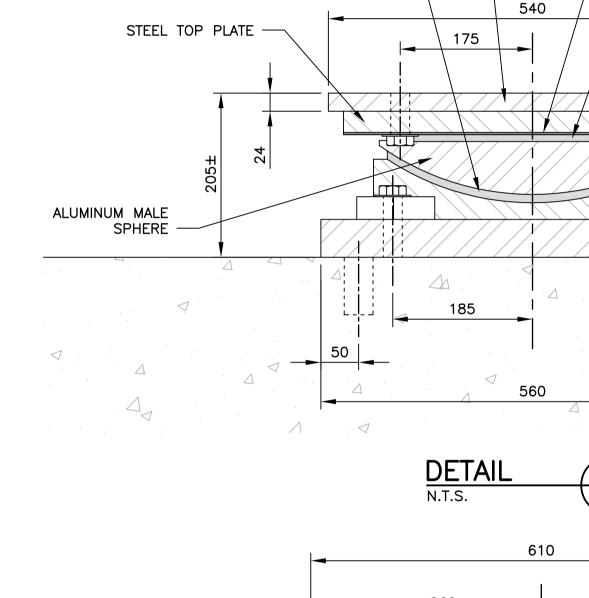


ELEVATION 2

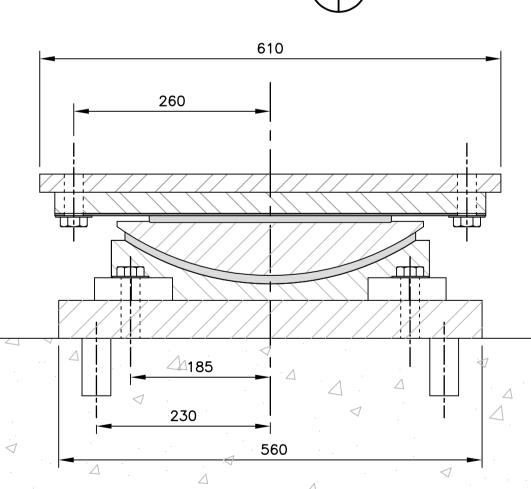
NOTES:

- 1. TWO (2) BEARINGS TO BE REFURBISHED OR REPLACED. EXISTING BEARINGS CAPACITY IS 3720 kN (836 KIPS). SEE TABLE BELOW FOR BEARING DATA OBTAINED FROM CITY OF WINNIPEG SUPPLIED SHOP DRAWINGS. ONLY MK10 BEARING DETAILS ARE SHOWN.
- 2. BEARING REPLACEMENT PROCEDURE:
 - i) RAISE STRUCTURE WITH JACKS AT TEMPORARY JACK LOCATIONS JUST ENOUGH TO REMOVE EXISTING BEARINGS. DO NOT OVERLOAD ADJACENT BEARINGS.
 - ii) INSTALL TEMPORARY BEARINGS (MAY BE STEEL SHIMS C/W NEOPRENE PAD AGAINST CONCRETE).
 - iii) REMOVE JACKS.
 - iv) REFURBISH BEARINGS
 - v) INSTALL REFURBISHED BEARINGS OR NEW BEARINGS REVERSING ABOVE REMOVAL SEQUENCE C/W NEW HOT DIP GALVANIZED A325 BOLTS.
 - vi) THE ABOVE REPLACEMENT PROCEDURE IS FOR THE MK10 BEARING ONLY. SEE THE SPECIFICATION FOR THE SUGGESTED DETAILS FOR REPLACEMENT PROCEDURE FOR THE MK8 BEARING.
- 3. TYPICAL BEARING REFURBISHMENT PROCEDURE 2 REQUIRED:
 - i) REPLACE P.T.F.E SHEETS ON MALE AND FEMALE SPHERES OF MK10 BEARINGS (FEMALE SPHERE ONLY ON MK8 BEARING).
 - ii) POLISH ALUMINUM MALE SPHERE.
 - iii) REPLACE STAINLESS STEEL PLATE C/W TIG WELD ALL AROUND (MK10 BEARING ONLY).
- 4. AS AN ALTERNATIVE TO REFURBISHMENT, THE CONTRACTOR MAY SUPPLY AND INSTALL A NEW BEARING. ADDITIONAL BEARING DESIGN INFORMATION WILL BE SUPPLIED TO THE CONTRACTOR IF A NEW BEARING SUPPLY OPTION IS CHOSEN.



7 mm THICK P.T.F.E. (TEFLON) TO SUIT GX350 FEMALE SPHERÉ

STEEL SOLE PLATE -

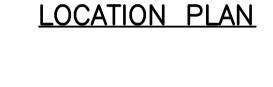


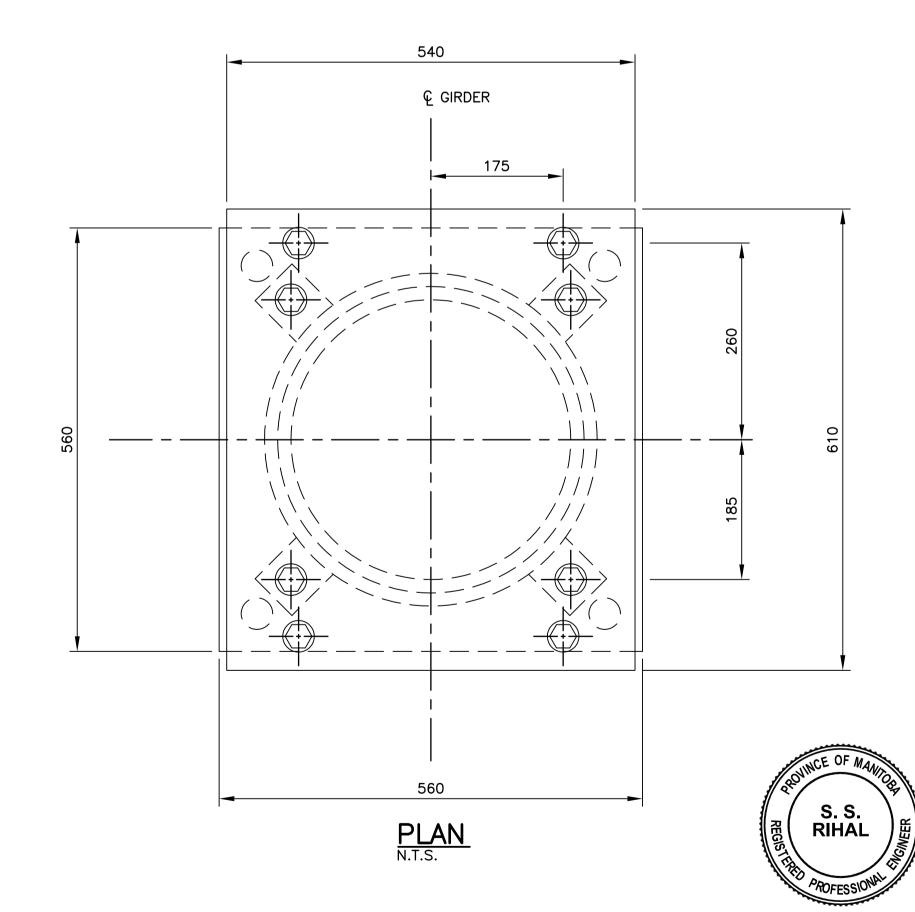
LONGITUDINAL ELEVATION

ISSUED FOR BIDDING

NO. REVISIONS

ISSUED FOR CITY REVIEW 10/27/05 M.R.D.





BEARING DATA

BEARING MANUFACTURER BEARING TYPE

DEAD LOAD MAX. VERTICAL LOAD MAX. ROTATION LONGITUDINAL MOVEMENT TRANSVERSE MOVEMENT LATERAL LOAD LONGITUDINAL LOAD

MK.10 ON PIER 1 GLACIER GX'C'350 - FREE (MULTIDIRECTIONAL) 2640 kN 3720 kN

N/A

N/A

0.085 RADIANS ±50 MM ±10 MM

MK.8 ON PIER 2 GLACIER GZ'C'350 - FIXED

2640 kN 3720 kN UNKNOWN N/A N/A 240 kN 235 kN

B.M. ELEV. DESIGNED BY: R.A.W. M.R.D. DRAWN BY: CHECKED BY: R.A.W. REVIEWED BY: S.S.R. HORZ. AS SHOWN SCALE: 3 REFURBISHMENT PROCEDURE 11/04/05 M.R.D. OCT 2005 REVISION

DATE

10/31/05 M.R.D. AUTHORIZED BY:

CITY BRIDGE ENGINEER

2 mm THICK STAINLESS STEEL

7 mm THICK P.T.F.E. (TEFLON)
TO SUIT GX350 ALUMINUM MALE

STEEL FEMALE

SPHERE

SHEET TO SUIT GX350 TOP

SPHERE

DILLON CONSULTING

DATE:

ENGINEER'S SEAL **WIEBE** CONSULTANT PROJECT NO.

05-4421-1000

Winnipeg

BID OPPORTUNITY NO. 663-2005 THE CITY OF WINNIPEG

SHEET

PUBLIC WORKS DEPARTMENT 2005 BRIDGE MAINTENANCE MIDTOWN BRIDGE CITY DRAWING NUMBER B114-05-01-R1

BEARING REFURBISHMENT

PLAN, ELEVATION, AND DETAILS

40DILLON ACAD FILE: G:\CAD\054421\MIDTOWN AND FORT GARRY BRIDGES\FINAL\MIDTOWN_FINAL_ADDENDUM_1.DWG 11/04/05