

STRUCTURE NAME	STRUCTURE DESCRIPTION
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NOTE:
EASTINGS AND NORTHINGS SHOWN ON LONG SECTION ARE FOR INTERSECTION OF PIPES. REFER TO DRAWINGS C052 FOR STRUCTURE SETOUT DETAILS.

NOTE:
CONTRACTOR TO CONFIRM LEVELS AND
LOCATION OF ALL EXISTING SERVICES
PRIOR TO CONSTRUCTION

NOTE:
FIXED OUTLET WATER LEVEL AT STRUCTURE
'OUT' IS FIXED TO MEAN HIGH WATER
SPRINGS LEVEL = 1.05m AHD.

NOTE:
ALL STEEL REINFORCED CONCRETE PIPES
AND STRUCTURES TO HAVE
ADDITIONAL/SACRIFICIAL CONCRETE
COVER TO REINFORCEMENT TO SUIT A
SALTWATER ENVIRONMENT
N50/50 COVER

WATER LEVEL IN STRUCTURE	
HYDRAULIC GRADE LEVEL	
PIPE FLOW (Cumecs)	
PIPE CAPACITY AT GRADE (Cumecs)	
DEPTH TO INVERT	
INVERT LEVEL OF DRAIN	
DESIGN SURFACE LEVEL	
EASTING (NORTHING)	
RUNNING CHAINAGE	

LINE

REV.	DATE	AMENDMENT / ISSUE	PREP'D BY	CHECKED BY	APPROVED BY
H	07.10.09	ISSUE FOR OPERATIONAL WORKS	AR	KR	NR
G	25.09.09	WDC ISSUE	AR	KR	NR
F	19.08.09	REISSUE FOR APPROVAL	AR	KR	NR
E	01.07.09	REISSUE FOR CONSTRUCTION	AR	KR	NR
D	05.05.09	FOR CONSTRUCTION	AR	KR	NR

APPROVED	CHECKED
NICK ROZIS 7729 * * * * * APPRO	N. ROZIS * * * * *
DATE 05.05.2009	DATE 05.05.2009

BORNHORST + WARD
Bornhorst & Ward Pty Ltd
Brisbane Australia

CONSULTING ENGINEERS

CIVIL AND STRUCTURAL

Level 4, 67 Astor Terrace, Spring Hill, QLD 4000

Phone (07) 3013 4699
Facsimile (07) 3013 4611
www.bornhorstward.com.au
A/N 883855134

 A/N 883855134

CLIENT
HAMILTON HARBOUR UNIT
TRUST

PROJECT
HAMILTON HARBOUR

SUBJECT		SCALE	
STORMWATER LONGITUDINAL SECTION		AS NOTED	DATE, SIZE
			A1
JOB NO.		DRAWING NO.	
07224		C051 H	
REVISION			

[illegible][illegible][illegible]

0.000	1155.732	2.821				2.566	2.566				EXISTING	6/1
18.523	(968.310)		1.130	1.691	0.528	0.593	1.896	1.554	1.32	0.22%	EXISTING	7/1
8.327	(954.134)		0.490		0.956	0.593	1.544		0.68	0.12%	1.2m CHAMBER	2.1
8.327	1141.601	3.140	0.480	2.660			1.213	1.213			EXISTING	
	(946.105)						1.149				3.2m X 1.5m CHAMBER	

NOTE: DETAILS OF EXISTING PIPEWORK
AS PER SKM PORTSIDE DRAWINGS
EW-C-003-A AND EW-C-007-A.

0.12%	referred to in the ULDA
8/2/0	
2.68	APPROVAL dated 18/11/09

STORMWATER LONGITUDINAL SECTIONS

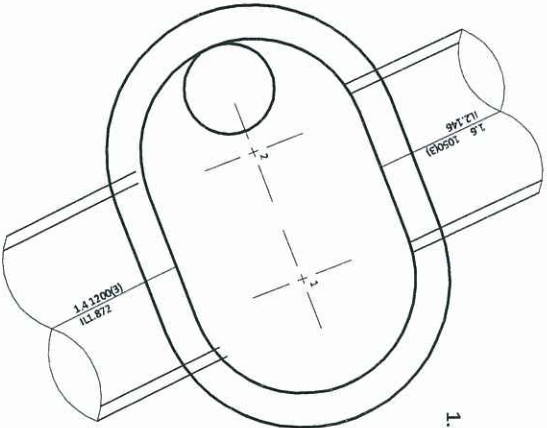
DINOMICS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CLIMBER AND PIPE SIZES IN MILLIMETRES		AL/UNREDUCED A3/REDUCED
SCALES		
A		UNREDUCED / REDUCED 1:1,000 / 1:2,000
B		1:100 / 1:200



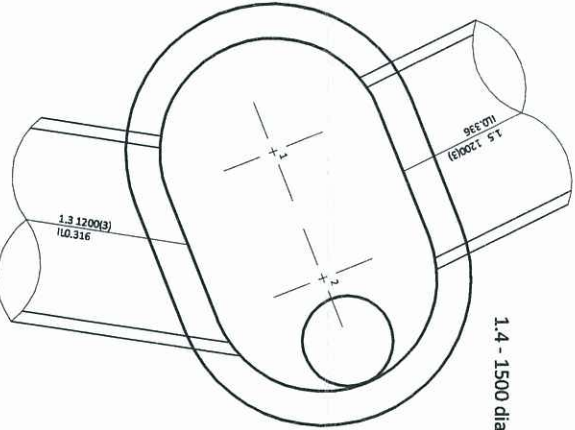
100mm BEFORE REDUCTION

STRUCTURE SETOUT				
STRUCTURE NO.	SETOUT 1		SETOUT 2	
	EASTING	NORTHING	EASTING	NORTHING
1.5	1137.002	1111.190	1136.167	1110.864
1.4	1166.668	1049.737	1167.500	1050.078
1.3	1160.452	1002.680	1161.310	1002.406
1.2	1156.012	989.042	1156.860	988.741
1.1	1138.639	969.469	1137.772	969.710
2.1	1143.211	946.477	-	

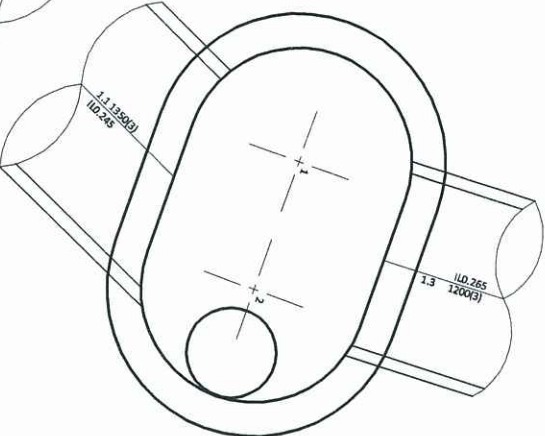
1.5 - 1500 dia EXT 900



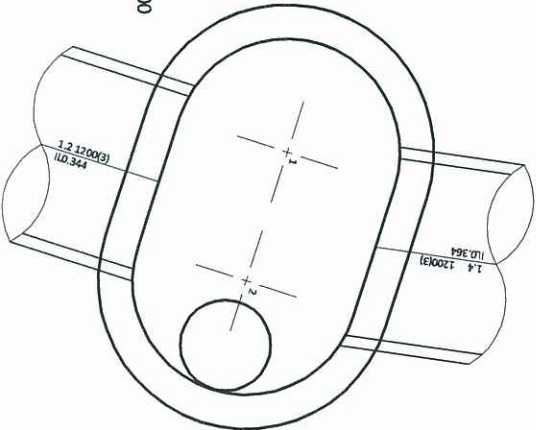
1.4 - 1500 dia EXT 900



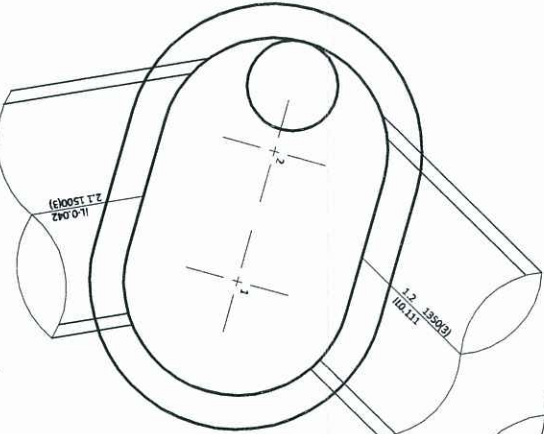
1.2 - 1500 dia EXT 900



1.3 - 1500 dia EXT 900

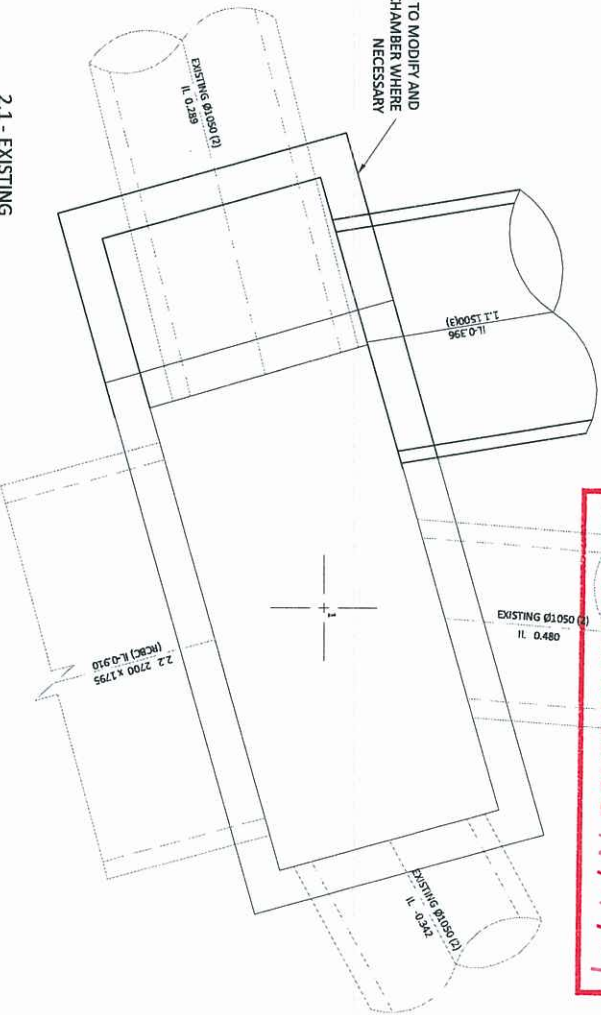


1.1 - 1500 dia EXT 900



CONTRACTOR TO MODIFY AND
EXTEND CHAMBER WHERE
NECESSARY

2.1 - EXISTING



NOTE:
EXISTING STRUCTURE 2.1 NOT SURVEYED. EXTENTS
AND LOCATION TO BE DETERMINED BY CONTRACTOR
ON SITE PRIOR TO COMMENCEMENT OF WORKS.

NOTE: STORMWATER CHAMBERS DESIGNED AS PER
BCC STANDARD DRAWINGS UMS 321 AND UMS 323.
IF CUSTOM CHAMBERS ARE TO BE USED, DESIGN AND
CERTIFICATION IS REQUIRED TO BE PROVIDED BY THE
CONTRACTOR PRIOR TO THE COMMENCEMENT OF
CONSTRUCTION

PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 18/11/09

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APPROVED		CHECKED	
NICK ROZIS	7729	N. ROZIS	
DATE 05.05.2009	REFD	DATE 05.05.2009	

ASSOCIATED CONSULTANTS		BORNHORST + WARD CONSULTING ENGINEERS	
Level 4, 67 Astor Terrace, Spring Hill, QLD 4000		Bornhorst & Ward Pty Ltd Brisbane, Australia Phone: (07) 3013 4699 Fax: (07) 3013 4611 Email: mail@bornhorstward.com.au Web: www.bornhorstward.com.au A/CN 900 31184 A/N 900 31184	

CLIENT		PROJECT	
HAMILTON HARBOUR UNIT TRUST		HAMILTON HARBOUR	

SUBJECT		SCALE	
STORMWATER STRUCTURES DETAIL PLAN SHEET 1		AS NOTED 07224	
DRAWING No.		REVISION	
C052		H	



ALL CONTOURS HAVE BEEN
GENERATED FROM BCC RECORDS.

NOTE:
CATCHMENT PLAN INDICATES UPSTREAM CONTRIBUTING CATCHMENTS, DISCHARGING TO SITE. REFER TO BORNIHORNST & WARD HYDRAULIC AND FLOOD ANALYSIS REPORT FOR DETAILS OF CATCHMENT CONDITIONS AND DRAINAGE.

PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 18/11/09

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