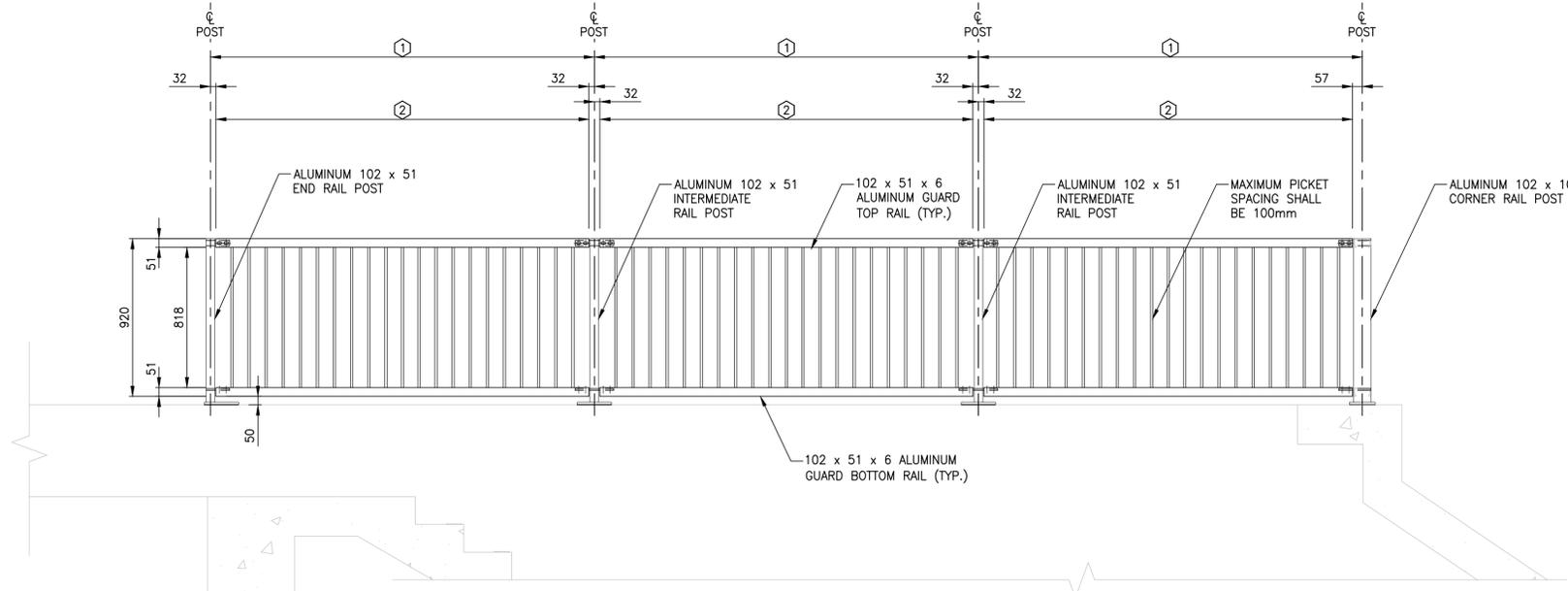
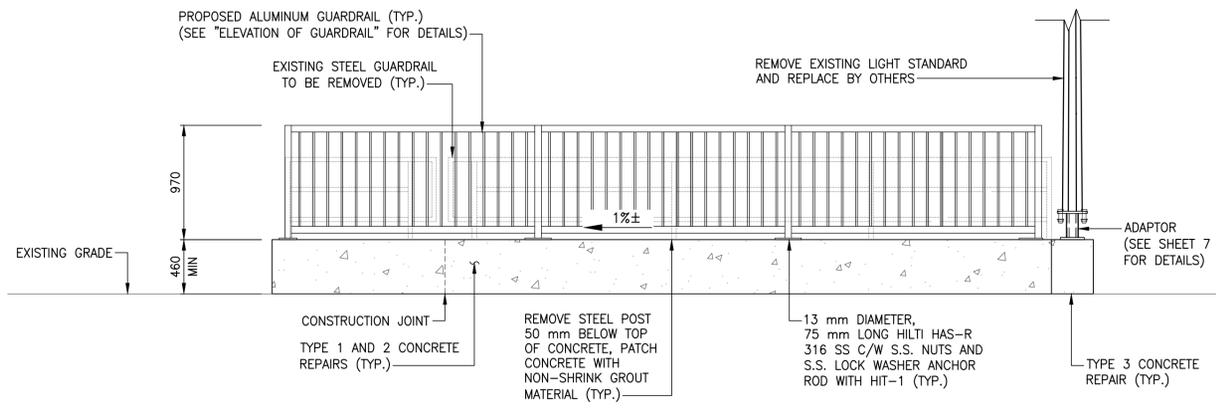


PLAN VIEW OF GUARDRAIL
 SOUTH ENTRANCE SHOWN, NORTH ENTRANCE SIMILAR
 SCALE 1:30



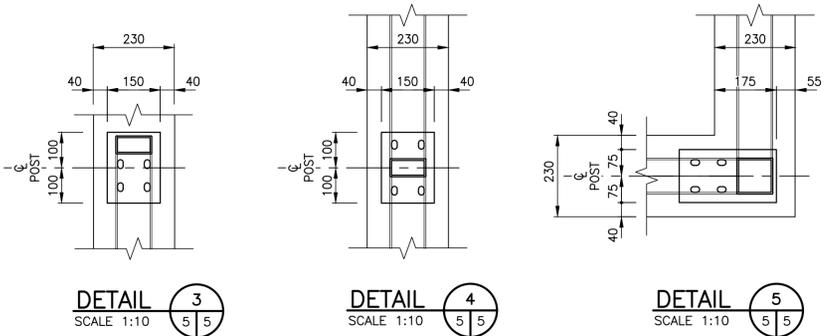
ELEVATION OF GUARDRAIL
 TYPE-A SHOWN, TYPE-B & TYPE-C SIMILAR
 SCALE 1:30



STAIR DETAIL
 NORTH SHOWN, SOUTH SIMILAR
 SCALE 1:30

PANEL TYPE	LENGTH (CL OF POST TO CL OF POST) ①	LENGTH OF ALUMINUM CHANNEL ②	QUANTITY
A	2244	2180	6
B	2126	2062	6
C	1596	1507	4

- NOTE**
- ALL GEOMETRY AND DIMENSIONS TO ALL EXISTING ELEMENTS HAVE BEEN REPRODUCED FROM THE ORIGINAL 1965 RECORD DRAWINGS AND HAVE NOT BEEN VERIFIED BY WSP CANADA GROUP LIMITED.
 - CONTRACTOR SHALL VERIFY ALL EXISTING GEOMETRY AS WELL AS PROPOSED DIMENSIONS AND LAYOUT IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
 - REMOVE ALL EXISTING STEEL RAIL POSTS AND HARDWARE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - THE 16 mm DIAMETER HOLES (4) IN THE BASE OF THE NEW PEDESTRIAN HANDRAIL POSTS ARE DESIGNED TO ACCOMMODATE 13 mm DIAMETER ANCHOR BOLTS AS DETAILED. SUPPLY EACH ANCHOR BOLT WITH ONE STAINLESS STEEL PLAIN WASHER AND ONE STAINLESS STEEL LOCK WASHER.
 - PLACE ONE NEOPRENE PAD UNDER EACH NEW POST BETWEEN NEW ALUMINUM SHIM AND CONCRETE SURFACE.
 - A COMBINATION OF 3.0 AND/OR 5.0 mm THICK NEW ALUMINUM GUARDRAIL POST SHIMS SHALL BE USED AS REQUIRED TO SET THE BARRIER RAIL TO THE SPECIFIED HEIGHT (MINIMUM 3.0 mm SHIM REQUIRED AT EACH NEW POST).
 - ALL EDGES AND CORNERS OF THE PEDESTRIAN GUARDRAIL POSTS AND RAIL SHALL BE ROUNDED IN THE SHOP, TO A SMOOTH 3 mm RADIUS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
 - ANY SHARP EDGES AND/OR CORNERS OF THE PEDESTRIAN GUARDRAIL SHALL BE ROUNDED IN THE FIELD, TO A SMOOTH 3 mm RADIUS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.



DETAIL 3
 SCALE 1:10

DETAIL 4
 SCALE 1:10

DETAIL 5
 SCALE 1:10



LOCATIONS APPROVED UNDERGROUND STRUCTURES

SIGNED BY: _____ DATE: _____
 SUPV U/G STRUCTURES

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

DESIGNED BY	MM	CHECKED BY	MLW
DRAWN BY	TS	APPROVED BY	JL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
0 ISSUED FOR TENDER	20.05.22	JL	
No. REVISIONS	DATE	BY	DATE
	20.05.22		



ENGINEER'S SEAL

CONSULTANT PROJECT No. 20M-00233-00

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

FERMOR AVENUE PEDESTRIAN UNDERPASS NEAR ST. MARY'S ROAD - MAINTENANCE WORKS

GUARDRAIL DETAILS (SHEET 1 OF 2)

CITY DRAWING NUMBER: U218-20-05
 BID OPPORTUNITY NUMBER: 372-2020
 SHEET OF: 5 7
 REV: 0

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.