



LOT 12

LOT 24

LOT 27

LOT 26

LOT 25

FLOOD VOLUME (WATER STORAGE) = 16,814 m<sup>3</sup>  
AT CULVERT 1-1 UPSTREAM WITH 100-YEAR FLOOD  
LEVEL OF 58.85m RL (ROAD CREST LEVEL)

CULVERT 1-1: Ø1050 CULVERT (320mm EMBEDMENT)

SECONDARY 6000 X1000 BOX CULVERT

JOAL 1

LOT 11

LOT 10

LOT 48

LOT 47

LOT 4

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING. GREATER THAN 20% WEAK CONCRETE BEDDING (7MPa PLUS ANTI SCOUR BLOCKS AT 6m CRS).
  5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
  6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
  8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
  9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
  10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
  11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

|     |                                             |
|-----|---------------------------------------------|
| --- | EX BDY                                      |
| --- | PR BDY                                      |
| --- | PR OLFP                                     |
| --- | EX STREAMS                                  |
| --- | EX CULVERT                                  |
| --- | EX WETLAND                                  |
| --- | PR BERM                                     |
| --- | PR ROAD                                     |
| --- | 100-YEAR FLOOD EXTENT AT CULVERT 7 UPSTREAM |

|         |             |     |         |
|---------|-------------|-----|---------|
|         |             |     |         |
| B       | S67         | JAW | 10/2025 |
| A       | S67         | AYC | 09/2025 |
| Rev     | Description | By  | Date    |
|         |             | By  | Date    |
| Survey  |             |     |         |
| Design  | EZ          |     | 03/2025 |
| Drawn   | EZ          |     | 03/2025 |
| Checked | RW/KH       |     | 03/2025 |

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Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**CULVERT 1-1  
100 YR FLOOD STORAGE  
PLAN**

|             |                                                 |
|-------------|-------------------------------------------------|
| Project no. | 147007                                          |
| Scale       | 1:1000 @ A3                                     |
| Cad file    | 147007-M-C481 TYPICAL CULVERT CROSS SECTION.DWG |
| Drawing no. | C485                                            |
| Rev         | B                                               |