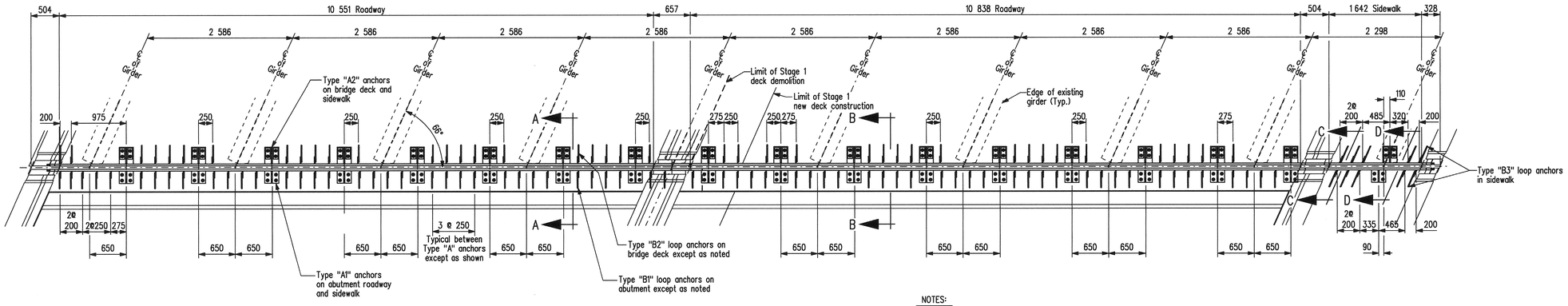
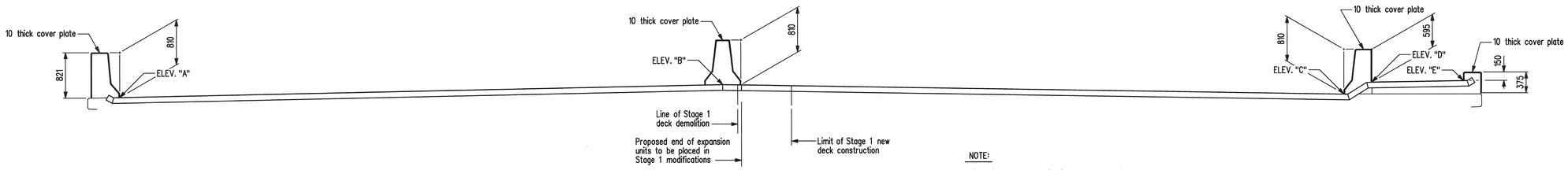


PLAN AT SOUTH ABUTMENT

NOTES:

1. Cover plates at barriers and curbs not shown for clarity.
2. MTS ducts in sidewalk not shown.
3. Electrical conduit not shown.

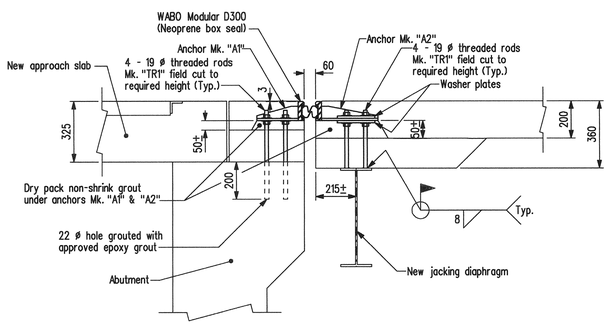


TYPICAL ELEVATION

Similar for both abutments and Pier 4

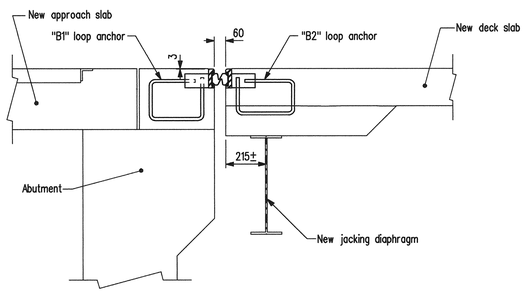
NOTE:

Dimensions are to projection of concrete faces along ℄ of expansion joints.



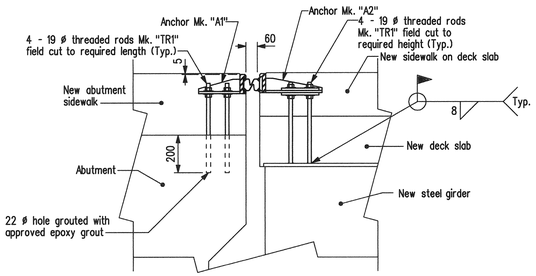
SECTION A-A

Showing expansion unit anchors on roadway
Scale 1 : 15



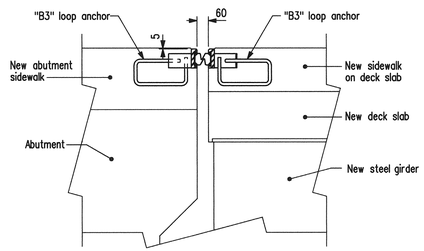
SECTION B-B

Showing expansion unit loop anchors on roadway.
Typical at North and South abutments.
Scale 1 : 15



SECTION C-C

Showing expansion unit anchors in sidewalk at abutments.
Scale 1 : 15



SECTION D-D

Showing expansion unit loop anchors in sidewalk at abutments.
Typical at North and South abutments.
Scale 1 : 15

NOTES:

1. Manufacturer's shop drawings shall be submitted to the Structures, Design & Construction office for approval at least fourteen (14) working days prior to fabrication. The expansion joint assemblies shall be designed to carry AASHTO HSS-25 Truck and HS-30 Live Loading.
2. Steel shall be in accordance with CSA Stabdard G40.21 Grade 300W or equal.
3. Steel extrusions shall be in accordance with CSA Standard G40.21 Grade 230 G minimum.
4. All steel surfaces including cover plates shall be hot dip galvanized to a net retention of 600 g/m in accordance with CSA Standard G 164 after fabrication. Units shall be fabricated in two separate sections for installation in Stage 2 modifications and Stage 3 modifications. Each section shall be assembled and installed in one continuous piece.
5. Joint assembly shall be fabricated and completely shop assembled and preset to dimension "A" for 0°C prior to shipment.
6. Welding shall be low oxygen classification. Manual electrodes shall be E7016 or E7018. All welding shall be done in accordance with CSA Standard W59.
7. Seal shall be preformed neoprene rubber. Each seal shall be supplied and installed in one continuous piece. No splice in the seal will be permitted.
8. Roadway expansion joint assembly shall be installed 3 mm below elevation and grade of adjacent bridge deck. Sidewalk expansion joint assembly shall be installed 5 mm below elevation and grade of adjacent bridge sidewalk.
9. After removal of clamping channels and spacer dam, bolt and bleeder holes to be filled with an approved epoxy grout.
10. Installation temperature shall be taken as the mean shade temperature and be for a period of 48 hours prior to joint installation.
11. All areas of damaged galvanizing shall be repaired by using the Galvalay procedure as specified.
12. All barrier cover plates shall be recessed 5 mm from the face of the concrete.

REVISIONS		
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA
Mar 15/10
S.S. RIHAL
REGISTERED PROFESSIONAL ENGINEER

EXPANSION JOINT DETAILS

RECONSTRUCTION AND STRENGTHENING OF EXISTING BRIDGE
OVER ASSINIBOINE RIVER - CONTRACT THREE
ON P.T.H. No. 100 IN R.L.'S 72, 73 & 94
PARISH OF ST. CHARLES

CITY OF WINNIPEG

Manitoba
Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION BY:
Ruth Gordon March 15/10
DIRECTOR DATE
STRUCTURES DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: M.B.C.	SCALE: 1:40 or As Shown	SHEET No. 91
	CHECKED: S.S.R.		
DETAILS	BY: D.P.W.		SITE No. 2924-00
	CHECKED: S.S.R./J.J.		

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