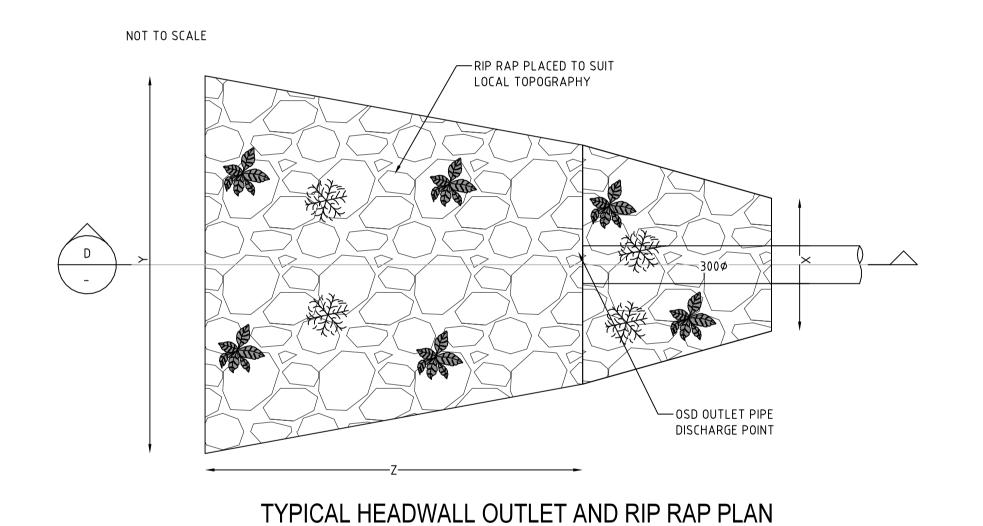


RIP RAP SIZING	Q10 (L/s)	VELOCITY (m/s)	DIA (mm)	X (mm)	Y (mm)	Z (mm)	d50 (mm)	RANGE (mm)	MINIMUM RIP RAP ROCK THICKNESS (mm)
TYPICAL HW	34	1.93	150	CULVERT APRON WIDTH + TBC	ТВС	ТВС	ТВС	ТВС	ТВС

TYPICAL RIP RAP SIZING

RIP RAP GEOMETRY TO BE CONFIRMED AT DETAIL DESIGN STAGE PIPE FLOW RATE BASED ON INDICATIVE 150MM PIPE AT 5% GRADE. FLOW RATE AND VELOCITY TBC AT DETAIL DESIGN STAGE.



NOT TO SCALE

VOIDS PACKED WITH TOPSOIL OUTLET TO CREEK ABOVE — 100YR ARI WATER LEVEL PLANTED WITH LOCAL — SEDGES AND RUSHES — GEOTEXTILE LINER (TYPE E)

ROCK ARMOURING. MAIN ROCK SIZE ——

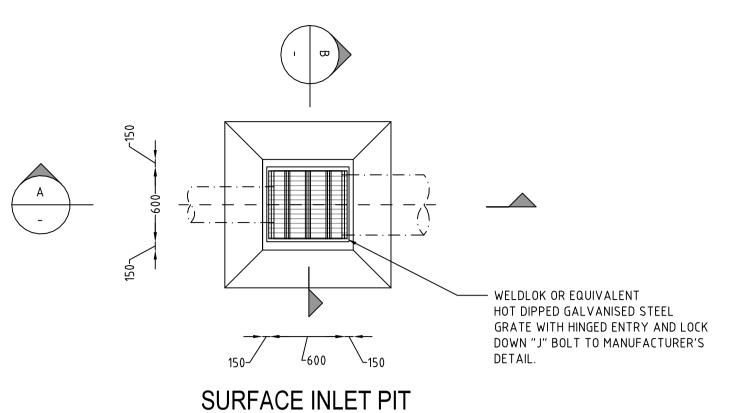
SEE TABLE THIS SHEET.

TYPICAL HEADWALL OUTLET AND RIP RAP SECTION D

STACKED ROCK ——

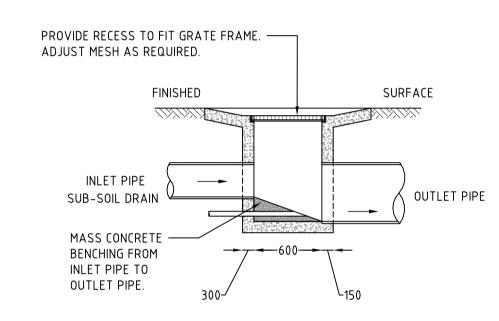
HEADWALL

NOT TO SCALE



NOT TO SCALE

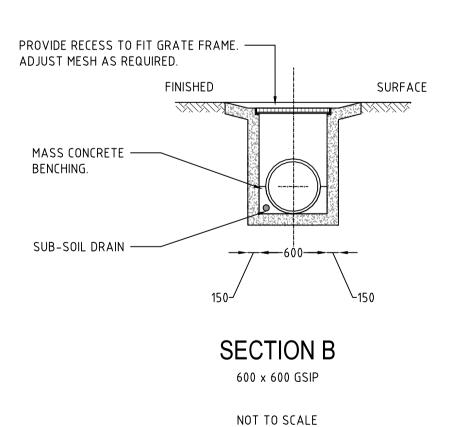
ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2m DEEP AS MEASURED FROM THE TOP OF GRATES TO THE INVERT OF THE PIT.



SECTION A

GRATED SURFACE INLET PIT (600 x 600 GSIP)

NOT TO SCALE



GENERAL NOTES:

NOT FOR CONSTRUCTION - TYPICAL DETAILS ONLY.

FINAL ENERGY DISSIPATOR/RIP RAP SIZING AND CHARACTERISTICS TO BE PROVIDED AT DETAILED DESIGN STAGE. 1. COMPACT THE SUBGRADE FILL TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.

2. PREPARE A SMOOTH, EVEN FOUNDATION FOR THE STRUCTURE THAT WILL ENSURE THAT THE CLASS E GEOTEXTILE DOES NOT SUSTAIN SERIOUS DAMAGE WHEN COVERED WITH ROCK. 3. SHOULD ANY MINOR DAMAGE TO THE GEOTEXTILE OCCUR, REPAIR IT BEFORE SPREADING ANY AGGREGATE. FOR REPAIRS, PATCH ONE PIECE OF FABRIC OVER THE DAMAGE, WITH ALL JOINTS AND PATCHES OVERLAPPING MINIMUM

300 mm. 4. RIP-RAP MEAN SIZE (d50) FROM TABLE PROVIDE AS BLENDED RANGE OF DIAMETERS BEDDED ON 50mm LAYER OF 10-20mm AGGREGATE OVER CLASS E GEOTEXTILE.

5. RIP-RAP KEYED INTO BANKS & BED MINIMUM 300mm.

REV DESCRIPTION DRAWN DESIGNED CHECKED APPRVD SCALE PROJECT MANAGER | CLIENT A FOR DA – ADDRESS COUNCIL LETTER DATED 24/10/2016 23/11/2016 BL GT CARISTE PTY LTD PROJECT NAME/PLANSET TITLE DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by SUBDIVISION WORKS principal certifying authority. All measurements in millimetres unless otherwise specified. SUBDIVISION, DRIVEWAY AND DRAINAGE WORKS This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. 62 HILLSIDE ROAD, NEWPORT NSW LOT 1 DP408800 (C) Copyright Martens & Associates Pty Ltd

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NATURAL GROUND LEVEL ----

DEVELOPMENT APPLICATION ENERGY DISSIPATOR/RIP RAP TYPICAL DETAILS

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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

