

PROPOSED DEVELOPMENT

STORMWATER_241012_12 THE STRAND, DEE WHY

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GENERAL NOTES

- THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS.
- WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES.
- SUBSOIL DRAINAGE SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL ENGINEER. SUBSOIL DRAINAGE SHALL BE CONNECTED INTO THE STORMWATER SYSTEM IDENTIFIED ON THESE PLANS.

STORMWATER CONSTRUCTION NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500 (CURRENT EDITION) AND THE REQUIREMENTS OF THE LOCAL COUNCIL'S POLICIES AND CODES.
- THE MINIMUM SIZES OF THE STORMWATER DRAINS SHALL NOT BE LESS THAN DN90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY AND SHALL BE SEWER GRADE uPVC TYPE SN8 MIN.
- THE MINIMUM GRADIENT OF STORMWATER DRAINS SHALL BE 1%, UNLESS NOTED OTHERWISE.
- COUNCIL'S TREE PRESERVATION ORDER IS TO BE STRICTLY ADHERED TO. NO TREES SHALL BE REMOVED UNTIL PERMIT IS OBTAINED.
- PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY AT THE CLIENT'S EXPENSE.
- ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS FOR ALL PITS OVER 1.2m DEEP.
- MAKE SMOOTH JUNCTION WITH ALL EXISTING WORK.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE NOR CORRECT. IT IS THE CLIENT & CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PRIOR TO CONSTRUCTION.
- ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY SYJ CONSULTING ENGINEERS PRIOR TO THEIR COMMENCEMENT.

SEDIMENT AND EROSION CONTROL

- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH LANDCOM'S SOILS AND CONSTRUCTION 'MANAGING URBAN STORMWATER'.
- SEDIMENT AND EROSION CONTROL SHALL BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- SOIL AND SEDIMENT CONTROL DEVICES SHALL BE AS SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM SUCH DEVICES BEFORE 50% CAPACITY IS USED. ALL THE ACCUMULATED SEDIMENT SHALL BE RE-SPREAD OR REMOVED IN ACCORDANCE WITH THE SUPERINTENDENTS INSTRUCTIONS. THE DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE BEEN REHABILITATED TO A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
- NO DISTURBANCE OF SITE PERMITTED OTHER THAN THE IMMEDIATE AREA OF THE WORKS.
- COUNCIL TO RE-INSPECT TREES PRIOR TO THE CONSTRUCTION WORKS COMMENCING.
- NO TREES ARE TO BE REMOVED WITHOUT PRIOR COUNCIL CONSENT.
- VEHICULAR ACCESS TO THE SITE SHALL BE CONTROLLED THROUGH THE ACCESS POINTS IDENTIFIED ON THE DRAWINGS. VEHICLES NOT REQUIRED IN THE PERFORMANCE OF THE WORKS SHALL BE PARKED OFF SITE AWAY FROM DISTURBED AREAS.
- A VEHICLE WASHDOWN BAY INCLUDING A 25mmØ HOSE SHALL BE PROVIDED.
- THESE PLANS ARE SUPPLEMENTARY TO THE CONTRACTORS EMP FOR CONSTRUCTION AND SHALL BE READ IN CONJUNCTION WITH THE BUILDING CONTRACTORS E&SC PLANS
- THE CONTRACTOR SHALL ENSURE TEMPORARY CONTROLS DO NOT DAMAGE EXISTING STRUCTURES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
- ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED FOLLOWING EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE.
- THE CONTRACTOR SHALL INFORM ALL SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF THE DAYS ACTIVITIES.
- THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAYS WORK.
- NOMINATED UNDISTURBED AREAS SHALL BE BARRICADED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- PUBLIC ROADS ARE TO BE SWEEPED FREE OF DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES. SWEEPING SHALL BE UNDERTAKEN AT A MINIMUM TWICE WEEKLY.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED ON EXISTING ACCESS TRACKS OR ROADWAYS SO AS NOT TO ENCROACH ON TRAFFIC. ALL EROSION CONTROL MEASURES PLACED SHALL BE CLEARLY IDENTIFIABLE DURING BOTH DAY AND NIGHT. EROSION CONTROL MEASURES SHALL BE COORDINATED WITH THE CONTRACTORS TRAFFIC MANAGEMENT PLANS IN ORDER TO LIMIT 'CLUTTERING' OF THE EXISTING 'TRAFFICABLE AREAS.
- PROVIDE 150mm TOPSOIL WITH TURF OR GRASS SEEDING ON ALL BATTERS & DISTURBED AREAS.
- TURFED AREAS ADJACENT TO CONSTRUCTION AREA ARE TO BE MAINTAINED TO PROVIDE A VEGETATED BUFFER STRIP.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL PRIOR TO EXCAVATION OR FILLING. TOPSOIL SHALL BE RESPREAD ON THE COMPLETION OF EARTHWORKS.
- THE CONTRACTOR SHALL STABILISE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS.
- THE CONTRACTOR SHALL INSTALL A MIN. 300mm WIDE STRIP OF TURF BEHIND THE KERB.
- THE CONTRACTOR SHALL PROVIDE A MIN. 1m WIDE TURFING AROUND ALL SURFACE INLET PITS.



SITE LOCALITY PLAN
NOT TO SCALE

D	ISSUE FOR DA SUBMISSION	J.S.	L.L.	13/05/25
C	ISSUE FOR DA SUBMISSION	J.S.	L.L.	23/04/25
B	ISSUE FOR COORDINATION	J.S.	L.L.	09/04/25
A	ISSUE FOR COORDINATION	J.S.	L.L.	13/06/25

Rev	Description	Eng	Draft	Date
Client				

Project

12 THE STRAND
DEE WHY

Sheet Subject

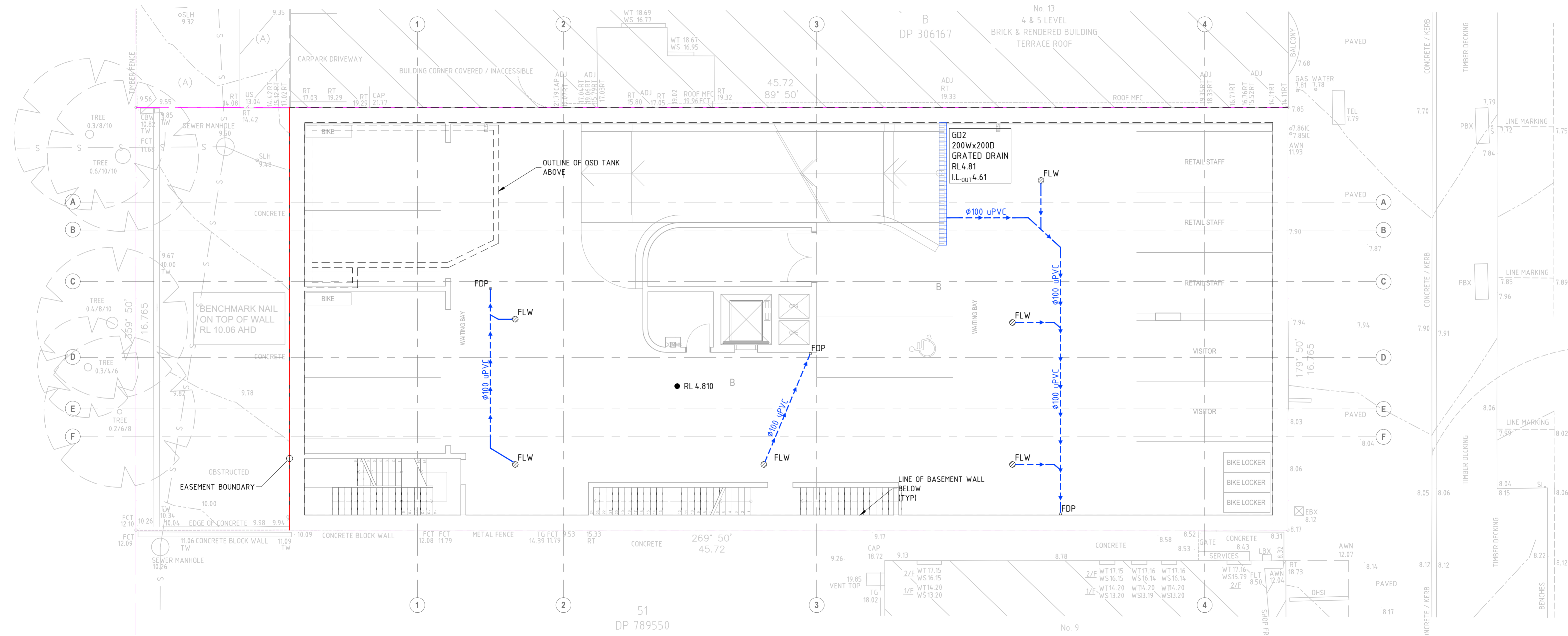
COVER PAGE

Architect

Structural Engineer

SYJ CONSULTING ENGINEERS
STRUCTURAL / CIVIL / FACADE
Suite 804A, 1-5 Railway St,
Chatswood NSW 2067
M: (02) 9411 3556
E: jack.shi@syjeng.com.au
W: www.syjeng.com.au

Scale : A1 As indicated	Drawn L.L.	Authorised J.S.
Job No 241012	Drawing No D00	Revision D



LEGENDS	
	DENOTES PROPOSED STORMWATER TO OSD
	DENOTES PROPOSED STORMWATER TO RWT
	DENOTES PROPOSED STORMWATER BYPASSING OSD
	DENOTES SUBSOIL DRAINAGE LINE
	DENOTES PIPE OVERCROSSING (MIN 150mm CLEARANCE)
	DENOTES ROOF GUTTER DOWNPIPE
	DENOTES RAINWATER OUTLET
	DENOTES FLOOR WASTES
	DENOTES FLUSH POINT
	DENOTES DESIGN SURFACE LEVELS
	DENOTES EXISTING SURFACE LEVELS
	DENOTES DESIGN FLOOR FINISH LEVELS
	DENOTES INLET INVERT LEVELS
	DENOTES OUTLET INVERT LEVELS
	DENOTES PIT INVERT LEVELS
	DENOTES SURFACE FLOW DIRECTION
	DENOTES PROPOSED OSD STORAGE
	DENOTES AREA BYPASSING OSD
	DENOTES MASONRY RETAINING WALL TO STRUCTURAL ENGINEER'S DETAILS
	DENOTES SEDIMENT FENCE

BASEMENT 01 STORMWATER MANAGEMENT PLAN

1:100

MEMBER SCHEDULE	
MARK	SIZE/TYPE
RWO	RAINWATER OUTLET WITH Ø150 GRATE COVER
FLW	FLOOR WASTE WITH Ø150 GRATE COVER
PD	PLANTER DRAIN

PIPE NOTES:

Ø65 uPVC AT MIN. 1% FALL
Ø90 uPVC AT MIN. 1% FALL
Ø100 uPVC AT MIN. 1% FALL
Ø150 uPVC AT MIN. 1% FALL
Ø225 uPVC AT MIN. 0.5% FALL
Ø300 uPVC AT MIN. 0.4% FALL
UNLESS NOTED OTHERWISE

STORMWATER NOTES

- ALL PIPES TO BE Ø100mm UNLESS NOTED OTHERWISE.
- ALL PIPES TO BE uPVC UNLESS NOTED OTHERWISE.
- ALL PIPES TO BE LAYED AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE.
- ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- ALL PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
- ALL DOWN PIPES TO BE Ø100mm UNLESS NOTED OTHERWISE.
- DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE CLEANING EYES AT ALL DOWNPIPES UNO.
- ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- ALL LEVELS SHOWN ARE TO AHD.
- ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- EXCAVATION OF TRENCHES ADJACENT TO TREES TO BE CARRIED OUT USING HAND TOOLS ONLY.
- ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.
- THE FOLLOWING ABBREVIATION DENOTES:
FFL - FINISHED FLOOR LEVEL
INV - INVERT

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Project

12 THE STRAND

DEE WHY

Sheet Subject

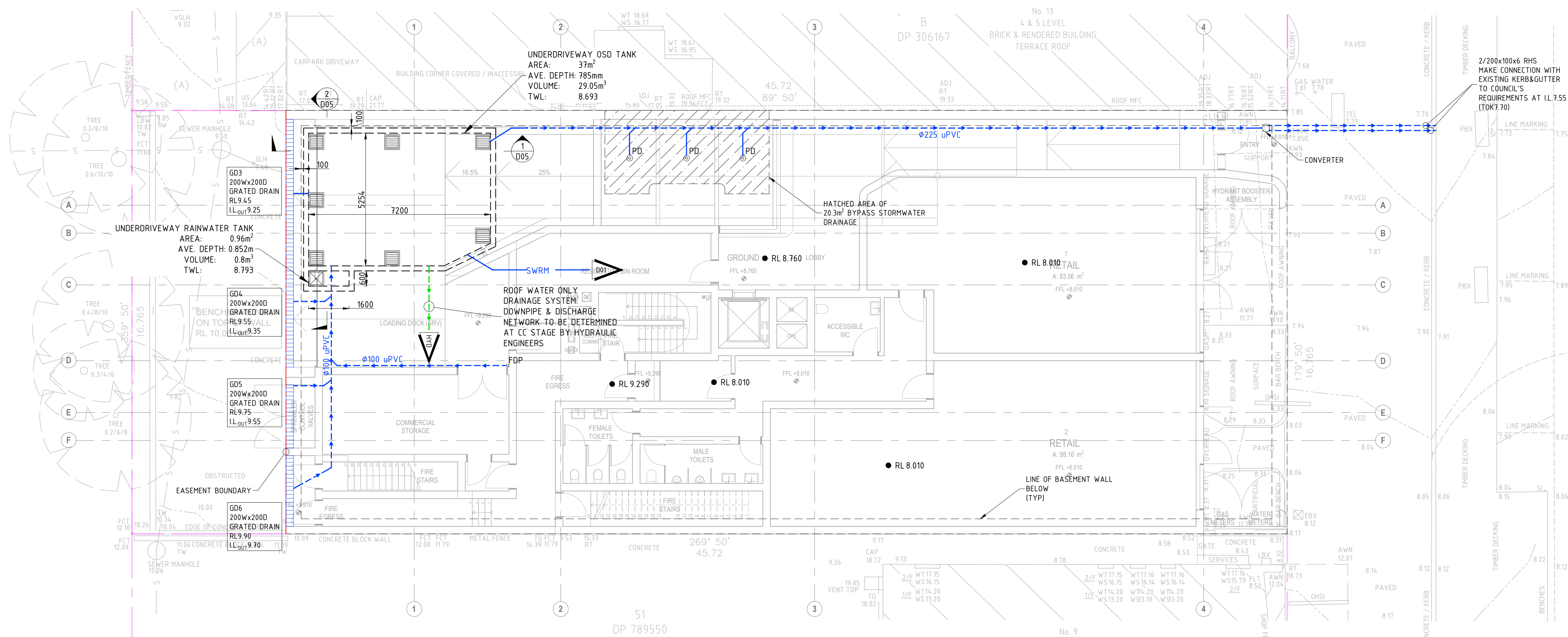
BASEMENT 01 STORMWATER MANAGEMENT PLAN

Architect

Structural Engineer

Suite 804A, 1-5 Railway St, Chatswood NSW 2067
M: (02) 9411 3556
E: jack.shi@syjeng.com.au
W: www.syjeng.com.au

Scale : A1	Drawn L.L.	Authorised J.S.
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241012	D02	D



SITE STORMWATER MANAGEMENT PLAN

1:100

MEMBER SCHEDULE	
MARK	SIZE/TYPE
RWO	RAINWATER OUTLET WITH Ø150 GRATE COVER
FLW	FLOOR WASTE WITH Ø150 GRATE COVER
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PIPE NOTES:

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 Ø300 uPVC AT MIN. 0.4% FALL
 UNLESS NOTED OTHERWISE

STORMWATER NOTES

4. ALL PIPES TO BE Ø100mm UNLESS NOTED OTHERWISE.
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7. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY COMPACTED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
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9. ALL DOWN PIPES TO BE Ø100mm UNLESS NOTED OTHERWISE.
10. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
11. PROVIDE CLEANING EYES AT ALL DOWNPIPES U.N.O.
12. ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARD.
13. ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
14. ALL LEVELS SHOWN ARE TO AHD.
15. ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
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19. THE FOLLOWING ABBREVIATION DENOTES:
FFL - FINISHED FLOOR LEVEL
INV - INVERT

DESIGN SUMMARY:

LGA: NORTHERN BEACHES COUNCIL
STORMWATER REGION: REGION 2 – CENTRAL STORMWATER REGION

ACCORDING NORTHERN BEACHES COUNCIL *WATER MANAGEMENT FOR DEVELOPMENT POLICY*
SECTION 9.3.2, OSD TO BE DESIGNED IN ACCORDANCE WITH 'SIMPLIFIED METHOD' IN SECTION
9.3.2.4.

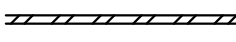
SITE AREA: 766.4m²

SITE IMPERVIOUS RATIO: 87%

IN ACCORDANCE WITH TABLE A8-2:

SITE SSR: 28.92m³

SITE PSD: 20L/s

LEGENDS	
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	DENOTES PROPOSED STORMWATER TO RWT
	DENOTES PROPOSED STORMWATER BYPASSING OSD
	DENOTES SUBSOIL DRAINAGE LINE
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	DENOTES RAINWATER OUTLET
	DENOTES FLOOR WASTES
	DENOTES FLUSH POINT
● RL 27.6	DENOTES DESIGN SURFACE LEVELS
● RL 42.5	DENOTES EXISTING SURFACE LEVELS
● FFL 42.5	DENOTES DESIGN FLOOR FINISH LEVELS
	DENOTES INLET INVERT LEVELS
	DENOTES OUTLET INVERT LEVELS
	DENOTES PIT INVERT LEVELS
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	DENOTES SEDIMENT FENCE

[illegible]

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Project _____

12 THE STRAND
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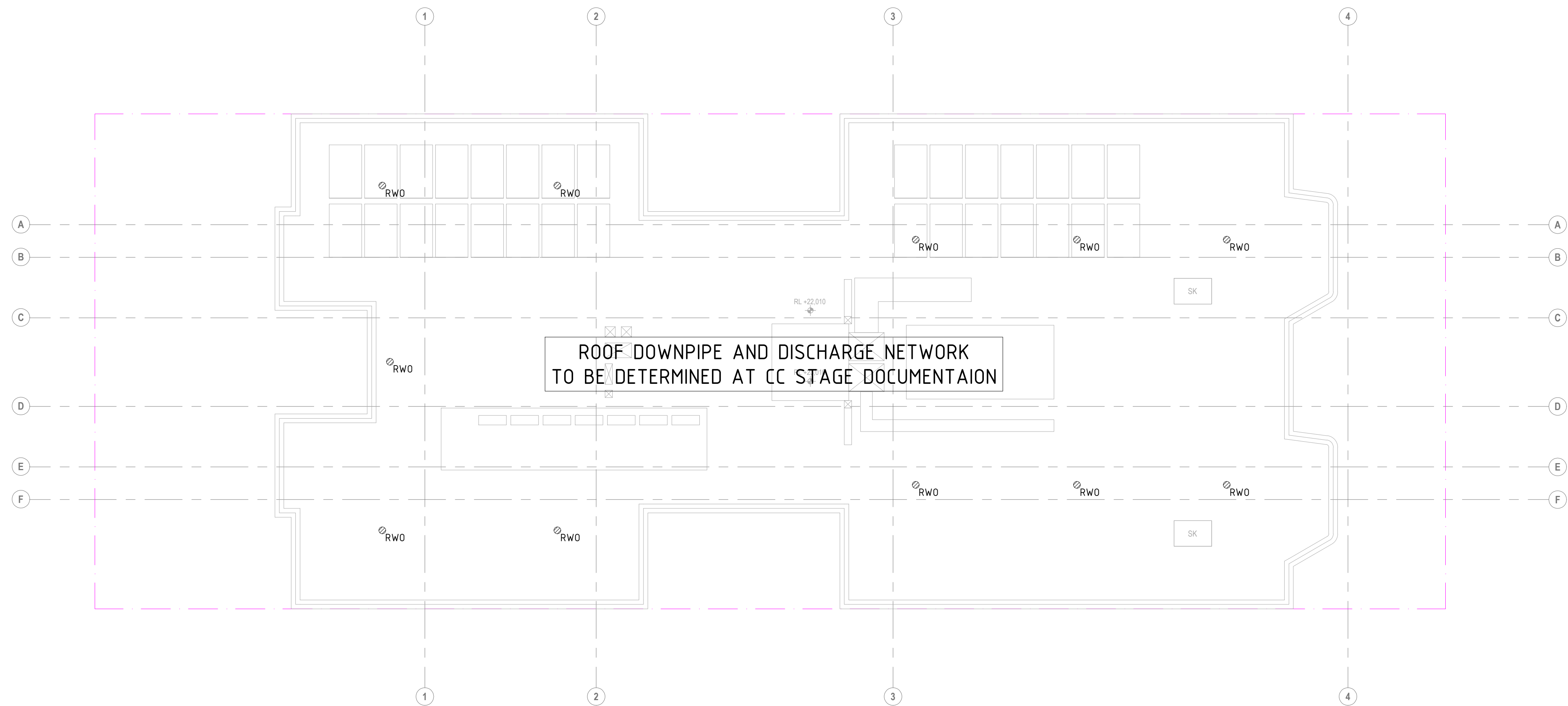
Sheet	Subject
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SITE STORMWATER MANAGEMENT PLAN

Architect

Structural Engineer

FIRST FLOOR DRAINAGE PLAN
1:100



ROOF DRAINAGE PLAN
1:100

	DENOTES PROPOSED STORMWATER TO OSD
	DENOTES PROPOSED STORMWATER TO RWT
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● FFL 42.5	DENOTES DESIGN FLOOR FINISH LEVELS
IL _{IN}	DENOTES INLET INVERT LEVELS
IL _{OUT}	DENOTES OUTLET INVERT LEVELS
IL _{PIT}	DENOTES PIT INVERT LEVELS
	DENOTES SURFACE FLOW DIRECTION
	DENOTES PROPOSED OSD STORAGE
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	DENOTES SEDIMENT FENCE

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MARK	SIZE/TYPE
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- ### STORMWATER NOTES
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 3. ALL PIPES TO BE LAYED AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE.
 4. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
 5. ALL PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
 6. ALL DOWN PIPES TO BE $\phi 100\text{mm}$ UNLESS NOTED OTHERWISE.
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Project

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FIRST FLOOR DRAINAGE PLAN
& ROOF DRAINAGE PLAN

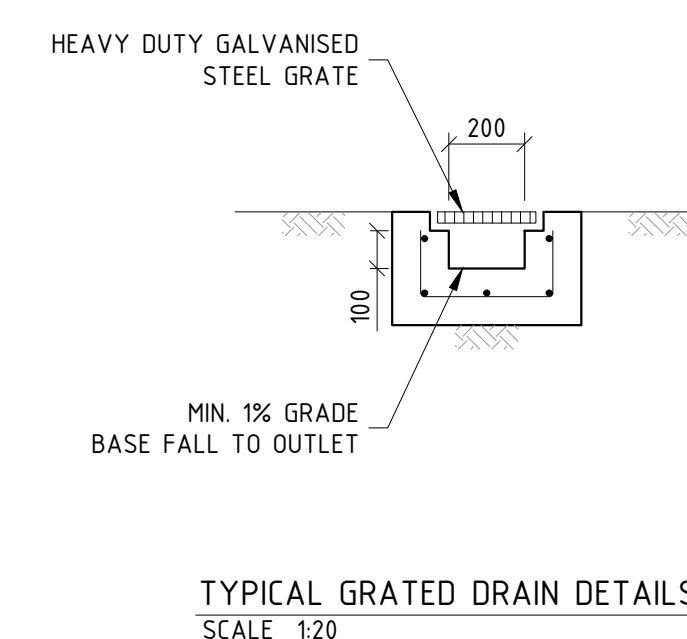
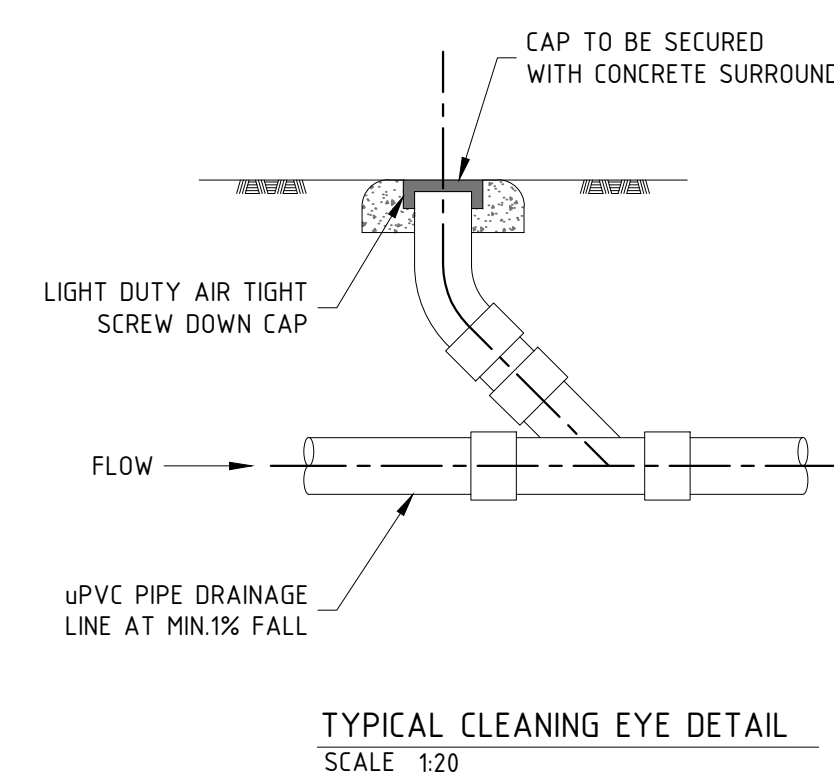
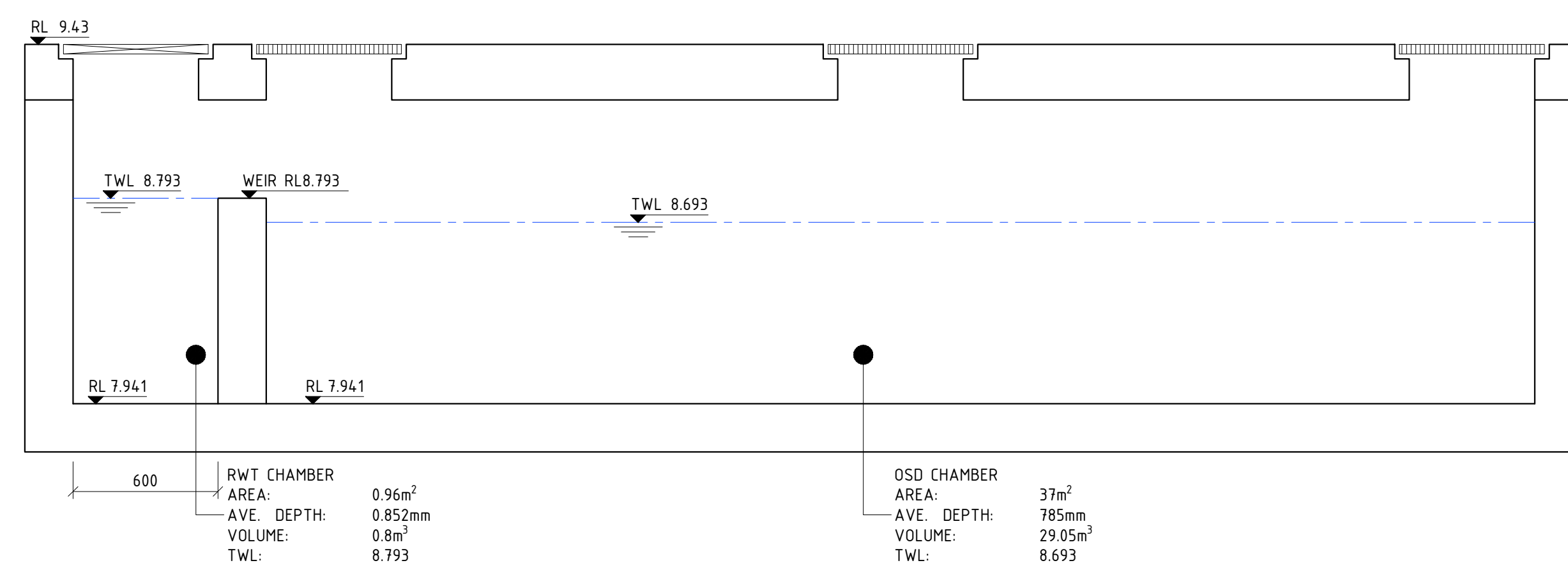
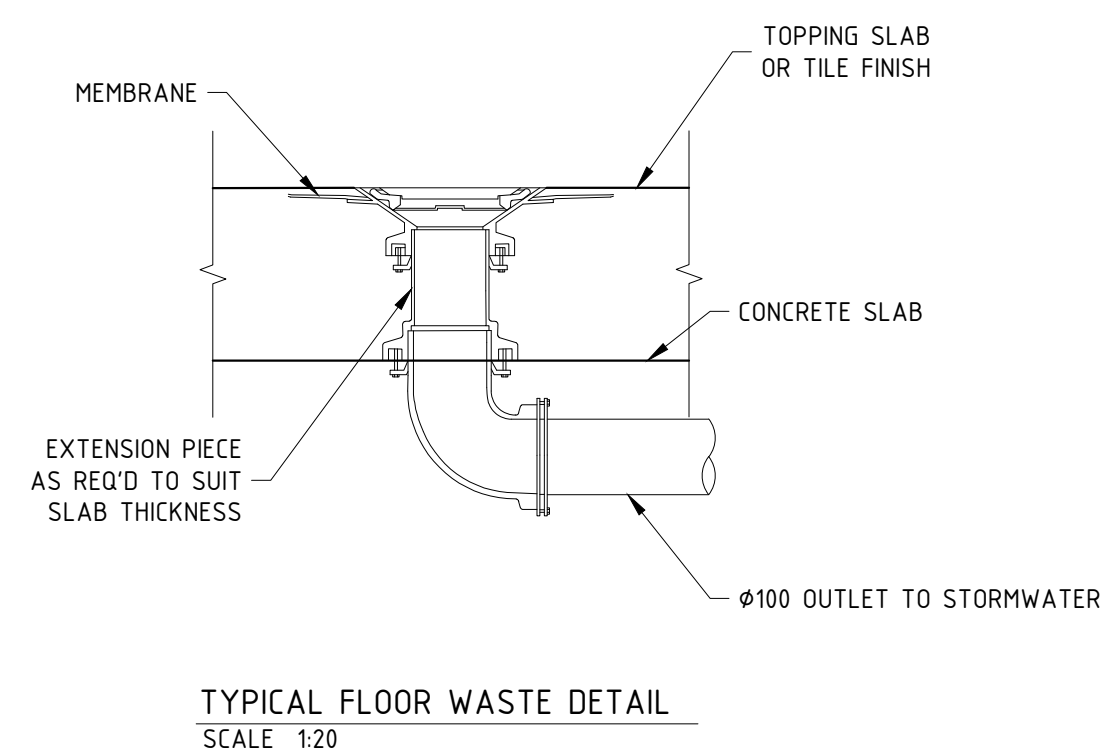
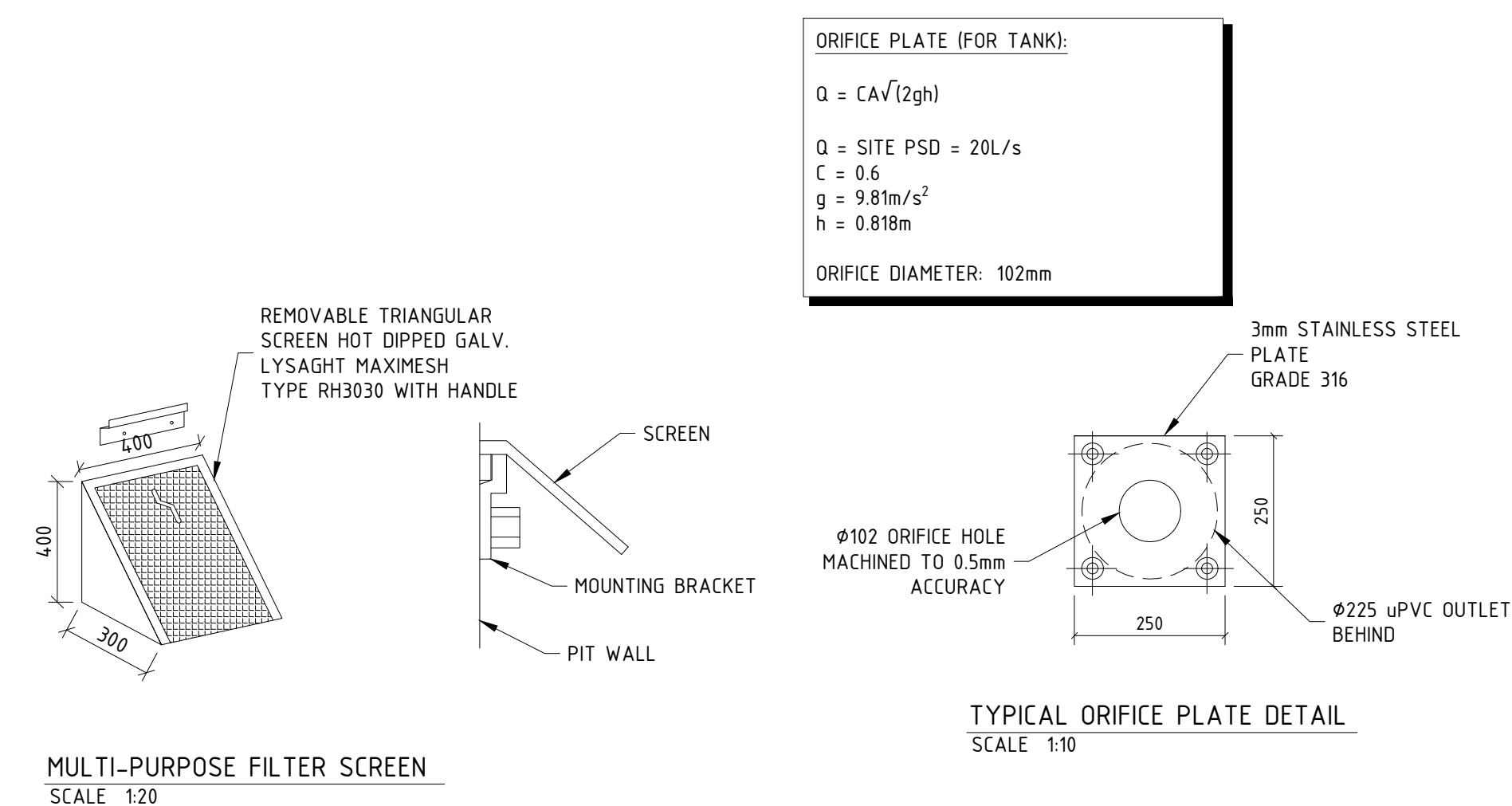
Architect

Structural Engineer



Scale : A1	Drawn	Authorised
As	L.L.	J.S.

Job No	Drawing No	Revision
241012	D04	D

Client _____

Project

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Sheet Subject

STORMWATER DETAILS

Architect

Structural Engineer

 **SYJ CONSULTING ENGINEERS**
STRUCTURAL | CIVIL | FACADE

Suite 604A, 1-5 Railway St,
Chatswood NSW 2067
M: (02) 9411 3556
e: jack.shi@syjeng.com.au
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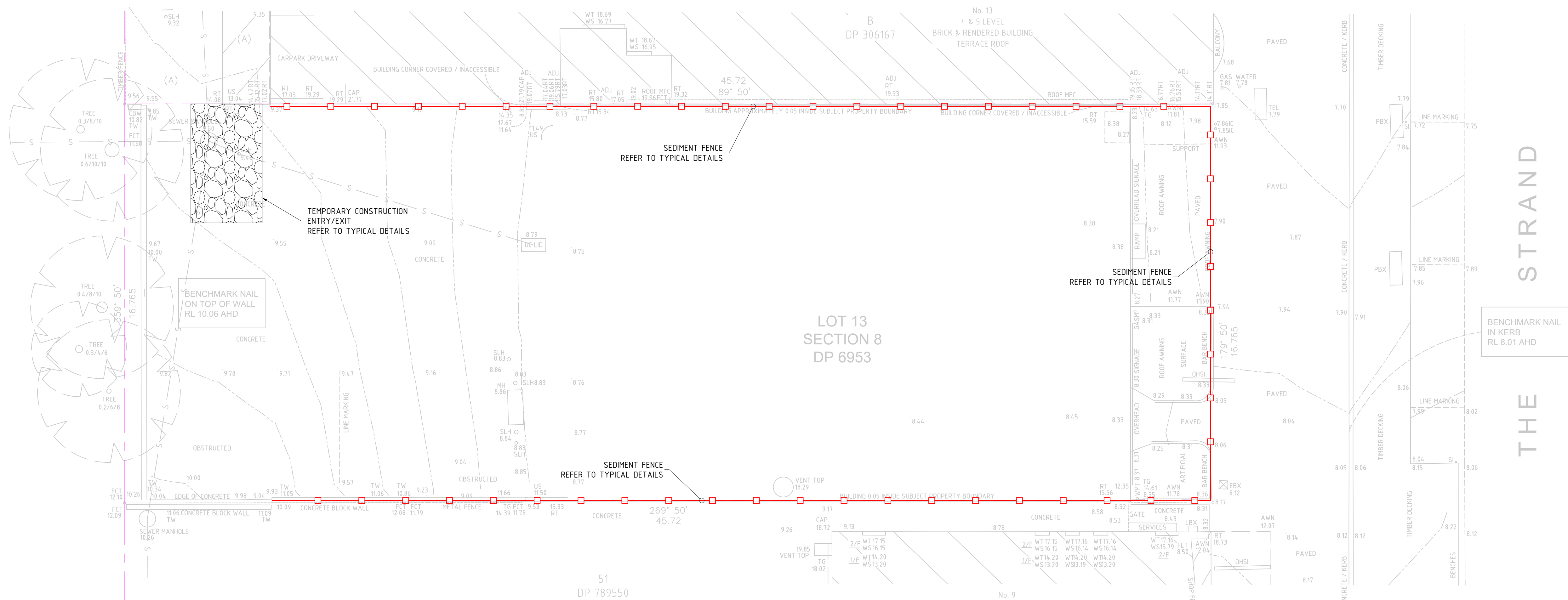
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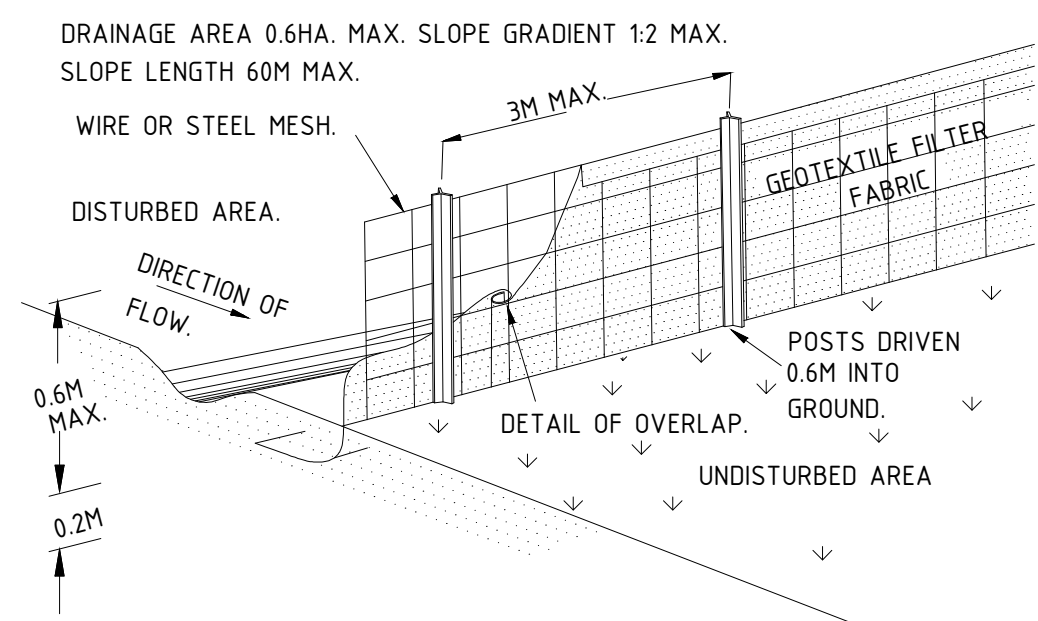
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Job No	Drawing No	Revision
2 / 1010	D05	D

241012 D05 D



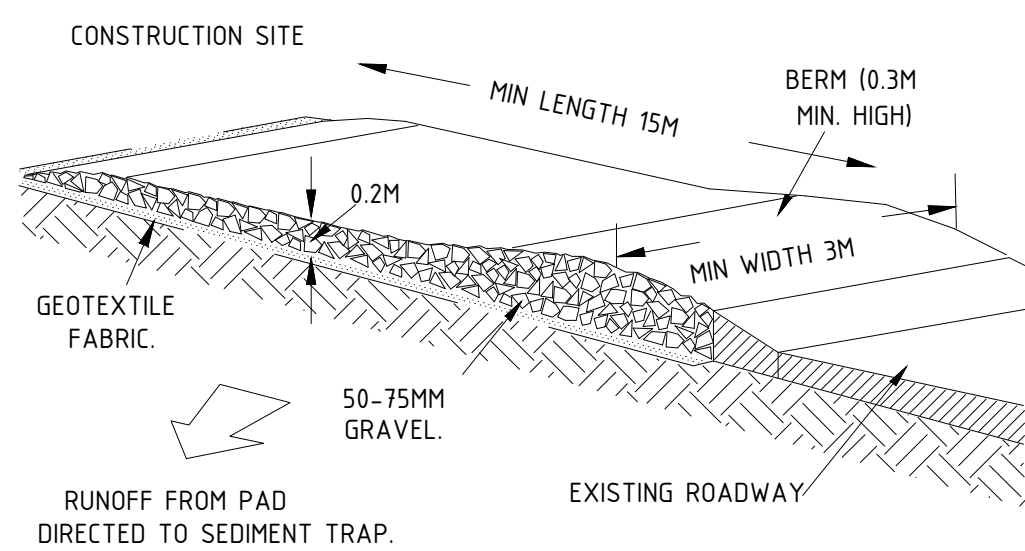
SITE EROSION AND SEDIMENTAL CONTROL PLAN
1:100



SEDIMENT FENCE

CONSTRUCTION NOTES

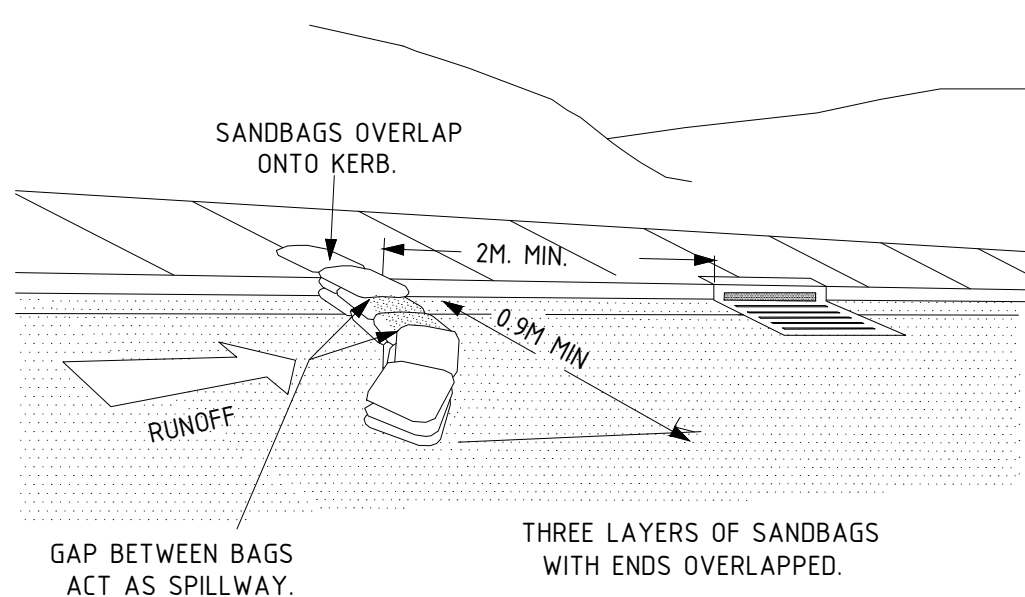
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP



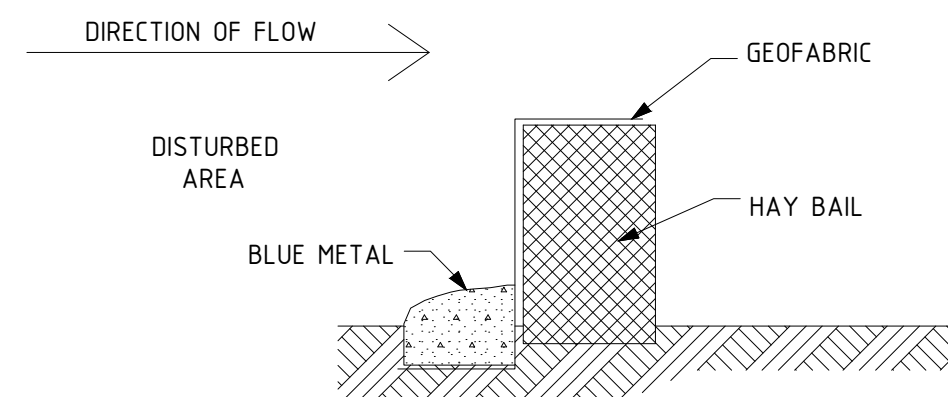
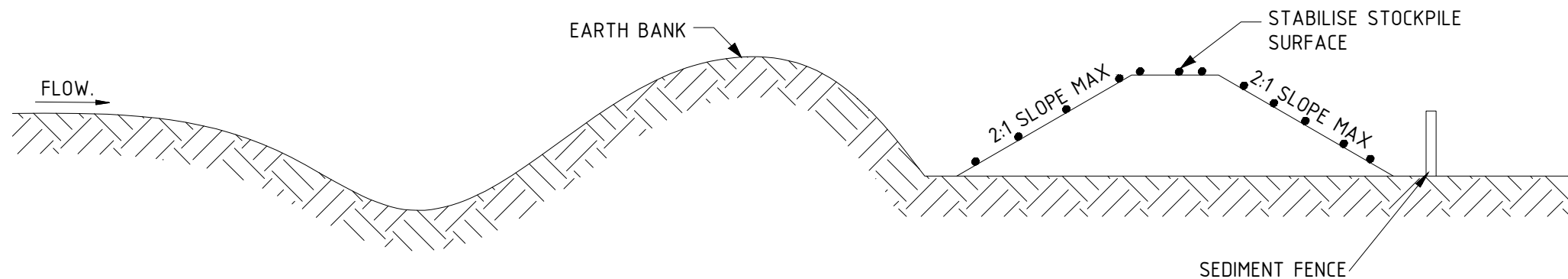
TYPICAL TEMPORARY CONSTRUCTION ENTRY/EXIT DETAIL

CONSTRUCTION NOTES:

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE or 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



SANDBAG KERB INLET SEDIMENT TRAP

REMOVABLE HAY BAIL DETAIL
N.T.S.

STOCKPILES DETAIL
N.T.S.

- CONSTRUCTION NOTES:**
1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUND.
 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
 5. CONSTRUCT EARTH BANK ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

D	ISSUE FOR DA SUBMISSION	J.S.	L.L.	13/05/25
C	ISSUE FOR DA SUBMISSION	J.S.	L.L.	23/04/25
B	ISSUE FOR COORDINATION	J.S.	L.L.	09/04/25
A	ISSUE FOR COORDINATION	J.S.	L.L.	13/06/25

Rev	Description	Eng	Draft	Date
Client				

Project _____

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SITE EROSION AND

SITE EROSION AND
SEDIMENTAL CONTROL PLAN

SEDIMENTAL CONTROL PLAN

Architect

Structural Engineer

Suite 604A, 1-5 Railway St.

SYJ CONSULTING ENGINEERS Chatswood NSW 2067
M: (02) 9411 3556



ENGINEERS
STRUCTURAL | CIVIL | FACADE

M: (62) 9111 6888
E: jack.shi@syjeng.com.au
W: www.syjeng.com.au

W. www.sjyong.com.ua

Scale : A1	Drawn	Authorised
As	L.L.	J.S.

indicated

Job No	Drawing No	Revision
211012	D06	D

Z41012	D06	D
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