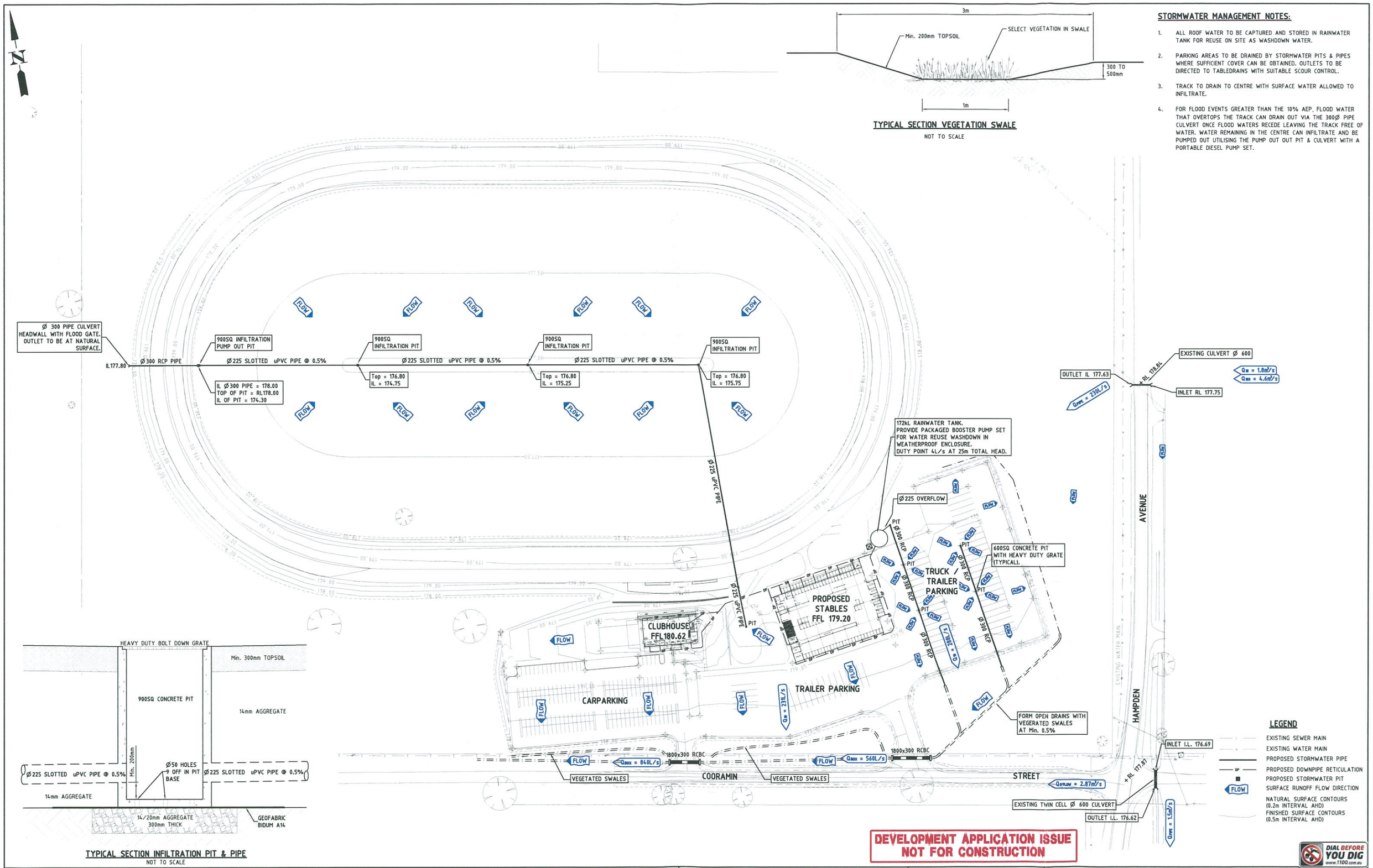

TYPICAL SECTION VEGETATION SWALE

NOT TO SCALE

STORMWATER MANAGEMENT NOTES:

1. ALL ROOF WATER TO BE CAPTURED AND STORED IN RAINWATER TANK FOR REUSE ON SITE AS WASHDOWN WATER.
2. PARKING AREAS TO BE DRAINED BY STORMWATER PITS & PIPES WHERE SUFFICIENT COVER CAN BE OBTAINED. OUTLETS TO BE DIRECTED TO TABLEDRAINS WITH SUITABLE SCOUR CONTROL.
3. TRACK TO DRAIN TO CENTRE WITH SURFACE WATER ALLOWED TO INFILTRATE.
4. FOR FLOOD EVENTS GREATER THAN THE 10% AEP, FLOOD WATER THAT OVERTOPS THE TRACK CAN DRAIN OUT VIA THE 300Ø PIPE CULVERT ONCE FLOOD WATERS RECEDE LEAVING THE TRACK FREE OF WATER. WATER REMAINING IN THE CENTRE CAN INFILTRATE AND BE PUMPED OUT UTILISING THE PUMP OUT OUT PIT & CULVERT WITH A PORTABLE DIESEL PUMP SET.

TYPICAL SECTION INFILTRATION PIT & PIPE

NOT TO SCALE

No.	DATE	AMENDMENT DESCRIPTION	APP'D
B	1/12/14	GENERAL AMENDMENT	R.A.H.
A	4/09/14	ISSUED FOR DEVELOPMENT APPLICATION	R.A.H.

SURVEY:	CRAIG JAQUES	DATE:	NOV. 2013
DESIGN:	J.D.T.	DATE:	AUG. 2014
DRAWN BY:	J.D.T.	DATE:	AUG. 2014
CHECKED BY:		DATE:	

SCALES: 10 0 10 20 30 40 50m
SCALE 1:1000 (A1)
1:2000 (A3)

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CLIENT: Harness Racing NEW SOUTH WALES

PROJECT: PROPOSED HARNESS RACING CLUB FACILITY DEVELOPMENT TO LOTS 1-6 & 19-24 (DP 2655) COORAMIN STREET & HAMPDEN AVENUE, WAGGA WAGGA

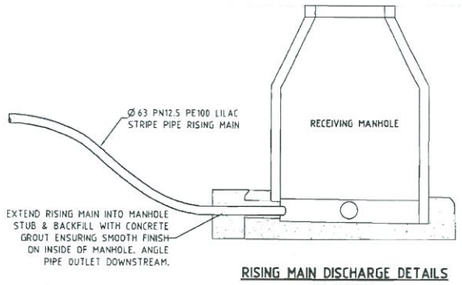
JOB No. 13-065

DRAWING No. 13065-H01DA

DRAWING TITLE: STORMWATER MANAGEMENT PLAN

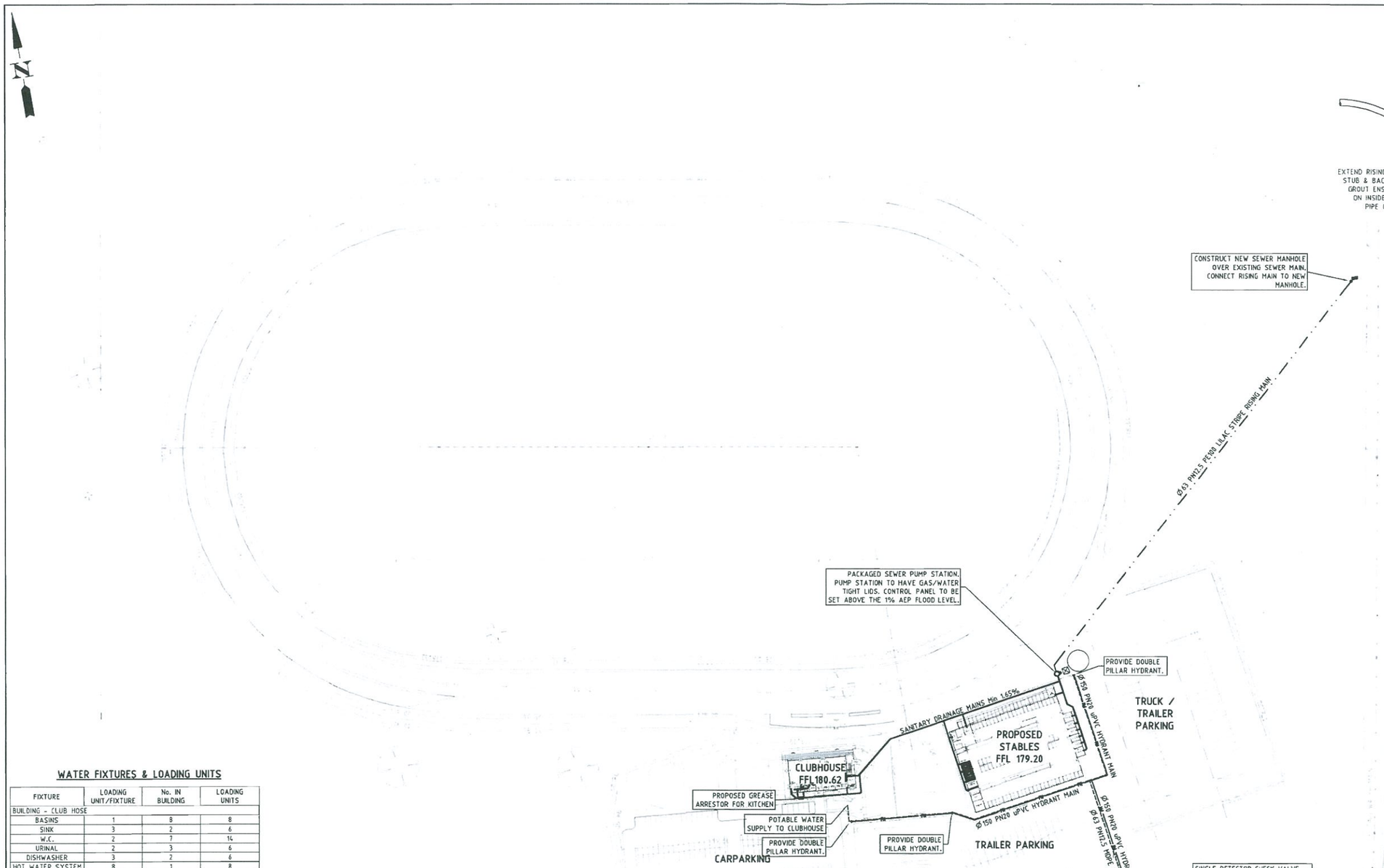
Sheet No. 14 of 15 Sheets

REV. B



RISING MAIN DISCHARGE DETAILS

NOT TO SCALE



PRELIMINARY SEWAGE PUMP STATION DESIGN INFORMATION

PEAK DRY WEATHER FLOW	= 1.63L/s (EQUAL TO PROBABLE SIMULTANEOUS WATER SUPPLY FLOW RATE FOR THE SITE)
DUMP DUTY	= 1.7L/s @ 10m HEAD
RISING MAIN	= 63mmØ PN12.5 PE100 PIPE
WELL DIAMETER	= 2.4m
RL TOP OF PUMP STATION WELL	= 179.20
INVERT LEVEL OF PUMP WELL	= 175.60
STORAGE AVAILABLE IN WELL	= 15,000 LITRES
ALLOWANCE OF 20 LITRES/PATRON WITH Ave. 300 PATRONS	= 6,000 LITRES
ALLOWANCE OF 20 LITRES/PATRON WITH Max. 1000 PATRONS	= 20,000 LITRES

PUMP AND MOTOR DATA
MAKER: FLYGHT OR EQUAL
TYPE: GRINDER MP3068 OR EQUAL (2 OFF - DUTY & STANDBY)
CAPACITY: 2.0 L/s
HEAD: 10 m
IMPELLER: -
MOTOR: 1.7 kW (415 volt, 3 phase, 50 Hz)

PACKAGED PUMP STATION DATA
MAKER: -
TYPE: FIBRE REINFORCED PLASTIC
TANK DIMENSIONS: 2.4mØ x 3.6m DEEP
INTERNAL PIPES : 50mmØ HDPE
STANDARD EQUIPMENT: GATIC GAS TIGHT COVERS WITH REMOVABLE SAFETY MESH SCREENS UNDER, INTEGRAL VALVE CHAMBER, FLUSH VALVE, MULTITRODE MT2PC CONTROLLER AND ROD, BRACKETS, UPPER GUIDE BAR BRACKETS, DISCHARGE CONNECTIONS, GUIDE RAILS, STAINLESS STEEL CHAIN HOOKS AND GALVANISED PUMP LIFTING CHAINS.
CONTROL PANEL: LOCKABLE WEATHERPROOF DUAL PUMP CONTROL PANEL, MANUAL OFF AUTO, AUTO ALTERNATION, HIGH LEVEL ALARM WITH FLASHING LIGHT AND MULTITRODE MT2PC CONTROLLER. PANEL DIMENSIONS TBC.

WATER FIXTURES & LOADING UNITS

FIXTURE	LOADING UNIT/FIXTURE	No. IN BUILDING	LOADING UNITS
BUILDING - CLUB HOSE			
BASINS	1	8	8
SINK	3	2	6
W.C.	2	7	14
URINAL	2	3	6
DISHWASHER	3	2	6
HOT WATER SYSTEM	8	1	8
HOSE TAP	4	1	4
			52
BUILDING - STABLES	0	0	0
BASINS	1	5	5
SINK	3	2	6
W.C.	2	5	10
URINAL	2	2	4
HOT WATER SYSTEM	8	2	16
HOSE TAP	8	10	80
SHOWERS	2	2	4
			125
TOTAL LOADING UNITS			177
PROBABLE SIMULTANEUS FLOW RATE (PSFR) TABLE 3.3 AS3500.1			1.63 L/s
FIRE HOSE REEL FLOW - 2 FIRE HOSE REELS REQUIRED TO OPERATE SIMULTANEOUSLY @ 0.33L/s/REEL			0.66 L/s
TOTAL FLOW REQUIRED FOR THE SITE			2.29 L/s
WATER METER SIZE REQUIRED = DN50			

FIRE SYSTEM DESIGN NOTES:

1. STABLE BLOCK FIRE COMPARTMENT FLOOR AREA = 2300m². CLUBHOUSE FIRE COMPARTMENT FLOOR AREA = 540m².
2. BUILDING CLASSIFICATION - SUBJECT TO CONFIRMATION BY PCA.
3. TWO HYDRANT OUTLETS REQUIRED TO OPERATE WITH A TOTAL FLOWRATE OF 20L/s.
4. FIRE HOSE REELS REQUIRED.
5. NO ALLOWANCE MADE FOR SPRINKLER FLOWS.
6. FIRE BRIGADE BOOSTER ASSEMBLY REQUIRED AS FIRE COMPARTMENT AREA EXCEEDS 2000m².
7. WATER PRESSURE CERTIFICATE TO BE OBTAINED FROM RIVERINA WATER COUNTY COUNCIL.

LEGEND

- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORMWATER PIPE
- PROPOSED SEWAGE RISING MAIN
- PROPOSED SANITARY DRAINAGE
- PROPOSED DOMESTIC WATER SUPPLY
- PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT LINE
- NATURAL SURFACE CONTOURS (0.2m INTERVAL AHD)
- FINISHED SURFACE CONTOURS (0.5m INTERVAL AHD)

DEVELOPMENT APPLICATION ISSUE
NOT FOR CONSTRUCTION

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No.	DATE	AMENDMENT DESCRIPTION	APP'D
A	4/09/14	ISSUED FOR DEVELOPMENT APPLICATION	R.A.H.

SURVEY: CRAIG JAQUES	DATE: NOV. 2013	SCALES: 10 0 10 20 30 40 50m; SCALE 1:1000 (A1) 1:2000 (A3)	
DESIGN: J.D.T.	DATE: AUG. 2014		
DRAWN BY: J.D.T.	DATE: AUG. 2014	This drawing remains the property of Heath Consulting Engineers and may not be used for any other purpose than for that which the drawing is supplied. It must not be copied, reproduced or disclosed to a third party without the written consent of Heath Consulting Engineers.	
CHECKED BY:	DATE:		

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Sheet No. 15 of 15 Sheets

JOB No.	DRAWING No.	DRAWING TITLE:	REV.
13-065	13065-H02DA	SEWER DRAINAGE & WATER RETICULATION LAYOUT	A