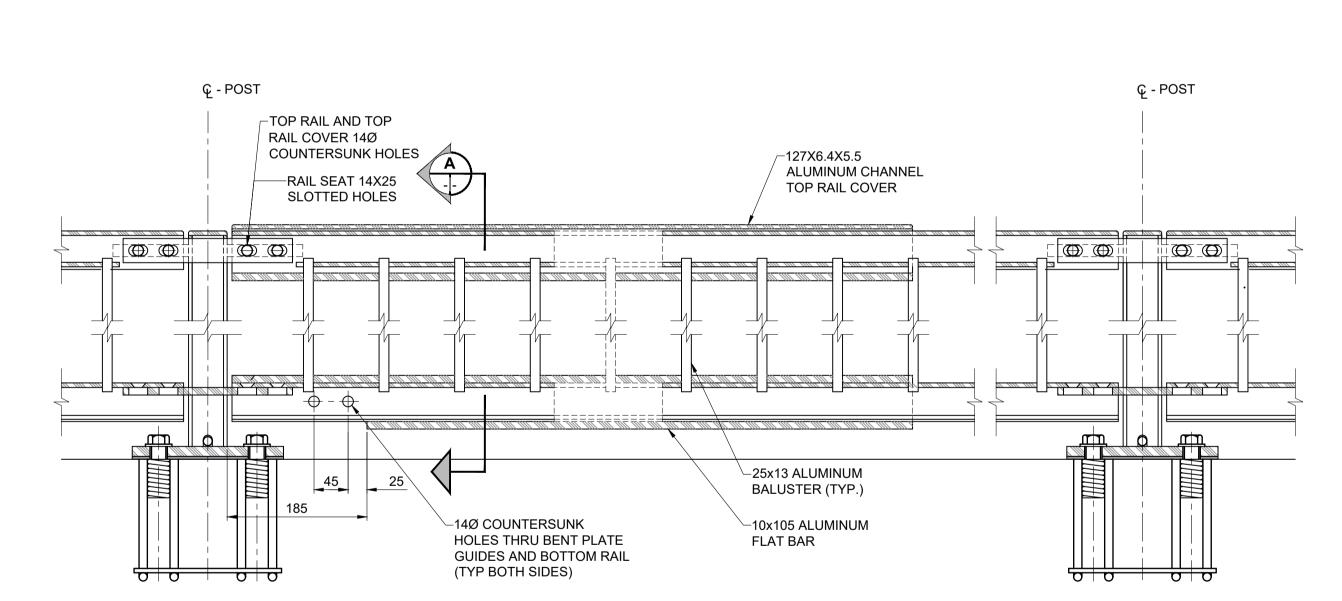
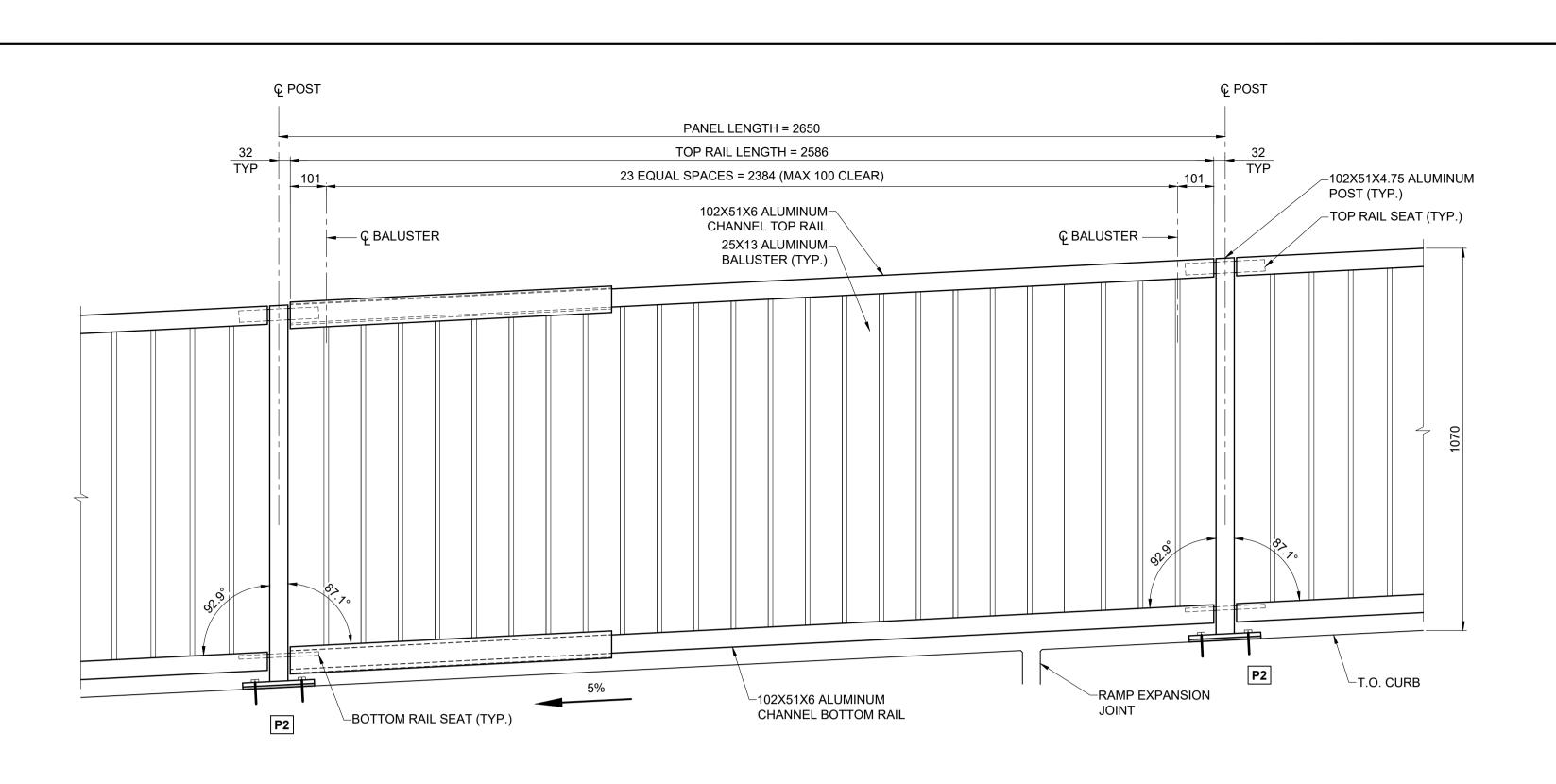
SCALE: 1:5



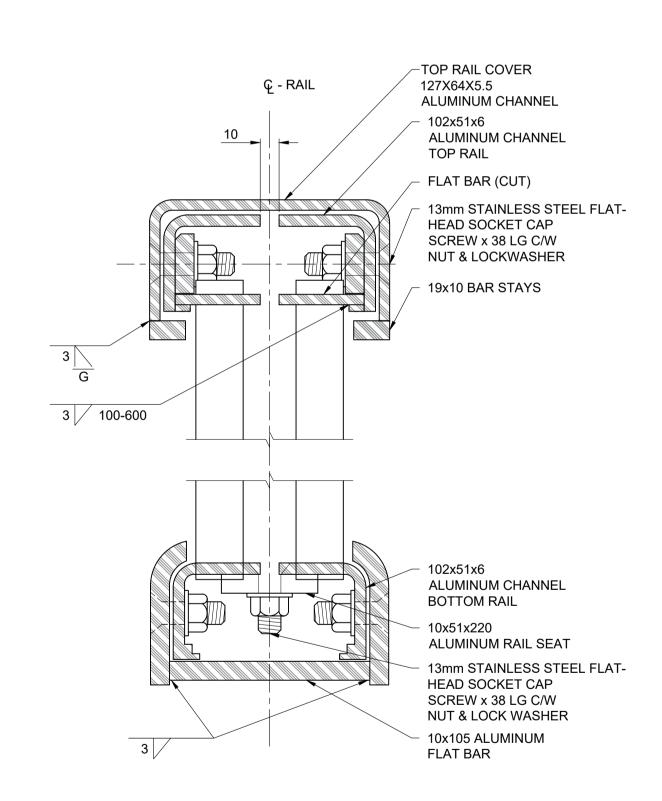
## **EXPANSION PANEL SECTION**

AT CENTRELINE OF RAILS SCALE: 1:5



## **EXPANSION PANEL Mk. A ELEVATION**

SCALE: 1:10





- 1. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLOY 6351-T6.
- 2. ALUMINUM PLATES SHALL CONFORM TO ASTM B221 ALLOY 5083.
- 3. THE M.I.G. PROCESS OF WELDING SHALL BE USED. 4. RAIL POSTS AND BALUSTERS SHALL BE SET PLUMB.
- 5. PLACE NEOPRENE PAD UNDER EACH POST BETWEEN BASE PLATE OR SHIM AND CONCRETE SURFACE. ALUMINUM SHIMS MAY BE REQUIRED FOR VERTICAL ALIGNMENT.
- 6. HANDRAIL ANCHOR INSERTS SHALL BE ACROW-RICHMOND TYPE DGRS-1.

BID OPPORTUNITY No. 602-2018



LOCATION APPROVED UNDERGROUND STRUCTURES						
SUPR. U/G STRUCTURES DATE COMMITTEE	_					
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.						

ED s	BM ELEV			m	MORRISON HERSHFIELD		PROFESSIONAL'S SEAL			
						MORRIS	ONTIER	SHFIELD	B.A.F.	
RES					DESIGNED BY	ALP	CHECKED BY	BAP	PHILLPS Member 32723	
G EN					DRAWN BY	ALP	APPROVED BY	BE	PROFESSIONAL PROFE	
EN I OF L E ING					1100 0041 5	AS SHOWN	RELEASED FOR C	ONSTRUCTION	MANAGE AND THE SOUTH AND THE S	
	В	ISSUED FOR TENDER	18/09/04	BAP	HOR SCALE VERT SCALE			NI/A		CONSULTANT FILE NAME
	Α	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP		ALE AS SHOWN	N/A		W160034 - DD NR	
	No.	REVISIONS	YY/MM/DD	BY	DATE		DATE		HANDRAIL.DWG	



## THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT Winnipeg **ENGINEERING DIVISION**

**EMPRESS STREET PROJECT** PEDESTRIAN ACCESSIBILITY RAMPS **NORTH RAMP** 

PEDESTRIAN HANDRAIL DETAILS 3

P-3494-157					
SHEET	OF	400			
	157	168			
DRAWIN	REV				
1	В				

CITY DRAWING NUMBER