PROPOSED DEVELOPMENT 3 EDWARD STREET, KINGSWOOD

STORMWATER PLANS

GENERAL NOTES

- G1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
- G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. REFER ARCHITECTS DRAWINGS FOR ALL DIMENSIONS.
- G3. REFER ANY DISCREPANCY TO THE ENGINEER/ARCHITECT.
- G4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE APPROPRIATE SAA SPECIFICATIONS OR CODE AND WITH THE REQUIREMENTS OF THE RELEVANT LOCAL
- G5. THE ALIGNMENT AND LEVEL OF ALL SERVICES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- G6. NO WORKS ARE TO COMMENCE UNTIL THE REQUIRED TREE REMOVAL PERMITS HAVE BEEN GRANTED BY RELEVANT LOCAL AUTHORITY, AND THE APPROPRIATE NOTICE OF INTENTION TO COMMENCE GIVEN.
- G7. ALL SERVICES, OR CONDUITS FOR SERVICING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.
- G8. SUBSOIL DRAINAGE, COMPRISING 100 AGRICULTURE PIPE IN GEO-STOCKING TO BE PLACED AS SHOWN AND AS MAY BE DIRECTED BY THE SUPERINTENDENT. SUBSOIL DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
- G9. NO WORK IS PERMITTED WITHIN ADJOINING PROPERTIES WITHOUT WRITTEN PERMISSION FROM THE OWNERS OR RESPONSIBLE AUTHORITY.

DRAINAGE NOTES

- D1. ALL DRAINAGE OUTLET LEVELS SHALL BE CONFIRMED ON SITE, PRIOR TO CONSTRUCTION
- D2. ALL PIPES WITHIN THE PROPERTY TO BE MIN. 100 DIA UPVC @ 1% MIN. GRADE, UNO. D3. ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED **EQUIVALENT GRATES:**
- LIGHT DUTY FOR LANDSCAPED AREAS
- HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC D4. PITS WITHIN THE PROPERTY MAY BE CONSTRUCTED AS:
- 1) PRECAST STORMWATER PITS 2) CAST INSITU MASS CONCRETE
- 3) CEMENT RENDERED 230mm BRICKWORK
- SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION. D5. ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE
- PROPERTY. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER. ALL INVERT LEVELS ARE TO BE ACHIEVED. D6. ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED
- RCP, UNO. D7. ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING
- BOLTS AND CONTINUOUS HINGE. D8. PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH.
- D9. TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT
- D10. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE CONNECTED TO THE HED PIT, UNO.
- D11. DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100
- COLORBOND/ZINCALUME STEEL, UNO. D12. COLORBOND OR ZINCALUME STEEL BOX GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150
- D13. EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA)
- COLORBOND OR ZINCALUME STEEL, UNO. D14. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH
- THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.

EARTHWORKS NOTES

- E1. THE EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
- E2. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL
- E3. SUBGRADE SHALL BE COMPACTED UNTIL A DRY DENSITY HAS BEEN ACHIEVED OF NOT LESS THAN 100% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AS 1289 TESTS E.1.1. OR E.1.2. E4. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET
- AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. E5. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY,
- PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 150 LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM.
- E6. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS. STORMWATER MUST NOT BE CONCENTRATED ON TO AN ADJACENT PROPERTY.
- E8. AT NO TIME DURING OR AFTER CONSTRUCTION IS STORMWATER TO BE PONDED ON
- E9. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED
- AWAY FROM THE BUILDING PLATFORM. E10. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE SITE WORKS AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER
- COLLECTION PITS. E11. ALL SURFACE CATCH DRAINS SHALL BE GRADED AT 1% (1 IN 100) MINIMUM. THE GROUND SHALL GRADE AWAY FROM ANY DWELLING AT 5% (1 IN 20) FOR THE FIRST METRE THEN AT
- E12. WHERE A CUT FILL PLATFORM IS USED THERE SHALL BE A MINIMUM BERM 1000 WIDE TO THE PERIMETER OF THE SITE WORKS WHICH SHALL BE SUPPORTED BY BATTERS OF 3:1 IN
- E13. ANY VERTICAL OR NEAR VERTICAL PERMANENT EXCAVATION (CUT) DEEPER THAN 600 IN MATERIAL OTHER THAN ROCK SHALL BE ADEQUATELY RETAINED OR BATTERED AT A MINIMUM OF 3:1.
- E14. WHERE BATTERS CANNOT BE PROVIDED TO SUPPORT THE CUT OR FILL, THEY SHALL BE ADEQUATELY RETAINED.
- E15. RETAINING WALLS ARE TO BE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE

CONCRETE PAVEMENT

- C1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS. C2. PROVIDE JOINTING AT MINIMUM 6000 MAX. INTERVALS OR AS OTHERWISE SPECIFIED IN THE
- C3. CONCRETE SHALL COMPRISE A MIN. COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS IN
- ACCORDANCE WITH THE RELEVANT LOCAL AUTHORITY SPECIFICATION, UNO. C4. ANY SUB-BASE MATERIAL SHALL BE COMPACTED AS OUTLINED IN EARTHWORKS. C5. CONCRETE KERB AND GUTTER SHALL COMPRISE A MINIMUM COMPRESSIVE STRENGTH OF
- C6. CONCRETE WORKS ARE TO BE CURED BY ONE OF THE FOLLOWING MEANS: i) WETTING TWICE DAILY FOR THE FIRST THREE DAYS; ii) USING AN APPROVED CURING COMPOUNDED FOR A MINIMUM OF 7 DAYS COMMENCING IMMEDIATELY AFTER POURING.

FLEXIBLE PAVEMENT NOTES

- F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER THE RELEVANT COUNCIL AUTHORITY SPECIFICATION.
- F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150 AND NOT LESS 75 COMPACTED THICKNESS.
- F4. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141. F5. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75 NOMINAL SIZE DERIVED FROM
- SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.
- F6. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.2)

DESCRIPTION MEDIUM DENSITY RATIO SUB-BASE 98% MOD BASE COURSE 98% MOD

ASPHALTIC CONCRETE 97% MOD

AND SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.

F7. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978.

PAVED AREAS NOTES

- A1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- A2. ALL PAVERS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
- A3. TRAFFICABLE AREAS:
 - SUB-BASE TO BE 150 COMPACTED THICKNESS DGS75. SUB-BASE TO BE SUITABLY COMPACTED TO MEDIUM DENSITY 98% MOD. SUB-BASE TO EXTEND AT LEAST 200 BEYOND PAVED SURFACE.
- PAVERS TO BE 80 THICK INTERLOCKING PAVERS ON 50 SAND BEDDING. A4. NON TRAFFICABLE AREAS:
 - SUB BASE AS PER TRAFFICABLE AREAS PAVERS TO BE 60 INTERLOCKING PAVERS ON 50 SAND BEDDING (UNO).

EROSION AND SEDIMENT NOTES

- B1. THIS PLAN TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS ATTACHED.
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF THE RELEVANT LOCAL AUTHORITY PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT THE RELEVANT LOCAL AUTHORITY APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS".
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL SHALL BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN
- THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES SUCH THAT MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- LAY TURF STRIP (MIN 300 WIDE) ON 100 TOPSOIL BEHIND ALL KERB WITH 1000 LONG RETURNS EVERY 6000 AND AROUND STRUCTURES IMMEDIATELY AFTER BACKFILLING AS PER THE RELEVANT LOCAL AUTHORITY SPECIFICATION.
- THE CONTRACTOR SHALL GRASS SEED ALL DISTURBED AREAS WITH AN APPROVED MIX AS
- SOON AS PRACTICABLE AFTER COMPLETION OF EARTHWORKS AND REGRADING. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS
- WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS. WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL THEY SHALL BE IN CLEAN AND
- STABLE CONDITION. B9. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT
- NOT SATURATING) DISTURBED AREA. B10. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENT
- IS REVEGETATED OR PAVED. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B12. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL: - DOWNPIPES CONNECTED

- PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

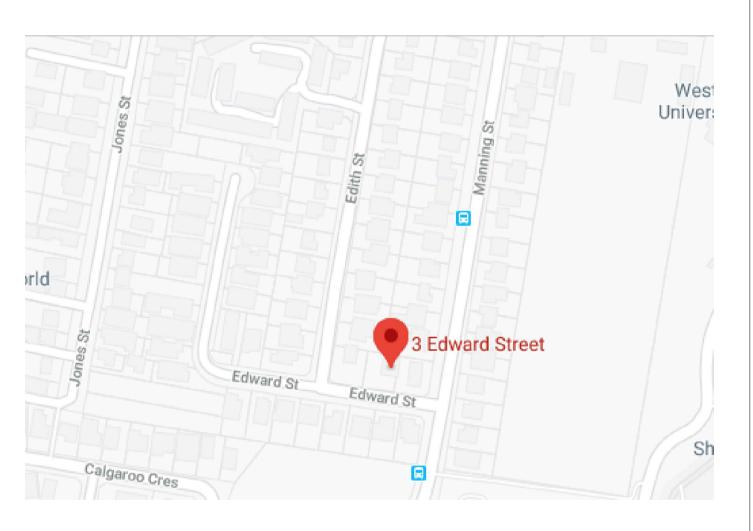
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SYMBOLS

DESCRIPTION			
	DENOTE ON-SITE DETENTION TANK OR PUMP OUT TANK		
	DENOTE ON-SITE DETENTION BASIN		
	DENOTE ABSORPTION TRENCH		
$\mathbf{o}^{ ext{DP}}$	DENOTES DOWNPIPE		
Ø100 \	DENOTES 100mm DIA STORMWATER SYSTEM PIPE AT 1% MIN. GRADE U.N.O		
Ø150 \\	DENOTES 150mm DIA STORMWATER SYSTEM PIPE AT 1% MIN. GRADE U.N.O		
Ø225 \\ //	DENOTES 225mm DIA STORMWATER SYSTEM PIPE AT 0.5% MIN. GRADE U.N.O		
	DENOTES AGG LINE		
	DENOTES SEDIMENT FENCE		
I₽ <mark>o</mark>	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISH SURFACE LEVEL		
Œ	DENOTES CLEANING EYE		
	STORMWATER PIT - GRATED INLET		
	STORMWATER PIT - SOLID COVER		
\bowtie	NON RETURN VALVE		
FD	DENOTE ROUND FLOOR DRAINS		
FD	DENOTE SQUARE FLOOR DRAINS		
РВ	DENOTE PLANTER BOX DRAINS		
	DENOTE GRATED DRAIN		
RL 6.20	PROPOSED FINISH FLOOR LEVEL		
>>>	DENOTE EXISTING OVERLAND FLOW PATH		
	DENOTE RAINWATER TANK		
O/F	DENOTE WATER OUTLET		
RL	REDUCED LEVEL/SURFACE LEVELL		
IL	INVERT LEVEL		
TK	TOP OF KERB		

SCHEDULE OF DRAWINGS

SHEET No	DESCRIPTION
COVER	GENERAL NOTES
SW01	GROUND FLOOR STORMWATER MANAGEMENT PLAN
SW02	ROOF PLAN & SECTIONS AND DETAILS
SW03	SEDIMENT & EROSION CONTROL PLAN



LOCALITY MAP

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CONCEPT PLAN ONLY

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Version: 1, Version Date: 11/08/2020





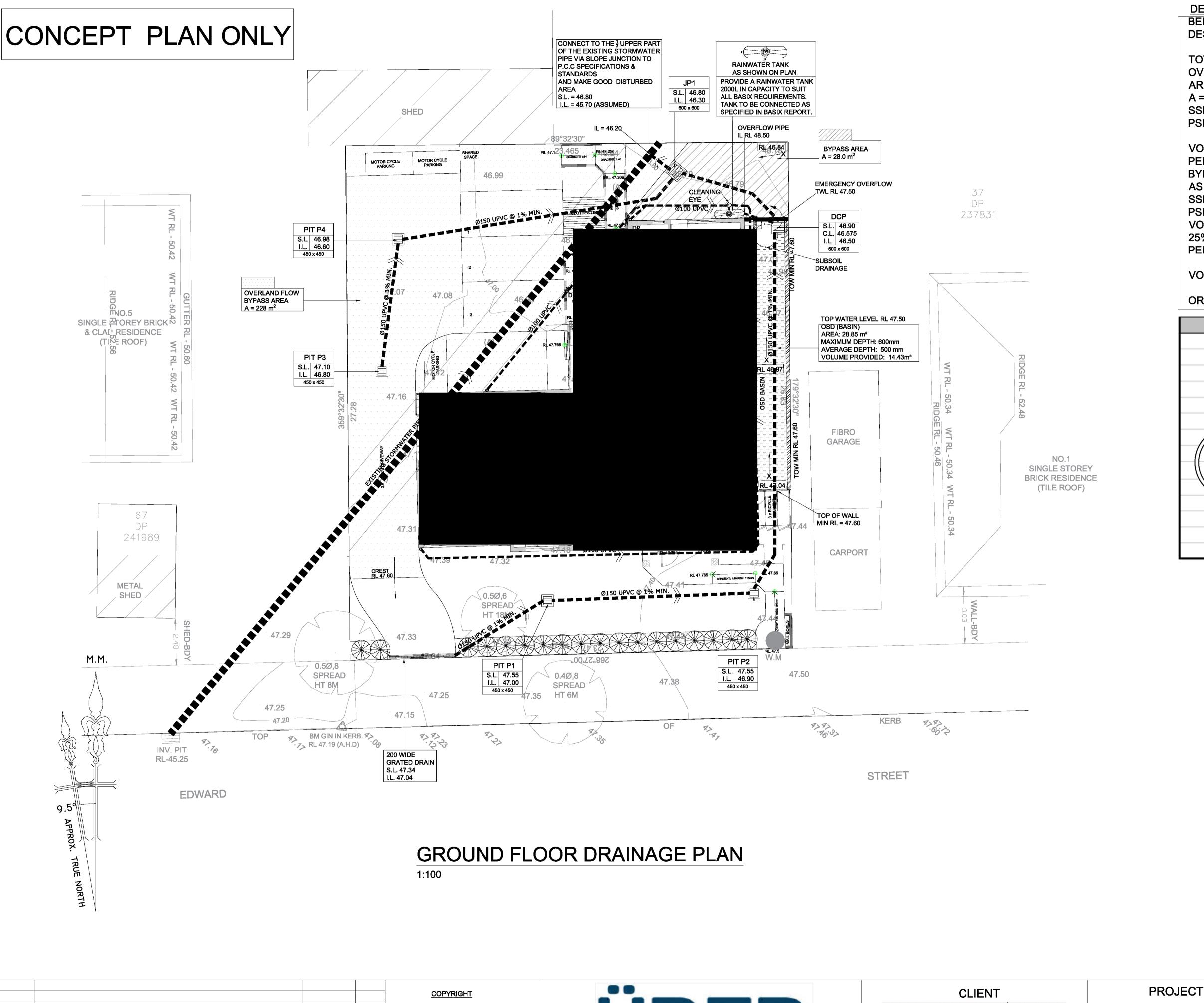
PROJECT PROPOSED DEVELOPMENT 3 EDWARD STREET **KINGSWOOD**

DRAWING TITLE **GENERAL NOTES**

SCALES **DESIGNED** DRAFTED **AS SHOWN APPROVED** REVISION DRAWING NO. U20122 COVER

ADDRESS: GROUND FLOOR, NO. 4 TALAVERA ROAD NORTH RYDE NSW 2112

(t). 1300 792 652, (m). 0403 333 873 (e). zia@uberengineering.com.au



DESIGN SUMMARY

BELOW DESIGN IS BASED ON PENRITH COUNCIL STORMWATER DESIGN GUIDELINE SECTION "4.3.5- SIZING OSD SYSTEM."

TOTAL SITE AREA = 632.2 m^2 OVERLAND FLOW BYPASS AREA = 228 m^2 AREA CONSIDERED FOR OSD AS PER SECTION 4.2.1 A = $632.2 - 228 = 404.2 \text{ m}^2$ SSR = $240 \text{ m}^3/\text{ha}$ PSD = 120 L/s/ha

VOLUME REQUIRED = $240 \times 0.0404 = 9.7 \text{ m}^3$ PERMISSIBLE SITE DISCHARGE = $120 \times 0.0404 = 4.85 \text{ L/s}$ BYPASS AREA = $28 \text{ m}^2 (7.0\%)$ AS PER TABLE 8 SSR = 313 m^3 /ha PSD = 77.3 L/s/haVOLUME REQUIRED = $313 \times 0.0404 = 12.65 \text{ m}^3$ 25% ADDITIONAL VOLUME = $25\% + 12.65 = 15.81 \text{ m}^3$ PERMISSIBLE SITE DISCHARGE = $77.3 \times 0.0404 = 3.12 \text{ L/s}$

VOLUME PROVIDED = 14.43 m³ + (1 m3 IN PITS AND PIPES) = 15.43 m³

ORIFICE DIAMETER = 39 mm

Orifice Diameter				
	C =		0.620	
	Q=		3.12	l/s
	h =		0.925	m
D				
	Orifice dia	meter d =	0.039	m
	This equation rel	ies on:	Free disch	
	Sharp edged orifice			

ALL WALLS FORMING THE DETENTION BASIN
SHALL BE CONSTRUCTED WHOLLY WITHIN THE
PROPERTY BOUNDARIES OF THE SITE BEING
DEVELOPED.

ANY LANDSCAPED AREAS WITHIN THE OSD BASIN ARE MULCHED WITH DECORATIVE ROCK MULCH (IE NON FLOATABLE)

PROVIDE SUITABLE BARRIER OR RAILING WERE DROP TO OSD BASIN EXCEEDS 600 mm

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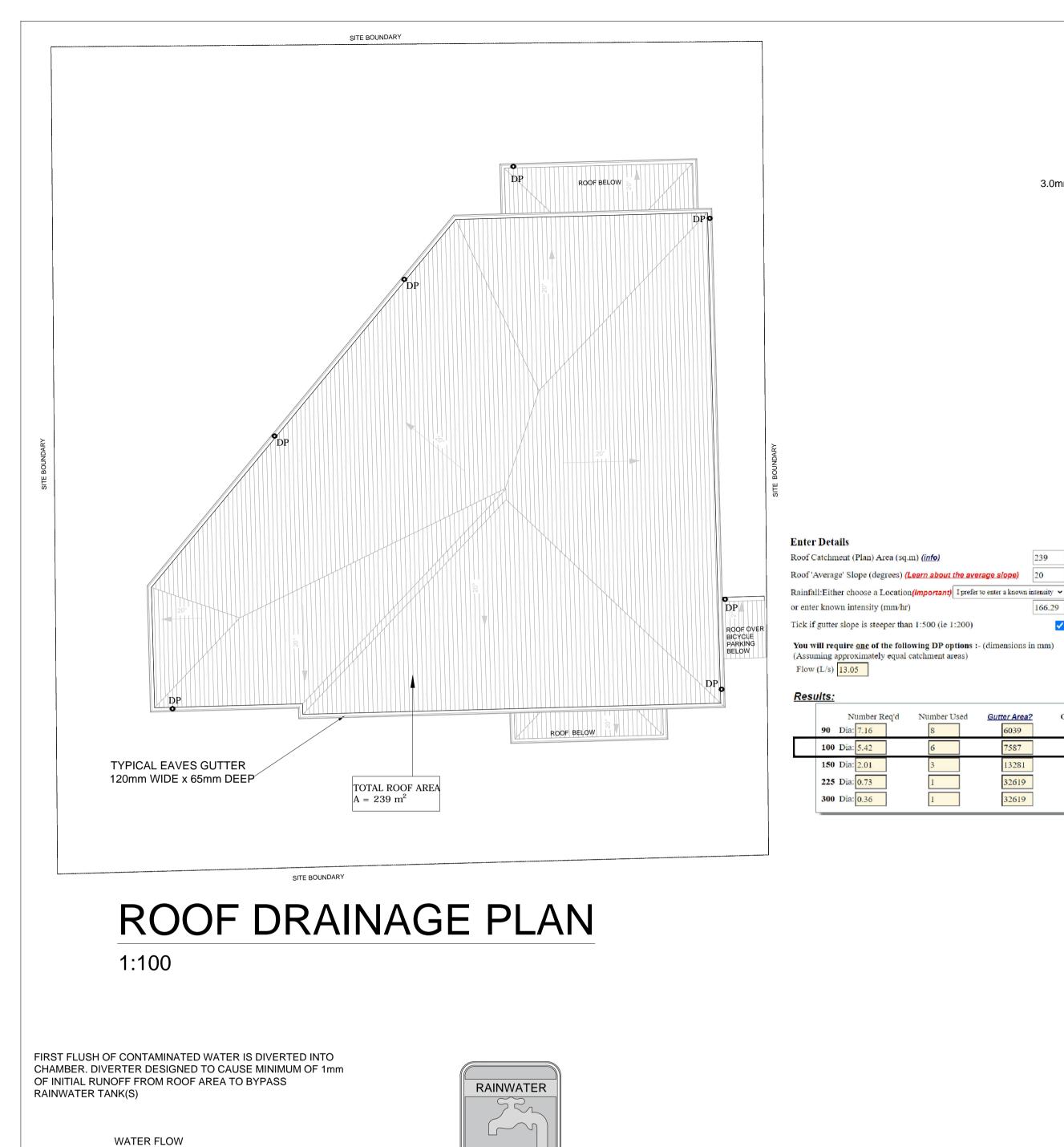


PROPOSED DEVELOPMENT
3 EDWARD STREET
KINGSWOOD

DRAWING TITLE

GROUND FLOOR DRAINAGE PLAN

SCALES	DESIGNED	DRAFTED
AS SHOWN	ZK	MK
RAWING NO.	APPROVED	REVISION
U20122 SW01	ZK	Α



RAINWATER SUPPLY SIGN

MAX. OVERFLOW

RAINMASTER SLIMLINE

WATER TANKS.

TO MANUFACTURES

AND SYDNEY WATER SPECIFICATIONS

100Ø OVERFLOW PIPES TO OSD SYSTEM.

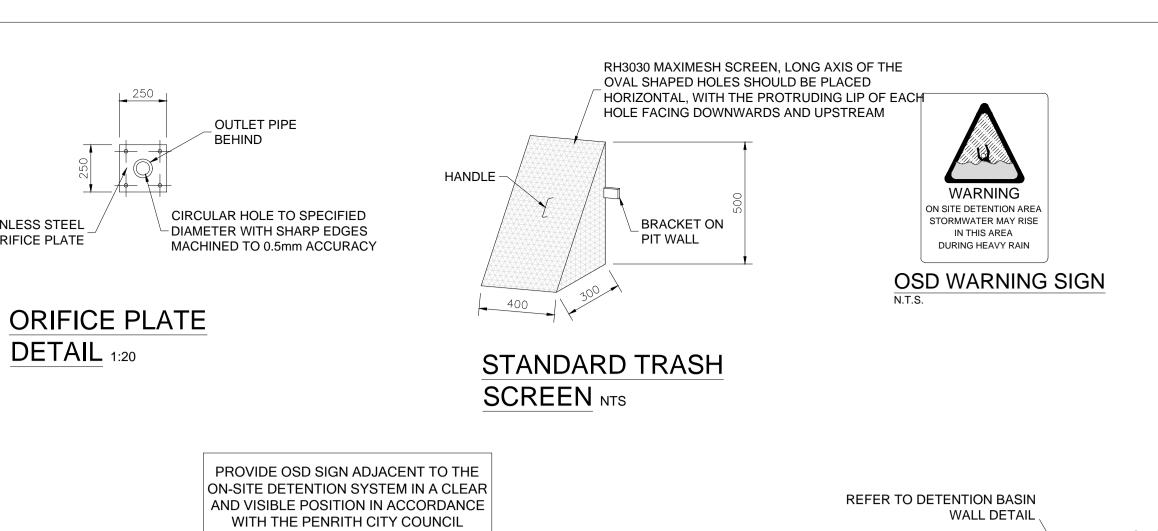
OUTLET TO BE MOSQUITO PROOFED.

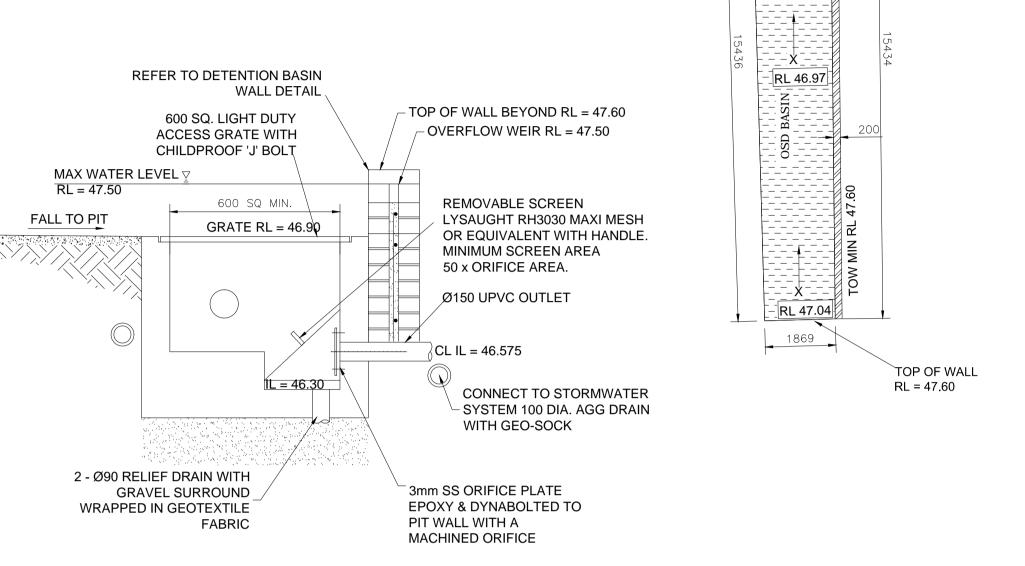
(GENERIC LOCATION SHOWN)

DOWNPIPE TO

TANK

ALL WITHSTAND EXTERNAL ELEMENTS





SUBSOIL

DRAINAGE

DCP SECTION A-A AT OUTLET

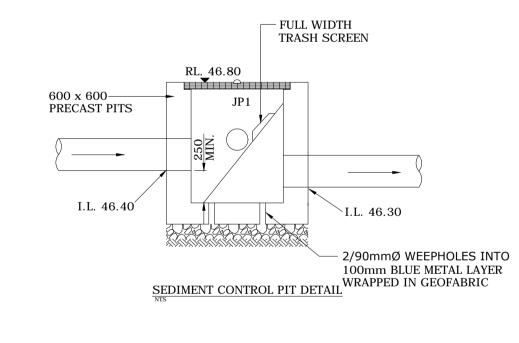
ON- SITE DETENTION BASIN PLAN SCALE 1:100

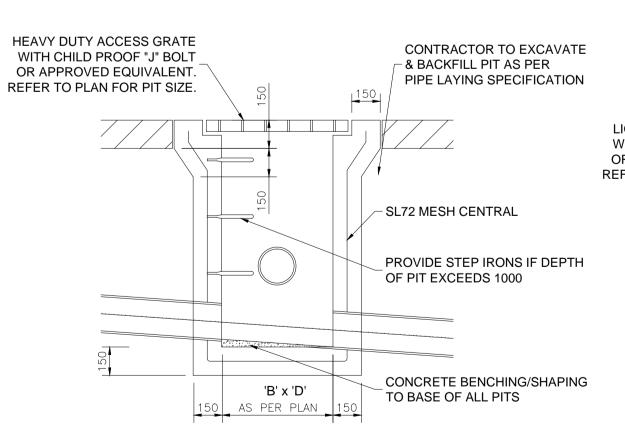
EMERGENCY OVERFLOW

TWL RL 47.50

S.L. 46.90

C.L. 46.575 I.L. 46.50 600 x 600





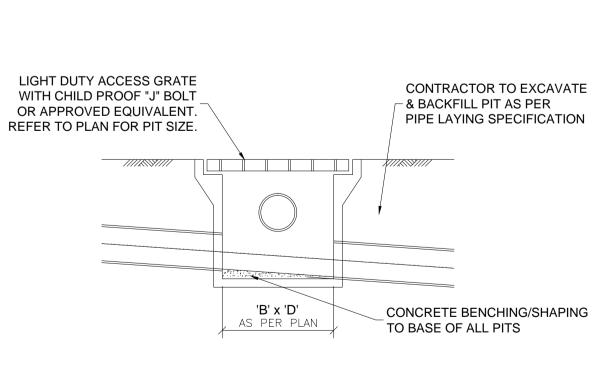
3.0mm STAINLESS STEEL

Gutter Width

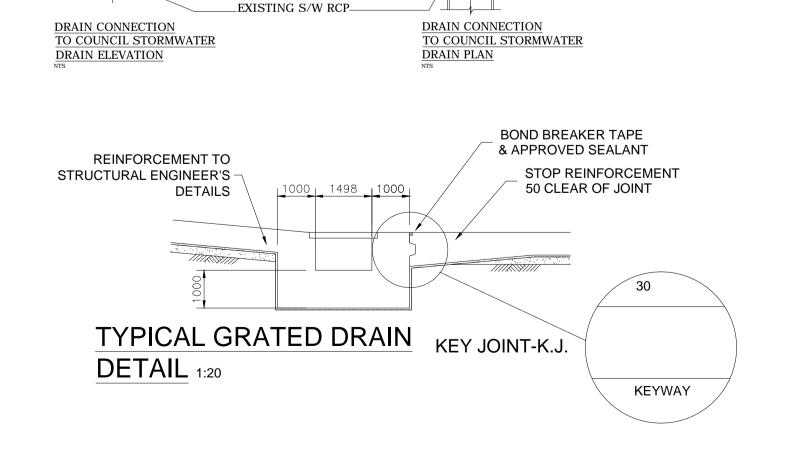
Gutter Depth?

ORIFICE PLATE





TYPICAL SURFACE INLET PIT DETAIL 1:100 TYPICAL FOR ALL PITS IN NON TRAFFIC AREAS.



DRAWING NO.

U20122 SW02

PIPE DIA 150 mm UPVC

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Do	dcument Set ID: 924841		

FROM ROOF

DRIP OUTLET WITH SCREW CAP

PROPRIETARY FIRST FLUSH DIVERTER

BALL SEAT

DIVERTER

CHAMBER

SCALE N.T.S.

Version: 1, Version Date: 11/08/2020



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PROPOSED DEVELOPMENT 3 EDWARD STREET **KINGSWOOD**

PROJECT

DRAWING TITLE	Ξ	
ROOF PLAN, SECTIONS AND DETAILS		
SCALES AS SHOWN	DESIGNED ZK	drafte MK

APPROVED

REVISION

