

SITE 9 - SYDNEY OLYMPIC PARK

3 OLYMPIC BOULEVARD

DA STORMWATER ISSUE

HYDRAULIC SERVICES LEGEND

PIPEWORK SYMBOLOLOGY & ABBREVIATIONS

	AMENDMENT
	CASTIN
	CHAMP VENT PIPE
	CHAMP VENT PIPE - EXISTING
	COLD WATER
	COLD WATER - EXISTING
	CONDENSATE DRAIN
	CONDENSATE DRAIN - EXISTING
	CONDUIT
	DIESEL EXHAUST
	DISCONNECTED SERVICE
	ELECTRICAL SERVICE
	FIRE HOSE REEL
	FIRE HOSE REEL - EXISTING
	FIRE HYDRANT
	FIRE HYDRANT - EXISTING
	FIRE SERVICE
	FIRE SERVICE - EXISTING
	FIRE SPRINKLER MAIN
	FIRE SPRINKLER MAIN - EXISTING
	FIRE SPRINKLER RANGE PIPE
	FIRE SPRINKLER RANGE PIPE - EXISTING
	GAS
	GAS - EXISTING
	GAS SERVICE
	GAS SERVICE - EXISTING
	GAS SUPPRESSION PIPE
	GREASE WASTE
	GREASE WASTE - EXISTING
	GREASE WASTE VENT PIPE
	GREASE WASTE VENT PIPE - EXISTING
	HOT WATER
	HOT WATER - EXISTING
	HOT WATER - HEAT TRACED
	HOT WATER RETURN
	HOT WATER RETURN - EXISTING
	INSET BORDER
	IRRIGATION LINE
	IRRIGATION LINE - EXISTING
	NON-POTABLE COLD WATER
	NON-POTABLE COLD WATER - EXISTING
	NON-POTABLE HOT WATER
	NON-POTABLE HOT WATER - EXISTING
	NON-POTABLE HOT WATER RETURN
	NON-POTABLE HOT WATER RETURN - EXISTING
	PLANT LINE
	POOL DRAIN
	POOL HEATING WATER
	POOL WATER
	RAINWATER RE-USE
	RAINWATER RE-USE - EXISTING
	ULTRA PURE WATER
	ULTRA PURE WATER - EXISTING
	SANITARY DRAINAGE
	SANITARY DRAINAGE - EXISTING
	SANITARY PLUMBING
	SANITARY PLUMBING - EXISTING
	SANITARY RISING MAIN
	SANITARY RISING MAIN - EXISTING
	SPRINKLER TEST DRAIN
	STORMWATER CATCHMENT
	STORMWATER DRAINAGE
	STORMWATER DRAINAGE - EXISTING
	STORMWATER RISING MAIN
	STORMWATER RISING MAIN - EXISTING
	SUBSOIL
	SUBSOIL - EXISTING
	SYPHONIC OVERFLOW
	SYPHONIC OVERFLOW - EXISTING
	SYPHONIC STORMWATER
	SYPHONIC STORMWATER - EXISTING
	TRADE WASTE
	TRADE WASTE - EXISTING
	TRADE WASTE RISING MAIN
	TRADE WASTE RISING MAIN - EXISTING
	TRADE WASTE VENT PIPE
	TRADE WASTE VENT PIPE - EXISTING
	VENT PIPE
	VENT PIPE - EXISTING
	WARM WATER
	WARM WATER - EXISTING
	WARM WATER RETURN
	WARM WATER RETURN - EXISTING

SYMBOLS

	RISER
	ADAPTABLE FIXTURE POINT (CAPPED FLUSH WITH SLAB)
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	PIPEWORK CONTINUATION
	UNDOCUMENTED CONTINUED LINE
	PIPEWORK SECTION
	DIRECTION ARROW
	NEW CONNECTION
	NEXT DRAWING
	DIRECTION OF FLOW
	SERVICE DESCRIPTION
	RISER NUMBER / FLOW RATE
	SERVICE SIZE
	DIRECTION OF FLOW
	STOP VALVE
	CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE
	BALL VALVE
	REDUCED PRESSURE ZONE DEVICE
	PRESSURE RELIEF VALVE
	PRESSURE LIMITING VALVE
	SOLENOID VALVE
	DOUBLE CHECK VALVE
	INFRA RED SENSOR
	MONITORED VALVE
	THERMOSTATIC MIXING VALVE
	TEMPERING VALVE
	WATER FILTER
	REFLUX VALVE
	REFLUX VALVE IN PIT
	PATHBOX
	WATER METER
	GAS METER
	EXPANSION JOINT
	STRAINER
	PRESSURE GAUGE
	FLOW SWITCH
	PRESSURE SWITCH
	WATER METER
	TAP SET
	HOSE TAP
	BAYONET POINT
	REGULATOR
	PUMP
	CONTROL PANEL
	FIRE HOSE REEL
	HOT WATER UNIT
	FIRE HYDRANT
	STREET HYDRANT
	DUAL SUCTION POINT
	QUAD SUCTION POINT
	DUAL BOOSTER POINT
	QUAD BOOSTER POINT
	FLOORWASTE
	TUNDISH
	BUCKET TRAP FLOORWASTE
	CLEAROUT TO SURFACE
	SEWER MANHOLE
	BOUNDARY TRAP
	SURGE GULLY
	INSPECTION SHAFT
	INDUCT PIPE MICA FLAP
	KAMLOCK CONNECTION
	AIR ADMITTANCE VALVE
	SYPHONIC OUTLET
	RAINWATER OUTLET
	SPREADER
	OVERFLOW FLOW ARROW
	STORMWATER FLOW ARROW
	PENETRATION / CORE HOLE IN SLAB
	BEAM PENETRATION REDUCER
	GREASE ARRESTOR
	STORMWATER GRATE
	STORMWATER COVER
	TRENCH GRATE
	REVISION
	KERB ENTRY PIT
	THRUST BLOCK
	P.A.P.A VALVE
	RAINWATER HEAD OVERFLOW

ABBREVIATIONS

AAV	Air Admittance Valve
BO	Balkony Outlet
BT	Boundary trap
BTWF	Bucket Trap Floorwaste
CO	Clear Out
CST	Condensate Stack
DG	Disconnector Gully
DP	Downpipe
DR	Drainage Riser
DTU	Drainage Turn Up
FU	Fixture Units
FW	Floor Waste
GA	Grease Arrestor
GD	Grated Drain
GO	Gutter Outlet
GST	Grease Stack
GTU	Grease Turn Up
GWST	Grease Waste Stack
IO	Inspection Opening
IPMF	Induct Pipe Mica Flap
IS	Inspection Shaft
KIP	Kerb Inlet Pit
Q/F	Overflow
ORG	Overflow Relief Gully
PAPA	Positive Air Pressure Attenuator
PO	Planner Outlet
PTW	Plantroom Floor Waste
RVP	Relief Vent Pipe
RWH	Rain Water Head
RO	Rainwater Outlet
S/TK	Safe Ttry
SDD	Spoon Drain Outlet
SFV	Sealed Floorwaste
SMH	Sewer Manhole
SO	Syphonic Outlet
SOP	Syphonic Overflow
SST	Soil Stack
ST	Stack
SWP	Stormwater Pit
SYP	Syphonic
TG	Trench Grate
TW	Trade Waste
TWV	Trade Waste Manhole
TWTU	Trade Waste Turn Up
WST	Waste Stack

ABBREVIATIONS cont.

FLUID FLOW	
kPa	Kilopascal
L	Litres
L/s	Litres Per Second
LU	Loading Units
m.HEAD	Metres Head
m/s	Metres per Second
m ³ /hr	Cubic Metres per Hour
FIXTURES	
B	Basin
BBQ	Barbecue
BM	Bath Marie
BP	Bayonet Point
BSK	Bar Sink
BTH	Bath
BWU	Boiling Water Unit
CWM	Clothes Washing Machine
CHWU	Chilled Water Unit
CS	Cleaners Sink
CT	Cook Top
DF	Drinking Fountain
DU	Dental Unit
DWC	Disabled Water Closet
DWM	Dish Washing Machine
EW	Eye Wash
FC	Fume Cupboard
FR	Fridge
FRS	Flushing Rim Sink
GW	Glass Washing Machine
HT	Hose Tap
IM	Ice Machine
LSK	Laboratory Sink
LT	Laundry Tub
PS	Pan Sanitiser
PSK	Pot Sink
SB	Surgeons Basin
SH	Shop Hooper
SHR	Shower
SK	Sink
SSHR	Safety Shower
STER	Steriliser
TUN	Tundish
TTD	Trapped Turkish
UR	Urinal
UW	Utensil Washer
WC	Water Closet
WT	Wash Trough

ABBREVIATIONS cont.

GAS PIPING SYSTEMS	
GFP	Gas Fire Place
GM	Gas Meter
GR	Gas Regulator
KW	Kilowatt
LPG	Liquidified Petroleum Gas
MJ	Megajoules
FIRE PROTECTION PIPING SYSTEM	
EXT	Extinguisher
FH	Fire Hydrant
FHBV	Fire Hydrant Booster Valve
FHR	Fire Hose Reel
FIP	Fire Indicator Panel
FSBV	Fire Sprinkler Booster Valve
SPR	Sprinkler
STD	Sprinkler Test Drain
LEVELS	
AHD	Australian Height Datum
BWL	Bottom Water Level
CL	Ceiling Level
FFL	Finished Floor Level
FSL	Finished Surface Level
GL	Ground Level
H/L	High Level
HP	High Point
IL	Invert Level
L/L	Low Level
m	Metre
mm	Millimetres
RL	Reduced Level
SL	Surface Level
SOB	Soffit of Beam
SOS	Soffit of Slab
SSL	Structural Slab Level
TWL	Top Water Level
UJS	Underside
WL	Water Level
MISCELLANEOUS	
A/C	Air Conditioning
AP	Access Panel
AS	Australian Standards
BCA	Building Code of Australia
CIC	Cast in Column
CIS	Cast in Slab
D	Disabled
DIA	Diameter
DWG	Drawing
EJ	Expansion Joint
ELEC	Electrical Service
HD	Heavy Duty
HV	High Voltage
ID	Inside Diameter
LD	Light Duty
LV	Low Voltage
MIN	Minimum
MJD	Movement Joint Drain
NTS	Not To Scale
OD	Outside Diameter
RHS	Rectangular Hollow Section
SQ	Square
TB	Thrust Block
TEL	Telecommunication Service
TYP	Typical
UNO	Unless Noted Otherwise
UV	Ultra Violet
MATERIALS	
BR	Brass
CI	Cast Iron
CP	Chrome Plated
PV	Pressure Valve
OCL	Cast Iron Cement Lined
Cu	Copper
DI	Ductile Iron Cement Lined
FRC	Fibre Reinforced Concrete
GAL	Galvanised
GMS	Galvanised Mild Steel
HDPE	High Density Polyethylene
MDPE	Medium Density Polyethylene
MS	Mild Steel
NY	Nylon
PEX	Cross Linked Polyethylene
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
SS	Stainless Steel
UPVC	Unplasticised Polyvinyl Chloride
VCP	Vitrified Clay Pipe

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING SCALE	DRAWING TITLE
SW-000	N.T.S.	STORMWATER SERVICES COVER SHEET & LEGEND
SW-001	1:200	INGROUND GROUND LEVEL STORMWATER SERVICES PLAN
SW-002	1:200	GROUND LEVEL STORMWATER SERVICES PLAN
SW-003	1:200	LEVEL 2 STORMWATER SERVICES PLAN
SW-004	1:200	LEVEL 3 STORMWATER SERVICES PLAN
SW-005	1:200	LEVEL 4 STORMWATER SERVICES PLAN
SW-006	1:200	LEVEL 5 STORMWATER SERVICES PLAN
SW-007	1:200	LEVEL 6 STORMWATER SERVICES PLAN
SW-008	1:200	LEVEL 7 STORMWATER SERVICES PLAN
SW-009	1:200	LEVEL 8 STORMWATER SERVICES PLAN
SW-010	1:200	LEVEL 9 STORMWATER SERVICES PLAN
SW-011	1:200	LEVEL 10, 12 & 14 STORMWATER SERVICES PLAN
SW-012	1:200	LEVEL 11 & 13 STORMWATER SERVICES PLAN
SW-013	1:200	LEVEL 15, 17 & 19 STORMWATER SERVICES PLAN
SW-014	1:200	LEVEL 16 & 18 STORMWATER SERVICES PLAN
SW-015	1:200	LEVEL 20, 22, 24 & 26 STORMWATER SERVICES PLAN
SW-016	1:200	LEVEL 21, 23 & 25 STORMWATER SERVICES PLAN
SW-017	1:200	LEVEL 27, 29, 31, 33 & 35 STORMWATER SERVICES PLAN
SW-018	1:200	LEVEL 28, 30, 32 & 34 STORMWATER SERVICES PLAN
SW-019	1:200	LEVEL 36 & 37 STORMWATER SERVICES PLAN
SW-020	1:200	LEVEL 38 STORMWATER SERVICES PLAN
SW-021	1:200	ROOF LEVEL STORMWATER SERVICES PLAN

Services Consultant:

 Suite 6.02, Level 6
 89 York Street
 SYDNEY NSW 2000
 Ph (02) 9262 3400
 Fax (02) 9262 3422
 A.C.N.: 150 234 870
 A.B.N.: 24 917 388 129

Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

Issue	Date	Amendment	Int.	App.
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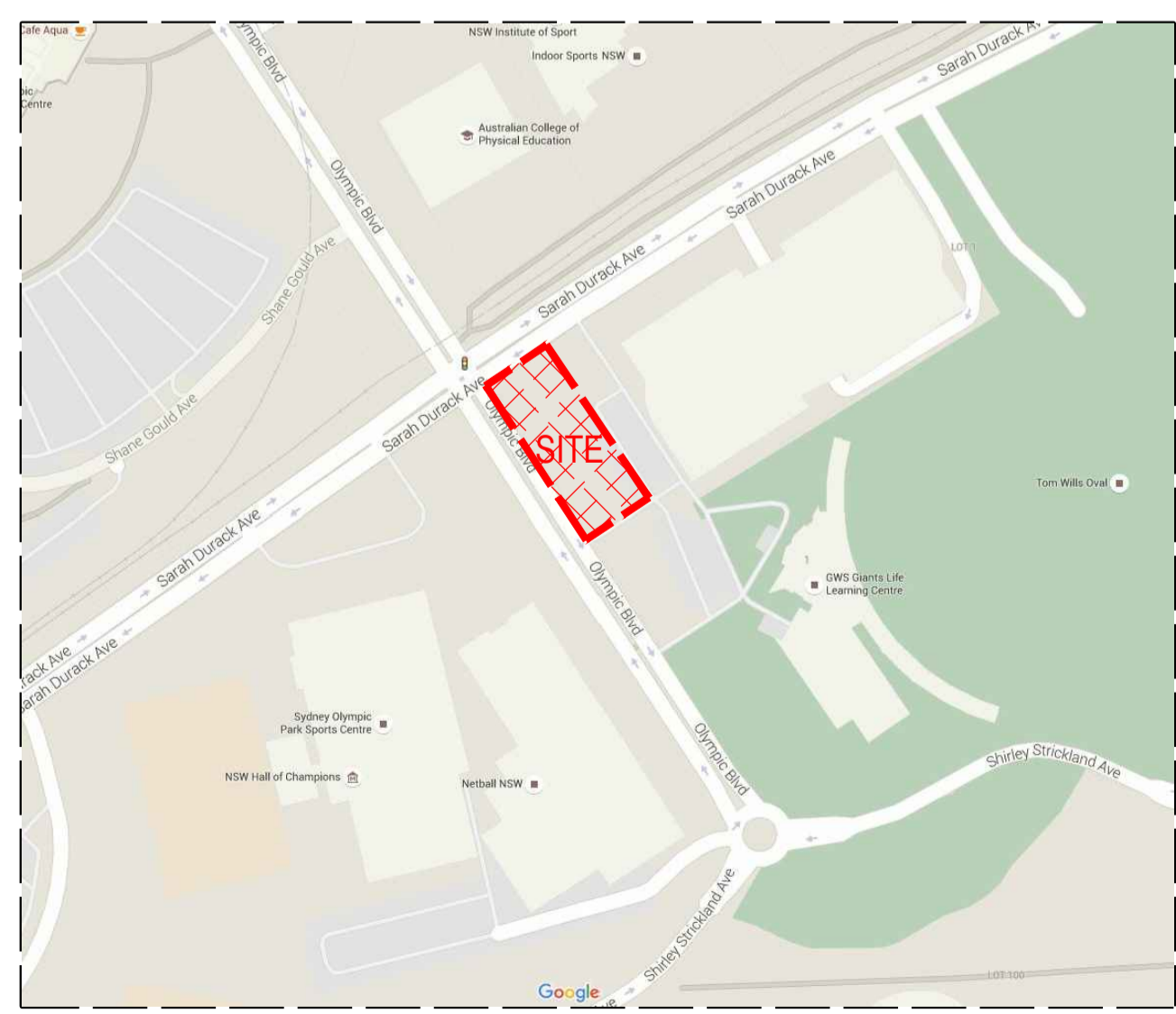
Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**STORMWATER SERVICES
 COVER SHEET & LEGEND**

North Point:

 Quality ISO 9001
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 FS 581006

Job No: **20150077**
 Scale: (A1) N.T.S.
 Dwg No: **SW-000**
 Issue: **01**

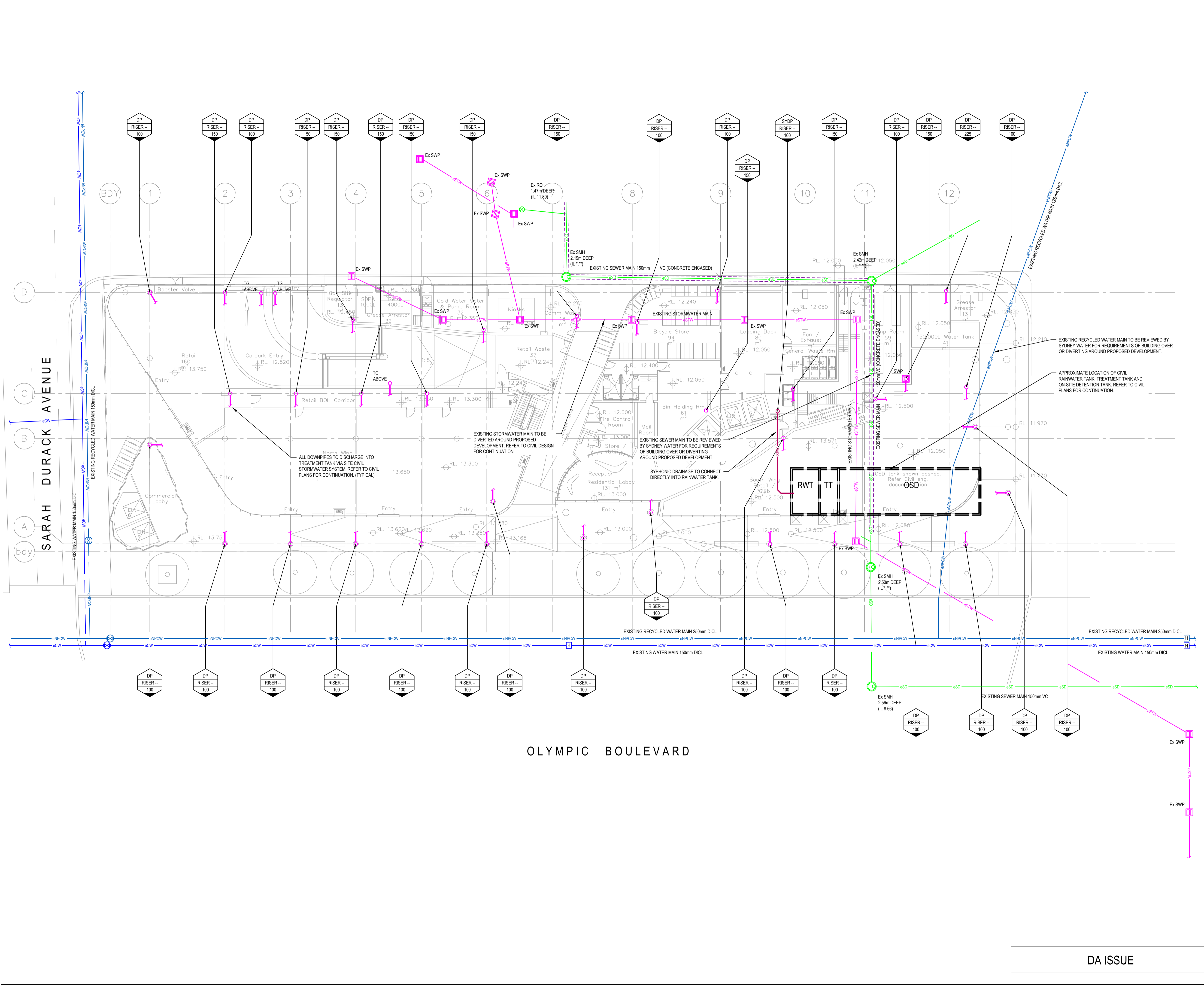


LOCALITY PLAN

DA ISSUE

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 PLOTTED BY: jyoung
 FILE NAME & PATH: Z:\Sydney\Projects\2015\20150077_Site 9 - Sydney Olympic Park\Drawings\Current Drawings\SW-000.dwg
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Services Consultant:
INSYNC SERVICES
 Pty Ltd
 Suite 6.02, Level 6
 89 York Street
 SYDNEY NSW 2000
 Ph (02) 9262 3400
 Fax (02) 9262 3422
 A.C.N.: 150 234 870
 A.B.N.: 24 917 388 129

Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

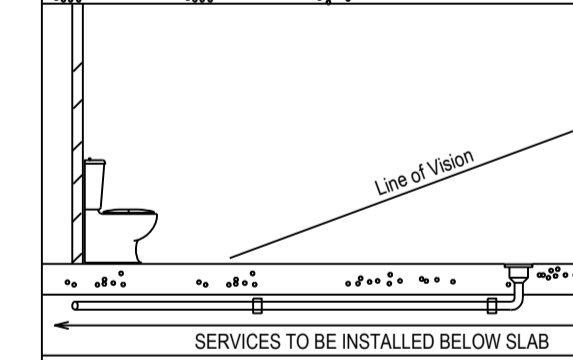
Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

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HYDRAULIC SERVICES

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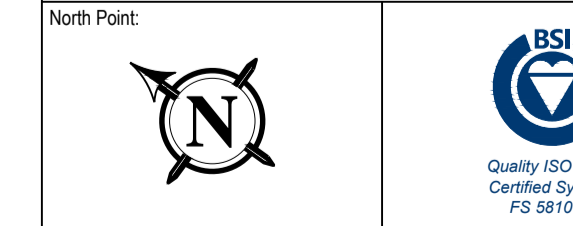
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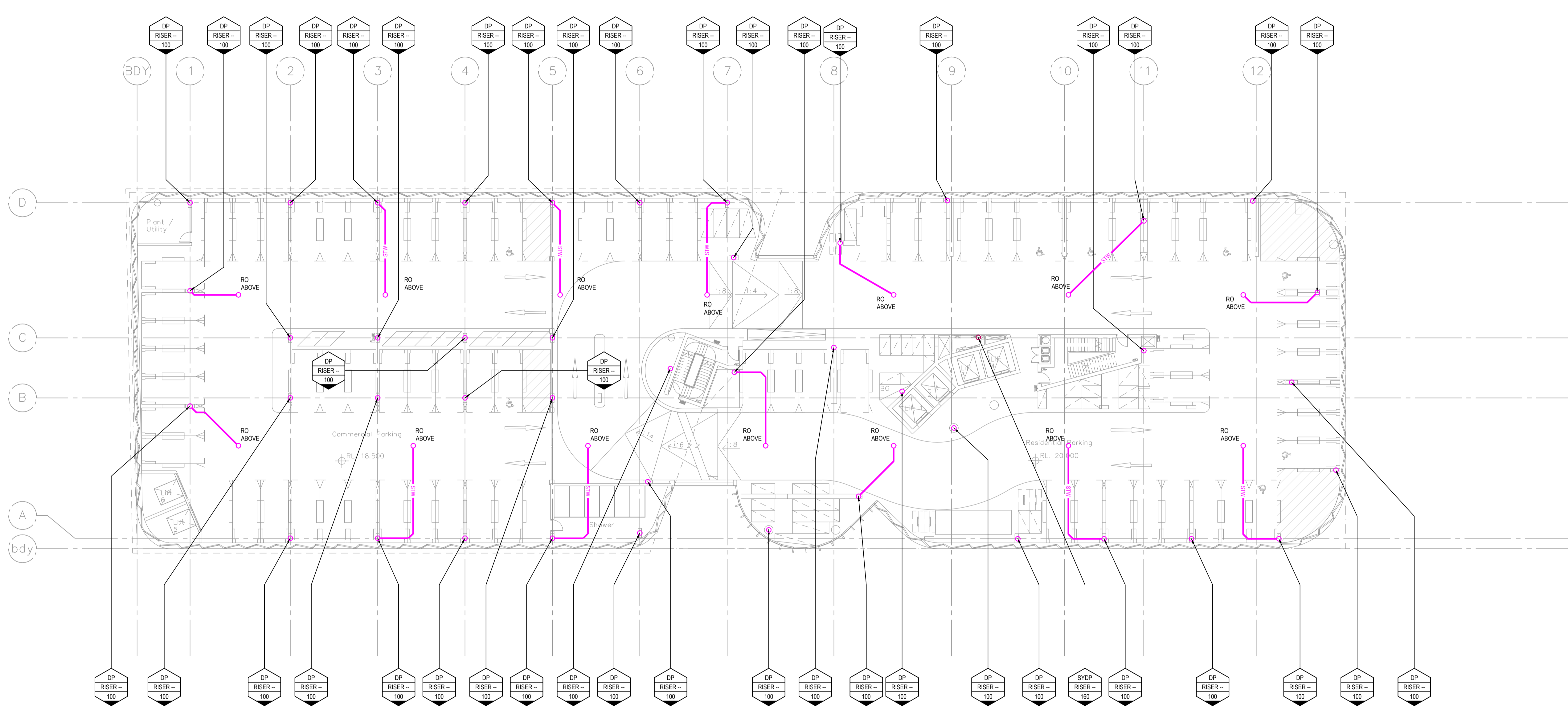
Project:
**Site 9,
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Drawing Title:
**INGROUND GROUND
 LEVEL STORMWATER
 SERVICES PLAN**




Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-001** Issue: **01**

DA ISSUE



Services Consultant:



Suite 6.02, Level 6
89 York Street
SYDNEY NSW 2000
Ph (02) 9262 3400
Fax (02) 9262 3422
A.C.N.: 150 234 870
A.B.N.: 24 917 388 129

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Client:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Project Manager:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

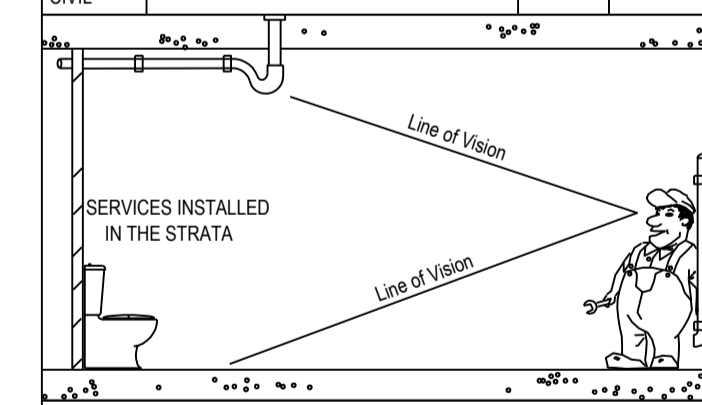
Architect:
Bates Smart Architects
43 Brisbane Street
Surry Hills
NSW 2010
02 8354 5100

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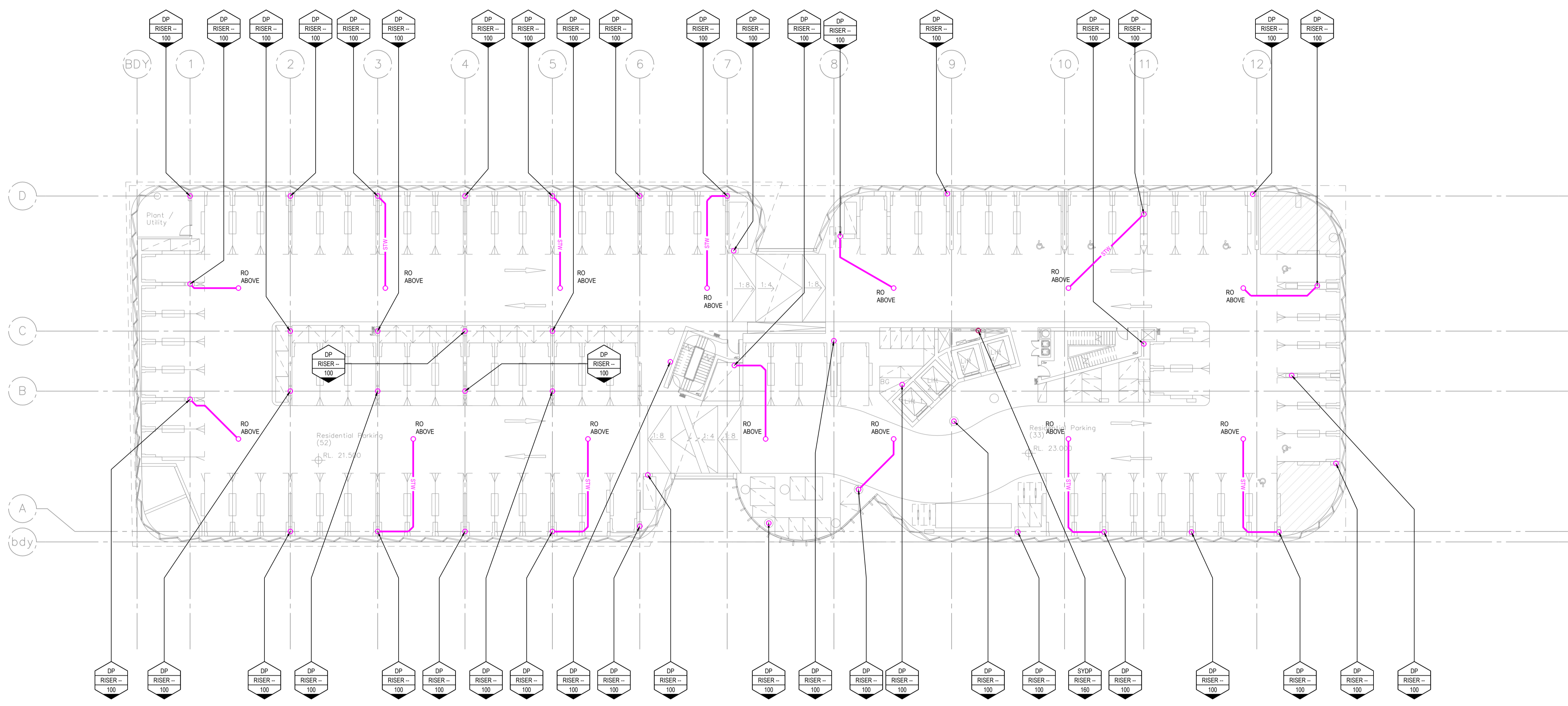
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**LEVEL 3
STORMWATER
SERVICES PLAN**

North Point: 



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Job No: **20150077** Scale: (A1) 1:200
Dwg No: **SW-004** Issue: **01**

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Services Consultant:



Suite 6.02, Level 6
89 York Street
SYDNEY NSW 2000
Ph (02) 9262 3400
Fax (02) 9262 3422
A.C.N.: 150 234 970
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Client:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Project Manager:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Architect:
Bates Smart Architects
43 Brisbane Street
Surry Hills
NSW 2010
02 8354 5100

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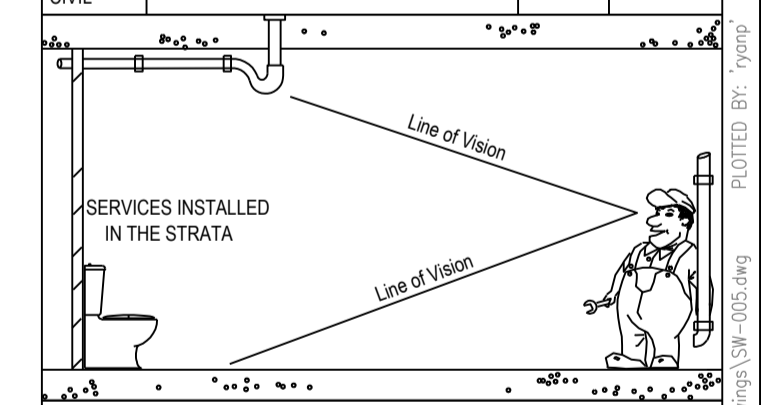


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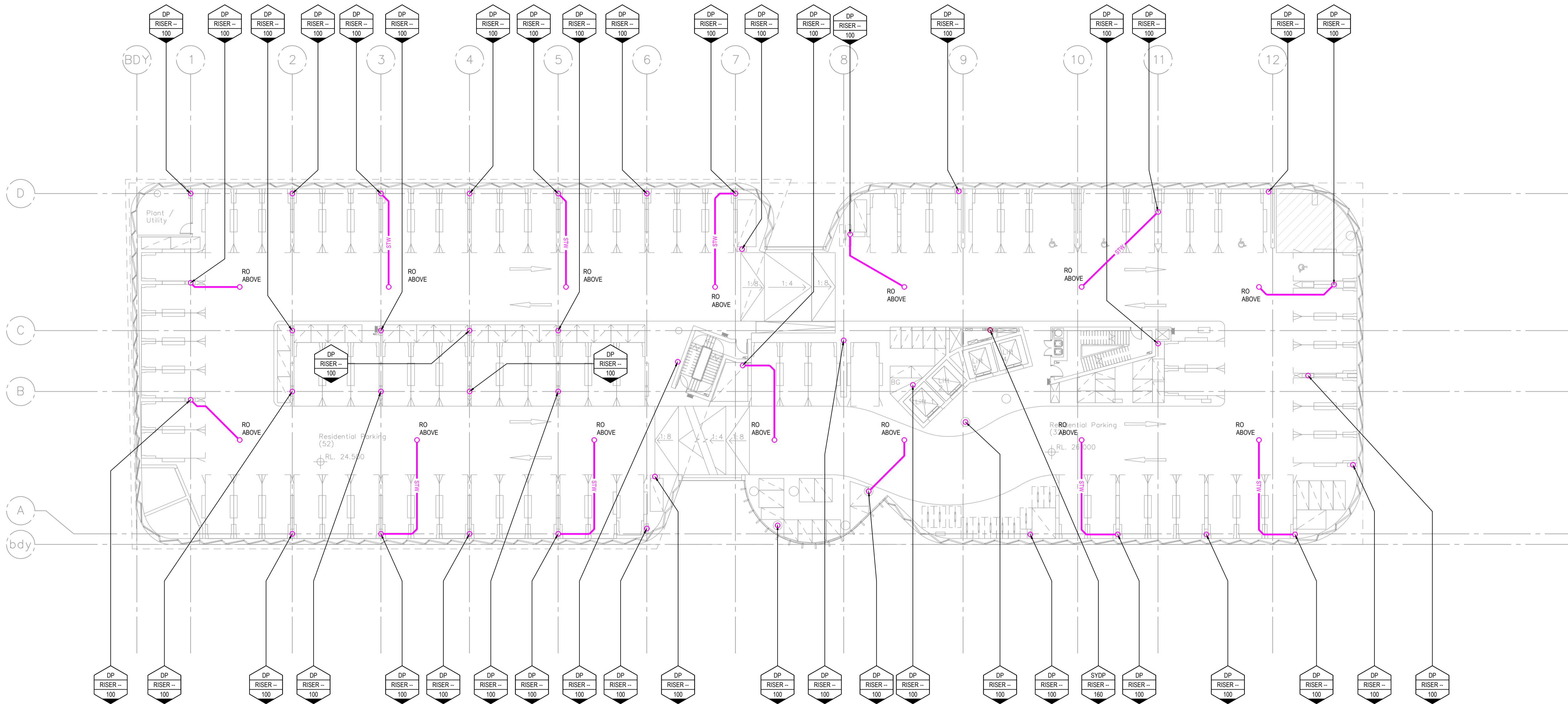
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**LEVEL 4
STORMWATER
SERVICES PLAN**

North Point:



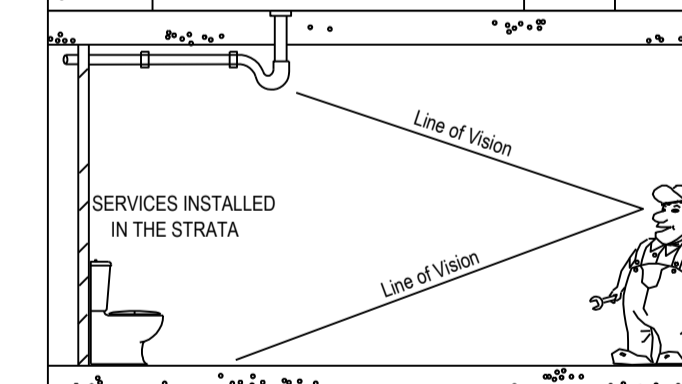

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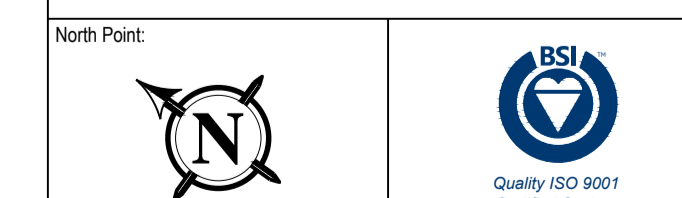
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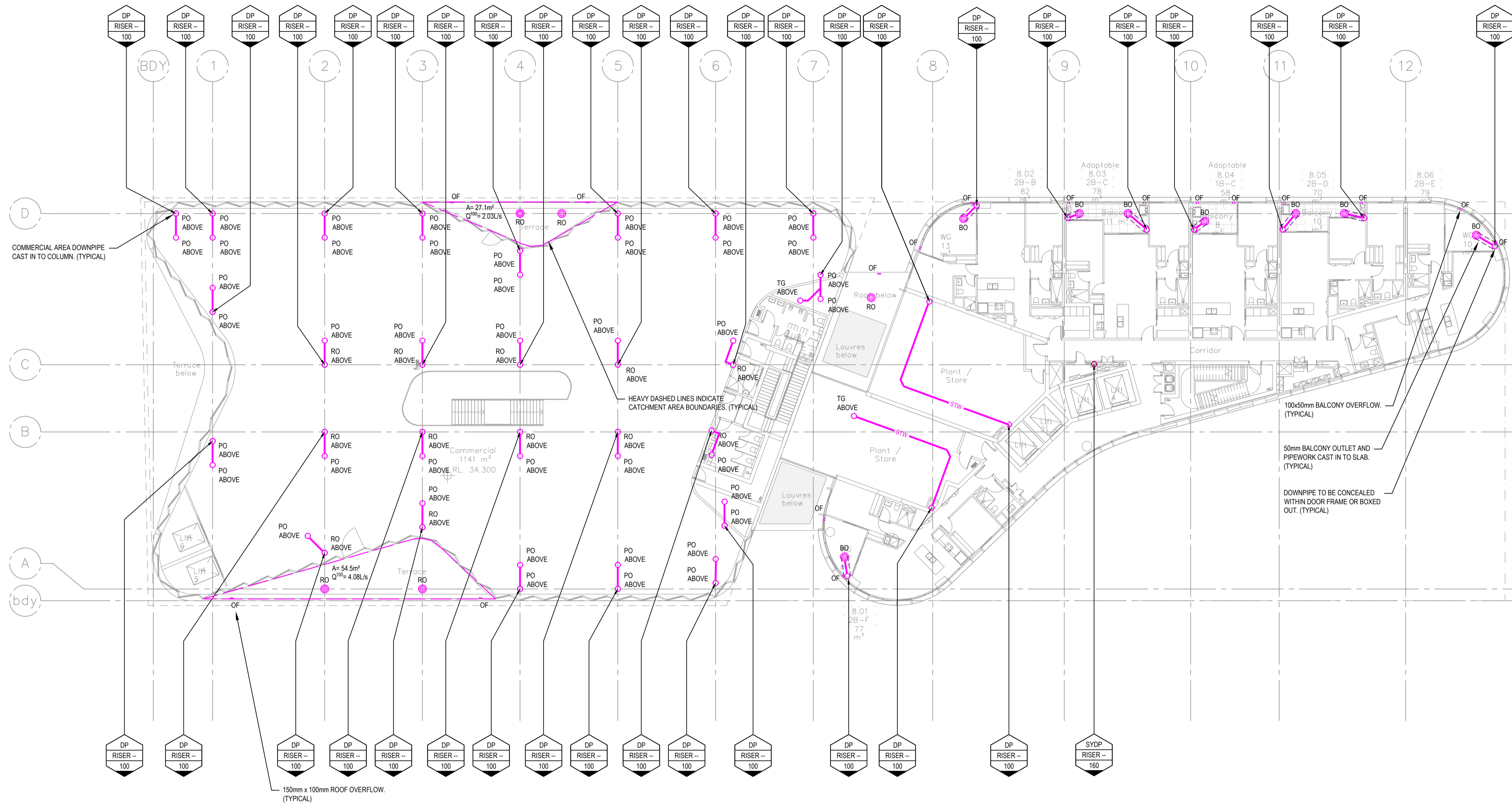
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Drawing Title:
LEVEL 5
STORMWATER
SERVICES PLAN



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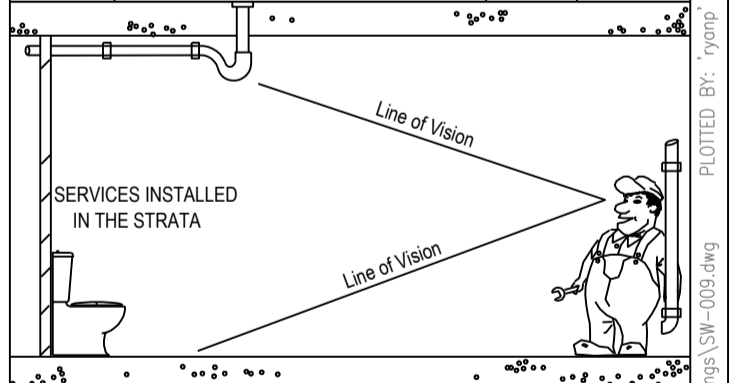
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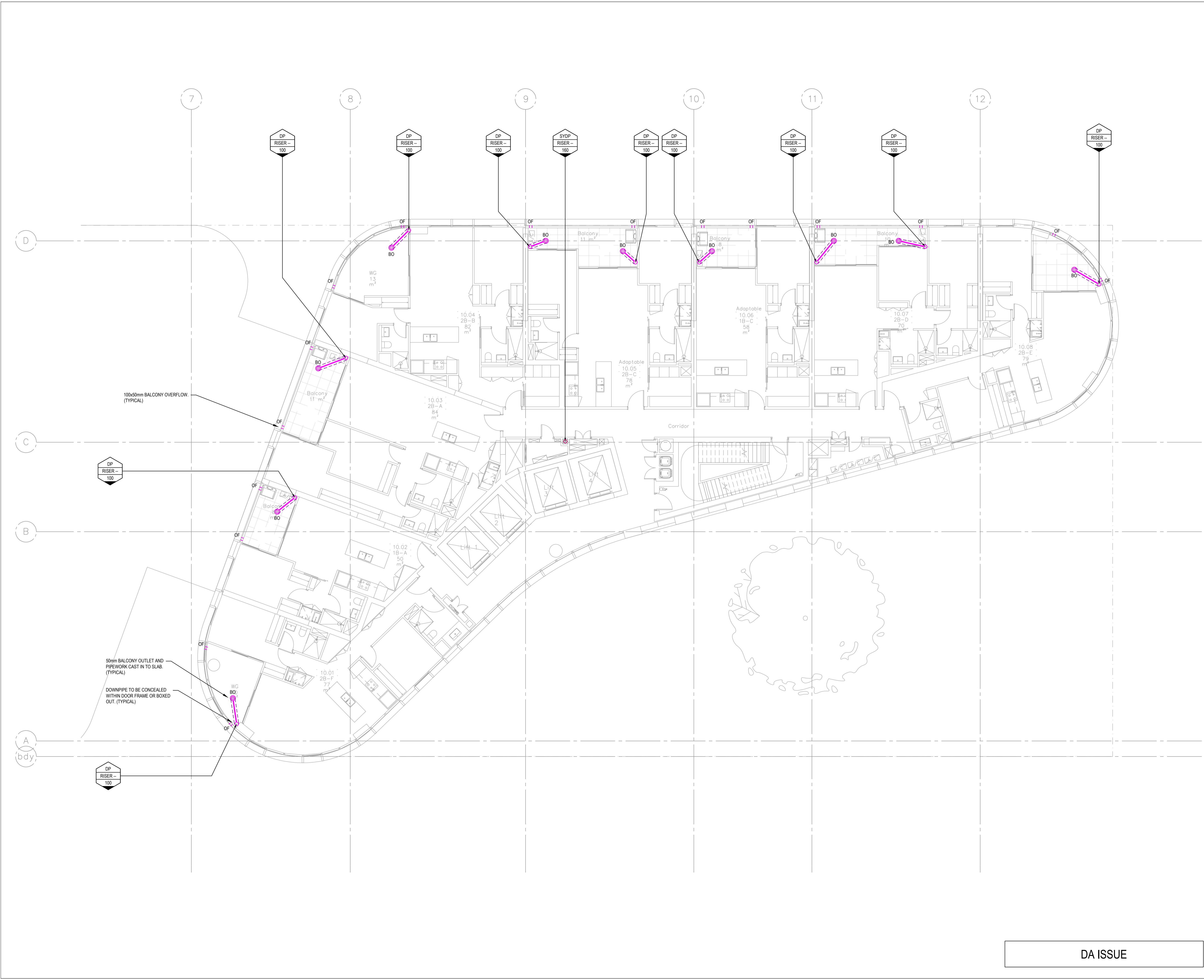
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Drawing Title:
LEVEL 8
STORMWATER
SERVICES PLAN



Job No: **20150077** Scale: (A1) 1:200
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DA ISSUE



Services Consultant:

INSYNC SERVICES
 PTY LTD

Suite 6.02, Level 6
 89 York Street
 SYDNEY NSW 2000
 Ph (02) 9262 3400
 Fax (02) 9262 3422
 A.C.N.: 150 224 970
 A.B.N.: 24 917 388 129

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Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

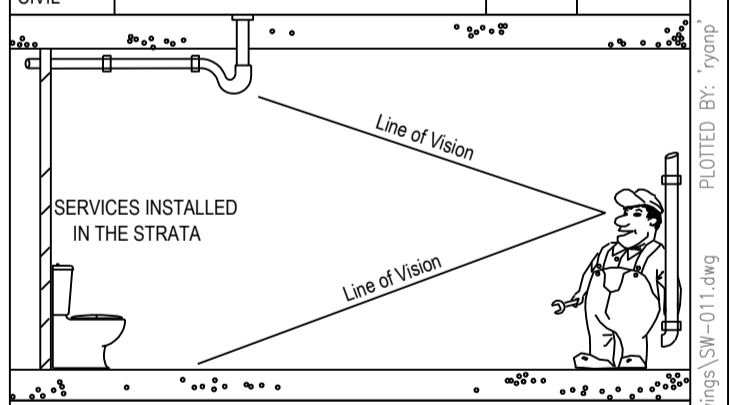
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HYDRAULIC SERVICES

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Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 10, 12 & 14
 STORMWATER
 SERVICES PLAN**

North Point: 




Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-011** Issue: **01**

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Services Consultant:



Suite 6.02, Level 6
89 York Street
SYDNEY NSW 2000
Ph (02) 9262 3400
Fax (02) 9262 3422
A.C.N.: 150 224 970
A.B.N.: 24 917 388 129

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ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Project Manager:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Architect:
Bates Smart Architects
43 Brisbane Street
Surry Hills
NSW 2110
02 8354 5100

INSYNC SERVICES

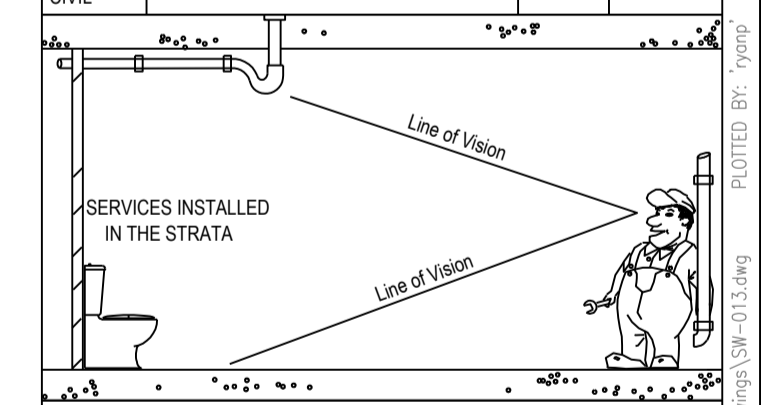
HYDRAULIC SERVICES

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

SERVICE	DRAWING NUMBER	ISSUE	DATE
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STRUCT			
ELEC			
CIVIL			

COORDINATED REFERENCE DRAWINGS

SERVICE	DRAWING NUMBER	ISSUE	DATE
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CIVIL			



Project:
**Site 9,
3 Olympic Boulevard
Sydney Olympic Park**

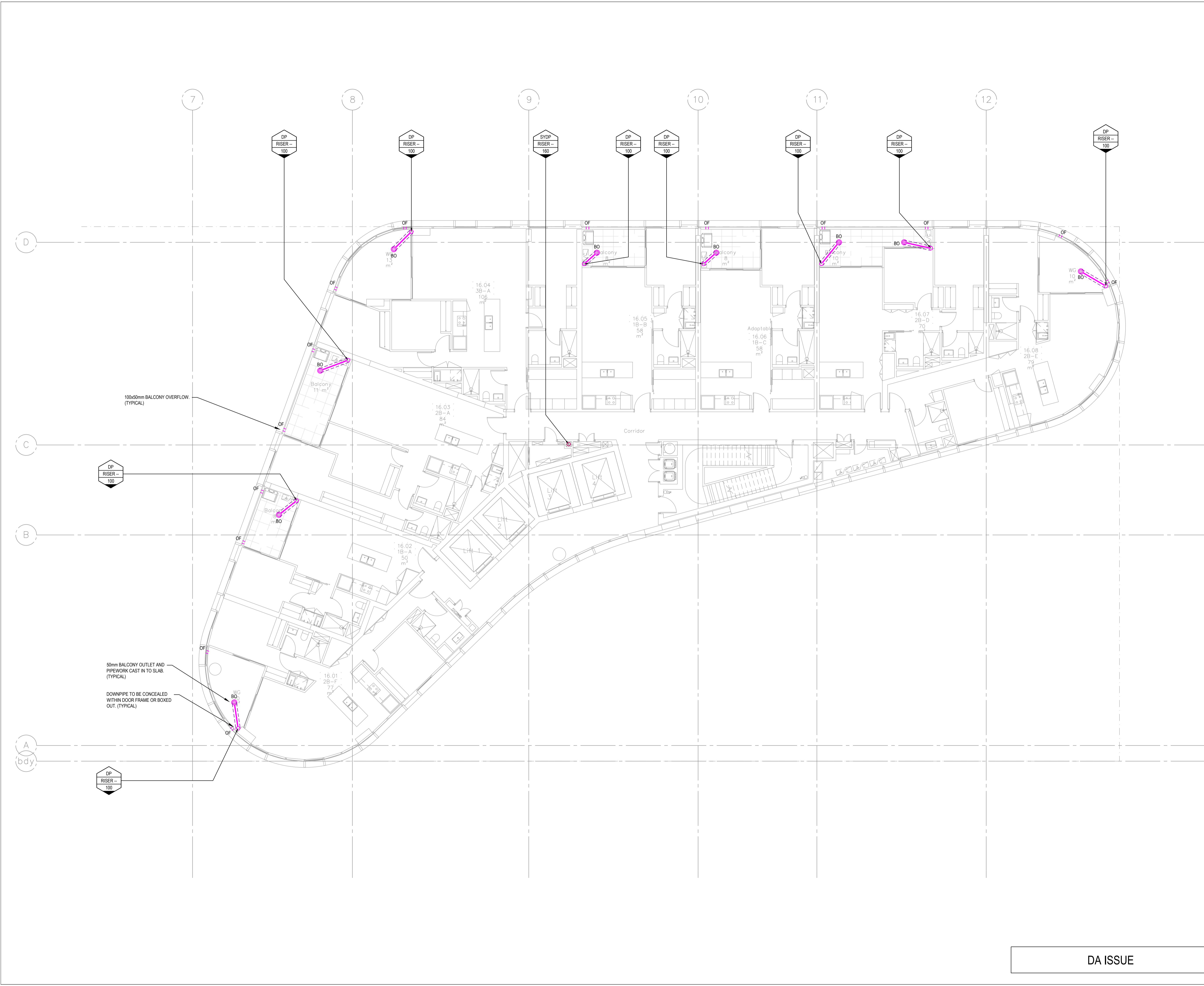
Drawing Title:
**LEVEL 15, 17 & 19
STORMWATER
SERVICES PLAN**


North Point:




Job No: **20150077** Scale: (A1) 1:200
Dwg No: **SW-013** Issue: **01**

DA ISSUE



Services Consultant:

INSYNC SERVICES
 PTY LTD

Suite 6.02, Level 6
 89 York Street
 SYDNEY NSW 2000
 Ph (02) 9262 3400
 Fax (02) 9262 3422
 A.C.N.: 150 224 970
 A.B.N.: 24 917 388 129

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Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

INSYNC SERVICES

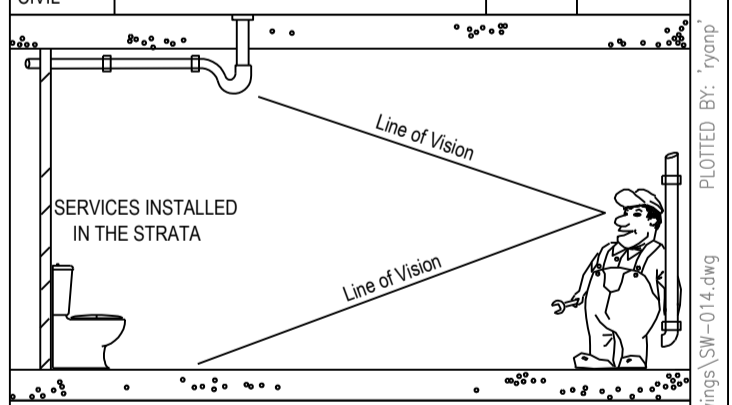
HYDRAULIC SERVICES

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

SERVICE	DRAWING NUMBER	ISSUE	DATE
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CIVIL			

COORDINATED REFERENCE DRAWINGS

SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH			
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STRUCT			
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CIVIL			



Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 16 & 18
 STORMWATER
 SERVICES PLAN**

North Point: 



 Quality ISO 9001
 Certified System
 FS 581006

Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-014** Issue: **01**

DA ISSUE



Services Consultant:



Suite 6.02, Level 6
89 York Street
SYDNEY NSW 2000
Ph (02) 9262 3400
Fax (02) 9262 3422
A.C.N.: 150 224 970
A.B.N.: 24 917 388 129

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Client:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Project Manager:
ECOVE GROUP
Cnr. Australia Avenue and Herb Eloit Avenue
Sydney Olympic Park
NSW 2127
02 9753 0444

Architect:
Bates Smart Architects
43 Brisbane Street
Surry Hills
NSW 2010
02 8354 5100

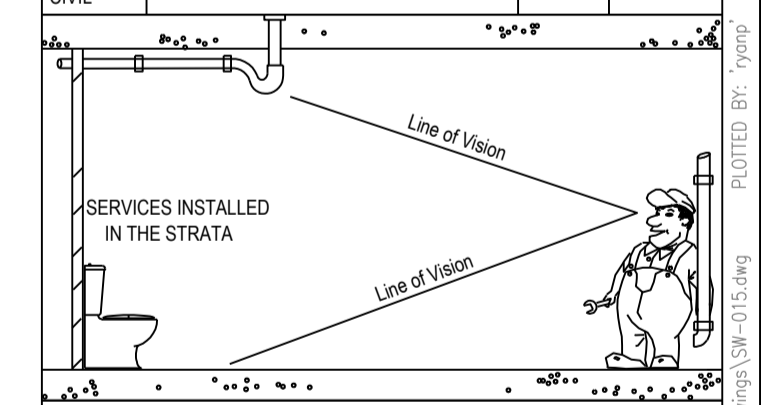
INSYNC SERVICES



Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

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COORDINATED REFERENCE DRAWINGS			
SERVICE	DRAWING NUMBER	ISSUE	DATE
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CIVIL			



Project:
**Site 9,
3 Olympic Boulevard
Sydney Olympic Park**

Drawing Title:
**LEVEL 20, 22, 24 & 26
STORMWATER
SERVICES PLAN**

North Point:




Job No: **20150077** Scale: (A1) 1:200
Dwg No: **SW-015** Issue: **01**

DA ISSUE

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Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

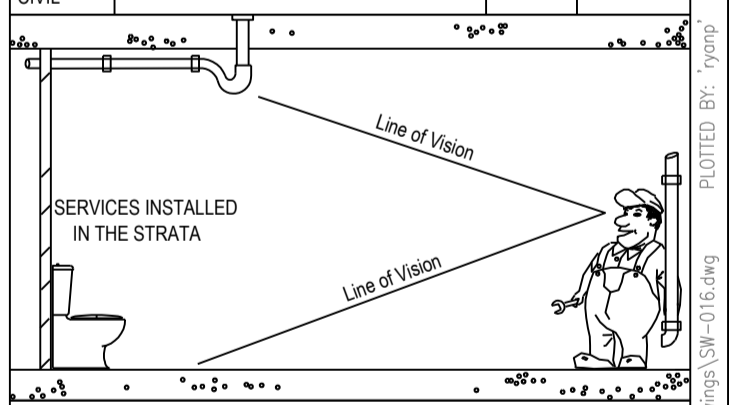
Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

COORDINATED REFERENCE DRAWINGS	SERVICE	DRAWING NUMBER	ISSUE	DATE
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COORDINATED REFERENCE DRAWINGS	SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH				
MECH				
STRUCT				
ELEC				
CIVIL				



Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 21, 23 & 25
 STORMWATER
 SERVICES PLAN**



Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-016** Issue: **01**

DA ISSUE



100x50mm BALCONY OVERFLOW.
 (TYPICAL)

DP
 RISER --
 100

50mm BALCONY OUTLET AND
 PIPEWORK CAST IN TO SLAB.
 (TYPICAL)

DOWNPIPE TO BE CONCEALED
 WITHIN DOOR FRAME OR BOXED
 OUT. (TYPICAL)

DP
 RISER --
 100

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Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

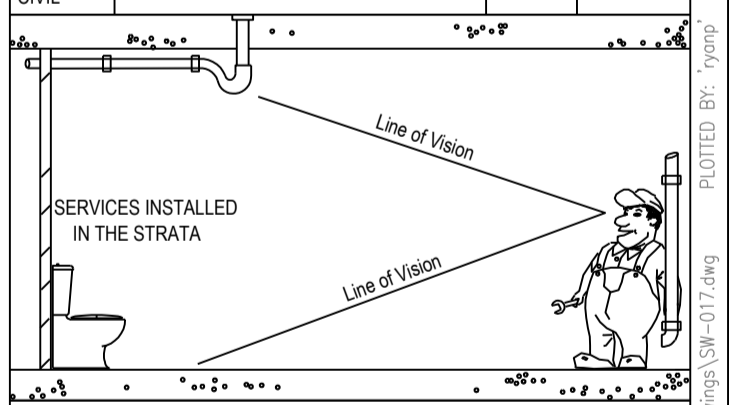
Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH			
MECH			
STRUCT			
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COORDINATED REFERENCE DRAWINGS

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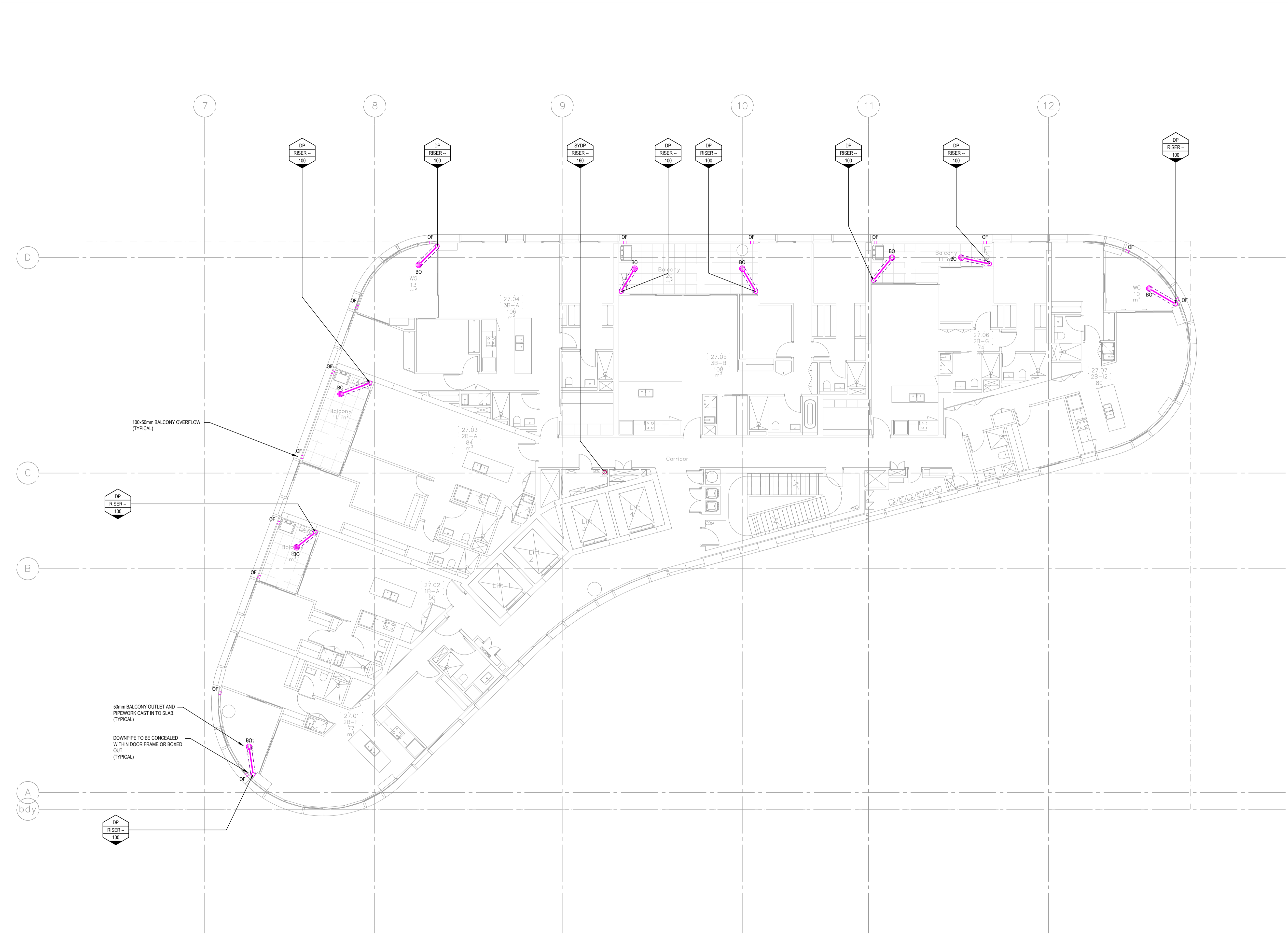


Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 27,29, 31, 33 & 35
 STORMWATER
 SERVICES PLAN**



Job No: **20150077** Scale: (A1) 1:100
 Dwg No: **SW-017** Issue: **01**



DA ISSUE

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Client:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

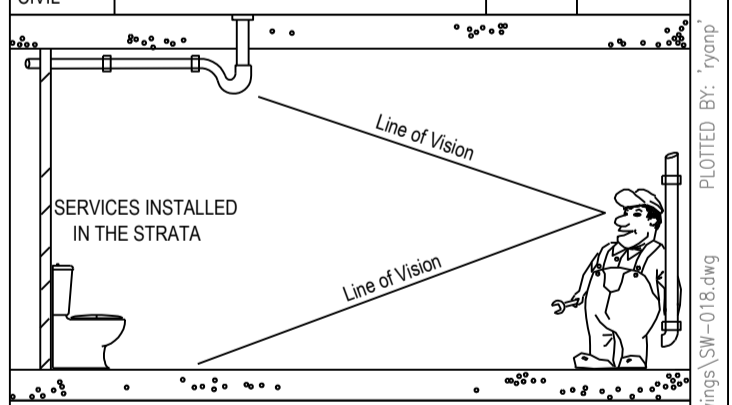
Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH			
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COORDINATED REFERENCE DRAWINGS

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MECH			
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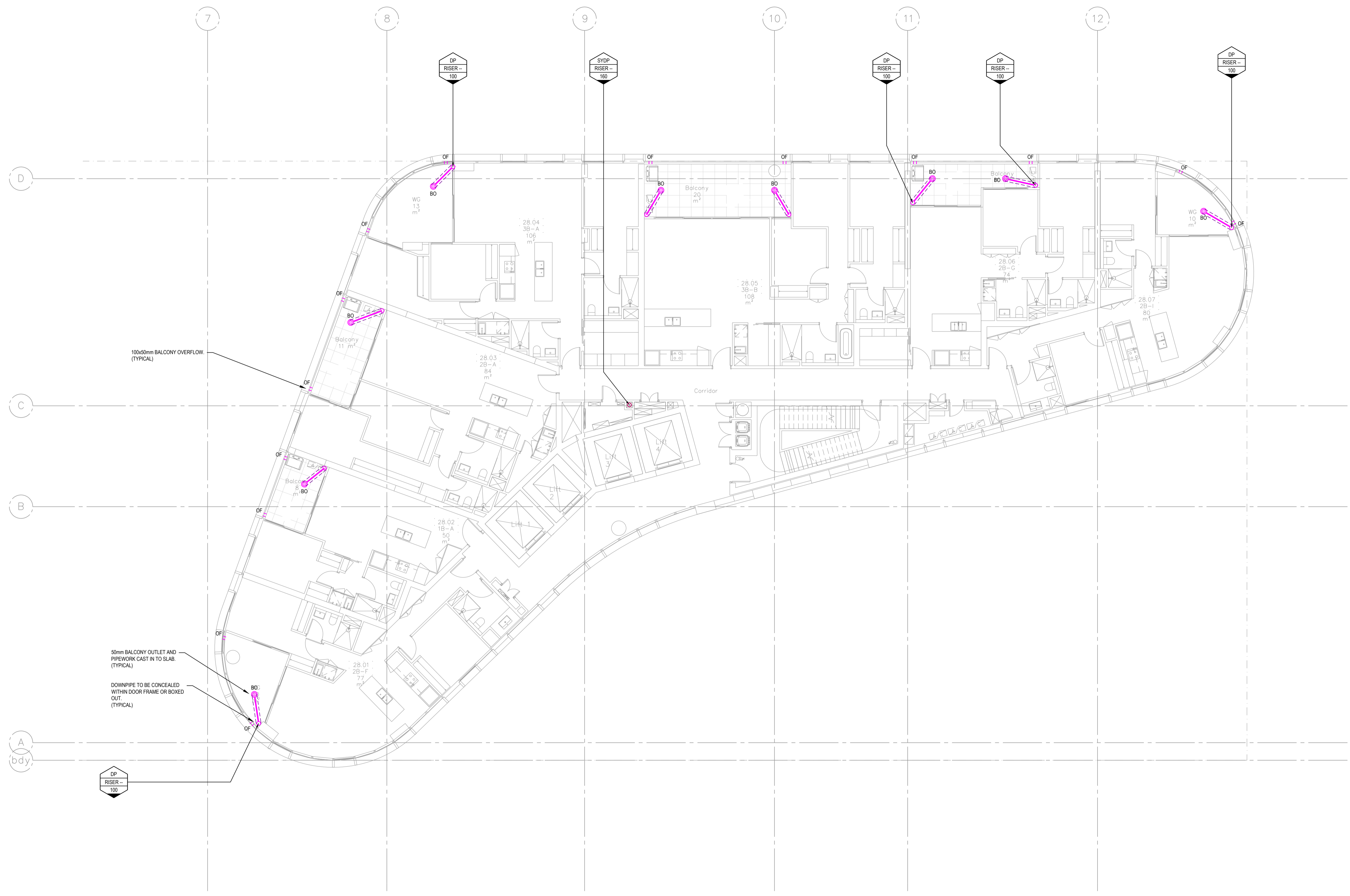


Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 28, 30, 32 & 34
 STORMWATER
 SERVICES PLAN**



Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-018** Issue: **01**



100x50mm BALCONY OVERFLOW.
 (TYPICAL)

50mm BALCONY OUTLET AND
 PIPEWORK CAST IN TO SLAB.
 (TYPICAL)
 DOWNPIPE TO BE CONCEALED
 WITHIN DOOR FRAME OR BOXED
 OUT.
 (TYPICAL)

DA ISSUE

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Client:
ECOVE GROUP
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 Sydney Olympic Park
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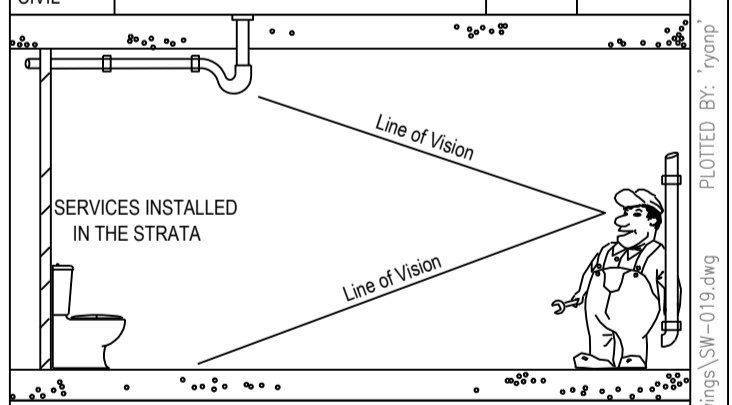
Project Manager:
ECOVE GROUP
 Cnr. Australia Avenue and Herb Eloit Avenue
 Sydney Olympic Park
 NSW 2127
 02 9753 0444

Architect:
Bates Smart Architects
 43 Brisbane Street
 Surry Hills
 NSW 2010
 02 8354 5100

Issue	Date	Amendment	Int.	App.
01	04/03/16	DA ISSUE	RP	BL

COORDINATED REFERENCE DRAWINGS
SERVICE DRAWING NUMBER ISSUE DATE
ARCH
MECH
STRUCT
ELEC
CIVIL

SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH			
MECH			
STRUCT			
ELEC			
CIVIL			



Project:
**Site 9,
 3 Olympic Boulevard
 Sydney Olympic Park**

Drawing Title:
**LEVEL 36 & 37
 STORMWATER
 SERVICES PLAN**

North Point:




Job No: **20150077** Scale: (A1) 1:200
 Dwg No: **SW-019** Issue: **01**

DA ISSUE

