RESIDENTIAL DEVELOPMENT

CONCEPT EROSION & SEDIMENT CONTROL AND STORMWATER MANAGEMENT PLANS
2 - 8 GILROY ROAD, TURRAMARRA



LOCALITY SKETCH NOT TO SCALE

DRAWING SCHEDULE		NG SCHEDULE
	DA1.01	COVER SHEET, LOCALITY SKETCH AND DRAWING SCHEDULE DA2.01
	DA2.01	CONCEPT SEDIMENT & EROSION CONTROL PLAN
	DA3.01	CONCEPT STORMWATER MANAGEMENT PLAN - GROUND FLOOR
	DA3.02	CONCEPT STORMWATER MANAGEMENT PLAN - UNDERSIDE OF GROUND FLOOR SLAB
	DA3.03	CONCEPT STORMWATER MANAGEMENT PLAN - BASEMENT LEVEL 1
	DA3.04	CONCEPT STORMWATER MANAGEMENT PLAN - BASEMENT LEVEL 2
	DA3.11	ON SITE DETENTION FACILITY - DETAILED SECTIONS
	DA4.01	STORMWATER DETAILS - SHEET 1
	DA4.02	STORMWATER DETAILS - SHEET 2



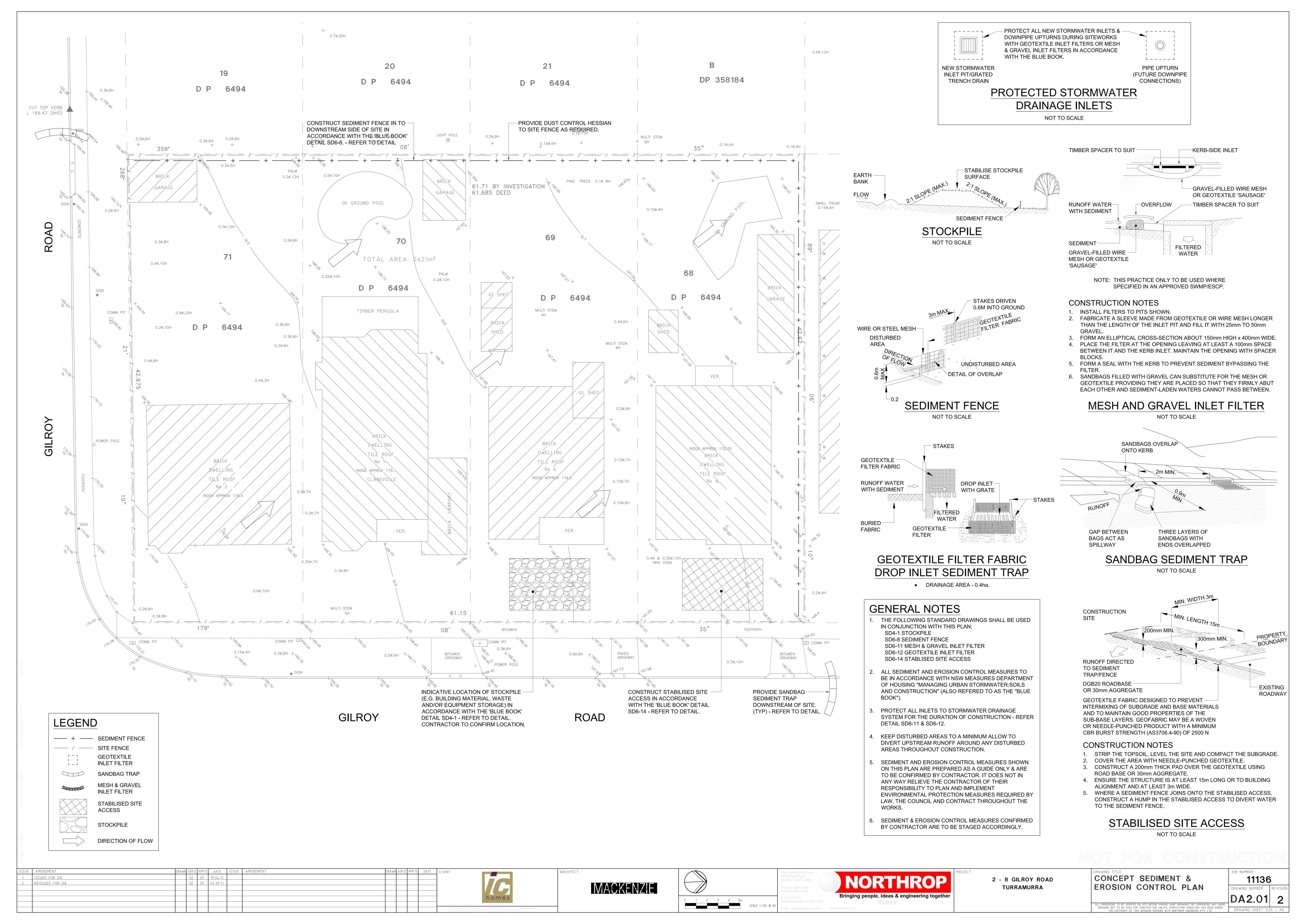


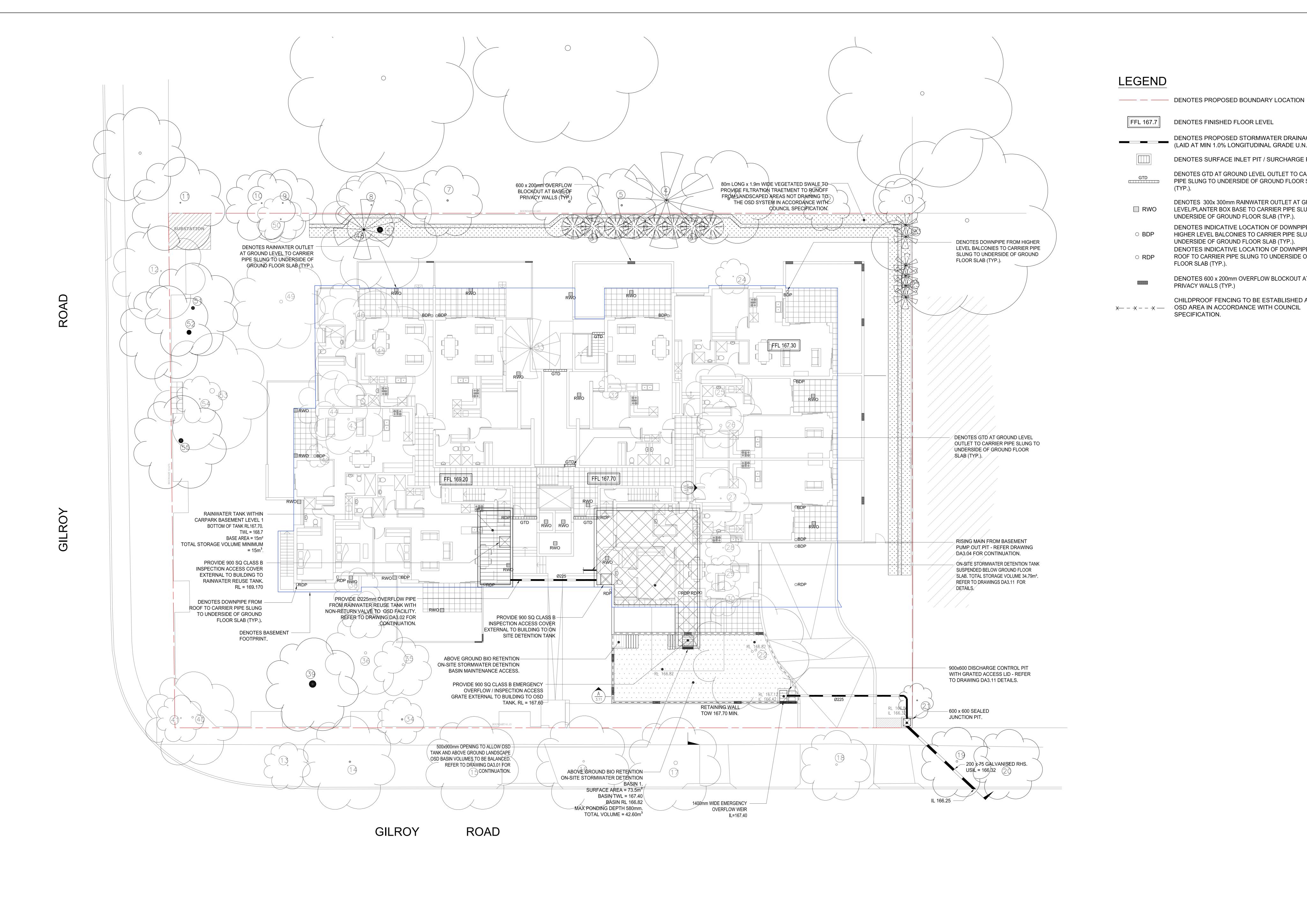
ISSUED FOR DA

REISSUED FOR DA









DENOTES FINISHED FLOOR LEVEL

DENOTES PROPOSED STORMWATER DRAINAGE PIPE

(LAID AT MIN 1.0% LONGITUDINAL GRADE U.N.O).

DENOTES SURFACE INLET PIT / SURCHARGE PIT

DENOTES GTD AT GROUND LEVEL OUTLET TO CARRIER PIPE SLUNG TO UNDERSIDE OF GROUND FLOOR SLAB

DENOTES 300x 300mm RAINWATER OUTLET AT GROUND LEVEL/PLANTER BOX BASE TO CARRIER PIPE SLUNG TO

DENOTES INDICATIVE LOCATION OF DOWNPIPES FROM HIGHER LEVEL BALCONIES TO CARRIER PIPE SLUNG TO

DENOTES INDICATIVE LOCATION OF DOWNPIPES FROM

ROOF TO CARRIER PIPE SLUNG TO UNDERSIDE OF GROUND

DENOTES 600 x 200mm OVERFLOW BLOCKOUT AT BASE OF

CHILDPROOF FENCING TO BE ESTABLISHED AROUND

UNDERSIDE OF GROUND FLOOR SLAB (TYP.).

UNDERSIDE OF GROUND FLOOR SLAB (TYP.).

FLOOR SLAB (TYP.).

SPECIFICATION.

PRIVACY WALLS (TYP.)

AMENDMENT

ISSUED FOR DA

REISSUED FOR DA

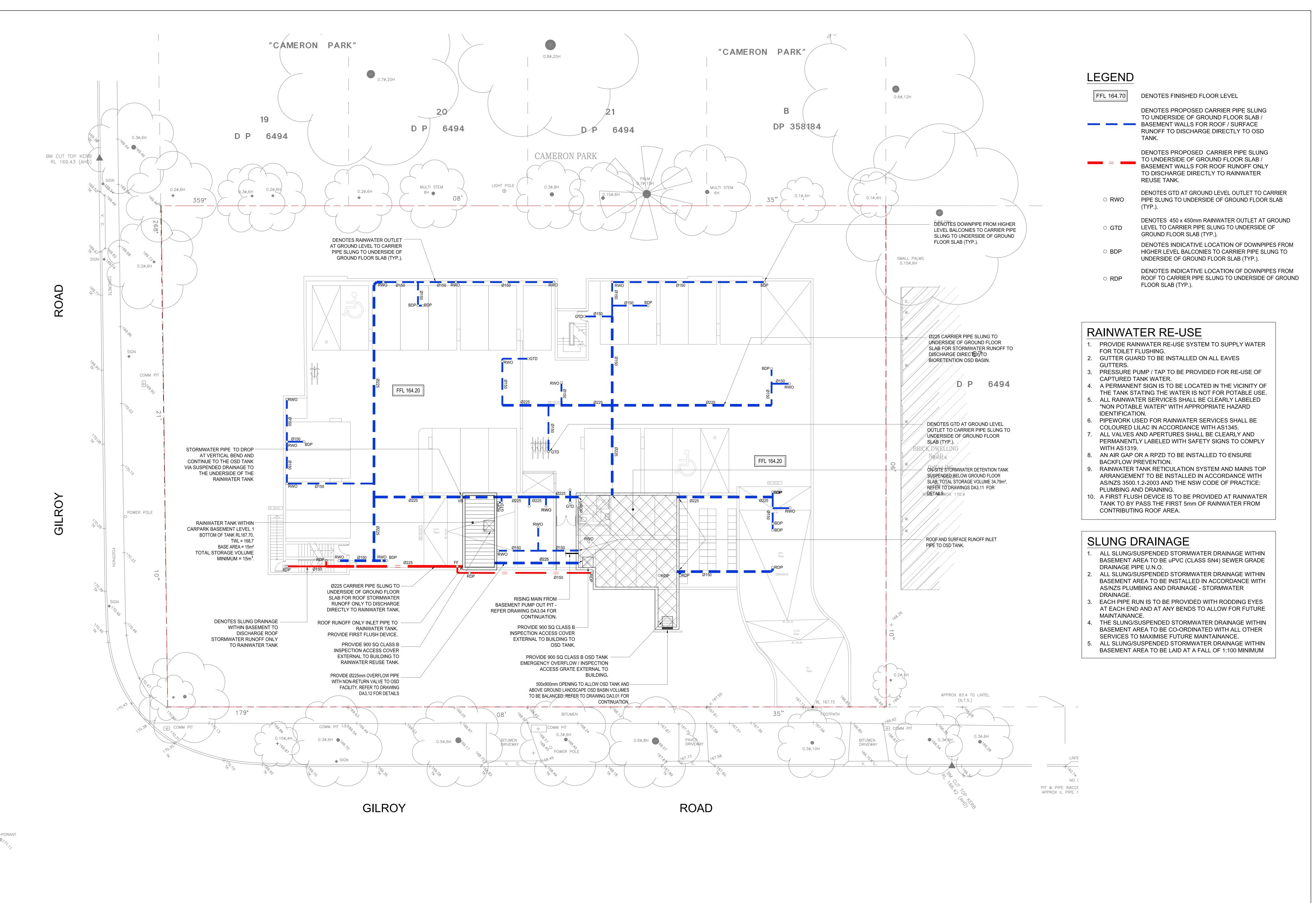
ISSUED FOR COORDINATION







JOB NUMBER

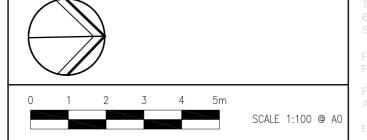


AMENDMENT

ISSUED FOR DA

REISSUED FOR DA



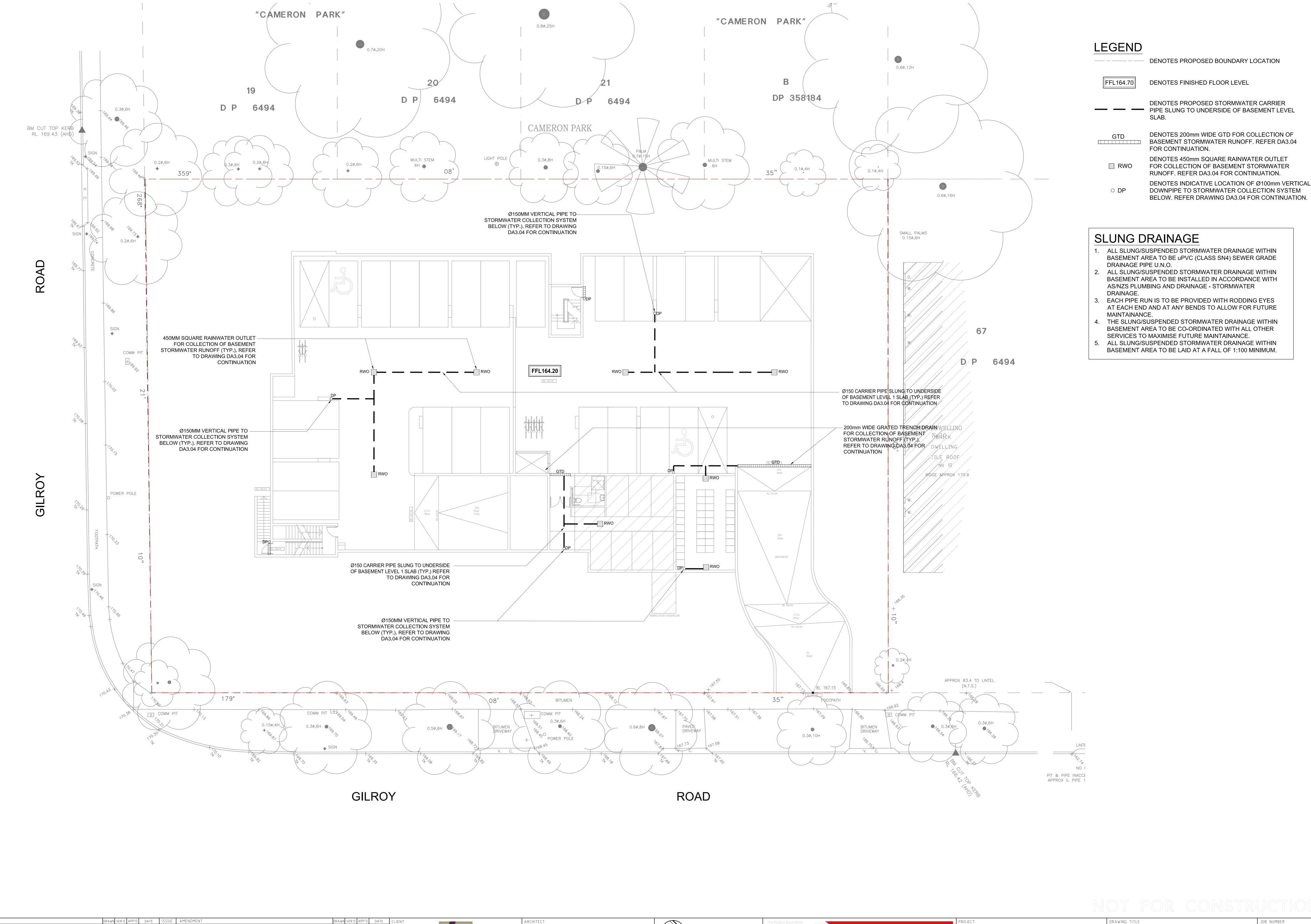




2 - 8 GILROY ROAD **TURRAMURRA**

CONCEPT STORMWATER MANAGEMENT PLAN

11136



MACKENZIE

AMENDMENT

ISSUED FOR DA

REISSUED FOR DA

CONCEPT STORMWATER

MANAGEMENT PLAN

- BASEMENT LEVEL 1

2 - 8 GILROY ROAD
TURRAMURRA

CONCEPT STO
MANAGEMENT
- BASEMENT LE

Bringing people, ideas & engineering togethe

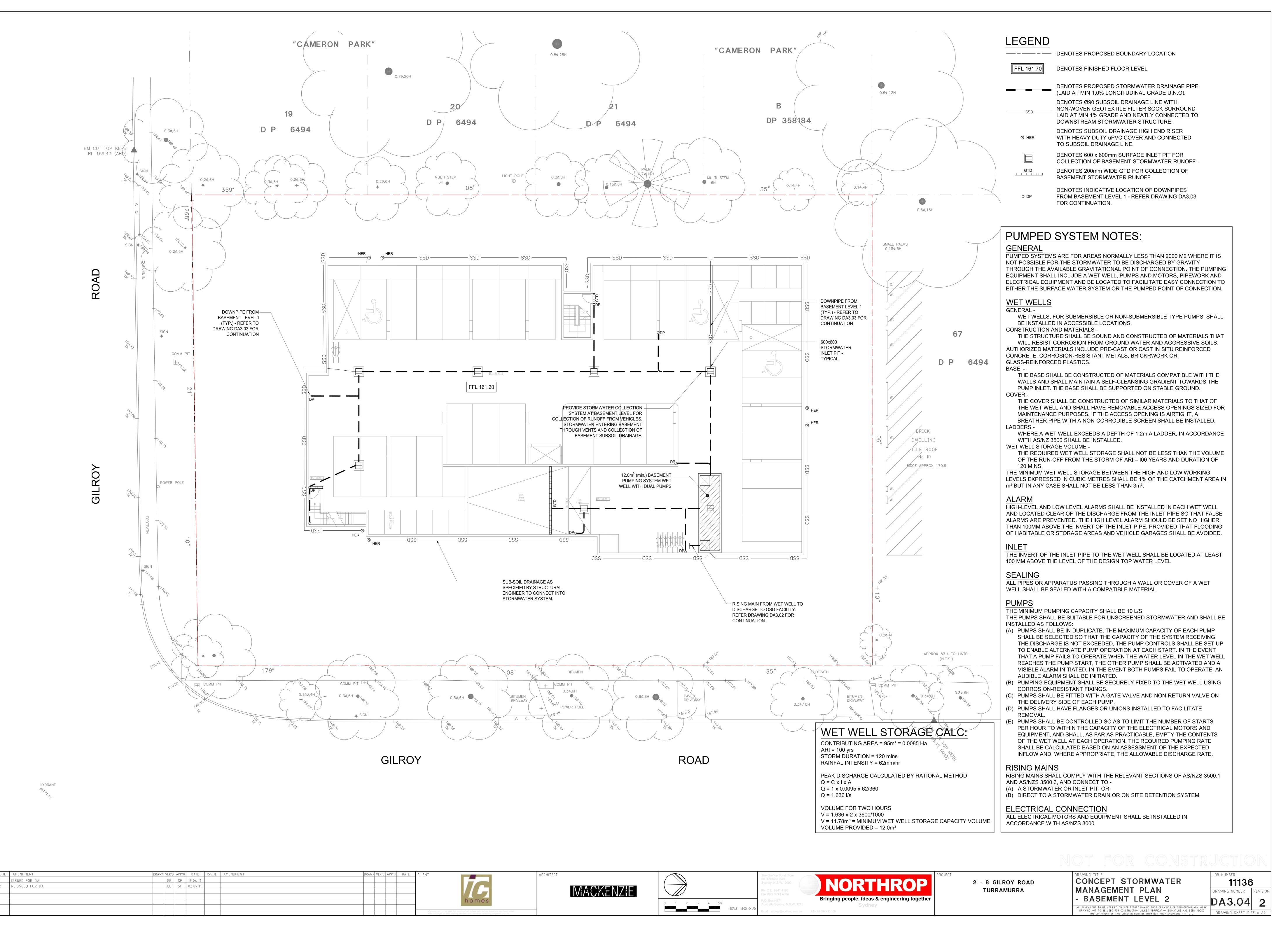
- BASEMENT LEVEL 1

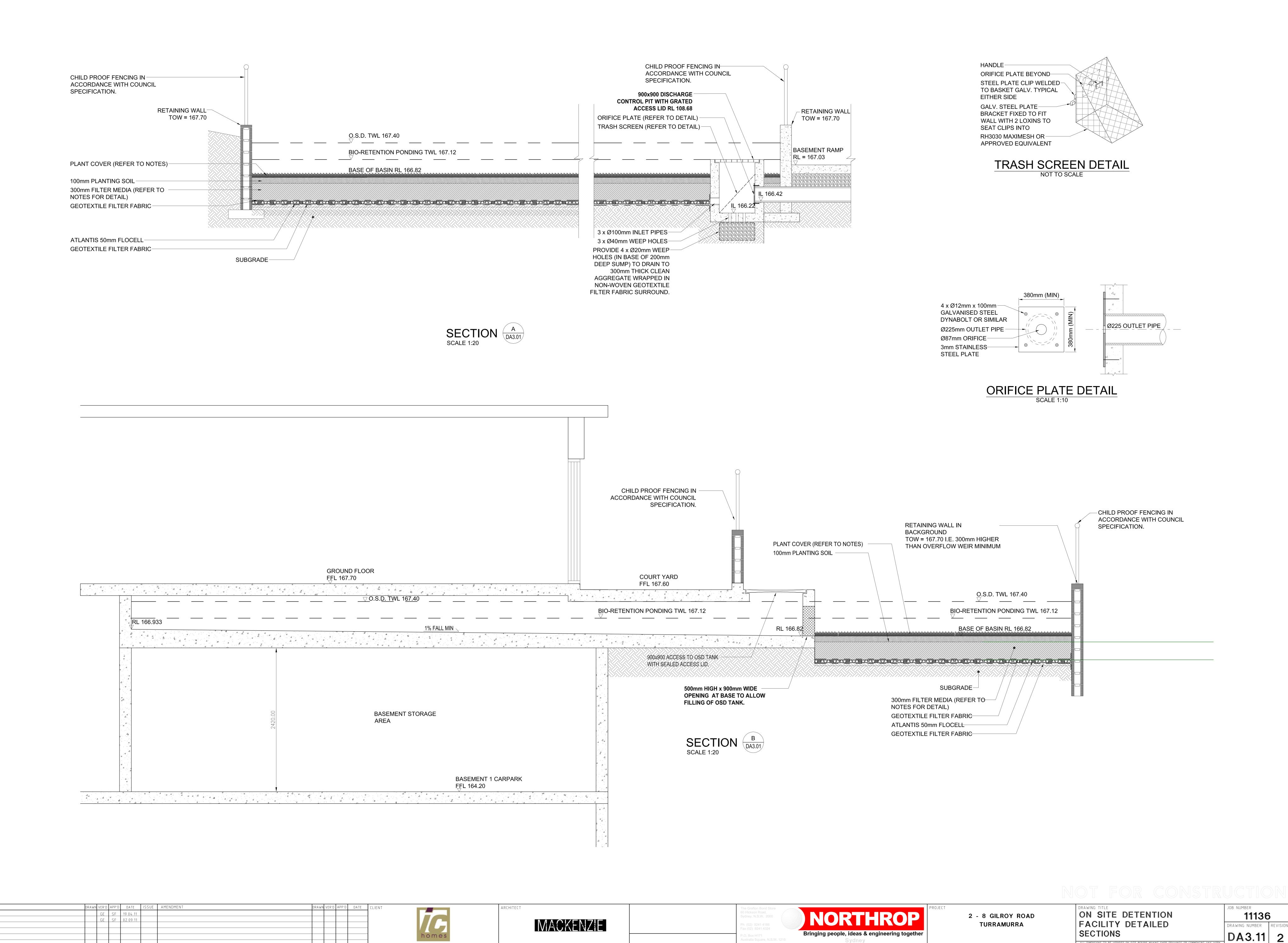
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING ANY WORK.

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP ENGINEERS PTY. LTD.

11136

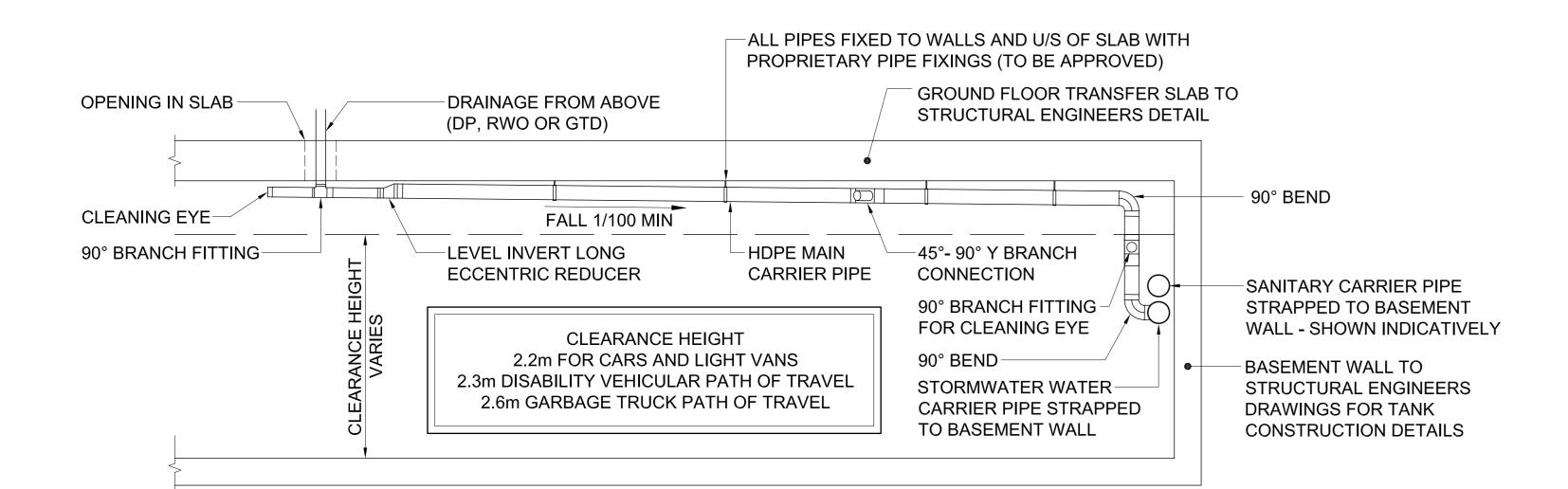




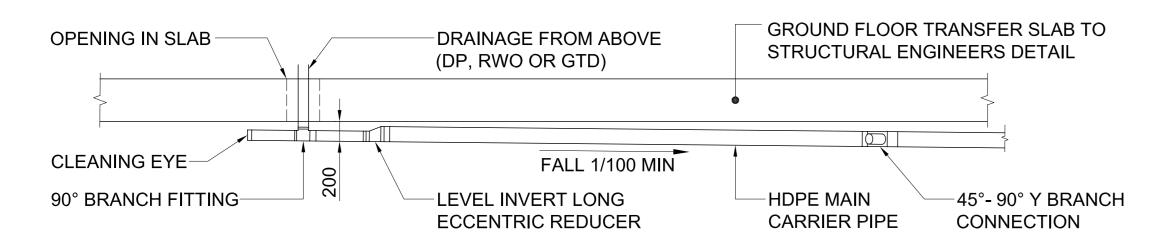
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING ANY WORK DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP ENGINEERS PTY. LTD.

AMENDMENT

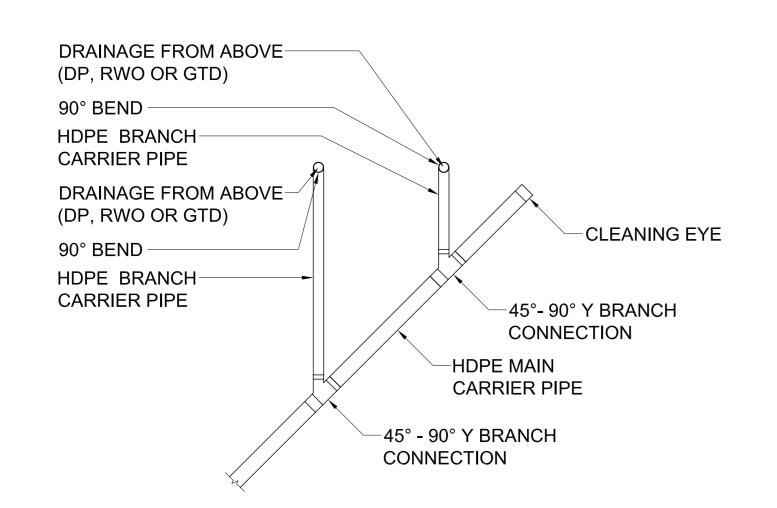
ISSUED FOR DA
REISSUED FOR DA



TYPICAL SECTION THROUGH BASEMENT SLUNG DRAINAGE SCALE 1:40

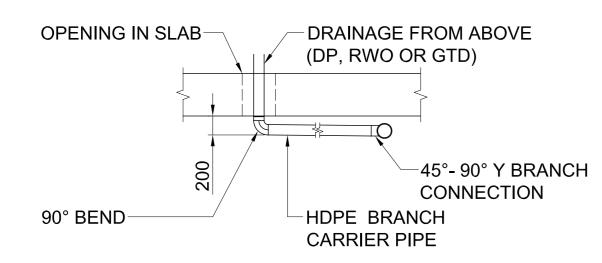


BASEMENT SLUNG DRAINAGE PIPE DETAILS TYPICAL DETAIL A SCALE 1:40



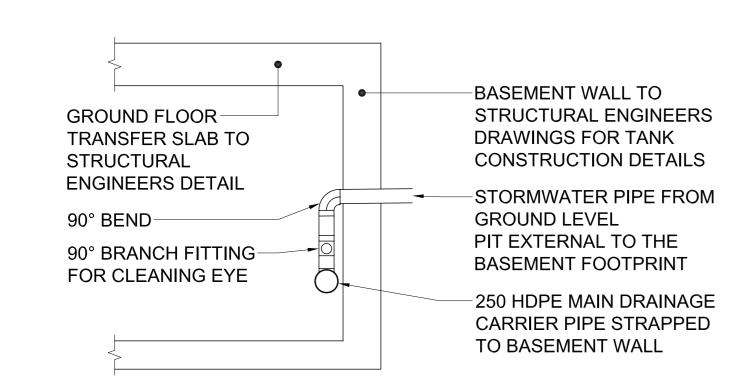
BASEMENT SLUNG DRAINAGE PIPE DETAILS TYPICAL DETAIL C

SCALE 1:40



BASEMENT SLUNG DRAINAGE PIPE DETAILS TYPICAL DETAIL B

SCALE 1:40



BASEMENT SLUNG DRAINAGE PIPE DETAILS

TYPICAL DETAIL D

SCALE 1:40

AMENDMENT

<u>ISSUED FOR DA</u>

REISSUED FOR DA

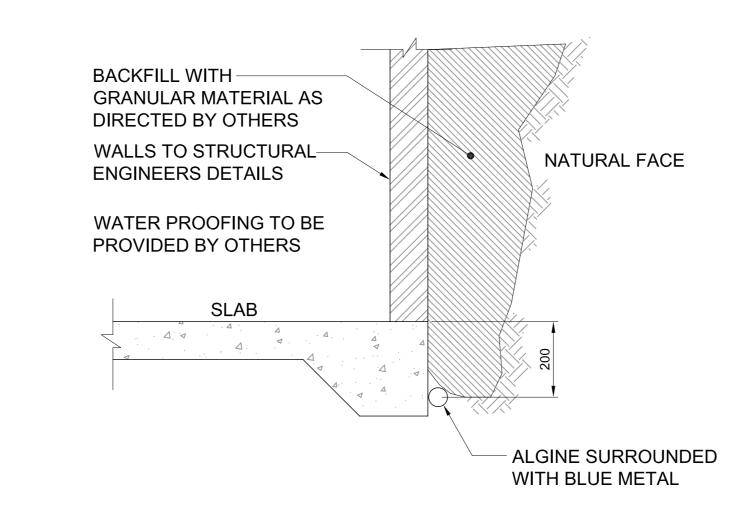
250 MIN. DANGER CONFINED SPACE ENTRY BY PERMIT ONLY

COLOURS: 'DANGER' AND BACKGROUND **ELLIPTICAL AREA** RECTANGLE CONTAINING ELIPSE

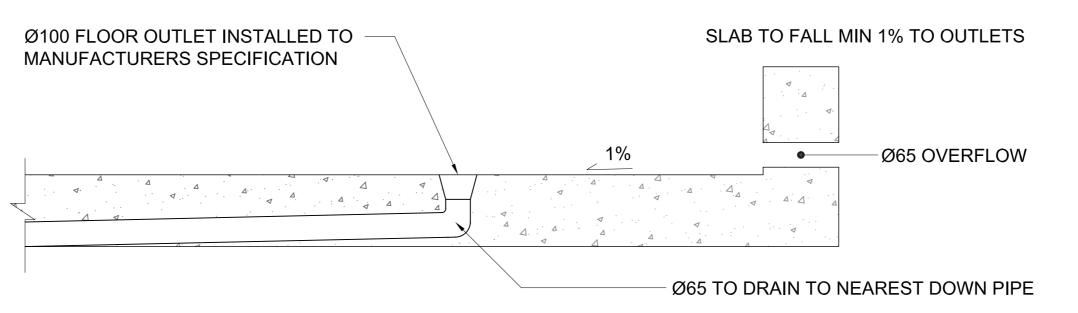
WHITE BLACK OTHER LETTERING AND BORDER BLACK

CONFINED SPACE WARNING NOT TO SCALE

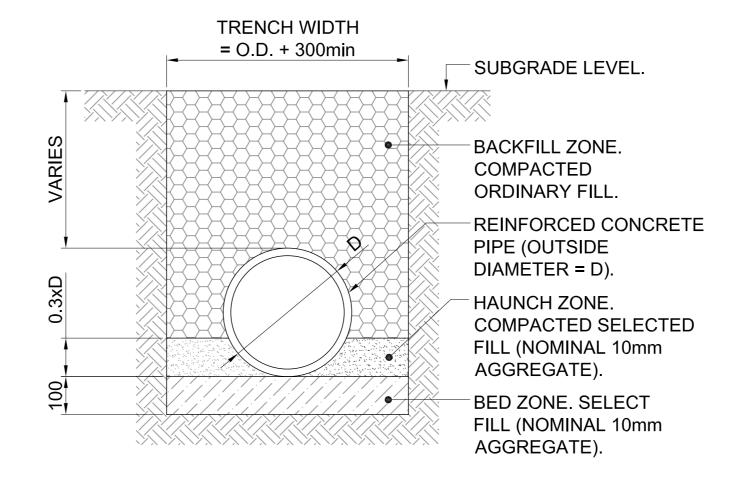
- 1. A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.
- MINIMUM DIMENSIONS OF THE SIGN
- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOOR) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES MANHOLES)
- 3. THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINIUM OR POLYPROPYLENE.
- 4. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE



TYPICAL BASEMENT WALL DRAINAGE DETAIL WITH SPACE BEHIND THE WALL NOT TO SCALE



BALCONY OUTLET DETAIL SCALE 1:10



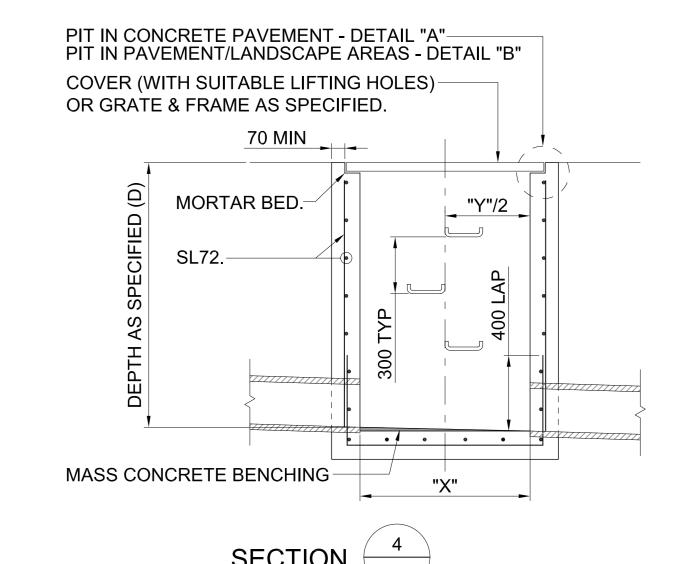
TYPICAL PIPE TRENCH **GENERAL AREAS**

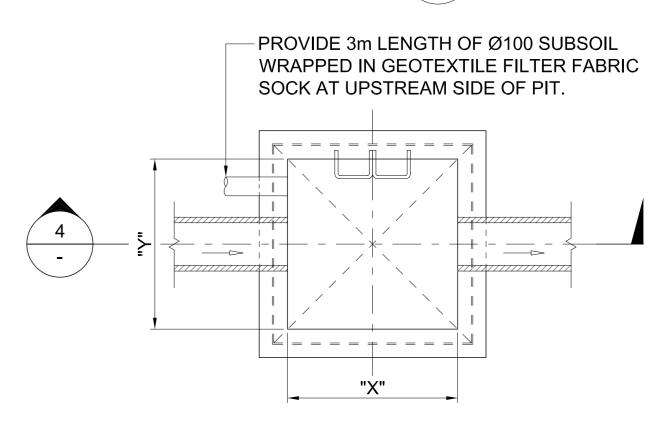
NOT TO SCALE

TRENCH WIDTH MAY NEED TO BE INCREASED SUBJECT TO ACHIEVING ADEQUATE COMPACTION. MINIMUM PIPE COVER NOT UNDER ROADS = 300mm UNO. THE CONTRACTOR SHALL ENSURE THAT THE SHOREING OF TRENCHES IS INSTALLED AS REQUIRED BY STATUTORY REQUIREMENTS. ENSURE BACKFILLING OF TRENCHES NOT UNDER PAVEMENTS IS COMPACTED TO 90% SMDD.

400 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 NOT TO SCALE

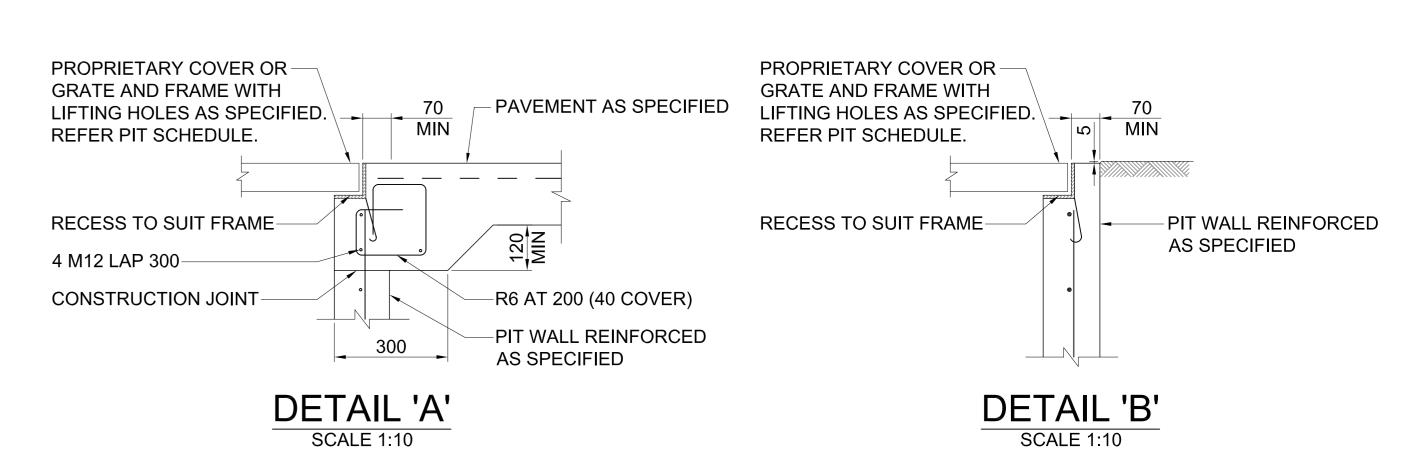




PLAN PIT STRUCTURE TO BE 150 THICK **UNLESS NOTED OTHERWISE**

SURFACE INLET / JUNCTION PIT

- PIT STRUCTURE TO BE 150 THICK UNLESS NOTED OTHERWISE.
- PROVIDE STEP IRONS IF PIT DEEPER THAN 900mm IN ACCORDANCE WITH AUSTRALIAN STANDARDS. - INTERNAL DIMENSIONS AS SPECIFIED



NOTES: JUNCTION PITS TYPE A

- 1. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25mPA AT 28 DAYS
- 2. PIT STRUCTURE TO BE 150 THICK UNLESS NOTED OTHERWISE. INTERNAL DIMENSIONS AS SPECIFIED
- 3. TOP OF BENCHING TO BE $\frac{1}{3}$ OF OUTLET PIPE DIAMETER 4. PROVIDE 3m LENGTH OF 100mmØ SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK ADJACENT TO TO INLET PIPE
- INVERT AND DRAINING TO PIT ALL COVERS AND GRATES TO BE HOP DIPPED GALVANISED
- 6. FOR GRATES PROVIDE WELDLOCK HOP DIPPED HINGED PIT
- GRATES HPG6060B OR HPG9090B OR APPROVED EQUIVALENT. ALL GRATES TO BE PROVIDED WITH LOCKING CLIP
- 8. ALL PITS GREATER THAN 0.9m (FROM GRATE TO INVERT) TO BE
- PROVIDED WITH STEP IRONS
- 9. PROVIDE ONE CENTRAL LAYER OF SL82 MESH TO FLOOR AND WALLS FOR FULL DEPTH FOR PIT DEPTHS GREATER THAN 1.5m.

MACKENZIE



2 - 8 GILROY ROAD **TURRAMURRA**

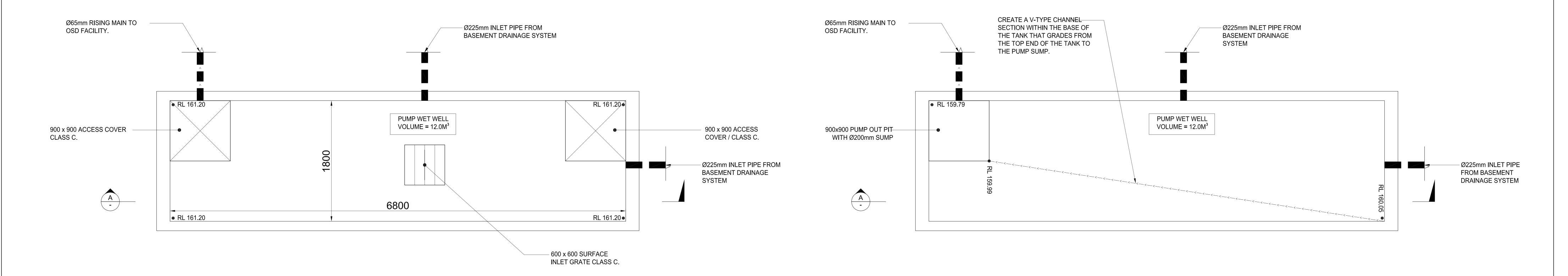
STORMWATER DETAILS SHEET 1

RAWING NUMBER DA4.01

11136

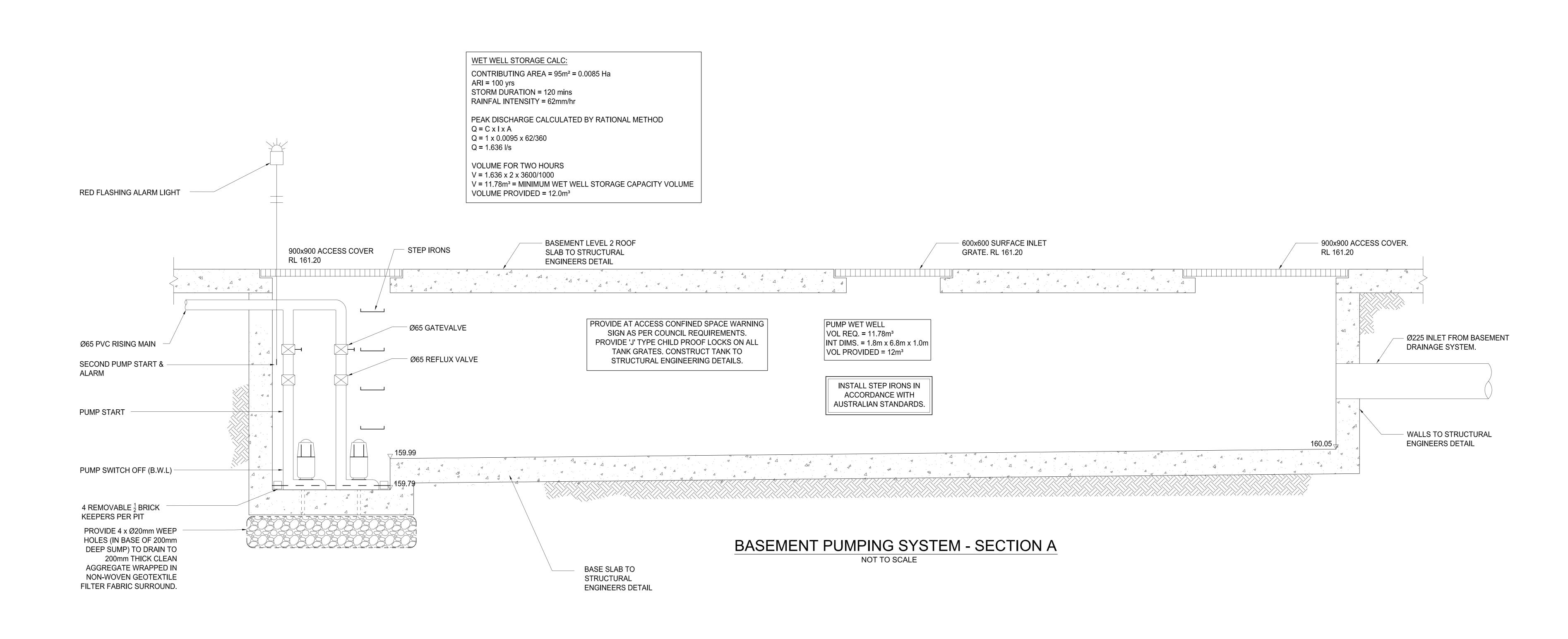
JOB NUMBER

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP ENGINEERS PTY. LTD.



BASEMENT PUMPING SYSTEM PLAN

BASEMENT PUMPING SYSTEM ROOF SCALE 1:25



NOT FOR CONSTRUCTION

SSUE AFRINDEST

1 SSUED FOR DA

2 REISSUED FOR DA

3 SEE SUED FOR DA

4 SOURCE SPEED DA

5 SEE SUED FOR DA