



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837/SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
 5. LOCATION OF TELECOM AND POWER INDICATIVE ONLY. FINAL DESIGN TO BE COMPLETED BY CHORUS AND UNISON.

LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
---	EX PUBLIC WW
---	PR PUBLIC WW
---	PR PRIVATE WW
---	PR WW RISING MAIN
---	EX STORMWATER
---	PR PUBLIC STORMWATER
---	EX/PROP SWMH
---	PROP SWCP
---	EX/PROP WWMH
---	PROP WATER MAIN
---	EX WATER MAIN
---	EX TELECOM
---	PROP TELECOM
---	PROP POWER
---	EX OVERHEAD POWER
---	EX OHP REMOVED
---	PROP STREET LIGHT
---	PROP PWR POLE
---	EX PWR POLE REMOVED
---	PROP PWR CHAMBER
---	PROP PWR PLINTH
---	PROP PWR RMU
---	PROP TRANSFORMER
---	PROP PWR PILAR
---	PROP TELECOM PLINTH
---	PROP TELECOM CHAMBER
---	PR WETLAND
---	PR WW PUMP STATION
---	PR RAIN GARDEN
---	PR TREE
---	PR BIN LOCATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
ALL SERVICES
PLAN**

Project no.	135041
Scale	1:3000 @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-0
Rev	A



FOR INFORMATION



NOTES

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Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-1
Rev	A

FOR INFORMATION

DATE: 7/20/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C700 ALL SERVICES.DWG



LOT 21 DP 3449

WATERCOURSE 1

ROAD 1

ROAD 5

ROAD 6

PROPOSED
TRANSFORMER

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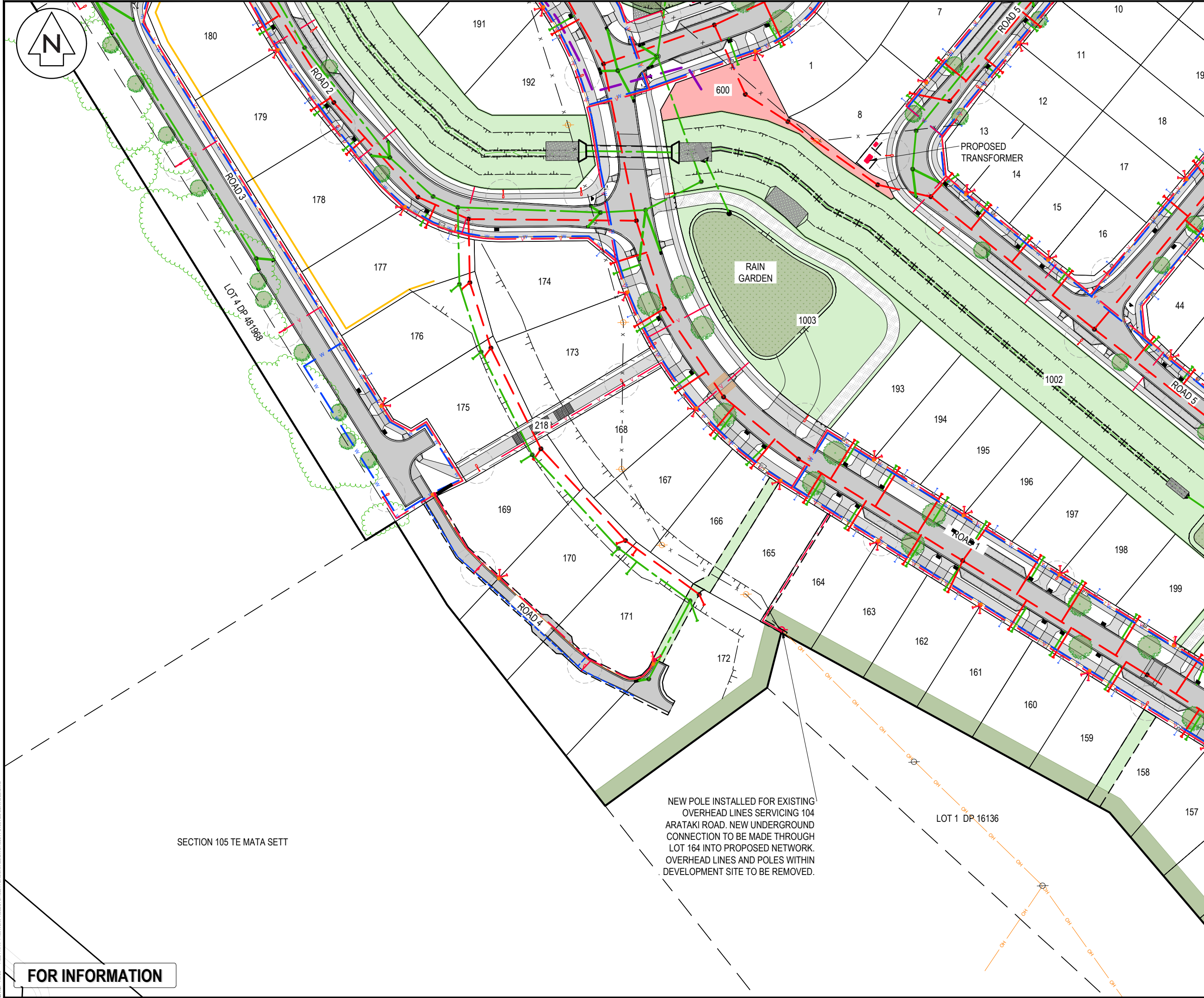
A	SUBSTANTIVE APPLICATION	RH	06/2026
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Title
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Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-2
Rev	A



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PLAN**

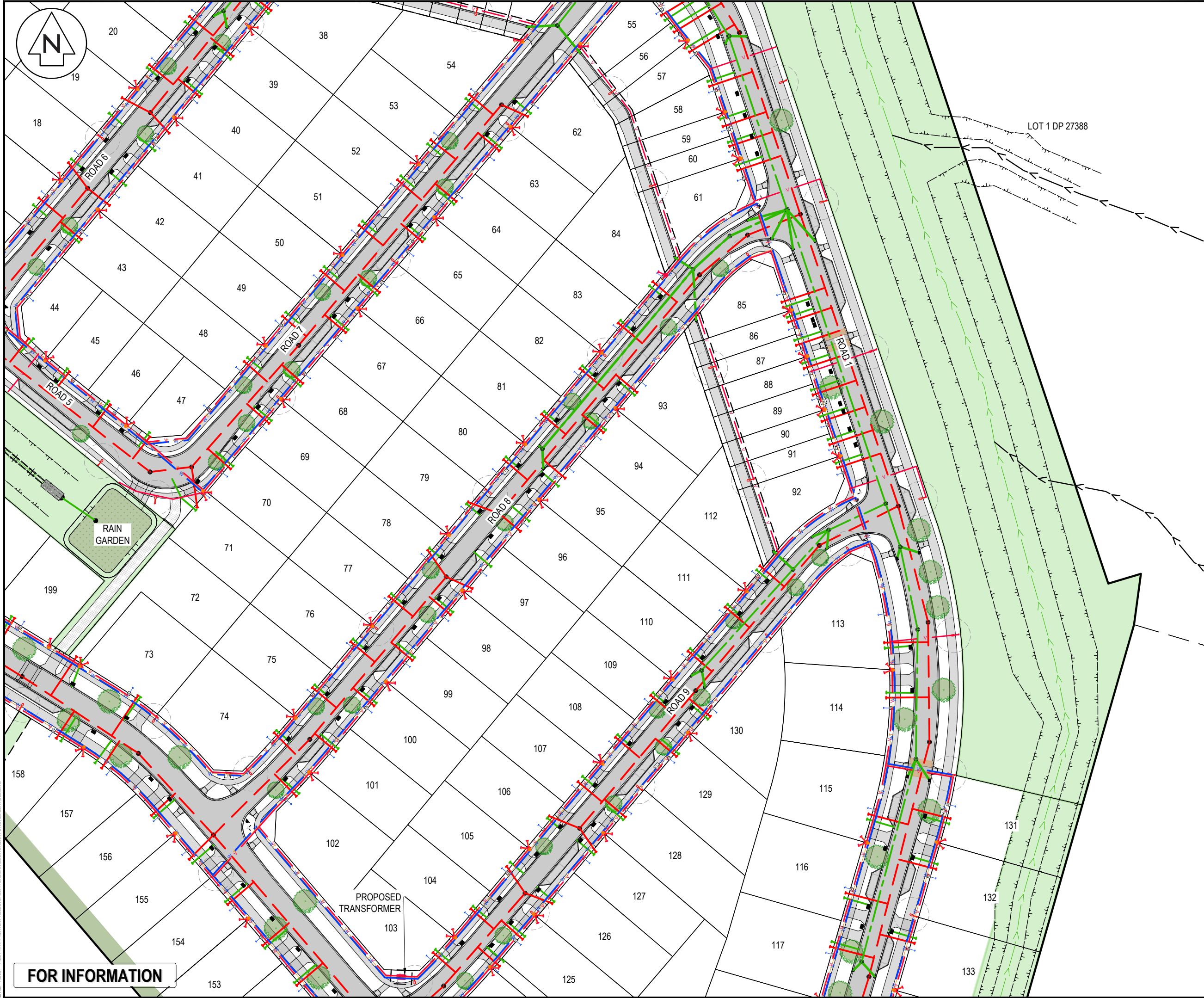
Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-3
Rev	A

NEW POLE INSTALLED FOR EXISTING OVERHEAD LINES SERVICING 104 ARATAKI ROAD. NEW UNDERGROUND CONNECTION TO BE MADE THROUGH LOT 164 INTO PROPOSED NETWORK. OVERHEAD LINES AND POLES WITHIN DEVELOPMENT SITE TO BE REMOVED.

SECTION 105 TE MATA SETT

FOR INFORMATION

DATE: 7/2/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\03041-C700 ALL SERVICES.DWG



FOR INFORMATION

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Project

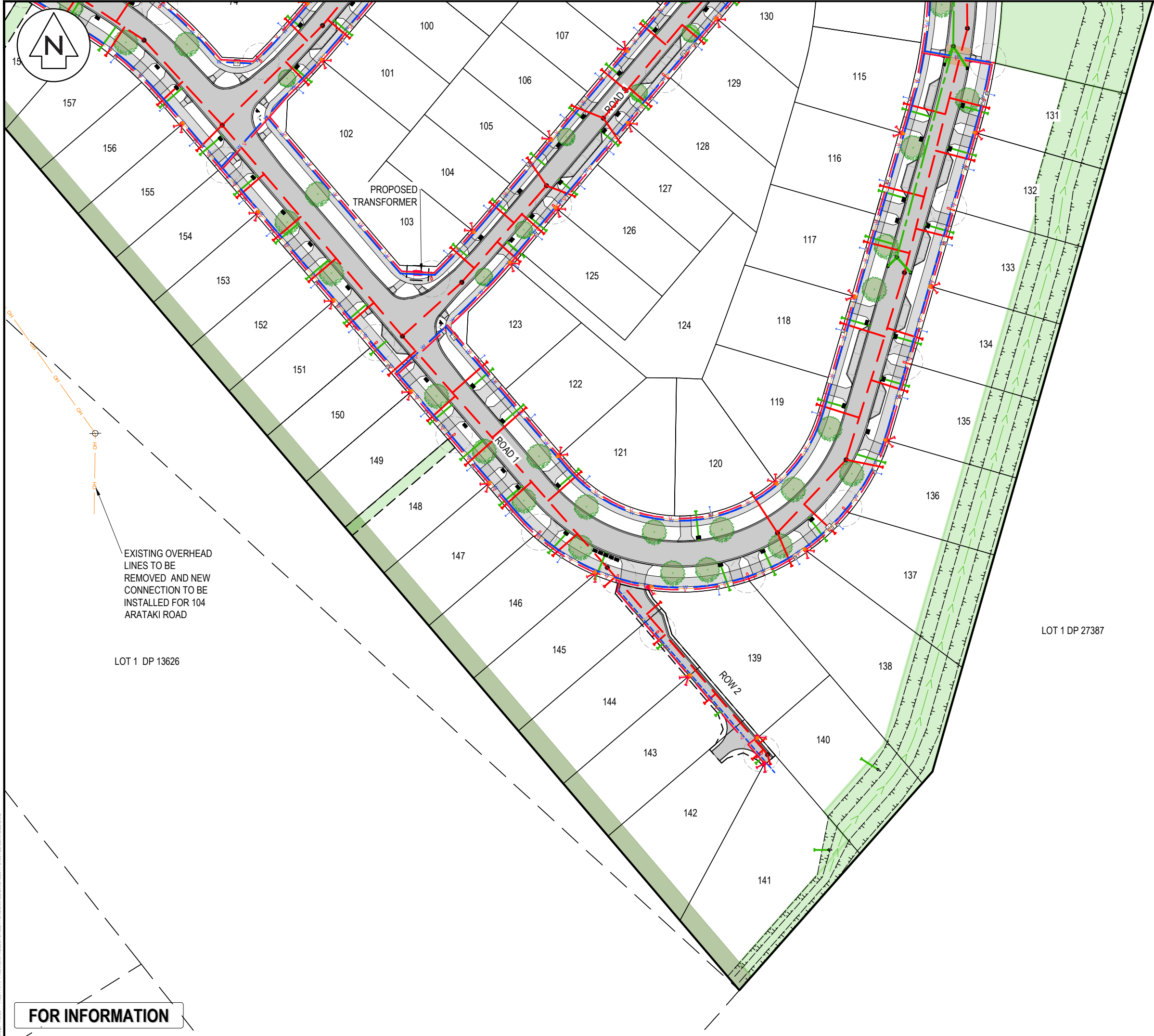
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
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PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
ALL SERVICES
PLAN**

Project no.	135041		
Scale	1:1 ORIG @ A3		
Cad file	135041-C700 ALL SERVICES.DWG		
Drawing no.	C700-4	Rev	A

DATE: 7/20/26 FILEPATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C700 ALL SERVICES.DWG



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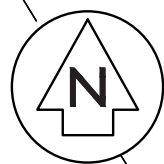
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**BROOKVALE GREEN
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Title
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Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-5
Rev	A

FOR INFORMATION



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LEGEND

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EX STORMWATER
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EX/PROP SWMH
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EX/PROP WWMH
PROP WATER MAIN
EX WATER MAIN
EX TELECOM
PROP TELECOM
PROP POWER
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A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
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Survey	TECH SP		02/2025
Design	RH		06/2026
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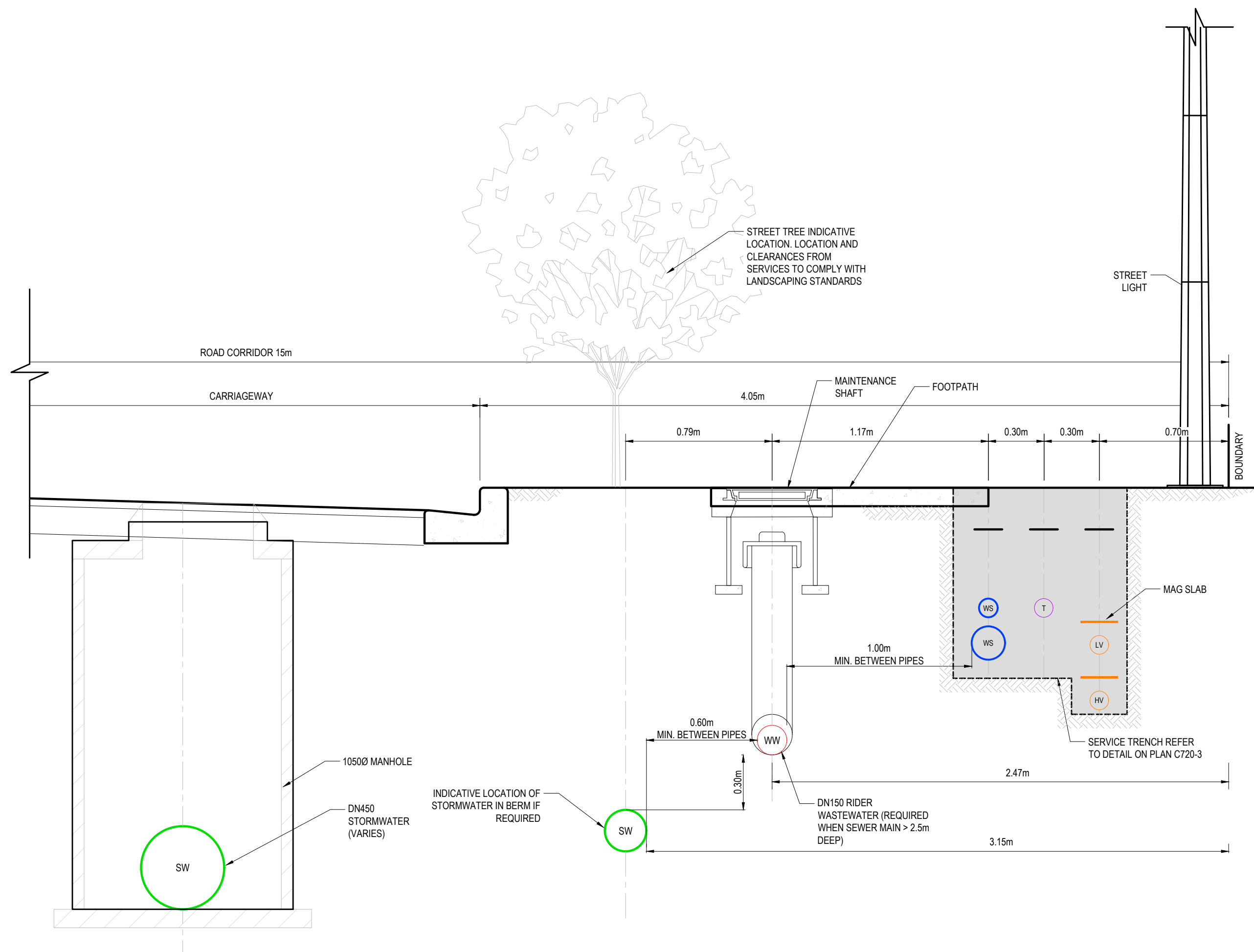


Project
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Title
**PROPOSED
ALL SERVICES
PLAN**

Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C700 ALL SERVICES.DWG
Drawing no.	C700-6
Rev	A

FOR INFORMATION



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
3. MINIMUM COVER SHALL BE: (TO BE CONFIRMED WITH APPROPRIATE UTILITY COMPANY)
WASTEWATER
 - PRIVATE RESIDENTIAL PROPERTY/PUBLIC LAND - 375mm (NO VEHICLE LOADING)
 - PRIVATE RESIDENTIAL PROPERTY - 600mm (SUBJECT TO VEHICLE LOADING)
 - ROAD RESERVE (BERMS AND FOOTPATH) - 600mm
 - SEALED CARRIAGEWAYS (<1000VPD) - 750mm
 - SEALED CARRIAGEWAYS (>1000VPD) - 900mmSTORMWATER
 - WITHIN THE ROAD - 750mm
 - WITHIN THE BERM - 600mmWATER MAINS
 - BERMS - RIDERMAIN 600mm MIN.
 - WATERMAIN 750mm MIN.
 - ROADS - 800mm MIN.
 - TRUNK MAINS - 1000mm MIN.POWER SUPPLY
 - LOW VOLTAGE - 800mm
 - HIGH VOLTAGE - 1100mm

NOTE POWER DUCTS UNDER CARRIAGEWAY

- LV - 1100mm
- HV 1300mm

TELECOMMUNICATIONS - 600mm

4. UTILITY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDERS SPECIFICATION.
5. SERVICE TRENCHES UNDER ROADS, ACCESSWAYS AND PATHS SHALL BE HARDFILLED BACKFILLED AND COMPACTED IN 200MM LAYERS.
6. WORK AREAS SHALL BE REINSTATED TO AN EQUAL STANDARD BEFORE WORK STARTED.
7. UTILITY SERVICES SHALL MAINTAIN MINIMUM CLEARANCES TO STORMWATER AND WASTEWATER ASSETS.

LEGEND

LV	LOW VOLTAGE POWER
HV	HIGH VOLTAGE POWER
T	TELECOMMUNICATIONS
WW	WASTEWATER
WS	WATER SUPPLY
SW	STORMWATER

A	SUBSTANTIVE APPLICATION	RH	05/2026
Rev	Description	By	Date
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Survey	-	-	
Design	RH	05/2026	
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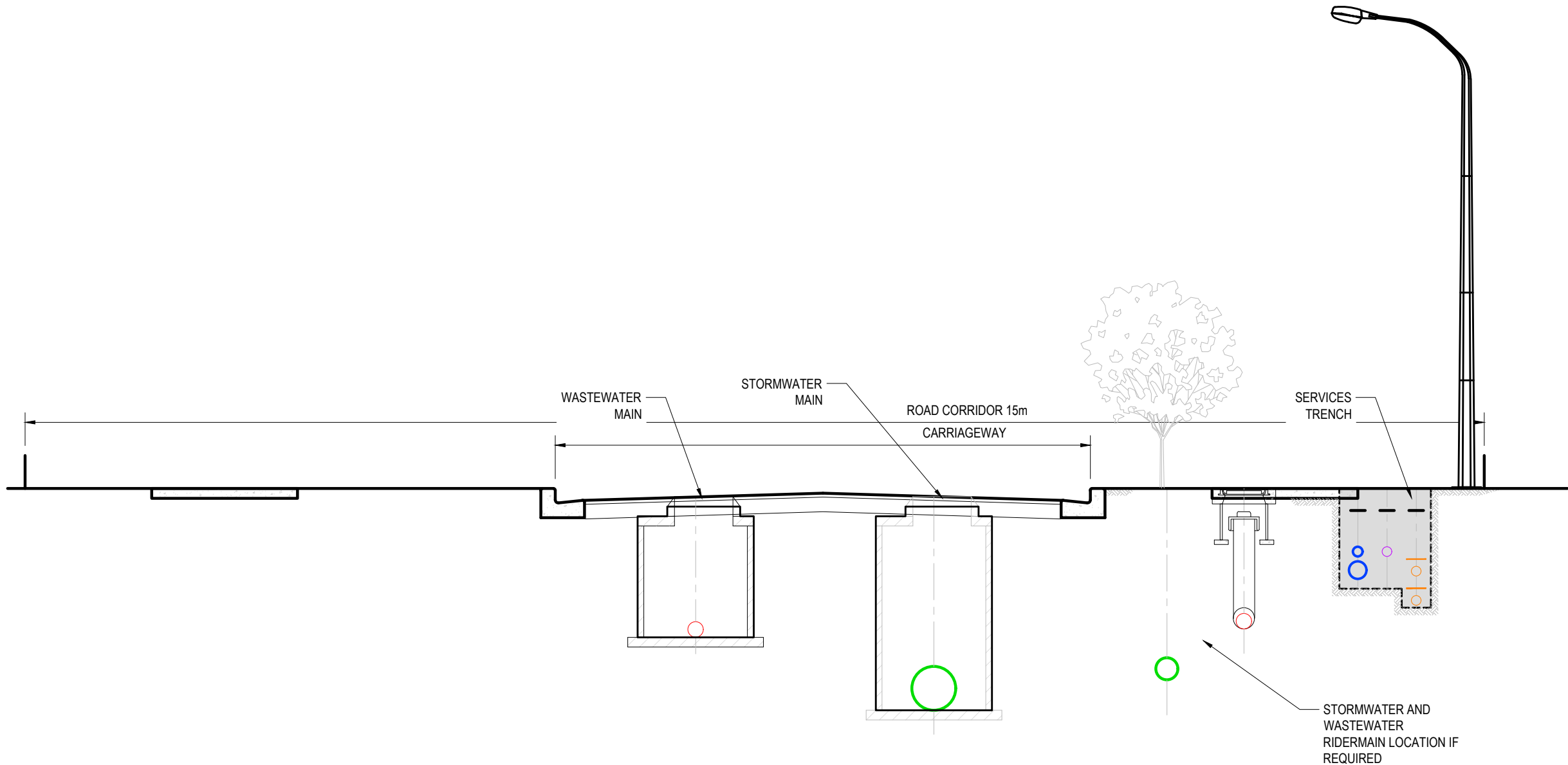


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Project
**BROOKVALE GREEN
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PARTNERS NO. 4 LIMITED**

Title	TYPICAL SERVICES MINIMUM CLEARANCES DETAIL
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Project no.	135041		
Scale	1:20 @ A3		
Cad file	135041-C720 TYPICAL TRENCH DETAILS.DWG		
Drawing no.	C720-1	Rev	A



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 - SEALED CARRIAGEWAYS (<1000VPD) - 750mm
 - SEALED CARRIAGEWAYS (>1000VPD) - 900mm
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 - WITHIN THE ROAD - 750mm
 - WITHIN THE BERM - 600mm
 - WATER MAINS
 - BERMS - RIDERMAIN 600mm MIN.
 - WATERMAIN 750mm MIN.
 - ROADS - 800mm MIN.
 - TRUNK MAINS - 1000mm MIN.
 - POWER SUPPLY
 - LOW VOLTAGE - 800mm
 - HIGH VOLTAGE - 1100mm
- NOTE POWER DUCTS UNDER CARRIAGEWAY
- LV - 1100mm
 - HV 1300mm
 - TELECOMMUNICATIONS - 600mm
4. UTILITY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDERS SPECIFICATION.
 5. SERVICE TRENCHES UNDER ROADS, ACCESSWAYS AND PATHS SHALL BE HARDFILLED BACKFILLED AND COMPACTED IN 200MM LAYERS.
 6. WORK AREAS SHALL BE REINSTATED TO AN EQUAL STANDARD BEFORE WORK STARTED.
 7. UTILITY SERVICES SHALL MAINTAIN MINIMUM CLEARANCES TO STORMWATER AND WASTEWATER ASSETS.

LEGEND	
	LOW VOLTAGE POWER
	HIGH VOLTAGE POWER
	TELECOMMUNICATIONS
	WASTEWATER
	WATER SUPPLY
	STORMWATER

A	SUBSTANTIVE APPLICATION	RH	05/2026
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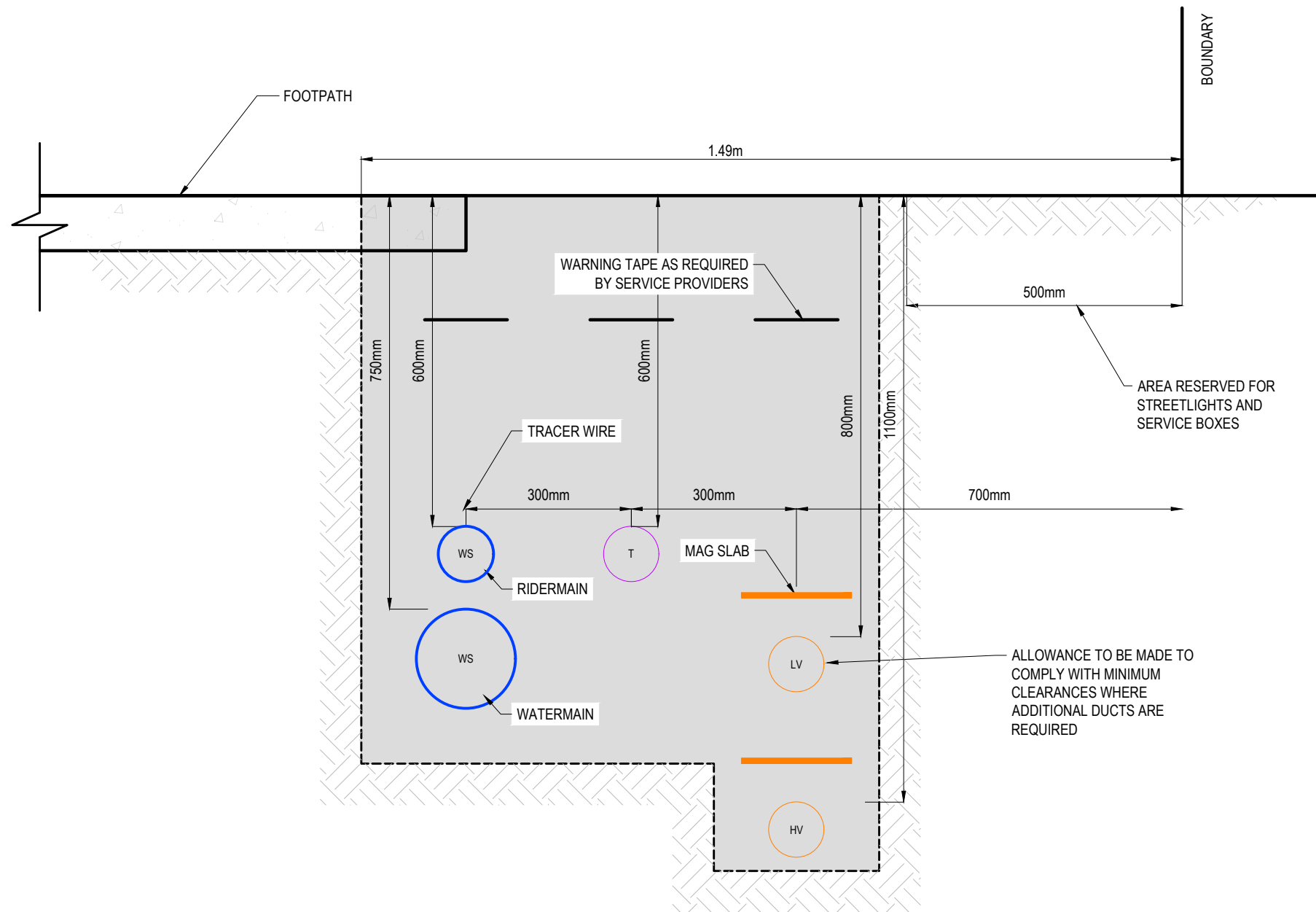
**BROOKVALE GREEN
HAVELOCK NORTH
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Title

**TYPICAL SERVICES
LAYOUT
DETAIL**

Project no.	135041		
Scale	1:50 @ A3		
Cad file	135041-C720 TYPICAL TRENCH DETAILS.DWG		
Drawing no.	C720-2	Rev	A

RESOURCE CONSENT



SERVICES TRENCH TYPICAL DETAIL
SCALE 1:10

- NOTES
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 - SEALED CARRIAGEWAYS (>1000VPD) - 900mm
 - STORMWATER
 - WITHIN THE ROAD - 750mm
 - WITHIN THE BERM - 600mm
 - WATER MAINS
 - BERMS - RIDERMAIN 600mm MIN.
 - WATERMAIN 750mm MIN.
 - ROADS - 800mm MIN.
 - TRUNK MAINS - 1000mm MIN.
- POWER SUPPLY
- LOW VOLTAGE - 800mm
 - HIGH VOLTAGE - 1100mm
- NOTE POWER DUCTS UNDER CARRIAGEWAY
- LV - 1100mm
 - HV 1300mm
- TELECOMMUNICATIONS - 600mm
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HV	HIGH VOLTAGE POWER
T	TELECOMMUNICATIONS
WW	WASTEWATER
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SW	STORMWATER

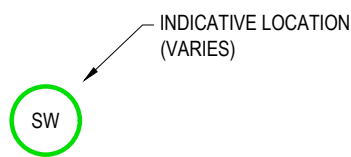
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Title
**PROPOSED TYPICAL
SERVICES TRENCH**

Project no.	135041		
Scale	1:250 @ A3		
Cad file	135041-C720 TYPICAL TRENCH DETAILS.DWG		
Drawing no.	C720-3	Rev	A



DATE: 5/21/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C720 TYPICAL TRENCH DETAILS.DWG

- LEGEND
- | | |
|----|--------------------|
| LV | LOW VOLTAGE POWER |
| HV | HIGH VOLTAGE POWER |
| T | TELECOMMUNICATIONS |
| WW | WASTEWATER |
| WS | WATER SUPPLY |
| SW | STORMWATER |

A	SUBSTANTIVE APPLICATION	RH	05/2026
Rev	Description	By	Date
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Survey	-	-	
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
SERVICES TRENCH
TYPICAL DETAIL**

Project no.	135041		
Scale	1:250 @ A3		
Cad file	135041-C720 TYPICAL TRENCH DETAILS.DWG		
Drawing no.	C720-4	Rev	A

DATE: 5/21/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE.DWG\135041-C720 TYPICAL TRENCH DETAILS.DWG

TABLE D3 - CLEARANCE BETWEEN STORMWATER AND UNDERGROUND SERVICES

UTILITY (EXISTING SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm) (FIG. 6.1 'X')		MINIMUM VERTICAL CLEARANCE (mm) (FIG 6.1 'Y')
	PROPOSED STORMWATER PIPE DIAMETER		
	< DN300	> DN300	
SEWERS < DN300	300	600	150
SEWERS > DN300	600	600	300
LOW PRESSURE GAS	300	600	300
TELECOMMUNICATIONS	500	600	300
ELECTRICITY	300	1000	300
KERBS	300	600	150
WATER MAINS	600	600	500

NOTE -

1. MINIMUM VERTICAL SEPARATION BETWEEN WASTEWATER PIPE AND OTHER SERVICES.

2. A MINIMUM VERTICAL CLEARANCE OF 300mm APPLIES IF THE SIZE OF EITHER THE EXISTING SERVICE OR PROPOSED PIPE IS >DN 300.

3. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DESTABILIZED IN THE PROCESS.

4. CLEARANCE FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB.

5. A SMALLER CLEARANCE CAN BE ACCEPTED IF THE UPPER PIPE IS SUITABLY SUPPORTED ON A PEDESTAL EITHER SIDE OF THE LOWER SERVICE PIPE.

SEE THE HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE - SECTION 4: WASTEWATER AND SCHEDULE D FOR FURTHER DETAILS.

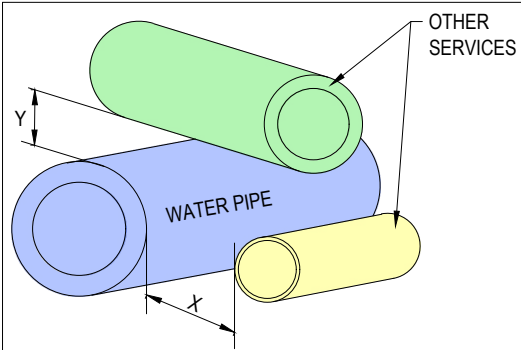


FIGURE 6.1 SERVICE CLEARANCE MEASUREMENT

TABLE E3 - CLEARANCES BETWEEN WASTEWATER PIPES AND UNDERGROUND SERVICES

UTILITY (EXISTING SERVICE)	MINIMUM HORIZONTAL (FIG. 6.1 'X') CLEARANCE FOR NEW PIPE SIZE ≤ DN300 (mm)	MINIMUM HORIZONTAL (FIG. 6.1 'X') CLEARANCE FOR NEW PIPE SIZE >DN300 (mm)	MINIMUM VERTICAL CLEARANCE ⁽¹⁾ (mm) (FIG 6.1 'Y')
STORMWATER PIPES <DN 300	300	600	150 ² /300
STORMWATER PIPES >DN 300	600	600	300
LOW PRESSURE GAS MAINS	300 ³	600	150 ² /300
TELECOMMUNICATION CONDUITS AND CABLES	300 ³	600	150 ² /300
ELECTRICITY CONDUITS AND CABLES	500	1000	225 ² /300
OTHER DRAINS	300 ³	600	150 ² and 4/300 ⁴
WATER MAINS	1000 ⁵ / 600	1000 ⁵ / 600	500 ⁴

NOTE -

1. MINIMUM VERTICAL SEPARATION BETWEEN WASTEWATER PIPE AND OTHER SERVICES.

2. A MINIMUM VERTICAL CLEARANCE OF 300mm APPLIES IF THE SIZE OF EITHER THE EXISTING SERVICE OR PROPOSED PIPE IS >DN 300.

3. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DESTABILIZED IN THE PROCESS.

4. CLEARANCE FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB.

5. A SMALLER CLEARANCE CAN BE ACCEPTED IF THE UPPER PIPE IS SUITABLY SUPPORTED ON A PEDESTAL EITHER SIDE OF THE LOWER SERVICE PIPE.

SEE THE HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE - SECTION 5: WASTEWATER AND SCHEDULE E FOR FURTHER DETAILS.

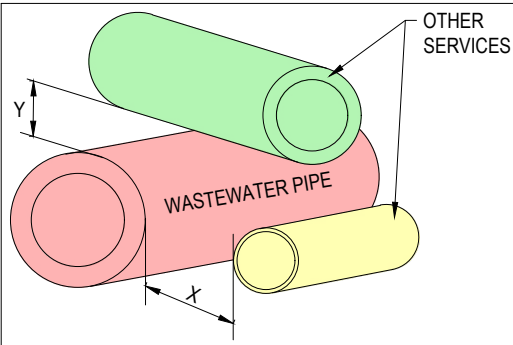


FIGURE 6.1 SERVICE CLEARANCE MEASUREMENT

NZCCPTS CABLE SEPERATION GUIDE

MINIMUM SEPARATIONS BETWEEN BURIED POWER AND TELECOMMUNICATION CABLES					
VOLTAGE AND CABLE TYPE	AT CROSSINGS		ON PARALLEL RUNS		
	WITH PROTECTION	WITHOUT PROTECTION	IN ROAD RESERVE (SEE SECTION 3 RULE (4))		SERVICE LEAD INTO HOUSE
			SEPARATION IN SHARED TRENCH (ANY DIRECTION) OR SEPARATION WHEN CABLES ARE VERTICALLY APART	SEPARATION WHEN CABLES ARE HORIZONTALLY APART (NOT IN A SHARED TRENCH)	
LV NEUTRAL SCREENED OR ARMOURED	50mm	150mm	150mm	300mm	SAME AS "IN ROAD RESERVE" EXCEPT FOR RESIDENTIAL URBAN UNDERGROUNDING PROJECTS, WHERE 0mm IS PERMITTED FOR NEUTRAL SCREENED CABLES IF THE REQUIREMENTS OF SECTION 3 RULE (3) ARE MET.
LV NOT NEUTRAL SCREENED OR ARMOURED	50mm	450mm	450mm	600mm	SAME AS "IN ROAD RESERVE"
HV	150mm	450mm	450mm (2.4km LIMIT ON LENGTH)	600mm	SAME AS "IN ROAD RESERVE"

SEE NZCCPTS CABLE SEPERATION GUIDE FOR FURTHER DETAILS

RESOURCE CONSENT

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.

2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.

3. MINIMUM COVER SHALL BE: (TO BE CONFIRMED WITH APPROPRIATE UTILITY COMPANY)

WASTEWATER

- PRIVATE RESIDENTIAL PROPERTY/PUBLIC LAND - 375mm (NO VEHICLE LOADING)
- PRIVATE RESIDENTIAL PROPERTY - 600mm (SUBJECT TO VEHICLE LOADING)
- ROAD RESERVE (BERMS AND FOOTPATH) - 600mm
- SEALED CARRIAGEWAYS (<1000VPD) - 750mm
- SEALED CARRIAGEWAYS (>1000VPD) - 900mm

STORMWATER

- WITHIN THE ROAD - 750mm
- WITHIN THE BERM - 600mm

WATER MAINS

- BERMS - RIDERMAIN 600mm MIN.
- WATERMAIN 750mm MIN.

ROADS - 800mm MIN.

TRUNK MAINS - 1000mm MIN.

POWER SUPPLY

- LOW VOLTAGE - 800mm
- HIGH VOLTAGE - 1100mm

NOTE POWER DUCTS UNDER CARRIAGEWAY

- LV - 1100mm
- HV 1300mm

TELECOMMUNICATIONS - 600mm

4. UTILITY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDERS SPECIFICATION.

5. SERVICE TRENCHES UNDER ROADS, ACCESSWAYS AND PATHS SHALL BE HARD FILLED BACK FILLED AND COMPACTED IN 200MM LAYERS.

6. WORK AREAS SHALL BE REINSTATED TO AN EQUAL STANDARD BEFORE WORK STARTED.

7. UTILITY SERVICES SHALL MAINTAIN MINIMUM CLEARANCES TO STORMWATER AND WASTEWATER ASSETS.

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**MINIMUM SERVICES
CLEARANCE
DETAILS**

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