

**SEDIMENT AND EROSION NOTES**

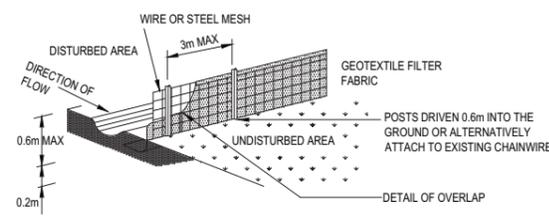
- B1. THIS PLAN TO BE READ IN CONJUNCTION WITH SEDIMENT AND EROSION CONTROL DETAILS AS SHOWN
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT COUNCIL'S APPROVAL. ALL SEDIMENT AND EROSION CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS'.
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL IS TO BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- B5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- B6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- B7. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.
- B8. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B9. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL :  
A) DOWNPIPES CONNECTED  
B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- B10. HAYBAILS & SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS.

**LEGEND**

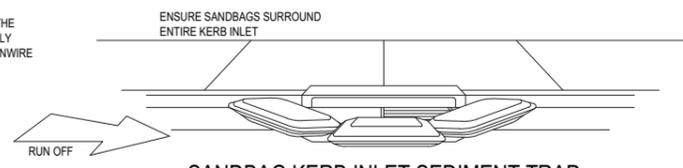
- STORMWATER SEDIMENT TRAPS AT ALL PROPOSED PIT INLETS
- TEMPORARY CONSTRUCTION VEHICLE EXIT
- SEDIMENT CONTROL FENCE
- STOCKPILE AREA
- SANDBAG KERB INLET SEDIMENT TRAP
- TEMPORARY SEDIMENT BASIN

PLAN  
SCALE 1:750

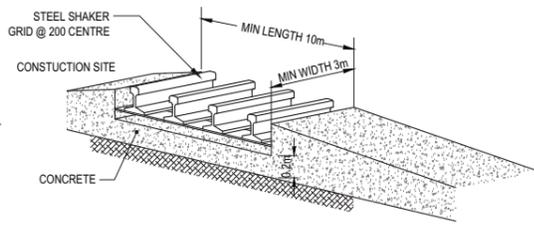
DRAINAGE AREA 0.6 ha. MAX. SLOPE GRADIENT 1:2 MAX.  
SLOPE LENGTH 60 m MAX.



**SEDIMENT CONTROL FENCE**  
N.T.S.



**SANDBAG KERB INLET SEDIMENT TRAP**  
NTS



**TEMPORARY CONSTRUCTION VEHICLE EXIT**  
N.T.S.

DRAWING STATUS  
**PRELIMINARY**  
NOT TO BE USED FOR CONSTRUCTION

REVISIONS:	REVISION DESCRIPTION	DATE
B	AMENDED	02/04/12
A	PRELIMINARY	12/03/12

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LEVEL 5, 35-37 CHANDOS STREET, ST LEONARDS, N.S.W. 2065  
Telephone: 61-2-9436 0433 Fax: 61-2-9436 1370  
www.vdmgroup.com.au

**CLIENT**  
CROWN INTERNATIONAL HOLDING GROUP  
LVL 11, 68 ALFRED STREET  
MILSONS POINT NSW 2061

**ARCHITECT**  
RICE DAUBNEY  
LVL 1, 110 WALKER STREET NORTH SYDNEY NSW 2060

**PROJECT TITLE**  
EASTLAKES TOWN CENTRE  
GARDENERS ROAD  
EASTLAKES NSW 2018

**DRAWING TITLE**  
EROSION & SEDIMENT CONTROL

<b>PROJECT LEADER:</b> RJB	<b>SIGNATURE:</b>
<b>DESIGNER:</b> NT	
<b>DRAFTER/PERSON:</b> NT	<b>DATE:</b> FEBRUARY 2012
<b>SCALE:</b> 1:750	<b>SHEET SIZE:</b> A1
<b>JOB NO.:</b> SY121-012	<b>DRAWING NO.:</b> DA010
	<b>REVISION:</b> B



**LEGEND**

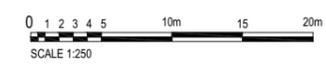
- PROPOSED STORMWATER PITS
- PROPOSED STORMWATER PIPES

**DRAINAGE DATA - SITE 1**  
 TOTAL SITE AREA = 6.045m<sup>2</sup>  
 REQ. RAINWATER STORAGE = 6.5m<sup>3</sup>  
 PROVIDED = 40m<sup>3</sup>  
 PSD = 0.235m<sup>3</sup>/s (5YR ARI PEAK FLOW UNDER STATE OF NATURE CONDITION)  
 OSD TANK 1  
 MIN. TANK VOLUME = 180m<sup>3</sup>  
 ORIFICE = 220mm  
 DESIGN = 0.211m<sup>3</sup>/s (100 PEAK FLOW)



4  
P.229727

5  
P.237132



DRAWING STATUS  
**PRELIMINARY**  
 NOT TO BE USED FOR CONSTRUCTION

REVISIONS:	REVISION DESCRIPTION	DRAWN	DATE
C	AMENDED OSD TANK 1	N.T.	13.04.12
B	RELOCATED OSD TANK	N.T.	02.04.12
A	PRELIMINARY	N.T.	12.03.12

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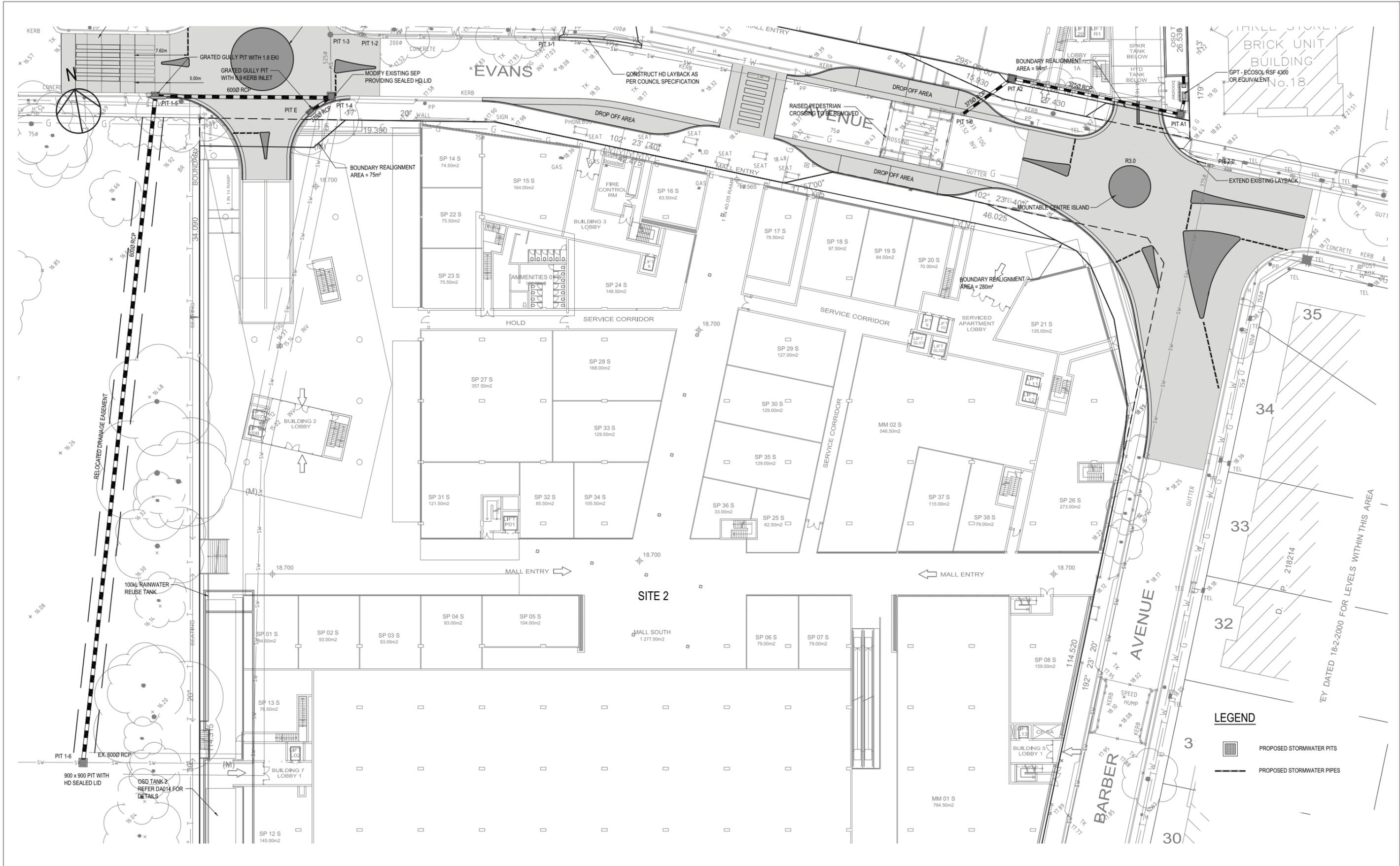
CLIENT  
**CROWN INTERNATIONAL HOLDING GROUP**  
 LVL 11, 68 ALFRED STREET  
 MILSONS POINT NSW 2061

ARCHITECT  
**RICE DAUBNEY**  
 LVL 1, 110 WALKER STREET NORTH SYDNEY NSW 2060

PROJECT TITLE  
**EASTLAKES TOWN CENTRE**  
 GARDENERS ROAD  
 EASTLAKES NSW 2018

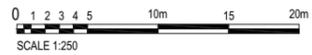
DRAWING TITLE  
**DRAINAGE & ROAD MODIFICATION LAYOUT**  
 SHEET 1

PROJECT LEADER:	DESIGNER:	DRAFTSPERSON:	SCALE:	JOB NO.:	SIGNATURE:	DATE:	SHEET SIZE:	DRAWING NO.:	REVISION:
RJB	NT	NT	1:250	SY121-012		FEBRUARY 2012	A1	DA011	C



**LEGEND**

- PROPOSED STORMWATER PITS
- PROPOSED STORMWATER PIPES



DRAWING STATUS

**PRELIMINARY**  
NOT TO BE USED FOR CONSTRUCTION

REVISIONS:	REVISION DESCRIPTION	DRAWN	DATE
C	AMENDED OSD TANK 1 & 2	N.T.	13.04.12
B	AMENDED OSD TANK LOCATION	N.T.	02.04.12
A	PRELIMINARY	N.T.	12.03.12

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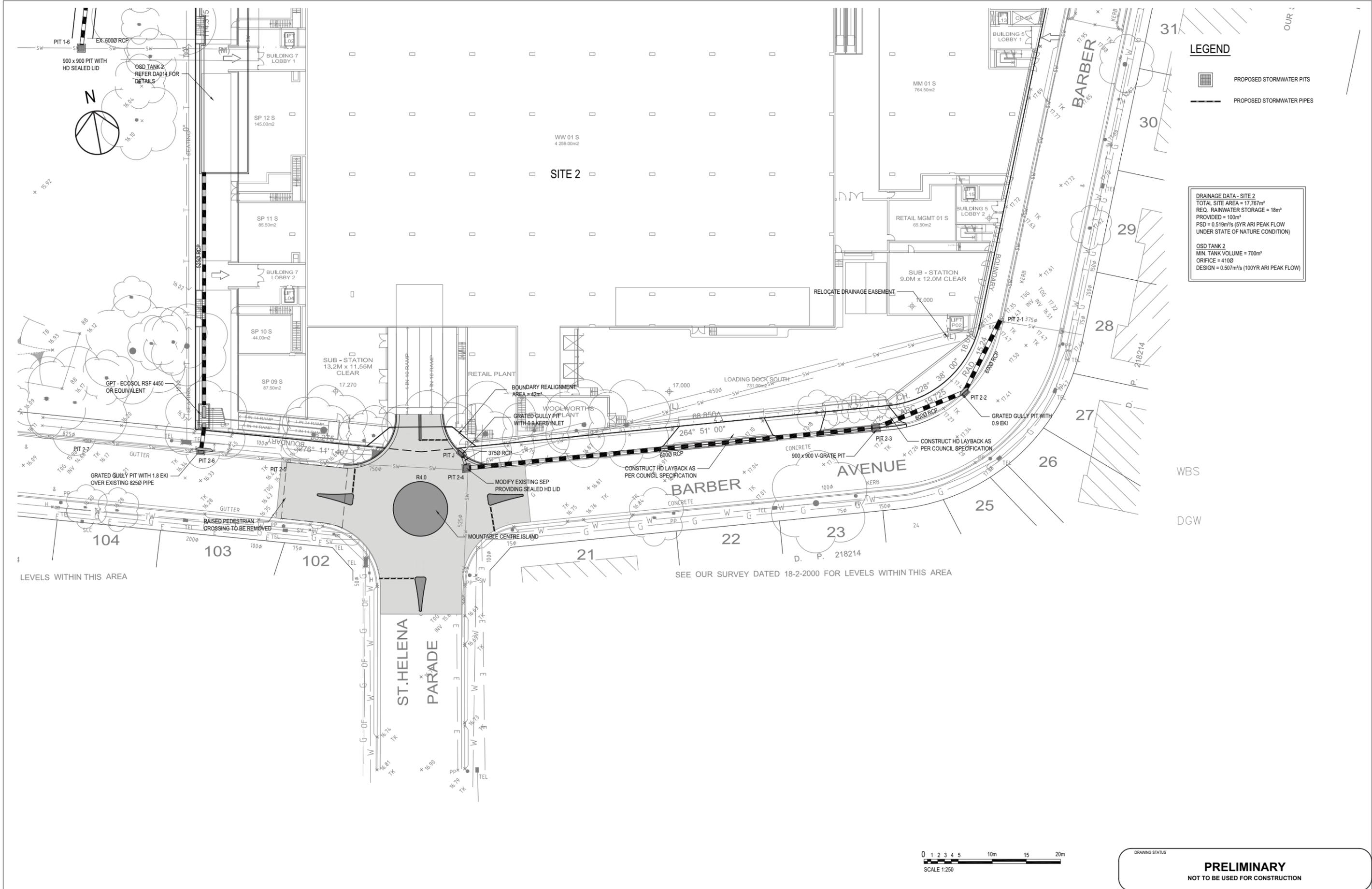
**CLIENT**  
CROWN INTERNATIONAL HOLDING GROUP  
LVL 11, 68 ALFRED STREET  
MILSONS POINT NSW 2061

**ARCHITECT**  
RICE DAUBNEY  
LVL 1, 110 WALKER STREET NORTH SYDNEY NSW 2060

**PROJECT TITLE**  
EASTLAKES TOWN CENTRE  
GARDENERS ROAD  
EASTLAKES NSW 2018

**DRAWING TITLE**  
DRAINAGE & ROAD MODIFICATION LAYOUT  
SHEET 2

PROJECT LEADER:	DESIGNER:	DRAFTSPERSON:	SCALE:	JOB NO.:	DRAWING NO.:	REVISION:
RJB	NT	NT	1:250	SY121-012	DA012	C
SIGNATURE:	DATE:	SHEET SIZE:				
	FEBRUARY 2012	A1				

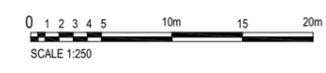


**LEGEND**

- PROPOSED STORMWATER PITS
- PROPOSED STORMWATER PIPES

**DRAINAGE DATA - SITE 2**  
 TOTAL SITE AREA = 17,767m<sup>2</sup>  
 REQ. RAINWATER STORAGE = 18m<sup>3</sup>  
 PROVIDED = 100m<sup>3</sup>  
 PSD = 0.519m<sup>3</sup>/s (5YR ARI PEAK FLOW UNDER STATE OF NATURE CONDITION)  
**OSD TANK 2**  
 MIN. TANK VOLUME = 700m<sup>3</sup>  
 ORIFICE = 4100  
 DESIGN = 0.507m<sup>3</sup>/s (100YR ARI PEAK FLOW)

WBS  
 DGW



DRAWING STATUS  
**PRELIMINARY**  
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REVISIONS:	REVISION DESCRIPTION	DRAWN	DATE
C	AMENDED OSD TANK 2	N.T.	13.04.12
B	UPDATED LOADING DOCK ACCESS & RELOCATED OSD TANK	N.T.	02.04.12
A	PRELIMINARY	N.T.	12.03.12

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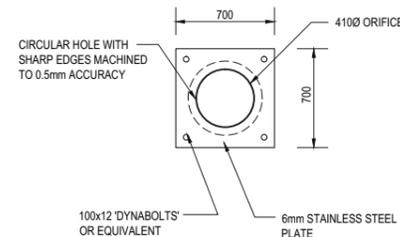
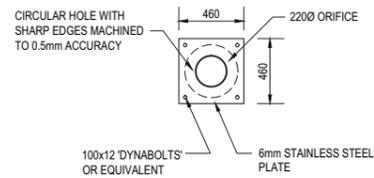
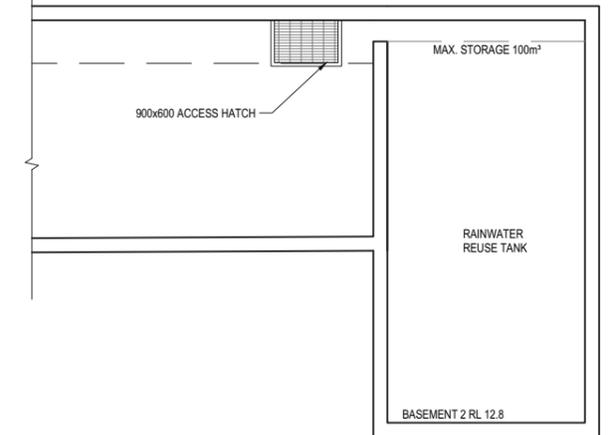
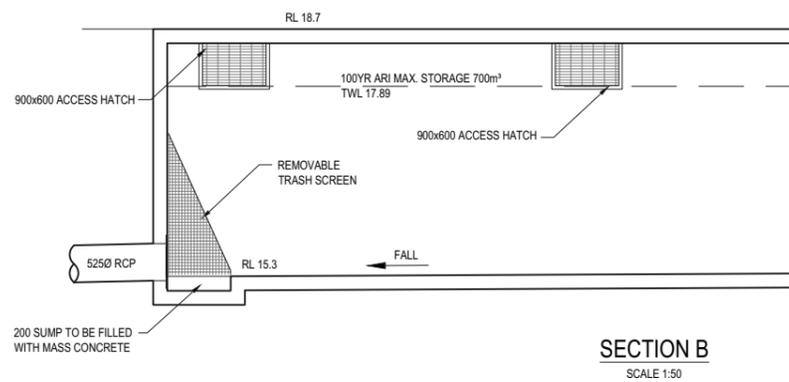
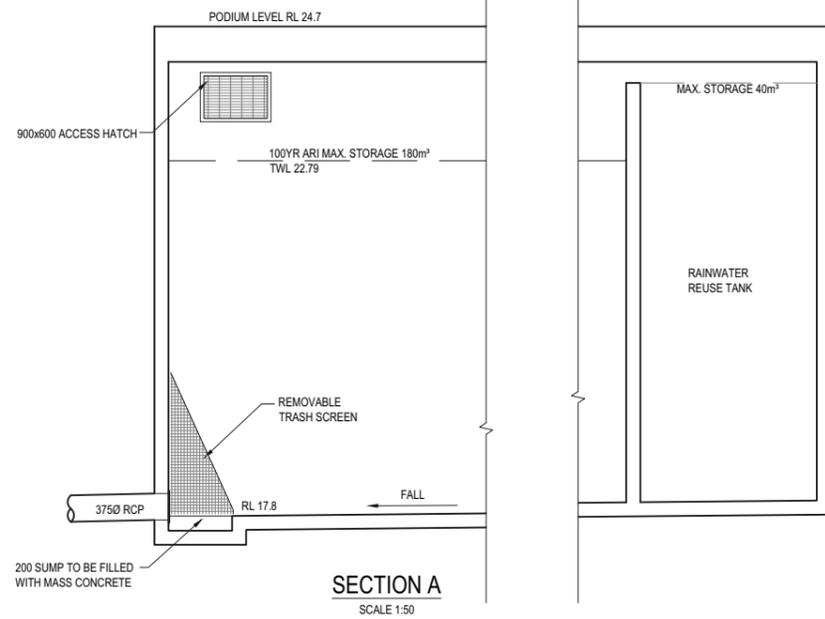
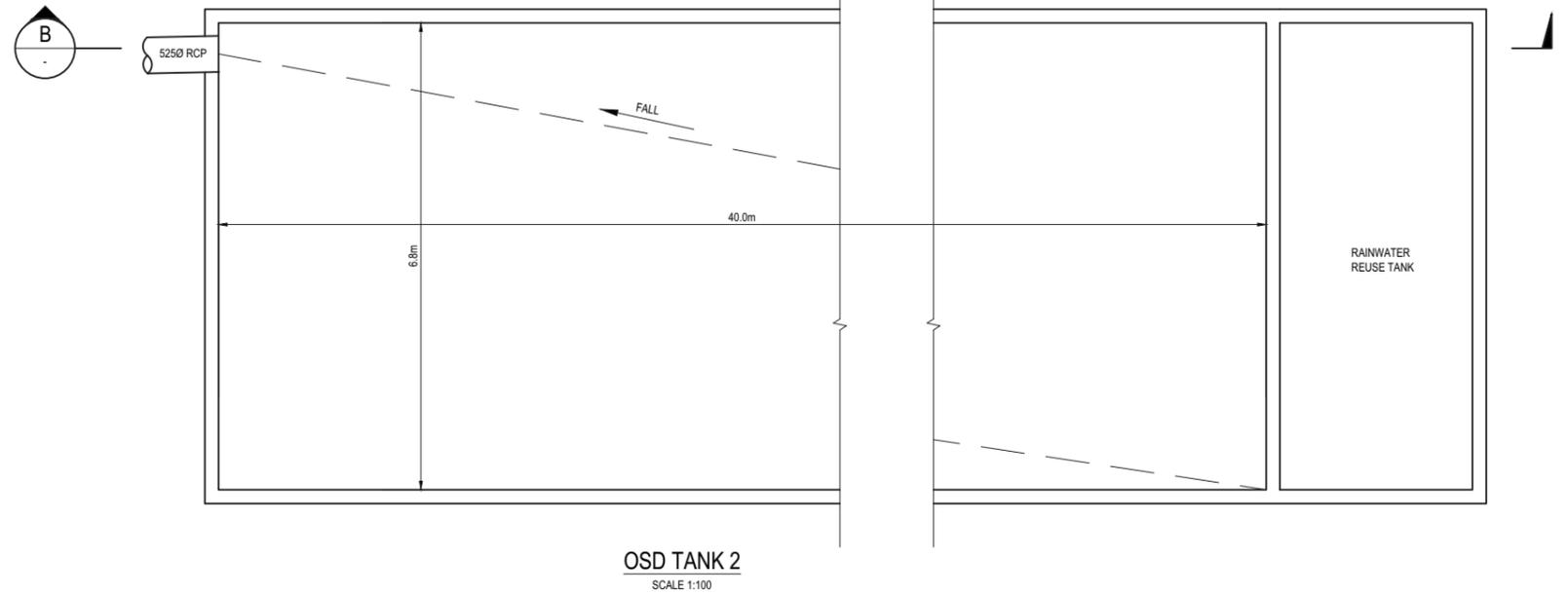
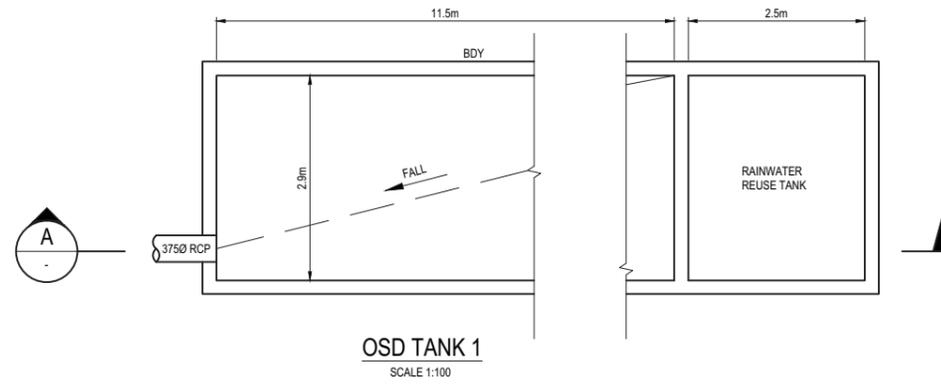
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 CROWN INTERNATIONAL HOLDING GROUP  
 LVL 11, 68 ALFRED STREET  
 MILSONS POINT NSW 2061

**ARCHITECT**  
 RICE DAUBNEY  
 LVL 1, 110 WALKER STREET NORTH SYDNEY NSW 2060

**PROJECT TITLE**  
 EASTLAKES TOWN CENTRE  
 GARDENERS ROAD  
 EASTLAKES NSW 2018

**DRAWING TITLE**  
 DRAINAGE & ROAD MODIFICATION LAYOUT  
 SHEET 3

<b>PROJECT LEADER:</b> RJB	<b>SIGNATURE:</b>
<b>DESIGNER:</b> NT	<b>DATE:</b> FEBRUARY 2012
<b>DRAFTER/PERSON:</b> NT	<b>SHEET SIZE:</b> A1
<b>SCALE:</b> 1:250	<b>DRAWING NO.:</b> DA013
<b>JOB NO.:</b> SY121-012	<b>REVISION:</b> C



DRAWING STATUS  
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REVISIONS:	REVISION DESCRIPTION	DRAWN	DATE
C	AMENDED OSD TANKS	N.T.	13.04.12
B	AMENDED OSD TANKS	N.T.	02.04.12
A	PRELIMINARY	N.T.	12.03.12

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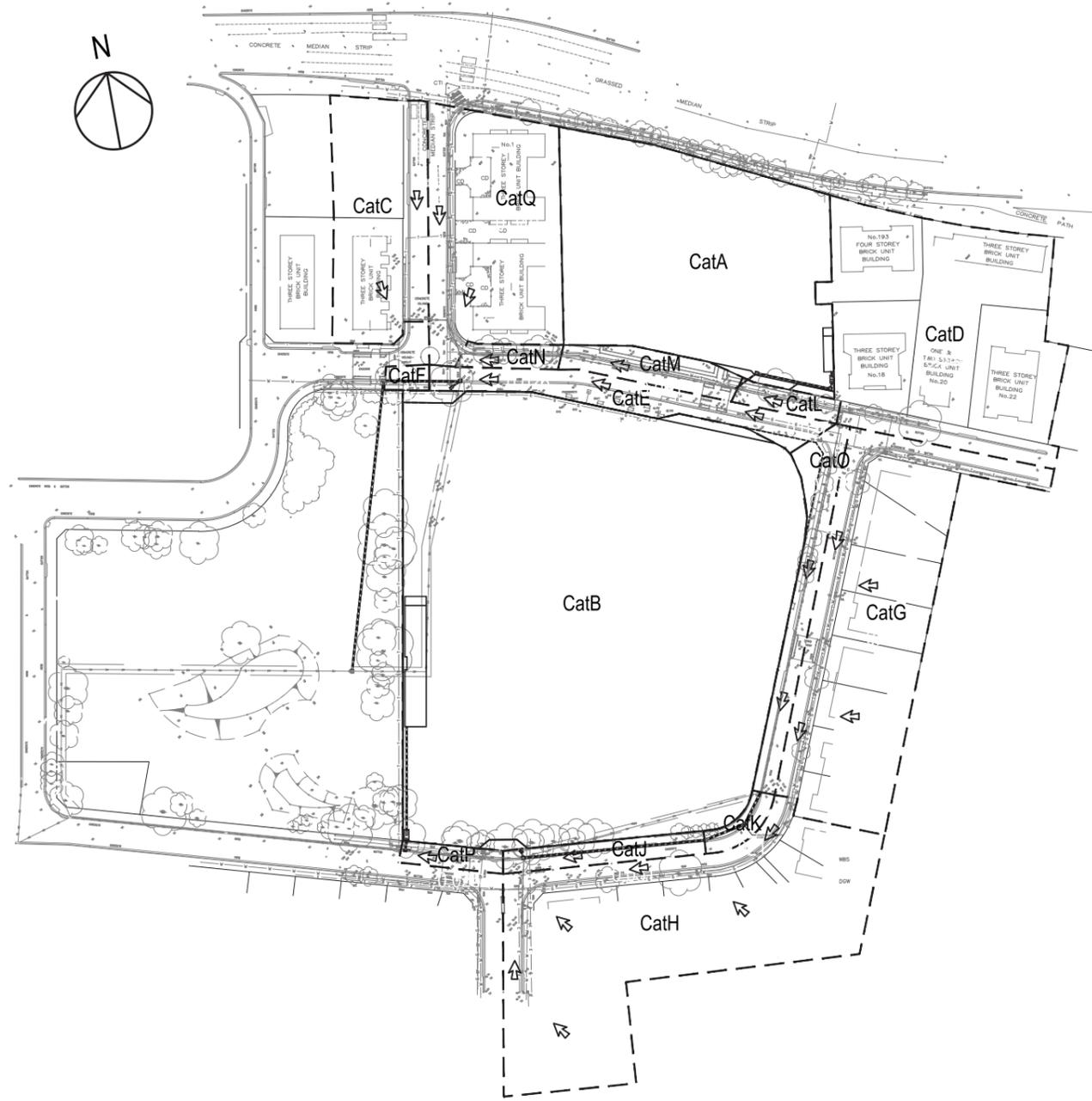
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ARCHITECT  
**RICE DAUBNEY**  
LVL 1, 110 WALKER STREET NORTH SYDNEY NSW 2060

PROJECT TITLE  
**EASTLAKES TOWN CENTRE**  
GARDENERS ROAD  
EASTLAKES NSW 2018

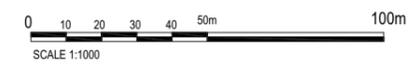
DRAWING TITLE  
**OSD TANK DETAILS**

PROJECT LEADER: <b>RJB</b>	SIGNATURE:
DESIGNER: <b>NT</b>	DATE: <b>FEBRUARY 2012</b>
DRAFTER/PERSON: <b>NT</b>	SHEET SIZE: <b>A1</b>
SCALE: <b>AS SHOWN</b>	DRAWING NO.:
JOB NO.:	REVISION:
<b>SY121-012</b>	<b>DA014 C</b>



PIT / NODE DETAILS				SUB-CATCHMENT DETAILS				PIPE DETAILS												
Name	Type	Size	Pressure Change Coeff. Ku	Surface Elev (m)	Pit or Node	Total Area (ha)	Paved Area (%)	Grass Area (%)	Name	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Type	Dia (mm)	I.D. (mm)	Rough	
Pit1-0.Ex	OnGrade	GP with 2.4 m EKI	0.5	18.33	CatA	Basin1	0.606	100	0	Pipe1-0.Ex	Pit1-0.Ex	Pit1-1.Ex	59.6032	17.52	17.03	0.82	Concrete, under roads	375	375	0.3
Pit1-1.Ex	OnGrade	GP with 2.4 m EKI	0.5	17.82	CatB	Basin2	1.777	100	0	Pipe1-1.Ex	Pit1-1.Ex	Pit1-2.Ex	27.7714	17.03	16.36	2.41	Concrete, under roads	375	375	0.3
Pit1-2.Ex	OnGrade	GP with 2.4 m EKI	0.5	17.19	CatC	NC	0.248	50	50	Pipe1-2.Ex	Pit1-2.Ex	Pit1-3.Ex	4.59237	16.36	16.314	1	Concrete, under roads	450	450	0.3
Pit1-3.Ex	OnGrade	900 x 900 SEALED	1	17.21	CatD	ND	0.548	80	20	Pipe1-3.Ex	Pit1-3.Ex	Pit1-4.Ex	8.95816	15.549	15.37	2	Concrete, under roads	525	525	0.3
Pit1-4.Ex	OnGrade	900 x 900 SEALED	1.5	17.07	CatE	PitE	0.119	100	0	Pipe1-4	Pit1-4.Ex	Pit1-5	25.1433	15.37	15.169	0.8	Concrete, under roads	600	600	0.3
Pit1-5	OnGrade	GP with 2.4 m EKI	0.7	16.63	CatF	Pit1-5	0.012	100	0	Pipe1-5	Pit1-5	Pit1-6	96.3685	15.169	14.398	0.8	Concrete, under roads	600	600	0.3
Pit1-6	OnGrade	900 x 900 SIP	0.7	16.1	CatG	NG	0.516	80	20	Pipe1-6.Ex	Pit1-6	Pit1-7.Ex	95.027	14.398	13.638	0.8	Concrete, under roads	600	600	0.3
Pit1-7.Ex	Node			15.7	CatH	NH	0.651	80	20	Pipe2-0.Ex	Pit2-0.Ex	Pit2-1.Ex	128.456	17.51	16.43	0.84	Concrete, under roads	375	375	0.3
Pit2-0.Ex	Sag	2 x GP with 2.4 m EKI	0.7	18.4	CatJ	PitJ	0.051	100	0	Pipe2-1	Pit2-1.Ex	Pit2-2	11.8039	16.164	16.046	1	Concrete, under roads	600	600	0.3
Pit2-1.Ex	OnGrade	900 x 900 V-GRATE	0.7	17.35	CatK	Pit2-1.Ex	0.105	100	0	Pipe2-2	Pit2-2	Pit2-3	14.1761	16.046	15.904	1	Concrete, under roads	600	600	0.3
Pit2-2	OnGrade	GP with 0.9 m EKI	0.5	17.15	CatL	Pit1-0.Ex	0.027	100	0	Pipe2-3	Pit2-3	Pit2-4.Ex	60.3844	15.904	15.3	1	Concrete, under roads	675	675	0.3
Pit2-3	OnGrade	GP with 2.4 m EKI	0.5	17.06	CatM	Pit1-1.Ex	0.061	100	0	Pipe2-4.Ex	Pit2-4.Ex	Pit2-5.Ex	26.1798	15.3	15	1.15	Concrete, under roads	750	750	0.3
Pit2-4.Ex	OnGrade	900 x 900 SEALED	0.5	16.45	CatN	Pit1-2.Ex	0.026	100	0	Pipe2-5.Ex	Pit2-5.Ex	Pit2-6	12.5	14.998	14.863	1.08	Concrete, under roads	825	825	0.3
Pit2-5.Ex	OnGrade	GP with 2.4 m EKI	0.5	16.43	CatP	Pit2-5.Ex	0.025	100	0	Pipe2-6.Ex	Pit2-6	Pit2-7.Ex	16.9	14.863	14.68	1.08	Concrete, under roads	825	825	0.3
Pit2-6	OnGrade	GP with 2.4 m EKI	0.2	16.18	CatQ	NQ	0.34	80	20	Pipe2-7.Ex	Pit2-7.Ex	Pit2-8.Ex	46.5	14.68	14.215	1	Concrete, under roads	825	825	0.3
Pit2-7.Ex	OnGrade	GP with 2.4 m EKI	0.5	15.98						PipeA1	PitA1	PitA2	8.5	17.605	17.563	0.49	Concrete, under roads	375	375	0.3
Pit2-8.Ex	Node			15.59						PipeA2	PitA2	Pit1-0.Ex	8.5	17.563	17.52	0.51	Concrete, under roads	375	375	0.3
PitA1	OnGrade	900 x 900 SEALED	0.5	18.5						PipeBAS2	Basin2	Pit2-6	40	15.279	14.879	1	Concrete, under roads	525	525	0.3
PitA2	OnGrade	900 x 900 SEALED	0.2	18.5						PipeBasin2	Basin1	PitA1	5.5	17.632	17.605	0.49	Concrete, under roads	375	375	0.3
PitC1.Ex	OnGrade	GP with 2.4 m EKI	1	16.65						PipeC	NC	PitC1.Ex	20	15.95	15.75	1	Concrete, under roads	450	450	0.3
PitC2.Ex	OnGrade	GP with 2.4 m EKI	1	16.66						PipeC1.Ex	PitC1.Ex	PitC2.Ex	12.3	15.75	15.666	0.68	Concrete, under roads	375	375	0.3
PitE	Sag	GP with 0.9 m EKI	1.5	17.05						PipeC2.Ex	PitC2.Ex	Pit1-3.Ex	11.7	15.666	15.549	1	Concrete, under roads	450	450	0.3
PitJ	Sag	GP with 0.9 m EKI	1.5	16.42						PipeD	ND	Pit2-0.Ex	38.3	17.92	17.51	1.07	Concrete, under roads	375	375	0.3
NC	Node			18						PipeE	PitE	Pit1-4.Ex	3.65334	16	15.963	1.01	Concrete, under roads	375	375	0.3
ND	Node			20						PipeG	NG	Pit2-1.Ex	29.4	16.804	16.51	1	Concrete, under roads	375	375	0.3
NG	Node			17.5						PipeH	NH	Pit2-4.Ex	29.4	15.788	15.494	1	Concrete, under roads	525	525	0.3
NH	Node			17						PipeJ	PitJ	Pit2-4.Ex	2.28604	15.523	15.5	1.01	Concrete, under roads	375	375	0.3
NQ	Node			18						PipeQ	NQ	PitC2.Ex	20	15.749	15.549	1	Concrete, under roads	450	450	0.3

PIT / NODE DETAILS				SUB-CATCHMENT DETAILS					PIPE DETAILS						
Name	Max HGL	Max Surface Flow Arriving (cu.m/s)	Min Freeboard (m)	Overflow (cu.m/s)	Name	Max Flow Q (cu.m/s)	Paved Max Q (cu.m/s)	Grassed Max Q (cu.m/s)	Paved Tc (min)	Grassed Tc (min)	Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)
Pit1-0.Ex	18.33	0.114	0	0.075	CatA	0.405	0.405	0	7	7	Pipe1-0.Ex	0.233	2.1	18.23	17.624
Pit1-1.Ex	17.62	0.103	0.2	0.022	CatB	1.12	1.12	0	10	10	Pipe1-1.Ex	0.3	2.7	17.441	16.91
Pit1-2.Ex	16.91	0.036	0.28	0.002	CatC	0.135	0.078	0.058	10	14	Pipe1-2.Ex	0.332	2.5	16.714	16.668
Pit1-3.Ex	16.61	0	0.6		CatD	0.327	0.276	0.051	10	14	Pipe1-3.Ex	0.471	2.2	16.372	16.302
Pit1-4.Ex	16.3	0.002	0.77	0.002	CatE	0.08	0.08	0	7	7	Pipe1-4	0.538	1.9	16.025	15.893
Pit1-5	15.89	0.009	0.74	0	CatF	0.008	0.008	0	7	7	Pipe1-5	0.546	2.2	15.651	15.122
Pit1-6	15.12	0	0.98	0	CatG	0.308	0.26	0.048	10	14	Pipe1-6.Ex	0.546	2.6	14.816	14.056
Pit1-7.Ex	14.06	0.191			CatH	0.388	0.328	0.061	10	14	Pipe2-0.Ex	0.238	2.2	18.354	16.97
Pit2-0.Ex	18.5	0	-0.1	0.099	CatJ	0.037	0.037	0	5	7	Pipe2-1	0.593	2.1	16.819	16.747
Pit2-1.Ex	16.97	0.076	0.38	0.013	CatK	0.076	0.076	0	5	7	Pipe2-2	0.605	2.2	16.598	16.496
Pit2-2	16.75	0.013	0.4	0	CatL	0.019	0.019	0	5	7	Pipe2-3	0.605	2.5	16.34	16.159
Pit2-3	16.5	0	0.56	0	CatM	0.044	0.044	0	5	7	Pipe2-4.Ex	1.025	2.4	15.983	15.905
Pit2-4.Ex	16.16	0	0.29	0	CatN	0.019	0.019	0	5	7	Pipe2-5.Ex	1.042	2	15.794	15.767
Pit2-5.Ex	15.86	0.018	0.57	0	CatP	0.018	0.018	0	5	7	Pipe2-6.Ex	1.379	2.6	15.713	15.647
Pit2-6	15.77	0	0.41	0	CatQ	0.203	0.171	0.032	10	14	Pipe2-7.Ex	1.379	3.5	15.343	14.78
Pit2-7.Ex	15.65	0	0.33	0							PipeA1	0.211	1.9	18.525	18.446
Pit2-8.Ex	14.78	0									PipeA2	0.211	1.9	18.409	18.33
PitA1	18.62	0	-0.12	0							PipeBAS2	0.507	2.3	16.096	15.767
PitA2	18.45	0	0.05	0							PipeBasin2	0.211	1.9	18.668	18.616
PitC1.Ex	16.65	0.025	0	0.191							PipeC	0.135	0.8	16.682	16.65
PitC2.Ex	16.66	0	0	0.025							PipeC1.Ex	0.093	0.8	16.651	16.66
PitE	16.35	0.08	0.7	0							PipeC2.Ex	0.235	1.5	16.624	16.607
PitJ	16.16	0.037	0.26	0							PipeD	0.327	3	19.365	18.5
NC	16.68	0.135									PipeE	0.079	0.8	16.302	16.302
ND	19.37	0.327									PipeG	0.308	2.8	17.522	16.97
NG	17.52	0.308									PipeH	0.388	2.4	16.159	16.159
NH	16.16	0.388									PipeJ	0.036	0.3	16.159	16.159
NQ	16.73	0.203									PipeQ	0.203	1.3	16.728	16.66



DRAWING STATUS  
**PRELIMINARY**  
NOT TO BE USED FOR CONSTRUCTION

REVISIONS:	REVISION DESCRIPTION	DATE
B	AMENDED DATA TABLES	13.04.12
A	PRELIMINARY	02.04.12

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**VDM CONSULTING**  
VDM NSW PTY. LTD. - A.C.N. 109 829 512  
LEVEL 5, 35-37 CHANDOS STREET, ST LEONARDS, N.S.W. 2065  
Telephone: 61-2-9436 0433 Fax: 61-2-9436 1370  
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PROJECT TITLE  
**EASTLAKES TOWN CENTRE**  
GARDENERS ROAD  
EASTLAKES NSW 2018

DRAWING TITLE  
**CATCHMENT PLAN, DRAINAGE DATA & RESULTS**

PROJECT LEADER:	DESIGNER:	DRAFTER/PERSON:	SCALE:	JOB NO.:	DRAWING NO.:	REVISION:
RJB	NT	NT	1:1000	SY121-012	DA015	B