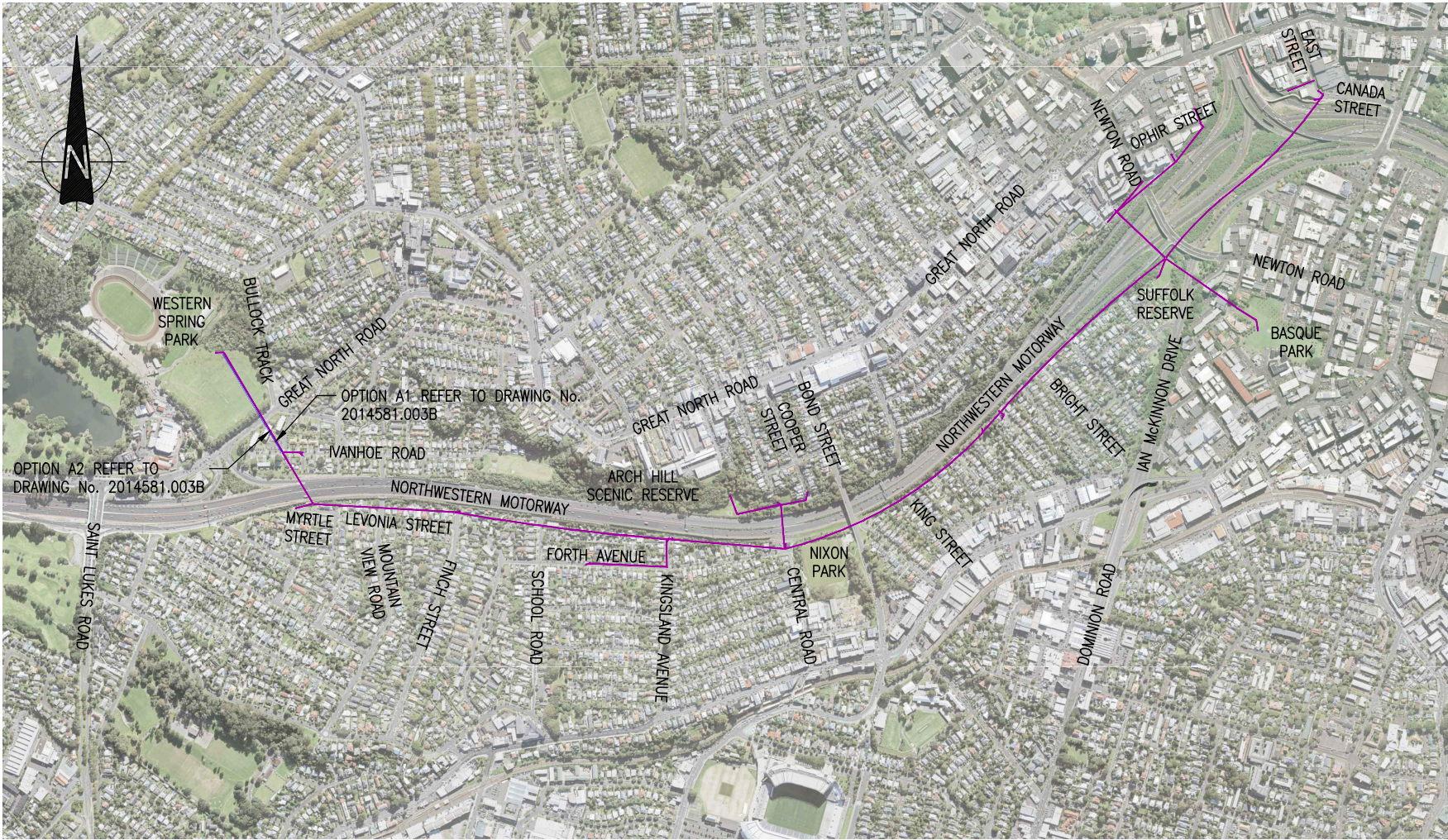


MOTIONS COLLECTOR SEWER DRAWINGS FOR RESOURCE CONSENT

DRAWING LIST	
DRAWING No.	DRAWING TITLE
2014581.190	MOTIONS COLLECTOR SEWER – CIVIL – LOCALITY PLAN AND DRAWING INDEX (DN2400 PIPE JACKING OPTION)
2014581.100	MOTIONS COLLECTOR SEWER – CIVIL – OVERALL PLAN (DN2400 PIPE JACKING OPTION)
2014581.101	MOTIONS COLLECTOR SEWER – CIVIL – OVERALL LONG SECTION (DN2400 PIPE JACKING OPTION A1 + B1) – SHEET 1
2014581.102	MOTIONS COLLECTOR SEWER – CIVIL – OVERALL LONG SECTION (DN2400 PIPE JACKING OPTION A2 + B2) – SHEET 2
2014581.103	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION A1) – SHEET 1
2014581.104	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION A2) – SHEET 2
2014581.105	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION A1) – SHEET 3
2014581.106	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION A2) – SHEET 4
2014581.107	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION) – SHEET 5
2014581.108	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION) – SHEET 6
2014581.109	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION) – SHEET 7
2014581.110	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION B1 & B2) – SHEET 8
2014581.112	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING) – SHEET 10
2014581.114	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION B1 & B2) – SHEET 12
2014581.116	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN3200 PIPE JACKING) – SHEET 14
2014581.118	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION B1 & B2) – SHEET 16
2014581.120	MOTIONS COLLECTOR SEWER – CIVIL – PLAN (DN2400 PIPE JACKING OPTION B1 & B2) – SHEET 18
2014581.122	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION – SHEET 1
2014581.123	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION – SHEET 2
2014581.124	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B1) – SHEET 3
2014581.125	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B2) – SHEET 4
2014581.126	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B1) – SHEET 5
2014581.127	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B2) – SHEET 6
2014581.128	MOTIONS COLLECTOR SEWER – CIVIL – BRANCH PLAN AND LONG SECTION – SHEET 7
2014581.129	MOTIONS COLLECTOR SEWER – CIVIL – SH–CRL CONNECTION – PLAN AND LONG SECTION
2014581.130	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH01 B1
2014581.131	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH01 B2
2014581.132	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH02 B1
2014581.133	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH02 B2
2014581.134	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH03 B1
2014581.135	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH03 B2
2014581.136	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH04
2014581.137	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH05

2014581.138	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH06
2014581.139	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH07 SH07a
2014581.140	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH09 SH10
2014581.141	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH11
2014581.142	MOTIONS COLLECTOR SEWER – LOCAL NETWORK CONNECTIONS – PLAN AND LONG SECTION – SH13 SH14 SH15



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					DES. APPROVED				ORIGINAL SCALE A3 N.T.S.	CONTRACT No. –
					DRAWN	C.LACAMBRA	07-25		REF No. –	
					DWG. APPROVED				DWG No. 2014581.190	ISSUE 2
2	29.07.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.	J.STOKES	07-25			
1	16.05.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES	07-25			
ISSUE	DATE	AMENDMENT	BY	APPD.			DATE			

MOTIONS COLLECTOR SEWER
CIVIL
LOCALITY PLAN AND DRAWING INDEX (DN2400 PIPE JACKING OPTION)



ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DRAWN	DATE
4	25.07.25	ISSUE FOR INFORMATION	JF	MC	DES. APPROVED	C.LACAMBRA	07-25
3	16.05.25	ISSUE FOR INFORMATION	JF	MC	DRAWN	C.LACAMBRA	07-25
2	14.05.25	ISSUE FOR INFORMATION	JF	MC	DWG. APPROVED	C.LACAMBRA	07-25
1	25.04.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.	J.STOKES	07-25
			JF	MC	WSL PROJ. LEAD	J.STOKES	07-25

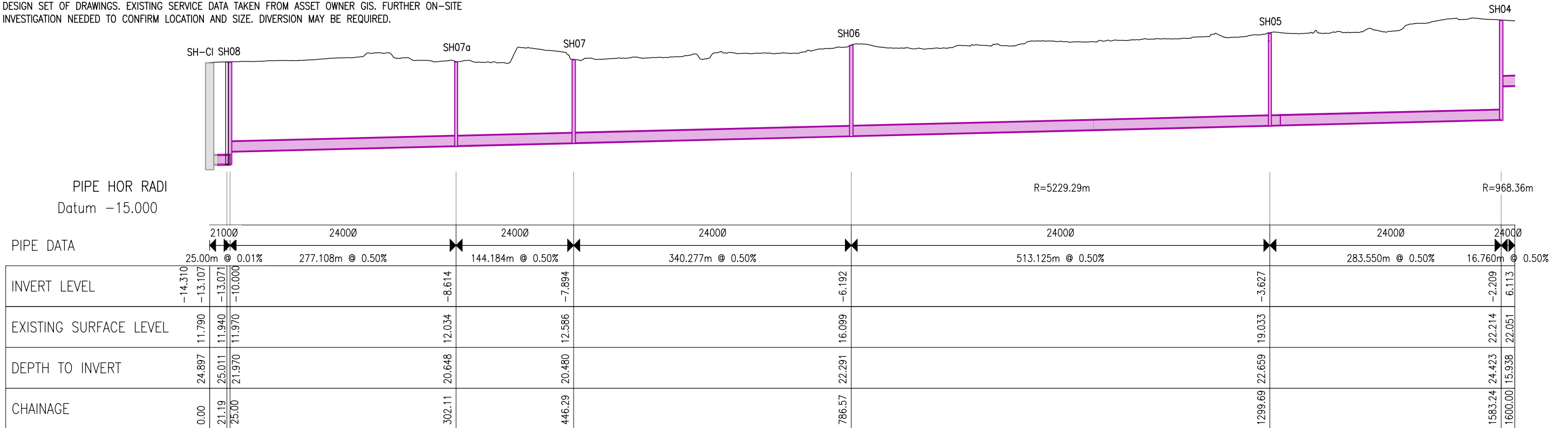

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MOTIONS COLLECTOR SEWER
CIVIL
OVERALL PLAN (DN2400 PIPE JACKING OPTION)

CAD FILE	2014581.100	DATE	25-07-2025
ORIGINAL SCALE	A3 1:7500	CONTRACT No.	-
REF No.	-		
DWG No.	2014581.100	ISSUE	4

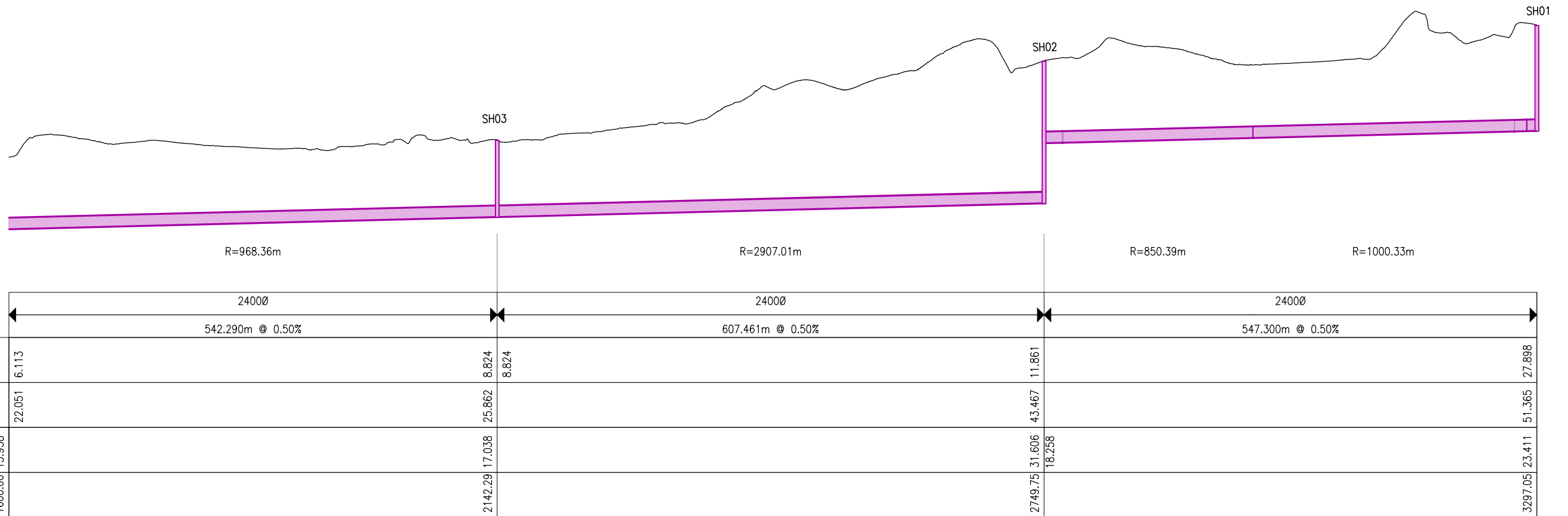
NOTES:

1. THE EXISTING PIPELINES ARE NOT PRESENTED IN THIS DRAWING FOR CLARITY. DETAILS REFER TO CONCEPT DESIGN SET OF DRAWINGS. EXISTING SERVICE DATA TAKEN FROM ASSET OWNER GIS. FURTHER ON-SITE INVESTIGATION NEEDED TO CONFIRM LOCATION AND SIZE. DIVERSION MAY BE REQUIRED.



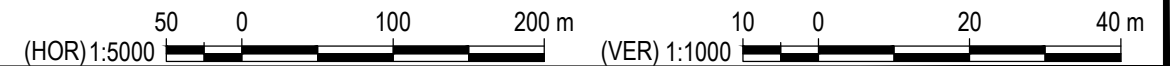
LONG SECTION (OPTION A1 + B1)

SCALES: HORIZONTAL 1:5000 VERTICAL 1:1000



LONG SECTION (OPTION A1 + B1)

SCALES: HORIZONTAL 1:5000 VERTICAL 1:1000

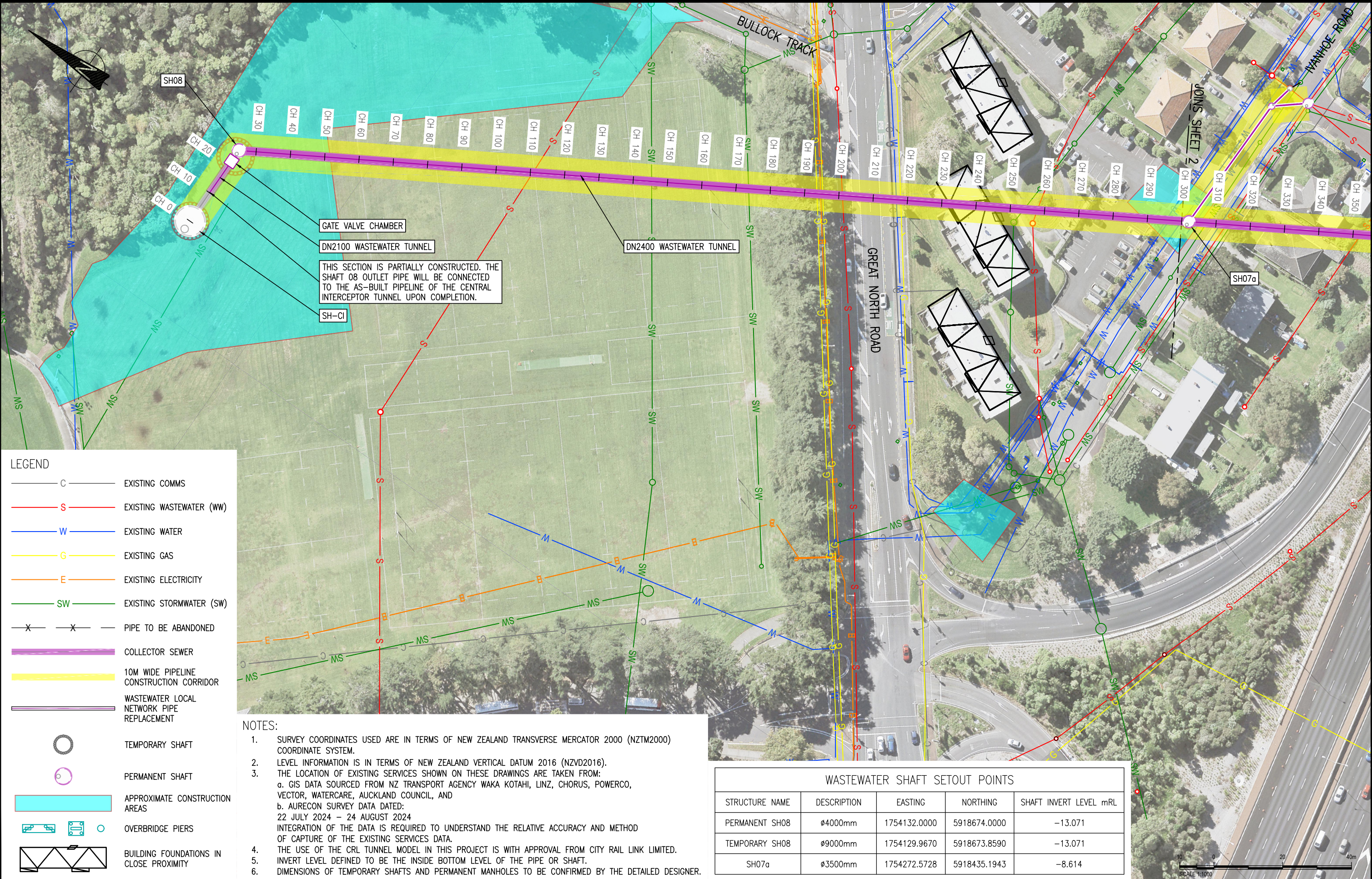


					DESIGNED		 Watercare COPYRIGHT - This drawing, the design concept, remain the exclusive property of Watercare Services Limited and may not be used without approval. Copyright reserved.	MOTIONS COLLECTOR SEWER CIVIL OVERALL LONG SECTIONS (DN2400 PIPE JACKING OPTION A1)	CAD FILE 2014581.101	DATE 25-07-2025	
4	25.07.25	ISSUE FOR INFORMATION	JF	MC	DRAWN	C.LACAMBRA			07-25	ORIGINAL SCALE A3 AS SHOWN	CONTRACT No. -
3	16.05.25	ISSUE FOR INFORMATION	JF	MC	DWG. APPROVED					REF No. -	
2	14.05.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.	J.STOKES			07-25	DWG No. 2014581.101	
1	25.04.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES			07-25	ISSUE 4	
ISSUE	DATE	AMENDMENT	BY	APPD.		BY	DATE				

1. THE EXISTING PIPELINES ARE NOT PRESENTED IN THIS DRAWING FOR CLARITY. DETAILS REFER TO CONCEPT DESIGN SET OF DRAWINGS. EXISTING SERVICE DATA TAKEN FROM ASSET OWNER GIS. FURTHER ON-SITE INVESTIGATION NEEDED TO CONFIRM LOCATION AND SIZE. DIVERSION MAY BE REQUIRED.



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				DES. APPROVED				ORIGINAL SCALE A3 AS SHOWN	CONTRACT No. —		
4	25.07.25	ISSUE FOR INFORMATION	JF	MC	DRAWN			C.LACAMBRA	07-25	REF No. —	
3	16.05.25	ISSUE FOR INFORMATION	JF	MC	DWG. APPROVED					DWG No. 2014581.102	
2	14.05.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.			J.STOKES	07-25	ISSUE 4	
1	25.04.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES	07-25				
ISSUE	DATE	AMENDMENT	BY	APPD.		BY	DATE				



LEGEND

C

EXISTING COMMS

S

EXISTING WASTEWATER (WW)

W

EXISTING WATER

G

EXISTING GAS

E

EXISTING ELECTRICITY

SW

EXISTING STORMWATER (SW)

X

PIPE TO BE ABANDONED

COLLECTOR SEWER

10M WIDE PIPELINE CONSTRUCTION CORRIDOR

WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

TEMPORARY SHAFT

PERMANENT SHAFT

APPROXIMATE CONSTRUCTION AREAS

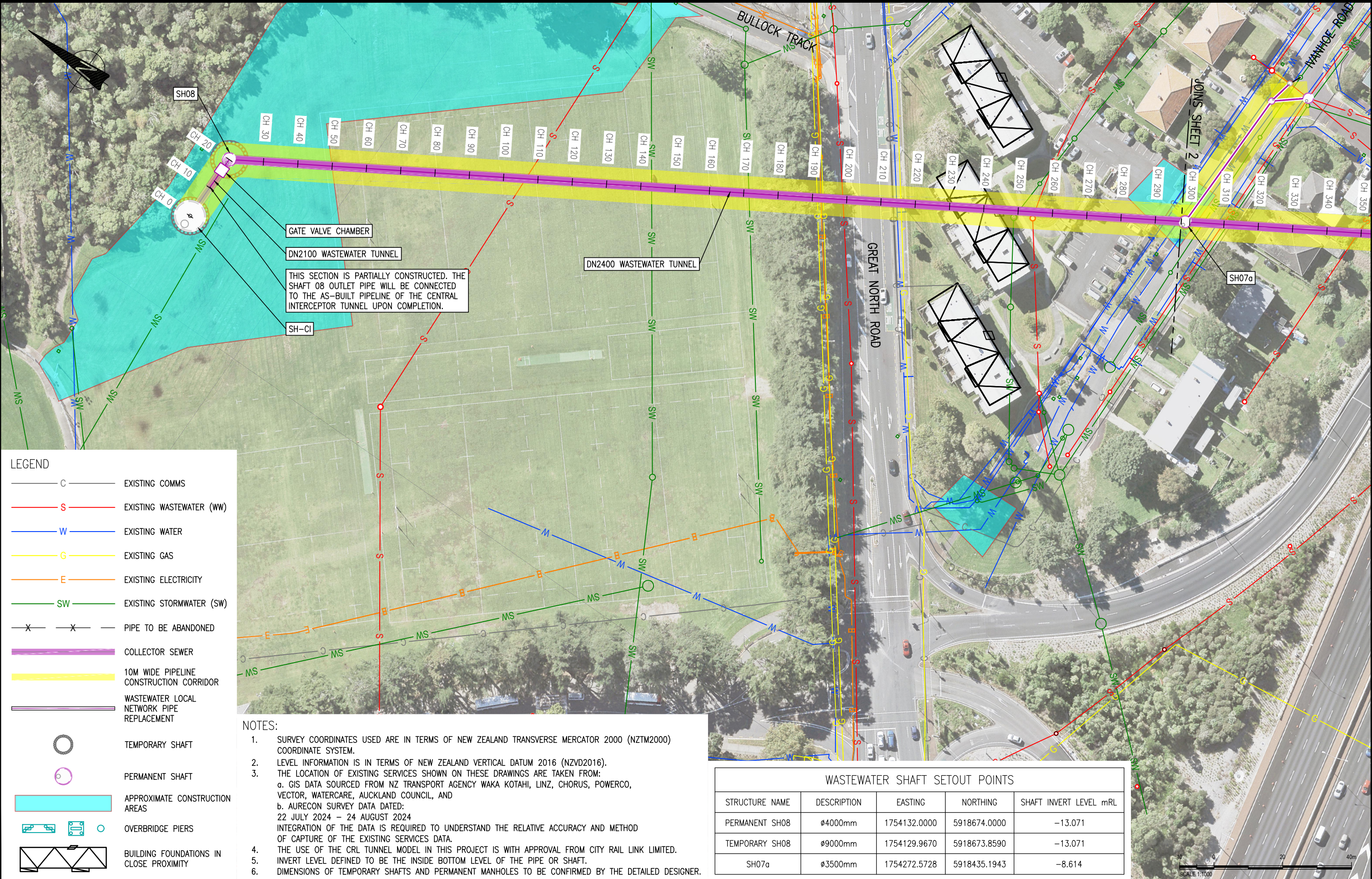
OVERBRIDGE PIERS

BUILDING FOUNDATIONS IN CLOSE PROXIMITY

NOTES:

- SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
- LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:
a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHĪ, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND
b. AURECON SURVEY DATA DATED:
22 JULY 2024 – 24 AUGUST 2024
INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

WASTEWATER SHAFT SETOUT POINTS				
STRUCTURE NAME	DESCRIPTION	EASTING	NORTHING	SHAFT INVERT LEVEL mRL
PERMANENT SH08	ø4000mm	1754132.0000	5918674.0000	-13.071
TEMPORARY SH08	ø9000mm	1754129.9670	5918673.8590	-13.071
SH07a	ø3500mm	1754272.5728	5918435.1943	-8.614



- LEGEND
- C — EXISTING COMMS
 - S — EXISTING WASTEWATER (WW)
 - W — EXISTING WATER
 - G — EXISTING GAS
 - E — EXISTING ELECTRICITY
 - SW — EXISTING STORMWATER (SW)
 - X — X — PIPE TO BE ABANDONED
 - Collector Sewer
 - 10M WIDE PIPELINE CONSTRUCTION CORRIDOR
 - WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

- NOTES:
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 - INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
 - DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

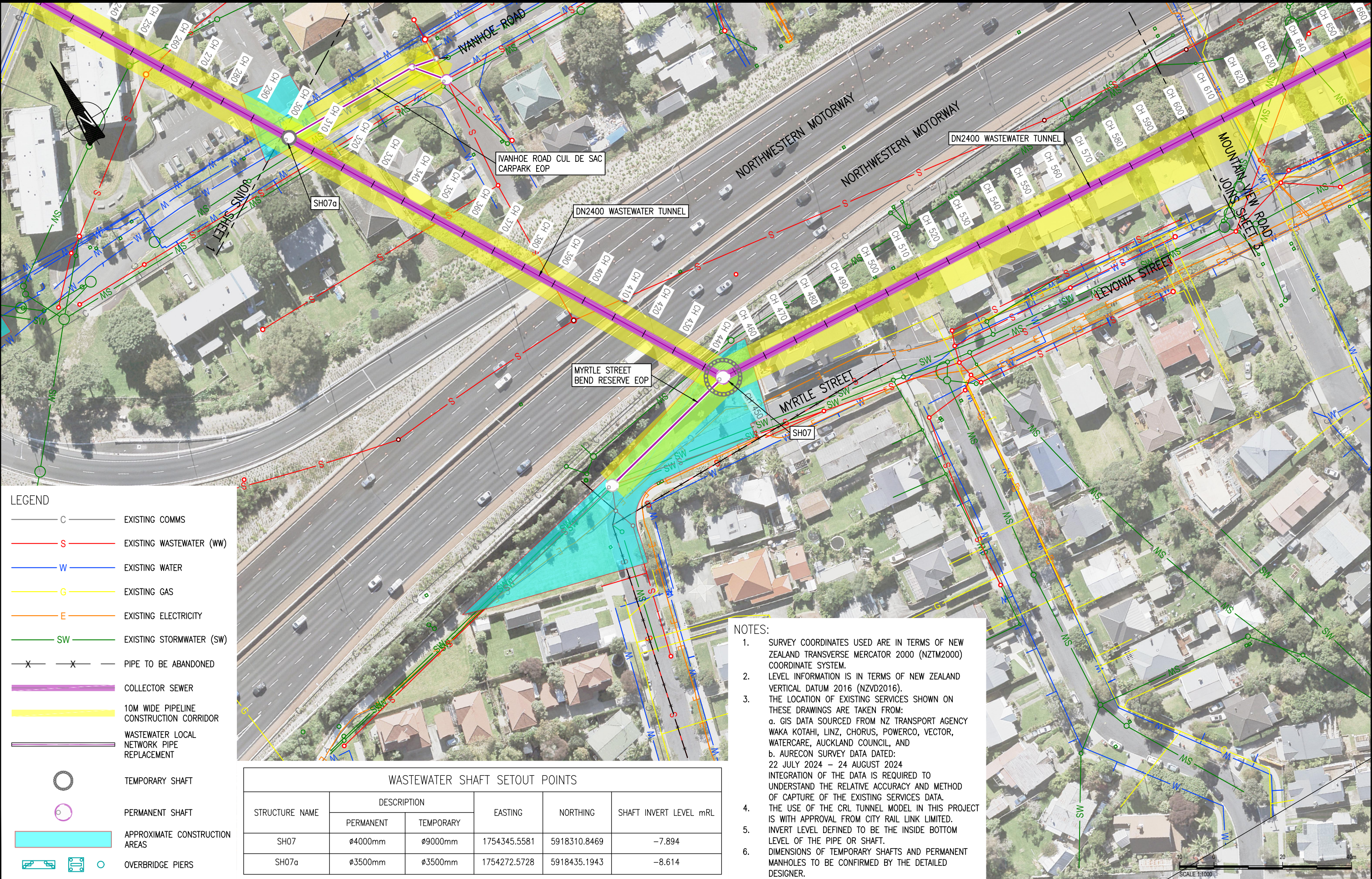
WASTEWATER SHAFT SETOUT POINTS				
STRUCTURE NAME	DESCRIPTION	EASTING	NORTHING	SHAFT INVERT LEVEL mRL
PERMANENT SH08	Ø4000mm	1754132.0000	5918674.0000	-13.071
TEMPORARY SH08	Ø9000mm	1754129.9670	5918673.8590	-13.071
SH07a	Ø3500mm	1754272.5728	5918435.1943	-8.614

				DESIGNED		
				DES. APPROVED		
				DRAWN	C.LACAMBRA	07-25
				DWG. APPROVED		
2	25.07.25	ISSUE FOR INFORMATION	JF	WSL DESIGN MGMT.	J.STOKES	07-25
1	16.05.25	ISSUE FOR INFORMATION	JF	WSL PROJ. LEAD	J.STOKES	07-25
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE



MOTIONS COLLECTOR SEWER
CIVIL
PLAN (DN2400 PIPE JACKING OPTION A2) – SHEET 2

CAD FILE 2014581.104	DATE 25-07-2025
ORIGINAL SCALE A3 1:1000	CONTRACT No. —
REF No. —	
DWG No. 2014581.104	ISSUE 2



LEGEND

C

EXISTING COMMS

S

EXISTING WASTEWATER (WW)

W

EXISTING WATER

G

EXISTING GAS

E

EXISTING ELECTRICITY

SW

EXISTING STORMWATER (SW)

X

PIPE TO BE ABANDONED

COLLECTOR SEWER

10M WIDE PIPELINE CONSTRUCTION CORRIDOR

WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

TEMPORARY SHAFT

PERMANENT SHAFT

APPROXIMATE CONSTRUCTION AREAS

OVERBRIDGE PIERS

WASTEWATER SHAFT SETOUT POINTS					
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	SHAFT INVERT LEVEL mRL
	PERMANENT	TEMPORARY			
SH07	ø4000mm	ø9000mm	1754345.5581	5918310.8469	-7.894
SH07a	ø3500mm	ø3500mm	1754272.5728	5918435.1943	-8.614

- NOTES:
1.

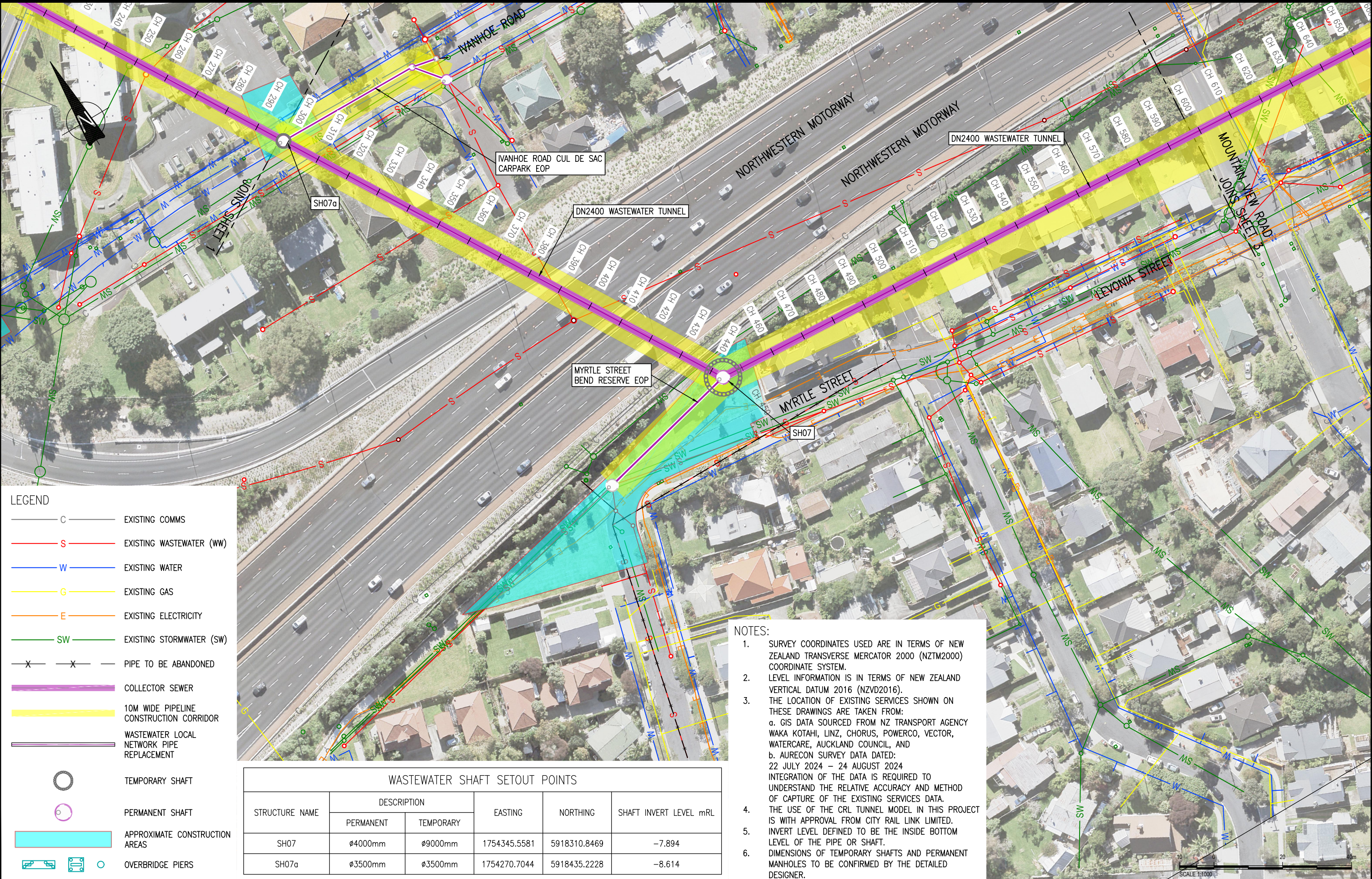
SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
2.

LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
3.

THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:
a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHĪ, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND
b. AURECON SURVEY DATA DATED:
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THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
4.

INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
5.

DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.



LEGEND

C

EXISTING COMMS

S

EXISTING WASTEWATER (WW)

W

EXISTING WATER

G

EXISTING GAS

E

EXISTING ELECTRICITY

SW

EXISTING STORMWATER (SW)

X

PIPE TO BE ABANDONED

COLLECTOR SEWER

10M WIDE PIPELINE CONSTRUCTION CORRIDOR

WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

TEMPORARY SHAFT

PERMANENT SHAFT

APPROXIMATE CONSTRUCTION AREAS

OVERBRIDGE PIERS

WASTEWATER SHAFT SETOUT POINTS					
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	SHAFT INVERT LEVEL mRL
	PERMANENT	TEMPORARY			
SH07	ø4000mm	ø9000mm	1754345.5581	5918310.8469	-7.894
SH07a	ø3500mm	ø3500mm	1754270.7044	5918435.2228	-8.614

- NOTES:
1.

SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
2.

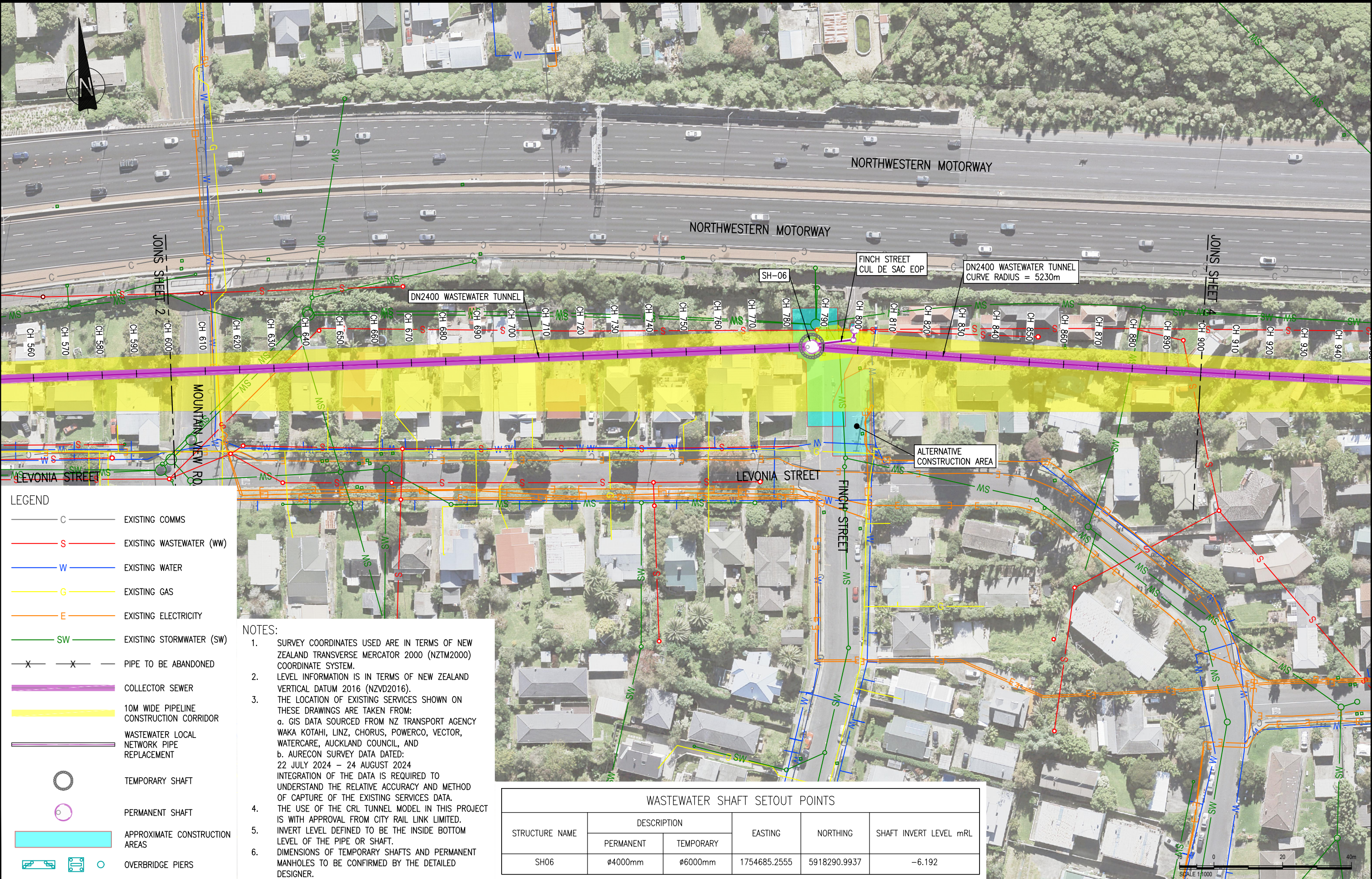
LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
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5.

INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
6.

DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.



LEGEND

- C — EXISTING COMMS
- S — EXISTING WASTEWATER (WW)
- W — EXISTING WATER
- G — EXISTING GAS
- E — EXISTING ELECTRICITY
- SW — EXISTING STORMWATER (SW)
- X — X — PIPE TO BE ABANDONED
- Collector Sewer
- 10M WIDE PIPELINE CONSTRUCTION CORRIDOR
- WASTEWATER LOCAL NETWORK PIPE REPLACEMENT
- TEMPORARY SHAFT
- PERMANENT SHAFT
- APPROXIMATE CONSTRUCTION AREAS
- OVERBRIDGE PIERS

NOTES:

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4. INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
5. DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

WASTEWATER SHAFT SETOUT POINTS					
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	SHAFT INVERT LEVEL mRL
	PERMANENT	TEMPORARY			
SH06	ø4000mm	ø6000mm	1754685.2555	5918290.9937	-6.192

		DESIGNED			
		DES. APPROVED			
		DRAWN		C.LACAMBRA 05-25	
		DWG. APPROVED			
		WSL DESIGN MGMT.		J.STOKES 05-25	
		WSL PROJ. LEAD		J.STOKES 05-25	
1 16.05.25		ISSUE FOR INFORMATION		JF MC	
ISSUE	DATE	AMENDMENT		BY	APPD.

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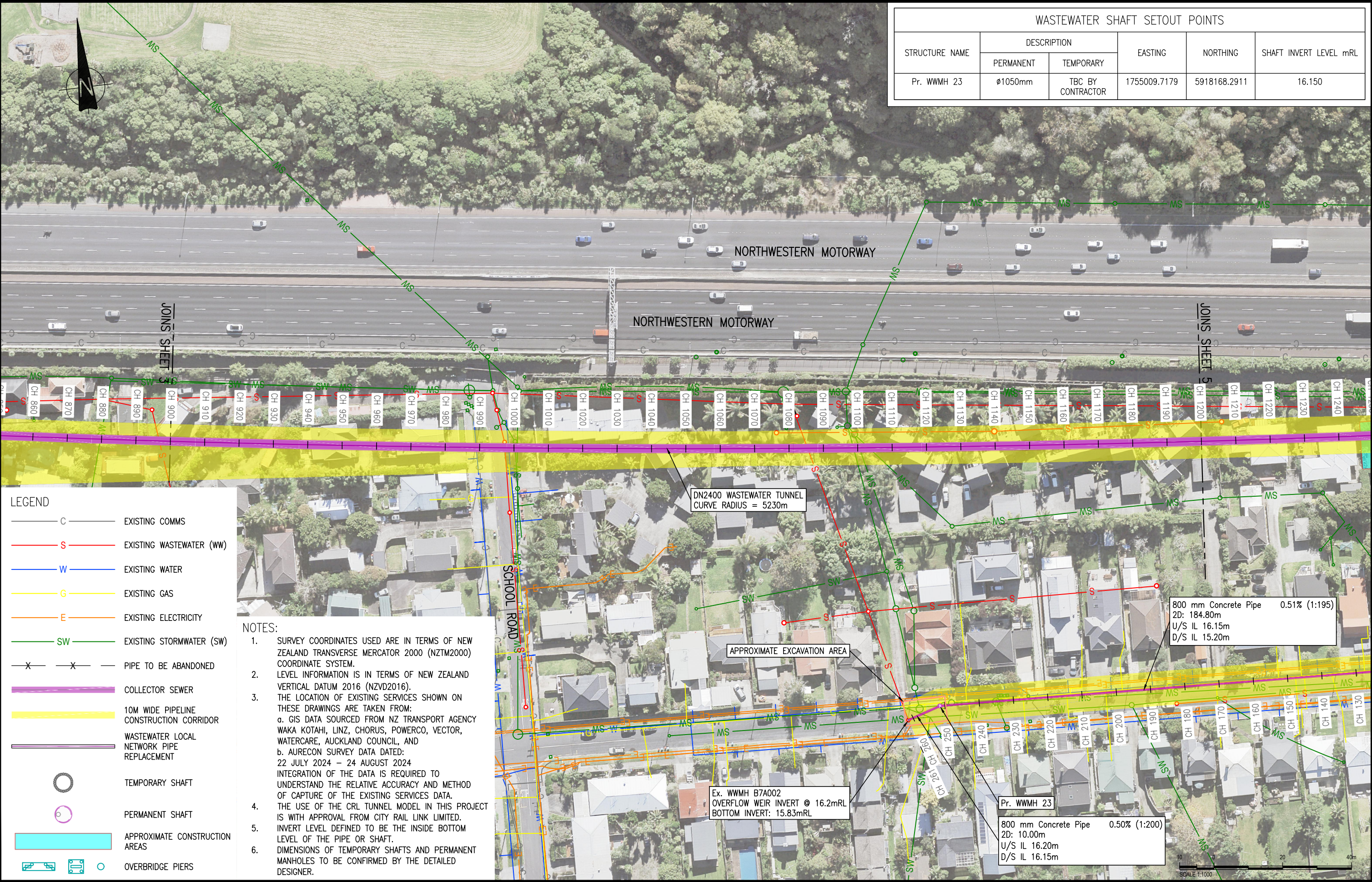
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MOTIONS COLLECTOR SEWER

CIVIL

PLAN (DN2400 PIPE JACKING OPTION) – SHEET 5

CAD FILE	2014581.107	DATE	16-05-2025
ORIGINAL SCALE	A3 1:1000	CONTRACT No.	-
REF No.	-		
DWG No.	2014581.107	ISSUE	1



WASTEWATER SHAFT SETOUT POINTS					
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	SHAFT INVERT LEVEL mRL
	PERMANENT	TEMPORARY			
Pr. WWMH 23	Ø1050mm	TBC BY CONTRACTOR	1755009.7179	5918168.2911	16.150

LEGEND

C

EXISTING COMMS

S

EXISTING WASTEWATER (WW)

W

EXISTING WATER

G

EXISTING GAS

E

EXISTING ELECTRICITY

SW

EXISTING STORMWATER (SW)

X

PIPE TO BE ABANDONED

COLLECTOR SEWER

10M WIDE PIPELINE CONSTRUCTION CORRIDOR

WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

TEMPORARY SHAFT

PERMANENT SHAFT

APPROXIMATE CONSTRUCTION AREAS

OVERBRIDGE PIERS

- NOTES:
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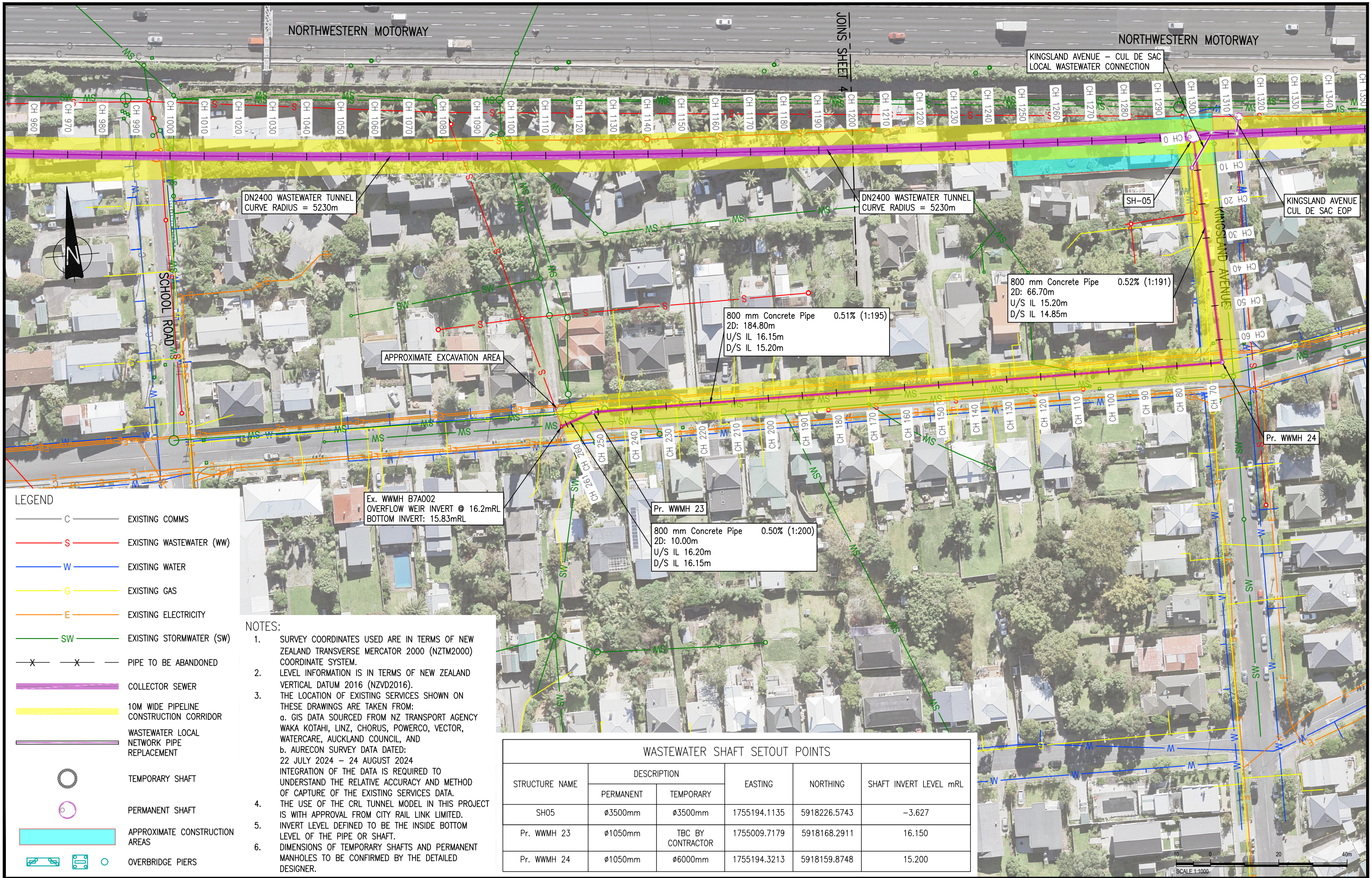
ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DES. APPROVED	DRAWN	C.LACAMBRA	07-25
3	25.07.25	ISSUE FOR INFORMATION	JF	MC	DWG. APPROVED				
2	28.05.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.	J.STOKES			07-25
1	16.05.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES			07-25
ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DES. APPROVED	DRAWN	C.LACAMBRA	07-25

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MOTIONS COLLECTOR SEWER
CIVIL
PLAN (DN2400 PIPE JACKING OPTION) – SHEET 6

CAD FILE	2014581.108	DATE	25-07-2025
ORIGINAL SCALE	A3 1:1000	CONTRACT No.	—
REF No.	—		
DWG No.	2014581.108	ISSUE	3

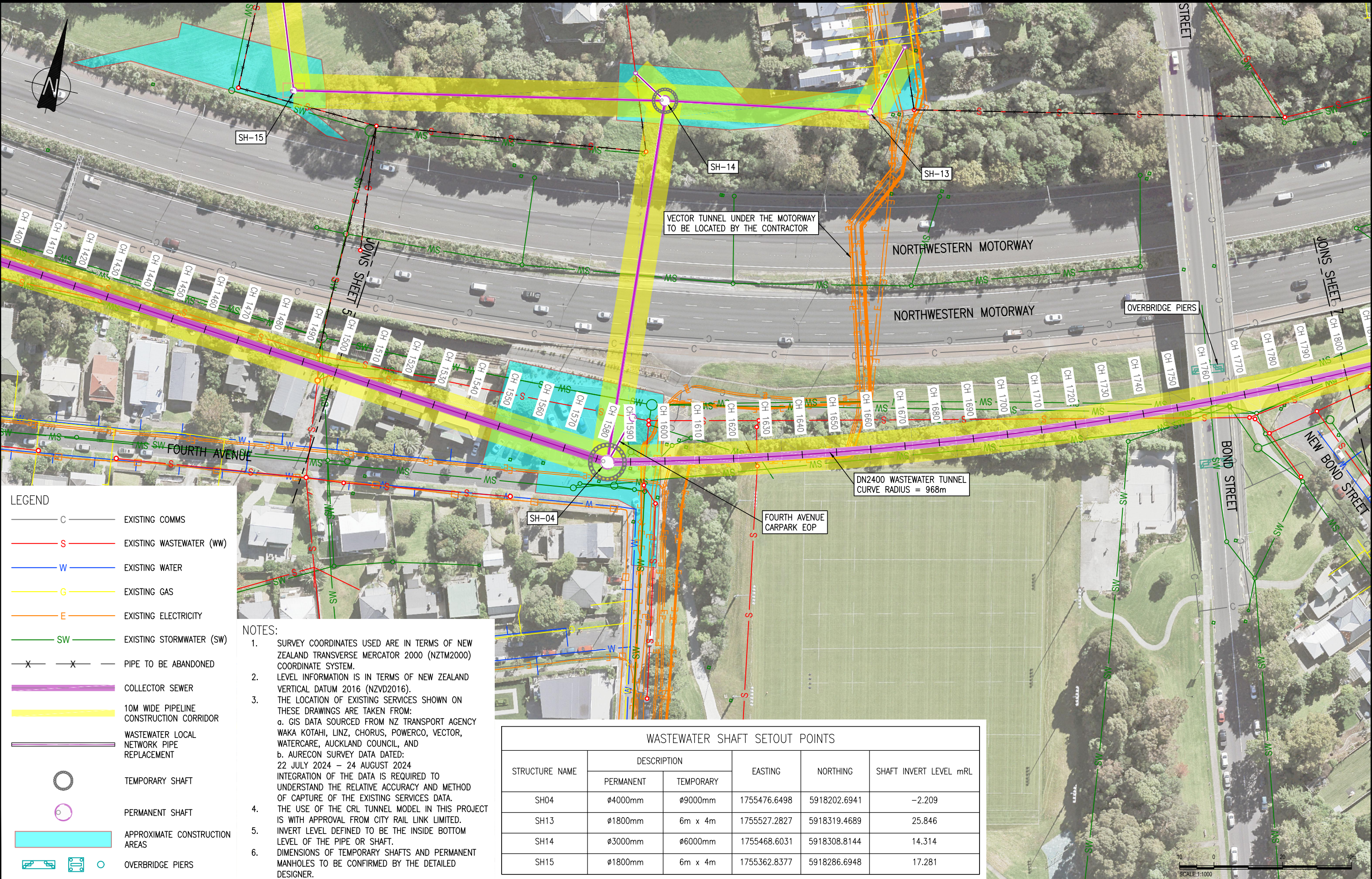


				DESIGNED		
				DES. APPROVED		
				DRAWN	C.LACAMBRA	07-25
3	25.07.25	ISSUE FOR INFORMATION	JF	MC	DWG. APPROVED	
2	28.05.25	ISSUE FOR INFORMATION	JF	MC	WSL DESIGN MGMT.	J.STOKES 07-25
1	16.05.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES 07-25
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE


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MOTIONS COLLECTOR SEWER
CIVIL
PLAN (DN2400 PIPE JACKING OPTION) – SHEET 7

CAD FILE	2014581.109	DATE	25-07-2025
ORIGINAL SCALE	A3 1:1000	CONTRACT No.	—
REF No.	—		
DWG No.	2014581.109	ISSUE	3



LEGEND

C

EXISTING COMMS

S

EXISTING WASTEWATER (WW)

W

EXISTING WATER

G

EXISTING GAS

E

EXISTING ELECTRICITY

SW

EXISTING STORMWATER (SW)

X

PIPE TO BE ABANDONED

COLLECTOR SEWER

10M WIDE PIPELINE CONSTRUCTION CORRIDOR

WASTEWATER LOCAL NETWORK PIPE REPLACEMENT

TEMPORARY SHAFT

PERMANENT SHAFT

APPROXIMATE CONSTRUCTION AREAS

OVERBRIDGE PIERS

NOTES:

- SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
- LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:
a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY, WAKA KOTAHĪ, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND
b. AURECON SURVEY DATA DATED: 22 JULY 2024 – 24 AUGUST 2024
INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

WASTEWATER SHAFT SETOUT POINTS					
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	SHAFT INVERT LEVEL mRL
	PERMANENT	TEMPORARY			
SH04	ø4000mm	ø9000mm	1755476.6498	5918202.6941	-2.209
SH13	ø1800mm	6m x 4m	1755527.2827	5918319.4689	25.846
SH14	ø3000mm	ø6000mm	1755468.6031	5918308.8144	14.314
SH15	ø1800mm	6m x 4m	1755362.8377	5918286.6948	17.281