

 Nelson City Council <i>te kaitiaki o whakatū</i> INFRASTRUCTURE	APPROVED
	DEPUTY CHIEF EXECUTIVE/ EXECUTIVE DIRECTOR DELIVERY DATE
NCC Plan No.	26-0881
Project ID No.	3981

NELSON CITY COUNCIL

MAITAI RIVER FLOOD IMPROVEMENT WORKS - AREA 3
QUEEN'S GARDENS STORMWATER UPGRADE

TENDER ISSUE

PROJECT NO : 1006675.5171

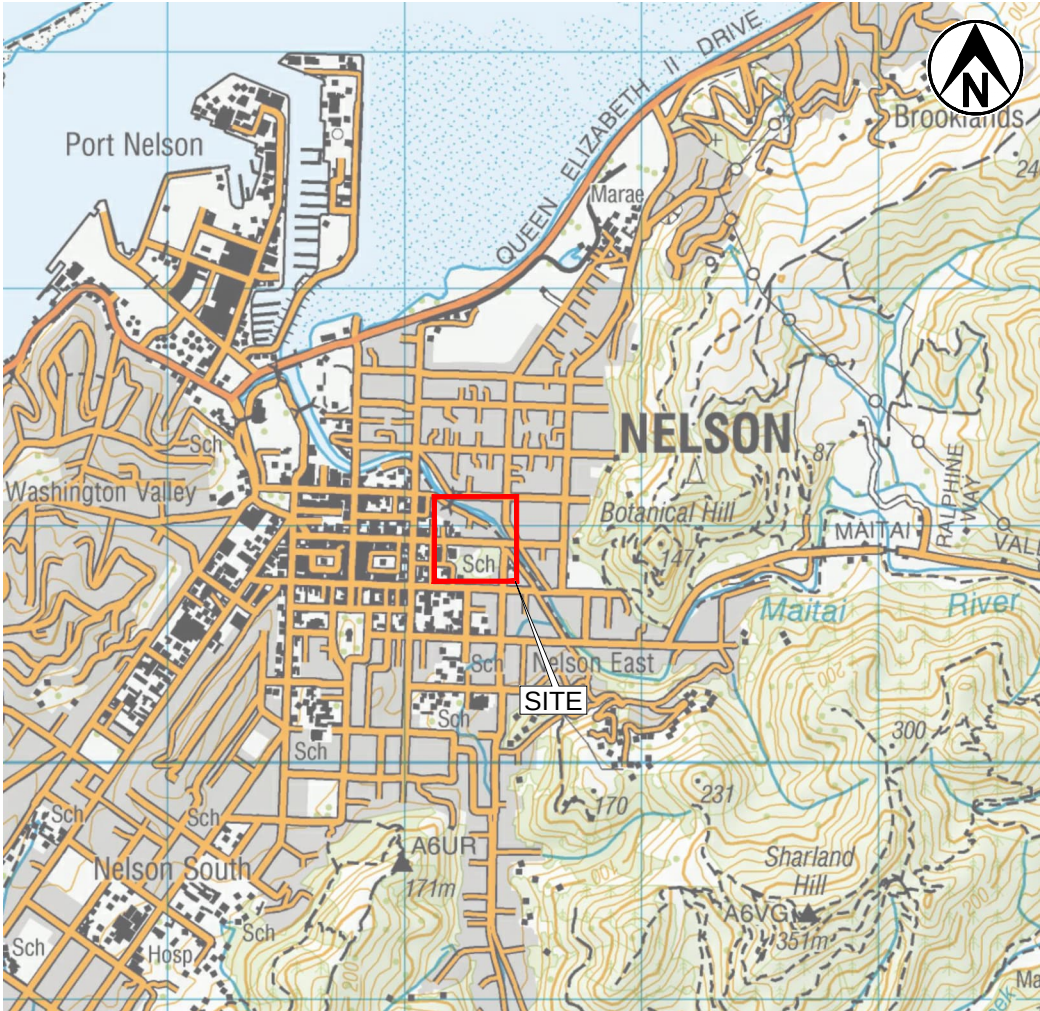
ISSUE DATE : 30 JUNE 2026

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sustain a better world*

DRAWING REGISTER				
		DRAWING NUMBER	REV	TITLE
GENERAL				
1	✓	1006675.5171-001	A	DRAWING LIST AND LOCALITY PLAN
2	✓	1006675.5171-002	A	GENERAL NOTES AND LEGEND
3	✓	1006675.5171-010	A	OVERALL SITE PLAN
STORMWATER				
4	✓	1006675.5171-021	A	PLAN AND LONG SECTION - SHEET 1
5	✓	1006675.5171-022	A	PLAN AND LONG SECTION - SHEET 2
6	✓	1006675.5171-023	A	PLAN AND LONG SECTION - SHEET 3
DETAILS				
7	✓	1006675.5171-041	A	SHEET 1 - MANHOLE SCHEMATICS
8	✓	1006675.5171-042	A	SHEET 2 - PIPE DETAILS
9	✓	1006675.5171-043	A	SHEET 3 - OUTLET DETAILS
10	✓	1006675.5171-044	A	SHEET 4 - POND DETAILS
11	✓	1006675.5171-045	A	SHEET 5 - POND DETAILS
PEDESTRIAN RAMP				
12	✓	1006675.5171-051	A	PLAN
13	✓	1006675.5171-052	A	SECTIONS
	✓	DENOTES DRAWINGS IN THIS ISSUE: 30/06/2026		

INITIALS	FULL NAME	ROLE
JALE	JASON LEMAN	DESIGN
HEWH	HEIDI WHALLEY	CAD
HOTI	HOMER TIONGCO	CAD
OLWH	OLIVER WHALLEY	DESIGN CHECK
WYHU	WYNAND HURN	CAD CHECK



NOTE: TOPOMAP SOURCED FROM LINZ DATA SERVICE <https://data.linz.govt.nz/layer/50767-nz-topo50-maps/>, LICENSED BY LINZ FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL

LOCALITY PLAN

SCALE (A1) N.T.S.
SCALE (A3) N.T.S.



Nelson City Council
te kaunihara o whakatū

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INFRASTRUCTURE

DEPUTY CHIEF EXECUTIVE/ EXECUTIVE DIRECTOR DELIVERY
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A	FOR TENDER ISSUE	HOTI	OLWH	30.06.26	DESIGNED	JALE	AUG.25	DRAWING STATUS	CLIENT NELSON CITY COUNCIL	
					DRAWN	HEWH	AUG.25	TENDER ISSUE		
					DESIGN CHECKED	OLWH	30.06.26	PROJECT PHASE		
					DRAWING CHECKED	WYHU	29.06.26	TENDER		
					NOT FOR CONSTRUCTION					THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED
DRAWING LIST AND LOCALITY PLAN									PROJECT QUEEN'S GARDENS STORMWATER UPGRADE	
TITLE GENERAL										
SCALE (A1) AS SHOWN									DWG No. 1006675.5171-001	REV A

GENERAL NOTES

1.

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

2.

HORIZONTAL COORDINATE SYSTEM: NZTM 2000.

3.

LEVELS TO NZVD2016.

4.

AERIAL PHOTO AND PROPERTY BOUNDARIES SOURCED FROM LINZ DATA SERVICE, <https://data.linz.govt.nz/data/>, AND LICENSED BY LINZ FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENSE.

5.

UNDERGROUND SERVICES SOURCED FROM www.topofthesouthmaps.co.nz AND LICENSED BY NELSON CITY COUNCIL (NCC) FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENSE.

6.

TOPOGRAPHICAL SURVEY PROVIDED BY COTTON & LIGHT LTD. RECEIVED 05/02/2025.

7.

SERVICES LOCATIONS AND DEPTHS SHOWN ON THE DRAWINGS ARE INDICATIVE BASED ON POTHOLE INFORMATION RECEIVED 5.2.2025 AND 08/08/2025 OR READILY AVAILABLE RECORD PLANS PROVIDED BY UTILITY OWNERS. OTHER SERVICES MAY EXIST ON THE SITE. OVERHEAD LINES NOT SHOWN. CONTRACTOR RESPONSIBLE FOR SERVICE LOCATES PRIOR TO EXCAVATION.

8.

CONTRACTOR TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION.

9.

THE CONTRACTOR IS TO TAKE MEASURES TO PROTECT, RELOCATE OR DIVERT SERVICES AS NECESSARY TO SAFELY COMPLETE THE WORKS.

10.

EXCAVATION IN THE VICINITY OF THE OTHER SERVICES TO BE UNDERTAKEN IN ACCORDANCE WITH THE RELEVANT SERVICE AUTHORITY WITH STANDOVER WHERE REQUIRED.

11.

AS-BUILT DRAWINGS TO BE PROVIDED IN NZTM 2000 PROJECTION AS PER NTLDM.

12.

WHERE MINIMUM SEPARATION BETWEEN 2 PIPES IS LESS THAN 200mm, USE PE FOAM PRODUCT (SOLID CLOSE CELLED) OR HIGH-DENSITY RUBBER TO A MINIMUM OF 50mm THICKNESS, UNLESS OTHERWISE NOTED.

13.

PROPOSED MANHOLES ARE TO BE CONSIDERED AS TRENCH WATER STOPS.

14.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR SHALL CONFIRM ON SITE THE LINES AND LEVELS FOR THE PROPOSED PIPE AND SHALL CONFIRM THAT THE LINES AND LEVELS TO BE FORMED CAN BE ACHIEVED AND THE CONTRACTOR SHALL PROVIDE SUCH CONFIRMATION TO THE ENGINEER.

15.

EXISTING GROUND SURFACE IS INDICATIVE ONLY. LEVELS AND CHANGES OF GRADE TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.

16.

ALL CONCRETE TO HAVE A MINIMUM CRUSHING STRENGTH OF 27.5MPa AFTER 28 DAYS UNLESS OTHERWISE NOTED.

17.

THE DESIGN AND INSTALLATION MUST COMPLY WITH RELEVANT NEW ZEALAND STANDARDS FOR CONCRETE PIPE (I.E. NZS 3725:2007) PLASTIC PIPE (I.E. NZS 2566.2:2002).

19.

ALL CONCRETE MANHOLE BENCHING PER NTLDM DRAWINGS 511 AND 512.

20.

FOR THE WORKS ON PRIVATE PROPERTY (205 AND 207 BRIDGE STREET), THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE PROPERTY OWNERS OF WHEN WORK WILL BEGIN ON THEIR PROPERTY AT LEAST 1 MONTH PRIOR.

21.

REFER TO THE COAL TAR ASSESSMENT REPORT (BY ENVIROLINK) AND CONTAMINATED SITE MANAGEMENT PLAN (CSMP) FOR MANAGEMENT OF KNOWN CONTAMINANTS.

22.

REFER TO DRAWING 1006675.5171-041 FOR MANHOLE SCHEMATIC DETAILS.

23.

CONTRACTOR TO PROVIDE A RISK MANAGEMENT PLAN FOR TRENCHING ADJACENT TO EXISTING STRUCTURES FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.

24.

WHERE THERE IS LESS THAN 600mm COVER OVER PROPOSED uPVC PIPEWORK, CONSTRUCT A CONCRETE CAP PER DETAIL ON DRAWING 1006675.5171-042.

25.

CONTRACTOR TO COORDINATE AN INDEPENDENT PRE-CONSTRUCTION AND POST-CONSTRUCTION DILAPIDATION SURVEY OF ADJACENT PROPERTIES. REFER TO SPECIFICATIONS.

26.

REFER TO THE NOISE AND VIBRATION SCREENING ASSESSMENT (BY T+T) TO INFORM MANAGEMENT OF NOISE AND VIBRATION DURING CONSTRUCTION.

EXISTING SERVICES LEGEND

—

·

—

PROPERTY BOUNDARIES

— W — — — —

EXISTING WATER PIPES

— WW — — — —

EXISTING WASTEWATER PIPES

— SW — — — —

EXISTING STORMWATER PIPES

— CHORUS — — — —

EXISTING CHORUS

— PWR — — — —

EXISTING ELECTRICITY

—

EXISTING BUILDING OUTLINE

(H)

EXISTING HYDRANT

(M)

EXISTING MANHOLE

(m)

EXISTING METER

(R)

EXISTING REDUCER

(T)

EXISTING TEE

(S)

EXISTING SUMP

(TO)

EXISTING TOBY

(N)

EXISTING NODE

(O)

EXISTING OUTLET

(I)

EXISTING INLET

(BF)

EXISTING BACK FLOW PREVENTION DEVICE

(C)

EXISTING CONNECTOR

(V)

EXISTING VALVE

★

STREET LIGHTS

CLR

CLEARANCE

ABANDONED SERVICES LEGEND

— SW ✕ ✕ ✕ ✕ —

ABANDONED STORMWATER PIPE

NEW SERVICES LEGEND

NEW STORMWATER PIPE

w

NEW WATER PIPE

NEW STORMWATER MANHOLE

NEW STORMWATER LATERAL

PIPE FLOW DIRECTION

EASEMENT AREA (APPROX.)

BH02

BOREHOLE LOCATION

NOTE: THE TABLE IS NOT AN EXHAUSTIVE LIST OF HAZARDS BUT IS INTENDED TO HIGHLIGHT SITE RISKS IDENTIFIED DURING THE DESIGN TO AID THE CONTRACTOR IN THEIR HAZARD AND RISK ASSESSMENT

#

TABLE 1: SITE HAZARDS

HAZARD ID	DESCRIPTION
1	WORKING ADJACENT TO THE MAITAI RIVER (GROUND WATER, FLUCTUATING RIVER LEVELS, WORKING NEAR TREES)
2	WORKING THROUGH THE MAITAI RIVER WALKWAY (PEDESTRIANS, CYCLISTS, SCOOTERISTS, ETC)
3	WORKING NEAR BUILDING FOUNDATIONS
4	WORKING WITHIN A HAIL SITE (205 BRIDGE STREET), REFER TO THE CONTAMINATED SITE MANAGEMENT PLAN
5	WORKING IN QUEEN'S GARDENS ADJACENT TO THE POND (PEDESTRIANS, WORKING NEAR TREES, CONTAMINATED MATERIAL IN POND, WORKING NEAR WATER)
6	WORKING AROUND TRUNK WATER MAIN (OD355)
7	WORKING AROUND TRUNK WATER MAIN (DN200)

Nelson City Council

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DATE

26-0881

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A

FOR TENDER ISSUE

HOTI

OLWH

30.06.26

DESIGNED JALE AUG.25

DRAWN HEWH AUG.25

DESIGN CHECKED OLWH 30.06.26

DRAWING CHECKED WYHU 29.06.26

DRAWING STATUS

TENDER ISSUE

PROJECT PHASE

TENDER

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CLIENT

NELSON CITY COUNCIL

PROJECT

QUEEN'S GARDENS STORMWATER UPGRADE

TITLE

GENERAL

GENERAL NOTES AND LEGEND

SCALE (A1)

AS SHOWN

DWG No. 1006675.5171-002

REV A

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NOTES

1. REFER DRAWING 1006675.5171 FOR NOTES AND LEGENDS.





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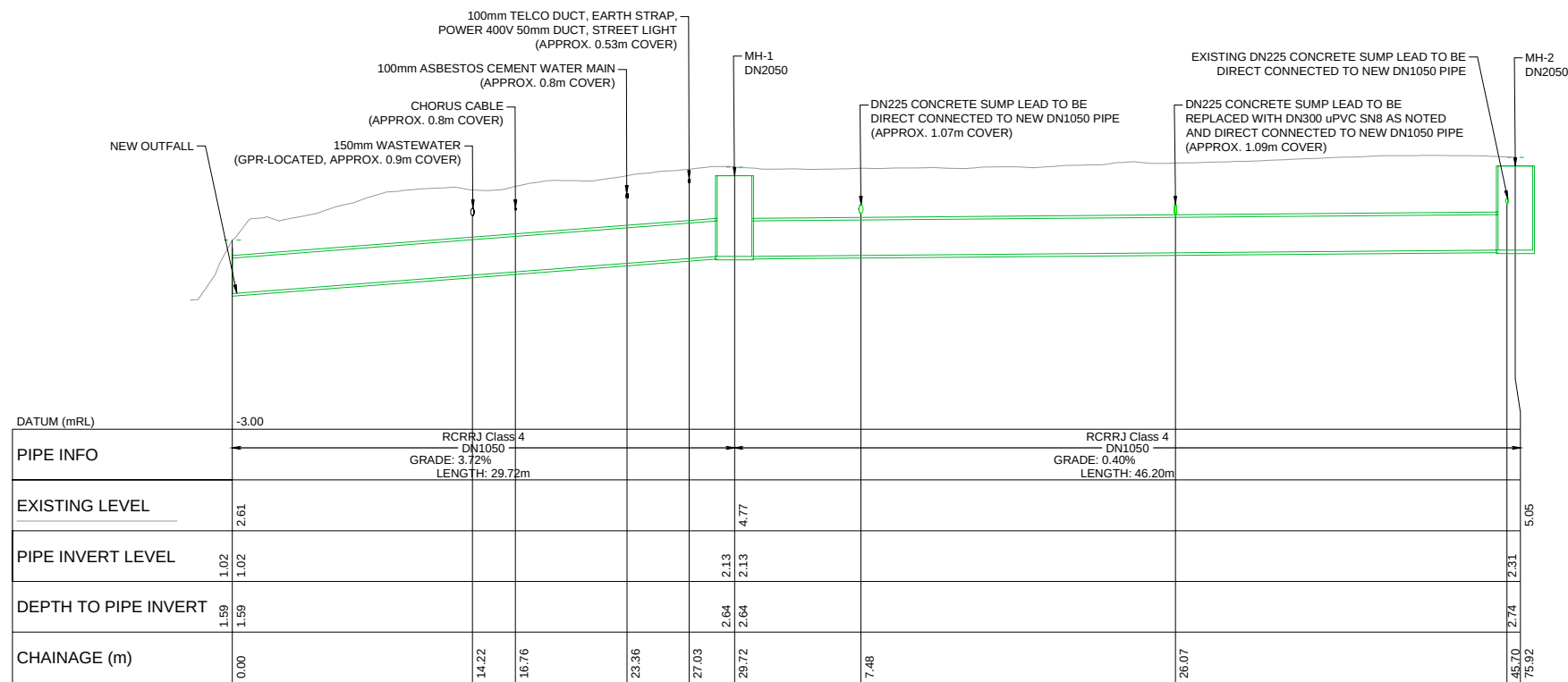
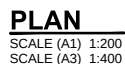
INFRASTRUCTURE

NCC Plan No. 26-0881

Project ID No. 3981

 www.tonkintaylor.com		HOTI OLWH 30.06.26		DESIGNED JALE AUG.25		DRAWING STATUS		CLIENT NELSON CITY COUNCIL	
								PROJECT QUEEN'S GARDENS STORMWATER UPGRADE	
A FOR TENDER ISSUE		CAD CHK DATE		DRAWN HEWH AUG.25		TENDER ISSUE		TITLE GENERAL	
				DESIGN CHECKED OLWH 30.06.26		PROJECT PHASE		OVERALL SITE PLAN	
REV DESCRIPTION				DRAWING CHECKED WYHU 29.06.26		TENDER		SCALE (A1) 1:400	
				NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		DWG No. 1006675.5171-010	
				APPROVED		DATE		REV A	

1. REFER DRAWING 1006675.5171 FOR NOTES AND LEGENDS.

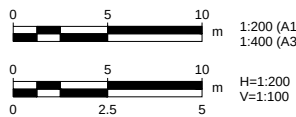


SCALE (A1) 1:200 (H), 1:100 (V)
SCALE (A3) 1:400 (H), 1:200 (V)

STRUCTURE	NOMINAL SIZE (mm)	NORTHING (mN)	EASTING (mE)
MH1	DN2050	5431033.128	1624272.909
MH2	DN2050	5430986.952	1624271.573

NOTE: SEE SHEET 1006675.041 FOR MANHOLE SCHEMATIC DETAILS

 Nelson City Council <i>te kaunihara o whakatū</i>	APPROVED _____
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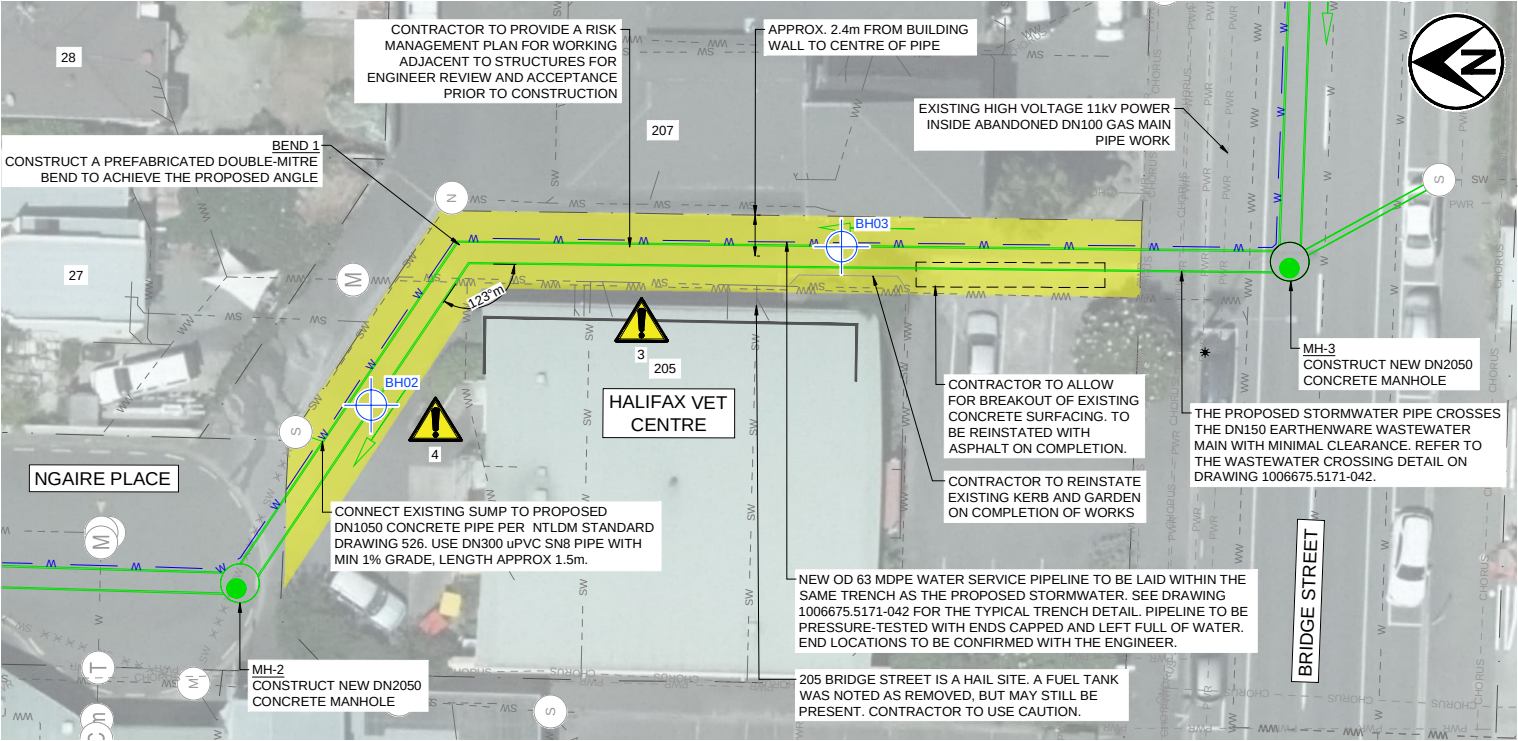


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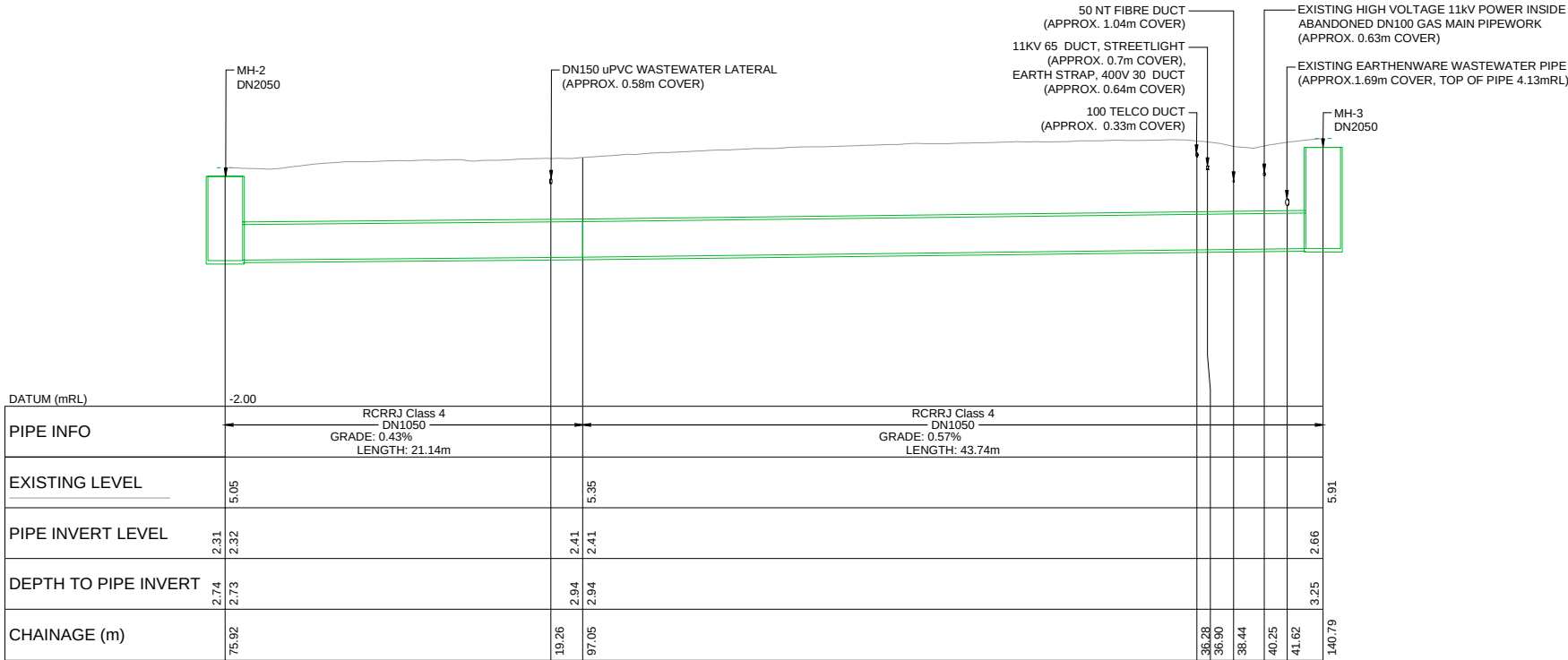
NOTES

1. REFER DRAWING 1006675.5171 FOR NOTES AND LEGENDS.



PLAN

SCALE (A1) 1:200
SCALE (A3) 1:400



NEW DN1050 STORMWATER MAIN

SCALE (A1) 1:200 (H), 1:100 (V)
SCALE (A3) 1:400 (H), 1:200 (V)

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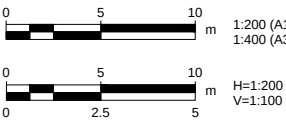


TABLE 1: STRUCTURE DETAILS			
STRUCTURE	NOMINAL SIZE ()	NORTHING (mN)	EASTING (mE)
MH3	DN2050	5430931.380	1624288.580

NOTE: SEE SHEET 1006675.041 FOR MANHOLE SCHEMATIC DETAILS

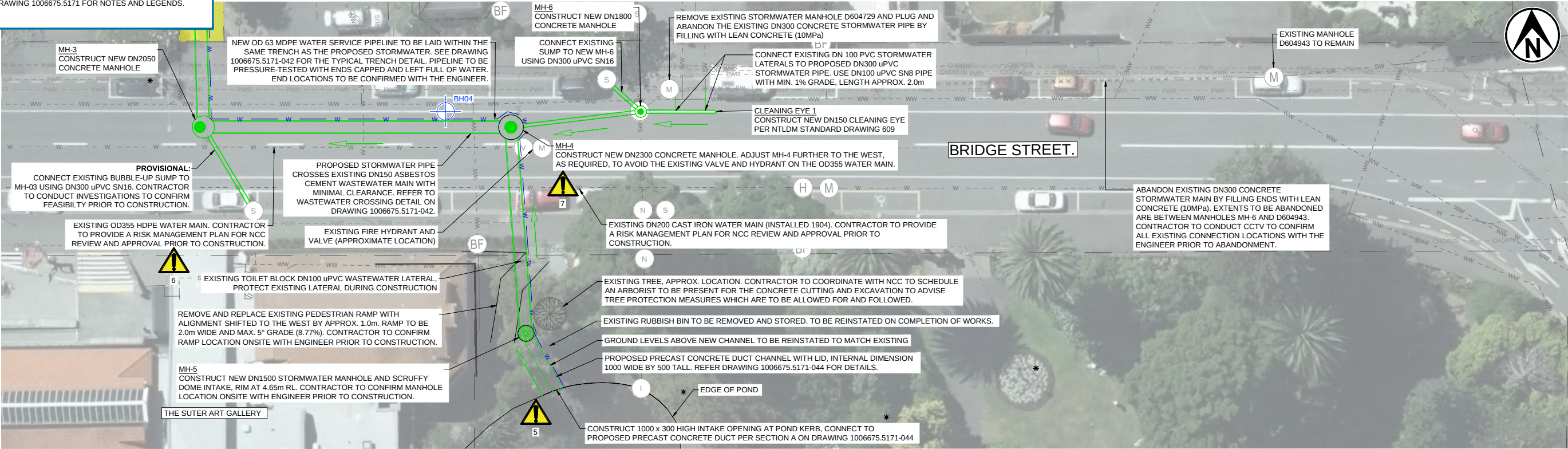


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					NOT FOR CONSTRUCTION				
PLAN AND LONG SECTION - SHEET 2									PROJECT QUEEN'S GARDENS STORMWATER UPGRADE
TITLE STORMWATER									
SCALE (A1) AS SHOWN DWG No. 1006675.5171-022									REV A

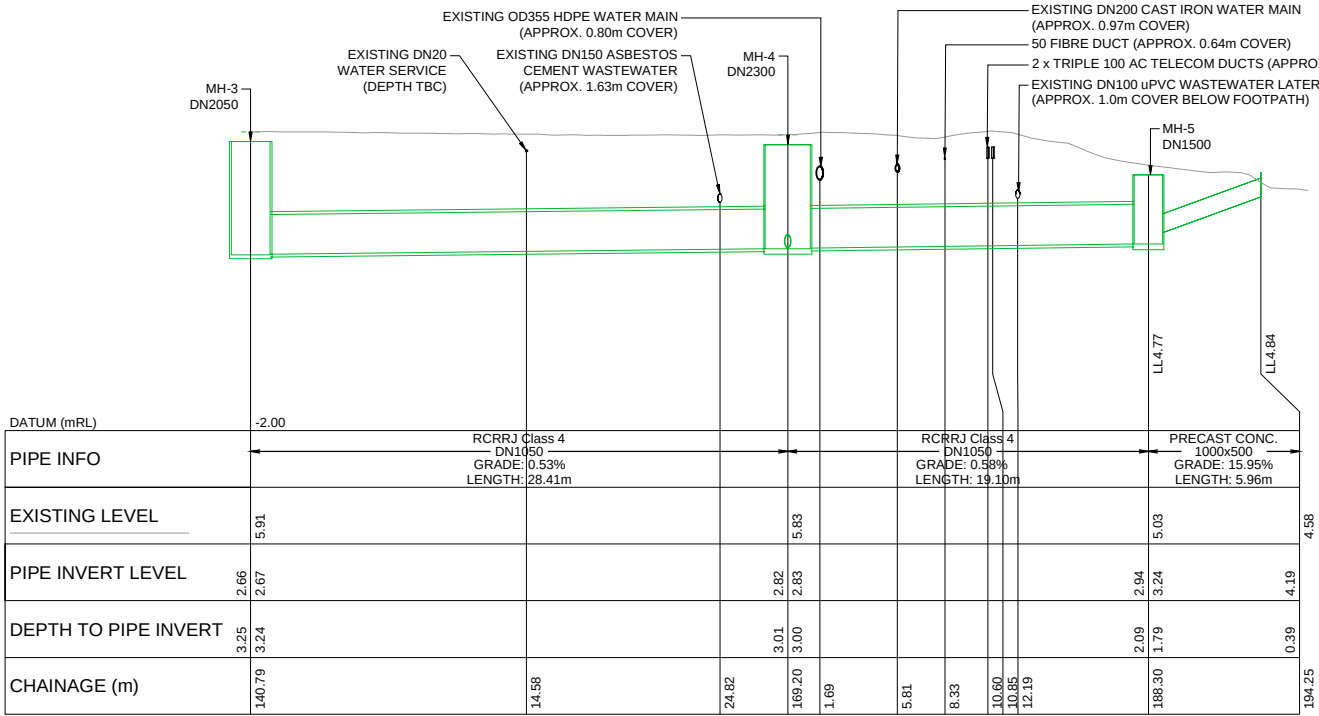
NOTES

1. REFER DRAWING 1006675.5171 FOR NOTES AND LEGENDS.



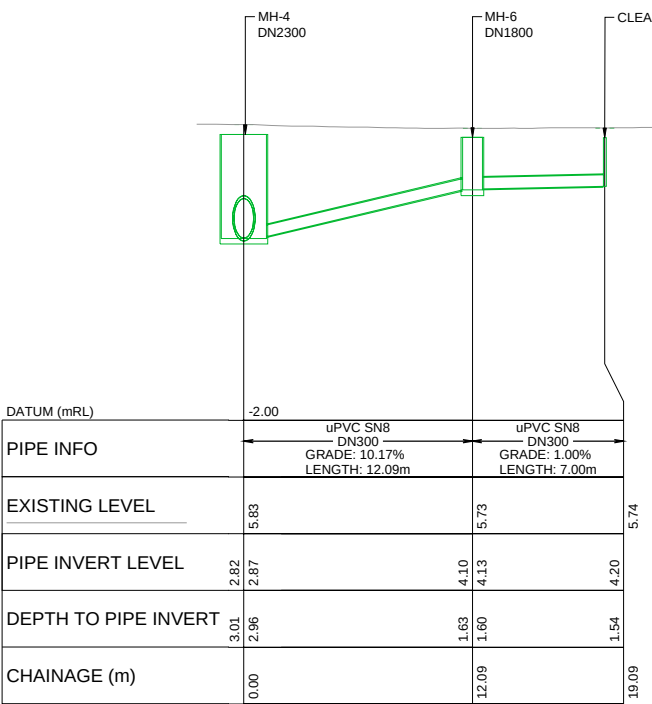
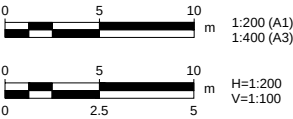
PLAN

SCALE (A1) 1:200
SCALE (A3) 1:400



NEW DN1050 STORMWATER MAIN

SCALE (A1) 1:200 (H), 1:100 (V)
SCALE (A3) 1:400 (H), 1:200 (V)



NEW DN300 STORMWATER MAIN

SCALE (A1) 1:200 (H), 1:100 (V)
SCALE (A3) 1:400 (H), 1:200 (V)

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TABLE 1: STRUCTURE DETAILS			
STRUCTURE	NOMINAL SIZE (mm)	NORTHING (mN)	EASTING (mE)
MH4	DN2300	5430930.333	1624316.974
MH5	DN1500	5430911.249	1624317.676
MH6	DN1800	5430931.321	1624329.025

NOTE: SEE SHEET 1006675.041 FOR MANHOLE SCHEMATIC DETAILS



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REV DESCRIPTION

HOTI OLWH 30.06.26

CAD CHK DATE

DESIGNED JALE AUG.25
DRAWN HEWH AUG.25
DESIGN CHECKED OLWH 30.06.26
DRAWING CHECKED WYWH 29.06.26

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DRAWING STATUS
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PROJECT PHASE
TENDER

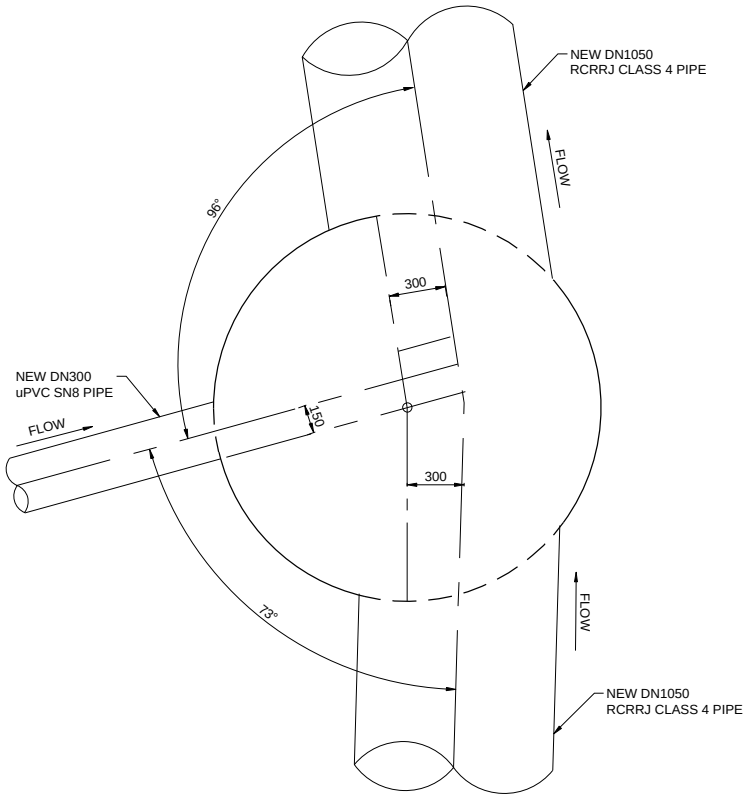
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CLIENT NELSON CITY COUNCIL
PROJECT QUEEN'S GARDENS STORMWATER UPGRADE

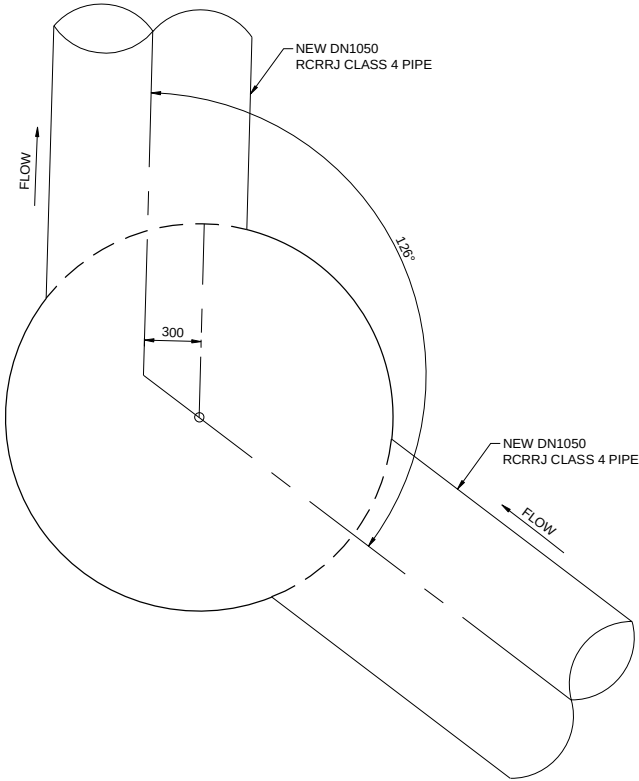
TITLE STORMWATER
PLAN AND LONG SECTION - SHEET 3

SCALE (A1) AS SHOWN DWG No. 1006675.5171-023

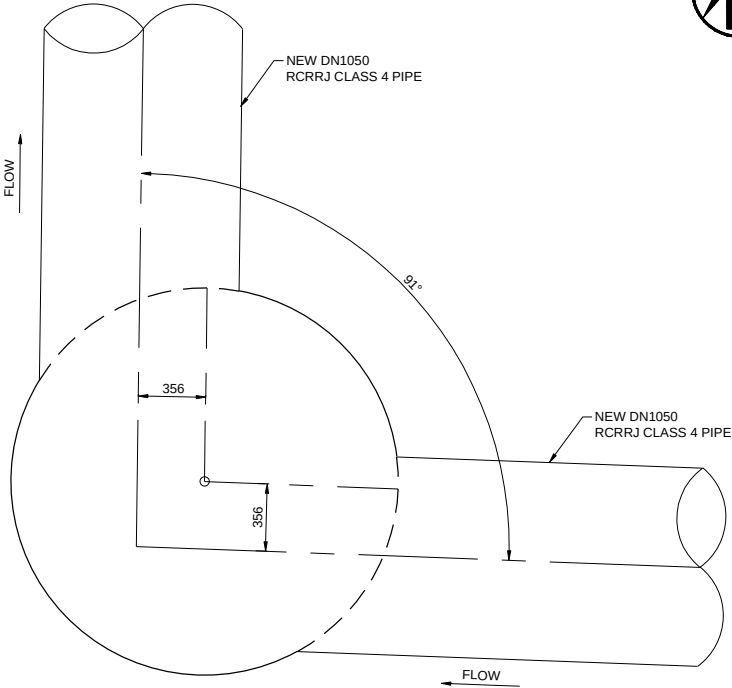
REV A



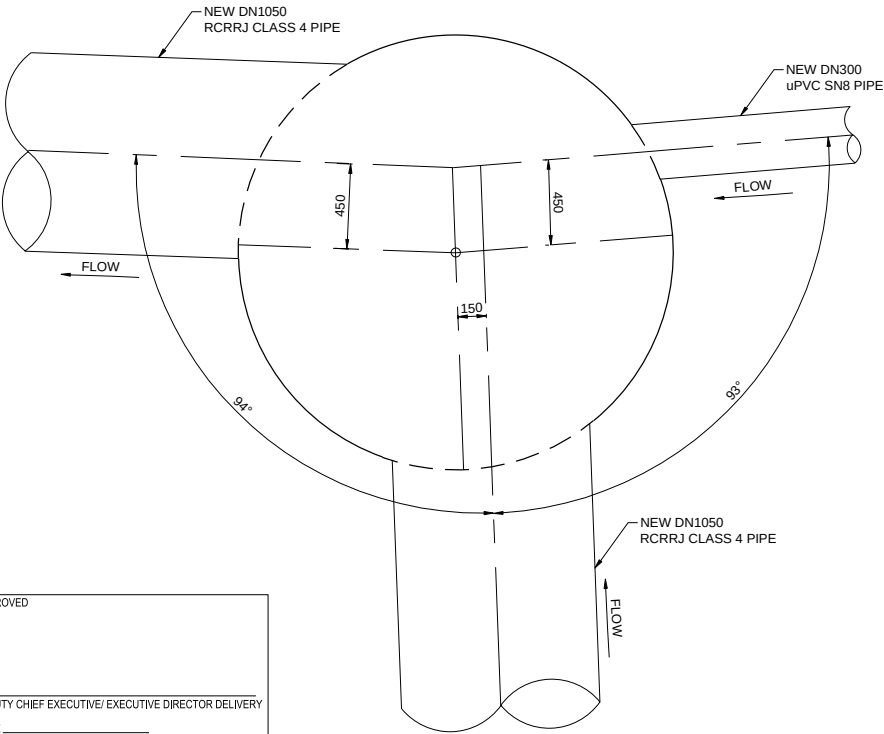
MH1 SCHEMATIC - DN2050
SCALE (A1) 1:20
SCALE (A3) 1:40



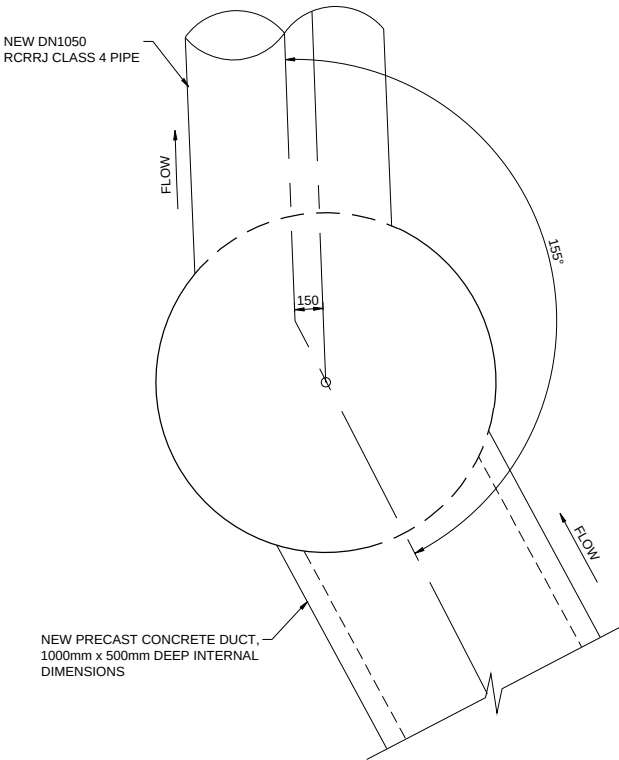
MH2 SCHEMATIC - DN2050
SCALE (A1) 1:20
SCALE (A3) 1:40



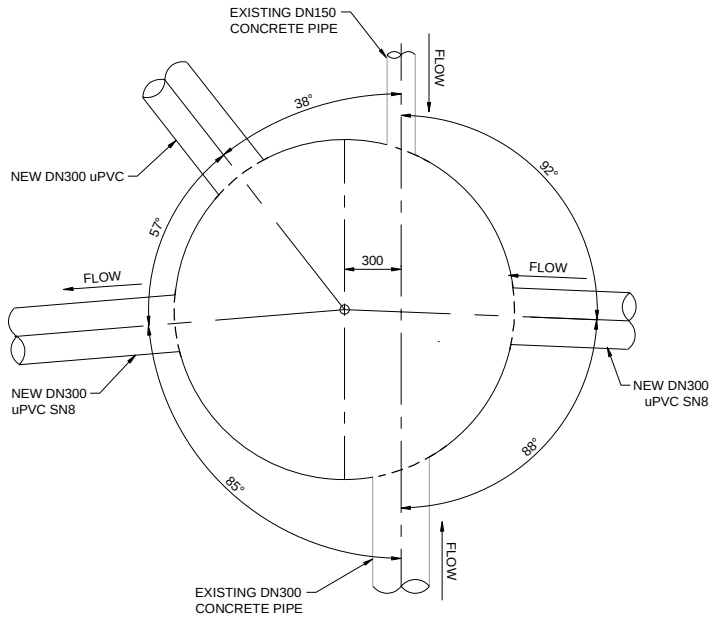
MH3 SCHEMATIC - DN2050
SCALE (A1) 1:20
SCALE (A3) 1:40



MH4 SCHEMATIC - DN2300
SCALE (A1) 1:20
SCALE (A3) 1:40



MH5 SCHEMATIC - DN1500
SCALE (A1) 1:20
SCALE (A3) 1:40



MH6 SCHEMATIC - DN1800
SCALE (A1) 1:20
SCALE (A3) 1:40



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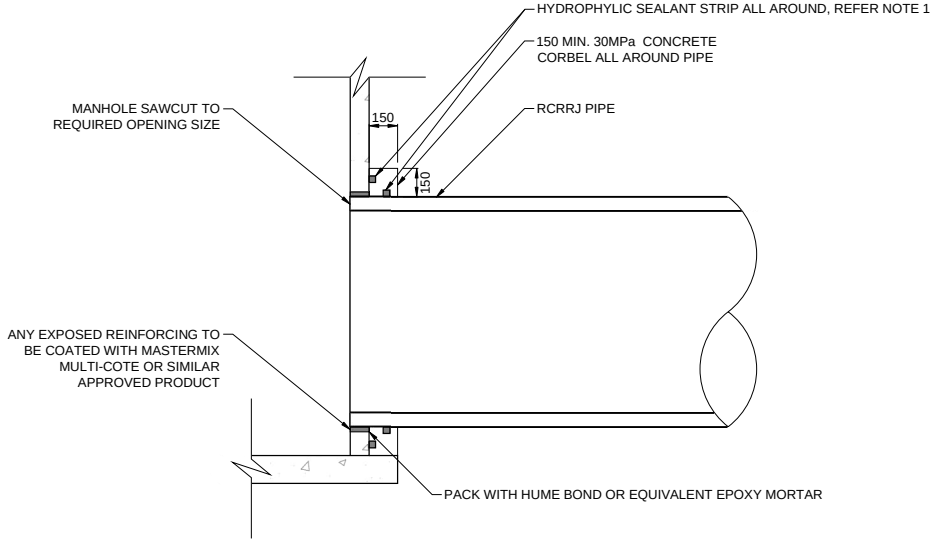
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					DRAWN	HEWH	AUG.25	TENDER ISSUE			
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REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE	SCALE (A1) 1:20		DWG No. 1006675.5171-041	REV	A

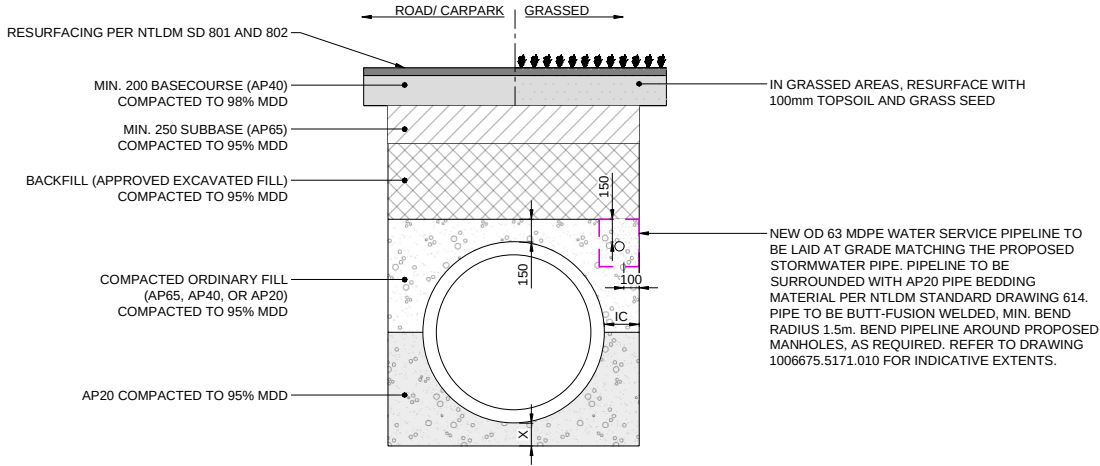
- NOTES
1.

HYDROPHYLIC SEALANT TO BE ADEKA ULTRASEAL P-201 (OR SIMILAR) WATER SWELLING ELASTIC SEALANT 10mm MIN. THICKNESS AROUND THE PIPE CURED BEFORE PLACING IN-SITU CONCRETE.
2.

THE DETAIL FOR PIPE BEDDING FOR CONCRETE PIPES HAS BEEN ADAPTED FROM THE NTLDM STANDARD DRAWING 615.



TYPICAL PIPE TO MANHOLE CONNECTION DETAIL
SCALE (A1) 1:20
SCALE (A3) 1:40



TYPICAL TRENCH - CONCRETE PIPE
NOT TO SCALE

- NOTE:
1.

FOR FLEXIBLE PIPE, REFER TO NTLDM SD 614 FOR TYPICAL TRENCH DETAIL.
2.

IC IS 150mm.
3.

X IS 100mm.
4.

UNITS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
5.

CONTRACTOR TO PROVIDE A SHORING PLAN FOR ENGINEER REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

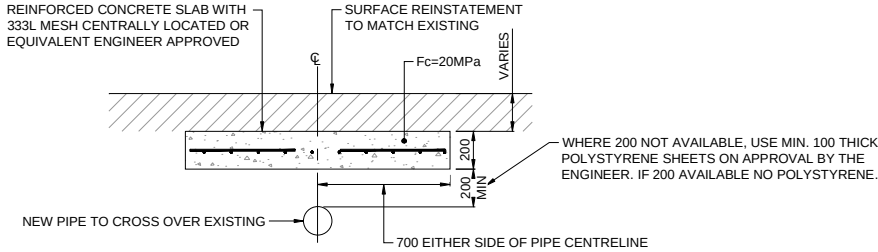
REPLACE EXISTING DN150 WASTEWATER PIPE WITH DN150 uPVC SN16, LENGTH AS REQUIRED, IN ORDER TO SUPPORT THE WASTEWATER PIPE DURING CONSTRUCTION OF THE STORMWATER PIPE. CONNECT TO EXISTING WASTEWATER PIPE WITH A SHEAR BAND COUPLER WITH STAINLESS STEEL BAND (FERNCO SHEAR BAND COUPLER OR APPROVED EQUIVALENT). REFER TO NTLDM SD 614 FOR PIPE SUPPORT AND OVERLAY REQUIREMENTS. CONTRACTOR TO PROVIDE A WASTEWATER BYPASS PLAN FOR ENGINEER REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

SURFACE REINSTATEMENT TO MATCH EXISTING PER NTLDM SD 801, UNLESS OTHERWISE NOTED

MIN. 50 SEPARATION REQUIRED. WHERE THERE IS LESS THAN 200 SEPARATION, USE POLYSTYRENE SHEETING BETWEEN PIPES.

REFER TO TYPICAL TRENCH DETAIL DRAWING FOR CONCRETE PIPE BEDDING REQUIREMENTS

WASTEWATER CROSSING DETAIL
SCALE (A1) 1:20
SCALE (A3) 1:40



TYPICAL CONCRETE CAP DETAIL
SCALE (A1) 1:20
SCALE (A3) 1:40

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A	FOR TENDER ISSUE	HOTI	OLWH	30.06.26	DESIGNED	JALE	AUG.25	DRAWING STATUS	CLIENT	NELSON CITY COUNCIL				
					DRAWN	HEWH	AUG.25	TENDER ISSUE	PROJECT	QUEEN'S GARDENS STORMWATER UPGRADE				
					DESIGN CHECKED	OLWH	30.06.26	PROJECT PHASE	TITLE DETAILS SHEET 2 - PIPE DETAILS					
					DRAWING CHECKED	WYHU	29.06.26	TENDER						
					NOT FOR CONSTRUCTION				THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED					
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE			SCALE (A1)	1:20	DWG No.	1006675.5171-042	REV	A

- ROCK PLACEMENT
1.

ENSURE THE GEOTEXTILE FABRIC IS PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION OF THE FABRIC AND THE ROCK. REPAIR ANY DAMAGE BY REMOVING THE ROCK AND REPLACING WITH ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA OVERLAPPING THE EXISTING FABRIC A MINIMUM 300mm.
2.

PLACEMENT OF ROCK SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER LAYER. PLACE ROCK SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS.
3.

PLACE ROCK TO ITS FULL THICKNESS IN ONE OPERATION. DO NOT PLACE ROCKS BY DUMPING THROUGH DELIVERY CHUTES OR OTHER METHODS THAT MAY CAUSE SEGREGATION OF ROCK SIZES.
4.

THE FINISHED SURFACE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTER OF LARGE ROCKS. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF ROCK SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE.
5.

RIP RAP IS TO BE FREE OF CONTAMINANTS AND SEDIMENT.

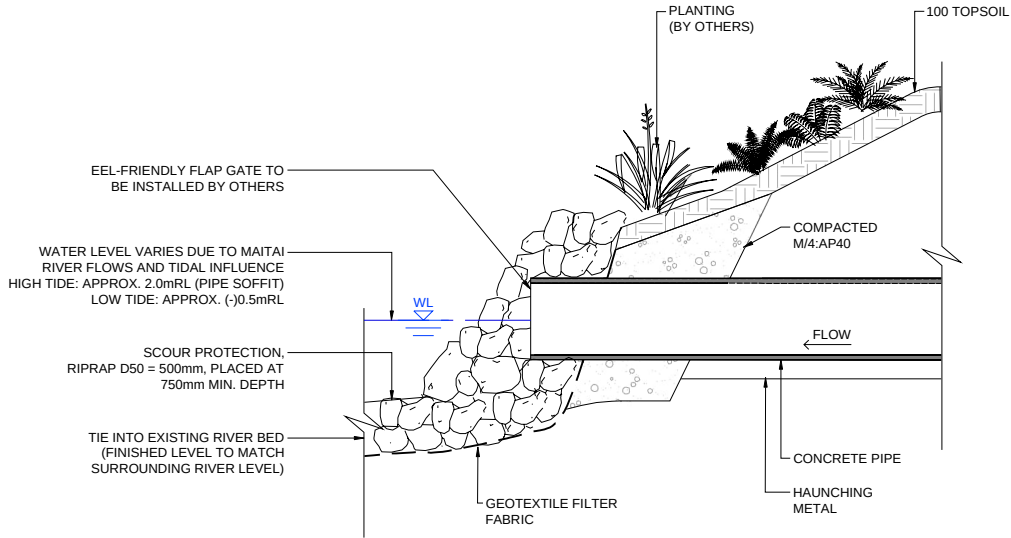
- FILTER FABRIC
1.

300mm MINIMUM OVERLAP ON FILTER FABRIC JOINTS.
2.

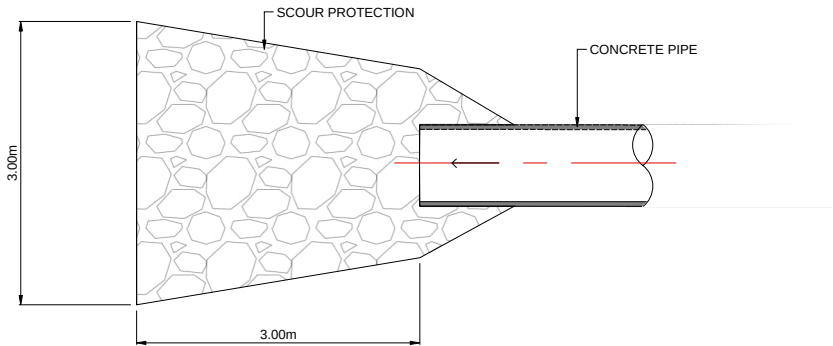
PIN ALL POINTS.
3.

LAY UPSTREAM LAYER ABOVE DOWNSTREAM LAYER.
4.

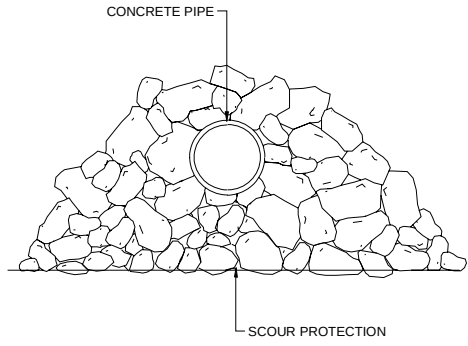
USE BIDIM A39, UNLESS OTHERWISE APPROVED.



OUTLET AT MAITAI RIVER
SCALE (A1) NTS
SCALE (A3) NTS



PLAN VIEW
SCALE (A1) NTS
SCALE (A3) NTS

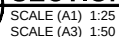
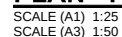


END VIEW
SCALE (A1) NTS
SCALE (A3) NTS

 Nelson City Council te kaunihera o whakatū	APPROVED
	DEPUTY CHIEF EXECUTIVE/ EXECUTIVE DIRECTOR DELIVERY
	DATE _____
INFRASTRUCTURE	
NCC Plan No.	26-0881
Project ID No.	3981

A	FOR TENDER ISSUE	HOTI	OLWH	30.06.26	DESIGNED	JALE	AUG.25	DRAWING STATUS	CLIENT NELSON CITY COUNCIL PROJECT QUEEN'S GARDENS STORMWATER UPGRADE TITLE DETAILS SHEET 3 - OUTLET DETAILS SCALE (A1) AS SHOWN DWG No. 1006675.5171-043 REV A
					DRAWN	HEWH	AUG.25	TENDER ISSUE	
					DESIGN CHECKED	OLWH	30.06.26	PROJECT PHASE	
					DRAWING CHECKED	WYHU	29.06.26	TENDER	
					NOT FOR CONSTRUCTION				
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE			

1. HYDROPHYLIC SEALANT TO BE ADEKA ULTRASEAL P-201 (OR SIMILAR) WATER SWELLING ELASTIC SEALANT 10mm MIN. THICKNESS AROUND THE PIPE CURED BEFORE PLACING IN-SITU CONCRETE.



1. HYDROPHYLIC SEALANT TO BE ADEKA ULTRASEAL P-201 (OR SIMILAR) WATER SWELLING ELASTIC SEALANT 10mm MIN. THICKNESS AROUND THE PIPE CURED BEFORE PLACING IN-SITU CONCRETE.



SCALE (A1) 1:20
SCALE (A3) 1:40



SCALE (A1) 1:20
SCALE (A3) 1:40



044 SCALE (A1) 1:20
SCALE (A3) 1:40

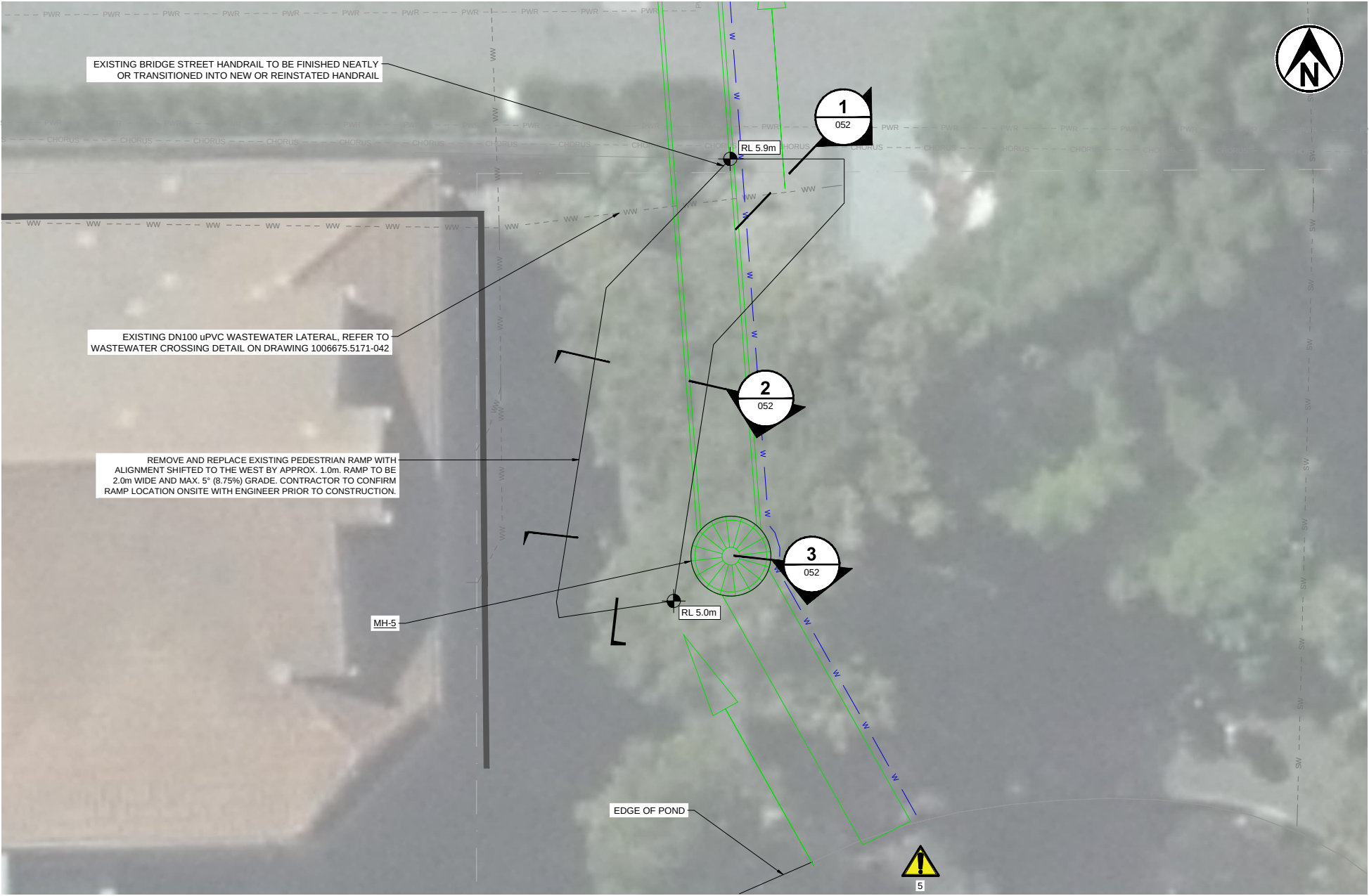


044 SCALE (A1) 1:10
SCALE (A3) 1:20

Figure 1 illustrates the two-step process of the A3 test. The top part shows a 0.5m scale with a 0.25m segment labeled 'm' and a 0.25m segment labeled 'A3'. The bottom part shows a 1m scale with a 0.5m segment labeled 'm' and a 0.5m segment labeled 'A3'. The A3 segment is further divided into two 0.25m segments, each labeled 'A1'.

NOTES

1. REFER DRAWING 1006675.5171 FOR NOTES AND LEGENDS.



PLAN
SCALE (A1) 1:50
SCALE (A3) 1:100

 Nelson City Council <i>te kaunihara o whakatū</i> INFRASTRUCTURE	APPROVED
	DEPUTY CHIEF EXECUTIVE/ EXECUTIVE DIRECTOR DELIVERY
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					DRAWN	HEWH	AUG.25	TENDER ISSUE			
					DESIGN CHECKED	OLWH	30.06.26	PROJECT PHASE			
					DRAWING CHECKED	WYHU	29.06.26	TENDER			
					NOT FOR CONSTRUCTION				THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	PROJECT QUEEN'S GARDENS STORMWATER UPGRADE	
									TITLE PEDESTRIAN RAMP PLAN		
									SCALE (A1) 1:50	DWG No. 1006675.5171-051	REV A

STRUCTURAL NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH NZS 3109:1997 AND OTHER RELEVANT CODES.
3. CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 30MPa AT 28 DAYS.
4. EXPOSURE CLASSIFICATION B1, MINIMUM CONCRETE CURING SHALL BE 3 DAYS.
5. ALL REINFORCEMENT TO COMPLY WITH AS/NZS 4671 GRADE 500E FOR HD AND HR BARS, AND 300E FOR R BARS AND MESH GRADE 500E TO AS/NZS 4671 (500MPa).
6. CLEAR COVER TO ALL BARS INCLUDING BARS, STIRRUP, TIES ETC. IS 75mm WHEN BEING CAST AGAINST THE GROUND AND/OR 50mm ELSEWHERE, UNLESS OTHERWISE NOTED IN THE DRAWINGS.
7. ALL HOOKS ON STIRRUPS AND TIES ARE TO FIT CLOSELY AROUND BARS.
8. ALL BENDING OF REINFORCEMENT SHALL COMPLY TO NZS 3101 AND NZS 3109.
9. THE MINIMUM LAP LENGTH SHALL BE:

a. SE815 - 200mm
10. CONTRACTOR TO LOCATE AND PROTECT ALL UNDERGROUND SERVICES PRIOR TO CONSTRUCTION OF RAMP.
11. HANDRAILS SHALL BE EITHER:

a. EXISTING HANDRAILS REUSED BY THE CONTRACTOR AND CAST INTO THE CONCRETE RAMP WITH REINFORCEMENT SETOUT TO AVOID CLASH WITH HANDRAIL POST, OR

b. NEW HANDRAILS IN ACCORDANCE WITH NELSON TASMAN LAND DEVELOPMENT MANUAL DETAILS 420, 421, AND 423 (BASE PLATE BOTTOM) . (PROVISIONAL ITEM)

DESIGN LOADINGS

1. THE STRUCTURE HAS BEEN DESIGNED BASED ON THE FOLLOWING:
- DESIGN LIFE

IMPORTANCE LEVEL

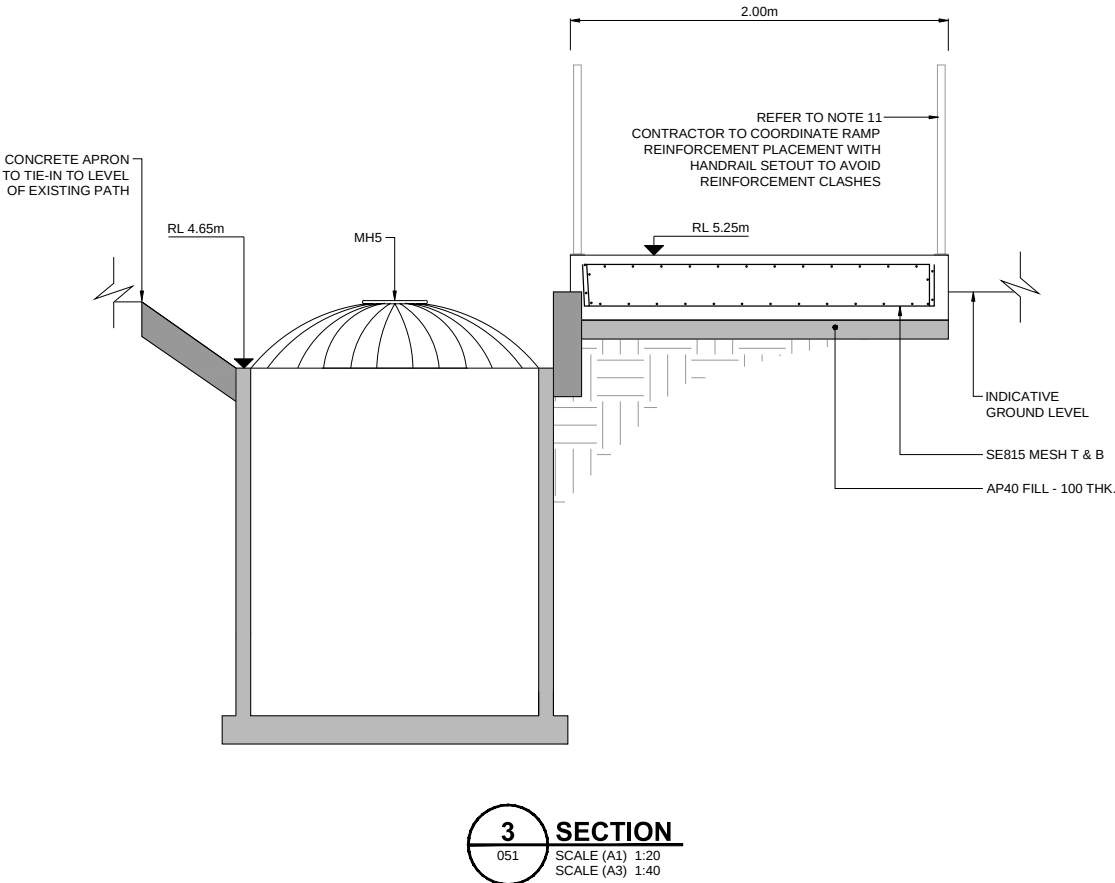
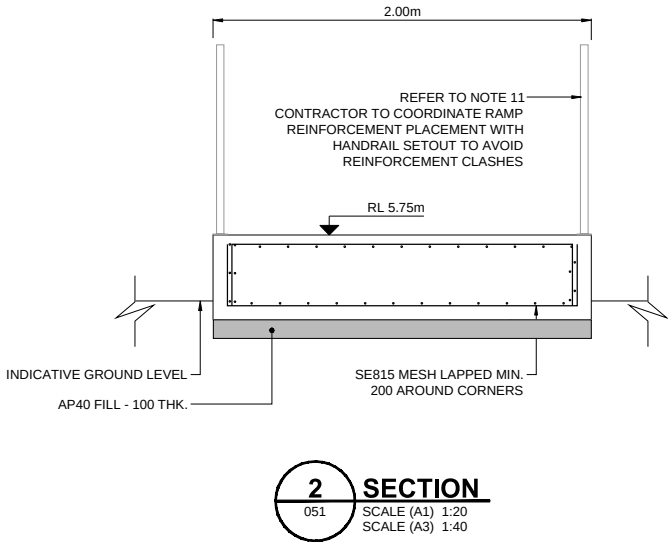
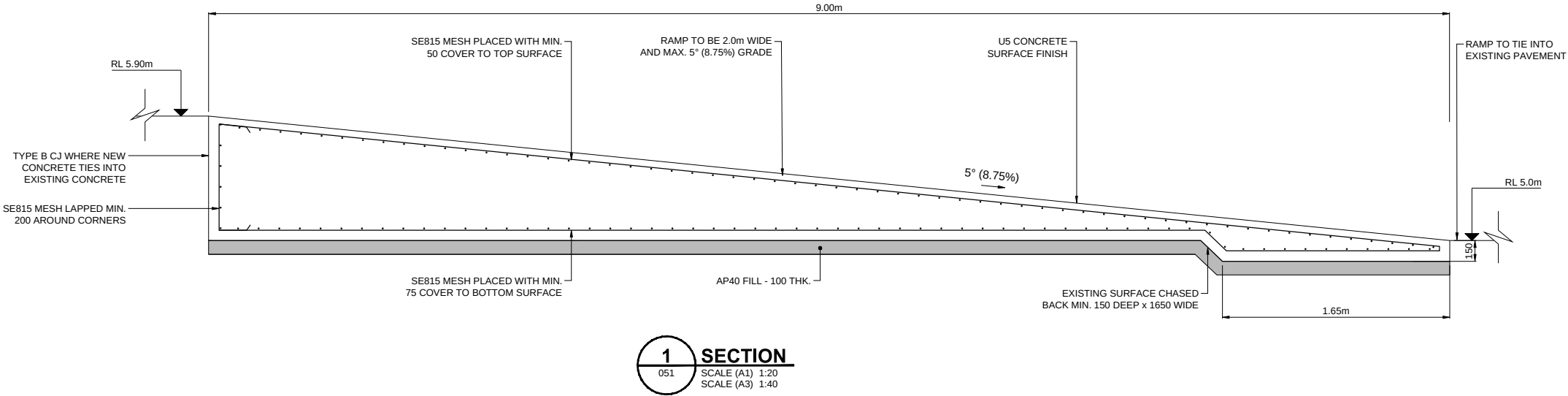
EXPOSURE CLASSIFICATION

LIVE LOAD
- 50 YEARS

- 2

- B1

- 5 kPa UNIFORMLY DISTRIBUTED LOAD OR CONCENTRATED LOAD OF 4.5 kN APPLIED IN ACCORDANCE WITH AS / NZS 1170.1, TABLE 3.1 FOR AREAS WHERE PEOPLE MAY CONGREGATE, OCCUPANCY CATEGORY C3



Nelson City Council te kaunihara o whakatū INFRASTRUCTURE	APPROVED
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A	FOR TENDER ISSUE	HOTI	OLWH	30.06.26	DESIGNED	JALE	AUG.25	DRAWING STATUS	CLIENT NELSON CITY COUNCIL			
					DRAWN	HEWH	AUG.25	TENDER ISSUE				
					DESIGN CHECKED	OLWH	30.06.26	PROJECT PHASE				
					DRAWING CHECKED	WYHU	29.06.26	TENDER				
					NOT FOR CONSTRUCTION				TITLE PEDESTRIAN RAMP SECTIONS			
					THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED							
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED		DATE	SCALE (A1) 1:20		DWG No. 1006675.5171-052	REV	A