

PROPOSED DUAL OCCUPANCY DWELLING AT 31 DUNMORE STREET, CROYDON PARK NSW

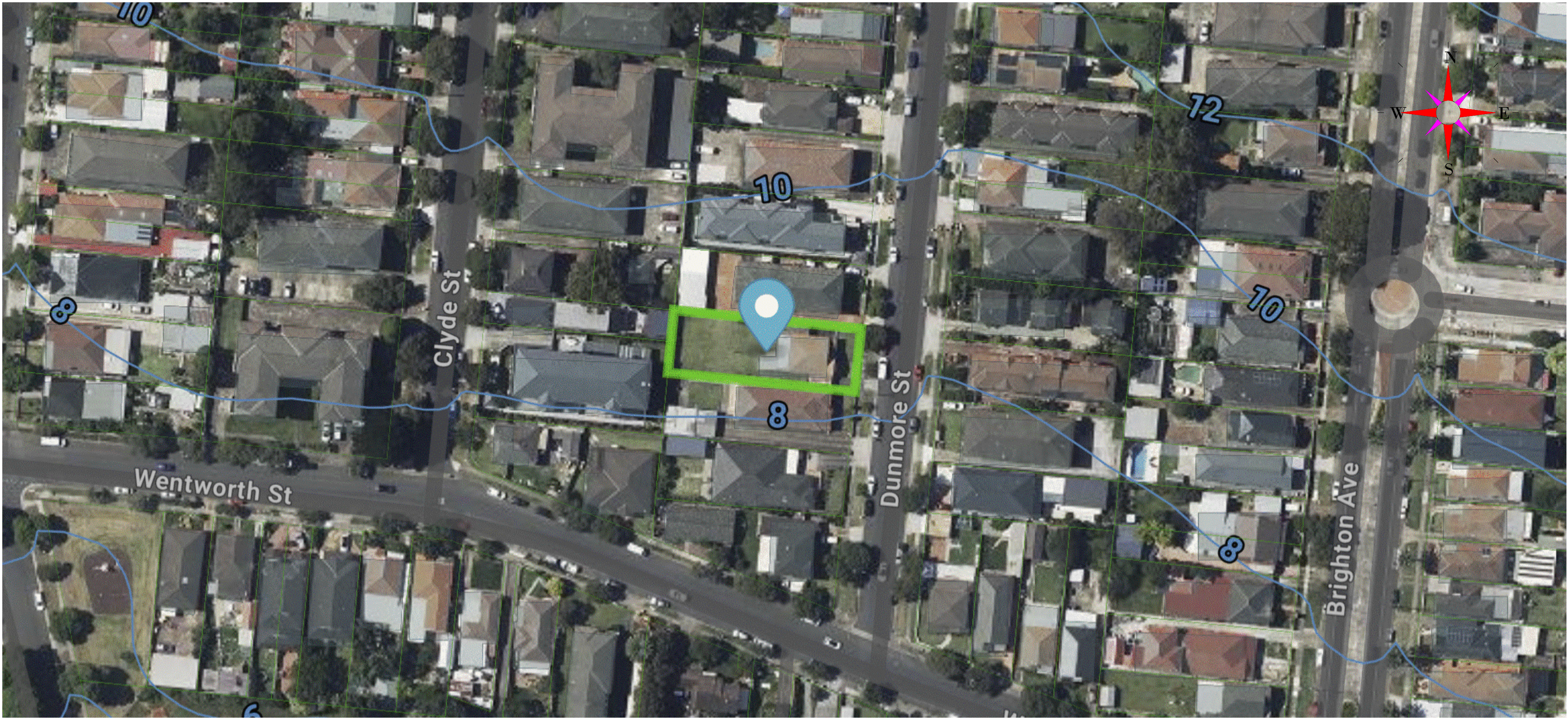
CONCEPT STORMWATER DESIGN

TABLE OF SCHEDULES

SHEET #	DRAWING NAME	REV	DATE
SW-100	COVER PAGE	1	11/27/2024
SW-101	GENERAL NOTES	1	11/27/2024
SW-200	STORMWATER PLAN - GROUND FLOOR PLAN	1	11/27/2024
SW-300	SEDIMENT & EROSION CONTROL PLAN	1	11/27/2024
SW-400	STANDARD DETAILS	1	11/27/2024

SPECIFICATIONS

THESE PLANS SHALL BE READ IN CONJUNCTION WITH
ARCHITECTURAL DESIGN PLANS AND STRUCTURAL DESIGN
PLANS



SITE LOCALITY

PREPARED BY



LEVEL 2, 10 MALLET STREET, CAMPERDOWN, NSW 2050
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ARCHITECT

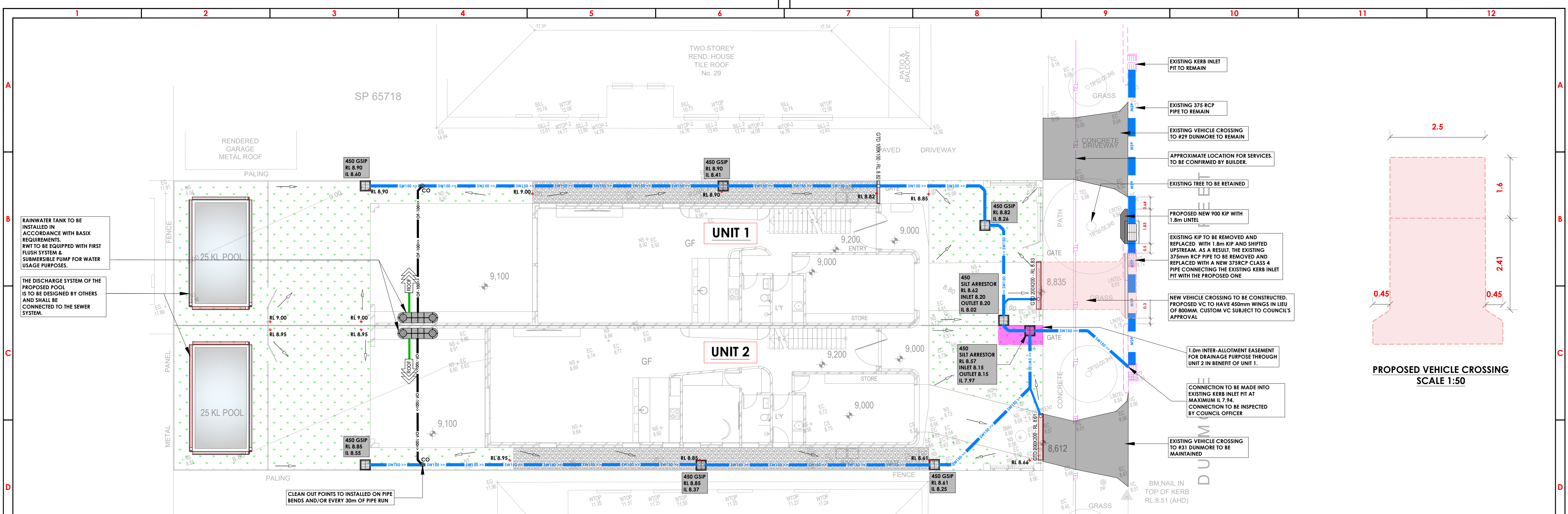
ZED ARCHITECTS

Nominated Architects:
Ziad Boumelhem Reg no 8008



CLIENT

SIMON SEMAAN



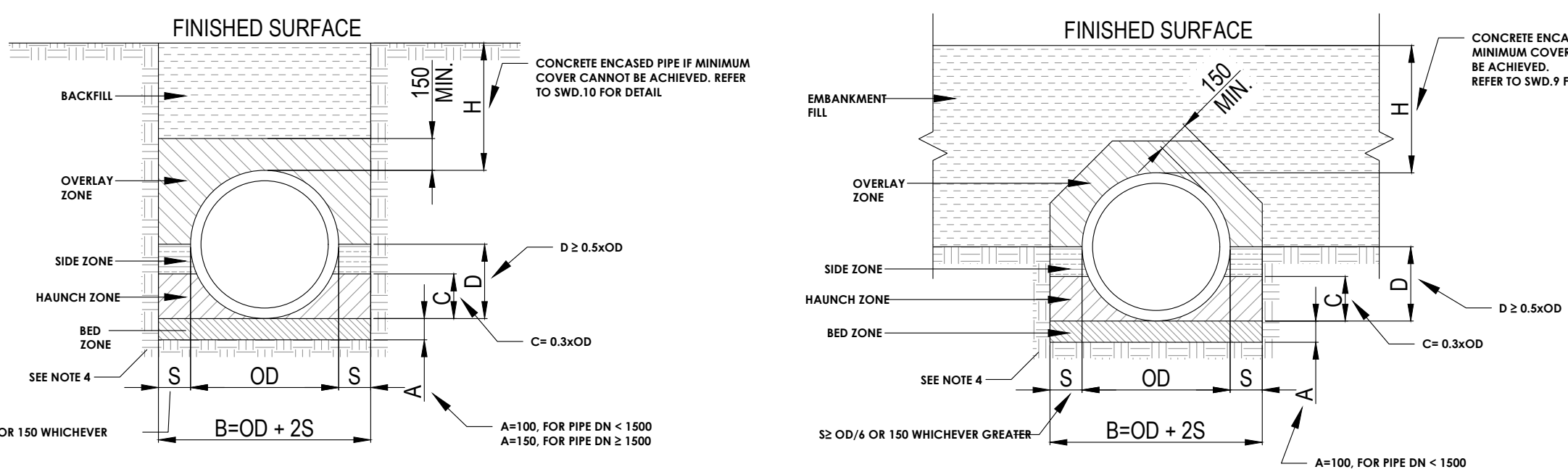
STORMWATER DESIGN - GROUND FLOOR PLAN
SCALE 1:100

!ATTENTION!
PLANS ARE COLOR CODED. PRINT IN COLOR

!ATTENTION!
PLANS TO BE READ ON CONJUNCTION WITH ARCHITECTURAL & STRUCTURAL PLANS

!ATTENTION!
IT'S THE BUILDERS RESPONSIBILITY TO LOCATE ALL SERVICES BEFORE EXCAVATION

!NOTES!
CATCHMENT AREA OF EACH DP TO BE ROUGHLY SIMILAR SIZE. LENGTH OF ANY GUTTER DRAINING TO A DOWNPIPE TO BE NOT LONGER THAN 12m.(NCCVOL2).

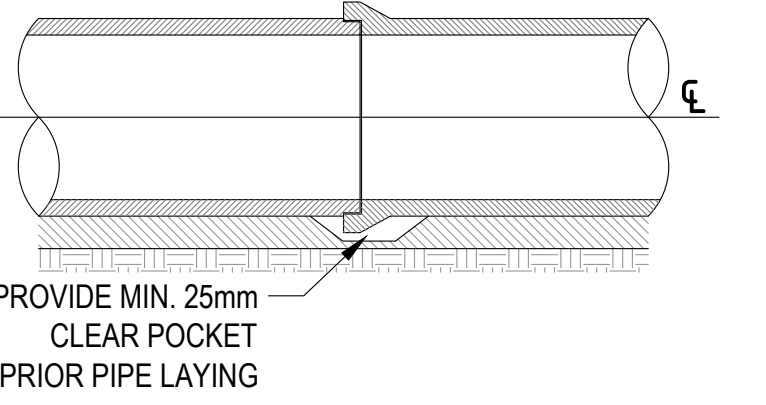


TYPICAL PIPE INSTALLATION TRENCH
DETAIL
Scale N.T.S.

TYPICAL PIPE INSTALLATION EMBANKMENT
DETAIL
Scale N.T.S.

- NOTES:**
- ALL PIPE SHALL BE REINFORCED CONCRETE RUBBER RINGS JOINT (BELL SOCKET) PIPE U.N.O.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH AS3725 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPE.
 - THE TRENCH SHALL BE OVER-EXCAVATED IF REQUIRED TO REMOVE ANY UNSUITABLE MATERIAL AND REFILLED WITH COMPACTED MATERIAL CONFORMING TO THE REQUIREMENTS FOR THE BED ZONE.
 - ALL COMPACTION LAYER SHALL NOT EXCEED 150mm. COMPACTION ACHIEVED SHALL BE MONITORED BY FIELD TESTING IN ACCORDANCE WITH AS 1289.
 - PROVIDE CONCRETE BULKHEAD FOR PIPE SLOPES > 15%. REFER TO SWD.9 FOR DETAIL.
 - ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

PIPE CLASS	MINIMUM COVER 'H'	
	ROADWAY COVER (mm)	NON ROADWAY COVER (mm)
CLASS 2	650	400
CLASS 3	450	400
CLASS 4	400	400



TYPICAL PIPE JOINT DETAIL
Scale N.T.S.

DESIGN NOTES:

THE SITE IS GOVERNED BY CANTERBURY-BANKSTOWN COUNCIL DEVELOPMENT CONTROL PLAN

TYPE OF DEVELOPMENT = DUAL OCCUPANCY

IN ACCORDANCE WITH COUNCIL'S DCP - CHAPTER 3 - SECTION 4.1:

DUAL OCCUPANCIES WILL NOT REQUIRE OSD WHERE:

DUAL OCCUPANCIES AND OUTBUILDINGS HAVE AN IMPERVIOUS AREA OF NO MORE THAN 66% OF THE SITE AREA.

SITE AREA = 696.77m²
TOTAL IMPERVIOUS AREA = 410.72m² (58.95% < 66%)

Δ ON SITE DETENTION IS NOT REQUIRED Δ

ALL DOWNPIPES AND GUTTERING HAVE BEEN DESIGNED TO ACCOMMODATE FOR THE 1 IN 100 YEAR EVENT

LOCATION OF ALL STORMWATER PIPES, PITS & TRENCHES TO BE CO-ORDINATED WITH EXISTING TREES TO BE RETAINED (TYP).

DOWNPIPE LOCATIONS ARE INDICATIVE AND TO BE CONFIRMED DURING CONSTRUCTION.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 300mm TOPSOIL COVER OR 100mm CONCRETE COVER U.N.O.

ZONE DETAIL:

BED ZONE:

CLASSES:

IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING

SIEVE SIZE (mm)	19.0	2.36	0.60	0.30	0.15	0.075
% MASS PASSING	100	100-50	90-20	60-10	25-0	10-0

THE MATERIAL PASSING THE 0.075mm SIEVE MUST HAVE LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS 1726. COMPACTION BY TAMPING, ROLLING AND/OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60. FILL MATERIAL COMPLYING WITH THE REQUIREMENTS SHOWN ABOVE FOR THE BED ZONE. COMPACTION BY SATURATION AND VIBRATION TO ACHIEVE A MINIMUM DENSITY INDEX OF 60.

HAUNCH ZONE:

CLASSES:

IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING

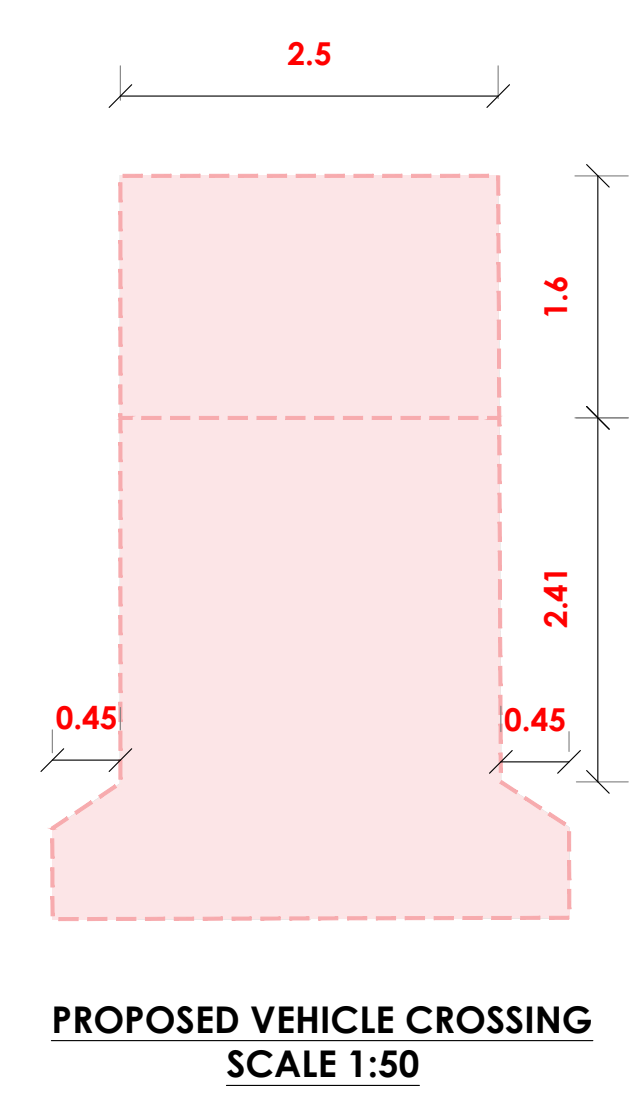
SIEVE SIZE (mm)	75	9.5	2.36	0.60	0.075
% MASS PASSING	100	100-50	100-30	50-15	25-0

COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM RELATIVE DENSITY OF 90% OR A MINIMUM DENSITY INDEX OF 60. FILL MATERIAL FROM EXCAVATED TRENCH SHALL NOT CONTAIN ANY STONES LARGER THAN 150mm, NOR MORE THAN 20% WITH A SIZE BETWEEN 75mm AND 150mm. COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60.

OVERLAY ZONE:

CLASSES:

75mm AND 150mm. COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60. BACKFILL/EMBANKMENT FILL: MATERIAL FROM EXCAVATED TRENCH COMACTED TO PREVENT EXCESSIVE SETTLEMENT IN THE GROUND SURFACE LEVEL. FOR ROAD REFER TO TM.6 FOR DETAIL.



PROPOSED VEHICLE CROSSING
SCALE 1:50

REV	DATE	BY	CHKD	APPD	DETAILS
01	27-Nov-24	CS	SCH	FOR APPROVAL	

PROJECT ADDRESS: 31 DUNMORE STREET, CROYDON PARK

SCALE BAR 1:100

0 5 10 15 20

SAMIR C. HAKIM
B.E., M.E. (civil/construction), ADV.
DIPLOMA (civil design), M.I.E. Aust,
PENG MIE Aust # 3491570

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ARCHITECT

SAMIR C. HAKIM

DIAL 1100 BEFORE YOU DIG

REVIEWED: SAMIR C. HAKIM

COUNCIL

CANTERBURY BANKSTOWN

CLIENT

SIMON SEMAAN

ENGINEER

CIVIL STORMWATER ENGINEERING GROUP

INNOVATE. ENGINEER. TRANSFORM.

STORMWATER DESIGN - GROUND FLOOR PLAN

SCALE: 1:100 (A3 1:200)

PROJECT No: CSW2024.155

DEVELOPMENT APPLICATION (DA)

SUPERSEDES:

DRAWING TITLE

SW-200

A1	01
SHT SIZE	REVISION
APPLICATION	03
DRAWING TITLE	SHEET



(c) Joining fabric - Method 1

Fabric to fold around each stake one full turn.
Stake B to be drive tightly against Stake A.
The tops of both stakes to be secured with wire.

(d) Installation without backing support

Woven or composite sediment fence fabric
200 (min)
2000 mm (max) without support wire
Post
Sheet flow

(e) Installation with top wire support

Woven or composite sediment fence fabric
200 (min)
3000 mm (max) with top wire or wire mesh backing
Post
Top wire support
1 m (max) secure fabric to wire
Sheet flow

(f) Installation with top wire support and mesh backing

Woven or composite sediment fence fabric
200 (min)
3000 mm (max) with top wire or wire mesh backing
Post
Top wire support
1 m (max) secure fabric to wire
Sheet flow

(g) Joining fabric - Method 2

Staple/tack
Fabric B
Fabric A
Safety cap
Support post option 1
1500 mm² hardwood stake
Support post option 2
1.5 kg/m steel star picket

(h) Installation with top wire support

Woven or composite sediment fence fabric
200 (min)
3000 mm (max) with top wire or wire mesh backing
Post
Top wire support
1 m (max) secure fabric to wire
Sheet flow

-

The figure consists of two schematic diagrams. The left diagram shows a cross-section of a channel with a central sediment bed. The width of the bed is labeled W , and the minimum height is labeled 300 mm (min). The right diagram shows a detail of the sediment bed with a fabric layer, a straw bale, and a sediment layer, with a height of 200 mm.

3 m (max) with wire backing, otherwise 2 m (max)

Direction of flow

'Returns' placed at 20 m spacing (max) if fence is located along the contour, otherwise 5 to 10 m depending on the slope

1.5 m (min)

Fabric buried 200 mm

Sediment fence fabric, not filter cloth or shade cloth

All support posts placed down-slope of fabric

(4) Installation of sediment fence

The diagram illustrates the installation and function of a silt fence. The left side shows a perspective view of the fence structure, which consists of a rectangular frame made of stakes and a drop inlet with a grate. The interior of the frame is filled with geotextile filter fabric. The right side shows a cross-section of the fence. It depicts the silt fence as a vertical barrier made of a grid-like fabric. Run-off water with sediment flows from the left towards the fence. The sediment is trapped behind the fence, while the filtered water passes through. The fabric is shown buried 0.2m into the ground. A dimension line indicates a height of 200 units for the fabric section.

STAKES

DROP INLET WITH GRATE

GEOTEXTILE FILTER FABRIC

SILT FENCE

RUN-OFF WATER WITH SEDIMENT

FABRIC BURIED 0.2m

200

FILTERED WATER

50 – 75 mm, or
100 – 150 mm
crushed rock

Minimum length 15 m (min)

300 mm (min)

200 mm (min)

Width 3.0 m (min)

Flow control berm incorporated
into the rock pad if the pad
receives runoff from the soil
disturbance (location may vary)

Up-slope runoff directed to
an appropriate
sediment trap

Geotextile filter cloth (mandatory
when working on clayey soils)

Kerb

Footpath

Make safe for
pedestrian traffic

Roadway

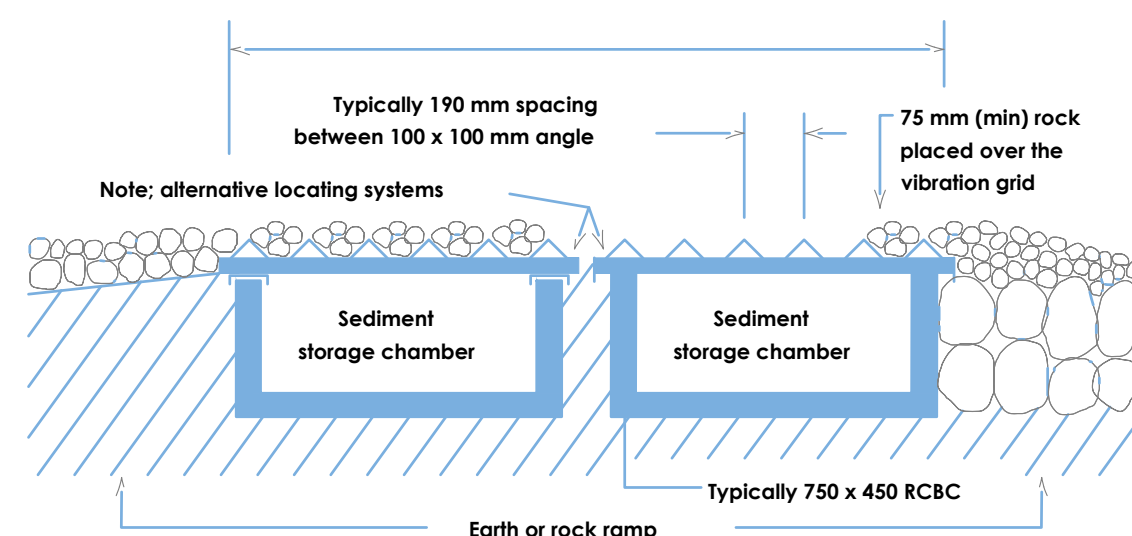
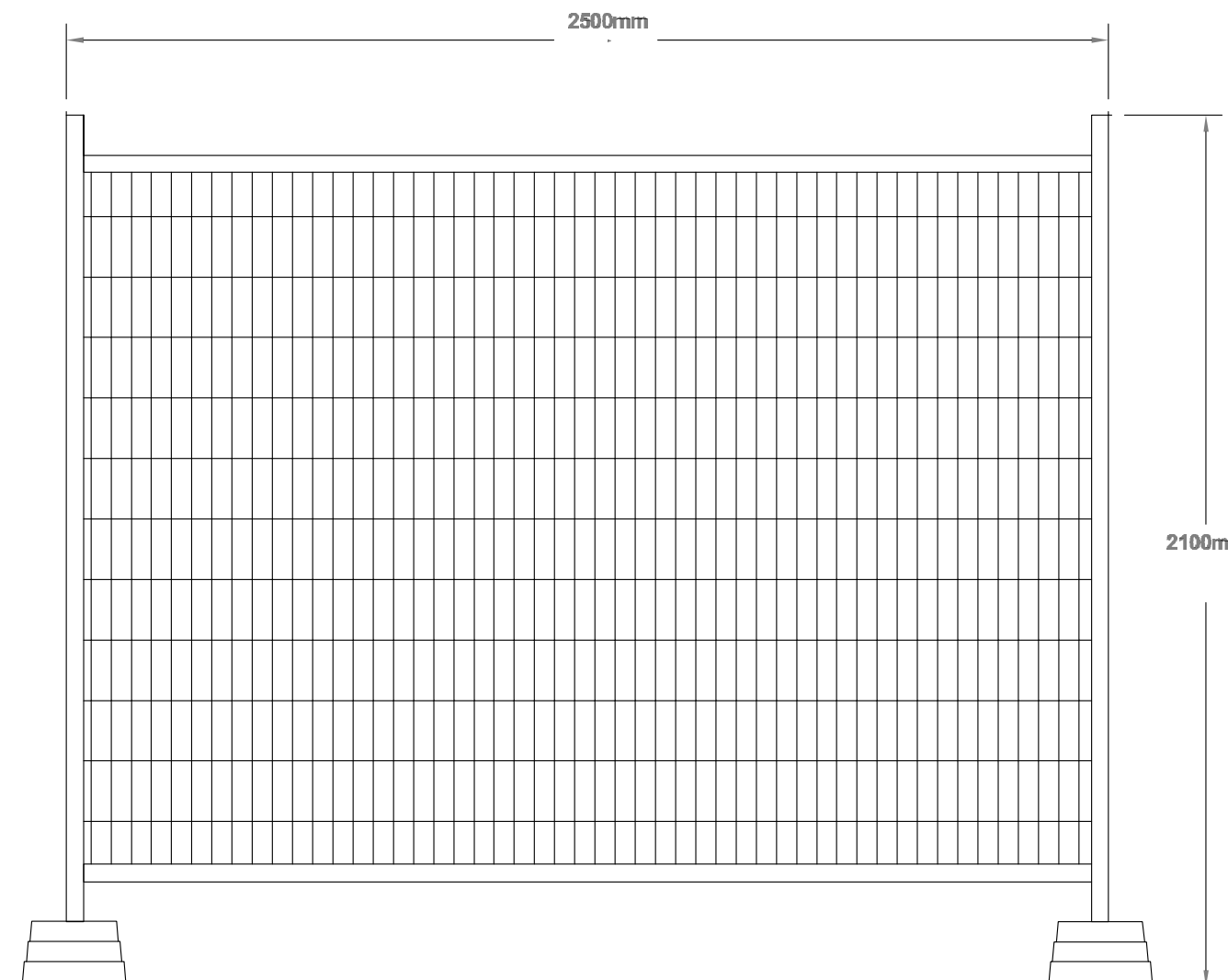
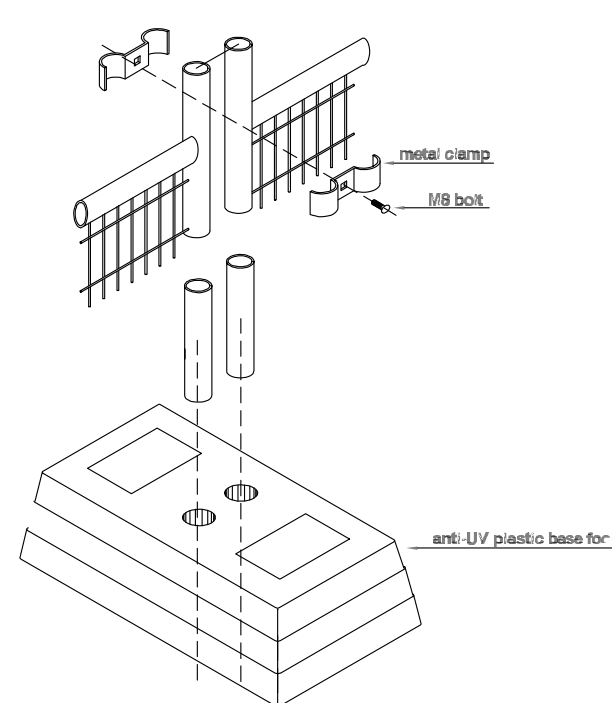
(a) Rock entry/exit pad for construction sites
(refer to Standard Drawing Exit-03 for building sites)

(b) Rock pad sloping away from road

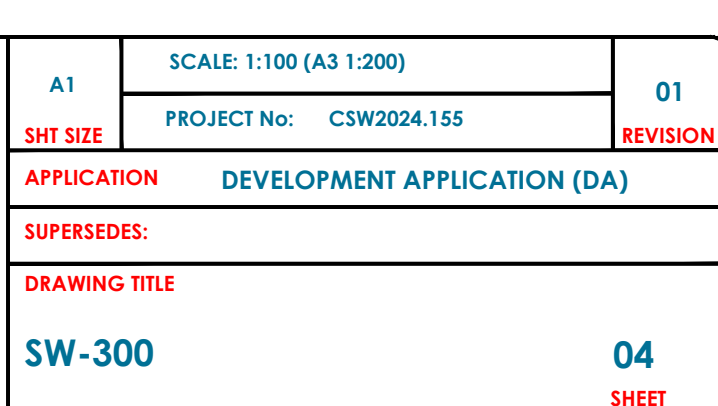
(b) Rock pad sloping away from road

(d) Rock pad sloping towards the road

(d) Rock pad sloping towards the road



Earth or rock ramp





LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND



NOTES:

SAG PITS SHALL HAVE THE LINTEL PLACED CENTRALLY ABOUT THE GRATE

ALL REINFORCING TO HAVE 40mm MIN. COVER

CONCRETE TO HAVE 25MPa COMPRESSIVE STRENGTH
AT 28 DAYS

PITS DEEPER THAN 1200mm SHALL BE PROVIDED WITH
STEP IRONS TO AS1657

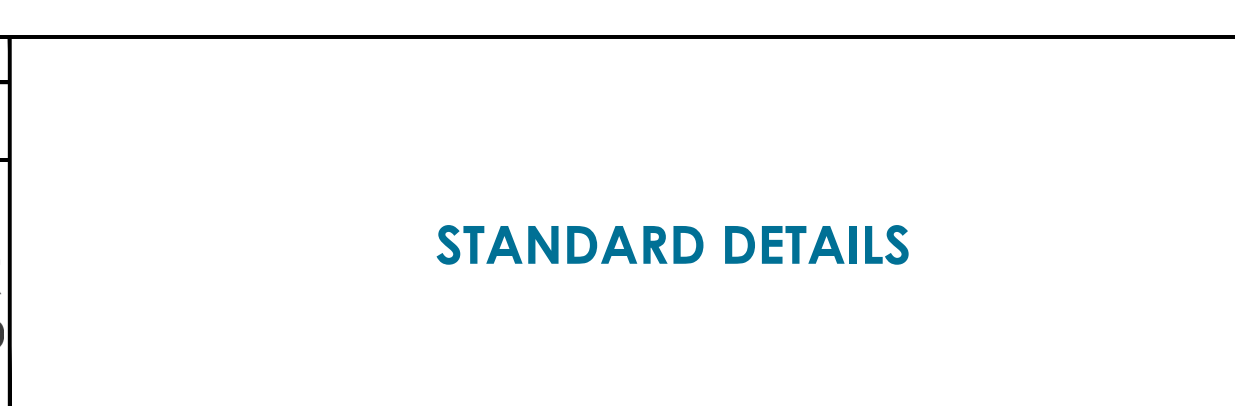
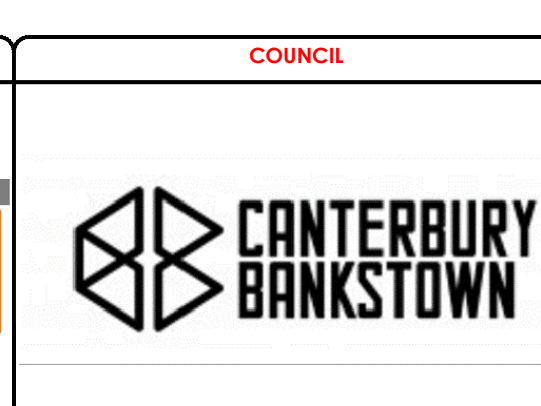


20 SCALE BAR 1:100

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A1	SCALE: 1:100 (A3 1:200)	01
	PROJECT No: CSW2024.155	
SHT SIZE		REVISION
APPLICATION	DEVELOPMENT APPLICATION (DA)	
SUCCEEDS:		
DRAWING TITLE		
SW-400		05
		SHEET