

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 8:00:04 am C:\Users\NZGD30418\OneDrive\WSP ANZ projects\AMER\NZ-WSL EM\Project Files\W-SL001\01-WSP\Civil\P3\_Leq\Sheets\Detailed Design\2014250.000.dwg COVER PAGE



WATERCARE SERVICES LTD  
QUEEN STREET WASTEWATER DIVERSION  
PART 3 MAIN WORKS AND CROSS CONNECTIONS  
ISSUE FOR TENDER

Project No: W-SL001.03  
Date: 2024-05-30

FOR TENDER  
NOT FOR CONSTRUCTION

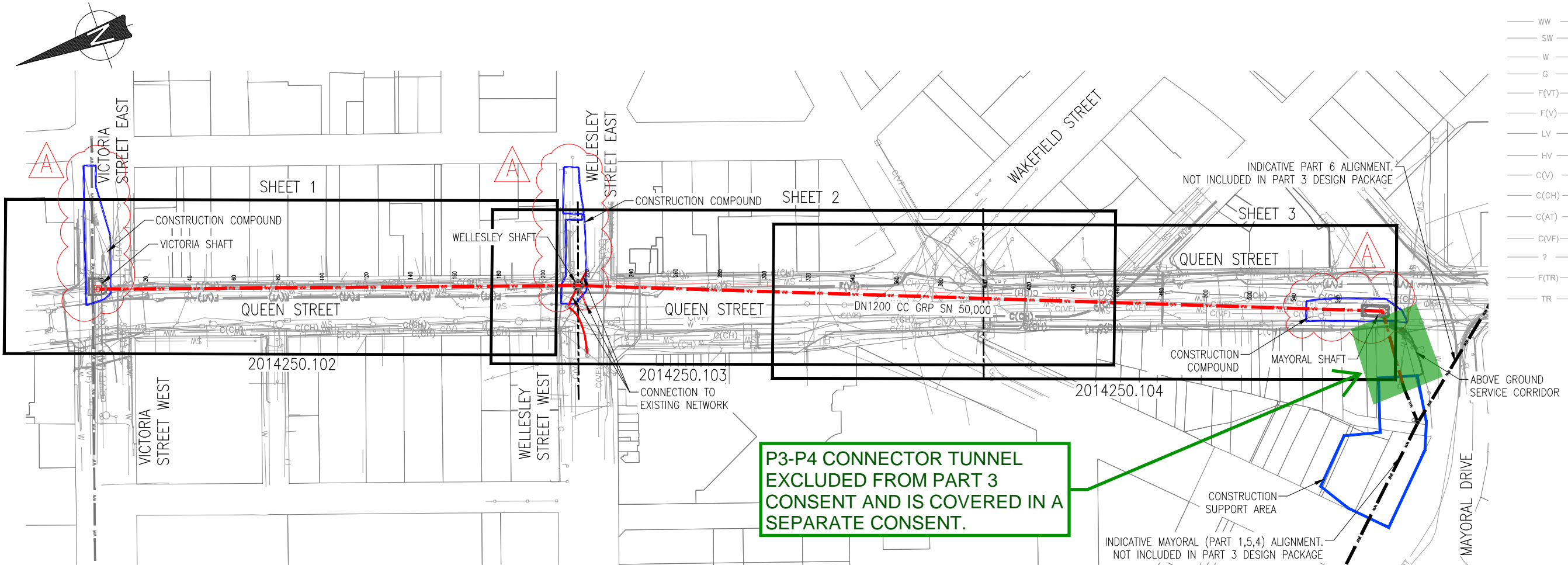
ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	G. DIAO	05-24
A	05-24	ISSUE FOR TENDER - P3 SHAFT AND P3-P4 UPDATES	N.C.	G.D.	DES. APPROVED	B. RUDSITS	05-24
-	04-24	ISSUE FOR TENDER	N.C.	G.D.	DRAWN	N. CAJEME	05-24
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	N.C.	G.D.	DWG. APPROVED	B. RUDSITS	05-24
1	12-23	DETAILED DESIGN	N.C.	G.D.	WSL DESIGN MGMT.	H. HOSFORD	05-24
					WSL PROJ. LEAD	-	-

  
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QUEEN STREET WASTEWATER DIVERSION  
PART 3 MAIN WORKS AND CROSS CONNECTIONS  
COVER PAGE



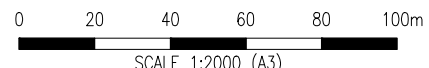
CAD FILE	2014250.000	DATE	30-05-2024
ORIGINAL SCALE	A3	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250.000	ISSUE	A




PLAN  
SCALE. 1:2000



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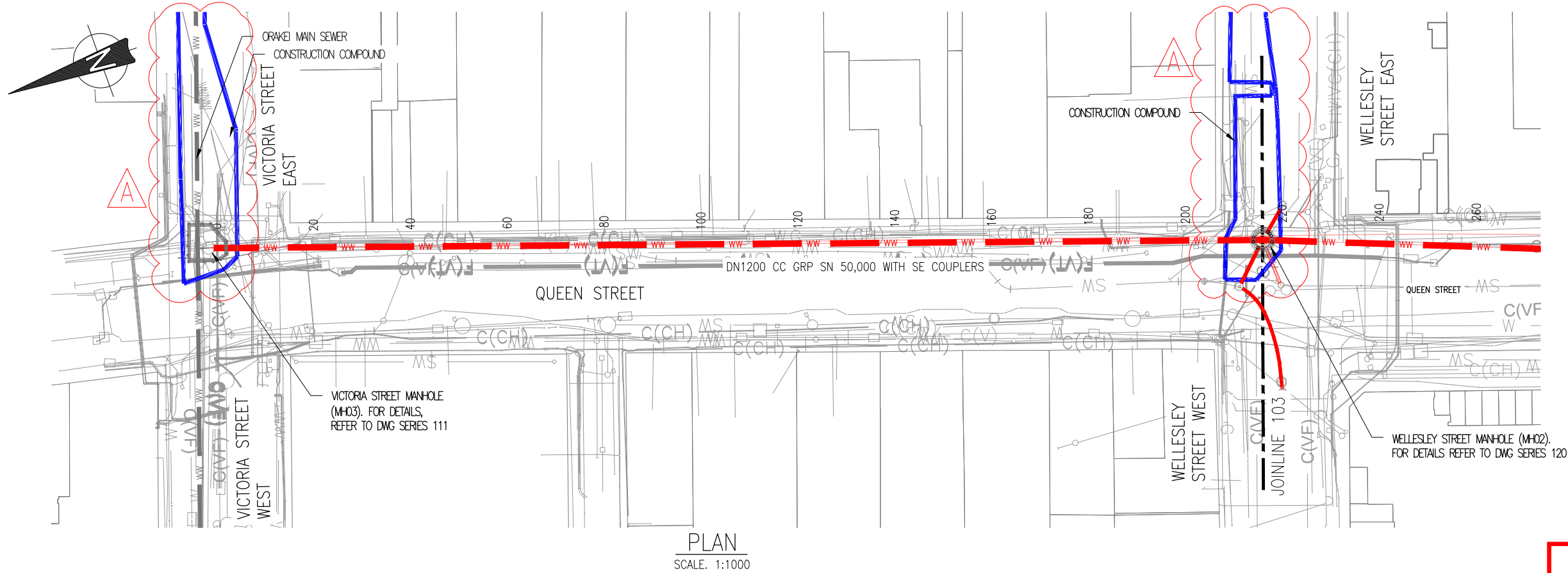


					DESIGNED	D. DIAO	05-24	 <b>Watercare</b> COPYRIGHT - This drawing, the design concept, remain the exclusive property of Watercare Services Limited and may not be used without approval. Copyright reserved.
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.	DES. APPROVED	B. RUDSITS	05-24	
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1	11-23	DETAILED DESIGN	S.H.	F.F.	WSL DESIGN MGMT.	H. HOSFORD	05-24	
ISSUE	DATE	AMENDMENT	BY	APPD.				

# QUEEN STREET WASTEWATER DIVERSION PART 3 MAIN WORKS AND CROSS CONNECTIONS ALIGNMENT OVERVIEW

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 1:200	CONTRACT No.	—
REF No.	W-SL001.03		
DWG No.	2014250.101	ISSUE	A

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 7:43:43 am C:\Users\NZGD30418\OneDrive\Projects\WSP\ANZ Projects\AMER\NZ-WSL-EM\Project Files\W-SL001\01-WP\CIV\P3\_Loc\Sheets\0021853.007-012.dwg 102

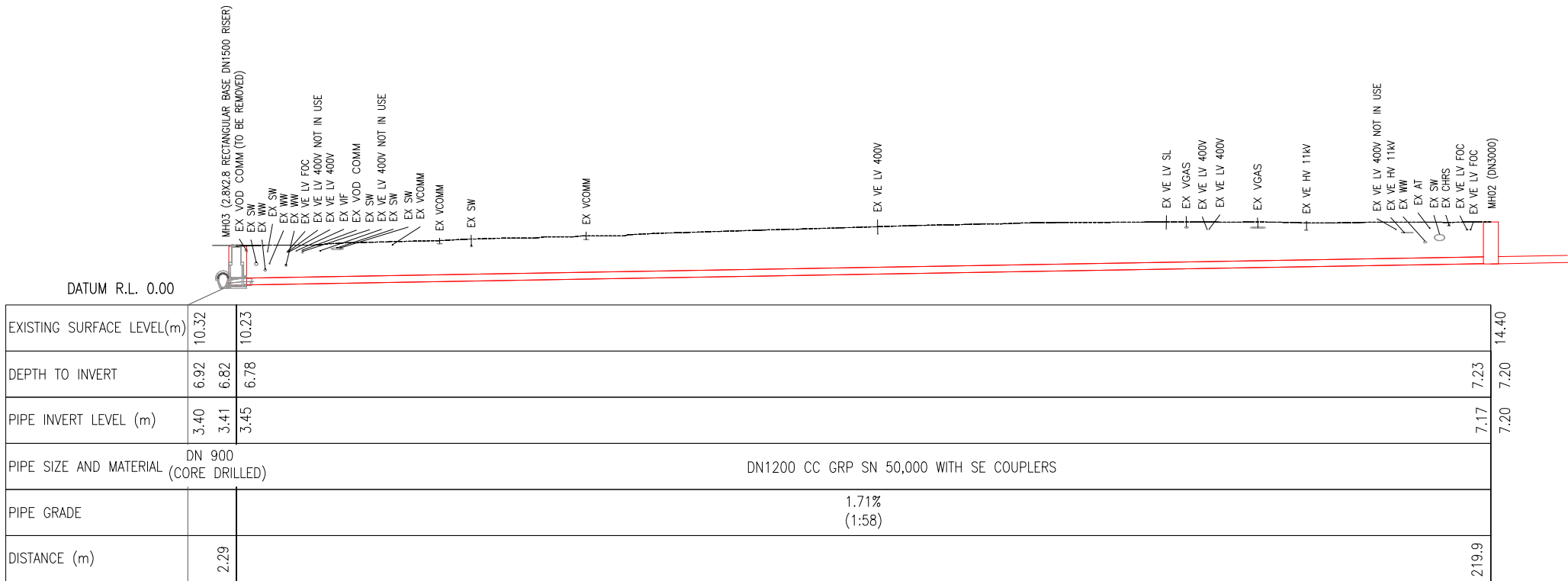


- LEGEND:
- WW WASTEWATER PIPE
  - WASTEWATER MANHOLE
  - CONSTRUCTION COMPOUND
  - SHAFT
  - PROPERTY BOUNDARY
- EXISTING SERVICES
- EX. WASTEWATER
  - EX. STORMWATER
  - EX. WATER
  - VECTOR GAS
  - VITAL FIBRE
  - VECTOR FIBRE
  - VECTOR LV
  - VECTOR HV
  - VECTOR COMMS
  - CHORUS COMMS
  - AT COMMS
  - VODAFONE COMMS
  - UNKNOWN COMMS
  - TRANSPOWER FIBRE
  - TRANSPOWER ELECTRICITY

**Auckland Council**  
In Partnership with the Local Authorities

**LUC60422975-A WAT60422976-A**  
Approved Resource Consent Plan

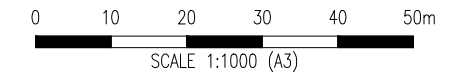
05/09/2024



LONGITUDINAL PROFILE- 0.0 m TO 219.9 m  
HORIZONTAL SCALE 1:1000  
VERTICAL SCALE 1:1000



**FOR TENDER**  
**NOT FOR CONSTRUCTION**



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1	11-23	DETAILED DESIGN	S.H.	F.F.	WSL DESIGN MGMT.	H. HOSFORD	05-24
					WSL PROJ. LEAD	-	-
						BY	DATE

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QUEEN STREET WASTEWATER DIVERSION PART 3 MAIN WORKS AND CROSS CONNECTIONS PLAN AND LONG SECTION - SHEET 1 OF 3	CAD FILE W-SL001.03 ORIGINAL SCALE A3 AS SHOWN REF No. W-SL001.03 DWG No. 2014250 .102	DATE 30-05-2024 CONTRACT No. - ISSUE A
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PLAN  
SCALE. 1:1000








DATUM R.L. 0.00		
EXISTING SURFACE LEVEL(m)	14.40	21.87
DEPTH TO INVERT	7.23	11.06
PIPE INVERT LEVEL (m)	7.20	10.75
PIPE SIZE AND MATERIAL	DN1200 CC GRP SN 50,000 WITH SE COUPLERS	
PIPE GRADE	1.95% (1:51)	
DISTANCE (m)	219.9	402.5

LONGITUDINAL PROFILE— 219.9 m TO 402.5 m

HORIZONTAL SCALE 1:1000  
VERTICAL SCALE 1:1000

LEGEND:

-  WW WASTEWATER PIPE  
 WASTEWATER MANHOLE  
 CONSTRUCTION COMPOUND  
 SHAFT  
 PROPERTY BOUNDARY

## EXISTING SERVICES

- |                   |                        |
|-------------------|------------------------|
| _____ WW _____    | EX. WASTEWATER         |
| _____ SW _____    | EX. STORMWATER         |
| _____ W _____     | EX. WATER              |
| _____ G _____     | VECTOR GAS             |
| _____ F(VT) _____ | VITAL FIBRE            |
| _____ F(V) _____  | VECTOR FIBRE           |
| _____ LV _____    | VECTOR LV              |
| _____ HV _____    | VECTOR HV              |
| _____ C(V) _____  | VECTOR COMMS           |
| _____ C(CH) _____ | CHORUS COMMS           |
| _____ C(AT) _____ | AT COMMS               |
| _____ C(VF) _____ | VODAFONE COMMS         |
| _____ ? _____     | UNKNOWN COMMS          |
| _____ F(TR) _____ | TRANSPOWER FIBRE       |
| _____ TR _____    | TRANSPOWER ELECTRICITY |



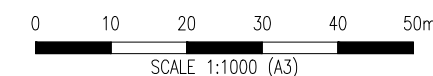
**LUC60422975-A WAT60422976-A**

Approved Resource Consent Plan

05/09/2024



**FOR TENDER**  
**NOT FOR CONSTRUCTION**



					DESIGNED	G. DIAO	05-24
					DES. APPROVED	B. RUDSITS	05-24
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1	12-23	DETAILED DESIGN	S.H.	F.F.	WSL PROJ. LEAD	–	–
ISSUE	DATE	AMENDMENT	BY	APPD.		BY	DATE

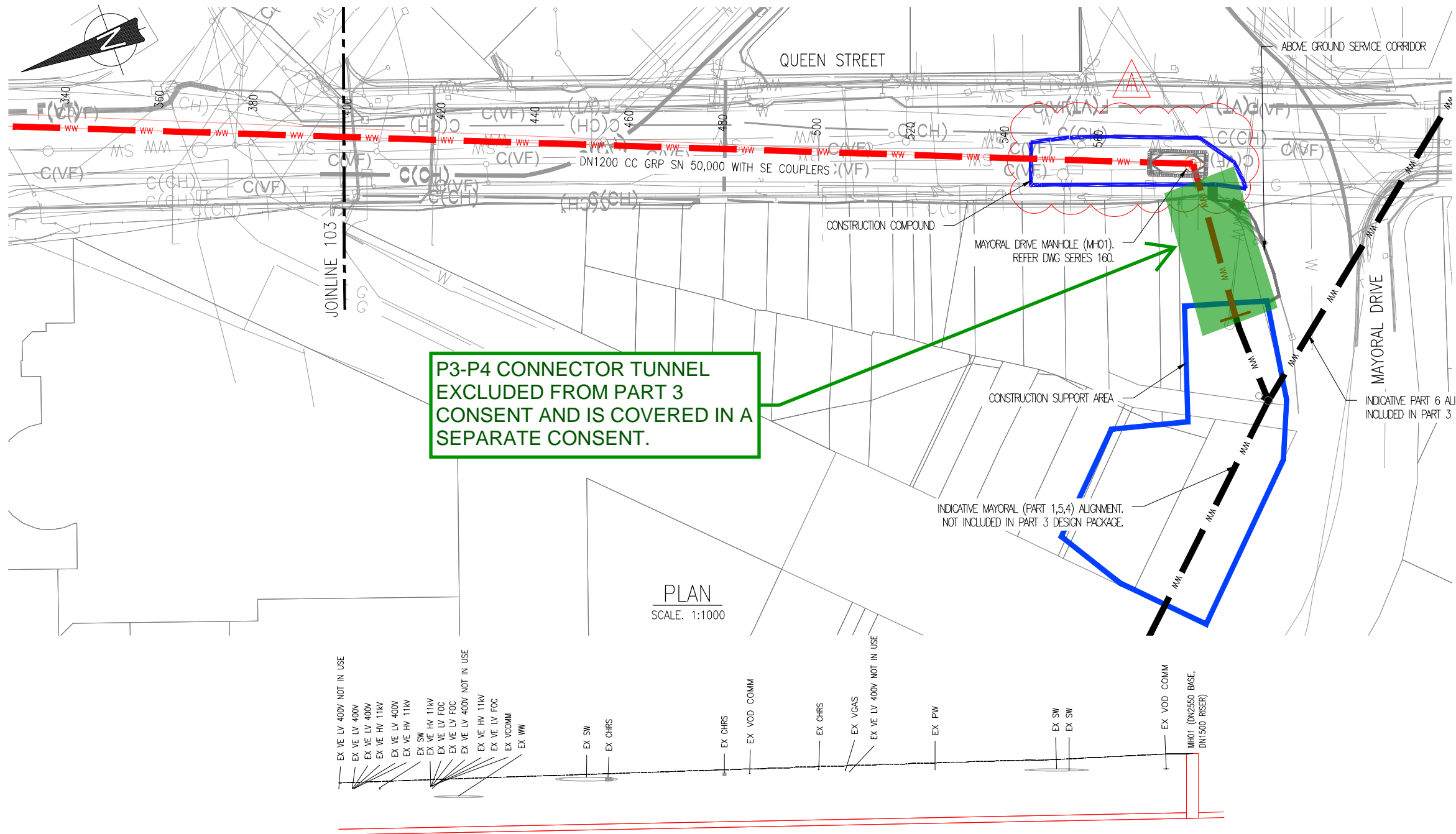


QUEEN STREET WASTEWATER DIVERSION  
PART 3 MAIN WORKS AND CROSS CONNECTIONS  
PLAN AND LONG SECTION – SHEET 2 OF 3

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250	.103	ISSUE A



Original sheet size A3 (420x297) Plot Date 2024-05-30 at 7:48:45 am C:\Users\NZGD30418\OneDrive\Projects\AMER\NZ-WSL-EM\Project\_Files\W-SL001\01\_WIP\CIV\P3\_Lea\Sheets\0021853.007-012.dwg 104




- LEGEND:**
- WW WASTEWATER PIPE
  - WASTEWATER MANHOLE
  - CONSTRUCTION COMPOUND
  - SHAFT
  - PROPERTY BOUNDARY
  - WW WASTEWATER PIPE NOT INCLUDED IN PART 3 MAIN WORKS
- EXISTING SERVICES**
- WW EX. WASTEWATER
  - SW EX. STORMWATER
  - W EX. WATER
  - G VECTOR GAS
  - F(VT) VITAL FIBRE
  - F(V) VECTOR FIBRE
  - LV VECTOR LV
  - HV VECTOR HV
  - C(V) VECTOR COMMS
  - C(CH) CHORUS COMMS
  - C(AT) AT COMMS
  - C(VF) VODAFONE COMMS
  - ? UNKNOWN COMMS
  - F(TR) TRANSPOWER FIBRE
  - TR TRANSPOWER ELECTRICITY

DATUM R.L. 0.00	
EXISTING SURFACE LEVEL(m)	21.83
DEPTH TO INVERT	11.06
PIPE INVERT LEVEL (m)	10.76
PIPE SIZE AND MATERIAL	DN1200 CC GRP SN 50,000 WITH SE COUPLERS
PIPE GRADE	1.95% (1:51)
DISTANCE (m)	402.5

LONGITUDINAL PROFILE- 402.5 m TO 584.1 m

HORIZONTAL SCALE 1:1000  
VERTICAL SCALE 1:1000



**LUC60422975-A WAT60422976-A**  
Approved Resource Consent Plan  
05/09/2024



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ISSUE	DATE	AMENDMENT	BY	APPD.
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.
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1	12-23	DETAILED DESIGN	S.H.	F.F.

DESIGNED	G. DIAO	05-24
DES. APPROVED	B. RUDSITS	05-24
DRAWN	S. HASSAN	05-24
DWG. APPROVED	B. RUDSITS	05-24
WSL DESIGN MGMT.	H. HOSFORD	05-24
WSL PROJ. LEAD	-	-
	BY	DATE



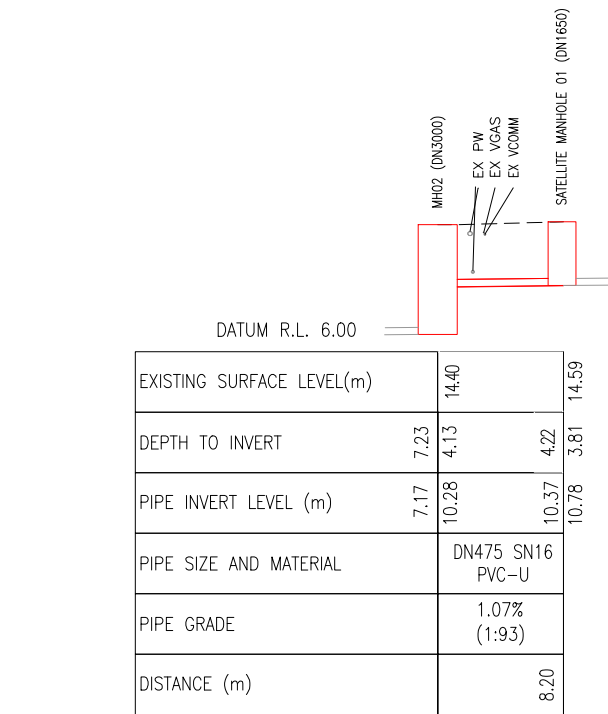
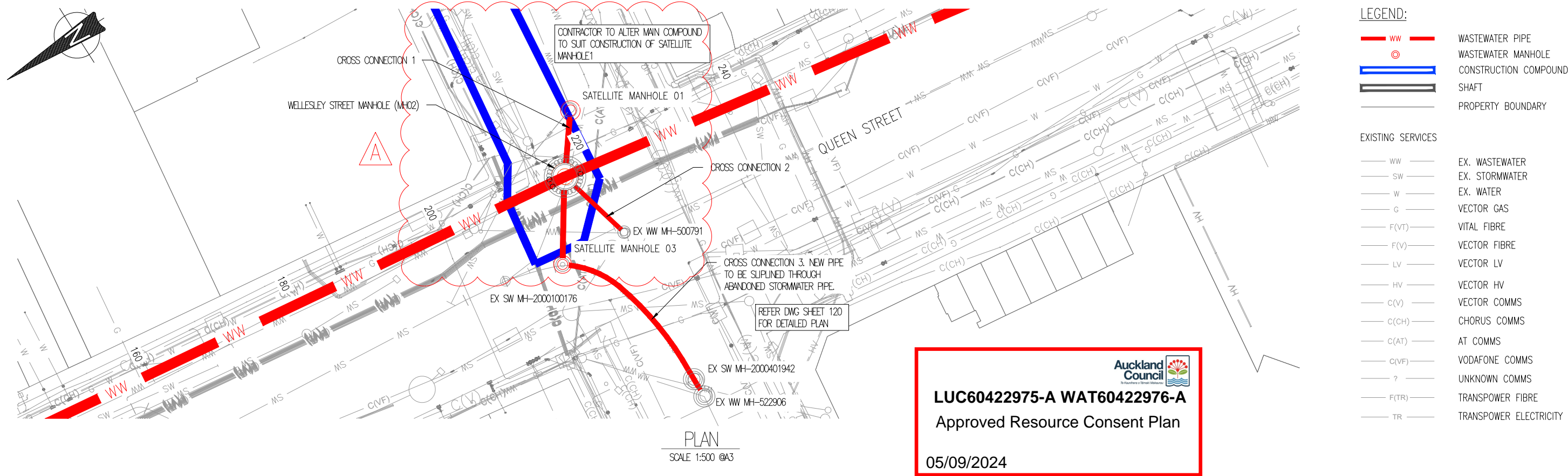
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QUEEN STREET WASTEWATER DIVERSION  
PART 3 MAIN WORKS AND CROSS CONNECTIONS  
PLAN AND LONG SECTION - SHEET 3 OF 3

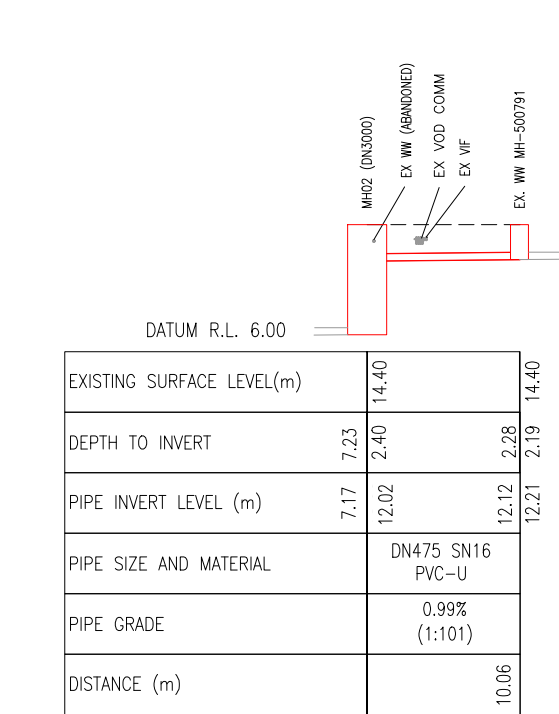
CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250 .104		

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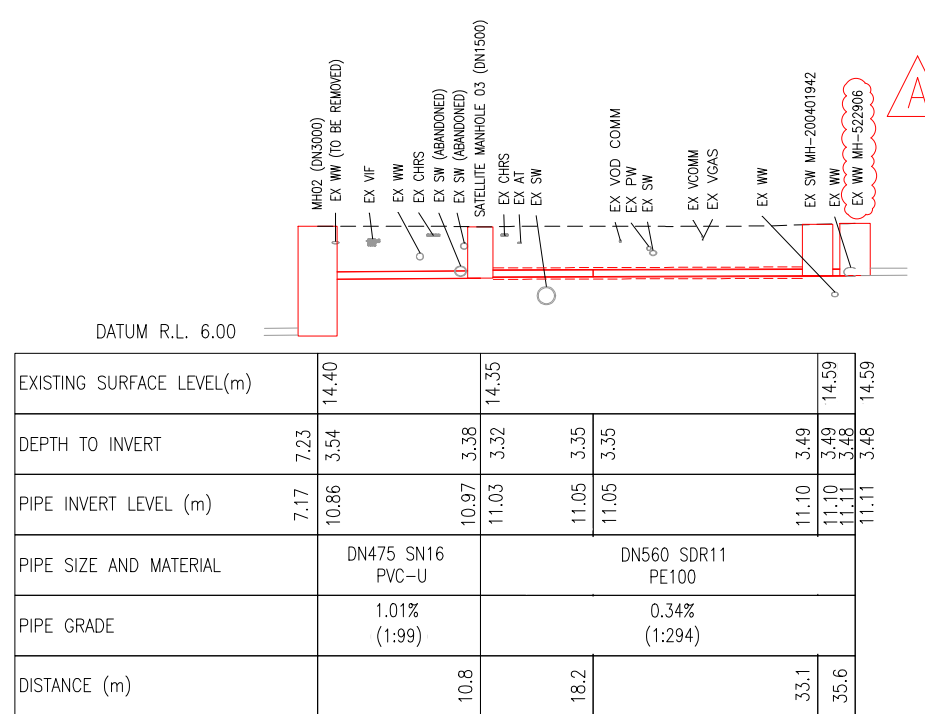
LONGITUDINAL PROFILE- CROSS CONNECTION 1

HORIZONTAL SCALE 1:500 @ A3  
VERTICAL SCALE 1:500 @ A3



LONGITUDINAL PROFILE- CROSS CONNECTION 2

HORIZONTAL SCALE 1:500 @ A3  
VERTICAL SCALE 1:500 @ A3

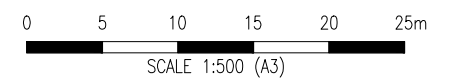


LONGITUDINAL PROFILE- CROSS CONNECTION 3

HORIZONTAL SCALE 1:500 @ A3  
VERTICAL SCALE 1:500 @ A3



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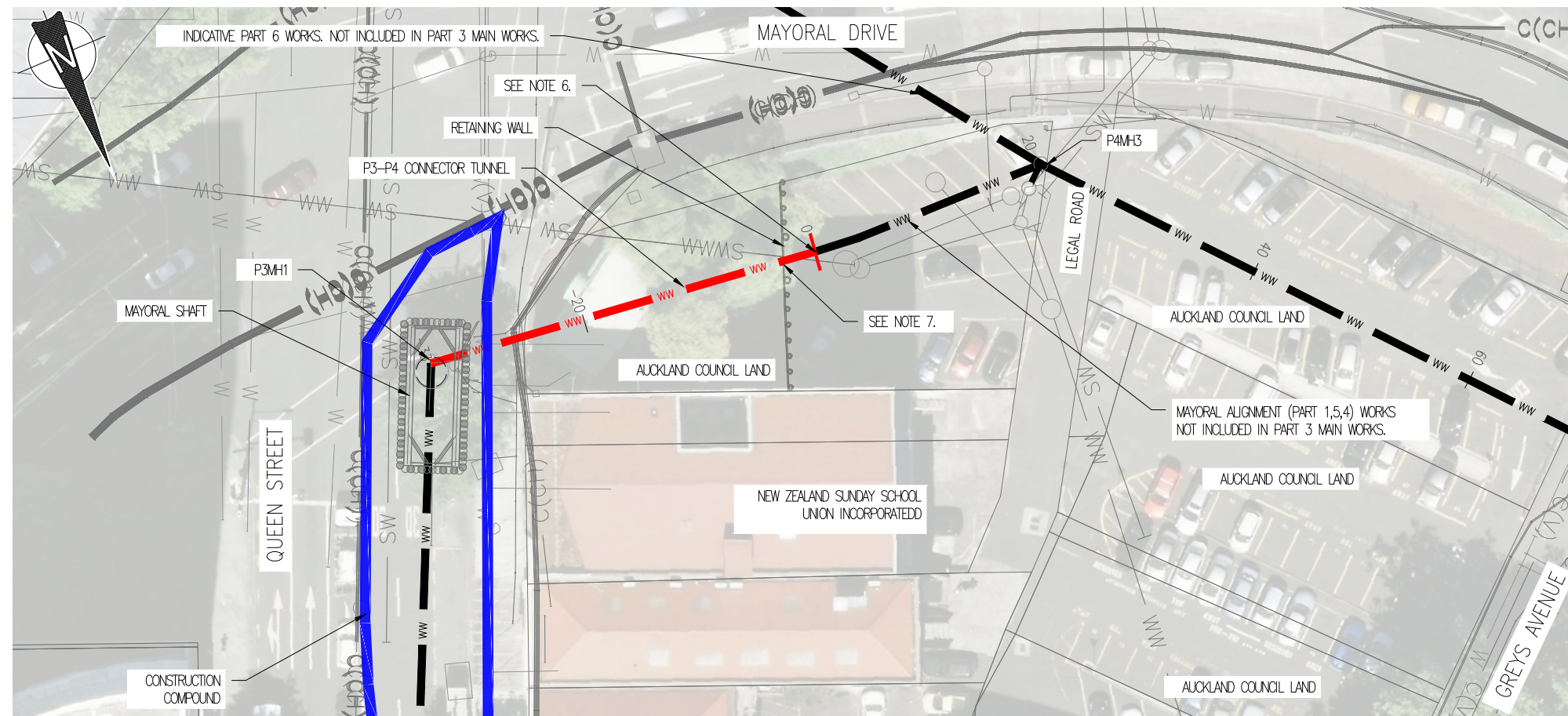


				DESIGNED	G. DIAO	05-24			
				DES. APPROVED	B. RUDSITS	05-24			
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.	DRAWN	S. HASSAN	05-24		
-	04-24	ISSUE FOR TENDER	S.H.	G.D.	DWG. APPROVED	B. RUDSITS	05-24		
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.	WSL DESIGN MGMT.	H. HOSFORD	05-24		
1	11-23	DETAILED DESIGN	S.H.	F.F.	WSL PROJ. LEAD	-	-		
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE			

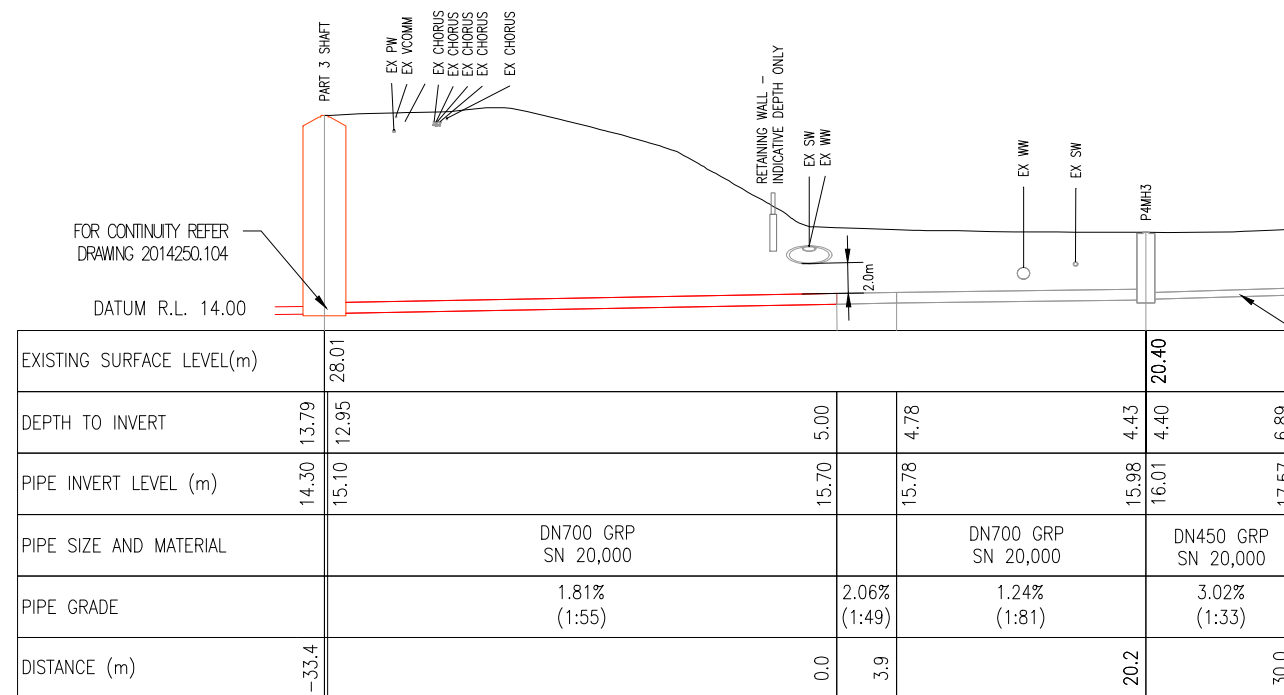


QUEEN STREET WASTEWATER DIVERSION	CAD FILE	W-SL001.03	DATE	30-05-2024
PROPOSED PART 3 MAIN WORKS AND CROSS CONNECTIONS	ORIGINAL SCALE	A3	CONTRACT No.	-
PLAN AND LONG SECTION - CROSS CONNECTIONS	REF No.	W-SL001.03		
	DWG No.	2014250.105	ISSUE	A





PLAN  
SCALE: 1:500



LONGITUDINAL PROFILE -33.4 m TO 30.0 m  
HORIZONTAL SCALE 1:500 @ A3  
VERTICAL SCALE 1:500 @ A3

**P3-P4 CONNECTOR TUNNEL  
EXCLUDED FROM PART 3  
CONSENT AND IS COVERED IN A  
SEPARATE CONSENT.**

- LEGEND:
- WW WASTEWATER PIPE
  - WASTEWATER MANHOLE
  - CONSTRUCTION COMPOUND
  - SHAFT
  - WW WASTEWATER PIPE NOT INCLUDED IN P3-P4 CONNECTOR TUNNEL
- EXISTING SERVICES
- WW EX. WASTEWATER
  - SW EX. STORMWATER
  - W EX. WATER
  - G VECTOR GAS
  - F(VT) VITAL FIBRE
  - F(V) VECTOR FIBRE
  - LV VECTOR LV
  - HV VECTOR HV
  - C(V) VECTOR COMMS
  - C(CH) CHORUS COMMS
  - C(AT) AT COMMS
  - C(VF) VODAFONE COMMS
  - ? UNKNOWN COMMS
  - F(TR) TRANSPOWER FIBRE
  - TR TRANSPOWER ELECTRICITY

- NOTES:
- REFER TO TECHNICAL SPECIFICATION WSL001-01-SP-WA-0007 FOR TRENCHLESS PIPE INSTALLATION SPECIFICATIONS
  - CONSTRUCTION SUPPORT AREA TO BE LOCATED WITHIN CAR PARK - REFER TO CONSTRUCTION SUPPORT AREA DRAWING.
  - PIPE STIFFNESS CLASS STATED IS FOR PERMANENT LOAD CASES. CONTRACTOR TO CONFIRM PIPE STIFFNESS IS SUITABLE FOR CONSTRUCTION/INSTALLATION LOADS.
  - TEMPORARY WORK DESIGN FOR CONSTRUCTION AND INSTALLATION IS RESPONSIBILITY OF THE CONSTRUCTOR INCLUDING RELEVANT ASSOCIATED PERMITS, APPROVALS AND CONSENT NOT ALREADY PROVIDED BY THE PRINCIPAL.
  - IF CONTRACTOR PROPOSES TO USE ALTERNATIVE PIPE MATERIAL APPROVAL REQUIRED BY WSL AND ENGINEER.
  - UPON COMPLETION OF PART 3 CONSTRUCTION, THIS PIPE END SHALL BE SUITABLY CAPPED UNTIL SUCH TIME CONNECTION OF MAYORAL ALIGNMENT IS REQUIRED.
  - ENGINEER TO PROVIDE RETAINING WALL CONSTRUCTION DRAWING AT TENDERERS REQUEST.

**Auckland Council**  
LUC60422975-A WAT60422976-A  
Approved Resource Consent Plan  
05/09/2024

**before dig**  
**ISSUE FOR TENDER**  
**NOT FOR CONSTRUCTION**

0 5 10 15 20 25  
SCALE 1:500 (A3)

				DESIGNED	C. MILES	05-24	
				DES. APPROVED	B. RUDSITS	05-24	
				DRAWN	S. HASSAN	05-24	
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 LINK UPDATE	S.H.	DWG. APPROVED	B. RUDSITS	05-24	
-	04-24	ISSUE FOR TENDER	S.H.	WSL DESIGN MGMT.	H. HOSFORD	05-24	
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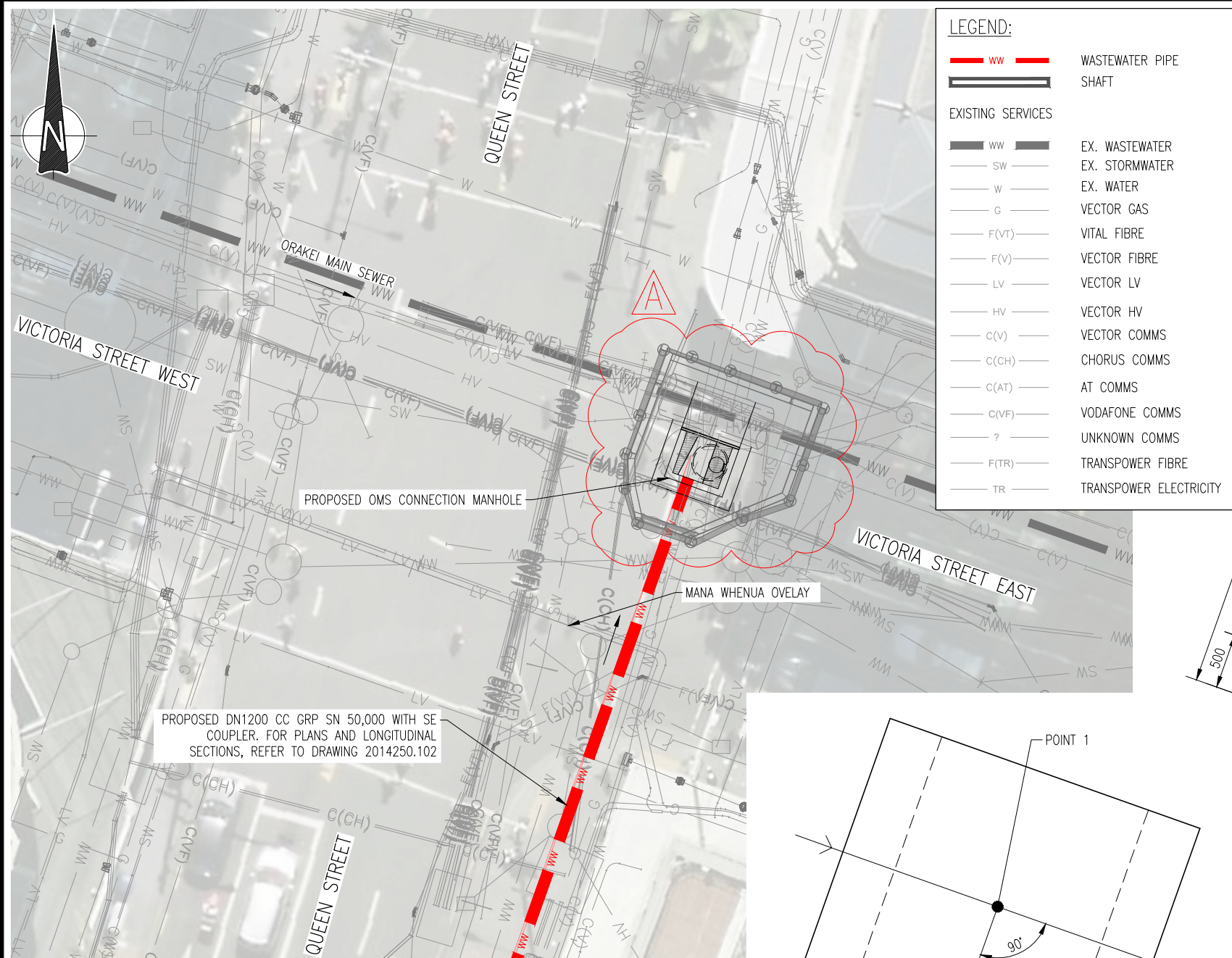
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QUEEN STREET WASTEWATER DIVERSION  
PROPOSED PART 3 MAIN WORKS AND CROSS CONNECTION  
PLAN AND LONG SECTION - P3-P4 CONNECTOR TUNNEL

CAD FILE	R0021853.015	DATE	30-05-2024
ORIGINAL SCALE	A3 1:500	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250.106	ISSUE	A



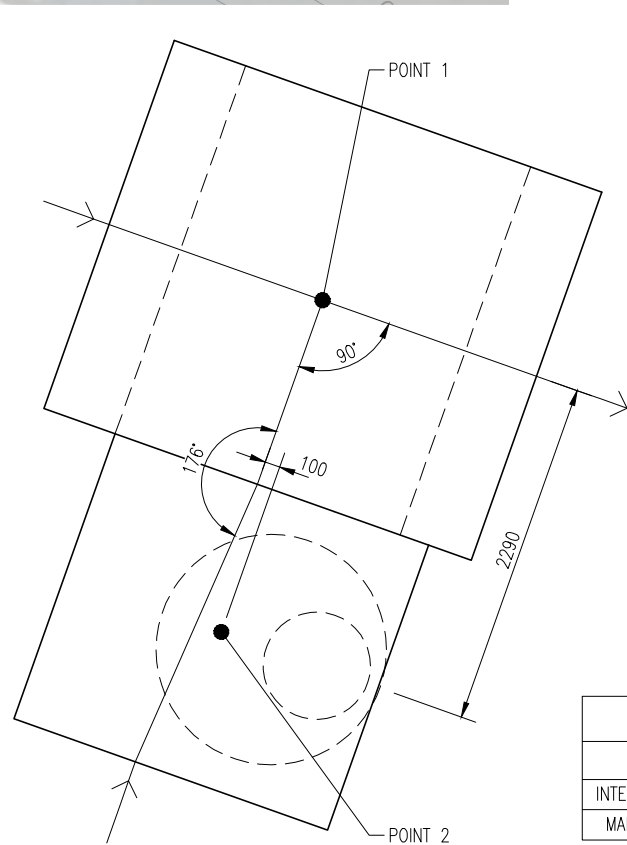
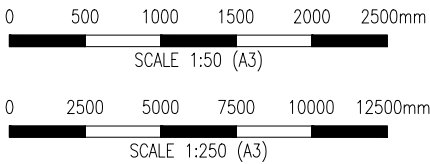
Original sheet size A3 (420x297) Plot Date 2024-05-30 at 9:04:22 am C:\Users\NZ030418\Documents\WSP ANZ projects (AMER)\NZ-WSL EM Project Files\W-SL001\01-WPL\CV P3\_Leg\Sheets\Detailed Design\2014250.111\_112.dwg OMS CONNECTION SHAFT 3 - PLAN AND SECTION



SITE PLAN  
SCALE 1:250

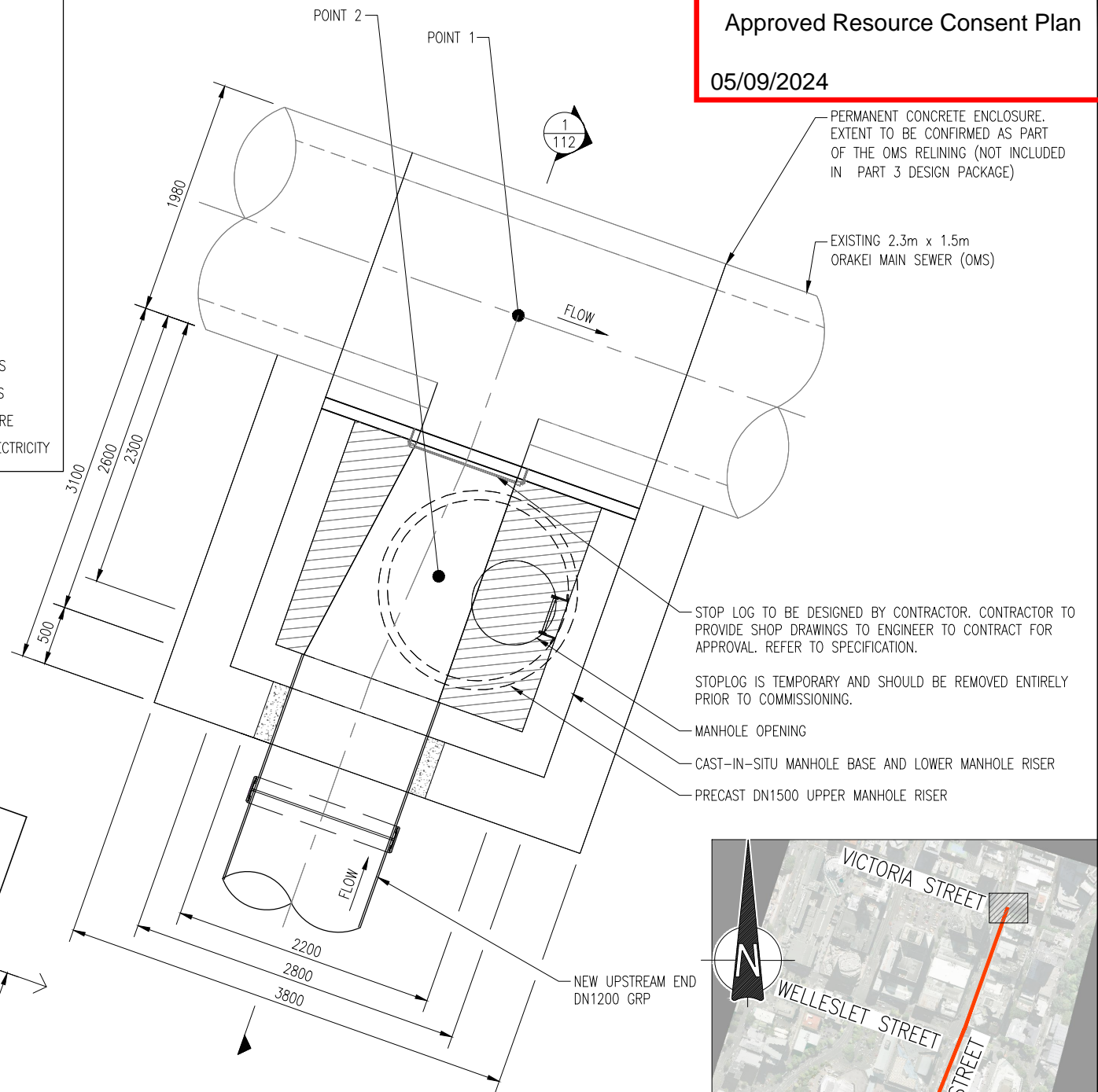
NOTES:

- UTILITIES DIVERSION CAN BE FOUND IN THE FOLLOWING DRAWING SETS:
  - WELLESLEY ST AND MAYORAL DR SHAFTS - R0021853.200 & 300 SERIES
  - VICTORIA ST SHAFT - R0021853.400 SERIES

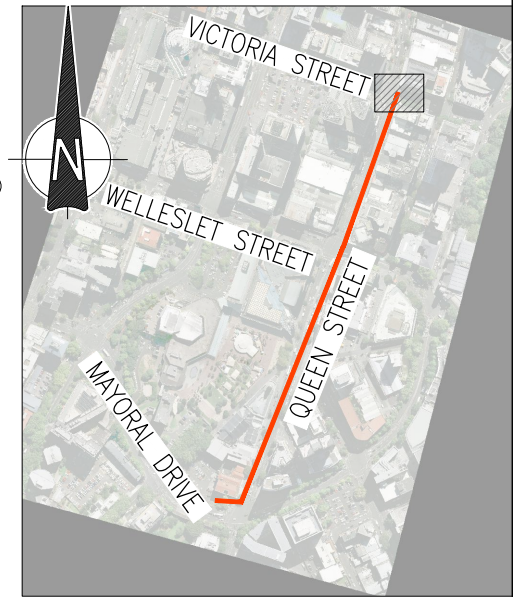


PROPOSED SCHEMATIC PLAN  
SCALE 1:50

SETOUT POINT		
	EASTING	NORTHING
INTERSECTION POINT (POINT 1)	400114.7342	803406.5225
MANHOLE CENTRE (POINT 2)	400114.0645	803404.3297



PLAN  
SCALE 1:50



LOCATION PLAN  
SCALE 1:10,000

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DWG. APPROVED	P. HARFORD	05-24
WSL DESIGN MGMT.	H. HOSFORD	05-24
WSL PROJ. LEAD	-	-

BY	DATE
BY	DATE



QUEEN STREET WASTEWATER DIVERSION  
OMS CONNECTION SHAFT 3  
PLAN AND SECTION DETAIL - SHEET 1 OF 2



CAD FILE	2014250.111_112	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250.111		





NOTES:

Auckland Council

The Auckland Council Logo

LUC60422975-A WAT60422976-A

Approved Resource Consent Plan

05/09/2024

K	Amended layout of buildings and fence for Q Easement	PL	DW	26/06/2024
J	Amended fence line to accommodate Basement Threat	IW	DW	10/06/2024
I	Added Accessibility Delineated Route	PL	DW	21/03/2024
H	Rotated Turn, Services & added battery storage	DW	DW	22/02/2024
G	Revised Layout to provide access to Myers	DW	DW	09/02/2024
REVISION			DRAWN	DATE

COORDINATE DATUM

GEODETIC 2000 - NZTM

ORIGIN OF COORDINATES

LEVEL DATUM

MEAN SEA LEVEL AUCKLAND 1946

ORIGIN OF LEVELS

Stated Height -

Fulton Hogan

FULTON HOGAN LTD

47 Airdrie Road

RANUI

AUCKLAND

PO BOX 21124

HENDERSON 0612

Queen Street Sewer Diversion

Site Compound & Welfare

Layout

FH

SHEET 1

SCALE (A1) -

SCALE (A3) -

DATE

W

FILE PATH

\\NZAKLORBPFCFP11\Wakeland\5105 Queen Street Wastewater Diversion\001 - PCSA\004 Drawings\CSA Greys Ave Carpark

DRAWING NUMBER

QSSD\_FH\_001

REVISION

K