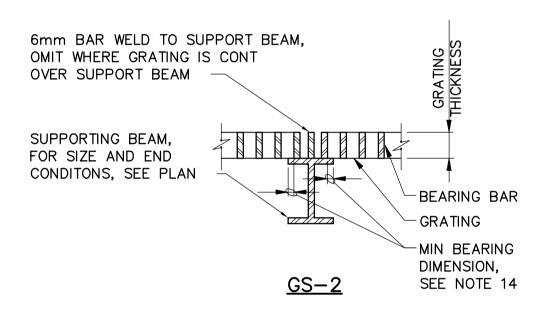
GENERAL NOTES:

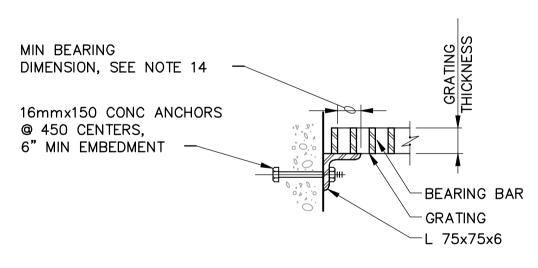
- 1. EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES.
- 3. GRATING SPAN SEE PLAN.
- 4. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 900mm.

2. NOTCH GRATING SUPPORTS AT GATES AS REQUIRED.

- 5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO FABRICATION.
- 6. 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
- UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
- 8. BEARING BAR THICKNESS FOR GRATING TO BE 5mm MINIMUM.
- 9. BAND ALL EDGES WITH 5mm x DEPTH OF BEARING BAR. 10. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
- 11. 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. 12. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 6mm NOR
- GREATER THAN 13mm AND AS SPECIFIED. 13. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS AS SPECIFIED.
- 14. MIN BEARING HORIZONTAL DIMENSION = 25mm FOR GRATING DEPTH 57mm OR LESS, MIN BEARING HORIZONTAL = 50mm FOR GRATING DEPTH GREATER THAN 57mm







<u>GS-3</u>

USE GS-3 ONLY FOR FOOT TRAFFIC GRATING.

6mm BAR TOE STOP ALL AROUND OPENINGS. WELD TO GRATING — GRATING **EQUIPMENT OPENINGS**

MAXIMUM SPAN STEEL ALUMINUM 300 51x4.8 500 64x6.4 600 64x9.5 OR 76x6.4 DO NOT USE ALUMINUM GRATING 1000 89x9.5	HEA	VY VEHICULAR TRA (HS 20-44)	FFIC
500 64×6.4 600 64×9.5 OR 76×6.4 DO NOT USE 750 76×9.5 OR ALUMINUM 102×6.4 GRATING		STEEL	ALUMINUM
600 64×9.5 OR 76×6.4 DO NOT USE 750 76×9.5 OR ALUMINUM 102×6.4 GRATING	300	51x4.8	
76x6.4 DO NOT USE 750 76x9.5 OR ALUMINUM 102x6.4 GRATING	500	64×6.4	
102×6.4 GRATING	600		DO NOT USE
1000 89.49 5	750		
1000 6383.3	1000	89×9.5	
1200 102x9.5	1200	102x9.5	
1500 114x9.5	1500	114x9.5	

THIS DETAIL IS APPLICABLE TO TYPES "A" AND "B" COVERS

LIFTING EYE TYPE "A"

AND OTHER COVERS NOT INTENDED TO BE AIRTIGHT

COVER PLATE

20mm DIA x

100mm LONG

	FFIC ESS)	
MAXIMUM SPAN	STEEL	ALUMINUM
300	44x4.8	44×4.8
450	44x4.8	44×4.8
600	51x4.8	51x4.8
750	57x4.8	57×4.8
900	64x4.8	64×4.8
1200	64x6.4	
1500	64x9.5	DO NOT USE ALUMINUM
1800	64x9.5	GRATING
2100	76×9.5	

 ackslash 6mm STAINLESS STEEL

FLAT HEAD SCREWS @

CHECKERED ALUMINUM FLOOR PLATE

300 CENTERS

COVERS AND OTHER AIRTIGHT COVERS.

THIS DETAIL APPLIES AT TYPE "C"

EDGE PLATE DETAIL

3mm THICK x

35mm CONT

NEOPRENE GASKET

STAINLESS STEEL L50x50x6

STEEL ANCHORS AT 450

10mm DIA x 150mm STAINLESS

CENTERS HOOK 50mm AS SHOWN

FOOT TRAFFIC						
GRATING THICKNESS TABLE						
MAXIMUM SPAN	ALUMINUM	STEEL				
1050	32	25				
1200	38	25				
1350	44	25				
1500	44	32				
1650	51	32				
1800	57	38				
1950	57	38				
2100	64	44				

COVER TYPE "C"

6 MAX

-10mmx20mm STAINLESS

6mm STAINLESS

STEEL FLAT

WITH 2 SQ

NUTS WELD

EA CORNER

STAINLESS

BAR

STEEL FLAT

- 6mm STAINLESS

STEEL FLAT HEAD

NUTS WELD TO L

AROUND

THIS DETAIL APPLIES AT

OPENINGS THAT REQUIRE

AIR TIGHT COVERS.

AT 300 CTRS ALL

13mmx20mm

STAINLESS

STEEL BAR

< TYP

SCREWS WITH 2 SQ

HEAD SCREWS

TO L, ONE AT

10mmx20mm

STEEL FLAT BAR

VEHICULAR TRAFFIC NOTE:

STEEL GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 48mm OC; ALUMINUM GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 30mm OC.

SERRATED BEARING BARS:

INCREASE GRATING THICKNESSES SHOWN IN TABLES BY 6mm FOR GRATING WITH SERRATED SLIP RESISTANT SURFACES.

$\sqrt{3}$	STANDARD	ALUMINUM	GRATING
_	N.T.S.		

	B.N ELE			1	СН2М НІЦ	⑤ EarthTech	ENGINEER'S SEAL
E APEGN					Frederickson Cooper	A Tyco International Ltd. Company	ORIGINAL SIGNED BY
Certificate of Authorization					DESIGNED DK	CHECKED AP	D. KRUGER
CH2M HILL Canada Ltd.					DRAWN BY PT	APPROVED DJT	2006/02/06
No. 1441 Expiry: April 30, 2006					SCALE: NTS	RELEASED FOR CONSTRUCTION BY:	CONCULTANT PRAYMAN AND
	00	ISSUED FOR TENDER	2006/02/03	DK		R. SOROKOWSKI	CONSULTANT DRAWING NO.
	NO.	REVISIONS	DATE	BY	DATE 2005/08/31	DATE 2006/02/08	WB-S0462

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	Winning WATER AND WASTE DEPARTMENT									
Winnipeg ENGINEERING DIVISION										
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	Winnipeg Engineering Division	
	WATER TREATMENT PLANT	CITY FILE NUMBER
	FOUNDATIONS AND CONCRETE STRUCTURES	SHEET OF
Э.	STRUCTURAL	CITY DRAWING NUMBER
	STANDARD DETAILS	1-060 1B -A-S0462-001-00D
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SEE NOTE 14