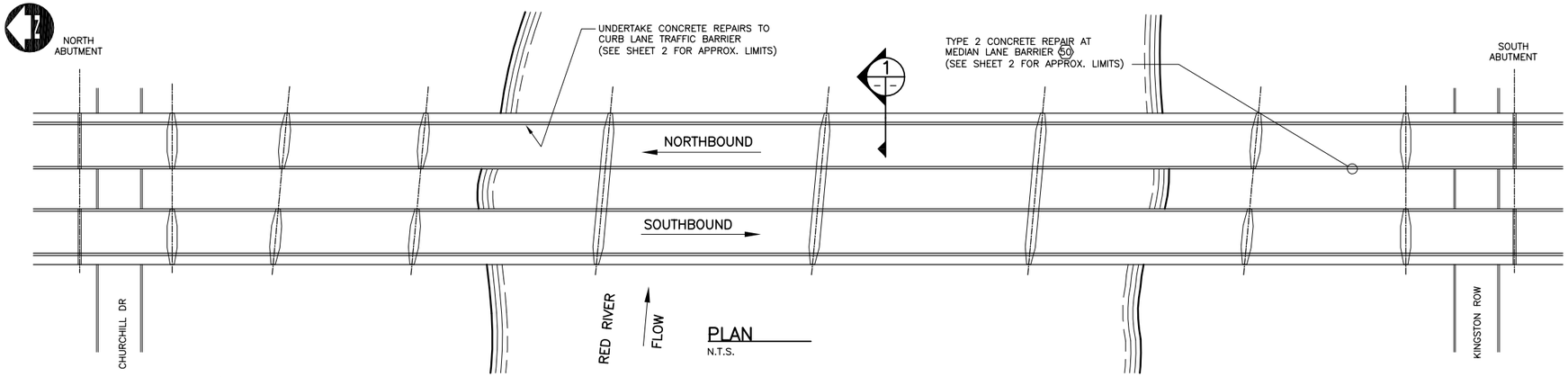
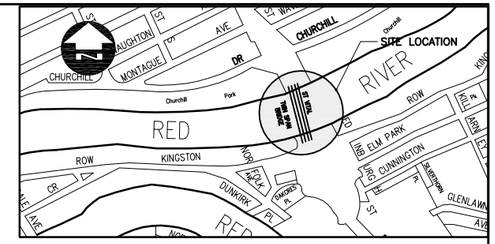
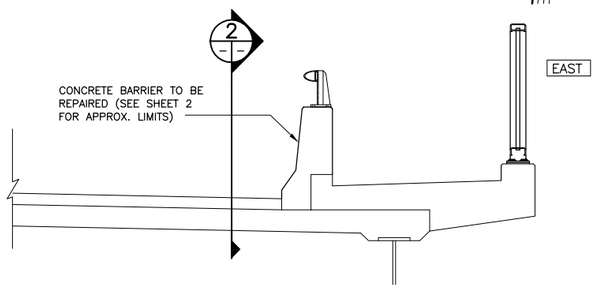



PLAN
N.T.S.

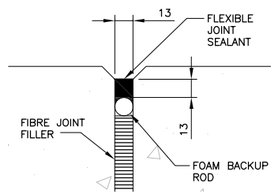



LOCATION PLAN

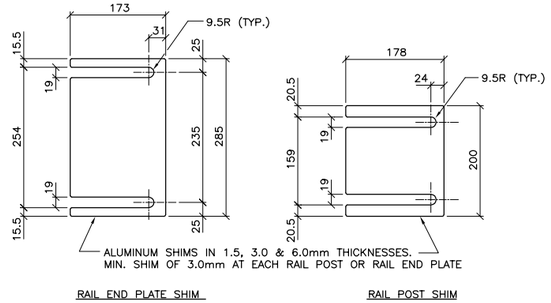



TYPICAL CROSS SECTION – NORTHBOUND STRUCTURE

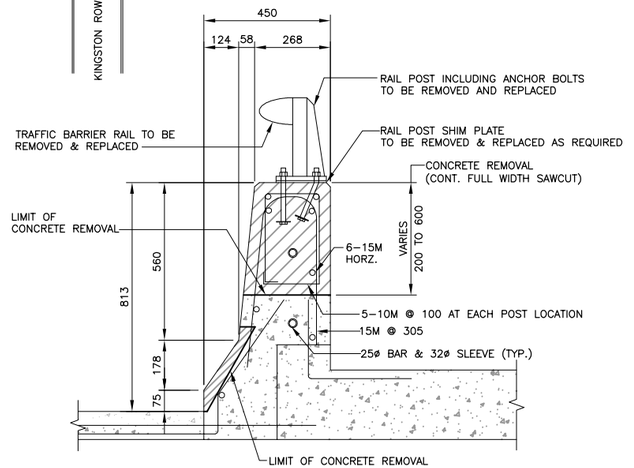
SECTION 1
N.T.S.



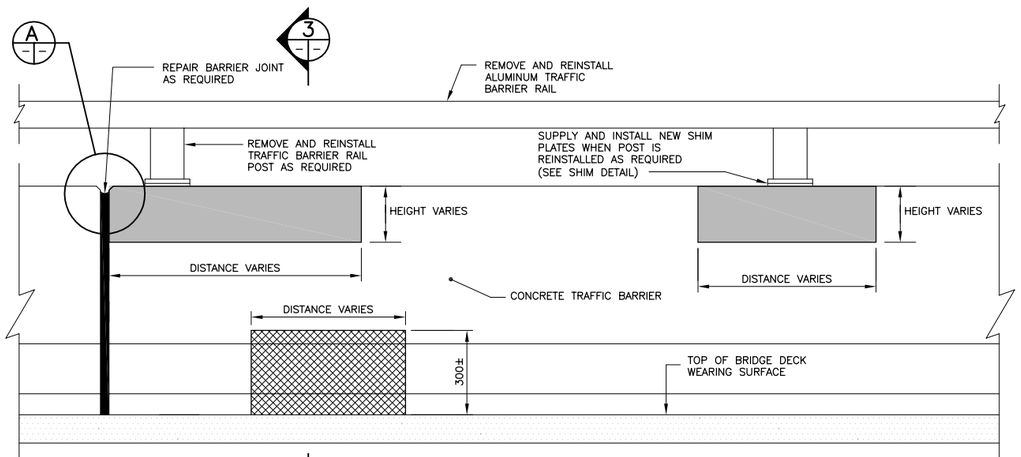

DETAIL A
1:2




SHIM PLATE DETAIL



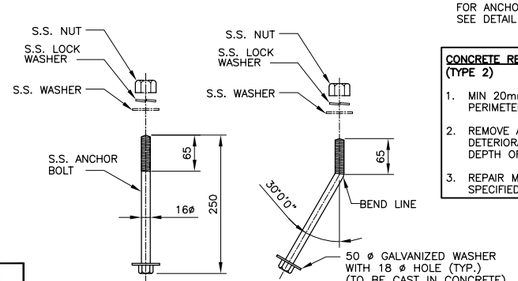

EXISTING SHOULDER TRAFFIC BARRIER



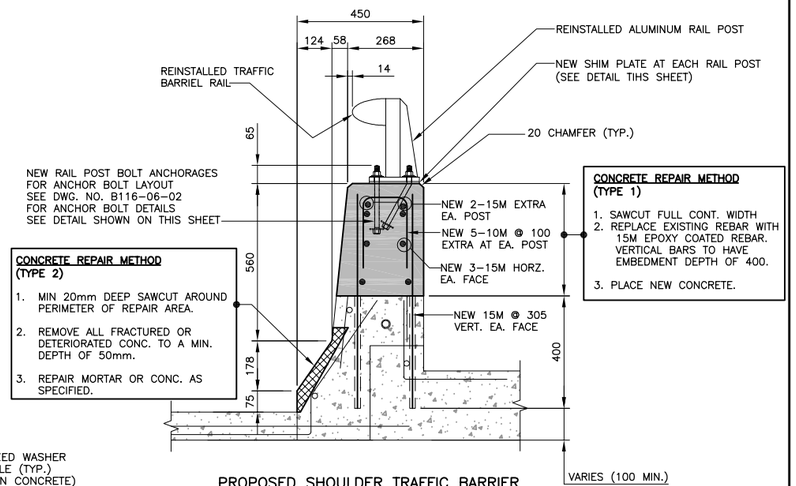

NOTE:
ALL REPAIRS TO BE UNDERTAKEN TO THE CURB SIDE BARRIER OF THE NORTHBOUND BRIDGE UNLESS NOTED OTHERWISE.

ELEVATION – CONCRETE TRAFFIC BARRIER REPAIRS

SECTION 2
1:10




ANCHOR DETAIL




**CONCRETE REPAIR METHOD (TYPE 2)**

1. MIN 20mm DEEP SAWCUT AROUND PERIMETER OF REPAIR AREA.
2. REMOVE ALL FRACTURED OR DETERIORATED CONC. TO A MIN. DEPTH OF 50mm.
3. REPAIR MORTAR OR CONC. AS SPECIFIED.

**CONCRETE REPAIR METHOD (TYPE 1)**

1. SAWCUT FULL CONT. WIDTH
2. REPLACE EXISTING REBAR WITH 15M EPOXY COATED REBAR. VERTICAL BARS TO HAVE EMBEDMENT DEPTH OF 400.
3. PLACE NEW CONCRETE.

PROPOSED SHOULDER TRAFFIC BARRIER

SECTION 3
1:10

APEGM
Certificate of Authorization
Dillon Consulting Limited
No. 1789 Expiry: April 30, 2007

## REPAIR LEGEND

- —TYPE 1 REPAIR – FULL BARRIER DEPTH WITH VARIABLE LENGTH AND HEIGHT. (SEE DWG. NO. B116–06–02)
- —TYPE 2 REPAIR – TYPICAL BARRIER PARTIAL DEPTH REPAIR
- —EXIST. CONCRETE REMOVAL

## NOTES:

1. SUPPLY AND INSTALL A COMBINATION OF NEW 1.5, 3.0 AND/OR 6.0MM THICK ALUMINUM RAIL POST OR END PLATE SHIMS ARE TO BE USED AS REQUIRED TO SET THE BARRIER RAIL TO A UNIFORM ELEVATION. (MINIMUM 3.0MM SHIM REQUIRED AT EACH POST OR PLATE).
2. BOTTOM SURFACE OF SHIM (SURFACE IN CONTACT WITH CONCRETE) IS TO BE PAINTED WITH 2 COATS OF ALKALI RESISTANT BITUMINOUS PAINT, EACH COAT BEING 1MM IN THICKNESS.

| B.M. ELEV. | | | |
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| 1 | ISSUED FOR TENDER | 06/07/11 | MRD |
| 0 | ISSUED FOR CITY REVIEW | 06/07/11 | MRD |
| NO. | REVISIONS | DATE | BY |

DESIGNED BY: M.R.D.
DRAWN BY: M.R.D.
CHECKED BY: R.A.W.
REVIEWED BY: R.A.W.
SCALE: HORZ. AS SHOWN VERT.
DATE: JULY 2006

DILLON CONSULTING

AUTHORIZED BY: DATE:
CITY BRIDGE ENGINEER

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R. A. WIEBE
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NO.
06–5919–1001

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
Winnipeg

2006 BRIDGE MAINTENANCE
ST. VITAL BRIDGE
CONCRETE REPAIRS

DETAILS 1 OF 2

CITY DRAWING NUMBER
B116–06–01
SHEET 1 OF 2

BID OPP NO.
494–2006