

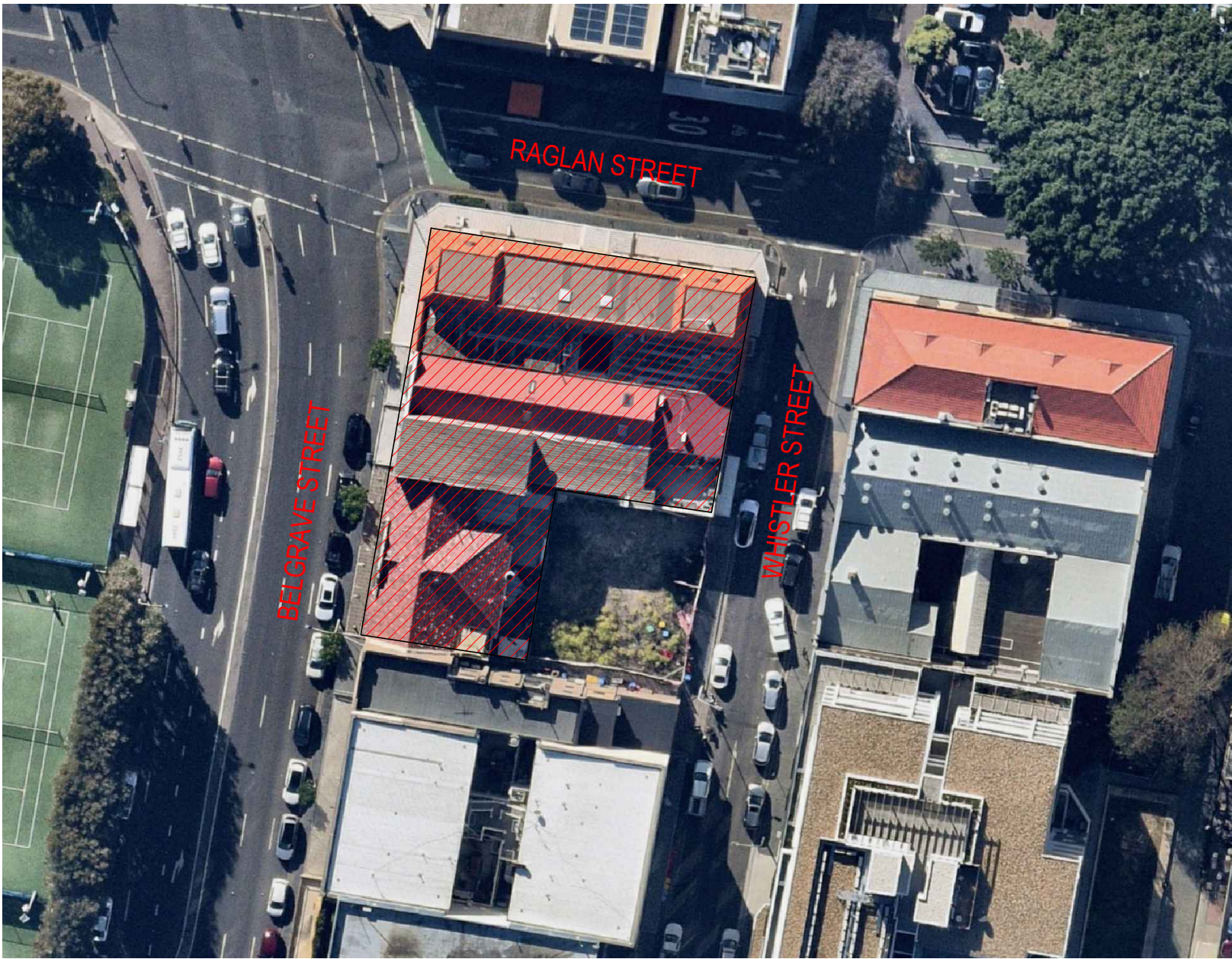
RESIDENTIAL DEVELOPMENT

35-43 BELGRAVE STREET

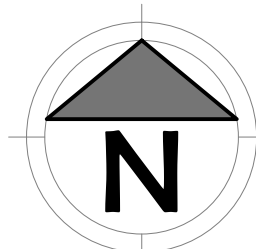
MANLY, NSW 2095

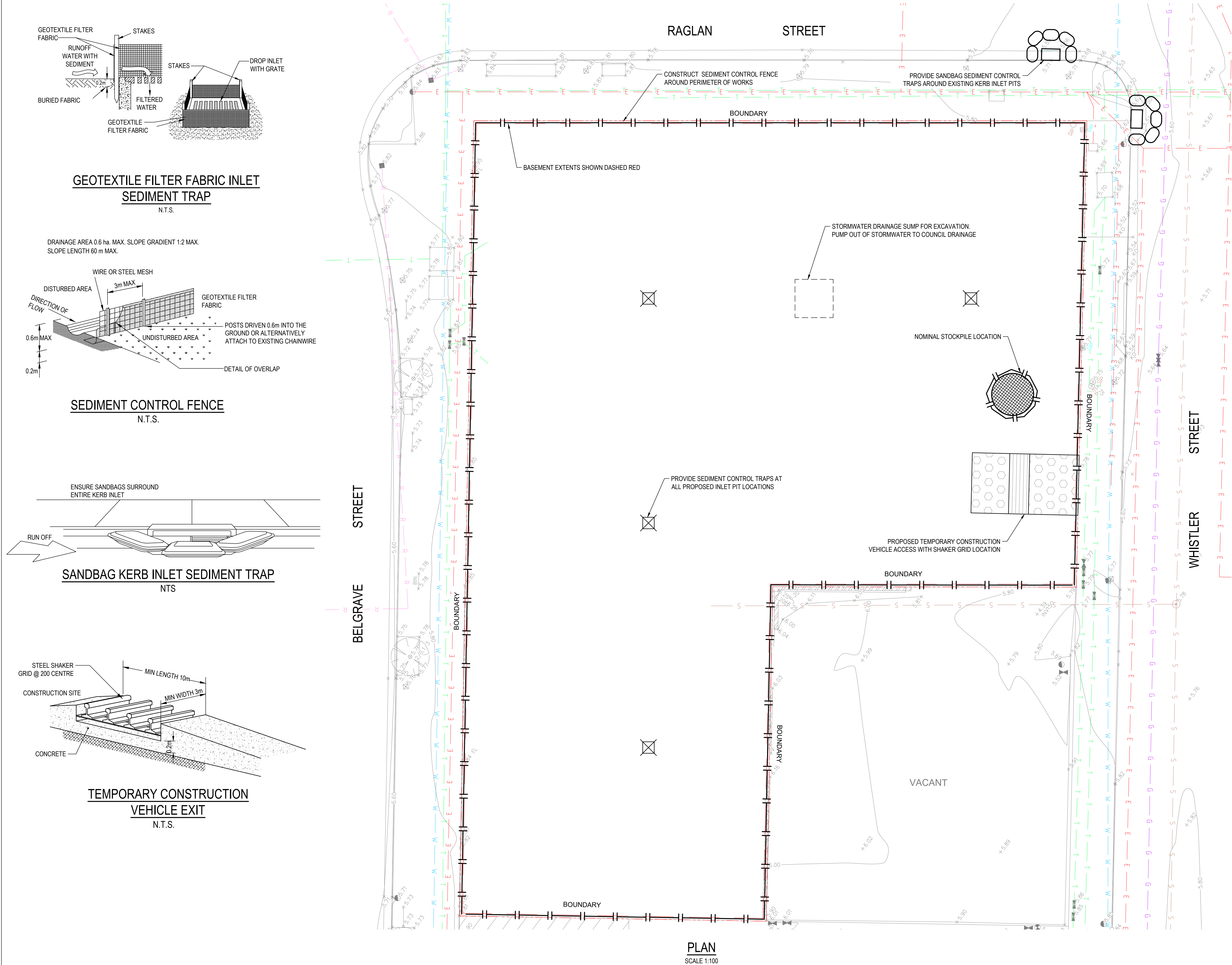
CIVIL DRAWING LIST

C000	COVER SHEET
C001	STANDARD NOTES
C210	EROSION & SEDIMENT CONTROL
C301	DRIVEWAY PLAN & LONG. SECTION
C310	PAVEMENT DETAILS
C401	DRAINAGE LAYOUT BASEMENT 2 LEVEL
C402	DRAINAGE LAYOUT GROUND LEVEL
C405	DRAINAGE DETAILS
C406	OSD DETAILS



LOCALITY PLAN
NTS

REVISIONS:					SCALE BAR			 van der Meer Consulting	CLIENT TIME & PLACE PTY LTD 74 KING STREET, NEWTOWN NSW 2042	PROJECT TITLE RESIDENTIAL DEVELOPMENT 35-43 BELGRAVE STREET MANLY, NSW 2095	DRAWING STATUS APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION									
											PROJECT LEADER AW		DESIGNER PS		SIGNATURE					
											DRAFTSPERSON LP		SCALE		DATE AS SHOWN		SHEET SIZE A1			
A FOR APPROVAL					YK	10.07.23			ARCHITECT SJB ARCHITECTS LEVEL 2 490 CROWN STREET, SURRY HILLS, NSW 2010	DRAWING TITLE COVER SHEET		JOB No. SY232-008		DRAWING No. C000		REVISION A				
No.					REVISION DESCRIPTION		DRAWN		DATE											



EROSION AND SEDIMENT NOTES

- B1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS SHOWN
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL 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 COUNCIL'S 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 IS TO 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 RUNOFF.
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM DEVICES SUCH THAT NO 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 OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- B5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- B6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- B7. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.
- B8. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B9. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL :
A) DOWNPIPES CONNECTED
B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- B10. SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS AND AFTER EACH RAINFALL EVENT.
- B11. EROSION & SEDIMENT CONTROL SIGNAGE AVAILABLE FROM COUNCIL MUST BE ATTACHED TO THE MOST PROMINENT AVAILABLE STRUCTURE AND BE VISIBLE AT ALL TIMES WHEN ENTERING THE SITE FOR THE DURATION OF CONSTRUCTION.

LEGEND

- STORMWATER SEDIMENT TRAPS AT ALL PROPOSED PIT INLETS
- TEMPORARY CONSTRUCTION VEHICLE EXIT
- SEDIMENT CONTROL FENCE
- STOCKPILE AREA
- SANDBAG KERB INLET SEDIMENT TRAP
- BOUNDARY
- BASEMENT EXTENTS

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
A	FOR APPROVAL	YK	10.07.23

SCALE BAR

0 1 2 3 4 5m 10m

SCALE 1:100

COPYRIGHT © THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF VAN DER MEER (NSW) PTY LTD. IT MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE AUTHORITY OF VAN DER MEER (NSW) PTY LTD. THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION PURPOSES ONLY. UNLESS SIGNED, FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED. DO NOT SCALE REDUCED SIZE DRAWINGS. ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY. THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION PURPOSES ONLY. UNLESS SIGNED, FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED. DO NOT SCALE REDUCED SIZE DRAWINGS. ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR

van der Meer Consulting

van der meer

LEVEL 6, 39 CHANDOS STREET
ST LEONARDS NSW 2065
Telephone 61-2-9436 0433 Fax 61-2-9436 1370

www.vandermeer.com.au
van der Meer (NSW) Pty Ltd
A.B.N. 56 158 266 301

CLIENT

TIME & PLACE PTY LTD
74 KING STREET, NEWTOWN NSW 2042

ARCHITECT

SJB ARCHITECTS
LEVEL 2 490 CROWN STREET, SURRY HILLS, NSW 2010

PROJECT TITLE

RESIDENTIAL DEVELOPMENT
35-43 BELGRAVE STREET
MANLY, NSW 2095

DRAWING TITLE

EROSION AND SEDIMENT CONTROL

DRAWING STATUS

APPROVAL ISSUE
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
AW	PS		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
LP	AS SHOWN	AS SHOWN	A1
JOB No.	DRAWING No.	REVISION	
SY232-008	C210		A

STORMWATER CONNECTION LEVELS TO EXISTING COUNCIL DRAINAGE
LOCATED ON WHISTLER STREET IS TO BE CONFIRMED PRIOR TO
COMMENCEMENT OF WORKS. CONTACT ENGINEER IN CASE OF
VARIATION

BELGRAVE STREET

GROUND FLOOR
FFL -0.165

BASEMENT 2

CANT

PLAN
SCALE 1:100



CLIENT

TIME & PLACE PTY LTD
74 KING STREET, NEWTOWN NSW 2042

ARCHITECT

SJB ARCHITECTS
LEVEL 2 490 CROWN STREET

PROJECT TITLE

RESIDENTIAL DEVELOPMENT
35-43 BELGRAVE STREET
MANLY, NSW 2095

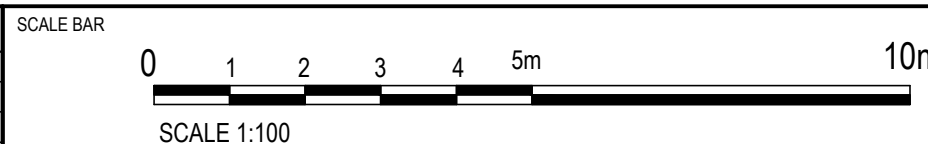
DRAWING TITLE

DRAINAGE LAYOUT BASEMENT 2 LEVEL

— R — R — EXISTING RMS UTILITIES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

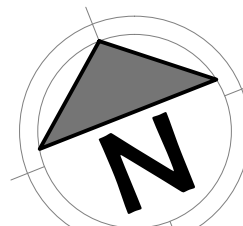
REVISIONS:			
A	FOR APPROVAL		
No.	REVISION DESCRIPTION	DRAWN	10.07.23
			DATE



COPYRIGHT © THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF VAN DER MEER (NSW) PTY LTD. IT MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE AUTHORITY OF VAN DER MEER (NSW) PTY LTD.

DISCLAIMER THIS DRAWING AND ITS CONTENTS ARE ELECTRONICALLY GENERATED, ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR

WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED
EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY.
NOTE
THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION
PURPOSES ONLY, UNLESS SIGNED. FIGURED DIMENSIONS TAKE
PRECEDENCE OVER SCALED. DO NOT SCALE REDUCED SIZE DRAWINGS.
VERIFY DIMENSIONS PRIOR TO COMMENCING ANY ON-SITE OR OFF-SITE
WORKS OR FABRICATION.
IF IN DOUBT - ASK.



LEVEL 6, 39 CHANDOS STREET
ST LEONARDS NSW 2065
Telephone 61-2-9436 0433 Fax 61-2-9436 1370

www.vandermeer.com.au
van der Meer (NSW) Pty Ltd
A.B.N. 56 158 266 301

CLIENT

TIME & PLACE PTY LTD
74 KING STREET, NEWTOWN NSW 2042

ARCHITECT

SJB ARCHITECTS
LEVEL 2 490 CROWN STREET

PROJECT TITLE

RESIDENTIAL DEVELOPMENT
35-43 BELGRAVE STREET
MANLY, NSW 2095

DRAWING TITLE

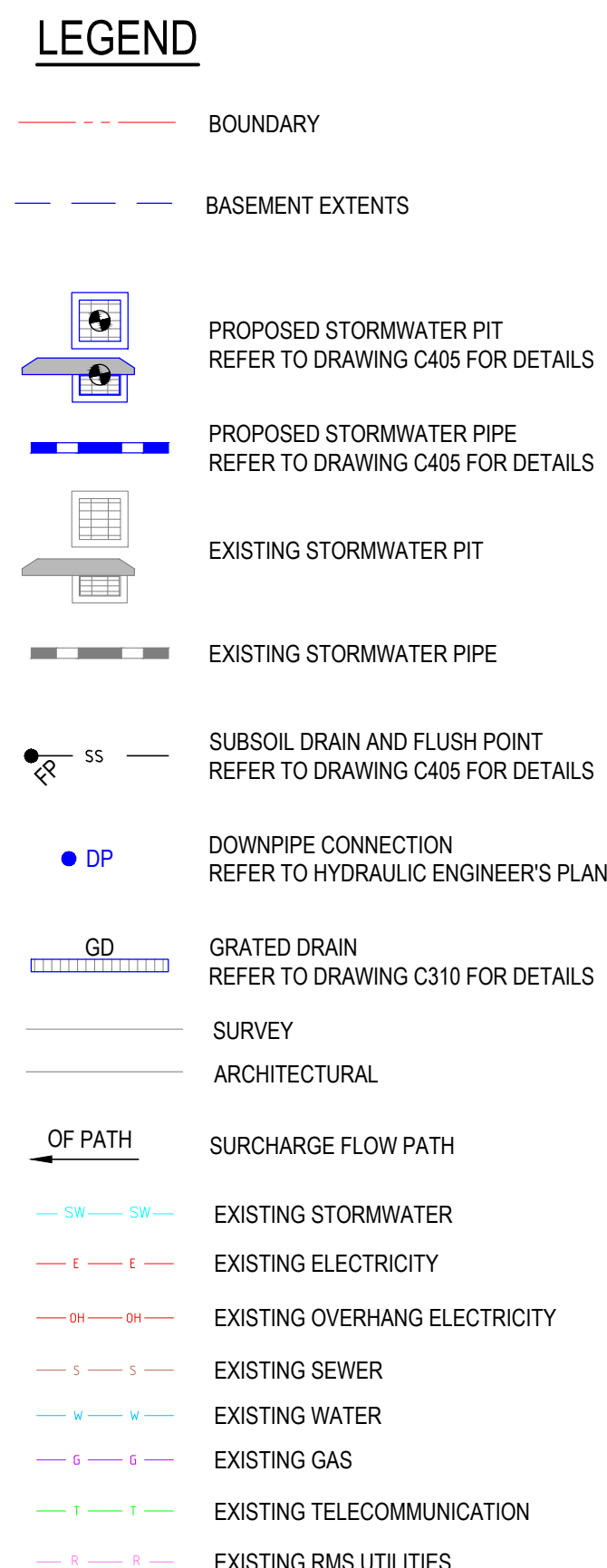
DRAINAGE LAYOUT BASEMENT 2 LEVEL

DRAWING STATUS
☐ New
☐ Revised
☐ Deleted
☐ Archived
☐ Other

APPROVAL ISSUE
NOT TO BE USED FOR CONSTRUCTION

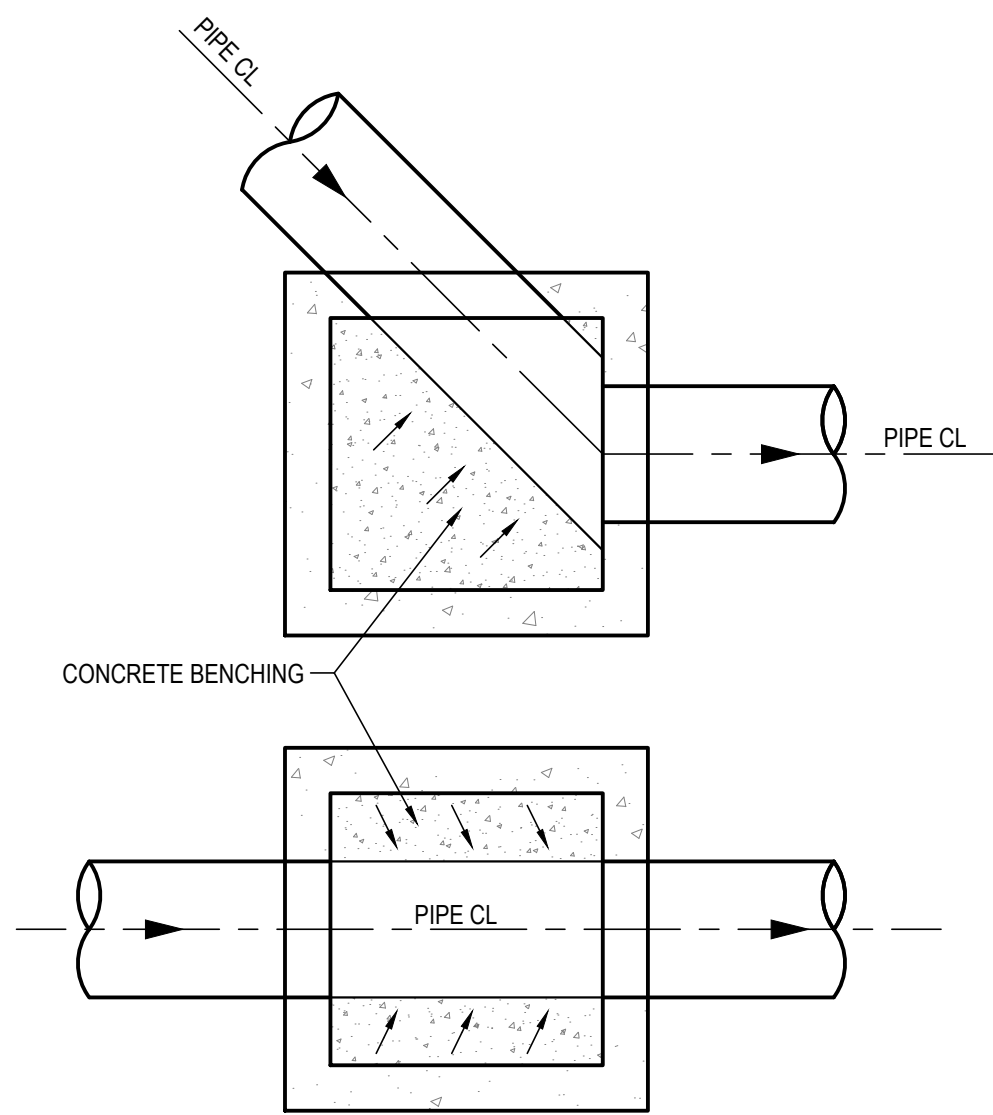
PROJECT LEADER AW	DESIGNER PS	SIGNATURE	
DRAFTSPERSON LP	SCALE AS SHOWN	DATE AS SHOWN	SHEET SIZE A1
JOB No. SY232-008		DRAWING No. C401	REVISION A

STORMWATER CONNECTION LEVELS TO EXISTING COUNCIL DRAINAGE
LOCATED ON WHISTLER STREET IS TO BE CONFIRMED PRIOR TO
COMMENCEMENT OF WORKS. CONTACT ENGINEER IN CASE OF
VARIATION

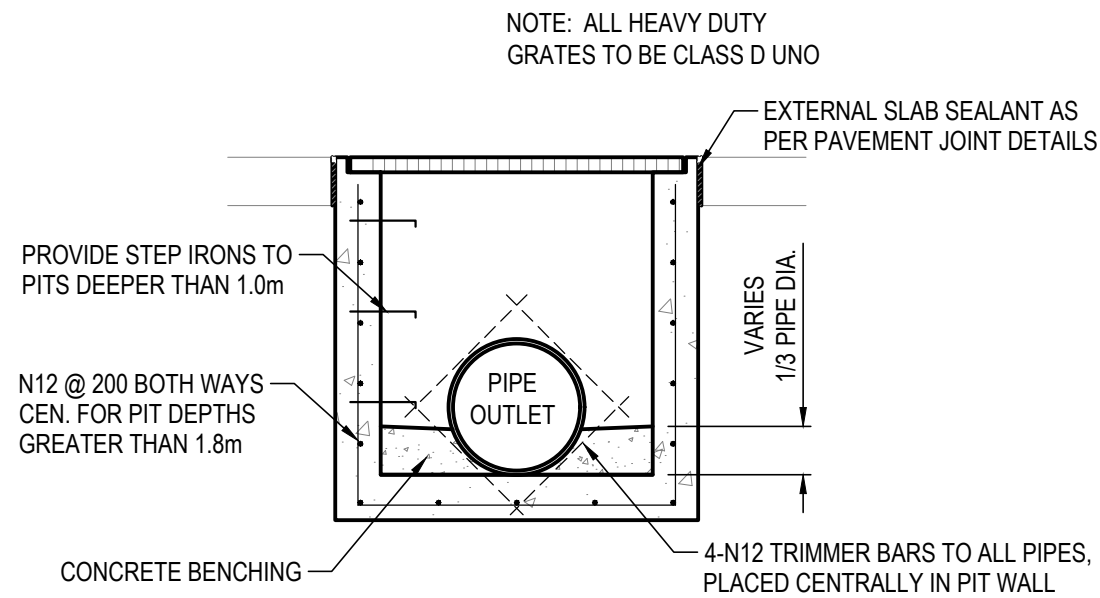


THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

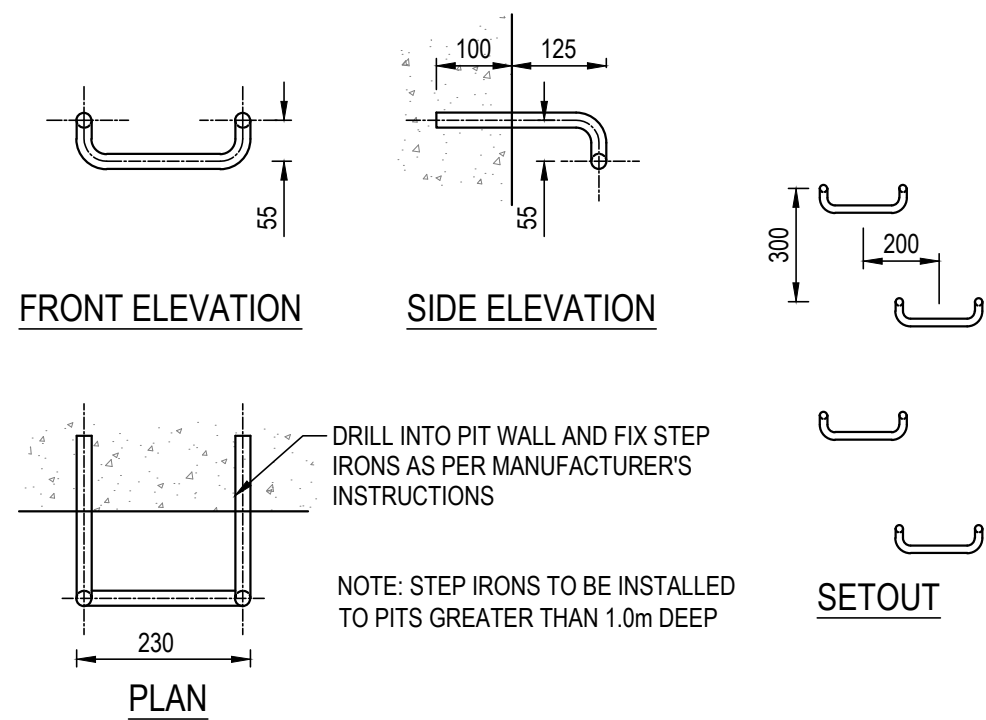
DRAWING STATUS			
APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
AW	PS		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
LP	AS SHOWN	AS SHOWN	A1
JOB No.	DRAWING No.		REVISION
SY232-008	C402		A



TYPICAL CONCRETE BENCHING
SCALE 1:25



TYPICAL INLET PIT & JUNCTION PIT
SCALE 1:25



TYPICAL STEP IRON DETAIL
NTS

PUMP CAPACITY CALCULATION:

A_p = CATCHMENT AREA (IMPERVIOUS & PERVIOUS) (m^2)
 T = STORM DURATION (hr)
 I = RAINFALL INTENSITY (mm/hr)
 C_p = COEFFICIENT OF RUNOFF (IMPERVIOUS & PERVIOUS)

$Q_{100YR/2hr}$ = INFLOW AT 100YR ARI, 2hr DURATION:

$Q_{100YR/2hr} = (CA + C_p A_p) \times I_{100YR/2hr}$
 $= (0.9 \times 0 + 0.43 \times 26) \times (47.5/1000)$
 $= 0.53 m^3/hr$

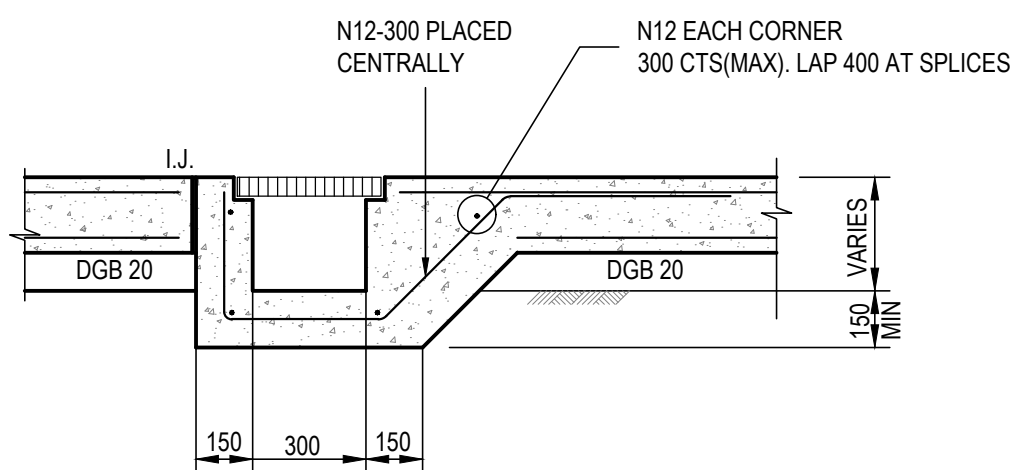
V , REQUIRED STORAGE

$V = Q \times T$
 $= 5.87 m^3/hr \times 2$
 $= 1.06 m^3$

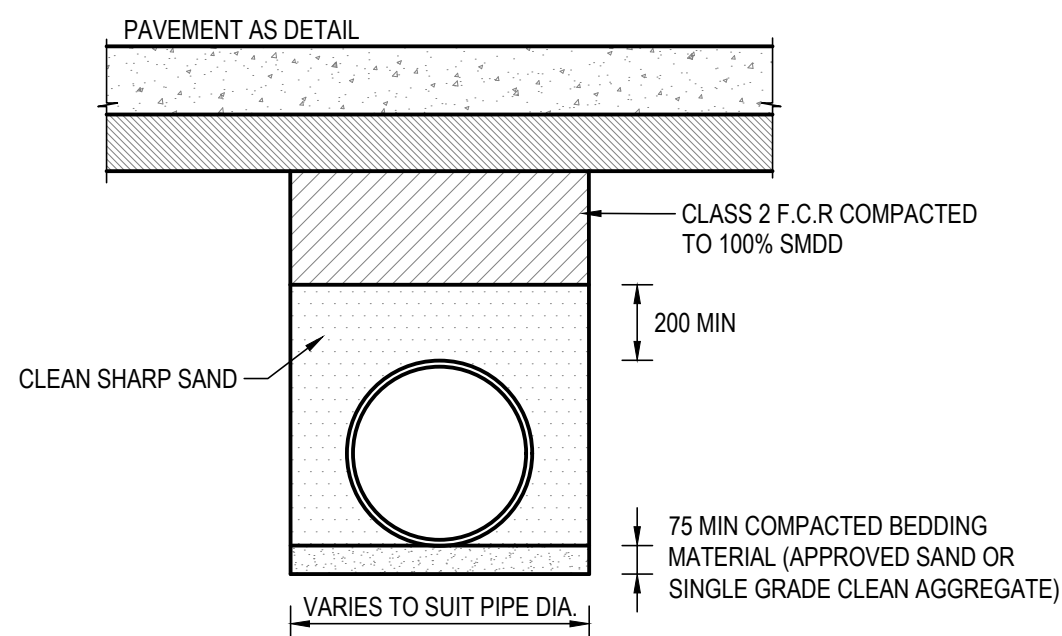
PUMP CAPACITY = MIN 10L/s
VOLUME PUMPED IN 30 MINUTES = 18m³

$V = 1.06 m^3 - 18 m^3 < 3 m^3$
(MIN 3m³ AS PER AS3500.3)

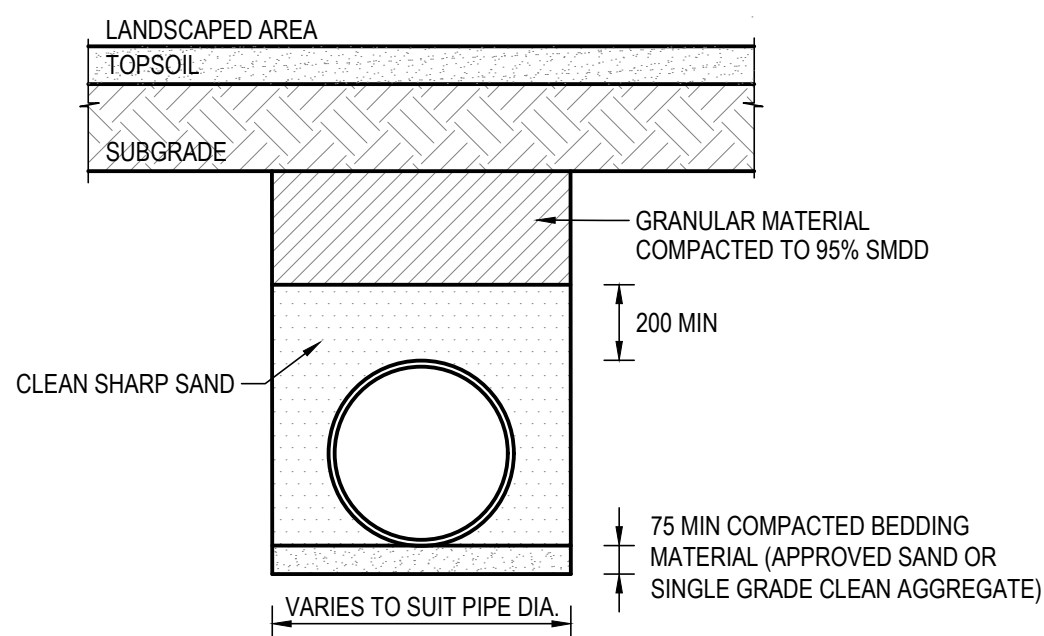
3.00m³ MINIMUM WET WELL STORAGE PROVIDED



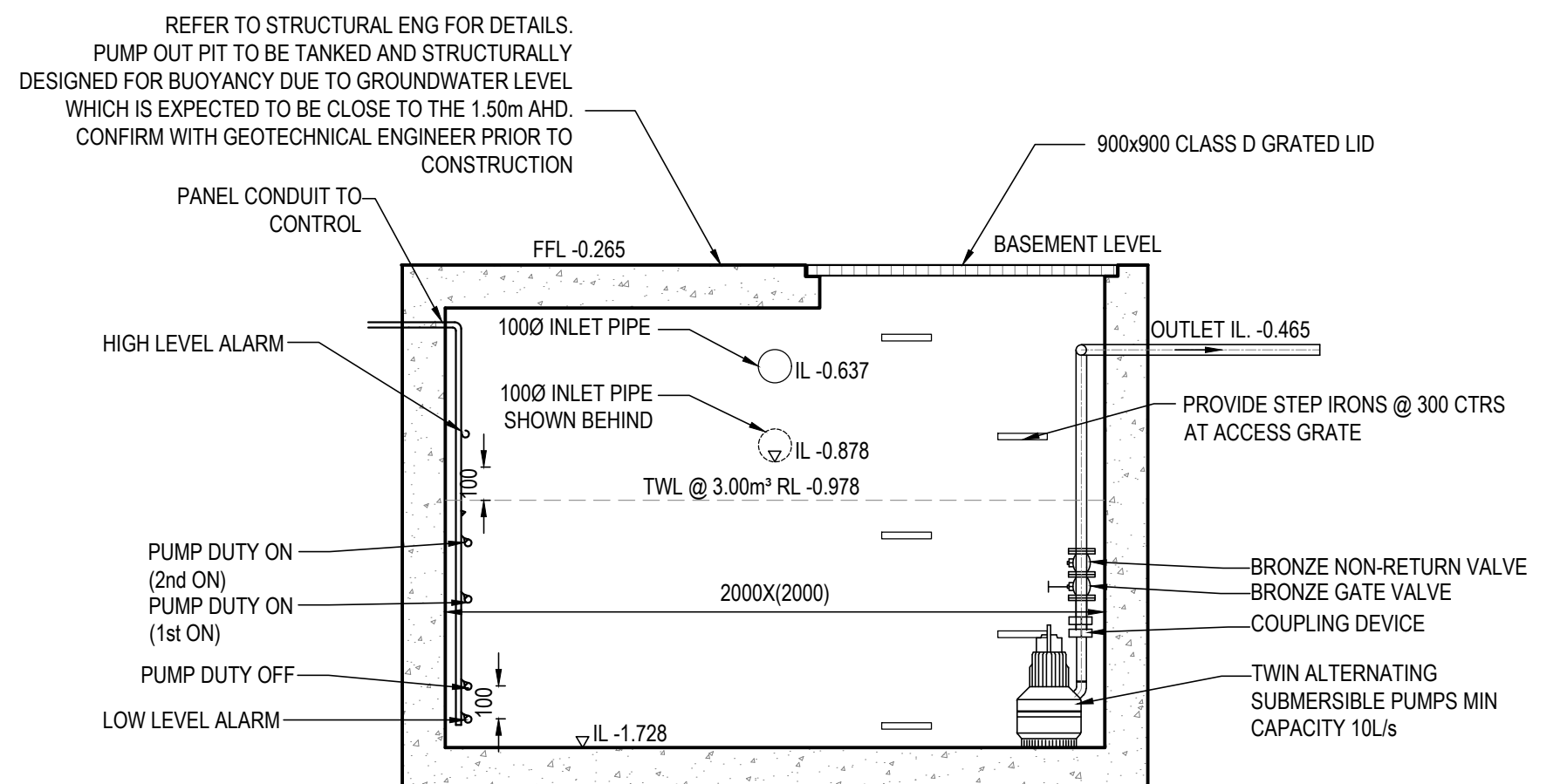
TYPICAL GRATED DRAIN DETAIL
SCALE 1:20



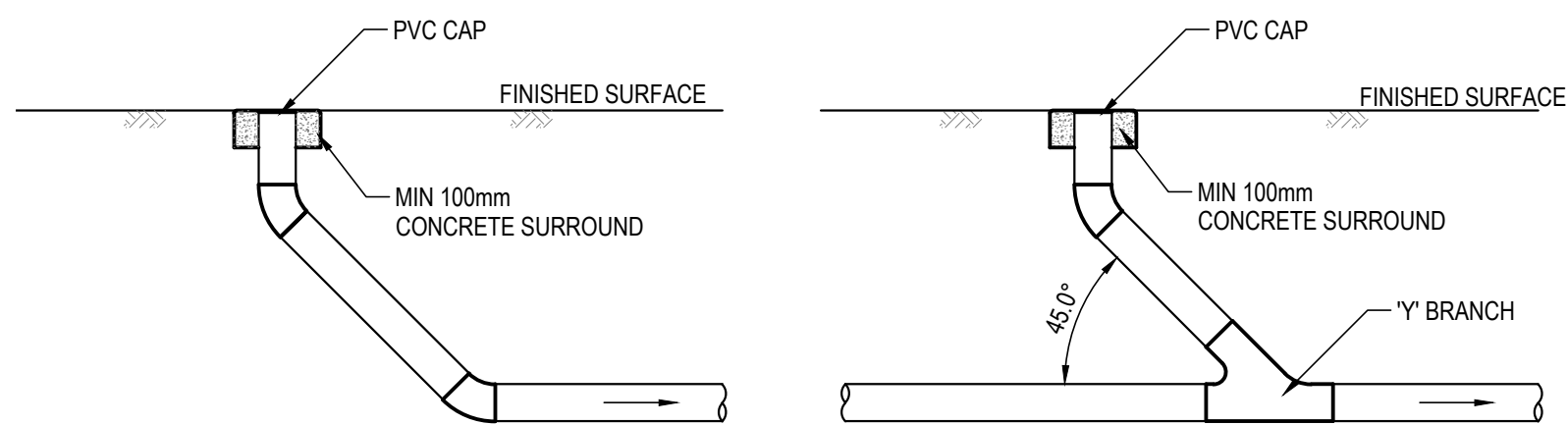
UNDER PAVEMENT PIPE BEDDING
NTS



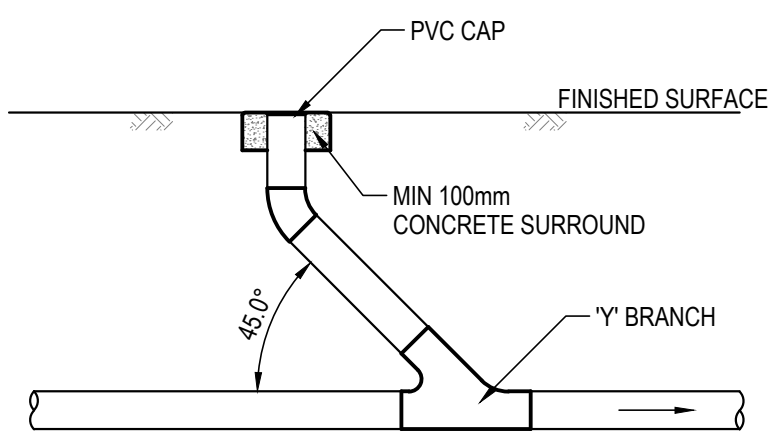
UNDER LANDSCAPING PIPE BEDDING
NTS



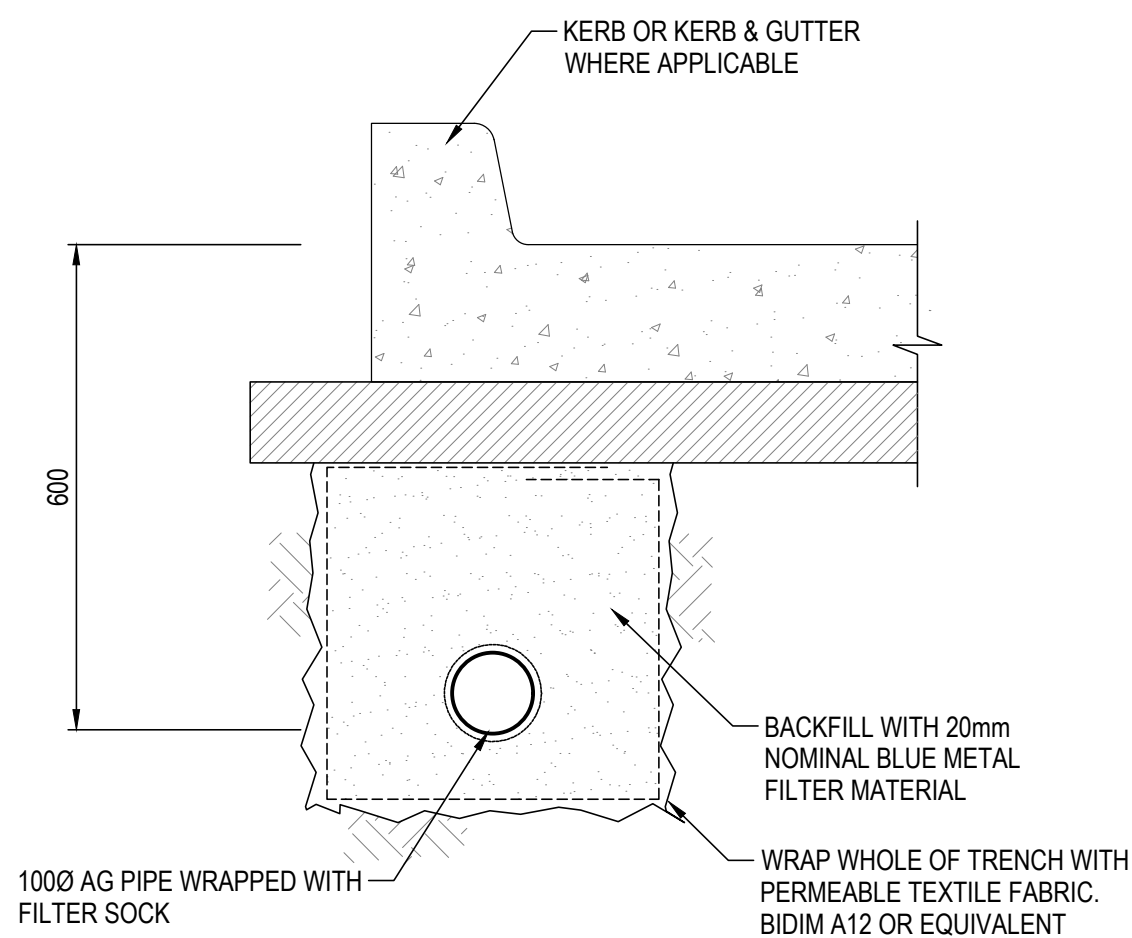
PIT A04 DETAIL
SCALE 1:20



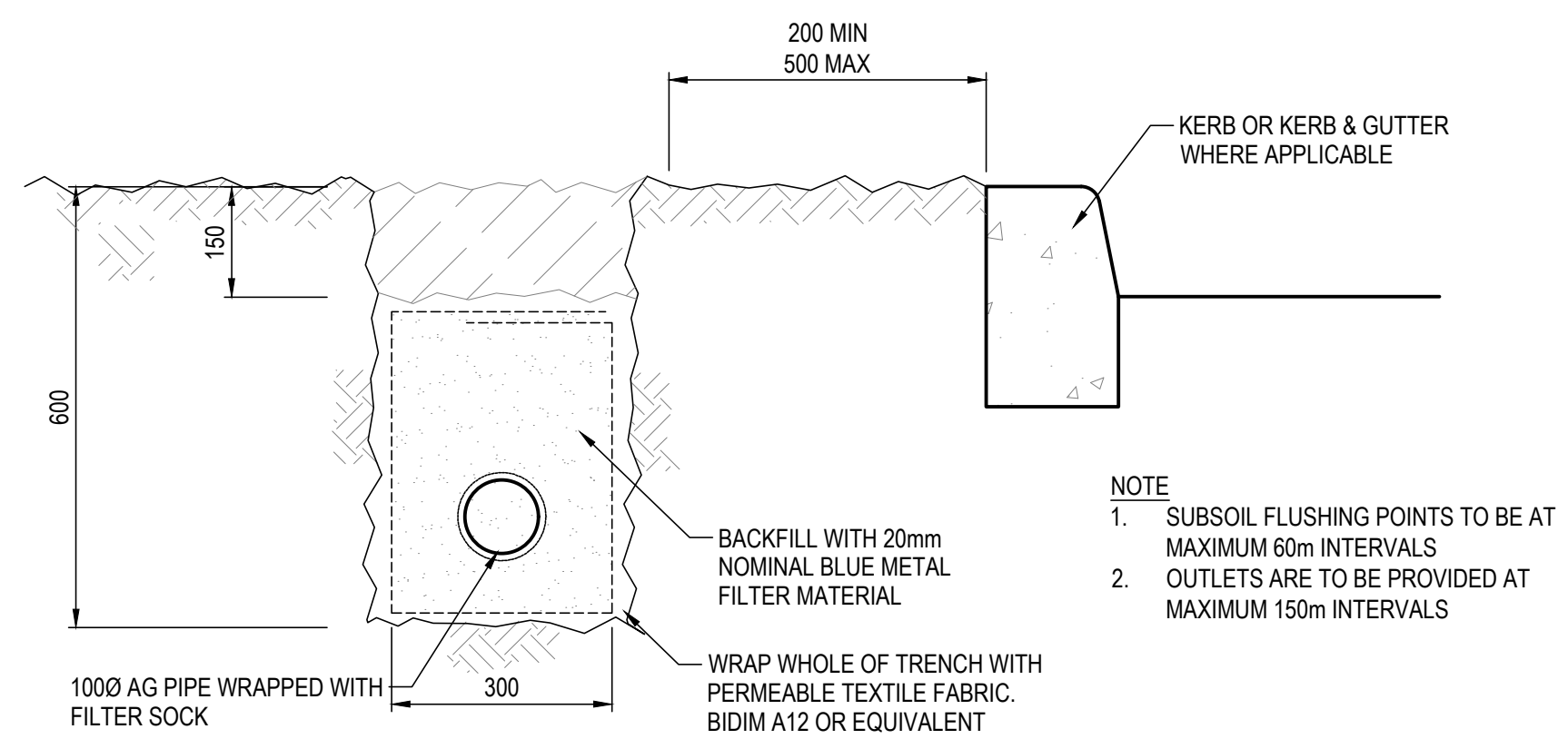
FLUSH POINT DETAIL
SCALE 1:20



FLUSH POINT DETAIL (INLINE)
SCALE 1:20



SUB-SOIL DRAIN DETAIL
SCALE 1:10



SUB-SOIL DRAIN DETAIL
SCALE 1:10

REVISIONS:			
No.	FOR APPROVAL	REVISION DESCRIPTION	DRAWN

SCALE BAR	0 1 2 3 4 5 1m 1.5 2m
SCALE 1:20	0 1 2 3 4 5 1m 1.5 2m
SCALE 1:25	0 1 2 3 4 5 1m 1.5 2m
COPYRIGHT © THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF VAN DER MEER (NSW) PTY LTD. IT MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE AUTHORITY OF VAN DER MEER (NSW) PTY LTD.	
DISCLAIMER: THIS DRAWING AND ITS CONTENTS ARE ELECTRONICALLY GENERATED. ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. VAN DER MEER (NSW) PTY LTD. WILL NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE USE OF THE DRAWING FOR OTHER THAN ITS INTENDED PURPOSE OR	
WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY. THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION PURPOSES ONLY. UNLESS SIGNED, FIGURED DIMENSIONING TAKE PRECEDENCE OVER SCALED. DO NOT SCALE REDUCED SIZE DRAWINGS. VERIFY DIMENSIONS PRIOR TO COMMENCING ANY ON-SITE OR OFF-SITE WORKS OR FABRICATION. IF IN DOUBT - ASK.	

van der Meer Consulting

van der meer

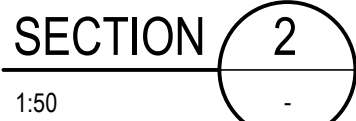
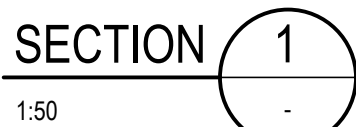
LEVEL 6, 39 CHANDOS STREET
ST LEONARDS NSW 2065
Telephone 61-2-9436 0433 Fax 61-2-9436 1370

www.vandermeer.com.au
van der Meer (NSW) Pty Ltd
A.B.N. 56 158 266 301

CLIENT	TIME & PLACE PTY LTD 74 KING STREET, NEWTOWN NSW 2042
ARCHITECT	SJB ARCHITECTS LEVEL 2 490 CROWN STREET, SURRY HILLS, NSW 2010

PROJECT TITLE	RESIDENTIAL DEVELOPMENT 35-43 BELGRAVE STREET MANLY, NSW 2095
DRAWING TITLE	DRAINAGE DETAILS

DRAWING STATUS			
APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
AW	PS		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
LP	AS SHOWN	AS SHOWN	A1
JOB No.	DRAWING No.	REVISION	
SY232-008	C405		A



NOTE: SCREEN AREA INCLUDES SIDES WHERE APPLICABLE

NOTE:

1. VALUES AS PER DRAINS MODELLING
2. REFER TO DRAWING SHEETS C401 AND C402 FOR FURTHER DETAILS.

SCALE BAR: 1 2 3 4 5m

SCALE 1:50
1 2 3 4 5 1m 1.5 2m

SCALE 1:25

COPYRIGHT ©
THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF VAN DER MEER
ENVIRONMENTAL CONSULTING PTY LTD. IT MUST NOT BE REPRODUCED, COPIED OR USED WITHOUT
THE WRITTEN PERMISSION OF VAN DER MEER ENVIRONMENTAL CONSULTING PTY LTD.
DISCLAIMER
PREPARATION AND THIS DRAWING ARE ELECTRONICALLY GENERATED
AND ARE CONFIDENTIAL AND MAY ONLY BE USED FOR THE PURPOSE FOR
WHICH THEY WERE DESIGNED. OTHER THAN VAN DER MEER ENVIRONMENTAL CONSULTING PTY LTD. WILL
NOT ACCEPT RESPONSIBILITY FOR ANY CONSEQUENCES ARISING FROM THE
USE OF THE DRAWING OR OTHER THAN ITS INTENDED INTENDED PURPOSE.

WHERE THE DRAWING HAS BEEN ALTERED, AMENDED OR CHANGED
EITHER MANUALLY OR ELECTRONICALLY BY ANY THIRD PARTY
THIS IS AN UNCONTROLLED DOCUMENT ISSUED FOR INFORMATION
PURPOSES ONLY. UNLESS SPECIFICALLY REQUESTED, PRELIMINARY
PRELIMINARY OR PRELIMINARY PRELIMINARY PRELIMINARY PRELIMINARY
PRELIMINARY PRELIMINARY PRELIMINARY PRELIMINARY PRELIMINARY
WORKS OR FABRICATION.



PROJECT TITLE	RESIDENTIAL DEVELOPMENT 35-43 BELGRAVE STREET MANLY, NSW 2095
DRAWING TITLE	OSD DETAILS

DRAWING STATUS			
APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER AW	DESIGNER PS	SIGNATURE	
DRAFTSPERSON LP	SCALE AS SHOWN	DATE AS SHOWN	SHEET SIZE A1
JOB NO. SY232-008		DRAWING NO. C406	REVISION A