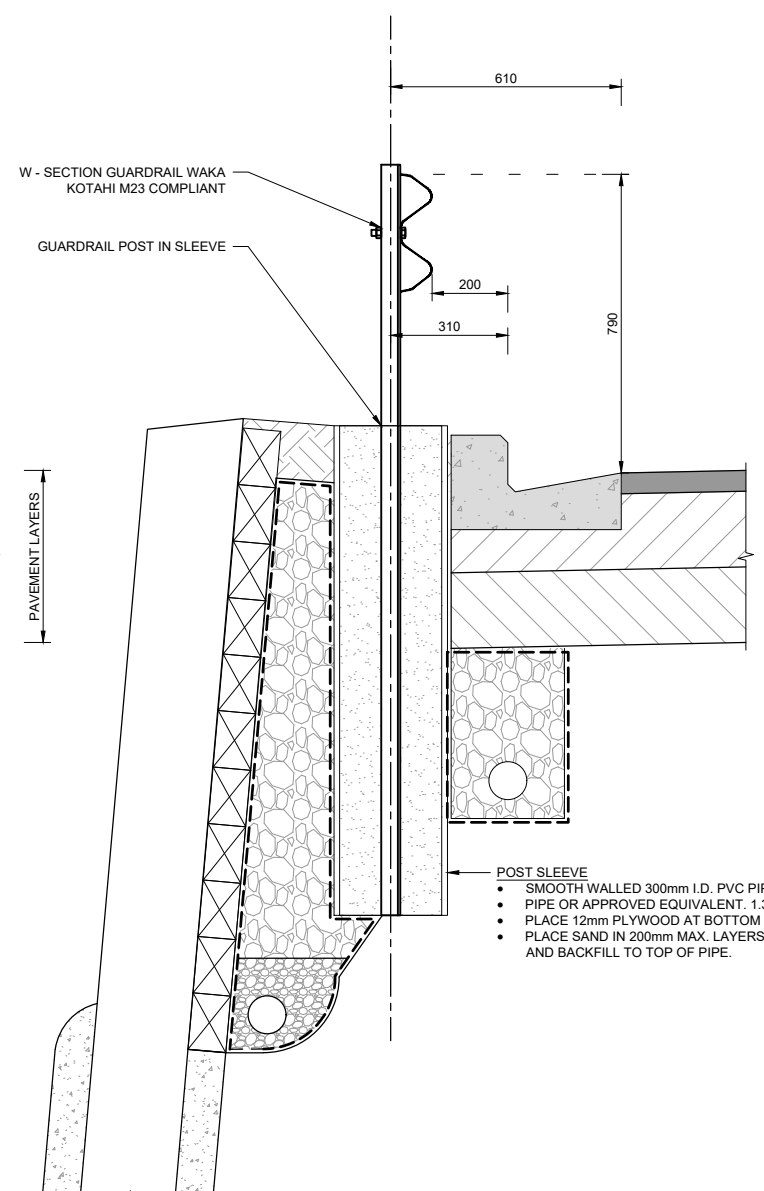
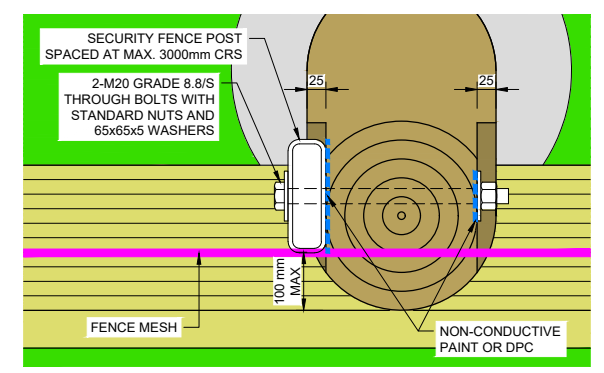


TYPICAL CROSS SECTION - TIMBER RETAINING WALL
SCALE: 1:10 @ A1, 1:20 @ A3

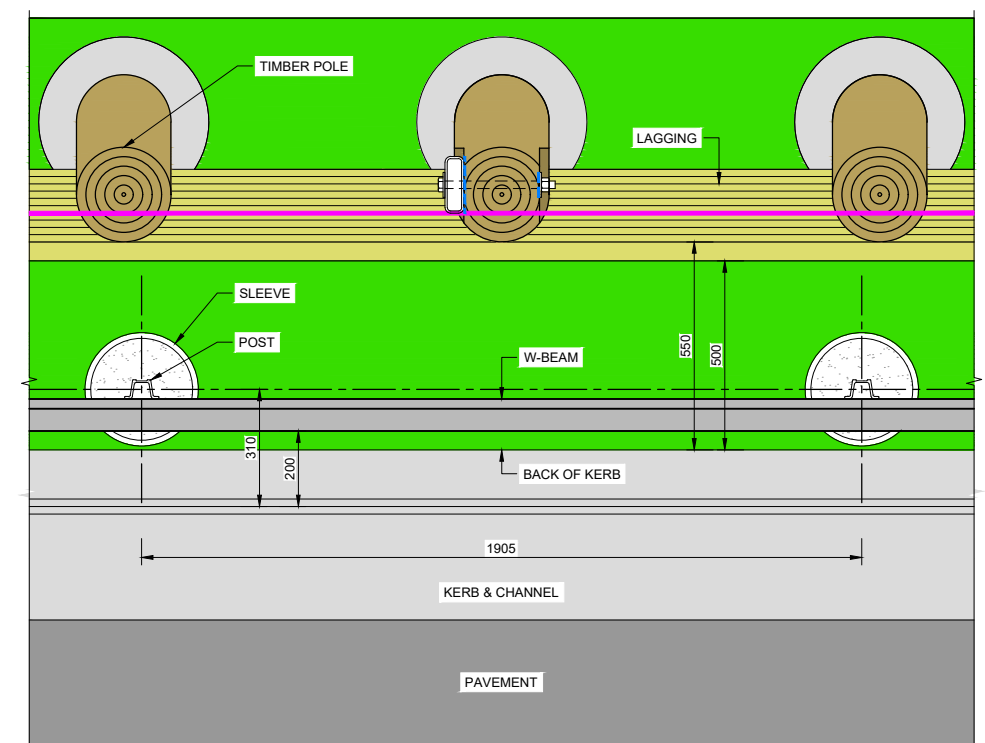
SECURITY FENCE
1. FOR MORE DETAILS AND NOTES REFER TO SHEET C-8003



TYPICAL SLEEVED GUARDRAIL SECTION
SCALE 1:10 @ A1, 1:20 A3



A SECTION
SCALE: 1:5



GUARDRAIL SET-OUT PLAN
SCALE 1:10 @ A1, 1:20 A3

TIMBER RETAINING WALL NOTES

1. ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED.
2. ALL DWGS TO BE READ IN CONJUNCTION WITH THE WSP GEOTECHNICAL SPECIFICATION.
3. FOR GENERAL ARRANGEMENTS OF WORKS SHOWN ON THIS DWG, REFER TO CIVIL DWGS.
4. EXISTING SERVICES NOT SHOWN. VERIFY LOCATION OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS.
5. CONTRACTOR SHALL SET OUT THE PILE LOCATIONS & THESE MUST BE AGREED TO BY THE ENGINEER PRIOR TO INSTALLATION.
6. SHOULD ANY CHANGES TO THE PILE SPACING BE REQUIRED BECAUSE OF SERVICES, PRIOR APPROVAL MUST BE OBTAINED FROM THE ENGINEER.
7. TIMBER LAGGING SHOULD BE MADE TO FIT AROUND THE SERVICES AS NECESSARY.
8. TIMBER TREATMENT SHALL USE CCA (COPPER CHROME ARSENIC) PRESERVATIVE.
9. WHERE STEEL IS IN CONTACT WITH TREATED TIMBER A NON-CONDUCTIVE PAINT SYSTEM SHALL BE APPLIED, OR ALTERNATIVELY A DAMP PROOF COURSE (DPC) SHALL BE PLACED BETWEEN THE STEEL AND TIMBER.
10. ALL TIMBER TREATMENTS TO BE AS SPECIFIED IN NZS 3602:2003.
11. FENCE FIXINGS IN CONTACT WITH TIMBER TO BE STAINLESS STEEL GRADE 316. APPROVED ISOLATION KITS TO BE PROVIDED BETWEEN STAINLESS STEEL FIXINGS AND HDG ELEMENTS.

TABLE 1 - TIMBER POLE & LAGGING SCHEDULE

WALL TYPE	MAXIMUM RETAINED HEIGHT (m)	POLE SPACING (m)	MIN EMBED DEPTH (m)	LAGGING DIMENSIONS (mm)
TYPE 1 (TIMBER)	< 1.50	1.5 CRS	5.0	100 x 150
TYPE 2 (TIMBER)	1.50 - 2.20	1.0 CRS		

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13



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CIVIL

SCALES	DESIGNED	APPROVED
1:10, 20 (A1), 1:20, 40 (A3)	S. GABRIEL	F. RAHMAN
DRAWN	DESIGN VERIFIED	APPROVED DATE
C. ESPINOSA	S. ARUMUGAM	2023-11-13
DRAWING VERIFIED		
C. NELLES		

TENDER

PROJECT
WAKA KOTAHI NZ TRANSPORT AGENCY
BOMBAY, AUCKLAND
WEIGH RIGHT PROGRAMME - BOMBAY CVSC
TITLE
RETAINING WALL DETAILS - SHEET 1 OF 2
TIMBER POLE
WSP PROJECT NO. (SUB-PROJECT)
5C4353-WSP-54-DR-
SHEET NO.
C-3010
REVISION
0A