

NELSON CITY COUNCIL

Cable Bay Road Remediation, Contract No: EC 3424

Tender Issue

DRAWING Rev Title

GENERAL INFORMATION - SITE 22

- 870982.1022-00 A Location Plan and Drawing List
- 870982.1022-01 A Existing Site and Site Investigation Plan
- 870982.1022-02 A Working Areas & Erosion Sediment Control Plan

GABION WALL DESIGN - SITE 22

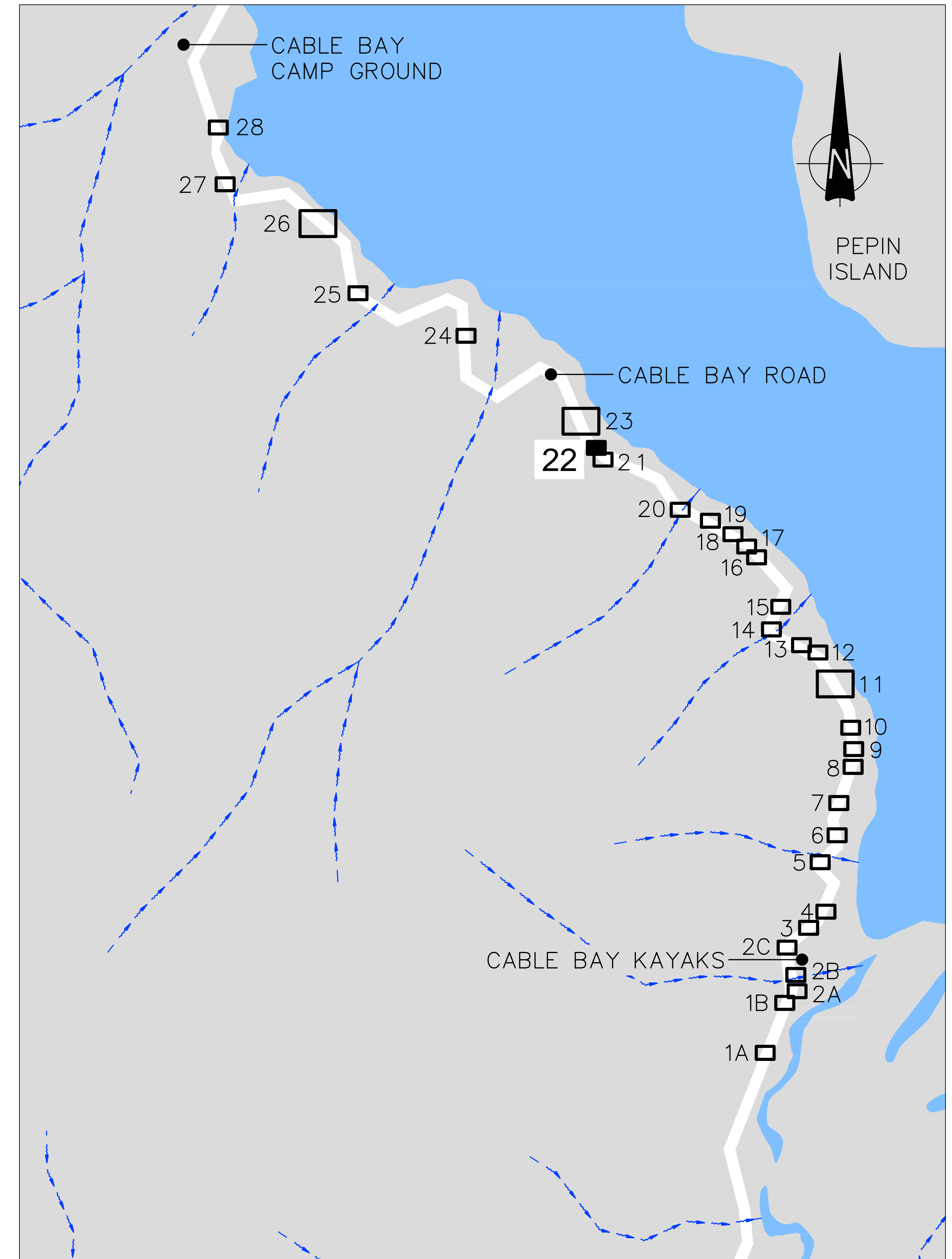
- 870982.1022-10 A General Arrangement
- 870982.1022-20 A Sections - Sheet 1 of 3
- 870982.1022-21 A Sections - Sheet 2 of 3
- 870982.1022-22 A Sections - Sheet 3 of 3
- 870982.1022-23 A Elevation
- 870982.1022-24 A Anchor Head Details

- Denotes drawing this issue: 08/05/2013


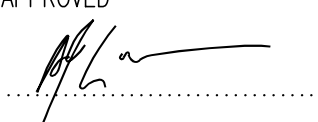


Topomap sourced from Land Information New Zealand data (Crown Copyright Reserved).

LOCALITY MAP
SCALE 1: 100,000



SITE LOCATION PLAN
SCALE 1:5,000

 Nelson City Council te kaunihera o whakatū NETWORK SERVICES DEPARTMENT	APPROVED  EXECUTIVE MANAGER NETWORK SERVICES
	DATE: 15/4/2013 REV.
NCC Plan No. 19-0076	

DRAWING STATUS: TENDER ISSUE

DESIGNED :	DJA	Jul. 12
DRAWN :	DWM	Jul. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-00.dwg	
APPROVED :		
NOT FOR CONSTRUCTION This drawing is not to be used for construction purposes unless signed as approved		
REVISION DESCRIPTION	BY	DATE
1 Consultation Issue	MPD	Nov. 12

NOTES :
REFERENCE :


Tonkin & Taylor
 Environmental and Engineering Consultants

 43 Halifax St, Nelson
 Tel. (03) 546 6339 Fax. (03) 546 7619
 www.tonkin.co.nz

CLIENT, PROJECT	NELSON CITY COUNCIL	
TITLE	CABLE BAY ROAD REMEDIATION	
TITLE	GENERAL INFORMATION - SITE 22	
TITLE	Location Plan and Drawing List	
SCALES (AT A1 SIZE)	DWG. No.	REV.
AS SHOWN	870982.1022-00	A



LEGEND

- Approximate edge of seal
- - - Property Boundary
- ▲ Landslip head scarp
- 10 Existing contours (5m interval)
- 0.5 Existing contours (0.5m interval)
- Fo Fibre optic cable
- ← Stormwater Flow Path
- Existing Watercourse
- Existing Culvert Pipe
- ⊗ SC Scala penetrometer test location
- ⊕ DH 1 Drillhole test location
- ◇ AH 1 Machine auger hole location
- ⊗ PH 1 Fibre optic pothole location
- 1000 Distance along road alignment (From State Highway 6 intersection)

A3 SCALE 1: 200
 A1 SCALE 1: 100
 0 1 2 3 4 6 8 10 (m)

Nelson City Council
 te kaunihera o whakatū

APPROVED
 EXECUTIVE MANAGER
 NETWORK SERVICES

DATE .15./4./20.13

NCC Plan No. 19-0076

DRAWING STATUS: TENDER ISSUE

DESIGNED :	MPD	Oct. 12
DRAWN :	DWM	Oct. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-01.dwg	
APPROVED :	NOT FOR CONSTRUCTION	
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REVISION DESCRIPTION	BY	DATE
1 Consultation Issue	MPD	Nov. 12

NOTES :

- Nelson Circuit (2000) coordinates. Levels to NCC Datum.
- The Contractor shall confirm the location/depth of all services prior to any excavation.
- All works shall comply with the latest version of the NCC Land Development Manual and all amendments.
- Works outside the reconstruction area shall be reinstated as per NCC Land Development Manual.
- Special care shall be taken to ensure there is no damage to fences and gardens on private property. Any damage is to be repaired promptly at the Contractor's cost.
- Property boundaries, services location and culvert location supplied by DOP Ltd.

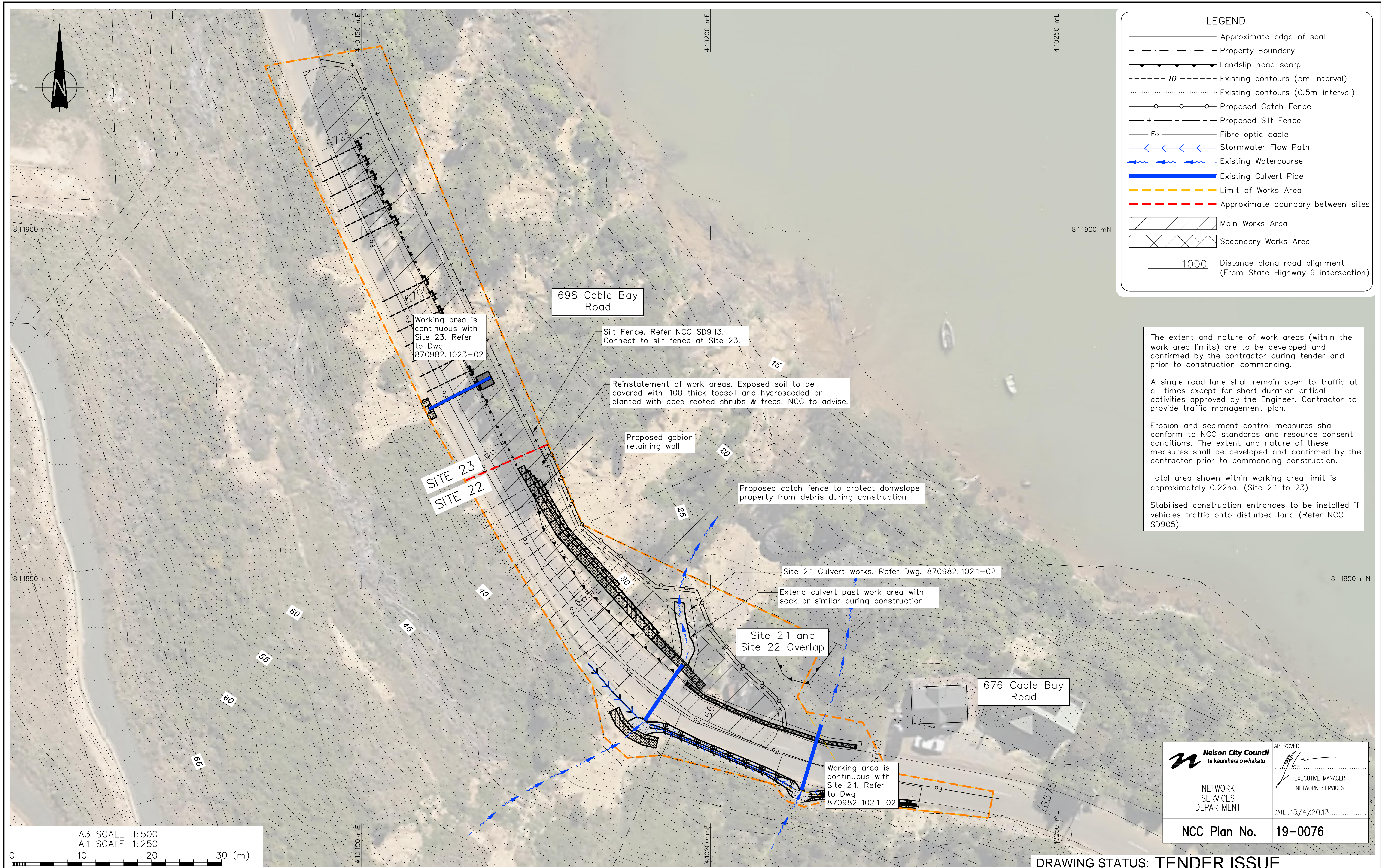
REFERENCE : LiDAR contours and aerial photos supplied by NCC.

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CLIENT, PROJECT	NELSON CITY COUNCIL	
	CABLE BAY ROAD REMEDIATION	
TITLE	GENERAL INFORMATION – SITE 22	
	Existing Site and Site Investigation Plan	
SCALES (AT A1 SIZE)	DWG. No.	REV.
1: 100	870982.1022-01	A

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LEGEND

- Approximate edge of seal
- - - Property Boundary
- ▲ Landslip head scarp
- - - 10 Existing contours (5m interval)
- Existing contours (0.5m interval)
- Proposed Catch Fence
- + + + Proposed Silt Fence
- Fo — Fibre optic cable
- ← Stormwater Flow Path
- ~ Existing Watercourse
- Existing Culvert Pipe
- Limit of Works Area
- - - Approximate boundary between sites
- ▨ Main Works Area
- ▩ Secondary Works Area
- 1000 Distance along road alignment (From State Highway 6 intersection)

The extent and nature of work areas (within the work area limits) are to be developed and confirmed by the contractor during tender and prior to construction commencing.

A single road lane shall remain open to traffic at all times except for short duration critical activities approved by the Engineer. Contractor to provide traffic management plan.

Erosion and sediment control measures shall conform to NCC standards and resource consent conditions. The extent and nature of these measures shall be developed and confirmed by the contractor prior to commencing construction.

Total area shown within working area limit is approximately 0.22ha. (Site 21 to 23)

Stabilised construction entrances to be installed if vehicles traffic onto disturbed land (Refer NCC SD905).

A3 SCALE 1:500
 A1 SCALE 1:250

0 10 20 30 (m)

DESIGNED :	MPD	Nov. 12
DRAWN :	DJAA	Nov. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-02.dwg	
APPROVED :		
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1 Consultation Issue	MRF	Nov. 12

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CLIENT, PROJECT		NELSON CITY COUNCIL	
		CABLE BAY ROAD REMEDIATION	
TITLE		GENERAL INFORMATION – SITE 22	
		Working Areas & Erosion Sediment Control Plan	
SCALES (AT A1 SIZE)	DWG. No.	REV.	
1:250	870982.1022-02	A	

Nelson City Council
 te kaunihera o whakatū

NETWORK SERVICES DEPARTMENT

APPROVED

EXECUTIVE MANAGER
 NETWORK SERVICES

DATE 15/4/2013

NCC Plan No. 19-0076

DRAWING STATUS: TENDER ISSUE

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LEGEND

- Approximate edge of seal
- - - Property Boundary
- ▲ Landslip head scarp
- - - 10 Existing contours (5m interval)
- - - Existing contours (0.5m interval)
- Fo — Fibre optic cable
- ← Stormwater Flow Path
- Existing Watercourse
- Existing Culvert Pipe
- Setout Point
- 1000 Distance along road alignment (From State Highway 6 intersection)

SETOUT

Point	Northing	Easting
1	811866.22 mN	410172.43 mE
2	811856.61 mN	410178.00 mE
3	811834.62 mN	410198.56 mE

Nelson City Council
te kaunihera o whakatū

APPROVED

EXECUTIVE MANAGER
NETWORK SERVICES

DATE: 15/4/2013

NCC Plan No. 19-0076

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REVISION DESCRIPTION	BY	DATE
1 Consultation Issue	MPD	Nov.12

DESIGNED :	DJA	Jul. 12
DRAWN :	DWM	Jul. 12
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CADFILE :	\\870982.1022-10.dwg	
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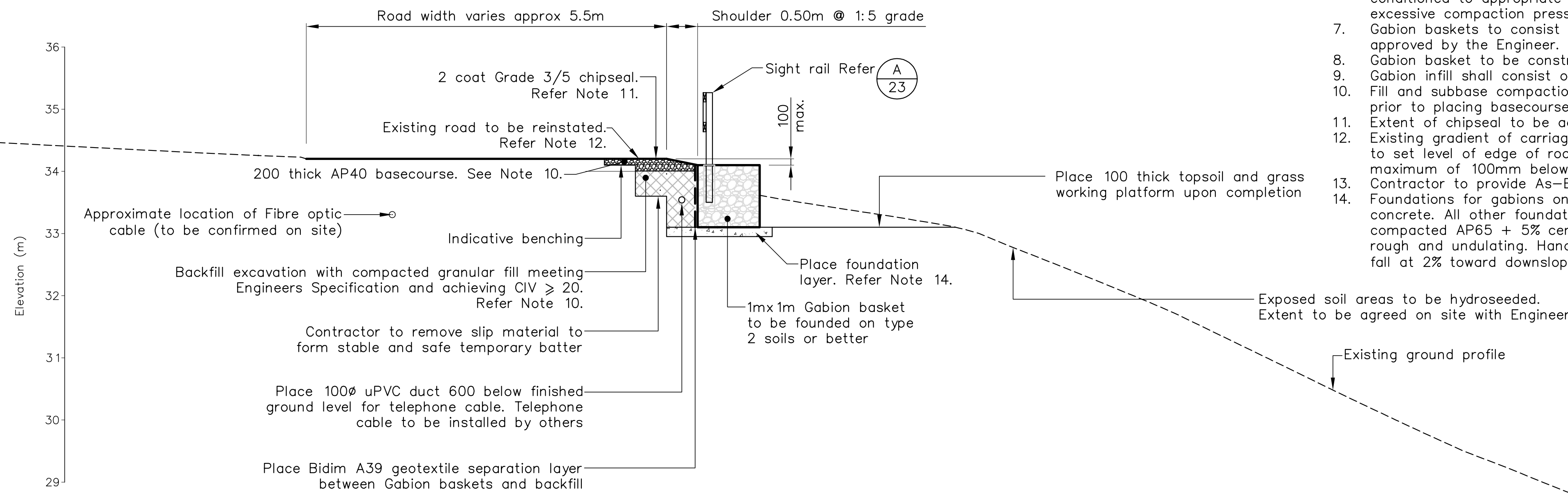
REFERENCE : LiDAR contours and aerial photos supplied by NCC.

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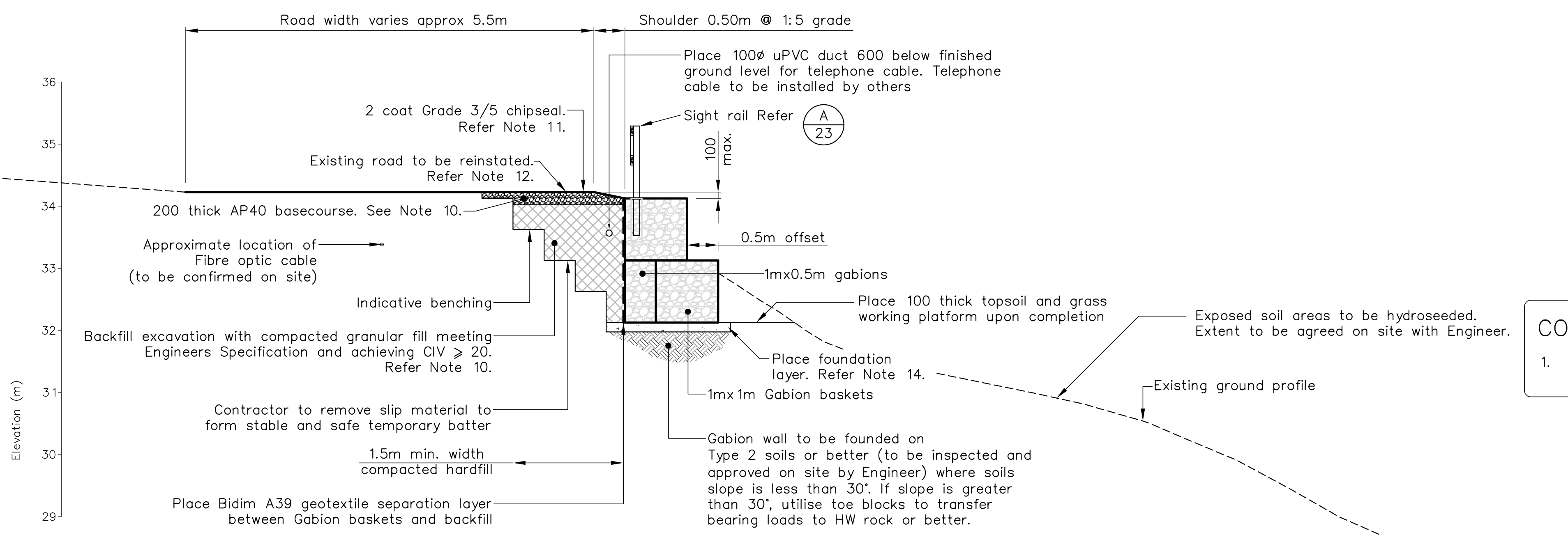
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CLIENT, PROJECT	NELSON CITY COUNCIL CABLE BAY ROAD REMEDIATION
TITLE	GABION WALL DESIGN – SITE 22 General Arrangement
SCALES (AT A1 SIZE)	1:100
DWG. No.	870982.1022-10
REV.	A

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SECTION 1 1m HIGH WALL
SCALE 1:50



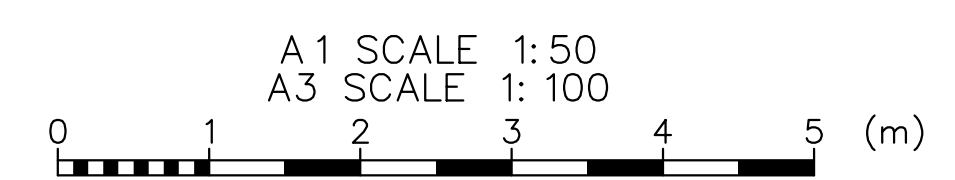
SECTION 2 2m HIGH WALL
SCALE 1:50

- NOTES: (continued):
- Backfill to be placed and compacted in 150mm thick horizontal layers with a minimum of 4 passes of a pedestrian roller or equivalent vibrating plate compactor or trenching tool (to be approved by the Engineer). Backfill shall be conditioned to appropriate moisture content. Care shall be taken to avoid excessive compaction pressures on the new retaining wall.
 - Gabion baskets to consist of wire that is Galvan and PVC coated or similar approved by the Engineer.
 - Gabion basket to be constructed in accordance with manufacturers specifications.
 - Gabion infill shall consist of 100-250mm rock as agreed by Engineer.
 - Fill and subbase compaction to be tested in accordance with the Specification prior to placing basecourse and chipseal.
 - Extent of chipseal to be agreed on site with the Engineer.
 - Existing gradient of carriageway to be established and projected to edge of seal to set level of edge of road. The top of the upper gabion basket is to be a maximum of 100mm below top of seal.
 - Contractor to provide As-Built Drawings and PS3 on completion of works.
 - Foundations for gabions on Type 1 or Type 2 soils to be min. 150 thick site concrete. All other foundations to be either min. 150 thick site concrete or compacted AP65 + 5% cement blinding layer to form level base. All surfaces to be rough and undulating. Hand form 50 wide shallow drainage channels in surface to fall at 2% toward downslope side at 2m c/c spacing extending under gabion basket.

CONSTRUCTION NOTES:
1. Type 2 soil has scala blow counts ≥ 2 blows / 50mm

<p>Nelson City Council te kaunihera o whakatū</p> <p>NETWORK SERVICES DEPARTMENT</p>	<p>APPROVED</p> <p>EXECUTIVE MANAGER NETWORK SERVICES</p>
	<p>DATE: 15/4/2013</p>
<p>NCC Plan No. 19-0076</p>	

DRAWING STATUS: TENDER ISSUE



DESIGNED :	DJA	Jul. 12
DRAWN :	DWM	Jul. 12
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CADFILE :	\\870982.1022-20_23.dwg	
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1 Consultation Issue	MPD	Nov. 12

NOTES :

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- LiDAR contours and aerial photos supplied by: Nelson City Council.
- Property boundaries, services location and culvert location supplied by: Davis Ogilvie & Partners Ltd.
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REFERENCE :

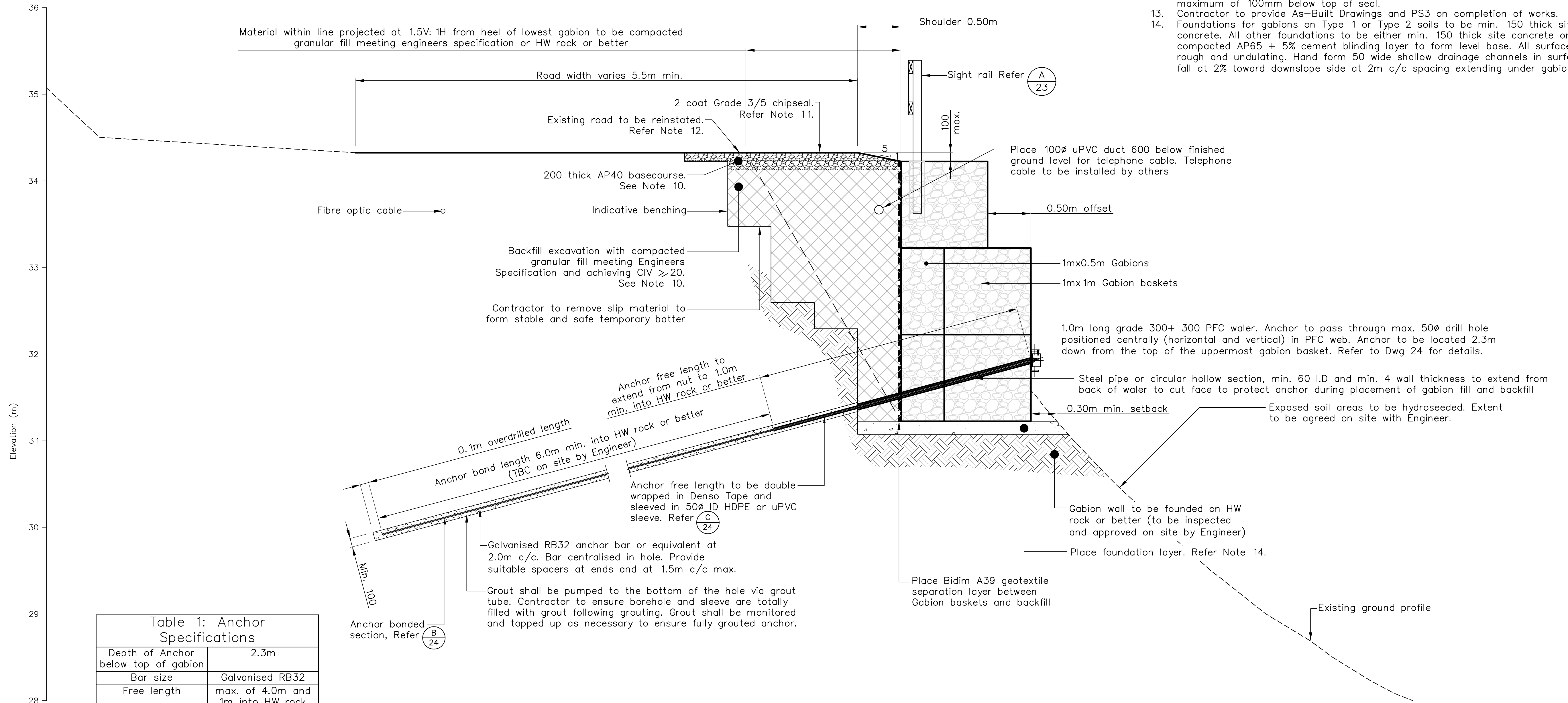
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CLIENT, PROJECT	NELSON CITY COUNCIL CABLE BAY ROAD REMEDIATION	
TITLE	GABION WALL DESIGN - SITE 22 Sections - Sheet 1 of 3	
SCALES (AT A1 SIZE)	1:50	DWG. No. 870982.1022-20
REV.	A	

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- NOTES: (continued):
- Backfill to be placed and compacted in 150mm thick horizontal layers with a minimum of 4 passes of a pedestrian roller or equivalent vibrating plate compactor or trenching tool (to be approved by the Engineer). Backfill shall be conditioned to appropriate moisture content. Care shall be taken to avoid excessive compaction pressures on the new retaining wall.
 - Gabion baskets to consist of wire that is Galvan and PVC coated or similar approved by the Engineer.
 - Gabion basket to be constructed in accordance with manufacturers specifications.
 - Gabion infill shall consist of 100-250Ø rock as agreed by Engineer.
 - Fill and subbase compaction to be tested in accordance with the Specification prior to placing basecourse and chipseal.
 - Extent of chipseal to be agreed on site with the Engineer.
 - Existing gradient of carriageway to be established and projected to edge of seal to set level of edge of road. The top of the upper gabion basket is to be a maximum of 100mm below top of seal.
 - Contractor to provide As-Built Drawings and PS3 on completion of works.
 - Foundations for gabions on Type 1 or Type 2 soils to be min. 150 thick site concrete. All other foundations to be either min. 150 thick site concrete or compacted AP65 + 5% cement blinding layer to form level base. All surfaces to be rough and undulating. Hand form 50 wide shallow drainage channels in surface to fall at 2% toward downslope side at 2m c/c spacing extending under gabion basket.



Depth of Anchor below top of gabion	2.3m
Bar size	Galvanised RB32
Free length	max. of 4.0m and 1m into HW rock
Bonded length	6.0m
Inclination	15°
Min. hole Diameter	100mm
Static working load	40kN
Seismic load	180kN

NOTE: Anchors to be tested in accordance with the specification

SECTION 3 3m HIGH WALL
SCALE 1:25

<p>Nelson City Council te kaunihera o whakatū</p> <p>NETWORK SERVICES DEPARTMENT</p> <p>NCC Plan No. 19-0076</p>	<p>APPROVED</p> <p>EXECUTIVE MANAGER NETWORK SERVICES</p> <p>DATE: 15/4/2013</p>
	<p>REV. A</p>

DRAWING STATUS: TENDER ISSUE

A3 SCALE 1:50
A1 SCALE 1:25

DESIGNED :	DJA	Jul. 12
DRAWN :	DWM	Jul. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-20_23.dwg	
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NOTES :

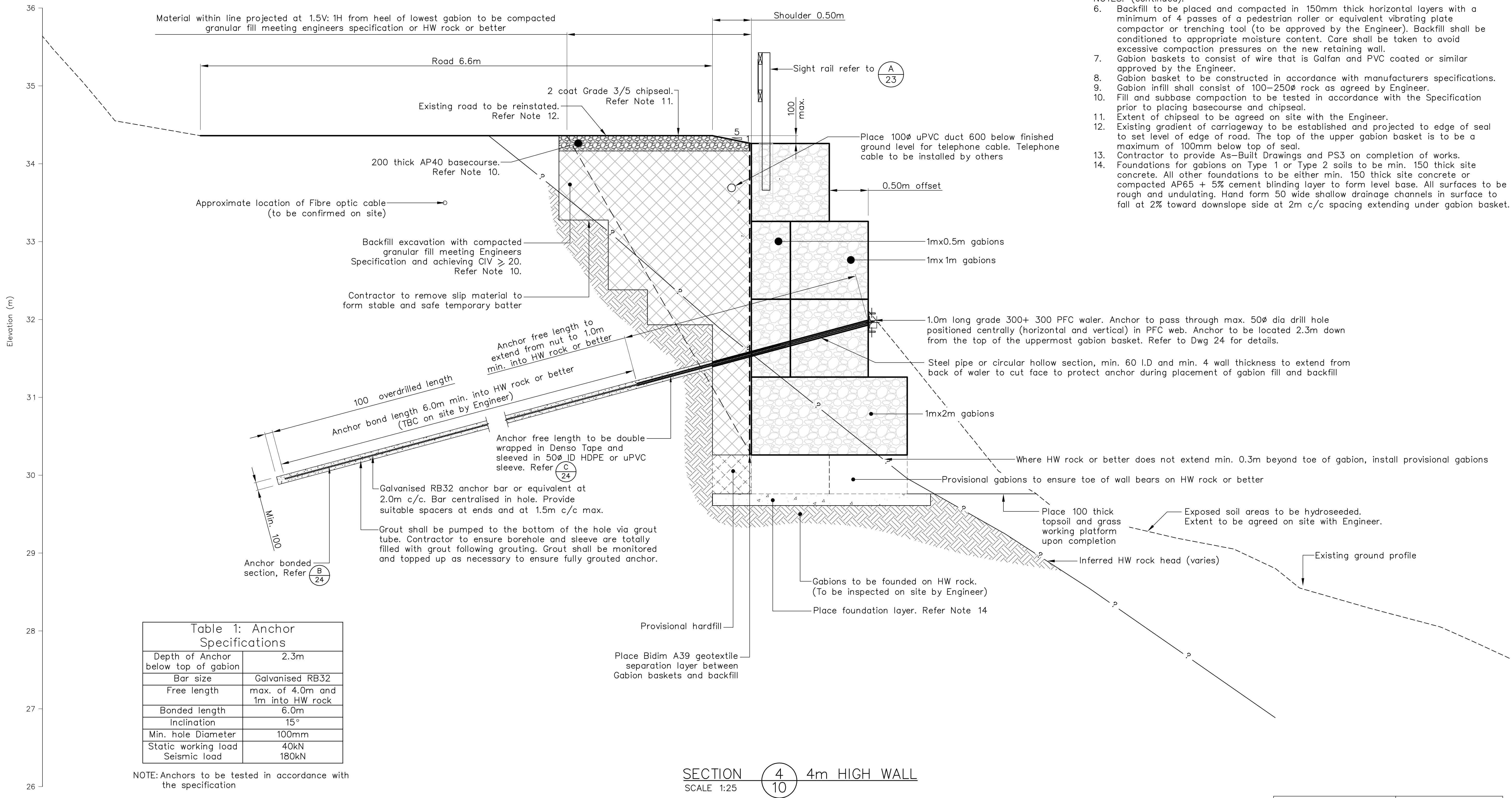
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CLIENT, PROJECT	NELSON CITY COUNCIL CABLE BAY ROAD REMEDIATION	
TITLE	GABION WALL DESIGN - SITE 22 Sections - Sheet 2 of 3	
SCALES (AT A1 SIZE)	DWG. No.	REV.
1:25	870982.1022-21	A



- NOTES: (continued):
- Backfill to be placed and compacted in 150mm thick horizontal layers with a minimum of 4 passes of a pedestrian roller or equivalent vibrating plate compactor or trenching tool (to be approved by the Engineer). Backfill shall be conditioned to appropriate moisture content. Care shall be taken to avoid excessive compaction pressures on the new retaining wall.
 - Gabion baskets to consist of wire that is Galvan and PVC coated or similar approved by the Engineer.
 - Gabion basket to be constructed in accordance with manufacturers specifications.
 - Gabion infill shall consist of 100-250# rock as agreed by Engineer.
 - Fill and subbase compaction to be tested in accordance with the Specification prior to placing basecourse and chipseal.
 - Extent of chipseal to be agreed on site with the Engineer.
 - Existing gradient of carriageway to be established and projected to edge of seal to set level of edge of road. The top of the upper gabion basket is to be a maximum of 100mm below top of seal.
 - Contractor to provide As-Built Drawings and PS3 on completion of works.
 - Foundations for gabions on Type 1 or Type 2 soils to be min. 150 thick site concrete. All other foundations to be either min. 150 thick site concrete or compacted AP65 + 5% cement blinding layer to form level base. All surfaces to be rough and undulating. Hand form 50 wide shallow drainage channels in surface to fall at 2% toward downslope side at 2m c/c spacing extending under gabion basket.

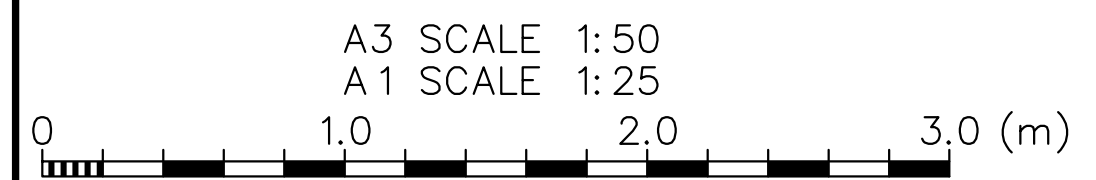
Depth of Anchor below top of gabion	2.3m
Bar size	Galvanised RB32
Free length	max. of 4.0m and 1m into HW rock
Bonded length	6.0m
Inclination	15°
Min. hole Diameter	100mm
Static working load	40kN
Seismic load	180kN

NOTE: Anchors to be tested in accordance with the specification

SECTION 4 4m HIGH WALL
SCALE 1:25

<p>Nelson City Council te kaunihera o whakatū</p> <p>NETWORK SERVICES DEPARTMENT</p>	<p>APPROVED</p> <p>EXECUTIVE MANAGER NETWORK SERVICES</p>
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DRAWING STATUS: TENDER ISSUE



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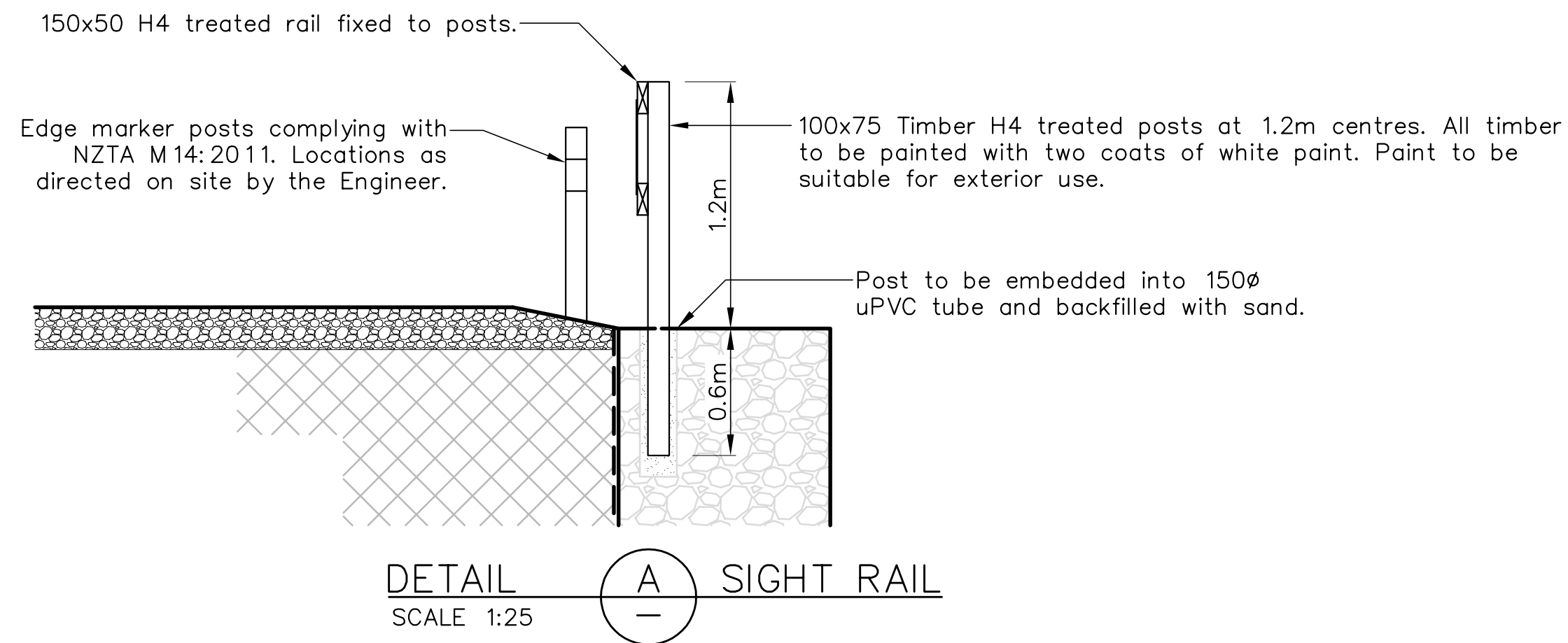
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Environmental and Engineering Consultants

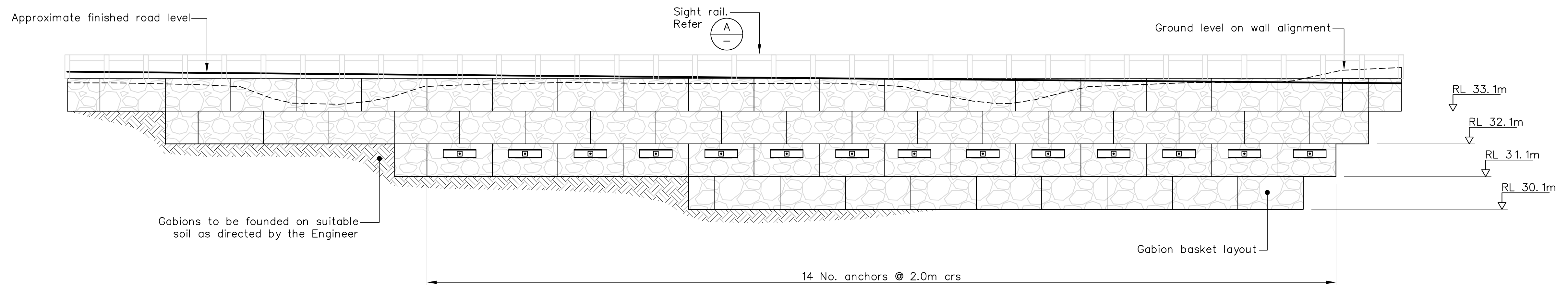
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CLIENT, PROJECT	NELSON CITY COUNCIL CABLE BAY ROAD REMEDIATION	
TITLE	GABION WALL DESIGN - SITE 22 Sections - Sheet 3 of 3	
SCALES (AT A1 SIZE)	DWG. No.	REV.
1:25	870982.1022-22	A

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- NOTES: (continued):
- Backfill to be placed and compacted in 150mm thick horizontal layers with a minimum of 4 passes of a pedestrian roller or equivalent vibrating plate compactor or trenching tool (to be approved by the Engineer). Backfill shall be conditioned to appropriate moisture content. Care shall be taken to avoid excessive compaction pressures on the new retaining wall.
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 - Extent of chipseal to be agreed on site with the Engineer.
 - Existing gradient of carriageway to be established and projected to edge of seal to set level of edge of road. The top of the upper gabion basket is to be a maximum of 100mm below top of seal.
 - Contractor to provide As-Built Drawings and PS3 on completion of works.
 - Foundations for gabions on Type 1 or Type 2 soils to be min. 150 thick site concrete. All other foundations to be either min. 150 thick site concrete or compacted AP65 + 5% cement blinding layer to form level base. All surfaces to be rough and undulating. Hand form 50 wide shallow drainage channels in surface to fall at 2% toward downslope side at 2m c/c spacing extending under gabion basket.



SITE 22 – FRONT ELEVATION
SCALE 1:75

<p>Nelson City Council te kaunihera o whakatū</p> <p>NETWORK SERVICES DEPARTMENT</p>	<p>APPROVED</p> <p>EXECUTIVE MANAGER NETWORK SERVICES</p>
	<p>DATE: 15/4/2013</p>
<p>NCC Plan No. 19-0076</p>	

DRAWING STATUS: TENDER ISSUE

A3 SCALE 1:150
A1 SCALE 1:75

DESIGNED :	DJA	Jul. 12
DRAWN :	DWM	Jul. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-20_23.dwg	
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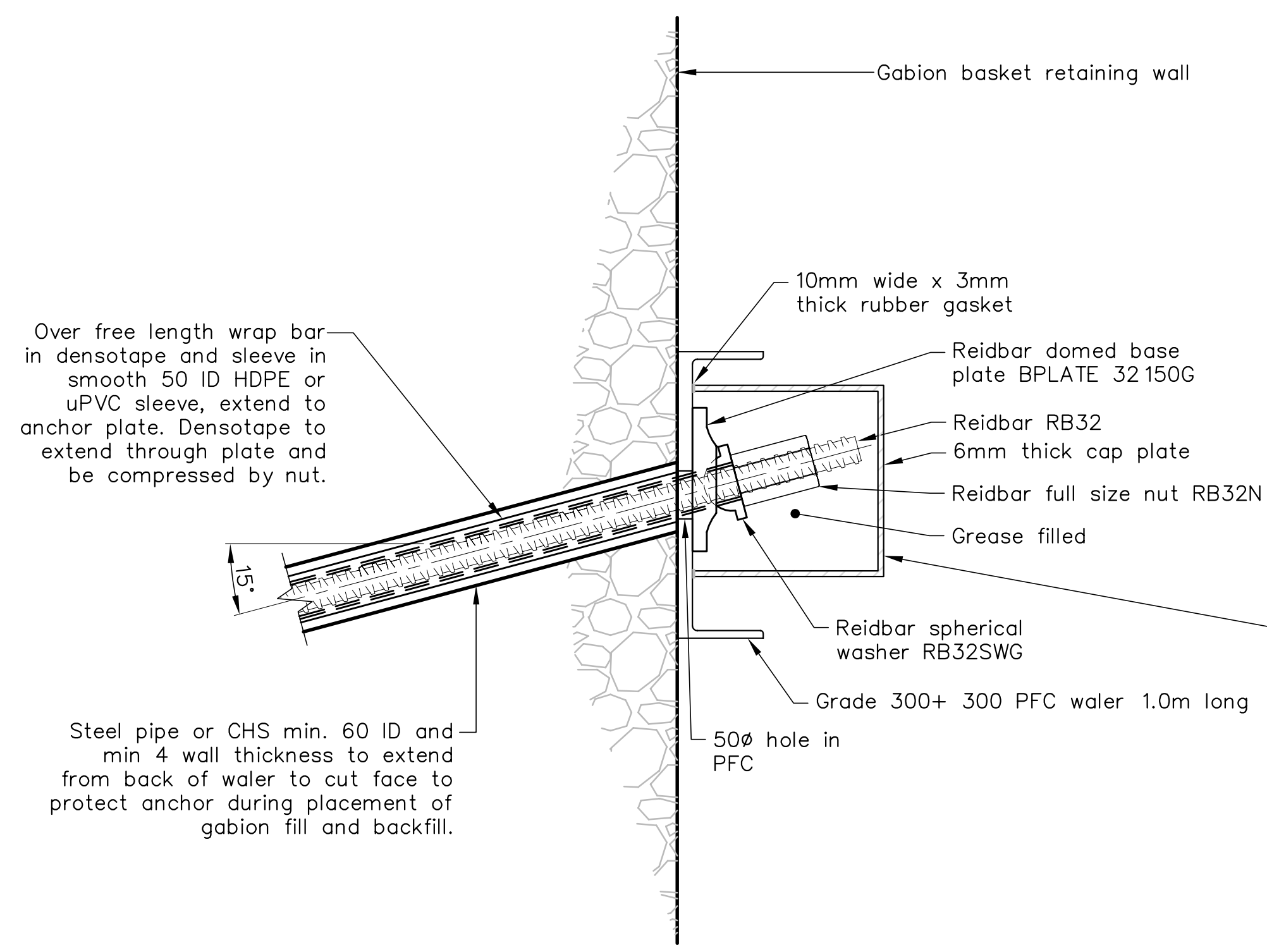
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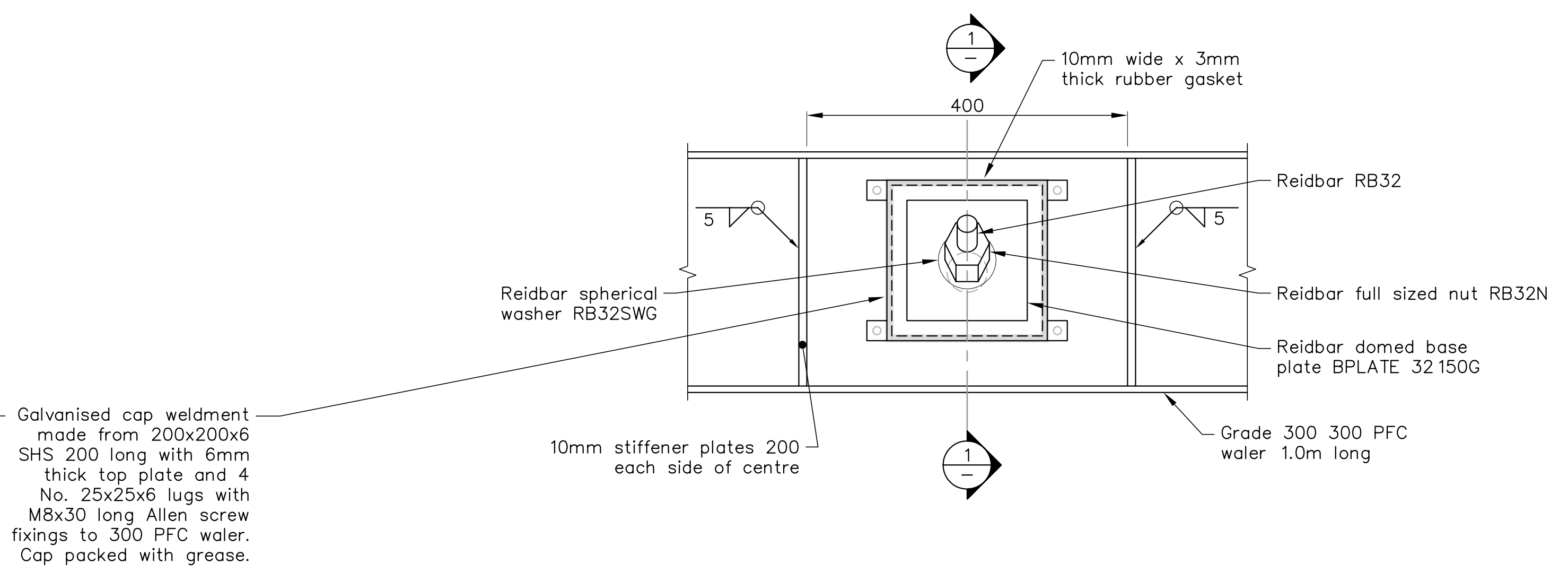
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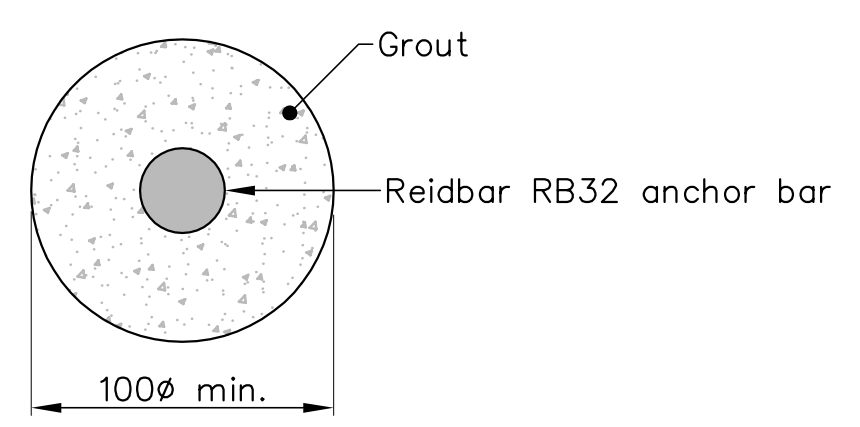
CLIENT, PROJECT	NELSON CITY COUNCIL CABLE BAY ROAD REMEDIATION	
TITLE	GABION WALL DESIGN – SITE 22	
Elevation	AS SHOWN	
SCALES (AT A1 SIZE)	DWG. No.	REV.
	870982.1022-23	A



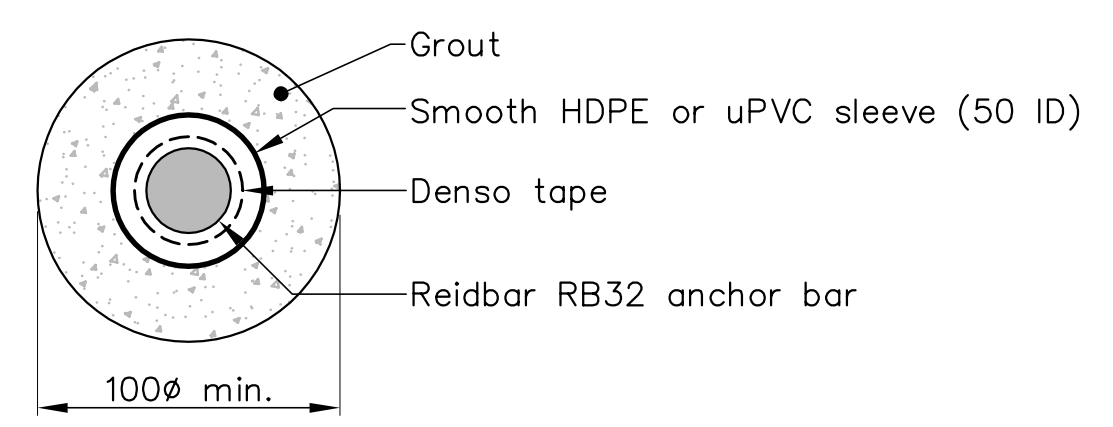
SECTION 1 ANCHOR HEAD DETAIL
SCALE 1:5



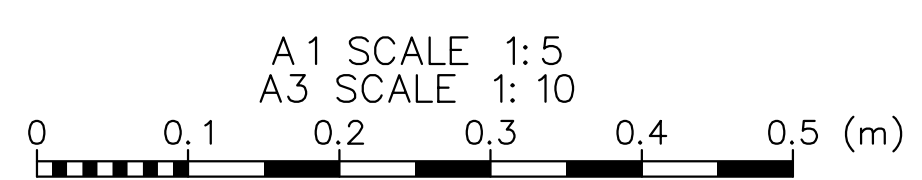
DETAIL A ANCHOR HEAD DETAIL
SCALE 1:5



DETAIL B ANCHOR BONDED LENGTH
SCALE 1:NTS



DETAIL C ANCHOR FREE LENGTH
SCALE 1:NTS



- NOTES CONTINUED:
- All steel work to be hot dip galvanised H.D.G 600 or materials sprayed with TSZ150 including drill hole surface areas.
 - All dimensions in millimetres unless stated otherwise.

NOTES :

- Nelson Circuit (2000) coordinates. Levels to NCC Datum.
- The Contractor shall confirm the location/depth of all services prior to any excavation.
- All works shall comply with the latest version of the NCC Land Development Manual and all amendments.
- Works outside the reconstruction area shall be reinstated as per NCC Land Development Manual.
- Special care shall be taken to ensure there is no damage to fences and gardens on private property. Any damage is to be repaired promptly at the Contractor's cost.
- Property boundaries, services location and culvert location supplied by DOP Ltd.

REFERENCE : LiDAR contours and aerial photos supplied by NCC.

 Nelson City Council te kaunihera o whakatū NETWORK SERVICES DEPARTMENT	APPROVED EXECUTIVE MANAGER NETWORK SERVICES
	DATE: 15/4/2013
NCC Plan No. 19-0076	

DRAWING STATUS: TENDER ISSUE

DESIGNED :	DJA	Nov. 12
DRAWN :	DWM	Nov. 12
DESIGN CHECKED :		
DRAFTING CHECKED :		
CADFILE :	\\870982.1022-24.dwg	
APPROVED :	NOT FOR CONSTRUCTION	
This drawing is not to be used for construction purposes unless signed as approved		
REVISION DESCRIPTION	BY	DATE
1 Consultation Issue	MPD	Nov. 12

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CLIENT, PROJECT	NELSON CITY COUNCIL	
TITLE	CABLE BAY ROAD REMEDIATION	
	GABION WALL DESIGN – SITE 22	
	Anchor Head Details	
SCALES (AT A1 SIZE)	DWG. No.	REV.
AS SHOWN	870982.1022-24	A