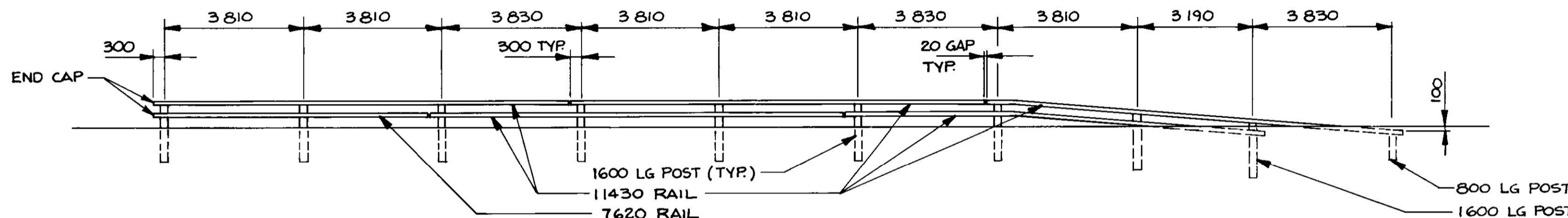
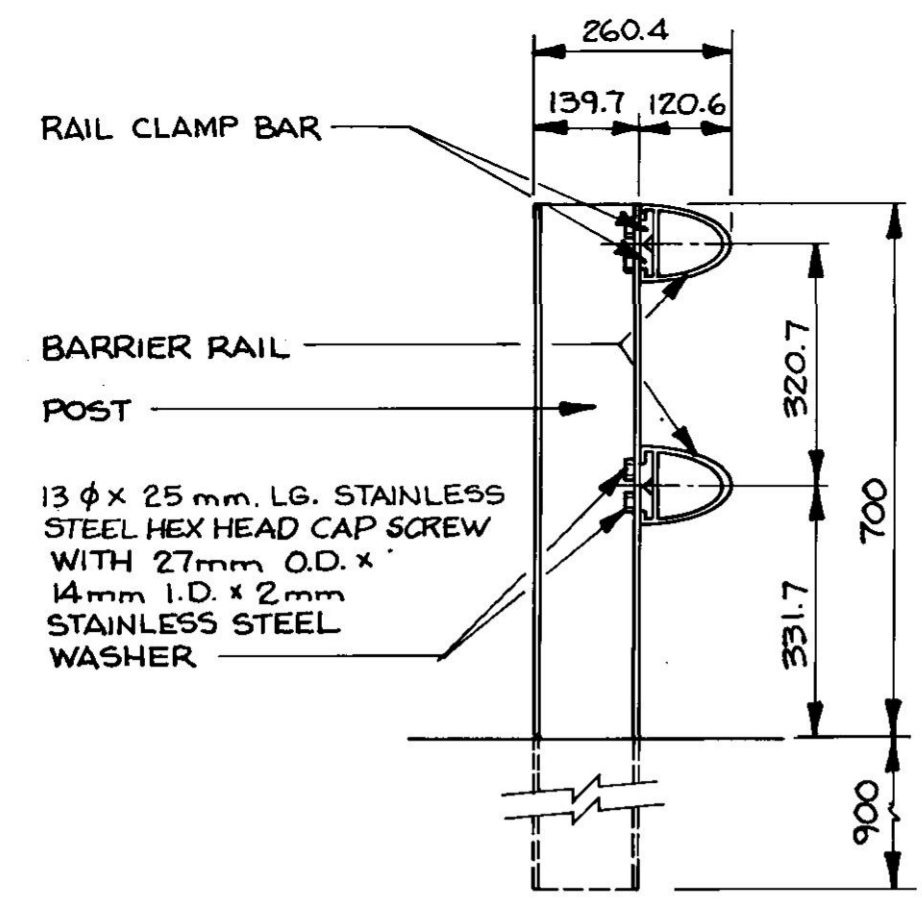


PLAN
SCALE 1:100



ELEVATION
SCALE 1:100

NOTE: BARRIER RAIL RELOCATION ON SOUTH SIDE OF PORTAGE AVE. SIMILAR TO BARRIER RAIL RELOCATION ON NORTH SIDE OF PORTAGE AVE.



RAIL POST ASSEMBLY DETAIL
SCALE 1:10

Balanced Shoulder Barrier
Bill of Materials

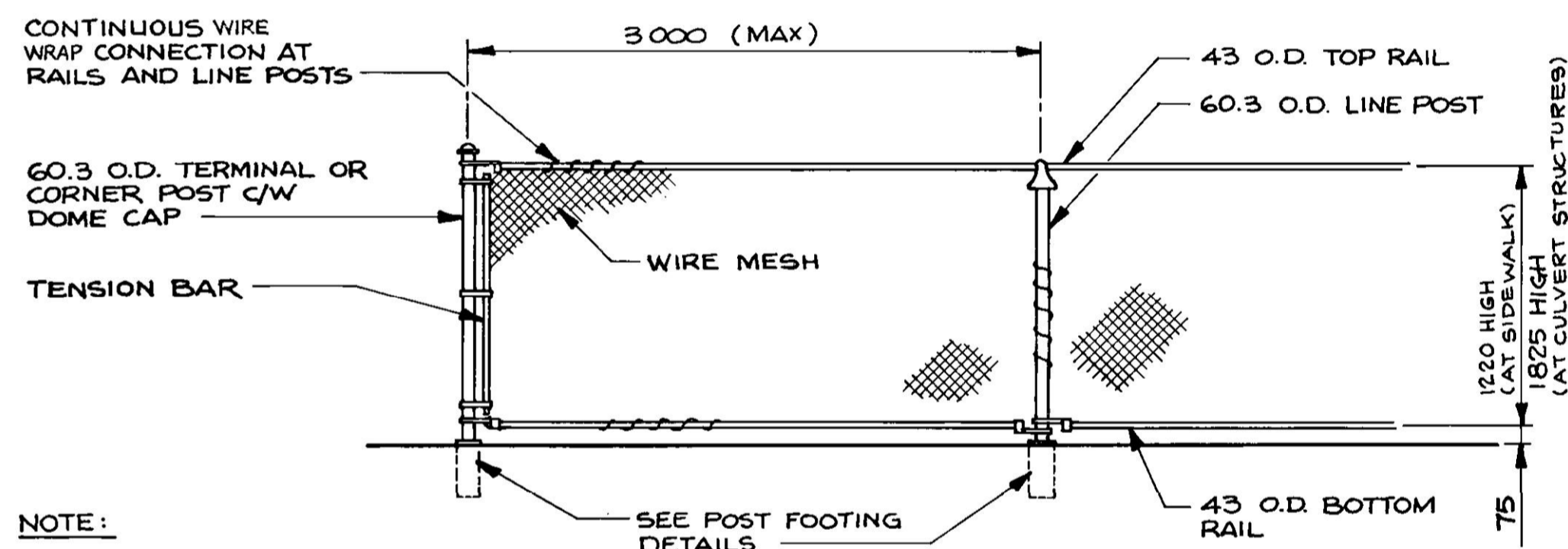
ITEM	NORTH SIDE		SOUTH SIDE		NEW FROM CITY
	EXISTING	PROPOSED	EXISTING	PROPOSED	
13 DIA. x 25 S/S HEX. HEAD CAP SCREW	96	92	96	92	*
27 O.D. x 14 I.D. x 2 THK. S/S WASHER	96	92	96	92	
RAIL CLAMP BAR	36	38	36	38	4
SPLICE BAR	6	4	4	4	
BARRIER POST (1600 MM LG)	9	9	9	9	
BARRIER POST (800 LG)	1	1	1	1	
RAIL END CAPS	2	2	2	2	
BARRIER RAIL (11430 mm LG)	5	5	5	5	
BARRIER RAIL (7620 mm LG)	0	1	0	1	2
BARRIER RAIL (5715 mm LG)	1	0	1	0	
BARRIER RAIL (900 mm END SECTION)	2	0	2	0	

* THE CITY WILL REPLACE CAP SCREWS C/W RAIL CLAMP BARS THAT ARE SEIZED OR STRIPPED, AS REQUIRED.

NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE PROPOSED RAIL LAYOUT IS DIFFERENT FROM THE EXISTING LAYOUT.
2. THE CONTRACTOR SHALL REINSTALL THE BALANCED SHOULDER BARRIER WITHIN THREE CONSECUTIVE DAYS OF BEING DISASSEMBLED.
3. EXISTING MATERIALS NOT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION SHALL BE SALVAGED AND RETURNED TO THE CITY.
4. ANTI-SEIZE COATING "LPS" TO BE APPLIED TO ALL THREADED COMPONENTS WHEN BEING ASSEMBLED.
5. TWO COATS, EACH 1 mm IN THICKNESS OF ALKALI-RESISTANT BITUMINOUS PAINT SHALL BE APPLIED ON THE SURFACE OF POST AND RAILS THAT ARE TO BE IN CONTACT WITH GROUND. THOROUGHLY CLEAN ALUMINUM BEFORE APPLICATION.

BALANCED SHOULDER BARRIER DETAILS

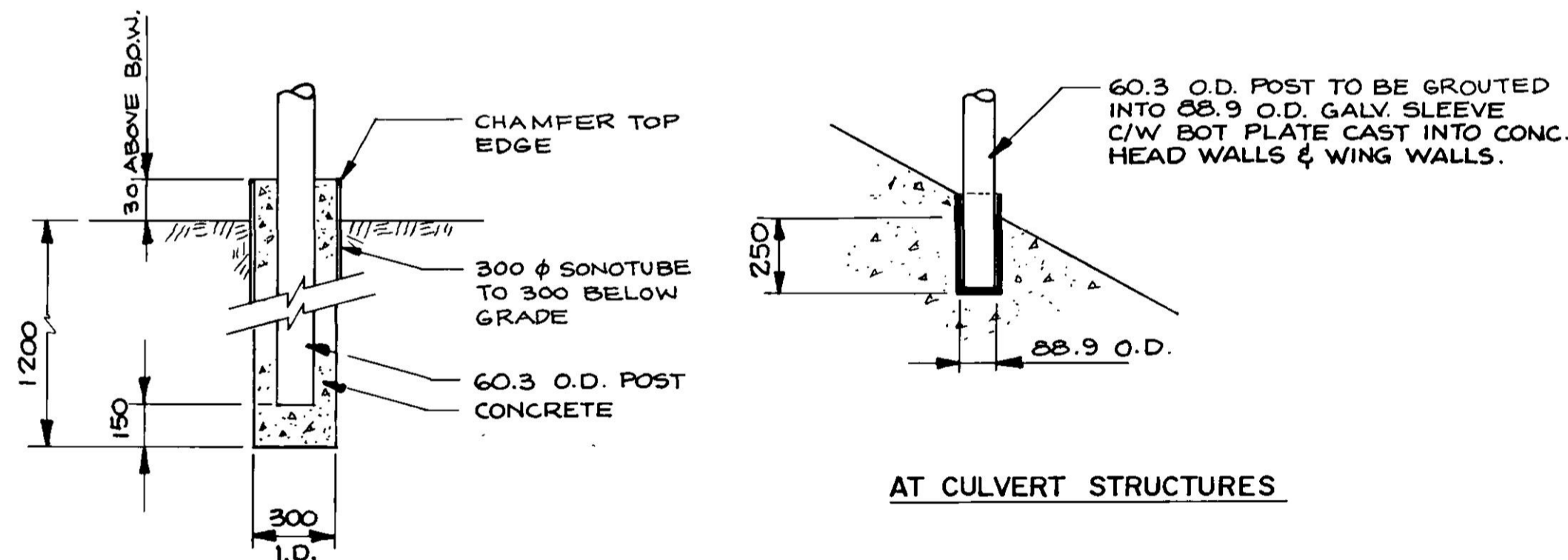


NOTE:

1. ALL FENCING TO BE GALV. AS SPECIFIED, AND TOUCHED UP USING THE HOT-APPLIED PROCESS AS SPEC'D.
2. ALL FENCING IS TO HAVE A SMOOTH PROFILE
3. NO SHARP POINTS TO REMAIN ON WIRE MESH FABRIC. FENCING MESH SHALL BE KNUCKLED AT BOTH EDGES.
4. ALL POSTS TO BE VERTICAL

CHAIN LINK FENCE DETAILS

SCALE 1:30



POST FOOTING DETAILS

SCALE 1:20



LOCATION APPROVED UNDERGROUND STRUCTURES N/A SUPV. U/G STRUCTURES COMMITTEE DATE	B.M. ELEV.		ENGINEER'S SEAL 	THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION STREETS AND TRANSPORTATION DEPARTMENT	
				DESIGNED BY: BAN CHECKED BY: BAN DRAWN BY: D.M.W. APPROVED BY: [Signature] AUTHORIZED BY: [Signature] DATE: 9/11/93 OR WITH SENIOR BRIDGE ENGINEER ACCEPTED BY: [Signature] DATE: 9/11/93 B. BRIDGESPANNER / BRIDGE ENGINEER	CONSULTANT DRAWING NO.
NO REVISIONS DATE BY		DATE: MAY 1993	CONSULTANT DRAWING NO.	1993 BRIDGE MAINTENANCE MISCELLANEOUS CONCRETE REHABILITATION WORKS - PHASE II PORTAGE AVE. AT TRURO CREEK MISCELLANEOUS DETAILS	
				B-5928-3	