

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
FILE AMENDED	23.06.15	D			
FOR SELECTED APPLICATION	22.06.15	C			
FOR SELECTED APPLICATION	15.06.15	B			
FOR INFORMATION PRELIMINARY ONLY	15.06.15	A			

ARCHITECT



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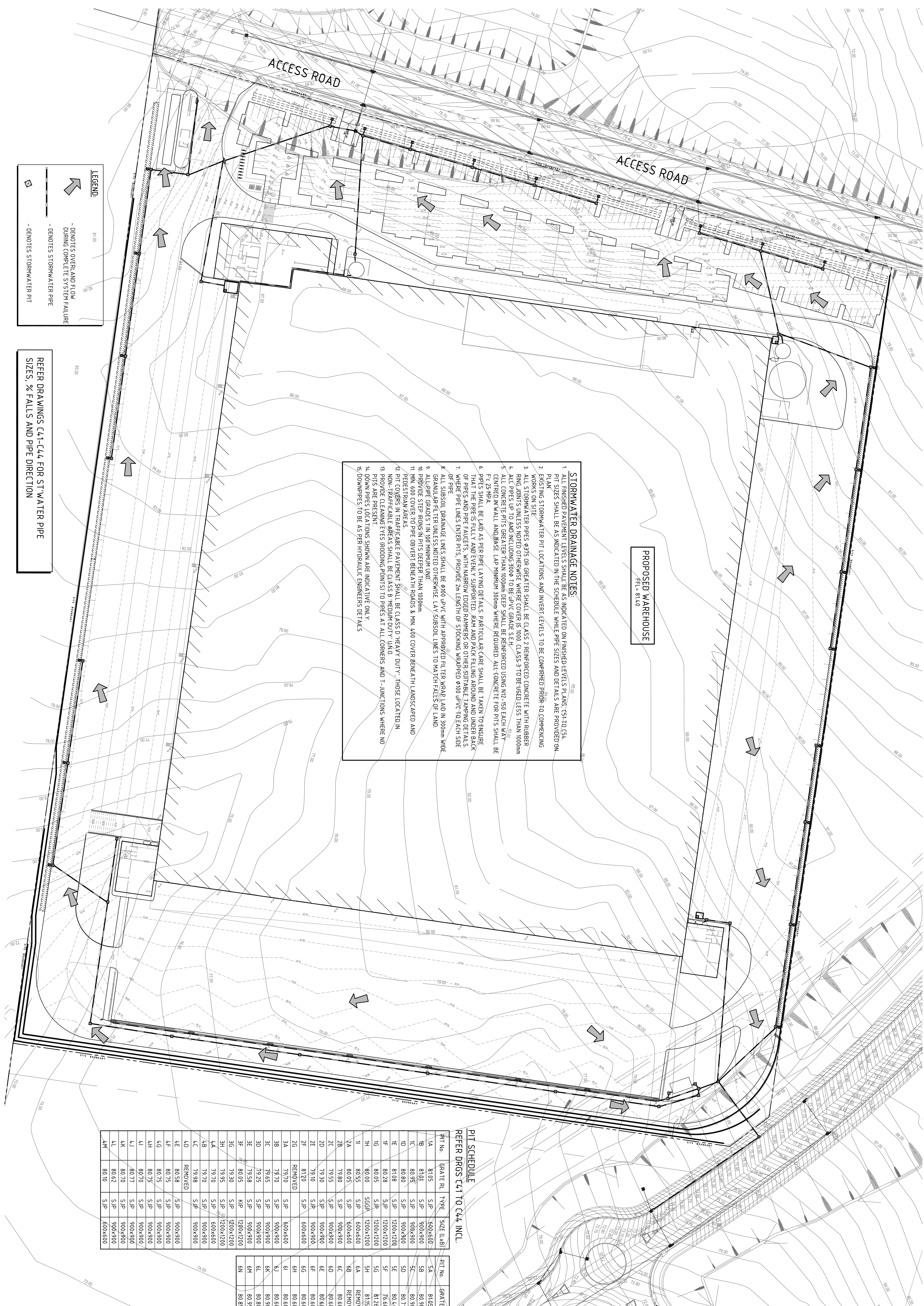
PROJECT KMART SITE LOT 2, DP114,9138 EASTERN CREEK SITE						STAGE 3		 The Association of Commercial Estate Agents	
DESIGNED G.M.	DRAWN J.H.	DATE 03/06/10	CHECKED	SIZE A0	SCALE 1:500	CAD REF: 1072691-140			

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Suite 310, 65 Harrington Street
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Value in Engineering and ManagementCostin Roe

DRAWING TITLE STORMWATER MASTERPLAN	Consulting

CONCEPT	
6.01-C40	ISSUE D



STORMWATER DRAINAGE NOTES:

1. ALL FINISHED PAVENMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS, C54 TO C54.
PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLANS.

2. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CORRELATED PRIOR TO COMMENCING WORKS ON SITE.

3. STORMWATER PIPES 4575 OR GREATER SHALL BE CLASS 2 REINFORCED CONCRETE WITH ROUBER RINGS. UNLESS NOTED OTHERWISE, UNDER COVER 900 TO 1500 C/SSES TO BE USED. LESS THAN 1000mm ALL PIPES UP TO AND INCLUDING 3000 TO BE DEEP GRADIS 5 E14.

4. ALL CONCRETE PIPES GREATER THAN 1000mm DEPTH SHALL BE REINFORCED USING M2-150 EACH WAY C/25 MPa.

5. ALL CONCRETE PIPES GREATER THAN 1000mm DEPTH SHALL BE REINFORCED USING M2-150 EACH WAY C/25 MPa.

6. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAY AND PACK FILING AROUND AND UNDER BACK OF WHERE PIPE ENTER PITS, WITH NARROW DEEP RAMMERS OR OTHER SUITABLE TAMPING DETAILS.

7. WHERE PIPE LINES ENTER PITS, PROVIDE 2x LENGTH OF PIPE WRAPPED 9100 UPVC TO EACH SIDE OF PIPE.

8. ALL SUBSOIL DRAINAGE LINES SHALL BE 9100 UPVC WITH APPROPRIATE FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER LINES. UNLESS NOTED OTHERWISE, LAY SUBSOIL LINES TO MATCH FALLS OF LAND.

9. ALL PIPE GRADIENTS IN 100 MM MINIMUM UTO.

10. PROVIDE STEP DOWNS IN PIPES DEEPER THAN 1000mm.

11. MN. 600 COVER TO PIPE (AVERED BENEATH ROADS & MN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS).

12. PIT LOCATIONS IN REPAVABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY' - THOSE LOCATED IN NON REPAVABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY'.

13. ALL REPAVABLE AREAS SHALL BE REPAVED TO 150mm AT ALL JOINTS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.

14. DOWN PIPES LOCATIONS SHOWN ARE INDICATIVE ONLY.

15. DOWNPIPS TO BE AS PER HYDRAULIC ENGINEERS DETAILS.

PIT SCHEDULE
REFER DRGS C41 TO C44 INCL.

PLT No.	GRAFT	RT	TYPE	SIZE (Lb)
5A	8105		SJP	900x600
5B	80 98		SJP	900x900
5C	80 90		SJP	900x900
5D	80 71		SJP	900x900
5E	86 60		SGEP	1200x1200
5F	76 60		SJP	1200x1200
5G	8126		SJP	900x900
5H	8115		SJP	900x900
6A	REMOVED			
6B	REMOVED			
6C	80 60		KIP	900x600
6D	80 60		KIP	900x900
6E	80 60		KIP	900x900
6F	80 60		KIP	900x900
6G	80 60		KIP	900x900
6H	80 60		KIP	900x900
6I	80 60		KIP	900x900
6J	80 60		KIP	900x900
6K	80 90		SJP	900x900
6L	80 80		SJP	1200x1200
6M	80 95		SJP	900x900
6N	80 85		SJP	900x900

Pin No	QDAR EL	TYPE	SIZE (Lb)
1A	8105	S/P	500x600
1B	8104	S/P	500x900
1C	8035 ¹	S/P	900x900
2	8080	S/P	900x900
2E	8108	S/P	1200x1200
3	8028	S/P	1200x1200
15	8005	S/P	1200x1200
16	8005	S/P	1200x1200
17	8000	SECF	1200x1200
18	8035	S/P	600x600
19	8005	S/P	600x600
20	7950	S/P	900x900
21	7950	S/P	900x900
22	7950	S/P	900x900
23	7910	S/P	900x900
24	8120	S/P	600x600
25	REMOVED		
26	7910	S/P	600x600
27	7910	S/P	900x900
28	7910	S/P	900x900
29	7965	S/P	900x900
30	7925	S/P	900x900
31	7958	S/P	900x900
32	8005	K/P	1200x1200
33	8005	K/P	1200x1200
34	7930	S/P	2200x1200
35	7930	S/P	2200x1200
36	7930	S/P	2200x1200
37	7930	S/P	2200x1200
38	7930	S/P	2200x1200
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96	7930	S/P	2200x1200
97	7930	S/P	2200x1200
98	7930	S/P	2200x1200
99	7930	S/P	2200x1200
100	7930	S/P	2200x1200

FOR DEVELOPMENT APPLICATION

