



STORMWATER DRAINAGE NOTES:

1. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLAN.
2. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
3. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
4. ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
5. ALL PIPES UP TO AND INCLUDING 300Ø TO BE uPVC GRADE SN8.
6. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTRED IN WALL AND BASE LAB MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE FC 25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. PITS GREATER THAN 3000mm DEEP IN ADDITION TO ITEM 6 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
8. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAIL.
9. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
10. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAIN IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAYEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
11. ALL PIPE GRADES 1 IN 100 MINIMUM UNDO.
11. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
13. MIN. 600 COVER TO PIPE OVERBENT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
14. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D HEAVY DUTY, THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' UNDO.
15. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
16. DOWN PIPES TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE UNDO. ON PLAN, PROVIDE CLEANING EYE AT GROUND LEVEL.
17. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.

PIT SCHEDULE - SYSTEM A

PIT No.	GRATE RL	DEPTH	TYPE	SIZE	COMMENT
PIT A1	72.58	1580	S.J.P	900x900	
PIT A2	72.40	1490	S.J.P	900x900	
PIT A3	72.60	1800	S.J.P	2500x900	
PIT A4	72.60	2000	S.J.P	1500x1500	
PIT A5	72.60	2390	S.J.P	1500x1500	
PIT A6	73.00	3240	S.J.P	1500x1500	
PIT A7	73.93	7930	S.J.P	1500x1500	⊗
PIT A8	72.40	1300	S.G.G.P	900x900	
PIT A9	72.40	1600	S.G.G.P	1200x1200	⊗
PIT A10	72.67	1620	S.J.P	1200x1200	
PIT A11	72.40	1200	S.G.G.P	900x900	⊗
PIT A12	73.70	1000	S.G.G.P	900x900	⊗

⊗ - DENOTES PIT TO BE FITTED WITH STORMWATER 360 ENVIROPOD UNIT

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY BY HARD & FORESTER.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- GRATED DRAIN (200 WIDE)
- OVERLAND FLOW PATH
- DOWNPIPE INDICATIVE ONLY, REFER TO HYDRAULIC ENGINEERS DRAWINGS
- DRAINAGE LINE
- SUBSOIL LINE
- ROOFWATER LINE
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING SEWER LINE



CONCEPT STORMWATER PLAN - SHEET 1  
SCALE 1:250

FOR DEVELOPMENT APPLICATION  
PRELIMINARY - FOR INFORMATION  
AMENDMENTS

08.02.13  
06.02.13  
22.01.13

C  
B  
A

DATE  
ISSUE

ARCHITECT

SBA ARCHITECTS  
140-150 Pitt Street, Suite 100, Sydney, NSW 2000  
Tel: (02) 9231 1400  
Fax: (02) 9231 1444  
www.sbaarchitects.com.au

CLIENT

Goodman  
66 Castlereagh Street  
NSW 2000 Australia  
Tel: (02) 9231 1400  
Fax: (02) 9231 1444

PROJECT

PROPOSED COLES CDC EXPANSION  
W7 BUSINESS HUB  
WALLGROVE ROAD, MICHINBURY, NSW

DESIGNED BY  
M.W.

DRAWN BY  
H.C.

CHECKED BY  
J.S.

DATE  
03.11.13

SCALE  
AS SHOWN

QAD REF:  
C084871-DA41

Coslin Roe Consulting Pty Ltd.  
Consulting Engineers  
Level 1, 8 Mitchell Street  
Maitland, NSW 2320  
Phone: (02) 9391 3781  
Email: maitland@coslinroe.com.au

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Phone: (02) 9391 3781  
Email: maitland@coslinroe.com.au

Voile In Engineering and Management

Coslin Roe Consulting  
DRAWING TITLE  
CONCEPT STORMWATER PLAN  
SHEET 1  
DRAWING No  
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ISSUE  
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