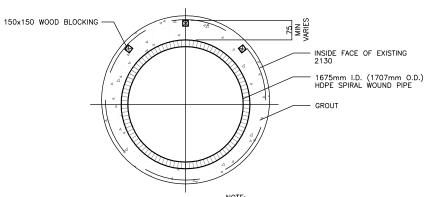


GRATING TYPE 'Y'

OUTFALL DEBRIS GRATING											
LOCATION	PIPE		END	GRATING							
	DIAMETER D	MATERIAL	CONDITION	DIAMETER D1	TYPE	BAR DIA.	Α	В	С	N	WEIGHT (lbs)
HAWTHORNE (RR-98)	2130	SPCSP	1	2085±	Y	25	140	140	140	13	319

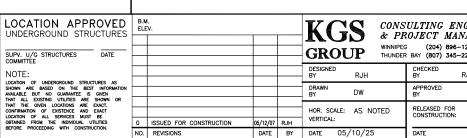
- ALL PLATES AND BARS ARE CSA G40.21-300W.
   ALL COMPONENTS ARE GALVANIZED.
   ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE B8M

## STANDARD GRATING AND END CONDITION DETAILS



NUIE:
INSTALLATION OF HDPE SPIRAL WOUND PIPE
REQUIRES SPACERS TO INSURE LINER REMAINS
IN DESIGNED POSITION.
(SPACERS TO BE DESIGNED BY THE CONTRACTOR)





CONSULTING ENGINEERS
& PROJECT MANAGERS

ENGINEER'S SEAL WINNIPEG (204) 896-1209 THUNDER BAY (807) 345-2233

ORIGINAL SIGNED BY R.J. HOUSTON 05/12/07

THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT

HAWTHORNE FLOOD PUMPING STATION UPGRADE

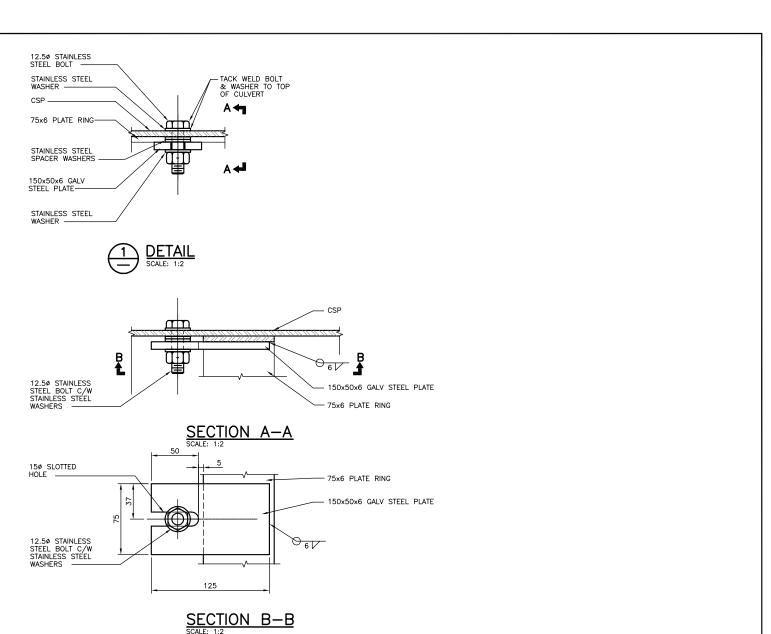
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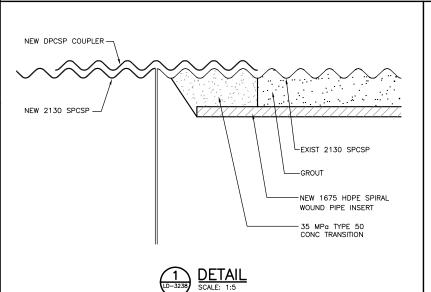
LD-3239

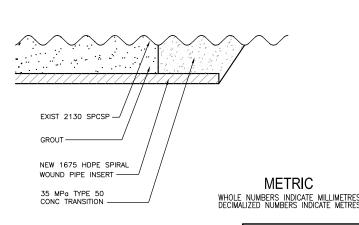
KGS Group No. 245 Expiry: April 30, 2006

**DEBRIS GRATE DETAILS** 

DETAIL SCALE: 1:5







SECTION SCALE: NTS

05-107-13\_02