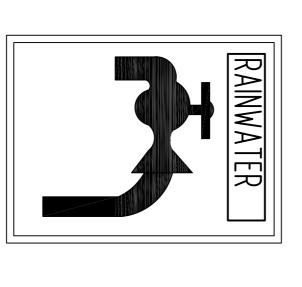


200mm

This is an on-site stormwater detention system required by Ku-ring-gai Council. It is an offence to reduce the volume of the tank or basin or to interfere with the orifice plate that controls the outflow. The owner must clean the base of the outlet control pit and the debris screen of debris and sediment on a regular basis. This plate must not be removed.

OSD WARNING SIGN N.T.S.

300mm



-DIMENSIONS: 120mm X 150mm -background colour should be <u>YELLOW;</u> -text is <u>WHITE</u> on a <u>BLACK</u> background; -tap symbol is <u>BLACK.</u>

SIGNAGE FOR RAINWATER TANKS AND OUTLETS



COLOURS:
'DANGER' AND BACKGROUND
ELLIPTICLE AREA
RECTANGULE CONTAINING ELLIPSE
OTHER LETTERING AND BORDER

CONFINED SPACE DANGER SIGN N.T.S

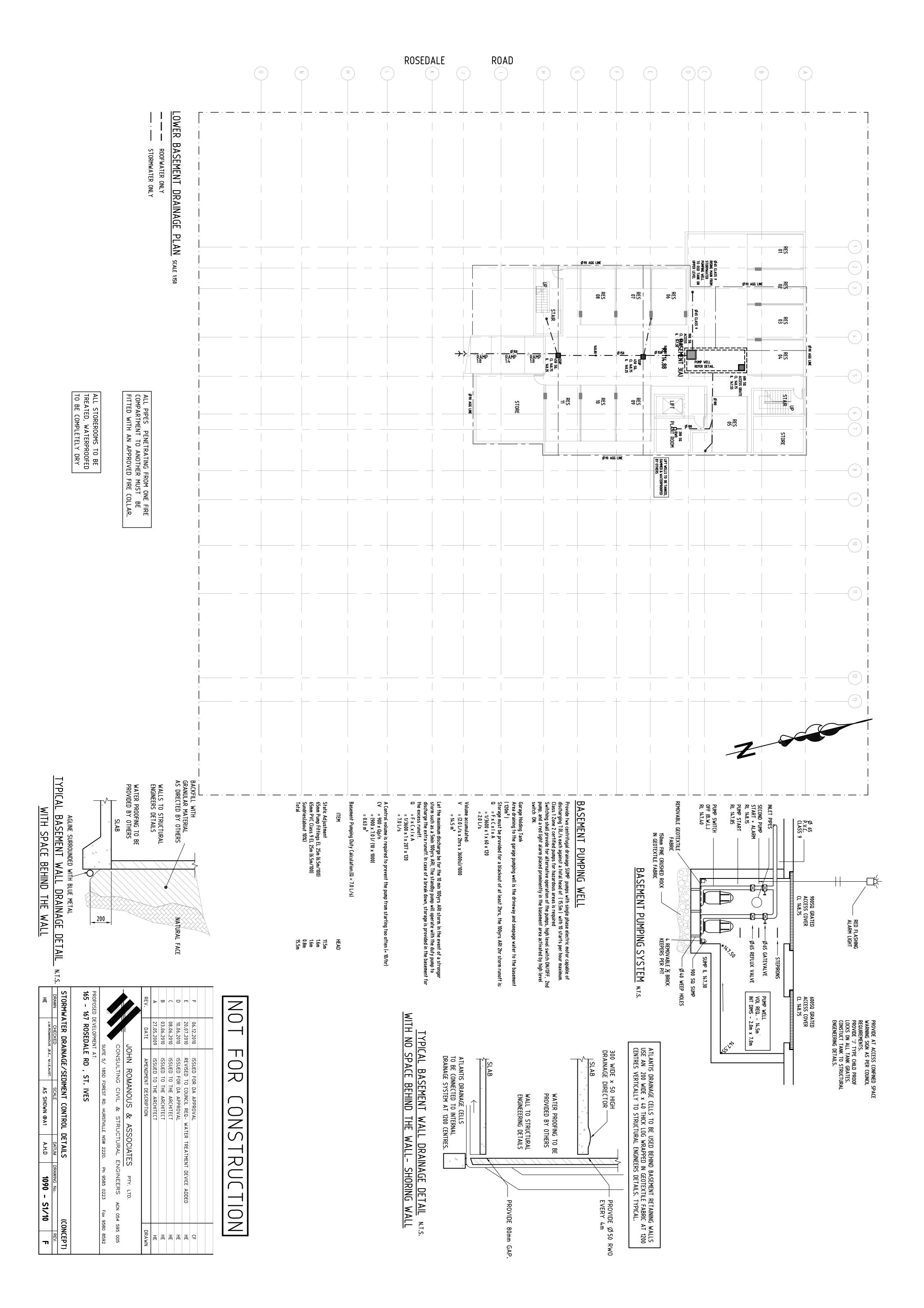
1. A CONFINED SPACE DANGER SIGN SHAL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

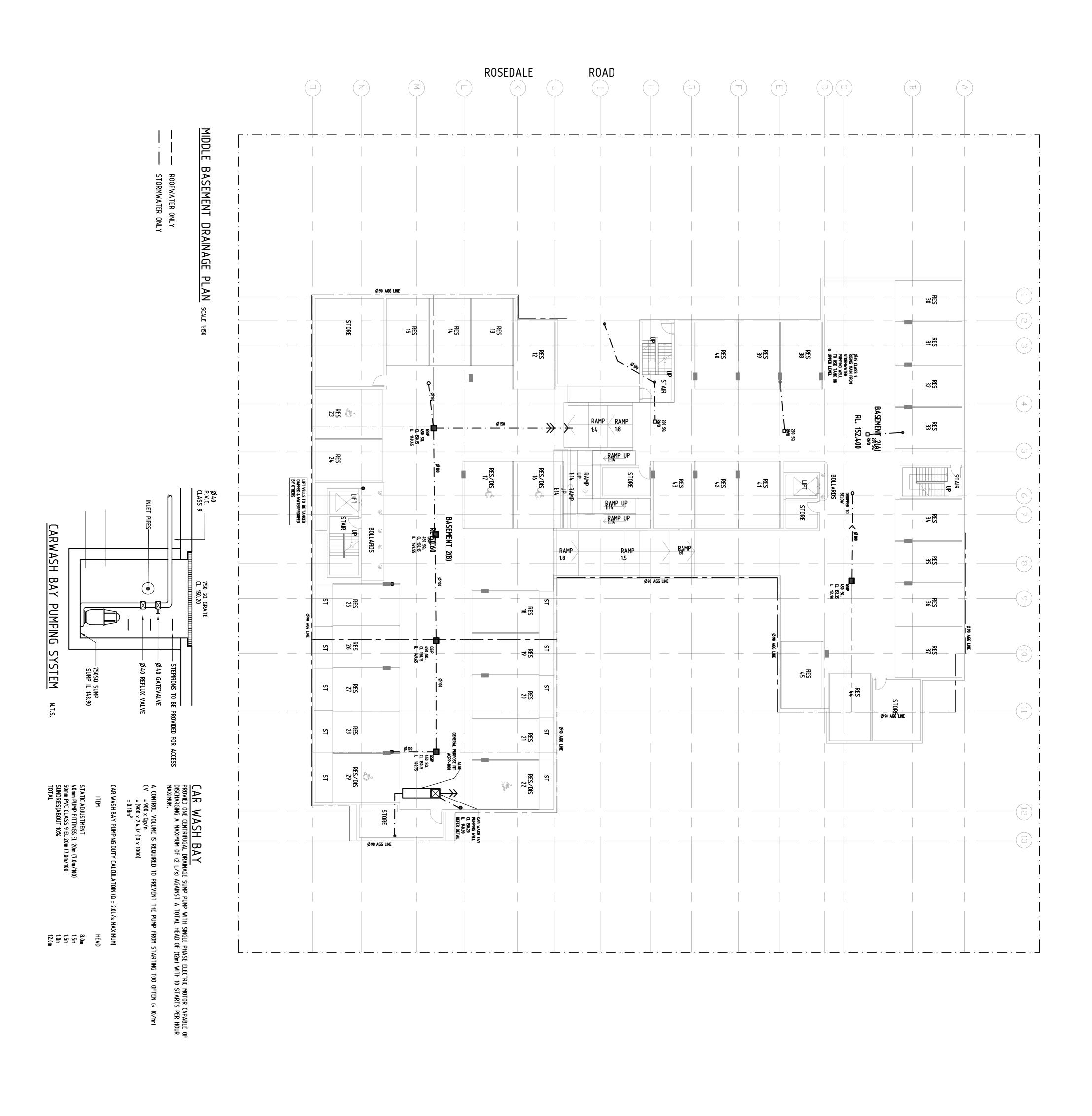
2. MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

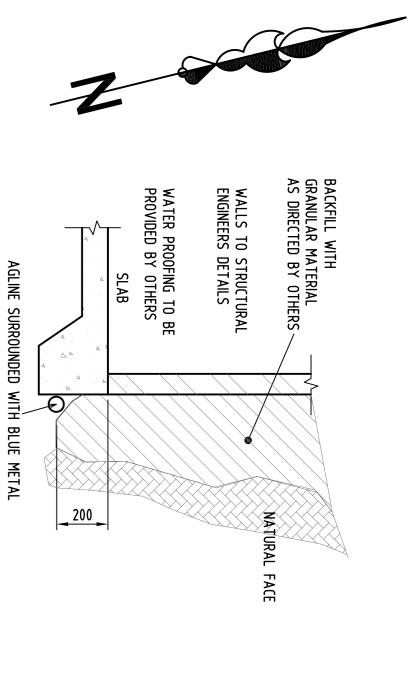
3. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPELINE

0R

| TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED TO THE ARCHITECT TO THE ARCHITECT TO THE ARCHITECT ENT DESCRIPTION MANOUS & ASSOCIATES PTY. LTD. POPERST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 ST. IVES DIMENT CONTROL DETAILS COI | PROVAL IL REQ. WATER TREATMENT DEVICE ADDED PROVAL CHITECT CHITECT IPTION STRUCTURAL ENGINEERS ACN 05. D. HURSTVILLE NSW 2220. Ph 9585 0223 Fax CONTROL DETAILS CONTROL DETAILS | '10 F | 1090 - \$10/10 | A.H.D | AS SHOWN @A1 | B.E., M.I.E.AUST. | J.M.ROMANOUS ,B.E., M.I.E.AUST. | 詽 |
|--|--|------------|-----------------|------------|-----------------------|-------------------|---------------------------------|-----------------------------|
| PROVAL IL REQ. WATER TREATMENT DEVICE ADDED PROVAL CHITECT CHITECT IPTION IS & ASSOCIATES PTY. LTD. STRUCTURAL ENGINEERS ACN 05. D. HURSTVILLE NSW 2220. Ph 9585 0223 Fax CONTROL DETAILS | PROVAL IL REQ. WATER TREATMENT DEVICE ADDED PROVAL CHITECT CHITECT IPTION STRUCTURAL ENGINEERS ACN 05- D. HURSTVILLE NSW 2220. Ph 9585 0223 Fax CONTROL DETAILS | REV. | DRAWING No. | DATUM | SCALE | | CHECKED | DRAWN |
| PROVAL IL REQ WATER TREATMENT DEVICE ADDED PROVAL CHITECT CHITECT CHITECT IPTION PTION BY ASSOCIATES PTY. LTD. BY STRUCTURAL ENGINEERS ACN 054 59 D. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 | PROVAL IL REQ. WATER TREATMENT DEVICE ADDED PROVAL CHITECT CHI | (CONCEP1 | | DETAILS | IMENT CONTROL | NAGE/SEI | ATER DRAI | STORMW |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 | | | | r. IVES | E RD , S | DEVELOPMENT 7 ROSEDAL | PROPOSED 165 – 16 |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 | 9580 8592 | | NSW 2220. | FOREST RD. HURSTVILLE | ITE 5/ 185D | SU | |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION JOHN ROMANOUS & ASSOCIATES PTY. LTD. | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT AMENDMENT DESCRIPTION JOHN ROMANOUS & ASSOCIATES PTY. LTD. | 54 595 005 | | CTURAL E | 3 CIVIL & STRU | ONSULTIN | CO | |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION DI | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION | | • | SOCIATE | MANOUS & AS | OHN ROI | J(| |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT | DRAWN | | | NT DESCRIPTION | AMENDME | DATE | REV. |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | 픮 | | |) THE ARCHITECT | ISSUED T | 27.05.2009 | Þ |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | 픎 | | |) THE ARCHITECT | ISSUED T | 03.06.2010 | В |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL | | | |) THE ARCHITECT | ISSUED TO | 08.06.2010 | _ |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED | 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED | 퓼 | | |)R DA APPROVAL | ISSUED FO | 10.06.2010 | 0 |
| 06.12.2010 ISSUED FOR DA APPROVAL | 06.12.2010 ISSUED FOR DA APPROVAL | 픘 | NT DEVICE ADDED | ER TREATME | TO COUNCIL REQ- WAT | REVISED | 20.07.2010 | т |
| | | ÇF | | | OR DA APPROVAL | ISSUED FO | 06.12.2010 | Ŧ |







TYPICAL

WITH SPACE BEHIND THE WALL

BASEMENT WALL DRAINAGE

DETAIL

ATLANTIS DRAINAGE CELLS TO BE USED BEHIND BASEMENT RETAINING WALLS USE AN 200 WIDE \times 40 THICK LOG WRAPPED IN GEOTEXTILE FABRIC AT 1200 CENTRES VERTICALLY TO STRUCTURAL ENGINEERS DETAILS. TYPICAL.

300 WIDE x 50 HIGH DRAINAGE DIRECTOR

PROVIDE Ø50 RWO EVERY 4m

SLAB

WATER PROOFING TO BE PROVIDED BY OTHERS

WALL TO STRUCTURAL ENGINEEERING DETAILS

PROVIDE 80mm GAP.

| | | REV. | Α | В | 0 | D | ш | т | |
|---|--------------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|--|------------------------|--|
| | _ | DATE | 27.05.2009 | 0102.30.60 | 0102.30.80 | 10.06.2010 | 20.07.2010 | 06.12.2010 | |
| CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 | JOHN ROMANOUS & ASSOCIATES PTY. LTD. | AMENDMENT DESCRIPTION | ISSUED TO THE ARCHITECT | ISSUED TO THE ARCHITECT | ISSUED TO THE ARCHITECT | ISSUED FOR DA APPROVAL | REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED | ISSUED FOR DA APPROVAL | |
| 054 595 005 | | DRAWN | HE | HE | HE | HE | HE | CF | |
| | | | | | | | | | |

0 R CONSTRUC

ALL STOREROOMS TO BE TREATED, WATERPROOFED TO BE COMPLETELY DRY

ALL PIPES PENETRATING FROM ONE FIRE COMPARTMENT TO ANOTHER MUST BE FITTED WITH AN APPROVED FIRE COLLAR.

TYPICAL BASEMENT WALL DRAINAGE DETAIL N.T WITH NO SPACE BEHIND THE WALL- SHORING WALL

ATLANTIS DRAINAGE CELLS
TO BE CONNECTED TO INTERNAL
DRAINAGE SYSTEM AT 1200 CENTRES.

TYPICAL

| | EATMENT DEVICE ADDED HE HE HE HE RATES PTY. LTD. PRAWI 22220. Ph 9585 0223 Fax 9580 8592 | CONSULTING CIVIL & STRUCTURAL ENGINEERS SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 02 | JOHN ROMANOUS & ASSOCIATES | REV. DATE AMENDMENT DESCRIPTION | A 27.05.2009 ISSUED TO THE ARCHITECT | B 03.06.2010 ISSUED TO THE ARCHITECT | C 08.06.2010 ISSUED TO THE ARCHITECT | D 10.06.2010 ISSUED FOR DA APPROVAL | E 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE AD | F 06.12.2010 ISSUED FOR DA APPROVAL | | |
|--|--|--|----------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|--|-------------------------------------|--|--|
|--|--|--|----------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|--|-------------------------------------|--|--|

STORMWATER DRAINAGE/SEDIMENT CONTROL DETAILS

DRAWN CHECKED SCALE DATUM

J.M.ROMANOUS ,B.E., M.I.E.AUST. AS SHOWN @A1 A.H.D

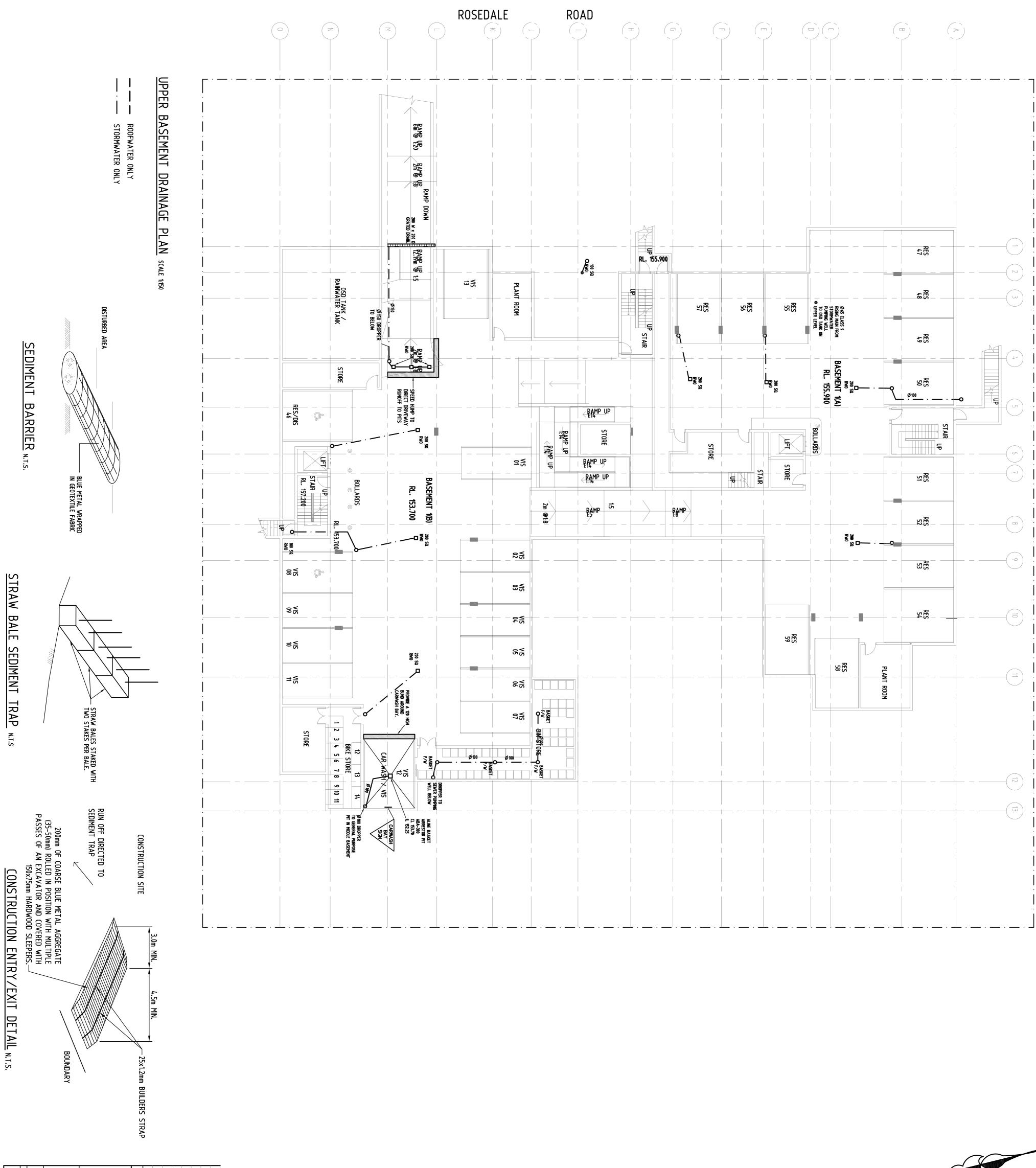
AS SHOWN @A1

1090 -

S2/10

(CONCEPT)

퓨



DISTURBED AREA

200W × 50D GRASS SWALE -

SEDIMENT FENCE DETAIL N.T.S

— GEOTEXTILE FILTER FABRIC

UNDISTURBED AREA

ALL PIPES PENETRATING FROM ONE FIRE COMPARTMENT TO ANOTHER MUST BE FITTED WITH AN APPROVED FIRE COLLAR.

ALL STOREROOMS TO BE TREATED, WATERPROOFED TO BE COMPLETELY DRY

NOTES

1 - Approval to be sought from Sydney Water Trade Waste Section.

2 - A trade Waste Permit must be obtained from Sydney Water.

3 - A Sydney Water Trade Waste inspector is to inspect the work on completion.

NO DEGREASING OR MECHANICAL WORK IN WASH BAY

SIGNAGE TO BE PROVIDED IN CARWASH BAY: AS PER SYDNEY WATER REQUIREMENTS.

CAR WASH ONLY

DIRECTION OF FLOW

STAKES DRIVEN INTO GROUND 400mm min.

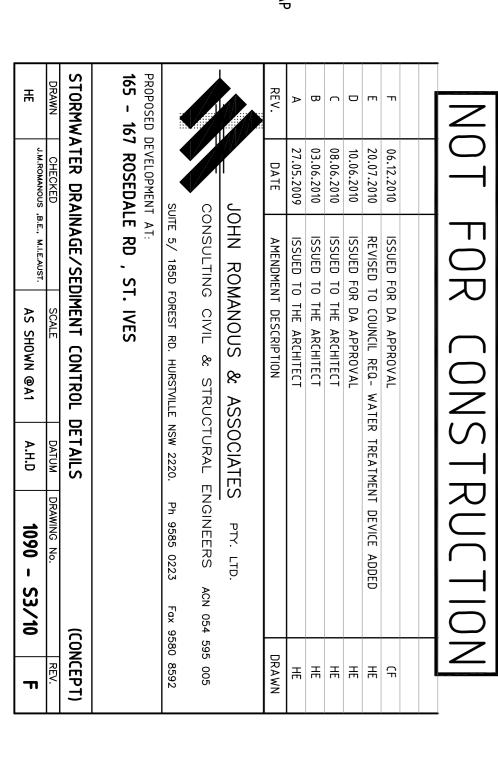
STRAW BALE DROP INLET

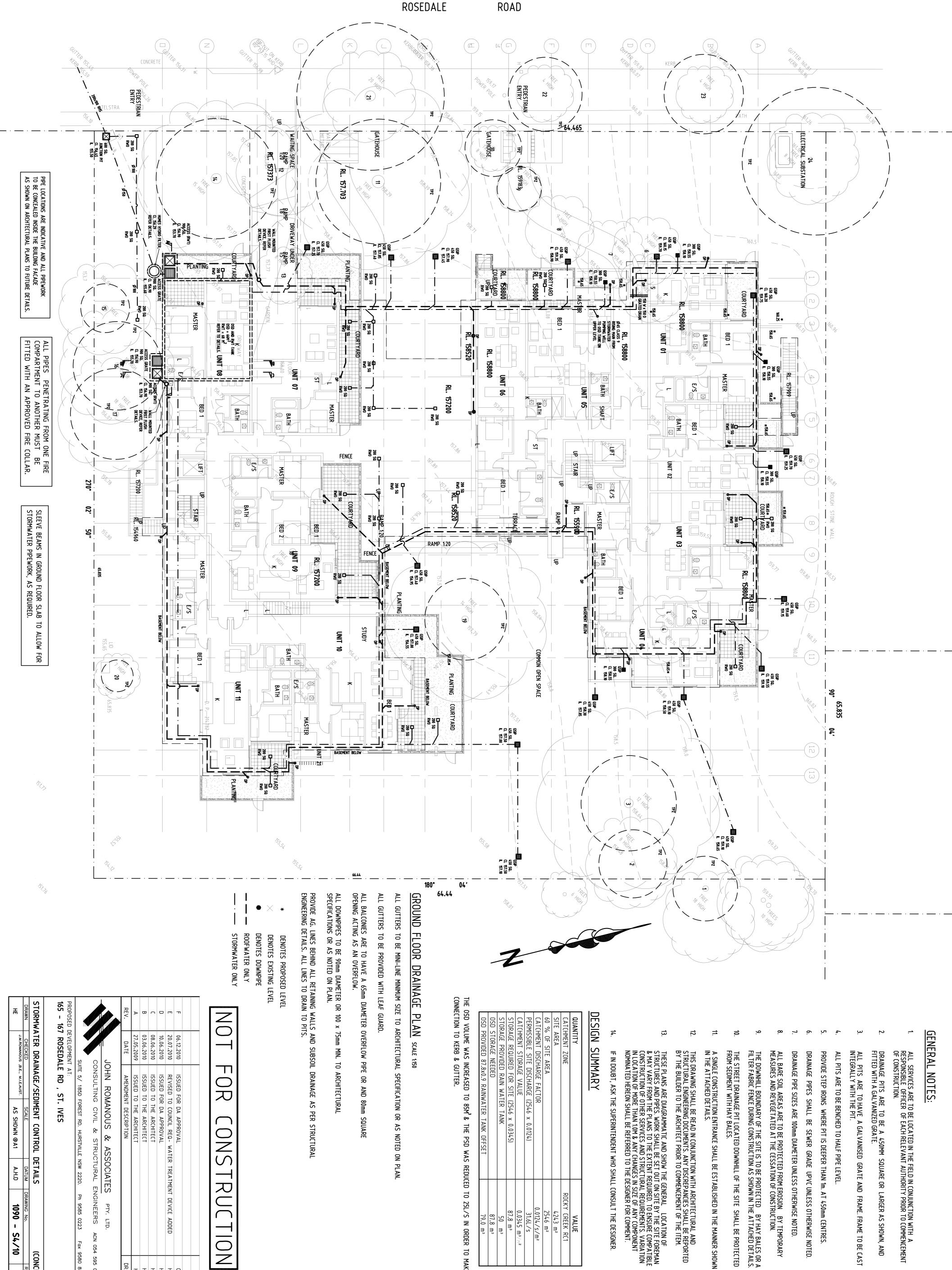
SEDIMENT TRAP

N.T.S.

STRAW BALES STAKED WITH 2 STAKES PER BALE.

-DROP INLET PIT WITH GRATE.





VALUE

(Y CREEK RC1

4243 m²

2546 m²

0.0124/s/m²

31.6L/s

0.0345 m³/p

87.8 m³

50 m³

87.8 m³

79.0 m³

25L/S IN ORDER TO MAKE

ISSUED FOR DA APPROVAL
REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED
ISSUED FOR DA APPROVAL
ISSUED TO THE ARCHITECT
ISSUED TO THE ARCHITECT
ISSUED TO THE ARCHITECT
AMENDMENT DESCRIPTION

用用用用위

ST. IVES

STRUCTURAL

ASSOCIATES PTY. LTD.

LTD.

ACN

054 595

005

AS SHOWN @A1

A.H.D

1090

S4/10

(CONCEPT)

 \Box

0 R

GENERAL NOTES:

- ALL SERVICES ARE TO BE LOCATED IN THE FIELD IN CONJUNCTION WITH A RESPONSIBLE OFFICER OF EACH RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1m. AT 450mm CENTRES
- DRAINAGE PIPES SHALL BE SEWER GRADE UPVC UNLESS OTHERWISE NOTED.

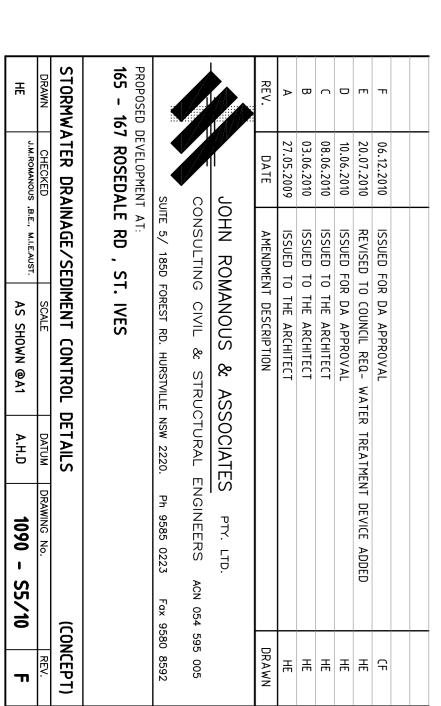
- ALL PITS ARE TO BE BENCHED TO HALF PIPE LEVEL.

- ALL PITS ARE TO HAVE A GALVANISED GRATE AND FRAME FRAME TO BE CAST INTEGRALLY WITH THE PIT.
- DRAINAGE PITS ARE TO BE A 450MM SQUARE OR LARGER AS SHOWN, AND FITTED WITH A GALVANIZED GRATE.

ROSEDALE ROAD (\pm) BATH BED 1 UNIT BATH BATH 7 E/S Q BED 1 BATH B BED 2 Ħ RL. 160200 BATH UNIT 14 MASTER ВАТН •# STUDY SERVERY

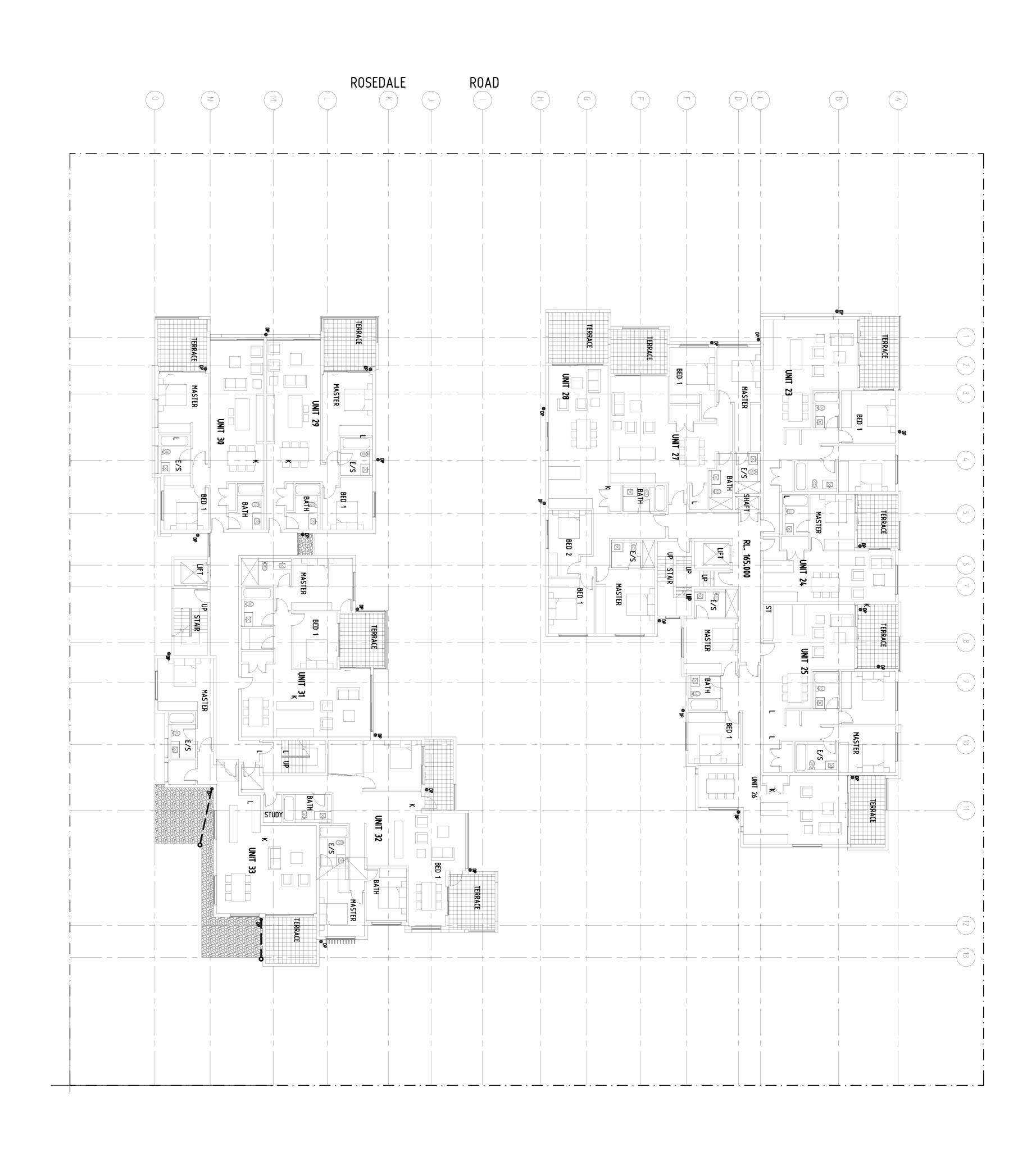
<u>FIRST</u> FLOOR DRAINAGE PLAN SCALE 1:150

ROOFWATER ONLY STORMWATER ONLY



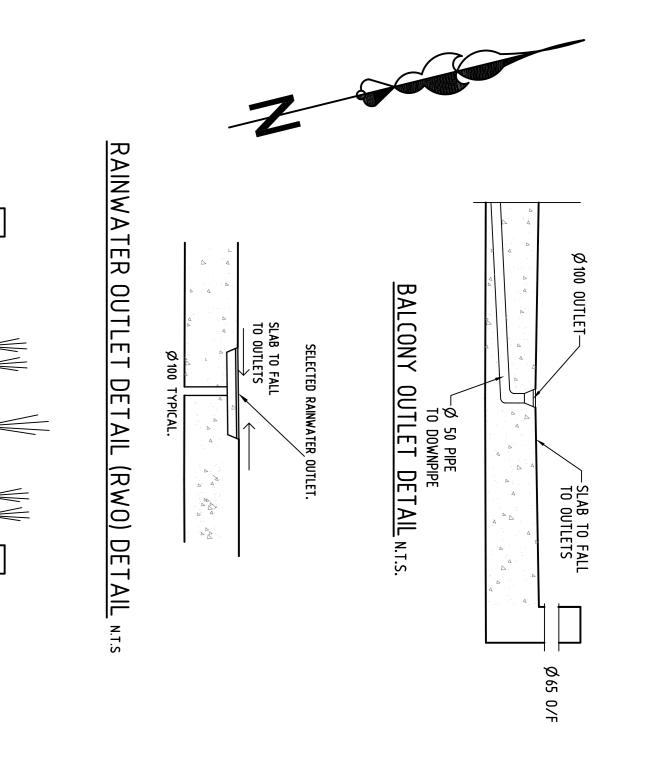
Ø 100 OUTLET-TO DOWNPIPE BALCONY OUTLET DETAIL N.T.S. SELECTED RAINWATER OUTLET. -SLAB TO FALL TO OUTLETS Ø65 0/F

| ENGINEERS ACN 054 595 005 Ph 9585 0223 Fax 9580 8592 | N ROMANOUS & ASSOCIATE SULTING CIVIL & STRUCTURAL 5/ 1850 FOREST RD. HURSTVILLE NSW 2220. | JOHI CONS | |
|---|---|--------------------------|------|
| DRAWN | ISSUED TO THE ARCHITECT AMENDMENT DESCRIPTION | 27.05.2009 DATE | REV. |
| ### | ISSUED TO THE ARCHITECT | 08.06.2010 03.06.2010 | В |
| DEVICE ADDED | REVISED TO COUNCIL REQ- WATER TREATMENT ISSUED FOR DA APPROVAL | 20.07.2010 | D m |
| CF | ISSUED FOR DA APPROVAL | 06.12.2010 | T |
| [RUCTION] | OR CONSTR | | Z |
| PROVIDED MENTS. | SOUND INSULATION ON PIPES TO BE PROVIDED TO COMPLY WITH THE BCA REQUIREMENTS. | | |
| FIRE BE OLLAR. | ALL PIPES PENETRATING FROM ONE FIRE COMPARTMENT TO ANOTHER MUST BE FITTED WITH AN APPROVED FIRE COLLAR. | | |
| ND ALL PIPEWORK DING FACADE NS TO FUTURE DETAILS. | PIPE LOCATIONS ARE INDICATIVE AND ALL PIPEWORK TO BE CONCEALED INSIDE THE BUILDING FACADE AS SHOWN ON ARCHTECTURAL PLANS TO FUTURE DE | | |
| (0) DETAIL NTS | TER OUTLET DETAIL (RWO) DET. | RAINWATER | l-m |
| | Ø 100 TYPICAL. | | |



2ND & 3RD FLOOR DRAINAGE PLAN
ROOFWATER ONLY
STORMWATER ONLY

PIPE LOCATIONS ARE INDICATIVE AND ALL PIPEWORK TO BE CONCEALED INSIDE THE BUILDING FACADE AS SHOWN ON ARCHTECTURAL PLANS TO FUTURE DETAILS.



—150-200mm BLUE METAL
OR DRAINAGE CELLS
GEOTEXTILE FABRIC

-50mm SAND

-WATERPROOF MEMBRANE BY OTHERS

-Ø100 OUTLET

Ø100 AG. LINE IN A FABRIC FILTER SOCK SURROUND WITH 10mm BLUE METAL. ENSURE AG. LINES TO DRAIN TO OUTLETS

150-200mm BLUE METAL OR DRAINAGE CELLS-Ø 100 PIPE TO DOWNPIPE— TYPICAL PLANTER DETAIL N.T.S. TYPICAL PLANTER DETAIL N.T.S. SOUND INSULATION ON PIPES TO BE PROVIDED TO COMPLY WITH THE BCA REQUIREMENTS. GEOTEXTILE FABRIC Ø100 AG. LINE IN A FABRIC FILTER SOCK SURROUND WITH 10mm BLUE METAL. ENSURE AG. LINES TO DRAIN TO OUTLETS 6) -Ø 100 OUTLET WATERPROOF MEMBRANE BY OTHERS 50mm SAND

FOR CONSTRUCTION

| F 06.12.2010 ISSUED FOR DA APPROVAL E 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED D 10.06.2010 ISSUED FOR DA APPROVAL C 08.06.2010 ISSUED TO THE ARCHITECT B 03.06.2010 ISSUED TO THE ARCHITECT A 27.05.2009 ISSUED TO THE ARCHITECT REV. DATE AMENDMENT DESCRIPTION DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 595 005 SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fox 9580 8592 PROPOSED DEVELOPMENT AT: 165 - 167 ROSEDALE RD , ST. IVES STORMWATER DRAINAGE/SEDIMENT CONTROL DETAILS CONCEPT CONCEPT SCALE DRAWING No. REV. | — | 1090 - S6/10 | A.H.D | AS SHOWN @A1 | ,B.E., M.I.E.AUST. | J.M.ROMANOUS ,B.E., M.I.E.AUST. | 픎 |
|--|----------|------------------|-----------|-----------------------|--------------------|---------------------------------|-------------------------------|
| MENT DEVICE ADDED ES PTY. LTD. ENGINEERS ACN 054 | REV. | DRAWING No. | DATUM | SCALE | | CHECKED | DRAWN |
| PROVAL IL REQ WATER TREATMENT DEVICE ADDED PROVAL CHITECT CH | NCEPT | (CO) | DETAILS | DIMENT CONTROL | INAGE/SEC | ATER DRA | STORMW, |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 | | | | T. IVES | LE RD , S | DEVELOPMENT 7 ROSEDAI | PROPOSED 165 - 16 |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ. WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT DATE AMENDMENT DESCRIPTION JOHN ROMANOUS & ASSOCIATES PTY. LTD. CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 59 | 8592 | 0223 | NSW 2220. | FOREST RD. HURSTVILLE | ЛТЕ 5/ 185D | SL | |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT AMENDMENT DESCRIPTION JOHN ROMANOUS & ASSOCIATES PTY. LTD. | 5 005 | ACN | CTURAL E | S CIVIL & STRU | ONSULTING | 0 | |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT 27.05.2009 ISSUED TO THE ARCHITECT AMENDMENT DESCRIPTION | | • | SOCIATE | MANOUS & AS | OHN RO | ال | |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT 03.06.2010 ISSUED TO THE ARCHITECT | DRAWN | | | NT DESCRIPTION | AMENDME | DATE | REV. |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | ਜ | | | O THE ARCHITECT | ISSUED T | 27.05.2009 | Þ |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL 08.06.2010 ISSUED TO THE ARCHITECT | 盂 | | | O THE ARCHITECT | ISSUED TO | 03.06.2010 | В |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED 10.06.2010 ISSUED FOR DA APPROVAL | 盂 | | | O THE ARCHITECT | ISSUED TO | 08.06.2010 | <u> </u> |
| 06.12.2010 ISSUED FOR DA APPROVAL 20.07.2010 REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED | 弄 | | | OR DA APPROVAL | ISSUED FO | 10.06.2010 | 0 |
| 06.12.2010 ISSUED FOR DA APPROVAL | 弄 | ENT DEVICE ADDED | | TO COUNCIL REQ- WAT | REVISED . | 20.07.2010 | т |
| | 유 | | | | ISSUED FO | 06.12.2010 | 711 |
| | | | | | | | |
| | | | | | | | |

ROAD ROSEDALE (Z)(I) (\exists) $(\Box)(\cap)$ (W) BED 1 _ MASTER Ct TINU YOUTS MASTER BAT UNIT 47 UNIT 49 BED 2 BAT MASTER SERVER BED 1 S/S RL. 171200 ਙ→ \$ 1 V TINU TERRACE STAIR $-\left(\infty\right)$ STUDY M AS

150-200mm BLUE METAL OR DRAINAGE CELLS

WATERPROOF MEMBRANE BY OTHERS TYPICAL PLANTER DETAIL N.T.S.

—150-200mm BLUE METAL
OR DRAINAGE CELLS
GEOTEXTILE FABRIC

-WATERPROOF MEMBRANE BY OTHERS

-50mm SAND

-Ø 100 OUTLET

Ø100 AG. LINE IN A FABRIC FILTER SOCK SURROUND WITH 10mm BLUE METAL. ENSURE AG. LINES TO DRAIN TO OUTLETS

Ø 100 PIPE TO DOWNPIPE—

0,

−Ø 100 OUTLET

Ø100 AG. LINE IN A FABRIC FILTER SOCK SURROUND WITH 10mm BLUE METAL. ENSURE AG. LINES TO DRAIN TO OUTLETS GEOTEXTILE FABRIC

50mm SAND

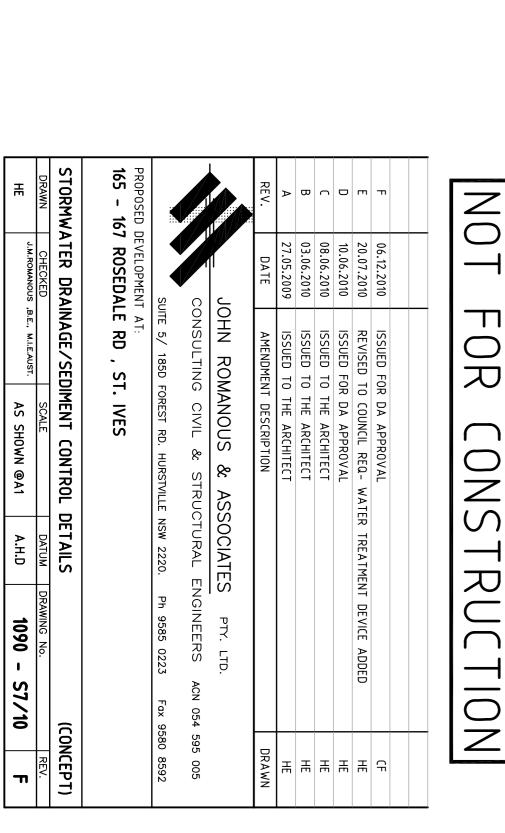
TYPICAL PLANTER DETAIL N.T.S.

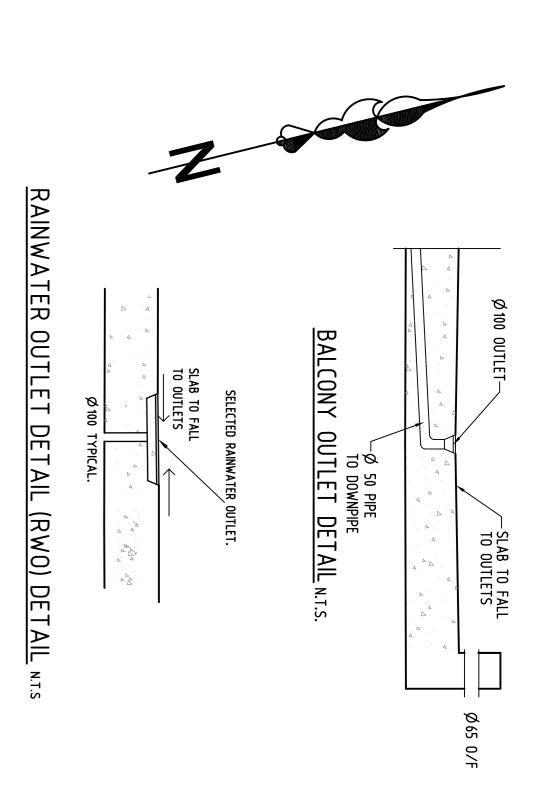
SOUND INSULATION ON PIPES TO BE PROVIDED TO COMPLY WITH THE BCA REQUIREMENTS.

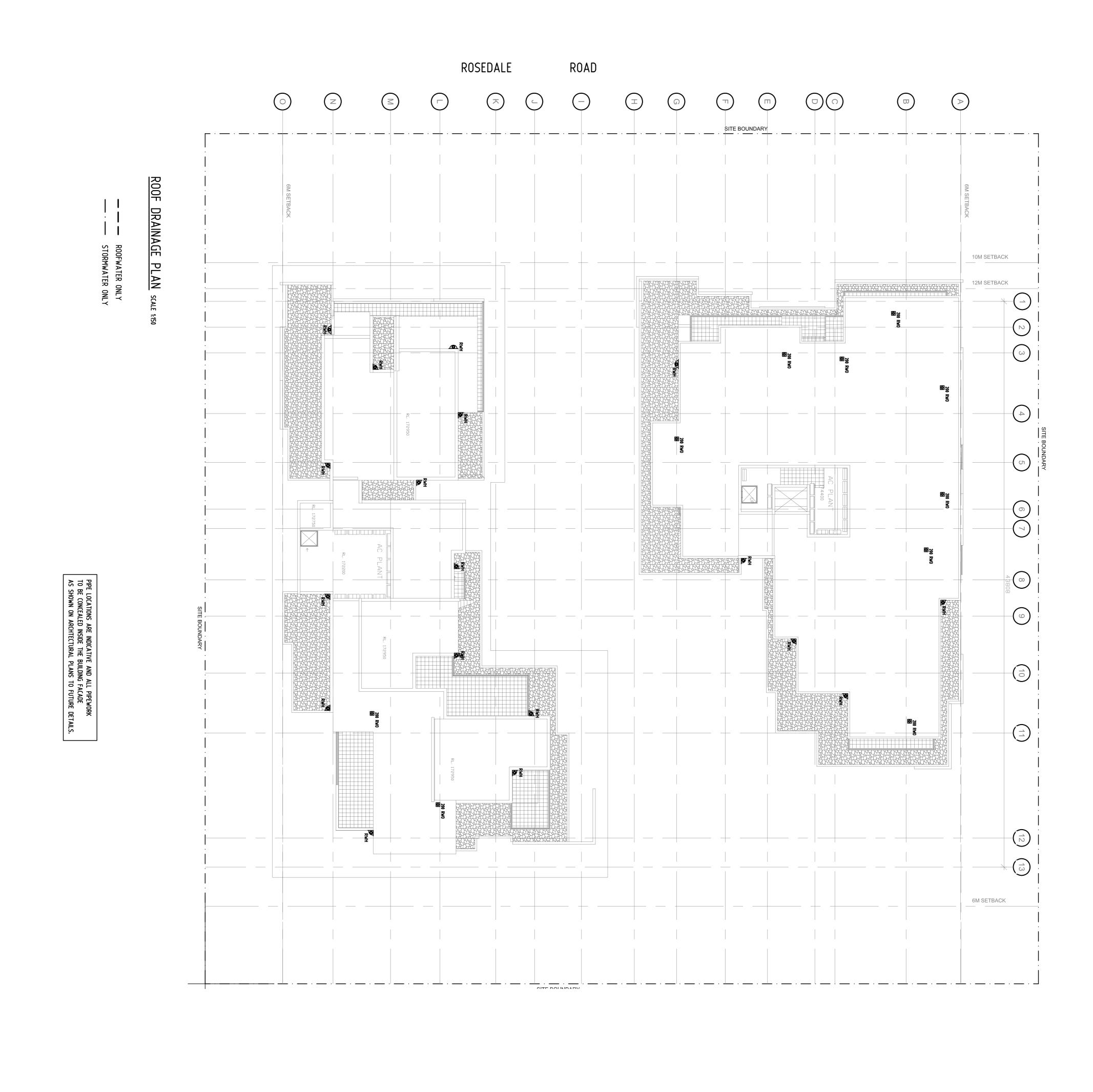
4TH FLOOR DRAINAGE PLAN SCALE 1:150

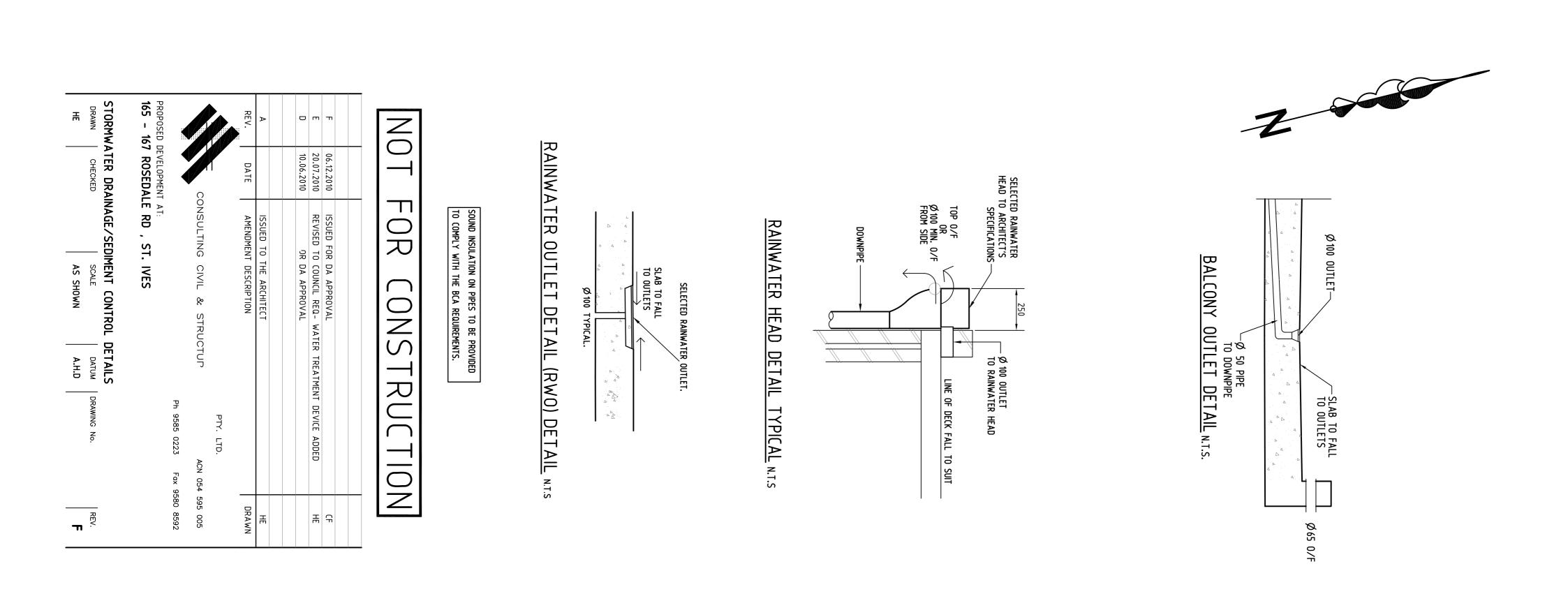
----- ROOFWATER ONLY
----- STORMWATER ONLY

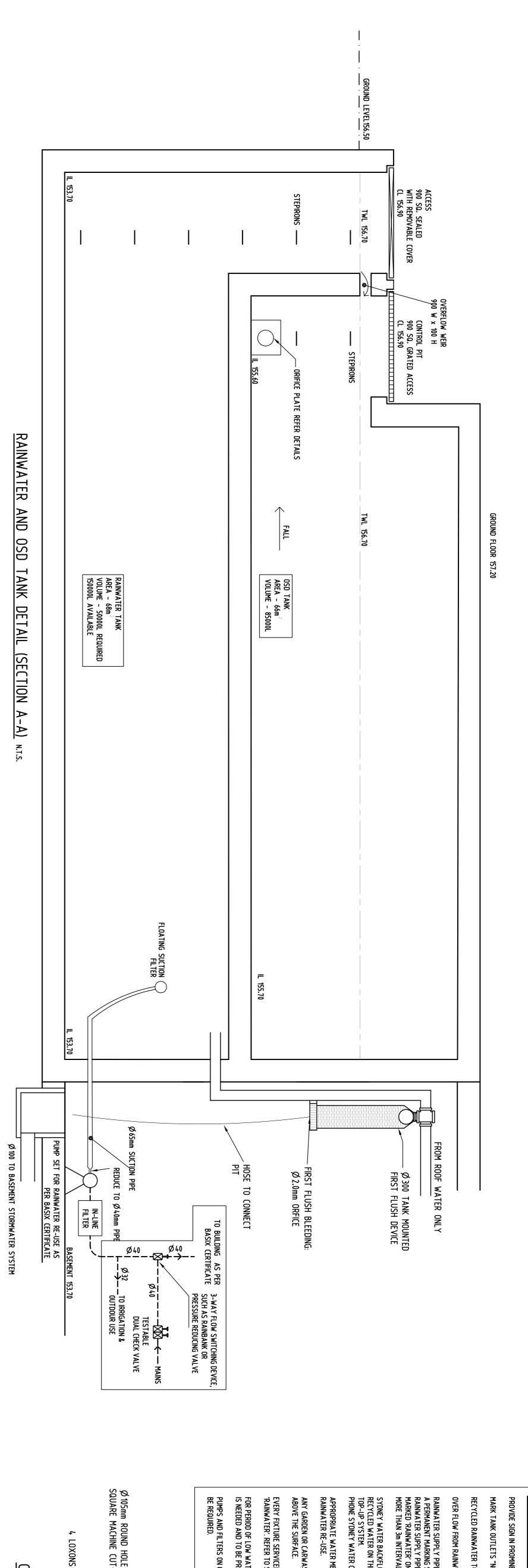
PIPE LOCATIONS ARE INDICATIVE AND ALL PIPEWORK
TO BE CONCEALED INSIDE THE BUILDING FACADE
AS SHOWN ON ARCHTECTURAL PLANS TO FUTURE DETAILS.











PUMPS AND FILTERS ON OUTLETS FROM RECYCLED SYSTEM TO BE SUPPLIED BY OTHERS AS MAY BE REQUIRED.

4 LOXONS-

ORIFICE PLATE DETAIL N.T.S.

3mm THICK PLATE

250

FOR PERIOD OF LOW WATER LEVEL IN THE RAIN WATER TANK A CONNECTION TO THE WATER MAIN IS NEEDED AND TO BE PROVIDED IN ACCORDANCE WITH THE SYDNEY WATER REQUIREMENTS.

EVERY FIXTURE SERVICED FROM THE RECYCLED WATER SUPPLY MUST BE CLEARLY LABELLED 'RAINWATER'. REFER TO SIGNAGE.

ANY GARDEN OR CARWASH TAPS CONNECTED TO RECYCLED SYSTEM MUST BE LOCATED 1.5m MIN. ABOVE THE SURFACE.

APPROPRIATE WATER METER MUST BE OBTAINED FROM SYDNEY WATER TAKING INTO ACCOUNT RAINWATER RE-USE.

SYDNEY WATER BACKFLOW PREVENTION DEPARTMENT MUST BE CONTACTED REGARDING RECYCLED WATER ON THIS BUILDING AND FOR THE BACKFLOW PREVENTION REQUIREMENTS AND TOP-UP SYSTEM. PHONE SYDNEY WATER ON 132 092

RAINWATER RE-USE NOTES

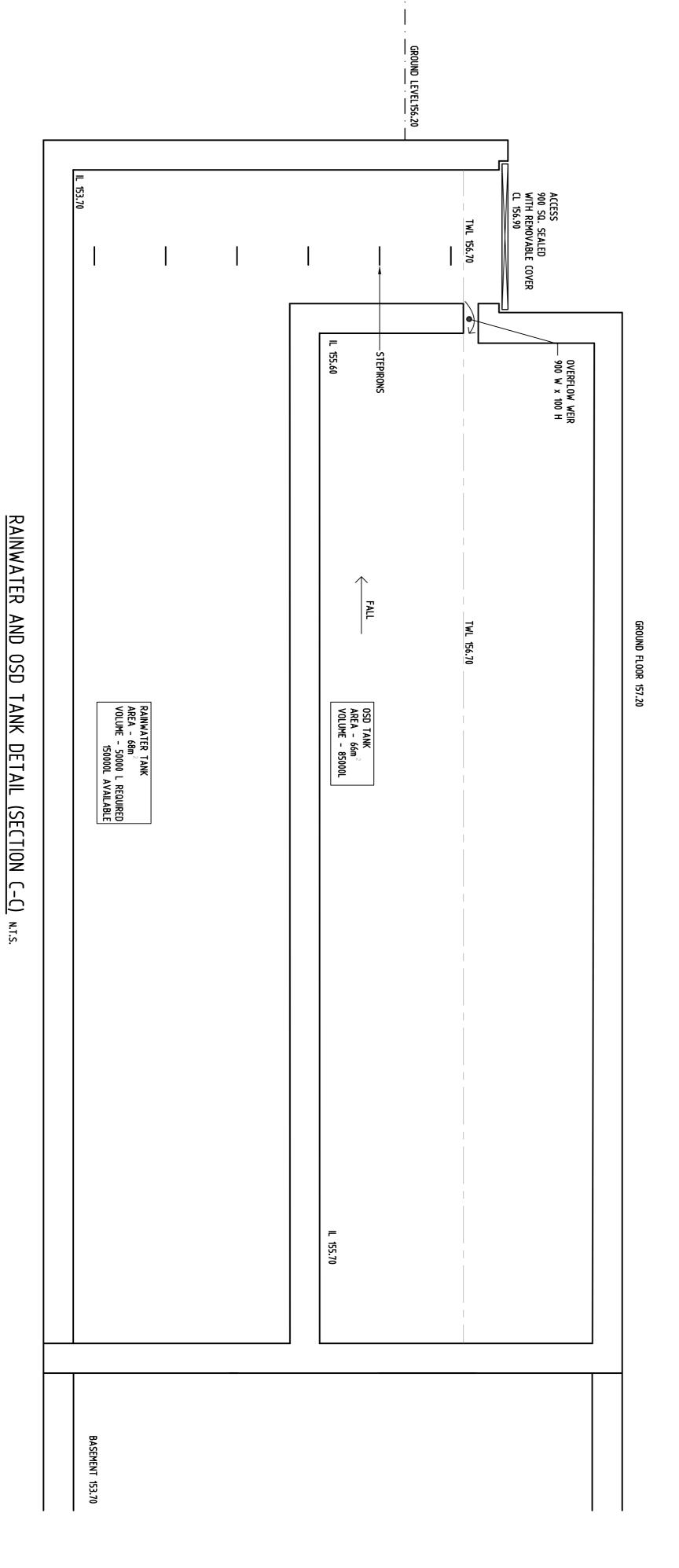
PROVIDE SIGN IN PROMINENT LOCATION AT FRONT OF PROPERTY NOTING "RAINWATER IN USE".

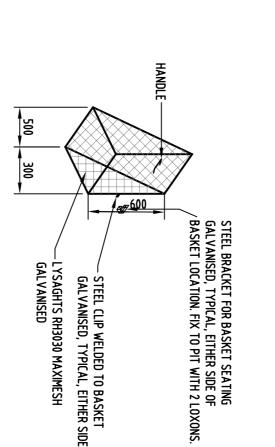
RAINWATER SUPPLY PIPE WORK ABOVE GROUND MUST BE LABELLED ALONG THEIR LENGTH WITH A PERMANENT MARKING STATING 'RAINWATER' EVERY 500mm OR LESS. BELOW GROUND RAINWATER SUPPLY PIPE WORK MUST HAVE IDENTIFICATION TAPE AT LEAST 75mm WIDE AND MARKED 'RAINWATER' ON THE RAINWATER SUPPLY PIPE AND FASTENED TO THE PIPE AT NOT MORE THAN 3m INTERVALS.

OVER FLOW FROM RAINWATER TANK TO BE CONNECTED TO STORMWATER SYSTEM.

RECYCLED RAINWATER TO SERVICE ALL BUILDING TOILET CISTERNS.

MARK TANK OUTLETS "NON-POTABLE WATER"





SCREEN DETAIL N.T.S

$\neg \neg$ 9 R

| 1 | | | REV. | Α | В | 0 | D | ш | п | |
|---|---|--------------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|--|------------------------|--|
| St. | C | ال | DATE | 27.05.2009 | 03.06.2010 | 08.06.2010 | 10.06.2010 | 20.07.2010 | 06.12.2010 | |
| SUITE $5/$ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 95 | CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 | JOHN ROMANOUS & ASSOCIATES PTY. LTD. | AMENDMENT DESCRIPTION | ISSUED TO THE ARCHITECT | ISSUED TO THE ARCHITECT | ISSUED TO THE ARCHITECT | ISSUED FOR DA APPROVAL | REVISED TO COUNCIL REQ- WATER TREATMENT DEVICE ADDED | ISSUED FOR DA APPROVAL | |
| 9580 8592 | 595 005 | | DRAWN | HH | 퓨 | 퓨 | 퓨 | HE | 유 | |
| | | | | | | | | | | |

STORMWATER DRAINAGE/SEDIMENT CONTROL DETAILS

DRAWN CHECKED SCALE DATUM

DRAWN CHECKED SCALE

AS SHOWN @A1

A.H.D

1090 -

S9/10

(CONCEPT)

Ħ

PROPOSED DEVELOPMENT AT:

165 - 167 ROSEDALE RD , ST. IVES