

















































NOTES

ACU-08

1. THE DETAILS AND DIMENSIONS SHOWN ARE INDICATIVE AND WILL BE REFINED AS THE DETAIL DESIGN IS DEVELOPED.

0.4

0.0

0.1

CLIENT

2. A MINIMUM PIPE CLASS OF 4 HAS BEEN ALLOWED FOR ALL RCRRJ PIPES

LHS 10220 (AG RESEARCH ACCESS TRACK)

- A MINIMUM PIPE SIZE OF 750mm DIAMETER HAS BEEN ASSUMED FOR PIPE CULVERTS UNDER THE STATE HIGHWAY IN ACCORDANCE WITH AUSTROADS PART 5B. THIS IS TO MITIGATE POTENTIAL BLOCKAGE AND PROVIDE IMPROVED SAFETY FOR MAINTENANCE ACTIVITIES.
- 4. A MINIMUM BEDDING TYPE OF HS2 WILL BE PROVIDED FOR CIRCULAR PIPE CULVERTS, WHERE BEDDING CLASS HS3 WILL BE CONSIDERED FOR FILL HEIGHTS GREATER THAN 8m.
- 5. BEDDING FOR BOX CULVERTS WILL BE IN ACCORDANCE WITH AS1597.1 2010.
- 6. WHERE CULVERT LENGTHS EXCEED 120m AND FISH PASSAGE IS REQUIRED, A MINIMUM PIPE SIZE OF 1200mm DIAMETER HAS BEEN PROVIDED FOR IMPROVED ACCESS FOR MAINTENANCE ACTIVITIES.

600 Ø

- 7. WHERE CULVERTS REQUIRE EMBEDMENT FOR FISH PASSAGE, 25% OF CULVERT DIAMETER HAS BEEN ASSUMED TO BE EMBEDDED IN ACCORDANCE WITH NEW ZEALAND FISH PASSAGE GUIDELINES
- DISSIPATION STRUCTURES / OUTLETS HAVE BEEN SPECIFIED AND DESIGNED IN ACCORDANCE WITH HEC-14 FOR THE 1% AEP EVENT.
- 9. DEBRIS POTENTIAL OF CULVERTS ARE BASED ON HEC-9 GUIDELINES AND DEBRIS CONTROL MEASURES HAVE BEEN SIZED IN ACCORDANCE WITH HEC-9 FOR THE 1% AEP EVENT.

10. ALL ACCESS TRACK CULVERTS HAVE BEEN DESIGNED TO CONVEY THE 10% AEP STORM EVENT AND A PRELIMINARY ASSESSMENT HAS BEEN UNDERTAKEN TO ENSURE NO FLOODING UPSTREAM OR DOWNSTREAM OF THE CULVERTS WILL OCCUR IN ALL EVENTS, WHERE IT HAS BEEN DEEMED ACCEPTABLE FOR ACCESS TRACKS TO OVERTOP IN EVENTS EXCEEDING 10% AEP. MEASURES WILL BE PROVIDED TO MITIGATE POTENTIAL EROSION / PAVEMENT IMPACTS.

NO FISH PASSAGE REQUIRED

WAKA KOTAHI NZ TRANSPORT

Te Ahu a Turanga Manawatū Tararua Highway

295.7

297.1

REV DATE REVISION DETAILS APPROVED C 24/02/2020 ISSUED FOR REGIONAL CONSENT D. McGAHAN B 19/11/2019 ISSUED FOR CONCEPT DESIGN D. MACKINTOSH A 18/10/2019 CONCEPT DESIGN - DRAFT REVIEW D. MACKINTOSI

13

13.2%

1.4

RCRRJ PIPE HS2 SUPPORT, CLASS 4

SCALE SIZE CONSENT NOT TO SCALE A1 NOT FOR CONSTRUCTION D. LOW DATE J IRVINE T. WATTERSON T. WATTERSON D. HUGHES

ROJECT TITLE

SCRUFFY DOME

TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY

USBR VI IMPACT BASIN

2.0

N/A

3A

CROSS CULVERTS SCHEDULE

PROJECT No. PHASE TYPE DISC NUMBER TAT - 3 - DG - H - 1441







