DIMENSIONS IN MILLIMETRES DO NOT SCALE		AMENDMENT NOTE		DATE
THIS DRAWING MUST NOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT APPROVAL FROM SHERSON LAUTIER CONSULTANCY	A	NEW SITE LAYOUT ADDED. ADDITIONAL INFO FOR WCC PROVIDED. STORMWATER AMENDED TO SUIT	MDM	11-4-11

A B C D E F G H J K L M N P Q R S T U V W X

6800 TYP.

EXISTING MM KEMBLA GATE VALVE PIT WITH 900Ø PIPE DISCHARGING INTO LOT 102 TO REMAIN. AS IS 900Ø PIPE IN LOT 102

NOTE THE PROVISION OF THIS EASEMENT INCUDING ITS LOCATION IS SUBJECT TO AGGREEMENT OF BOTH BURDENED PROPERTY OWNERS

EXISTING MM KEMBLA GATE VALVE PIT WITH 900Ø PIPE DISCHARGE REDUCED TO 450Ø IN LOT 102 + ADDITIONAL HIGH LEVEL 300Ø PIPE

NOTE ADJACENT CROSSFALL TO KERB AND GUTTER FORMS OVERFLOW PATH NORTH TO DARCY ROAD FROM MM KEMBLA SITE GATE VALVE PITS ARE CLOSED

1A 1B

IBC STORAGE (BUNDED)

LPG WASTE GEN WASTE

RESIN 1781 (BUNDED)

SODIUM ALUMINATE (BUNDED)

INTEGRAL ENERGY SUB STATION

EXISTING 450Ø RCP TO REMAIN

375Ø RIBLOC 1% 375Ø RIBLOC 1% 375Ø RIBLOC 1% 300Ø RIBLOC 1% 300Ø RIBLOC 1% 225Ø RIBLOC 300Ø RCP

CLAY PCR BAY

GUNNING TRIAL BOX

NOTE CREATE EASEMENT TO DRAIN WATER 1.20M. WIDE IN FAVOUR OF LOTS AS PER ORIGINAL EASEMENT AND DEPOSITED PLAN.

REMOVE CONCRETE SURROUND RISER AND DROP PIT LEVEL TO R.L. 6.600 AS SHOWN

CONSTRUCT NEW PIT OVER EXISTING CONC PIPE AND MAKE GOOD

EXIST 900 RCP TO REMAIN

4500 RIBLOC OR RCP 1.5%

GPT 1

450Ø RIBLOC 1.5%

300Ø RIBLOC 1% WATER TREATMENT PLANT AREA DIESEL PALLET STORAGE 225Ø UPVC 1% 150Ø UPVC 1% 150Ø UPVC 1% 225Ø UPVC 1% LOADING / UNLOADING AREA AWNING 300Ø RIBLOC 1%

QROOF 10 =110L/S 300Ø RIBLOC 1.5% FALL

300Ø RIBLOC 1.5% FALL Q10 = 69L/S

ROAD

WIDEN EXISTING DRIVEWAY TO THE REQUIREMENTS OF WOLLONGONG CITY COUNCIL

EMERGENCY OVERFLOW PATH TO DARCY ROAD VIA DRIVEWAY ENTRY

15T O/HEAD CRANE

PROPOSED BUILDING F.F.L. 6.800

PRODUCTION AREA

REMOVE CONCRETE SURROUND RISER AND DROP PIT LEVEL TO SUIT NEW PAVEMENT RLS AS NECESSARY

102 1.034 ha

101 8031m²

6m HIGH SL / DR

6m HIGH WALL

8026m²

F.F.L. 6.800

EXISTING EASEMENT IS TO BE EXTINGUISHED AND MADE REDUNDANT. NOTE NO PIPEWORK IS PRESENT IN EASEMENT

Easement to Drain Water Over Existing Line of Pipes (approximate position)

Easement to Drain Water (to become redundant approximate position)

3750 1.5% FALL Q=220L/S

EXISTING DRIVEWAY

EMERGENCY OVERFLOW PATH TO DARCY ROAD VIA DRIVEWAY ENTRY

ON SITE DETENTION HAS NOT BEEN PROVIDED DUE TO THE PROXIMITY OF THE DEVELOPMENT TO THE OCEAN THE LOCATION OF THE SITE HAVING NO DOWNSTREAM PROPERTYS AFFECTED BY IT. AND IN ACCORDANCE WITH WCC SECTION 12.1.2 (i) NO BENEFIT WILL BE AFFORDED BY THE PROVISION OF OSD.

PROVIDE PILING AND OR PIERING OF NEW BUILDING AS SPEC. BY THE BTRUCTURAL ENGINEER ADJACENT TO THE EXISTING EASEMENT SUBJECT TO EXACT LOCATION OF PIPE.

OVERLOW PATH TO DRIVEWAY

GRADE 1:34

BICYCLE PARKING (18 SPACES) TO COMPLY WITH AS2890.3-1993.

BREAK INTO EXIST. LINE & MAKE GOOD

GRADE 1:20

225Ø UPVC 1% 300Ø RIBLOC 1% F.F.L. 6.800 PROPOSED OFFICE LAB AREA

HEATER & PUMP

Female Male Recep.

150Ø UPVC 1.5% Q10 = 20L/S. 150Ø UPVC 1% 150Ø UPVC 1% Q10=15L/S.

300Ø RIBLOC Q10 =110L/S

300Ø RIBLOC 1% Q = 70L/S.

GPT 2

300Ø RIBLOC Q10 = 116 L/S 1.5%

DARCY

www.dialbeforyoudig.com.au DIAL 1100 BEFORE YOU DIG

EXISTING 450Ø RCP TO REMAIN APPROX. CAPACITY = 360L/S.

EXISTING 375Ø RCP FROM KIP TO BE EXCAVATED TO PROPERTY LINE AND EXTENT AND INTEGRITY DETERMINED REPLACE WITH 450Ø WHERE NECESSARY

EXISTING KIP TO REMAIN

EXISTING 600Ø RCP TO REMAIN CAPACITY = 870L/S.

EX 150Ø

TRANSFORMER

EMERGENCY OVERFLOW TO GLOUCESTER BOULEVARDE

EMERGENCY OVERFLOW TO GLOUCESTER BOULEVARDE

EXISTING CAPACITY OF 900Ø RCP @ 1.2% FALL = 2.5 CUMECS TOTAL COMBINED

GLOUCESTER BOULEVARDE

POND FOR GREEN AND GOLDEN BELL FROG WITH SURROUNDING FENCE.

BEACH

SCHEMATIC STORM WATER LAYOUT

SCALE 1:100

NOTE EXISTING SURFACE LEVELS SHOWN THUS 6.50

DESIGN SURFACE LEVELS SHOWN THUS +10.100

UNLESS SHOWN OR NOTED OTHERWISE ALL AG. P.V.C. DRAINS TO BE 100 DIA. 1% MIN. FALL TO STORM WATER LINES OR PITS

ALL AG DRAINS ARE TO HAVE FILTER SOCKS PROVIDED AS PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS

NOTE ALL BOX GUTTERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AS/NZ 3500.3:2003 WITH FULL WIDTH OVERFLOWS AT ENDS

NOTE ALL REDUCED LEVELS ARE TO AHD AUSTRALIAN HEIGHT DATUM

NOTE EXACT R.L.S. OF UNDERGROUND UTILITIES ARE UNABLE TO BE VERIFIED DUE TO VARIABLE DEPTHS AND UNAVAILIBILITY OF WAX INFORMATION. ALL ABOVE GROUND SERVICE ACCESS POINTS HAVE BEEN LOCATED ON THE SURVEY PLAN.

LEGEND

- FLUSH MOUNTED SURFACE GRATE AS SPECIFIED TO ACCOMODATE 100 Ø OUTLET MIN.
- OUTLET POINT IN LANDSCAPE AREAS TO SUIT ATLANTIS DRAINAGE CELL
- GRATED PIT PLAN HEAVY DUTY GALV. METAL GRATE
- BEAM PENETRATION FOR PIPEWORK
- CONCRETE COVERED PIT
- STORM TECH DRAIN

RECEIVED 09 MAY 2011 CUSTOMER SERVICE

PROPOSED INDUSTRIAL BUILDING
LOT 101, 102 & 103 DP 839149
CNR DARCY RD AND GLOUCESTER BVDE
PORT KEMBLA
FOR: WAREHOUSE KING

DATE 20-7-2010
DRAWN MDM
CHECKED
ENGINEER

SCHEMATIC STORM WATER LAYOUT

SCALES 1:300 @ A1 1:200 @ A3

SHERSON LAUTIER CONSULTANCY PTY. LTD.
CONSULTING ENGINEERS email: sherson@1earth.net
16 BELMORE STREET WOLLONGONG NSW 2500
Phone. 42 285122
Fax. 42 291572
A.C.N. 093 798 328
A.B.N. 91 093 798 328

DRAWING No. A 10100-C2
No. OF SHEETS 4

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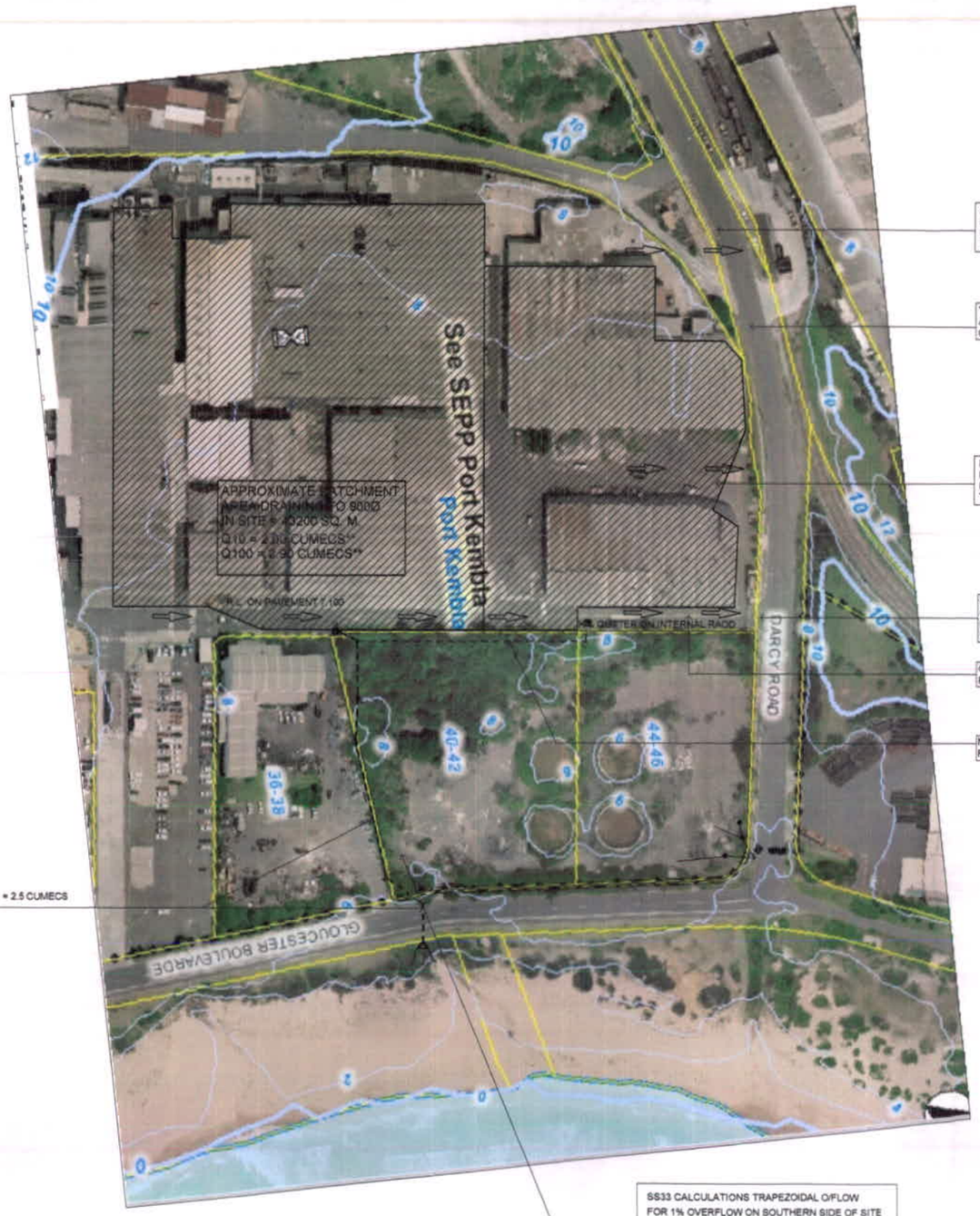

NOTE EXTREME STORM EVENTS DIVERT FLOWS NORTH ON INTERNAL ROADS TO DARCY ROAD STREET DRAINAGE

** NOTE CATCHMENT AREA IS APPROXIMAT ONLY AND IS TAKEN FROM MM METALS DRAWING NUMBER CAD NO. L-507 DATED 14-6-1985

NOTE EXTREME STORM EVENTS DIVERT FLOWS NORTH ON INTERNAL ROADS TO DARCY ROAD STREET DRAINAGE

NOTE ADJACENT CROSSFALL TO KERB AND GUTTER FORMS OVERFLOW PATH NORTH TO DARCY ROAD FROM MM KEMBLA SITE GATE VALVE PITS ARE CLOSED OR OPEN

SS33 CALCULATIONS
FOR 1% OVERFLOW NORTH TO DARCY ROAD OVER 8.00M. WIDE INTERNAL ROAD PAVEMENT
n = 0.012
Q100 = 0.700 CUMECS OVERFLOW**
(Yn) D = 0.058 m. (Yc) Critical = 0.092 m.
vn = 1.512m/s vc = 0.951m/s

OVERFLOW PATH OF 8.00M. WIDE CARRIES FLOWS IN EXCESS OF 900Ø CAPACITY

NOTE PREVIOUS UNDEVELOPED SITE LEVELS FORMED NATURAL BUND ON WESTERN BOUNDARY

IFD DATA FOR RAREWIN (WOLE1)
Q10 6min = 178mm/hr
Q50 6min = 235mm/hr
Q100 6min = 259mm/hr

900 DIA. PIPE CAPACITY IN LOT 102
Q10 CAPACITY = 2.5 CUMECS AT OUTLET**

TOTAL DISCHARGE FROM ADJOINING LOT (MM SITE)
AND TOTAL DISCHARGE FROM PROPOSED DEVELOPMENT
Q10 = 2.00 CUMECS (MM SITE) + 0.469 CUMECS PROPOSED SITE = 2.469 cumecs
PIPE CAPACITY IS ADEQUATE

NOTE TOTAL OUTFLOW FROM SITE IS AT GLOUCESTER ROAD KERB INLET PIT

Q10 = 2.469 CUMECS
Q50 = 2.59 CUMECS
Q100 = 3.580 CUMECS

NOTE MM CATCHMENT IS BASED ON SCHEMATIC STORMWATER LAYOUT PROVIDED. A CONSERVATIVE ESTIMATE HAS THEREFORE BEEN ADDOPTED.

EXCESS FLOW FROM MM SITE AS PER EXISTING CONDITONS OVERFLOWS NORTH TO DARCY ROAD. ALLOWANCE HAS BEEN MADE FOR OVERFLOW FROM MM ON SOUTHERN SIDE OF BUILDING FOOTPRINT

ASSUMING 3.58 CUMECS TOTAL FOR ARI 100 & 0.700 CUMEC OVERFLOW TO DARCY ROAD, 2.50 CUMECS IN 900 PIPE. REMAINING OVERFLOW OVER PAVEMENT TO GLOUCESTER BOULEVARDE THRU. PROPOSED SITE = 0.38 CUMECS

600 DIA. PIPE CAPACITY FROM KIP IN NE CORNER OF DARCY ROAD INTERSECTION Q10 CAPACITY ASSUMING CATCHMENT OF DARCY ROAD ETC. AT 9400 SQ. M.

Q10 = 441 L/S + SITE DISCHRAGE OF 180L/S. = 621L/S
CAPACITY OF 870L/S. IS ADEQUATE

EXISTING CAPACITY OF 900Ø RCP @ 1.2% FALL = 2.5 CUMECS TOTAL COMBINED

SS33 CALCULATIONS TRAPEZOIDAL OFLOW
FOR 1% OVERFLOW ON SOUTHERN SIDE OF SITE OVER INTERNAL PAVEMENT
n = 0.012
Q100 = 0.380 CUMECS OVERFLOW**
(Yn) D = 0.048 m. (Yc) Critical = 0.052 m.
vn = 0.745m/s vc = 0.687m/s

SITE CATCHMENT LAYOUT
NOT TO SCALE

RECEIVED
09 MAY 2011
CUSTOMER SERVICES

PROPOSED INDUSTRIAL BUILDING
LOT 101, 102 & 103 DP 839149
CNR DARCY RD AND GLOUCESTER BVDE
PORT KEMBLA
FOR: WAREHOUSE KING

SITE CATCHMENT

DATE 20-7-2010
DRAWN MDM
CHECKED
ENGINEER
SCALES NTS @ A1

SHERSON LAUTIER CONSULTANCY PTY. LTD.
CONSULTING ENGINEERS email: sherson@1earth.net
16 BELMORE STREET WOLLONGONG NSW 2500
A.C.N. 093 756 328
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Phone. 42 285122
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