TYPICAL STOCKWATER RACE

SIPHON PLAN

PIPE SIZE VARIES
300 - 450mmØ

WEIR STRUCTURE

STOP LOG STRUCTURE

PERFORATED CONCRETE BASE

STORMWATER BUND

FILTER MATERIAL

STORMWATER TREATMENT SWALE

MANHOLE WITH SCRUFFY DOME
(SIZE VARIES)

PIPE SIZE VARIES
450 - 1200mmØ

MANHOLE WITH SCRUFFY DOME
(SIZE VARIES)

WEIR STRUCTURE

STOP LOG STRUCTURE

RACE INVERT

EXISTING GROUND

PIPED SIZE VARIES
300 - 450mmØ

PIPED SIZE VARIES
450 - 1950mmØ

1050mmØ MANHOLE

2 x NOVA COIL 150mmØ

5m

STOCKWATER RACE

This drawing must not be used for construction unless signed as approved.

This Drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person.

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DO NOT SCALE

Note: * indicates signatures on original issue of drawing or last revision of drawing.

Plot Date: 17 October 2012 - 12:26 PM

Plotted by: Annie Porteous

A3 Scale

Rev: 0

Main South Road Pour Laying

TYPICAL DRAINAGE DETAILS - SHEET 1

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TYPICAL OVERLAND FLOW

SIPHON PLAN
SCALE 1:200 (A3)

NEW 1050mmØ MANHOLE

1500mmØ MANHOLE WITH SCRUFFY DOME

EXISTING OVERLAND FLOW PATH

STORMWATER TREATMENT SWALE

STORMWATER BUND

TIE CHANNEL INTO EXISTING

0.90m

0.50m

1500mmØ MANHOLE WITH SCRUFFY DOME

EXISTING GROUND

STORMWATER TREATMENT SWALE

STORMWATER BUND

SIPHON CROSS SECTION
SCALE 1:200 (A3)

1050mmØ MANHOLE WITH SCRUFFY DOME

EXISTING GROUND

PIPE SIZE VARIES
600 - 1200mmØ
GRADE 1:200

NEW 1050mmØ MANHOLE

DIST VARIES

2 x 150mmØ NOVA COIL

SIPHON DISPOSAL SECTION
SCALE 1:200 (A3)

1500mmØ MANHOLE WITH SCRUFFY DOME

EXISTING GROUND

PIPE SIZE VARIES
600 - 1950mmØ

600 - 1950mmØ
GRADE 1:200

FOR CONSENT

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DO NOT SCALE

Plot Date: 17 October 2012  -  12:37 PM
Plotted by: Annie Porteous

A3 Scale
SOAK PIT DETAILS
WHERE FIRST FLUSH POND NOT REQUIRED

TOPSOIL
0.15m
TOPSOIL
0.15m
TOPSOIL
0.15m

150mm Ø NOVA COIL

20/7 FILTER MATERIAL

FLUSHING PIT
WITH SOLID LID

NOVA COIL PIPES IN A TRENCH AS
PER SECTION A-A

1050mm Ø MANHOLE WITH SCRUFFY DOME
AND PERFORATED CONCRETE BASE

BUND TO TOP OF SWALE
1:200 FALL
SCRUFFY DOME TO BE
REPLACED BY PERFORATED
FLUSH LID WHEN LOCATED IN
CLEAR ZONE

TOP OF BUND
TOP OF SWALE
1.0m
1.0m
1.0m
1.0m
1.0m

TOTAL LENGTH VARIES WITH FLUSHING PITS AT MAXIMUM 50m SPACINGS

2m WIDTH SOAKAGE AREA
3m WIDTH SOAKAGE AREA
4m WIDTH SOAKAGE AREA

FOR CONSENT

NEW ZEALAND TRANSPORT AGENCY
SH1 REGHOM 11 RP3582/3.92 TO RP3582/11
CHRISTCHURCH SOUTHERN MOTORWAY STAGE 2
TYPICAL DRAINAGE DETAILS - SHEET 3 OF 5

DRAWING NO: 62236-B-C453  SHEET 3 OF 5
LONGITUDINAL SECTION ON CONTROL STRING MCA0

SCALE HORIZ=1:2000 VERT=1:100 @ A1

LEGEND

- EXISTING GROUND
- DESIGN ROAD CENTRELINE
- DESIGN SWALE INVERT LEVEL (LEFT & RIGHT)
- SWALE IMITATION (2.3m)
- AVERAGE GROUNDWATER LEVEL JAN '11 (OBSERVED)
- ASSUMED HIGH GROUNDWATER LEVEL (INCL. CENTRAL PLAINS WATER ALLOWANCE)
- 1m CLEARANCE FROM HIGH WATER TABLE
- 50% PREDICTED GROUNDWATER LEVEL (INCL. CENTRAL PLAINS WATER ALLOWANCE)
- MAX GROUNDWATER PROFILE WITH LOWERING STRATEGY IN PLACE. I.E. GROUNDWATER PROFILE WITH PUMPING TO MAX EXTRACTION RATE OF 100l/s
- GROUND WATER PROFILE WITH GROUND WATER LOWERING STRATEGY IN PLACE. I.E. INTERCEPT GROUND WATER AND DIVERT TO UPPER KNIGHTS STREAM

* SYMBOLS REFERENCED ARE DIAGRAMMATIC ONLY AND NOT TO SCALE

DO NOT SCALE

FOR CONSENT

NEW ZEALAND TRANSPORT AGENCY
SH1 REGION 11 RP355/3.92 TO RP365/2.11
MAIN SOUTH ROAD FOUR LANEING
GROUNDWATER LONGITUDINAL SECTIONS

62236-B-C461

Plot Date: Cad File No: 8 April 2013 - 3:49 p.m. C:\Users\JAL\Documents\3390691-CPSM2\Drawings_PostSubmission\Drawings\62236-B-C461.dwg
Plotted by: James Long

A1 Scale

A3 Scale