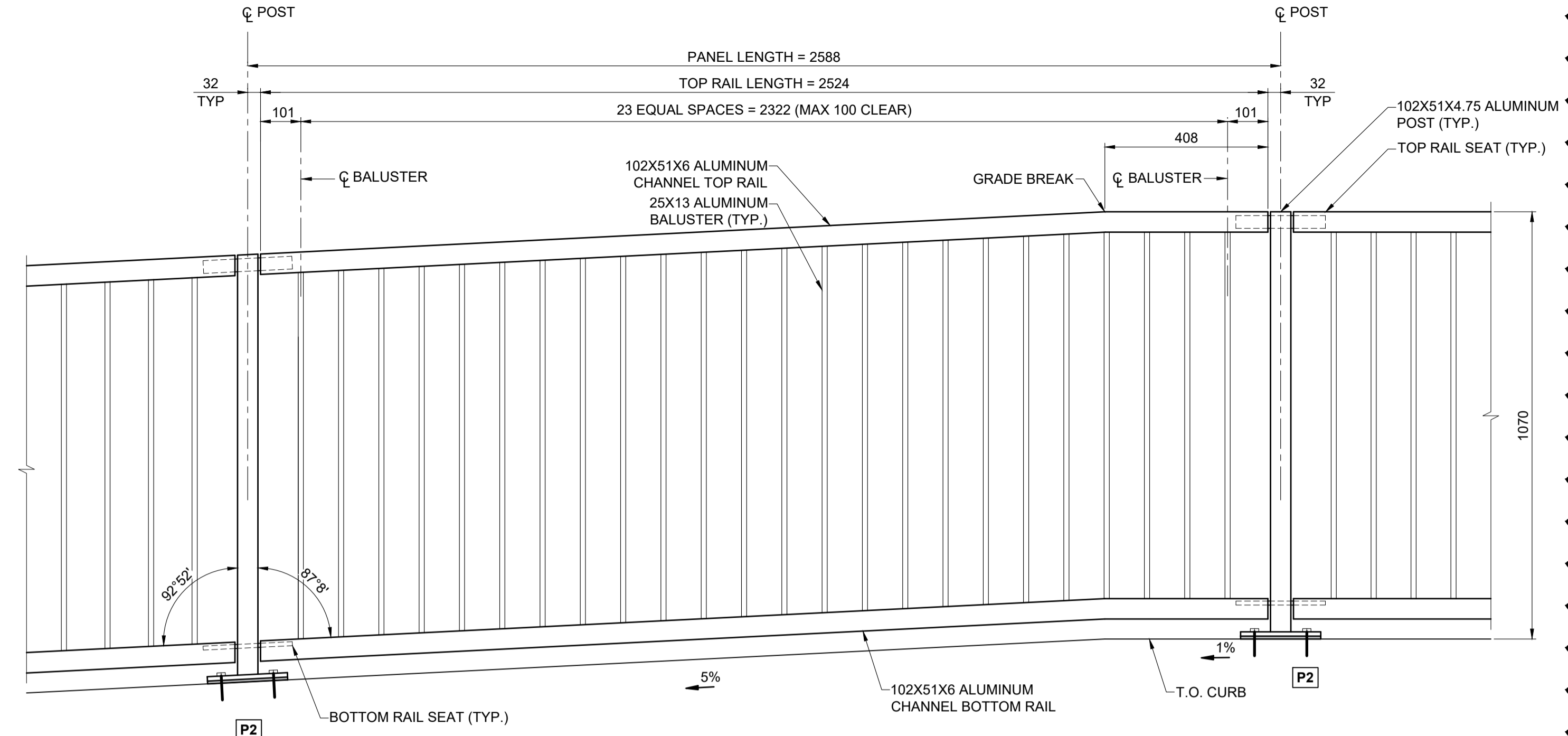


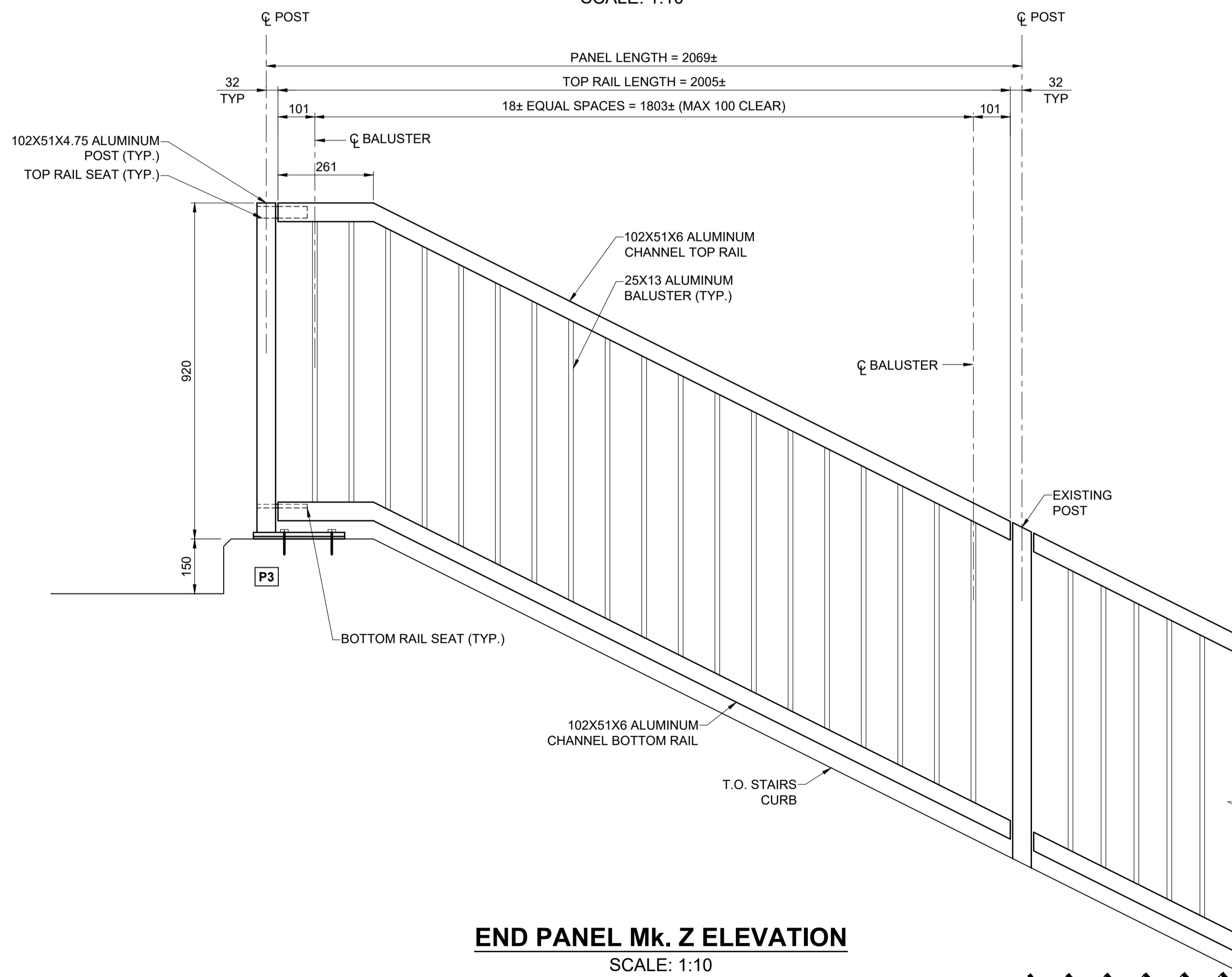
INTERMEDIATE PANEL Mk. R1 & R2 ELEVATION

SCALE: 1:10



INTERMEDIATE PANEL Mk. T ELEVATION

SCALE: 1:10



END PANEL Mk. Z ELEVATION

SCALE: 1:10

NOTE: CONTRACTOR TO CONFIRM LENGTH AND SLOPE OF PANEL FROM POST Mk. P5 TO EXISTING HANDRAIL POST PRIOR TO FABRICATION.

NOTES:

1. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLOY 6351-T6.
2. THE M.I.G. PROCESS OF WELDING SHALL BE USED.
3. RAIL POSTS AND BALUSTERS SHALL BE SET PLUMB.
4. EXCEPT WHERE INDICATED, HANDRAIL TOP AND BOTTOM RAILS SHALL BE AT A CONSTANT OFFSET FROM THE TOP OF CURB TAKING INTO ACCOUNT ALL GRADE BREAKS ALONG THE RAMP LENGTH. SEE DRAWING 120 FOR GRADING PLAN.
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.



LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES COMMITTEE DATE

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.

NO.	REVISIONS	DATE	BY
C	ISSUED FOR ADDENDUM 1	18/10/05	BAP
B	ISSUED FOR TENDER	18/09/04	BAP
A	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP

DESIGNED BY	YM	CHECKED BY	BAP
DRAWN BY	ALP	APPROVED BY	BE
HOR SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERT SCALE	AS SHOWN		N/A
DATE			

PROFESSIONAL'S SEAL
B.A.F. PHILLIPS
 Member
 32723
 REGISTERED PROFESSIONAL ENGINEER
 CONSULTANT FILE NAME
 W160034 - DD SR
 HANDRAIL.DWG

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

EMPRESS STREET PROJECT
 PEDESTRIAN ACCESSIBILITY RAMPS
 SOUTH RAMP
 PEDESTRIAN HANDRAIL DETAILS 3

CITY DRAWING NUMBER
 P-3494-131
 SHEET 131 OF 169
 DRAWING No. 131 REV C

BID OPPORTUNITY No. 602-2018