



0 0.5 1.0 1.5 2.0 2.5m SCALE 1:50 AT ORIGINAL SIZE

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Cheet WAKA KOTAHI NZ TRANSPORT AGENCY Tight RAIL WORKS LONGITUDINA

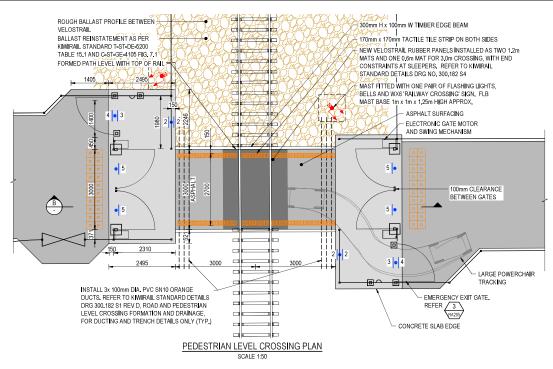
TINWALD CORRIDOR IMPROVEMENTS

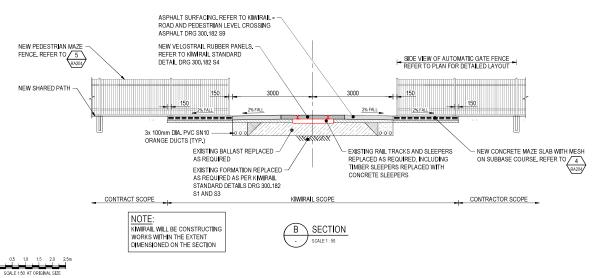
Prewing RAIL WORKS
LONGITUDINAL SECTION OF RAILWAY LINE

Size A1

Project No. 12560966 Status CONSTRUCTION

Status S4 12560966-RA





GENERAL NOTES:

- ALL WORKS TO BE PERFORMED BY THE CONTRACTOR EXCEPT AS STATED AS 'KIWIRAIL SCOPE'.
- CONTRACTOR TO CONFIRM FINAL LOCATION ONSITE WITH ENGINEER AND DATE OF AUTOMATIC GATES INSTALLATION WITH KIWIRAIL NOMINATED AUTOMATIC GATES CONTRACTOR.
- ALL DIMENSIONS ON THIS DRAWING ARE IN MILLIMETRES UNLESS STATED.
- LEVELS AND GRADES ARE TO BE SHOWN ON LAYOUT PLANS.

MAZE FENCING:

- STEEL FENCE WIRE TO BE HIGH TENSILE WITH ULTIMATE STRENGTH OF 600-800N/mm.
- THE WIRES ARE BE ELECTRONICALLY WELDED TO COMPLY WITH AS/NZS 4671:2001.
- TOLERANCES ON OVERALL DIMENSIONS OF THE FINISHED PANEL TO BE 25mm AND BARS TO BE PLACED WITHIN 2mm OF THEIR TRUE LOCATION.
- FOLDED PANEL POSTS AND BASE PLATES TO BE GALVANISED TO SPECIFICATION CES 3,6:1992.
- SHARP EDGES OF THE PANEL ARE TO BE ROUNDED OFF BEFORE GALVANIZING.
- POSTS MUST BE INSTALLED VERTICAL.
- FENCE PANELS MUST NOT HAVE MORE THAN 100mm GAP FROM GROUND LEVEL TO INSTALLED
- ENSURE ADEQUATE CLEARANCE IS PROVIDED FOR ACCESS TO THE MOTOR FOR MAINTENANCE. FOR AUTOMATIC GATES, PROVIDE 100mm CLEARANCE BETWEEN GATE AND CLOSING POST TO
- AVOID CRUSH INJURY BUT NO LARGER TO ENSURE A CLOSED GATE PREVENTS ACCESS TO THE RAIL CORRIDOR.

ASPHALT FOOTPATH CROSSING:

DEPTH OF BASECOURSE MATERIAL TO BE INCREASED WHERE CBR > 10 IS NOT ACHIEVABLE.

PEDESTRIAN GATE CONCRETE SLAB:

- SUBGRADE CBR REQUIREMENT > 5%.
- GAP40 OR EQUIVALENT BASECOURSE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS/NZS 4402:1996. CBR REQUIREMENT OF 10%.
- THE CONTRACTOR SHALL UNDERTAKE SUBGRADE TESTING TO CONFIRM THE SUBGRADE STRENGTH PRIOR TO COMMENCEMENT OF NEW PAVEMENT CONSTRUCTION WORKS, SCALA PENETROMETER TESTING MUST BE UNDERTAKEN IN A GRID PATTERN OF AT MAXIMUM 2x2m. TESTING OF THE SUBGRADE SHALL COMMENCE AT THE LESSER OF GROUND LEVEL OR 300mm BELOW THE TOP FORMATION LEVEL. BLOW COUNTS SHALL BE RECORDED AT 100mm INTERVALS AND EACH TEST SHALL EXTEND A MINIMUM OF 1m DEPTH. THE MAXIMUM ALLOWABLE PENETRATION RATE IS 50mm/BI OW FOR CBR 3.5% OVER A DEPTH OF 1.0m BELOW THE TOP OF THE DESIGN SUBGRADE SURFACE, SHEAR VANE TESTING MUST ALSO BE UNDERTAKEN, THE SHEAR VANE STRENGTH SHOULD BE EQUAL TO OR GREATER THAN 140KPa FOR CBR 5.5%. IF CBR < 5.5% CONTACT ENGINEER FOR INSTRUCTION.
- THE PAVEMENT THICKNESS MAY BE REVISED PENDING SUBGRADE CRR TESTING RESULTS.
- THE CONTRACTOR SHALL PROTECT THE SUBGRADE AND KEPT FREE OF STANDING WATER AT ALL TIMES
- CONCRETE FINISH TO BE 30MPa STRENGTH AT 28 DAYS WITH CLASS U5 IN ACCORDANCE WITH NZS 3114 SPECIFICATIONS FOR CONCRETE SURFACE FINISHES.
- SAWCUTS AT 2m CENTRES (MAX) AT 25-30% OF THE SLAB THICKNESS
- CONSTRUCT SLAB 2% FALL ON MAZE CONCRETE SLAB IN DIRECTIONS SHOWN.
- SLAB WEIGHT TO BE ASSESSED FOR JOINTING AND LIFTING POINTS AT SHOP FABRICATION. SHOP DRAWINGS TO BE APPROVED BY KIWIRAIL.
- IF REQUIRED, SLAB JOINTING TO FOLLOW KIMIRAIL LEVEL CROSSING MAZE STANDARD 26807 10. SHEET 6.
- IF REQUIRED, GROUND BEAM FOR SLAB LENGTH TO FOLLOW KIWIRAIL LEVEL CROSSING MAZE STANDARD 26807 SHEET 5 "MOULD SG SINGLE GATE GROUND BEAM". LENGTHENED TO SUIT DOUBLE GATE SLAB
- REFER TO KIWIRAIL \$,26807 FOR LEVEL CROSSING MAZE FOR DETAILS, INCLUDING: IN-SITU CONCRETE SPECIFICATIONS, DOUBLE GATE LAYOUT, GATE AND FENCING DETAILS, LAYOUT AND SIGNAGE DETAILS; OR SUBSEQUENT STANDARD/S. WHERE INFORMATION CONFLICTS, THIS LAYOUT AND ENGINEER INSTRUCTION TAKES PRECEDENT.
- ALL NEW ASPHALT FOOTPATH AS PER ARC STD DRG G-102.
- CONTRACTOR TO ALLOW FOR LIFTING POINTS AND ADDITIONAL REINFORCEMENT AS REQUIRED.

RAIL CROSSING:

FOR DETAILS OF PEDESTRIAN RAIL CROSSING FORMATION AND DRAINAGE, GRADING, SURFACING, PAVEMENT ETC REFER TO KIWIRAL ROAD AND PEDESTRIAN LEVEL CROSSINGS, STANDARD DETAIL DRG NOS: 300.182 S1, S2, S3, S4 AND S9,

SIGNAGE:

- FOR SIGNAGE DETAILS REFER TO DRG 12560966-RA205.
- BACK TO BACK WX8 'LOOK FOR TRAINS' SIGNS.
- 'EMERGENCY EXIT PLEASE PUSH GATE' SIGN.
- RD2 'NO ENTRY' SIGN.
- 'EMERGENCY EXIT WITH RIGHT ARROW' SIGN. 5.



TINWALD CORRIDOR IMPROVEMENTS

Status S4

Client WAKA KOTAHI NZ TRANSPORT AGENCY Drawing RAIL WORKS PEDESTRIAN LEVEL CROSSING PLAN AND SECTION

LEGEND - PROPOSED

PANEL

FENCE

WX6 SIGN

REFER 1A

REFER 1B

PROPOSED SIGN

0

CONCRETE SHARED PATH

AC SHARED PATH

VELOSTRAIL RUBBER

MAST FITTED WITH ONE

PAIR OF FLASHING LIGHTS,

BELL AND 100mm x 250mm

90x90x6 SHS GATE POST

90x90x6 SHS GATE POST

WITH 400x400 BASE PLATE.

50x50x5 SHS FENCE POST

WITH 125x125 BASE PLATE. REFER 2

WITH 220x220 BASE PLATE.

WAKA KOTAHI

KiwiRail # Upgrade

0 ISSUED FOR TENDER

Author BY OTHERS

Designer BY OTHERS

Drafting Check KIWIRAII

Design Check KliWIRAIL

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