

**NOTES:**

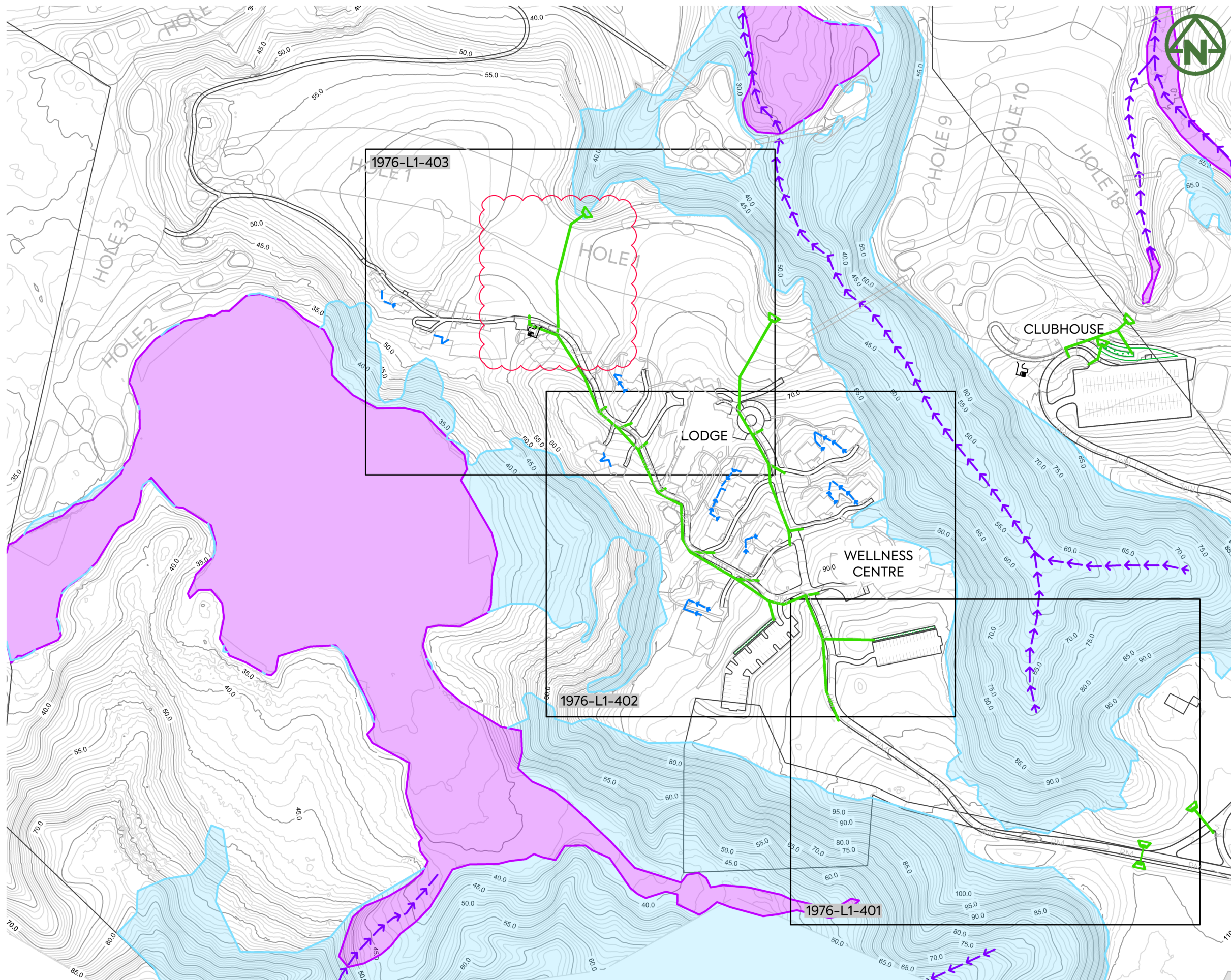
1. ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL CODE OF PRACTICE FOR LAND FOR LAND DEVELOPMENT AND SUBDIVISION CHAPTER 4-STORMWATER.
2. ALL PIPES CROSSING UNDER CARRIAGEWAY/TRAFFIC AREAS TO BE HARDFILL BACKFILLED 1.0m BEYOND THE EXTENT OF CARRIAGEWAY. ALL PIPE CROSS OVERS ARE TO BE HARDFILL BACKFILLED 1.0m EITHER SIDE OF CROSS OVER.
3. THESE DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROJECT ALL EXISTING SERVICES DURING THE CONSTRUCTION PROCESS.
4. REFER TO DRAWING 435 FOR OUTLET PROTECTION DETAILS
5. REFER TO DRAWINGS 430-433 FOR CULVERT DETAILS.
6. REFER TO DRAWINGS 450-452 FOR Q100 PRE-DEVELOPMENT CATCHMENTS.
7. REFER TO DRAWINGS 455-457 FOR Q100 POST-DEVELOPMENT CATCHMENTS.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

	<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED DRAINAGE STORMWATER NETWORK OVERALL PLAN</p>		<p>PURPOSE OF ISSUE: FOR CONSENT</p>																								
<table border="0" style="width: 100%; font-size: small;"> <tr> <td style="width: 10%;">D</td> <td style="width: 60%;">S92 RESPONSE</td> <td style="width: 10%;">MO</td> <td style="width: 10%;">CIM</td> <td style="width: 10%;">JSD</td> <td style="width: 10%;">04/03/22</td> </tr> <tr> <td>C</td> <td>ISSUED FOR CONSENT</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>26/11/21</td> </tr> <tr> <td>B</td> <td>SECOND ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>05/11/21</td> </tr> <tr> <td>A</td> <td>FIRST ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>24/08/21</td> </tr> </table>	D	S92 RESPONSE	MO	CIM	JSD	04/03/22	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	05/11/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21					<p>SCALE: 1:7500 @ A3</p> <p>DO NOT SCALE</p> <p>DRAWING NO: 1976-1-400</p> <p>REV: D</p>
D	S92 RESPONSE	MO	CIM	JSD	04/03/22																								
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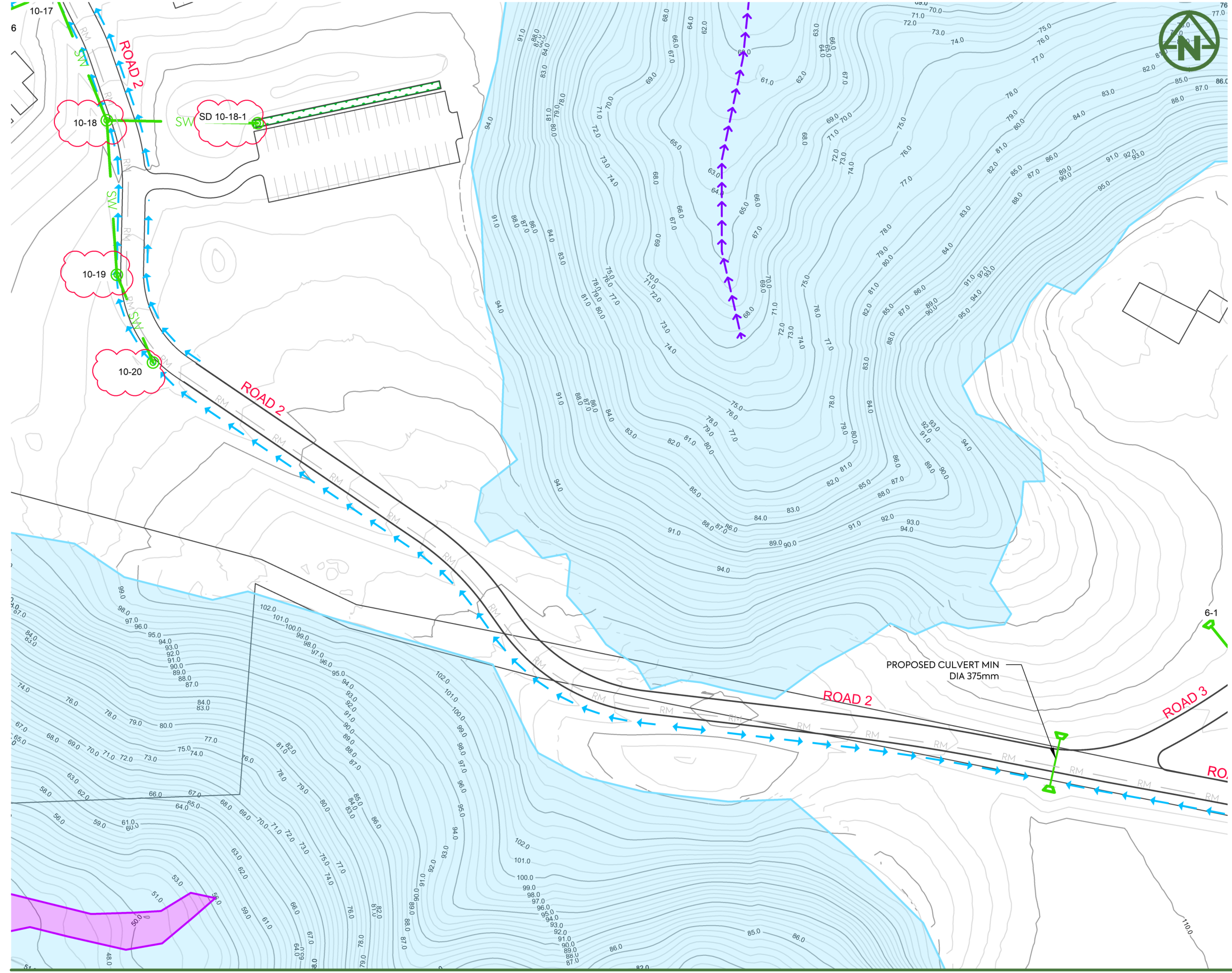
**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

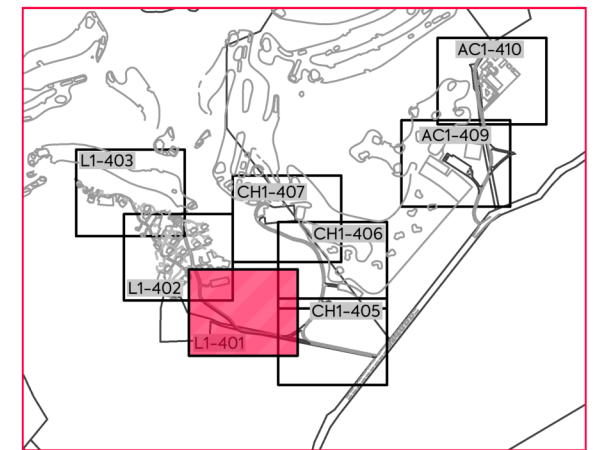


	CLIENT: <b>THE BEARS HOME PROJECT MANAGEMENT LTD</b>	PROJECT: <b>MURIWAI DOWNS GOLF PROJECT 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</b>	TITLE: <b>PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE OVERALL PLAN SHEET 1</b>	PURPOSE OF ISSUE: <b>FOR CONSENT</b>																															
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- NOTES:**
- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.
- LEGEND:**
- PROPOSED STORMWATER PIT AND PIPE NETWORK: SW
  - PROPOSED STORMWATER OUTLET: [Symbol]
  - PROPOSED OFFLINE RAINGARDEN: [Symbol]
  - PROPOSED STORMWATER CULVERT ROAD CROSSING: [Symbol]
  - PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS: [Symbol]
  - PROPOSED RAINWATER COLLECTION: [Symbol]
  - PROPOSED SHOULDER DRAIN: [Symbol]
  - PROPOSED WASTEWATER GRAVITY NETWORK: WW
  - PROPOSED WASTEWATER RISING MAIN: RM
  - FINISHED (5m) MAJOR CONTOUR: 75.0
  - FINISHED (1m) MINOR CONTOUR: [Symbol]
  - EXISTING WETLANDS: [Symbol]
  - MAPPED SEA/ONF (BY ECOLOGIST): [Symbol]



**DRAWING LAYOUT PLAN**

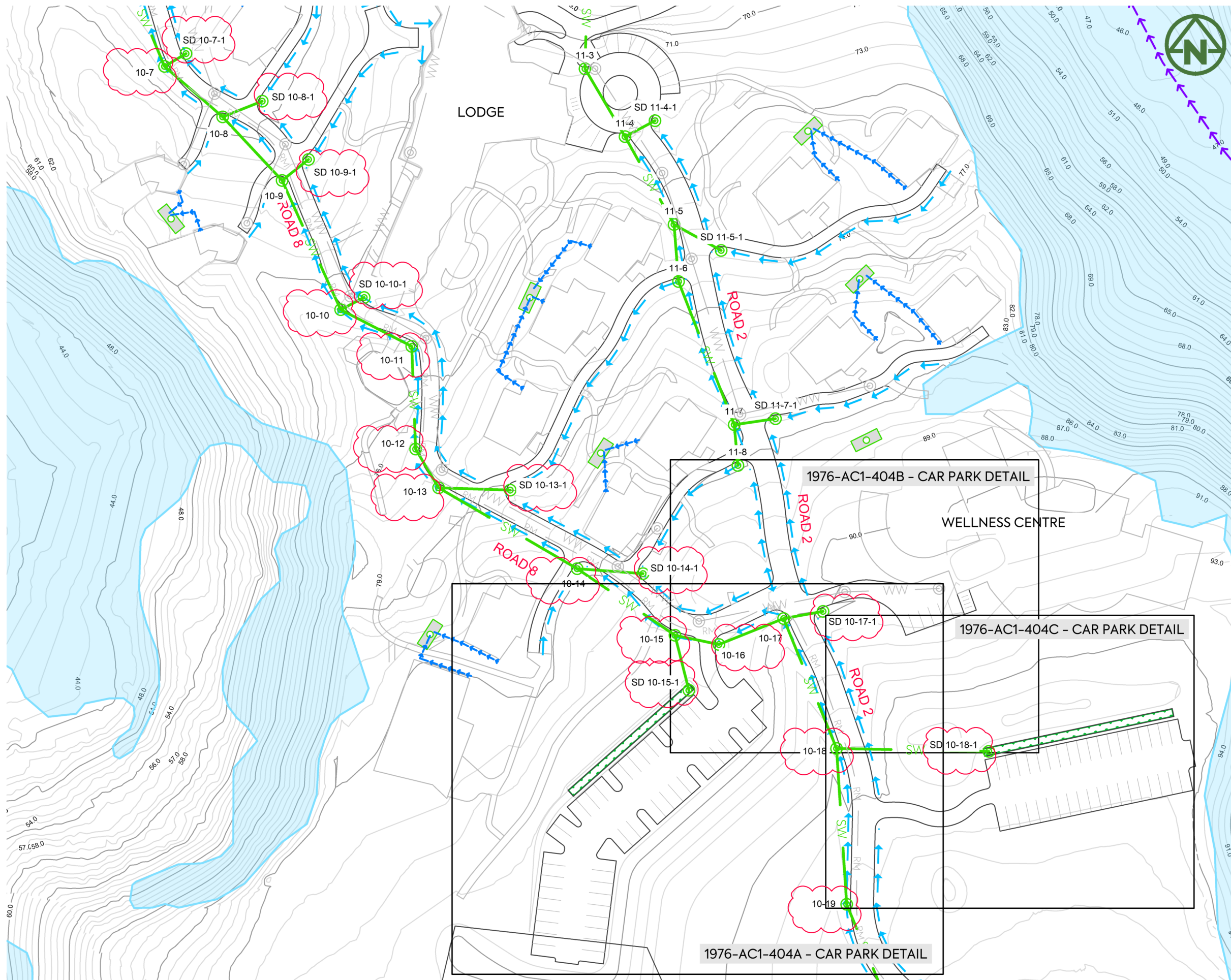
CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 2 PURPOSE OF ISSUE: FOR CONSENT

SCALE: 1:1000 @ A3 DO NOT SCALE DRAWING NO: 1976-L1-401 REV: D

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





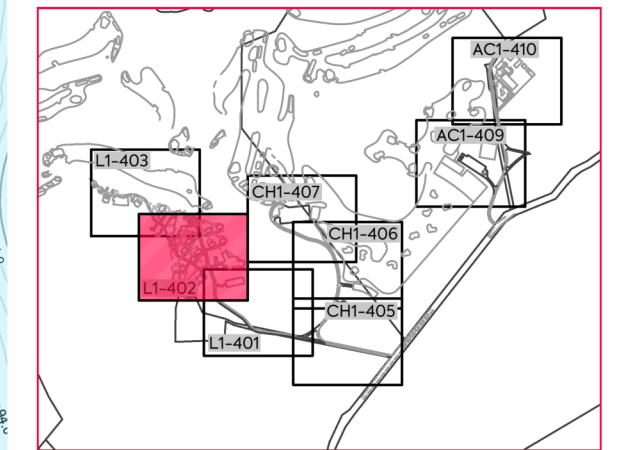


**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
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- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
D	S92 RESPONSE	MO	CIM	JSD	04/03/22
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21

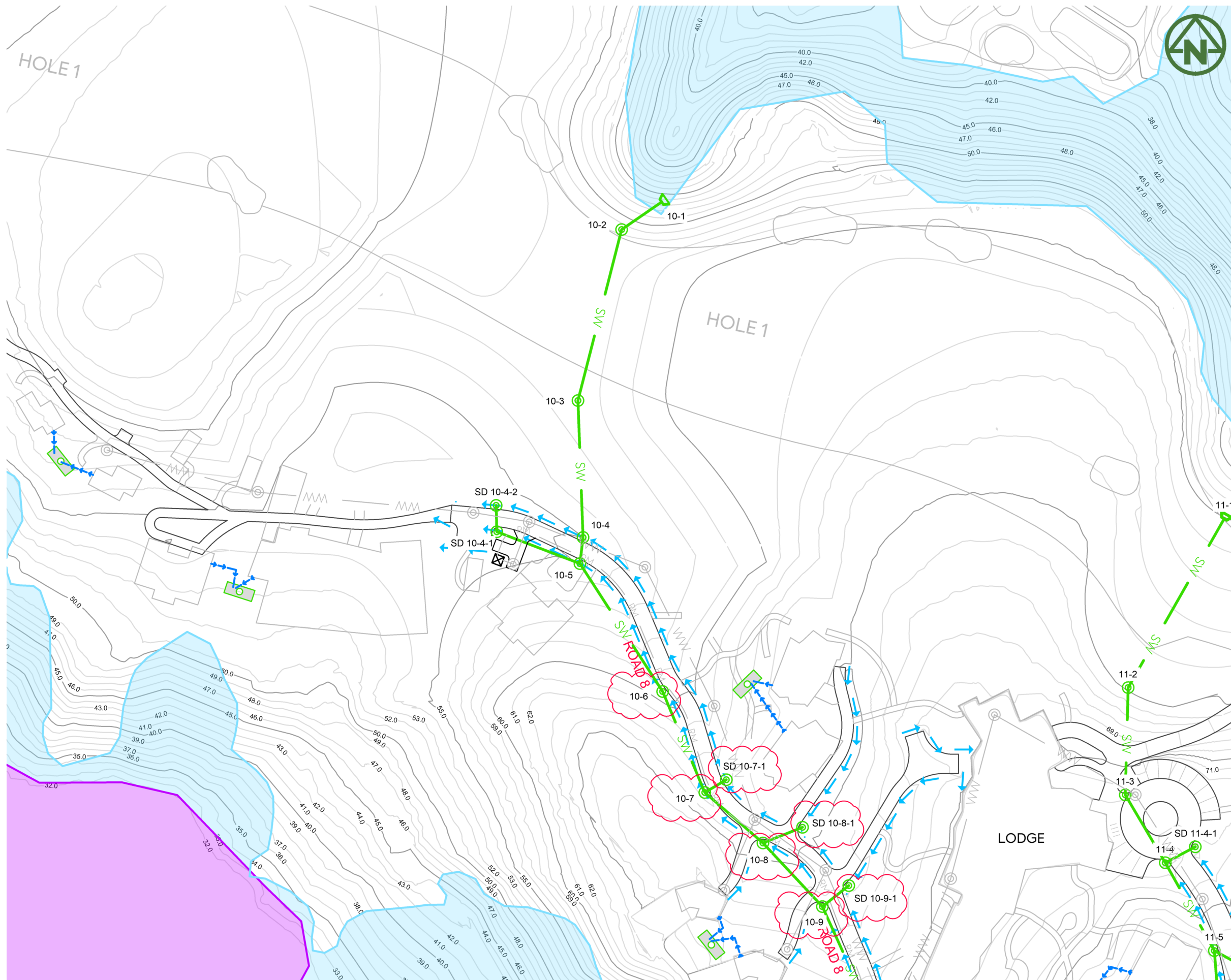


CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD  
 PROJECT: MURIWAI DOWNS GOLF PROJECT  
 610 & 697 MURIWAI ROAD  
 MURIWAI VALLEY

TITLE: PROPOSED DRAINAGE STORMWATER NETWORK  
 GOLF LODGE LAYOUT PLAN  
 SHEET 3

PURPOSE OF ISSUE: FOR CONSENT  
 SCALE: 1:1000 @ A3  
 DO NOT SCALE  
 DRAWING NO: 1976-L1-402  
 REV: D



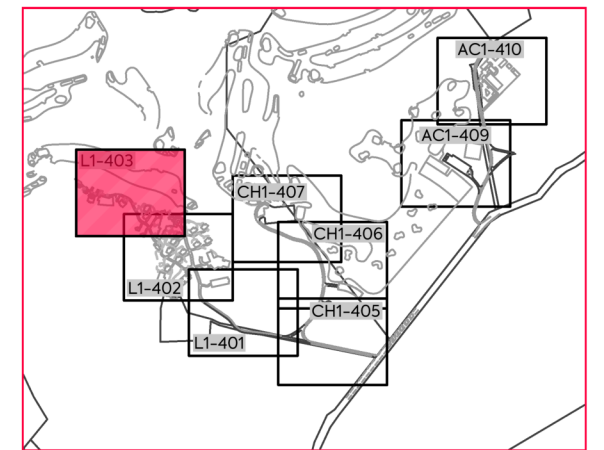


**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
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- PROPOSED SHOULDER DRAIN
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- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

CLIENT:

**THE BEARS HOME  
PROJECT MANAGEMENT LTD**

PROJECT:

**MURIWAI DOWNS GOLF PROJECT  
610 & 697 MURIWAI ROAD  
MURIWAI VALLEY**

TITLE:

**PROPOSED DRAINAGE  
STORMWATER NETWORK  
GOLF LODGE LAYOUT PLAN  
SHEET 4**

PURPOSE OF ISSUE:

**FOR CONSENT**

SCALE:  
**1:1000 @ A3**

DO NOT SCALE

DRAWING NO:  
**1976-L1-403**

REV:

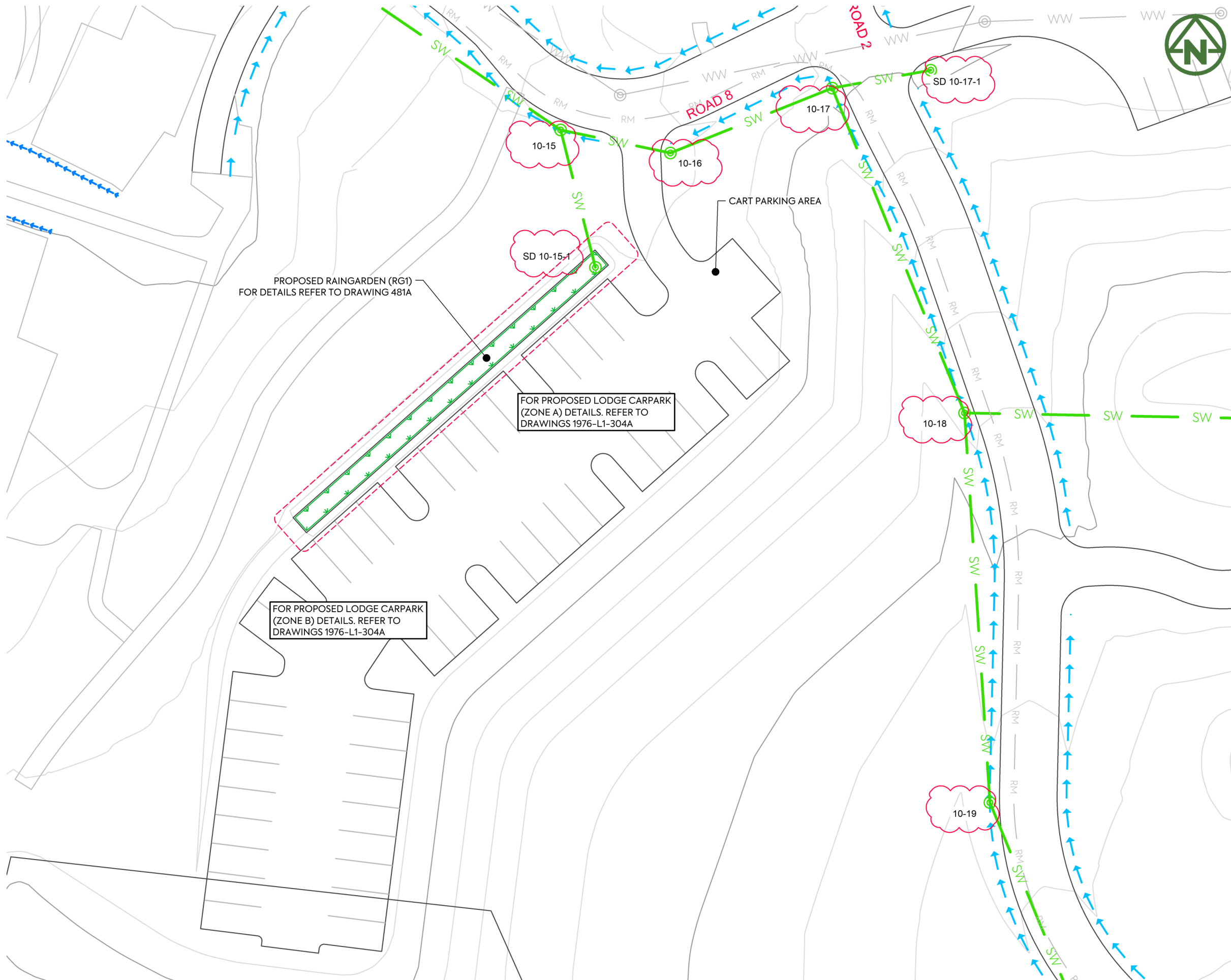
**D**

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
D	S92 RESPONSE	MO	CIM	JSD	04/03/22
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21



**MCKENZIE & CO.**





**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

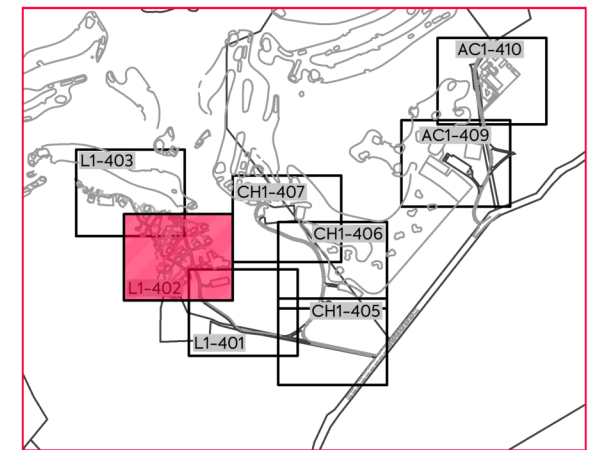
- PROPOSED STORMWATER PIT AND PIPE NETWORK — SW —
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION → → → → →
- PROPOSED SHOULDER DRAIN ← ← ← ← ←
- PROPOSED WASTEWATER GRAVITY NETWORK — WW —
- PROPOSED WASTEWATER RISING MAIN — RM —
- FINISHED (5m) MAJOR CONTOUR — 75.0 —
- FINISHED (1m) MINOR CONTOUR — —
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

PROPOSED RAINGARDEN (RG1)  
FOR DETAILS REFER TO DRAWING 481A

FOR PROPOSED LODGE CARPARK  
(ZONE A) DETAILS. REFER TO  
DRAWINGS 1976-L1-304A

FOR PROPOSED LODGE CARPARK  
(ZONE B) DETAILS. REFER TO  
DRAWINGS 1976-L1-304A

CART PARKING AREA



**DRAWING LAYOUT PLAN**

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
D	S92 RESPONSE	MO	CIM	JSD	04/03/22
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
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A	FIRST ISSUE	MO	CIM	JSD	24/08/21



CLIENT:  
**THE BEARS HOME  
PROJECT MANAGEMENT LTD**

PROJECT:  
**MURIWAI DOWNS GOLF PROJECT  
610 & 697 MURIWAI ROAD  
MURIWAI VALLEY**

TITLE:  
**PROPOSED DRAINAGE  
STORMWATER NETWORK  
GOLF LODGE LAYOUT PLAN  
SHEET 5**

PURPOSE OF ISSUE:  
**FOR CONSENT**

SCALE:  
**1:400 @ A3**

DO NOT SCALE

DRAWING NO.: **1976-L1-404A**

REV: **D**





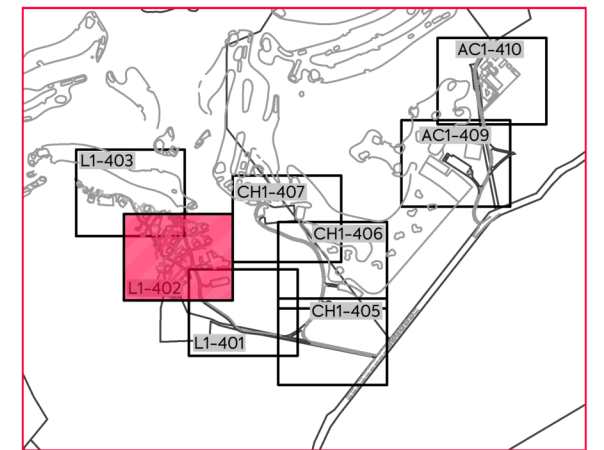
**NOTES:**

- 1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

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- PROPOSED STORMWATER OUTLET
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- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
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FOR PROPOSED WELLNESS CARPARK DETAILS, REFER TO DRAWINGS 1976-L1-304B



**DRAWING LAYOUT PLAN**

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
D	S92 RESPONSE	MO	CIM	JSD	04/03/22
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
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A	FIRST ISSUE	MO	CIM	JSD	24/08/21



CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD  
 PROJECT: MURIWAI DOWNS GOLF PROJECT  
 TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 6

PURPOSE OF ISSUE: FOR CONSENT

SCALE: 1:300 @ A3  
 DO NOT SCALE

DRAWING NO: 1976-L1-404B  
 REV: D










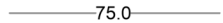





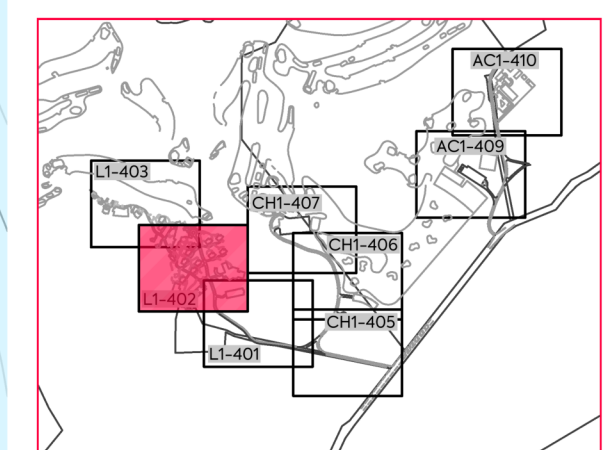


**NOTES:**

- 1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

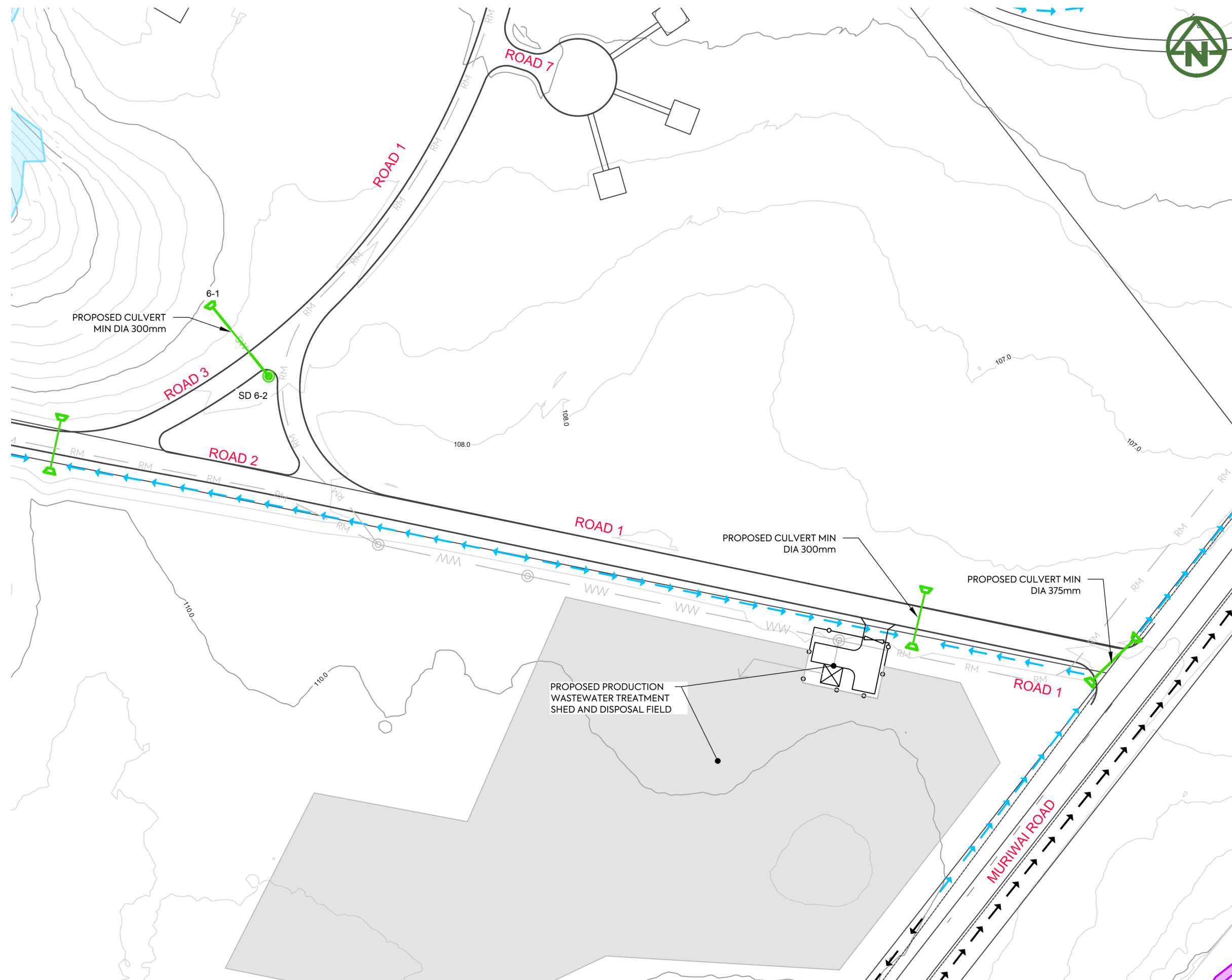
- PROPOSED STORMWATER PIT AND PIPE NETWORK  SW
- PROPOSED STORMWATER OUTLET 
- PROPOSED OFFLINE RAINGARDEN 
- PROPOSED STORMWATER CULVERT ROAD CROSSING 
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS 
- PROPOSED RAINWATER COLLECTION 
- PROPOSED SHOULDER DRAIN 
- PROPOSED WASTEWATER GRAVITY NETWORK  WW
- PROPOSED WASTEWATER RISING MAIN  RM
- FINISHED (5m) MAJOR CONTOUR  75.0
- FINISHED (1m) MINOR CONTOUR 
- EXISTING WETLANDS 
- MAPPED SEA/ONF (BY ECOLOGIST) 



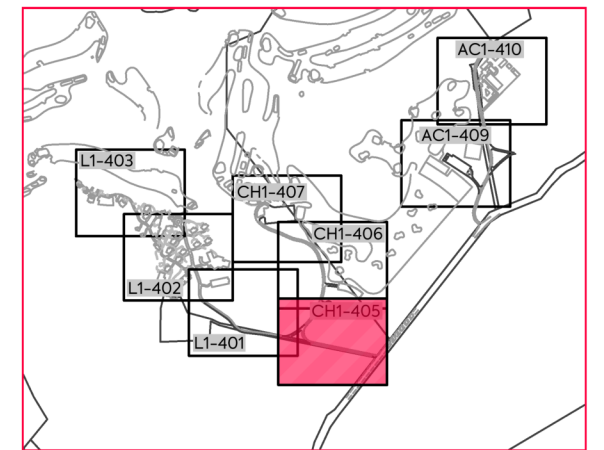
**DRAWING LAYOUT PLAN**

<b>CLIENT:</b> THE BEARS HOME PROJECT MANAGEMENT LTD		<b>PROJECT:</b> MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY		<b>TITLE:</b> PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 7		<b>PURPOSE OF ISSUE:</b> FOR CONSENT	
<b>REV</b> D S92 RESPONSE C ISSUED FOR CONSENT B SECOND ISSUE A FIRST ISSUE	<b>DRN BY</b> MO MO MO MO	<b>CHK BY</b> CIM CIM CIM CIM	<b>APP BY</b> JSD JSD JSD JSD	<b>DATE</b> 04/03/22 26/11/21 05/11/21 24/08/21	<b>SCALE:</b> 1:300 @ A3 DO NOT SCALE		<b>REV:</b> D
<b>MCKENZIE &amp; CO.</b>				<b>DRAWING NO.:</b> 1976-L1-404C		<b>DATE:</b> 2022-03-14 16:03:33	





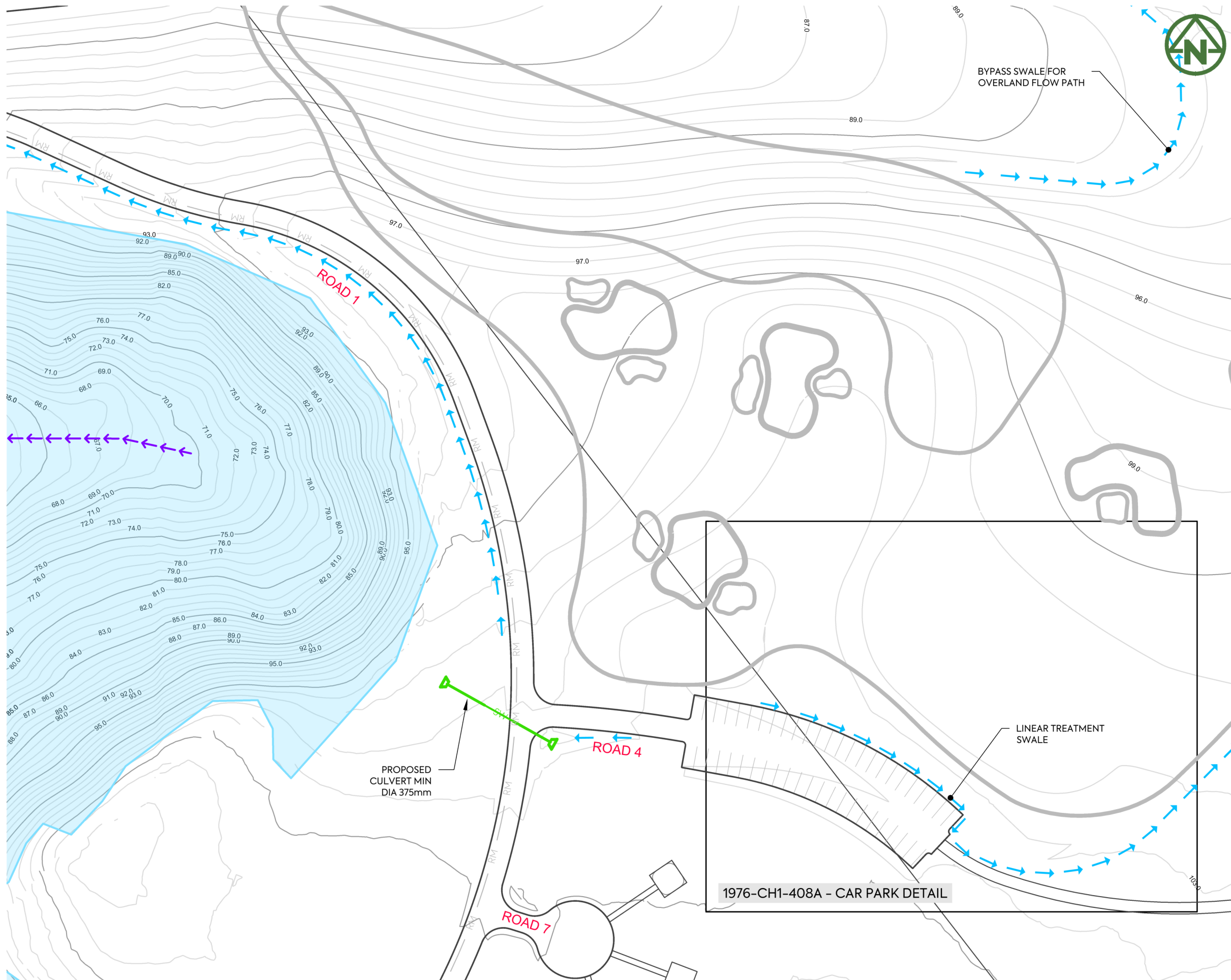
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- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.
- LEGEND:**
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  - PROPOSED STORMWATER OUTLET
  - PROPOSED OFFLINE RAINGARDEN
  - PROPOSED STORMWATER CULVERT ROAD CROSSING
  - PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
  - PROPOSED RAINWATER COLLECTION
  - PROPOSED SHOULDER DRAIN
  - PROPOSED WASTEWATER GRAVITY NETWORK
  - PROPOSED WASTEWATER RISING MAIN
  - FINISHED (5m) MAJOR CONTOUR
  - FINISHED (1m) MINOR CONTOUR
  - EXISTING WETLANDS
  - MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

	<p>CLIENT: <b>THE BEARS HOME PROJECT MANAGEMENT LTD</b></p> <p>PROJECT: <b>MURIWAI DOWNS GOLF PROJECT</b> 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: <b>PROPOSED DRAINAGE STORMWATER NETWORK</b> <b>GOLF CLUBHOUSE LAYOUT PLAN</b> <b>SHEET 8</b></p>	<p>PURPOSE OF ISSUE: <b>FOR CONSENT</b></p> <p>SCALE: <b>1:1000 @ A3</b></p> <p>DO NOT SCALE</p> <p>DRAWING NO: <b>1976-CH1-405</b></p> <p>REV: <b>D</b></p>																															
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">REV</td> <td style="width: 60%;">DESCRIPTION</td> <td style="width: 10%;">DRN BY</td> <td style="width: 10%;">CHK BY</td> <td style="width: 10%;">APP BY</td> <td style="width: 10%;">DATE</td> </tr> <tr> <td>D</td> <td>S92 RESPONSE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>04/03/22</td> </tr> <tr> <td>C</td> <td>ISSUED FOR CONSENT</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>26/11/21</td> </tr> <tr> <td>B</td> <td>SECOND ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>05/11/21</td> </tr> <tr> <td>A</td> <td>FIRST ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>24/08/21</td> </tr> </table>	REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE	D	S92 RESPONSE	MO	CIM	JSD	04/03/22	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	05/11/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21		<p>THE BEARS HOME PROJECT MANAGEMENT LTD</p> <p>MURIWAI DOWNS GOLF PROJECT</p> <p>610 &amp; 697 MURIWAI ROAD</p> <p>MURIWAI VALLEY</p>	<p>PROPOSED DRAINAGE STORMWATER NETWORK</p> <p>GOLF CLUBHOUSE LAYOUT PLAN</p> <p>SHEET 8</p>	<p>FOR CONSENT</p> <p>SCALE: 1:1000 @ A3</p> <p>DO NOT SCALE</p> <p>DRAWING NO: 1976-CH1-405</p> <p>REV: D</p>
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE																													
D	S92 RESPONSE	MO	CIM	JSD	04/03/22																													
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21																													
B	SECOND ISSUE	MO	CIM	JSD	05/11/21																													
A	FIRST ISSUE	MO	CIM	JSD	24/08/21																													



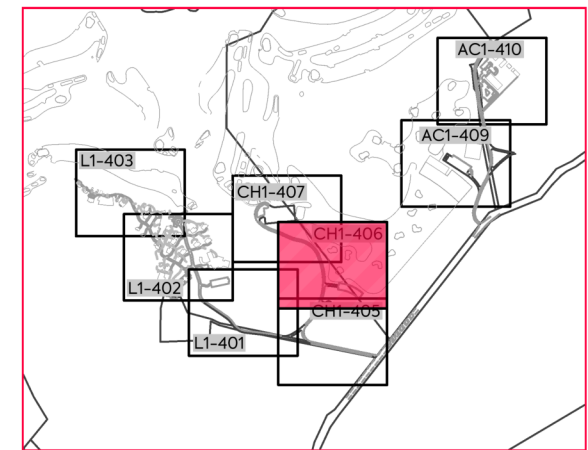


**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

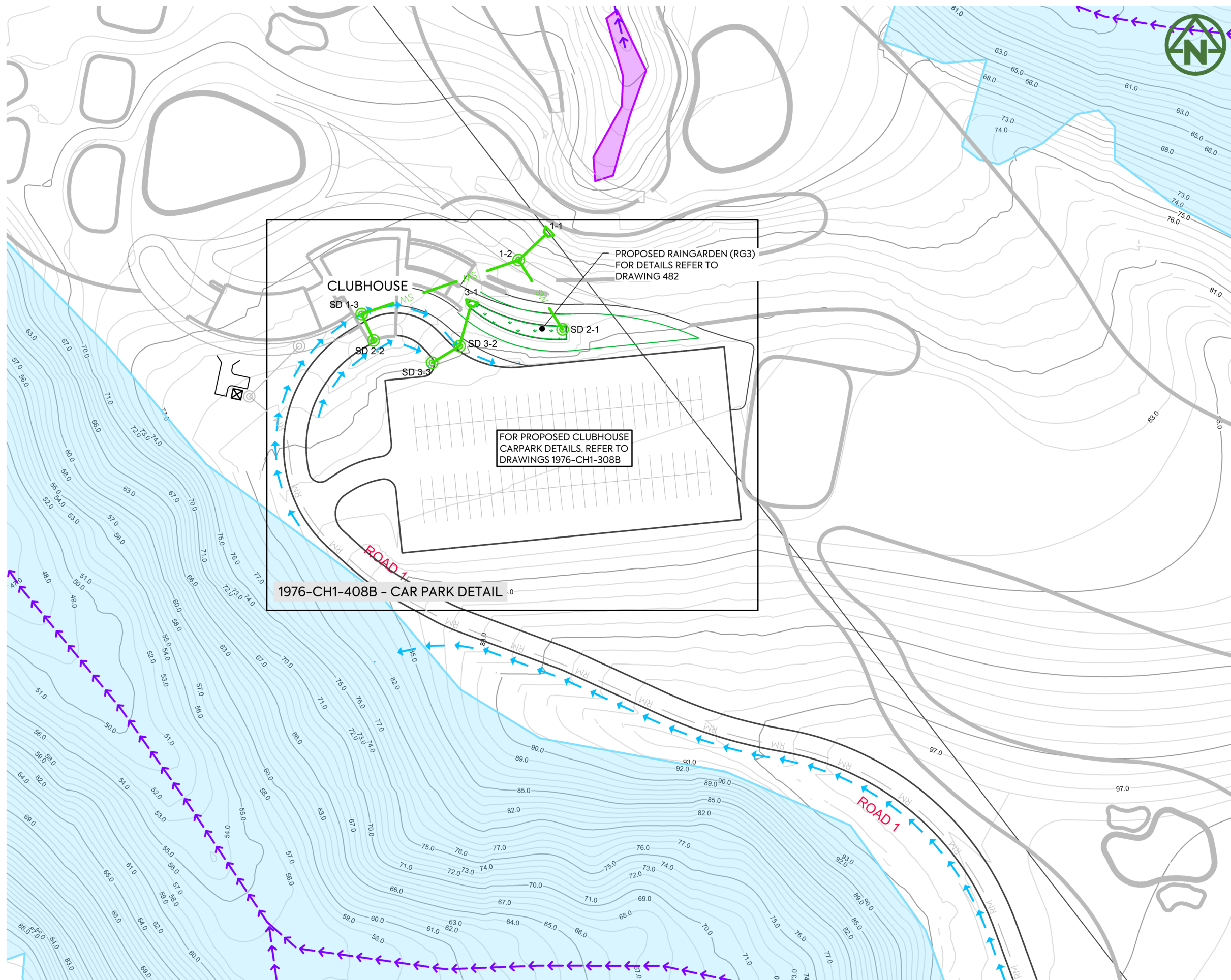
- PROPOSED STORMWATER PIT AND PIPE NETWORK — SW —
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION → → → → →
- PROPOSED SHOULDER DRAIN ← ← ← ← ←
- PROPOSED WASTEWATER GRAVITY NETWORK — WW —
- PROPOSED WASTEWATER RISING MAIN — RM —
- FINISHED (5m) MAJOR CONTOUR — 75.0 —
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

	<p>CLIENT: <b>THE BEARS HOME PROJECT MANAGEMENT LTD</b></p>	<p>PROJECT: <b>MURIWAI DOWNS GOLF PROJECT</b> 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: <b>PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 9</b></p>	<p>PURPOSE OF ISSUE: <b>FOR CONSENT</b></p>																								
				<p>SCALE: <b>1:1000 @ A3</b> DO NOT SCALE</p>																								
<table border="0" style="width: 100%; font-size: 8px;"> <tr> <td style="width: 10%;">REV</td> <td style="width: 60%;">DESCRIPTION</td> <td style="width: 10%;">DRN BY</td> <td style="width: 10%;">CHK BY</td> <td style="width: 10%;">APP BY</td> <td style="width: 10%;">DATE</td> </tr> <tr> <td>C</td> <td>ISSUED FOR CONSENT</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>26/11/21</td> </tr> <tr> <td>B</td> <td>SECOND ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>05/11/21</td> </tr> <tr> <td>A</td> <td>FIRST ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>24/08/21</td> </tr> </table>	REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	05/11/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21				<p>DRAWING NO.: <b>1976-CH1-406</b></p>
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE																							
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B	SECOND ISSUE	MO	CIM	JSD	05/11/21																							
A	FIRST ISSUE	MO	CIM	JSD	24/08/21																							
				<p>REV: <b>C</b></p>																								



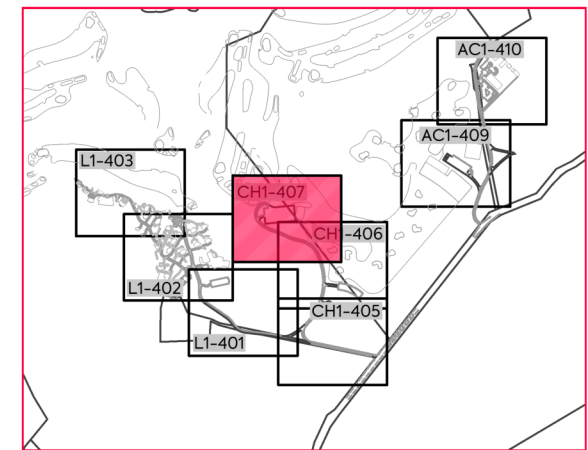
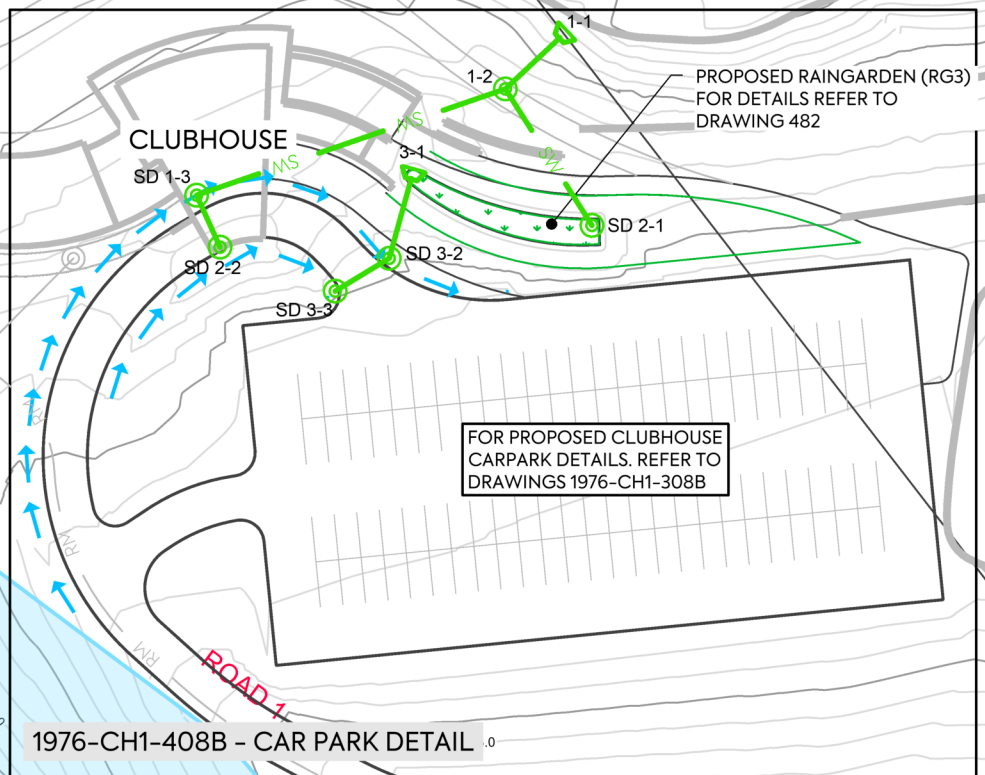


**NOTES:**

1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN PURPOSE OF ISSUE: FOR CONSENT

C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



MURIWAI DOWNS GOLF PROJECT  
610 & 697 MURIWAI ROAD  
MURIWAI VALLEY

PROPOSED DRAINAGE  
STORMWATER NETWORK  
GOLF CLUBHOUSE LAYOUT PLAN  
SHEET 10

SCALE:	1:1000 @ A3
DO NOT SCALE	
DRAWING NO.:	1976-CH1-407
REV:	C



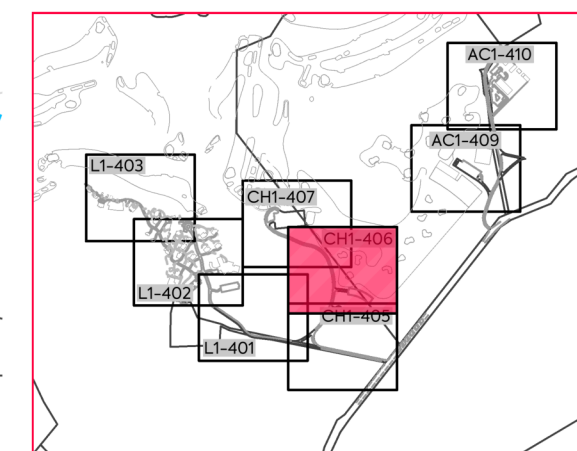


**NOTES:**

- 1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK SW
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK WW
- PROPOSED WASTEWATER RISING MAIN RM
- FINISHED (5m) MAJOR CONTOUR 75.0
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 11 PURPOSE OF ISSUE: FOR CONSENT

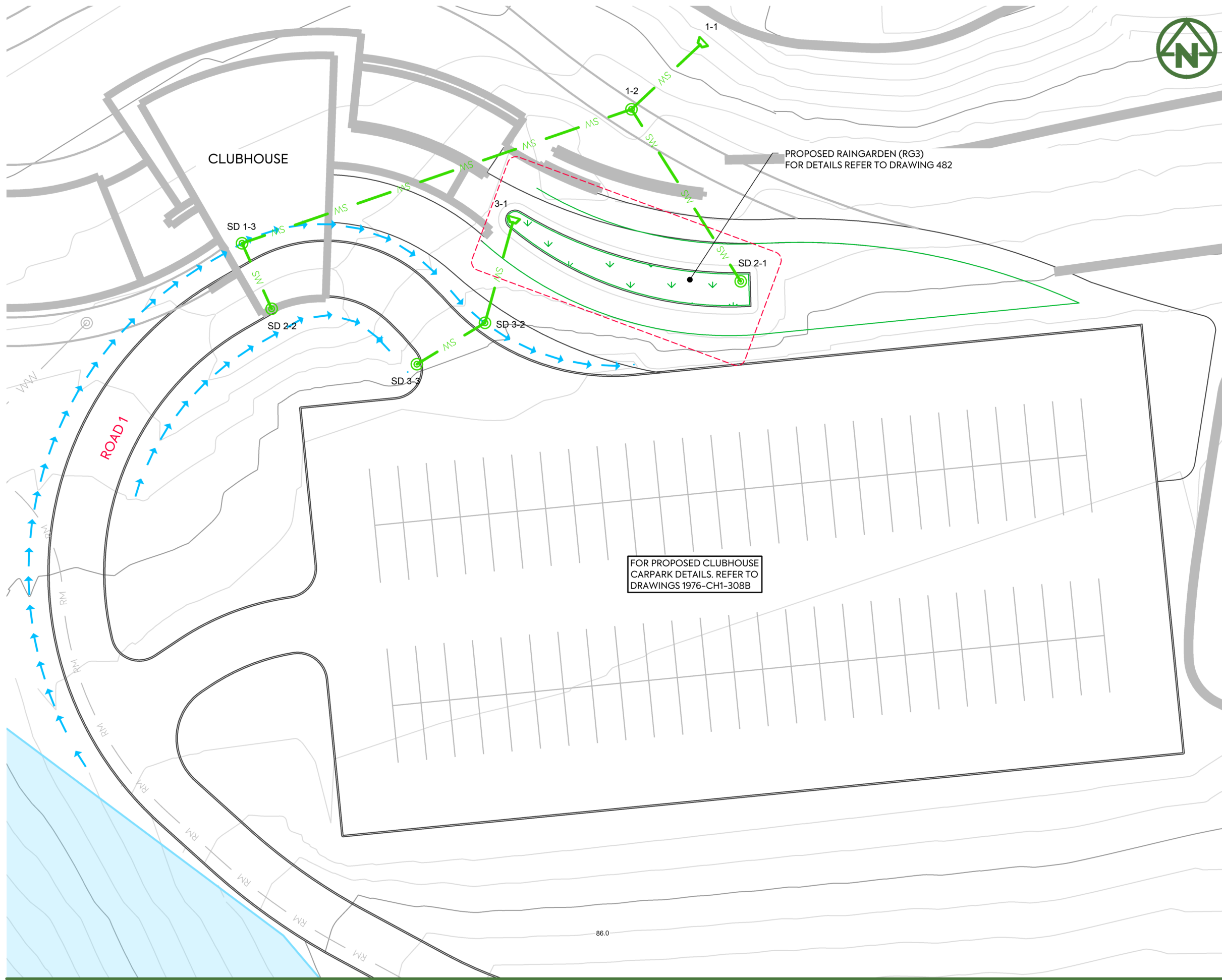
SCALE: 1:400 @ A3 DO NOT SCALE REV: C

DRAWING NO.: 1976-CH1-408A

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21







**NOTES:**

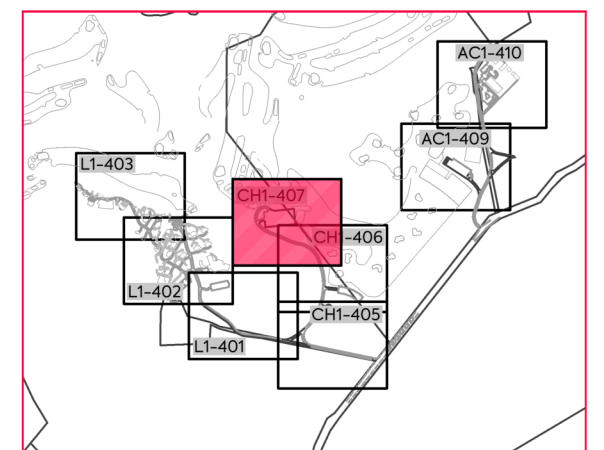
- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

FOR PROPOSED CLUBHOUSE CARPARK DETAILS. REFER TO DRAWINGS 1976-CH1-308B

PROPOSED RAINGARDEN (RG3) FOR DETAILS REFER TO DRAWING 482



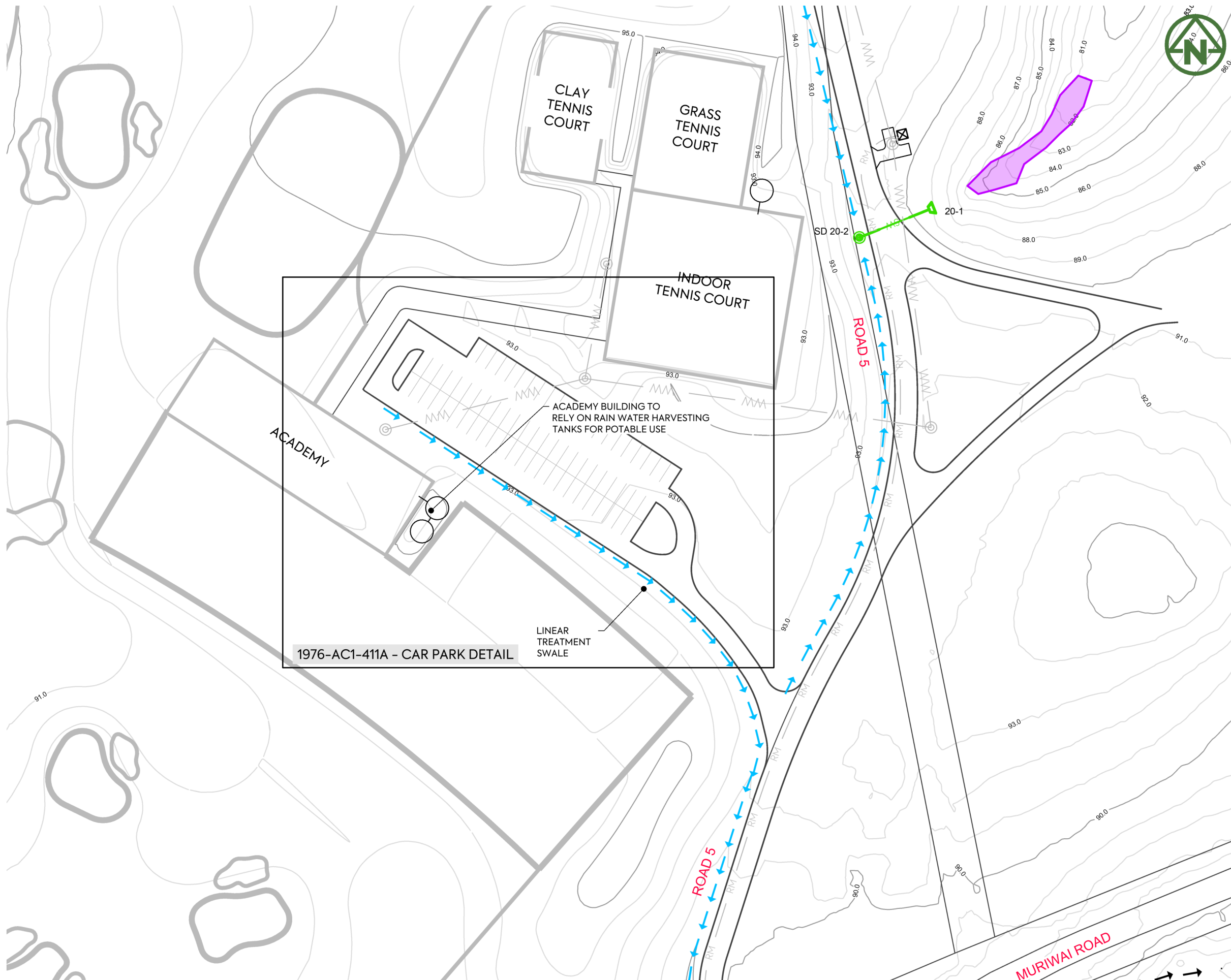
**DRAWING LAYOUT PLAN**

	<p>CLIENT:</p> <p><b>THE BEARS HOME PROJECT MANAGEMENT LTD</b></p>	<p>PROJECT:</p> <p><b>MURIWAI DOWNS GOLF PROJECT</b> 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE:</p> <p><b>PROPOSED DRAINAGE STORMWATER NETWORK</b> GOLF CLUBHOUSE LAYOUT PLAN SHEET 12</p>	<p>PURPOSE OF ISSUE:</p> <p><b>FOR CONSENT</b></p>
				<p>SCALE:</p> <p><b>1:400 @ A3</b></p>
				<p>DO NOT SCALE</p>
				<p>DRAWING NO:</p> <p><b>1976-CH1-408B</b></p>
				<p>REV:</p> <p><b>C</b></p>

C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE







**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

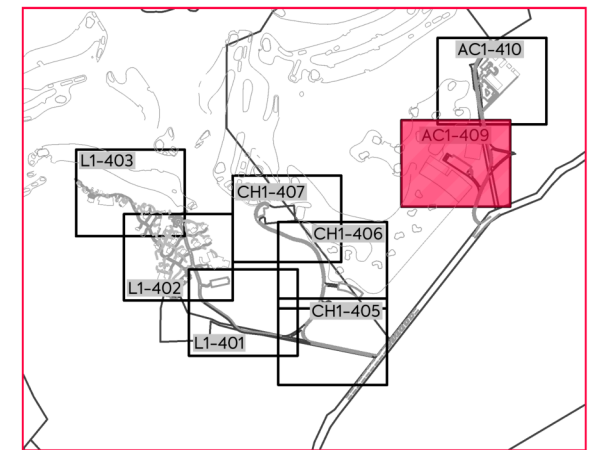
**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

1976-AC1-411A - CAR PARK DETAIL

LINEAR TREATMENT SWALE

ACADEMY BUILDING TO RELY ON RAIN WATER HARVESTING TANKS FOR POTABLE USE



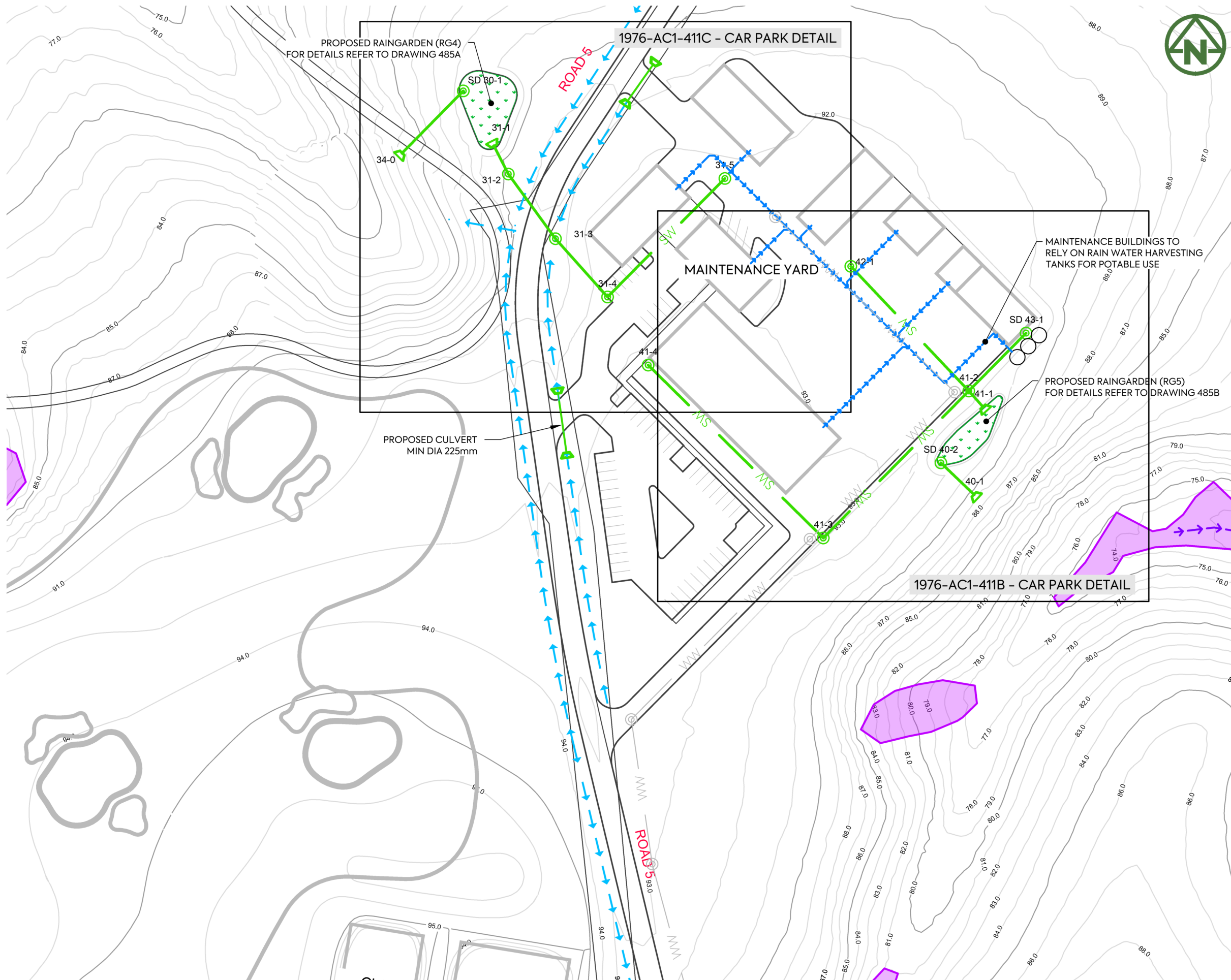
**DRAWING LAYOUT PLAN**

<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 13</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p>
<p>SCALE: 1:1000 @ A3 DO NOT SCALE</p>			<p>DRAWING NO: 1976-AC1-409</p>
<p>REV. DESCRIPTION</p>			<p>REV: C</p>



C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



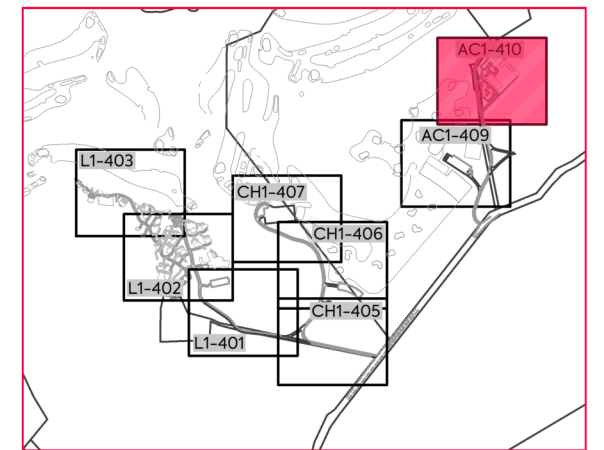


**NOTES:**

1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 14 PURPOSE OF ISSUE: FOR CONSENT

SCALE: 1:1000 @ A3 DO NOT SCALE REV: C

DRAWING NO: 1976-AC1-410



REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21



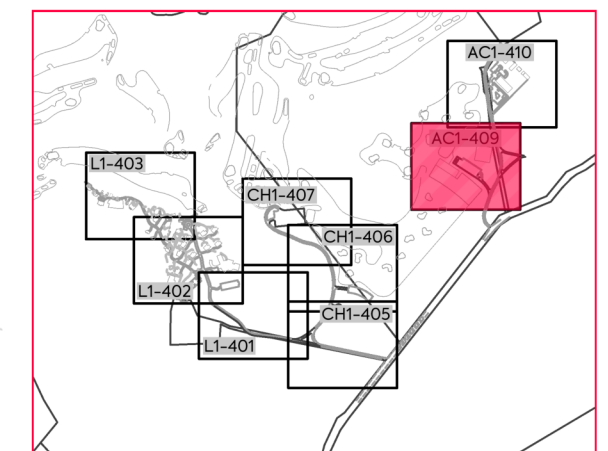
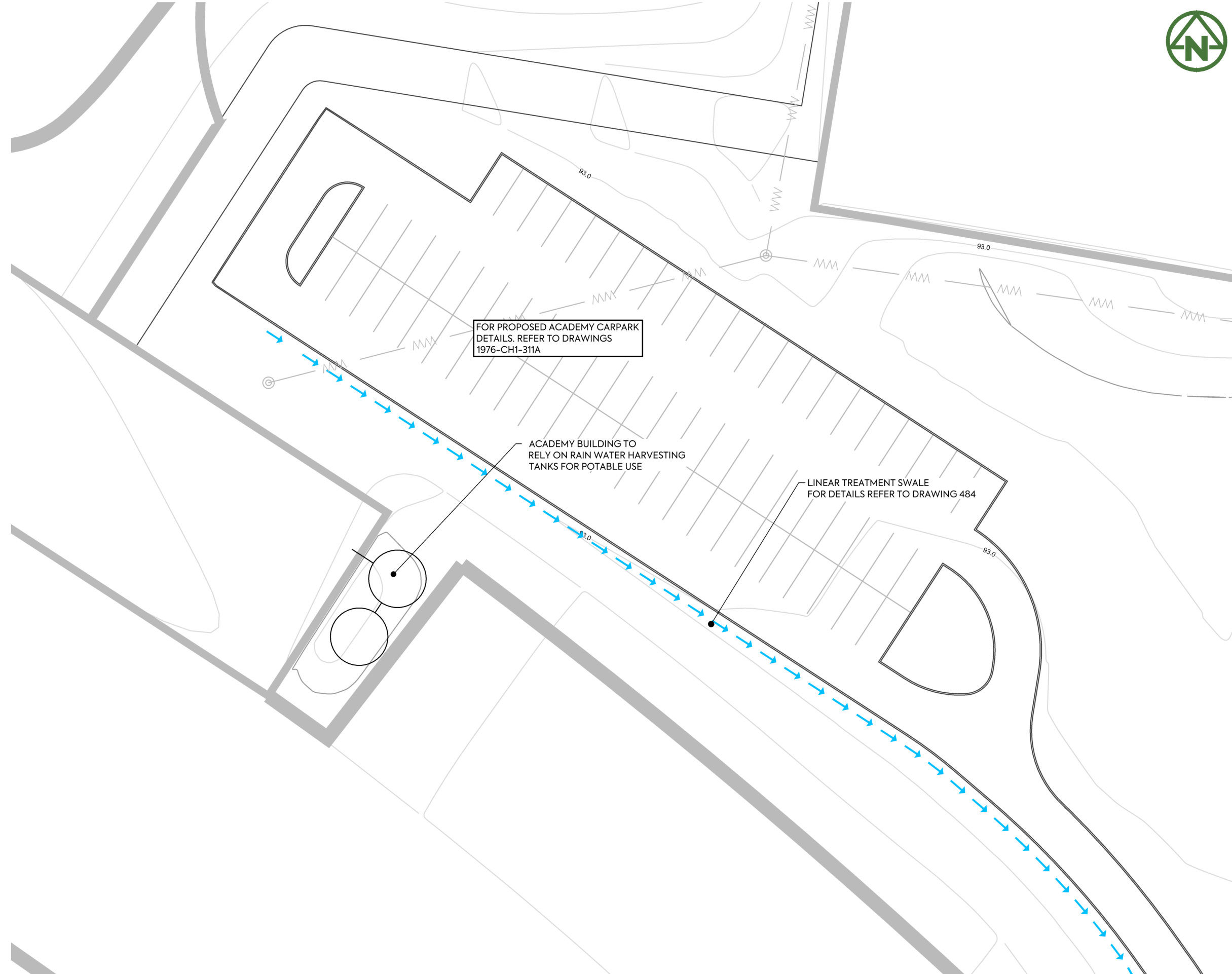


**NOTES:**

- 1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)



**DRAWING LAYOUT PLAN**

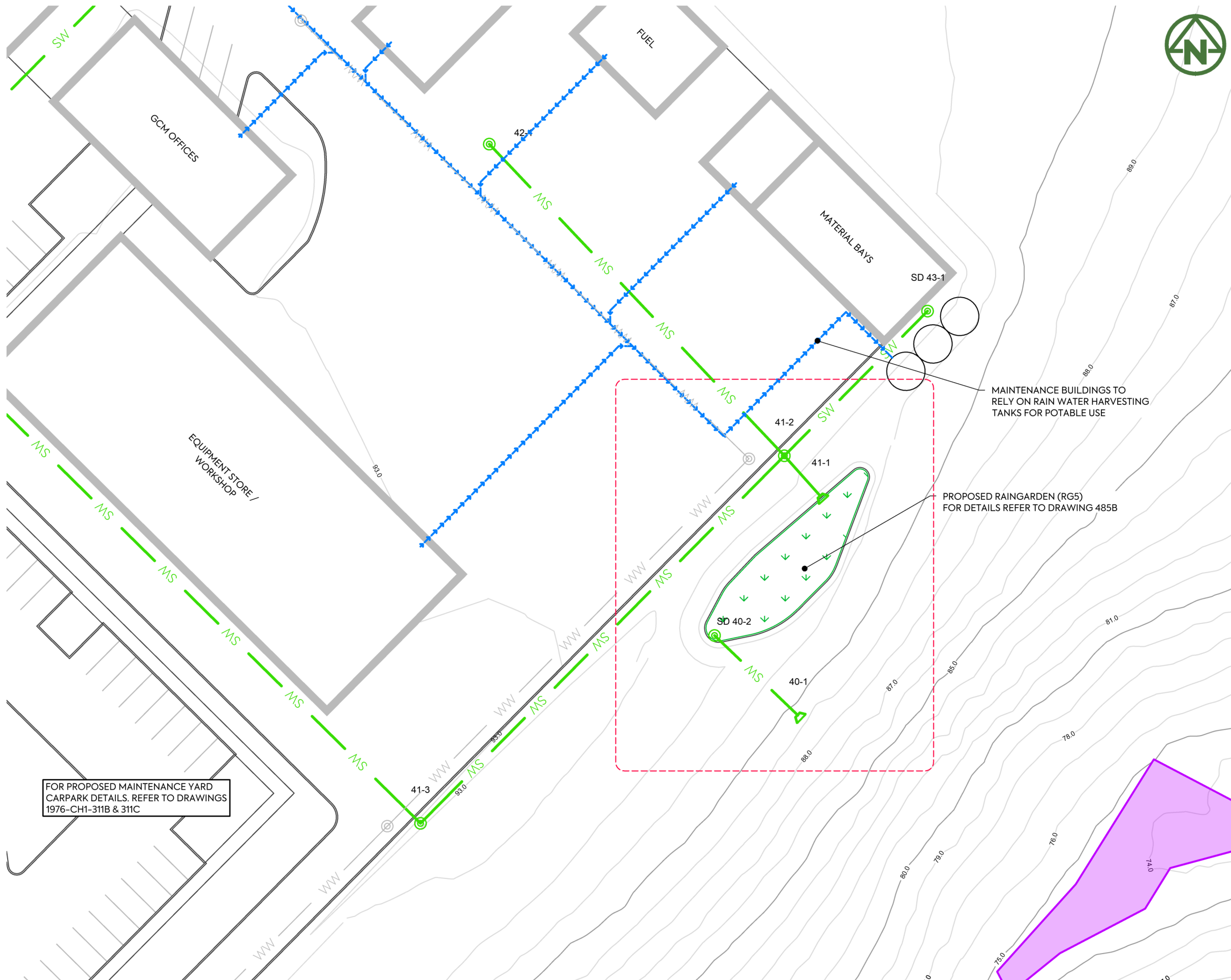
CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY TITLE: PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 15 PURPOSE OF ISSUE: FOR CONSENT

SCALE: 1:400 @ A3 DO NOT SCALE REV: C DRAWING NO: 1976-AC1-411A

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21







**NOTES:**

- REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

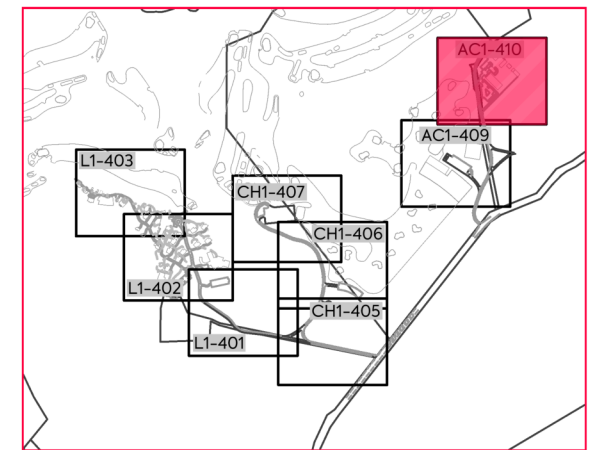
**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

FOR PROPOSED MAINTENANCE YARD CARPARK DETAILS. REFER TO DRAWINGS 1976-CH1-311B & 311C

MAINTENANCE BUILDINGS TO RELY ON RAIN WATER HARVESTING TANKS FOR POTABLE USE

PROPOSED RAINGARDEN (RG5) FOR DETAILS REFER TO DRAWING 485B



**DRAWING LAYOUT PLAN**

	<p>CLIENT: <b>THE BEARS HOME PROJECT MANAGEMENT LTD</b></p>	<p>PROJECT: <b>MURIWAI DOWNS GOLF PROJECT</b> 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: <b>PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 16</b></p>	<p>PURPOSE OF ISSUE: <b>FOR CONSENT</b></p>																		
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">C</td><td style="width: 60%;">ISSUED FOR CONSENT</td><td style="width: 10%;">MO</td><td style="width: 10%;">CIM</td><td style="width: 10%;">JSD</td><td style="width: 10%;">26/11/21</td></tr> <tr> <td>B</td><td>SECOND ISSUE</td><td>MO</td><td>CIM</td><td>JSD</td><td>05/11/21</td></tr> <tr> <td>A</td><td>FIRST ISSUE</td><td>MO</td><td>CIM</td><td>JSD</td><td>24/08/21</td></tr> </table>	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	05/11/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21				
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21																	
B	SECOND ISSUE	MO	CIM	JSD	05/11/21																	
A	FIRST ISSUE	MO	CIM	JSD	24/08/21																	
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REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE																	





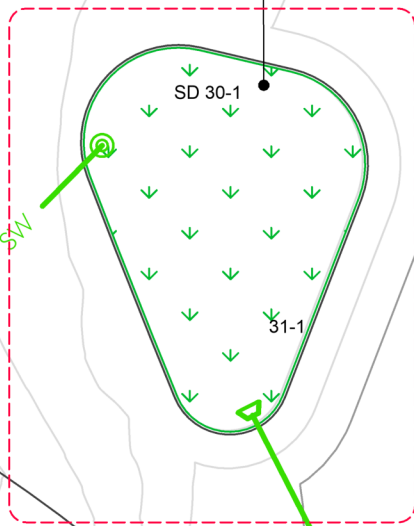
**NOTES:**

- 1. REFER TO DRAWING 1976-1-400 FOR STANDARD STORMWATER NOTES.

**LEGEND:**

- PROPOSED STORMWATER PIT AND PIPE NETWORK
- PROPOSED STORMWATER OUTLET
- PROPOSED OFFLINE RAINGARDEN
- PROPOSED STORMWATER CULVERT ROAD CROSSING
- PROPOSED SOAKAGE PIT TO SERVICE MULTIPLE NEARBY UNITS
- PROPOSED RAINWATER COLLECTION
- PROPOSED SHOULDER DRAIN
- PROPOSED WASTEWATER GRAVITY NETWORK
- PROPOSED WASTEWATER RISING MAIN
- FINISHED (5m) MAJOR CONTOUR
- FINISHED (1m) MINOR CONTOUR
- EXISTING WETLANDS
- MAPPED SEA/ONF (BY ECOLOGIST)

PROPOSED RAINGARDEN (RG4)  
FOR DETAILS REFER TO DRAWING 485A



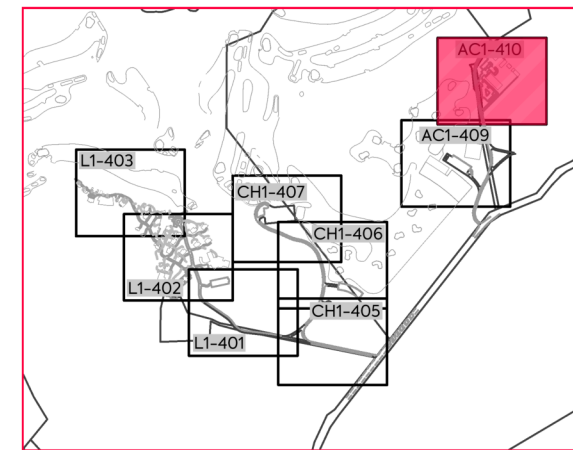
ROAD 5

BULK STORE

OPERATIONS

GCM OFFICES

FOR PROPOSED MAINTENANCE YARD  
CARPARK DETAILS, REFER TO DRAWINGS  
1976-CH1-311B & 311C



**DRAWING LAYOUT PLAN**

CLIENT: PROJECT: TITLE:

THE BEARS HOME PROJECT MANAGEMENT LTD  
MURIWAI DOWNS GOLF PROJECT  
610 & 697 MURIWAI ROAD  
MURIWAI VALLEY

PROPOSED DRAINAGE  
STORMWATER NETWORK  
GOLF ACADEMY LAYOUT PLAN  
SHEET 17

PURPOSE OF ISSUE:  
**FOR CONSENT**  
SCALE:  
**1:400 @ A3**  
DO NOT SCALE  
DRAWING NO. **1976-AC1-411C** REV: **C**



C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE