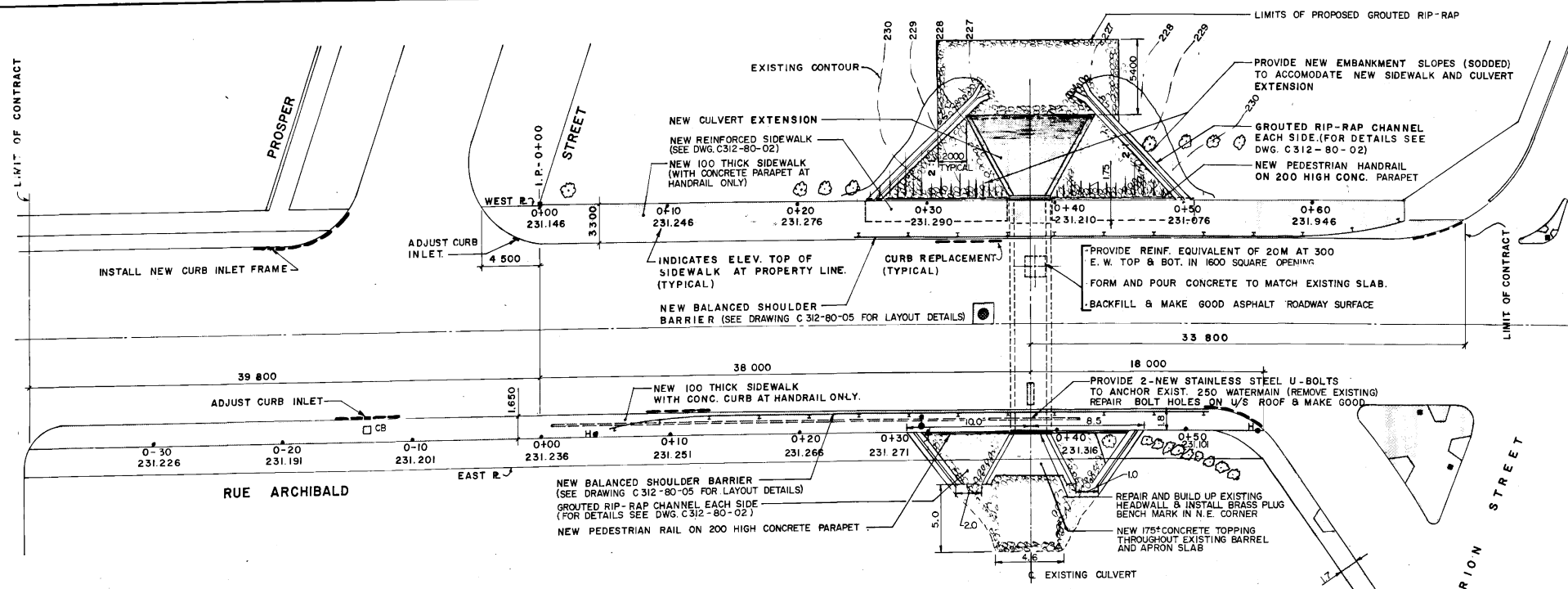


SITE PLAN - SHOWING EXTENT OF DEMOLITION & REMOVAL WORK



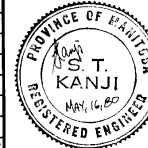
SITE PLAN - SHOWING EXTENT OF REPAIR & NEW WORK

GENERAL NOTES

- DESIGN SPECIFICATIONS**  
The culvert extension has been designed in accordance with the American Association of State Highway and Transportation Officials' Standard Specifications for Highway Bridges (1977) and the Canadian Standard Association CSA Standard S.6 (1974).
- UTILITIES**  
The information shown on these drawings concerning the type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determination as to the type and location of underground utilities as may be necessary to avoid damage thereto.  
The Contractor shall advise all utility companies, in writing, of his proposed work.  
The Contractor shall be responsible for the repair, at his own expense, of any damage to utilities caused by construction.
- CONCRETE**  
The concrete cylinder strength at 28 days shall be 30 MPa.  
Cement for the concrete shall be TYPE 50 sulfate resistant cement, except as otherwise specified.  
All exposed concrete edges shall be finished with a 25 chamfer unless otherwise noted.  
All miscellaneous holes in the existing structure shall be dry-packed with a non-shrink, non-metallic grout.  
The earth face of the culvert barrel extension and wing walls shall be waterproofed with asphaltic waterproofing.  
Construction joints shall be protected with an additional coating of asphalt waterproofing.
- REINFORCING STEEL**  
Reinforcing steel shall conform to CSA G30.12 M-1977, Grade 400.  
Reinforcing details shall conform to the latest ACI detailing manual. Lap lengths shall be 30 bar diameters, unless noted otherwise.  
Concrete cover to reinforcing steel shall be 50 mm unless noted otherwise.  
Reinforcing steel for the head walls shall be galvanized in accordance with CSA G164 (R1972).
- PEDESTRIAN HANDRAIL**  
All structural steel for the railing shall conform to CSA G40.21-35 MPa.  
All steel, including base plates and shims, shall be hot dipped galvanized in accordance with CSA G164 (R1972) to a retention of 600 gm/m<sup>2</sup>.  
All inserts and fasteners shall be stainless steel and of the type shown on the drawing.
- BENCH MARK**  
A bench mark brass plug, supplied by the City, shall be installed in the north corner of the east head wall during concrete placement.  
The following bench mark shall be used for elevation during construction:  

No.	Description	Elevation
33-006	357. S.W. Cor. of Marion St. & C.P.R. Emerson Subd. E. of Rue Archibald Tbt. in 7.6 m Conc. pile 7.2 m W. of C.L. of W. Railway tracks & 10.4 m S. of C.L. of Marion St.	231.595 m

FOR REFERENCE ONLY



NO.	REVISIONS	DATE	APP.
1	REVISED AS CONSTRUCTED	JAN/82	RA

W. L. WARDROP & ASSOCIATES LTD.  
ENGINEERING CONSULTANTS

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 80-05-15  
APPROVED BY: [Signature]  
DATE: 80-05-15

REVISED AS CONSTRUCTED  
DATE JAN/82 BY H.J.C.  
CHECKED BY RA

02/3/80 H. J. C.  
B-5370

THE CITY OF WINNIPEG  
WORKS & OPERATIONS DEPARTMENT  
STREETS & TRANSPORTATION DIVISION

RUE ARCHIBALD CULVERT IN DUGALD DRAIN  
GENERAL ARRANGEMENT OF PROPOSED WORKS

AUTHORIZED BY: [Signature] DATE: 80-05-02  
ACCEPTED BY: [Signature] DATE: 80-05-03  
SCALE: 1:200  
DRAWING NO.: C312-80-01