

PROPOSED RESIDENTIAL DEVELOPMENT 116-124 RESTWELL STREET, BANKSTOWN

STORMWATER DRAINAGE DESIGN



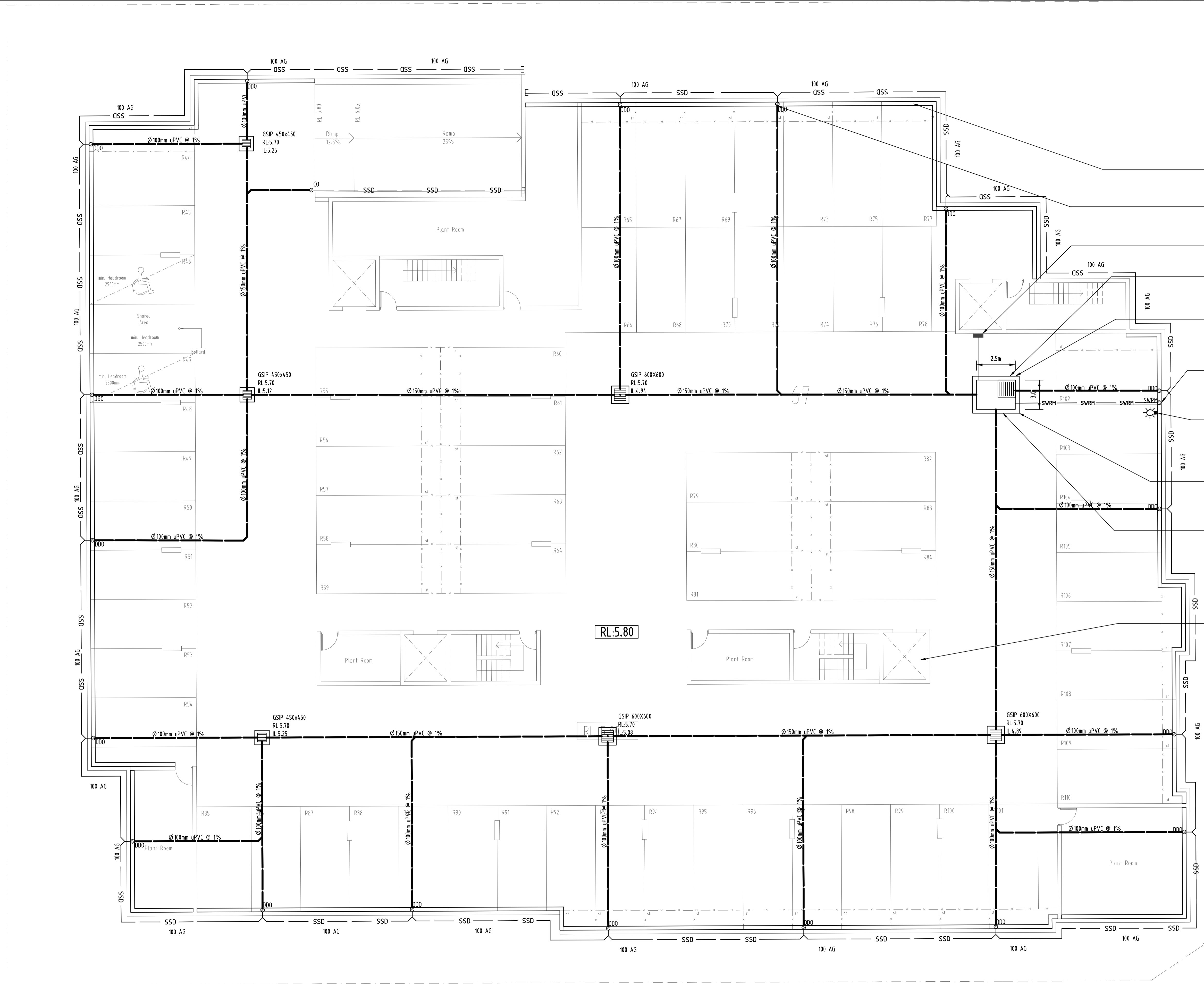
LOCALITY PLAN

DRAWING REGISTER		
No.	TITLE	REV
SW01	COVER SHEET	A
SW02	STORMWATER CONCEPT DESIGN - BASEMENT 2	A
SW03	STORMWATER CONCEPT DESIGN - GROUND FLOOR	A
SW04	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
SW05	EROSION AND SEDIMENT CONTROL PLAN	A
SW06	STORMWATER CONCEPT DESIGN - DETAILS	A

Drawing Title		COVER SHEET	
Project Number	Drawing Number	Revision Number	
20150375	SW01	A	
Sheet	1 of 6	Issue	FOR APPROVAL

DATE PLOTTED: 1 April 2016 9:22 AM BY: USER
 A1
 C:\Production\2015\20150375_116-124_Restwell Street, Bankstown\DWG\SW02.dwg

SERVICES ON THIS DRAWING
 ARE SHOWN BELOW SLAB U.N.D



- Ø 200mm HALF ROUND DISH DRAIN TO PERIMETER WALL OF BASEMENT.
- Ø 200mm DISH DRAIN OUTLET TYPE SPS OR APPROVED EQUIVALENT (TYP).
- PUMP OUT PIT CONTROL BOX TO MANUFACTURERS SPECIFICATIONS.
- INSTALL STEP IRONS. REFER TO DETAILS.
- INSTALL 900SQ HEAVY DUTY STEEL GRATED LID FOR ACCESS AND MAINTENANCE PURPOSES.
- STORMWATER RISING MAIN. 1x80mm uPVC CLASS 12.
- INSTALL WARNING FLASH LIGHT TO PROVIDE INDICATION OF PUMP FAILURE
- INSTALL CONFINED SPACE SIGN FOR PUBLIC AWARENESS AND WARNING.
- SUBSOIL PUMP OUT PIT:
 RL: 5.70
 TWL: 5.40
 IL: 4.20
 AREA: 7.5m²
 VOLUME REQUIRED: 7.14m³
 VOLUME PROVIDED: 9.0m³
 INSTALL 2x SUBMERSIBLE PUMPS EACH WITH A PUMP CAPACITY OF 10L/S AT 10m HEAD.
- LIFT PIT TO BE FULLY TANKED TO STRUCTURAL DETAILS.

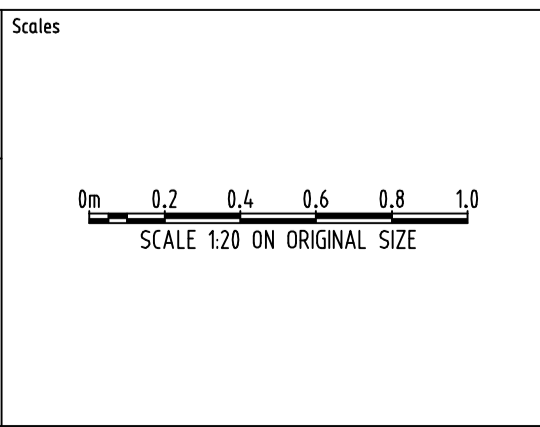
SUBSOIL DESIGN CALCS:
 100yr 2hr ARI STORM: 5mm/hr
 ARIx2=51.0x2=102.0mm
 AREA OF DRIVEWAY
 RAMP UNCOVERED= 70.0m²
 $V = A \times d$
 $= 70 \times (102 / 1000)$
 $= 7.14 \text{m}^3$
 THEREFORE, A VOLUME OF 9.0m³ SUBSOIL PUMP OUT PIT WILL BE APPLIED AS PER AUSTRALIAN STANDARD.

NOTE:
 BASEMENT DRAINAGE DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION AND STRUCTURAL DESIGN OF WALLS AND SLABS.

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH	SK200	09.03.16	#
ARCH			
STRUCT			
MEEH			
ELEC			
HYD			
FBRE			
LANDS			
CIVL			
SURVEY			

QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
 116-124 RESTWELL STREET, BANKSTOWN

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	2 of 6	1:100 @ A1
Project No	Drawing No	Revision No	
20150375	SW02	A	

1-preliminary
 2-development application
 3-construction certificate
 4-tender
 5-construction
 6-other

Issue internal sequence and revision history

Issue	Last revision title	by	Date	Status
A	SUBMISSION TO COUNCIL	ZZ	22.03.2016	2

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE THIS DRAWING. POSITIONING OF AUTHORITIES MARKS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DESIGN/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.



Scale 1:20 ON ORIGINAL SIZE

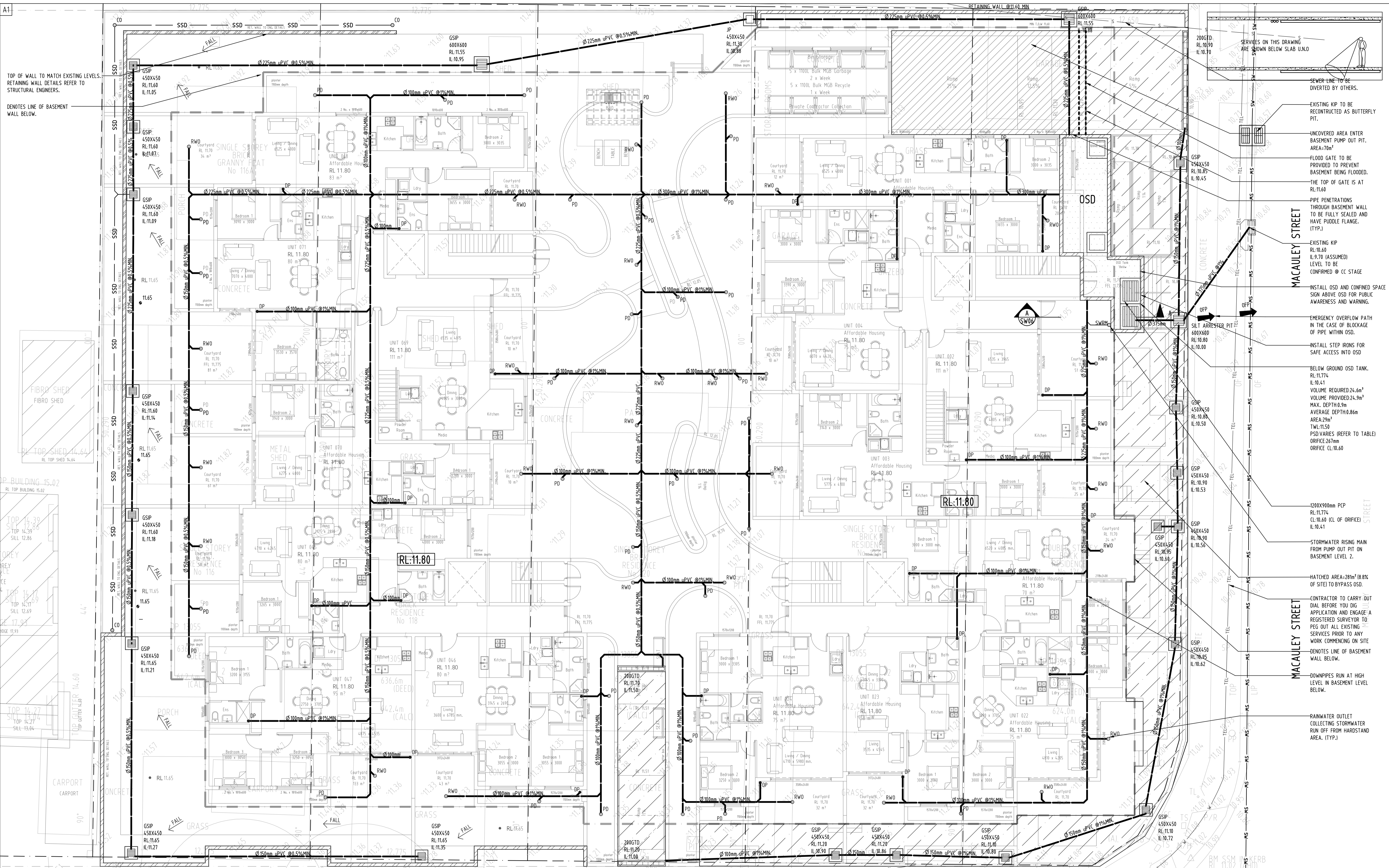
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-	A.H.D.	2 of 6	1:100 @ A1
Project No	Drawing No	Revision No	
20150375	SW02	A	



Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH	SK01	23.02.16	#
MECH			
ELEC			
HYD			
FIGE			
LANDS			
CIVL			
SURVEY			

Issue internal sequence and revision history

Issue	Date	Status
A	22.03.2016	2
Issued for final approval		

1-preliminary
2-development application
3-construction certificate
4-tender
5-construction
6-other

QUALITY CONTROL

DRIVEN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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Scale 1:100 ON ORIGINAL SIZE

0 1 2 3 4 5

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PROJECT
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116-124 RESTWELL STREET, BANKSTOWN

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER DRAINAGE DESIGN
GROUND FLOOR PLAN

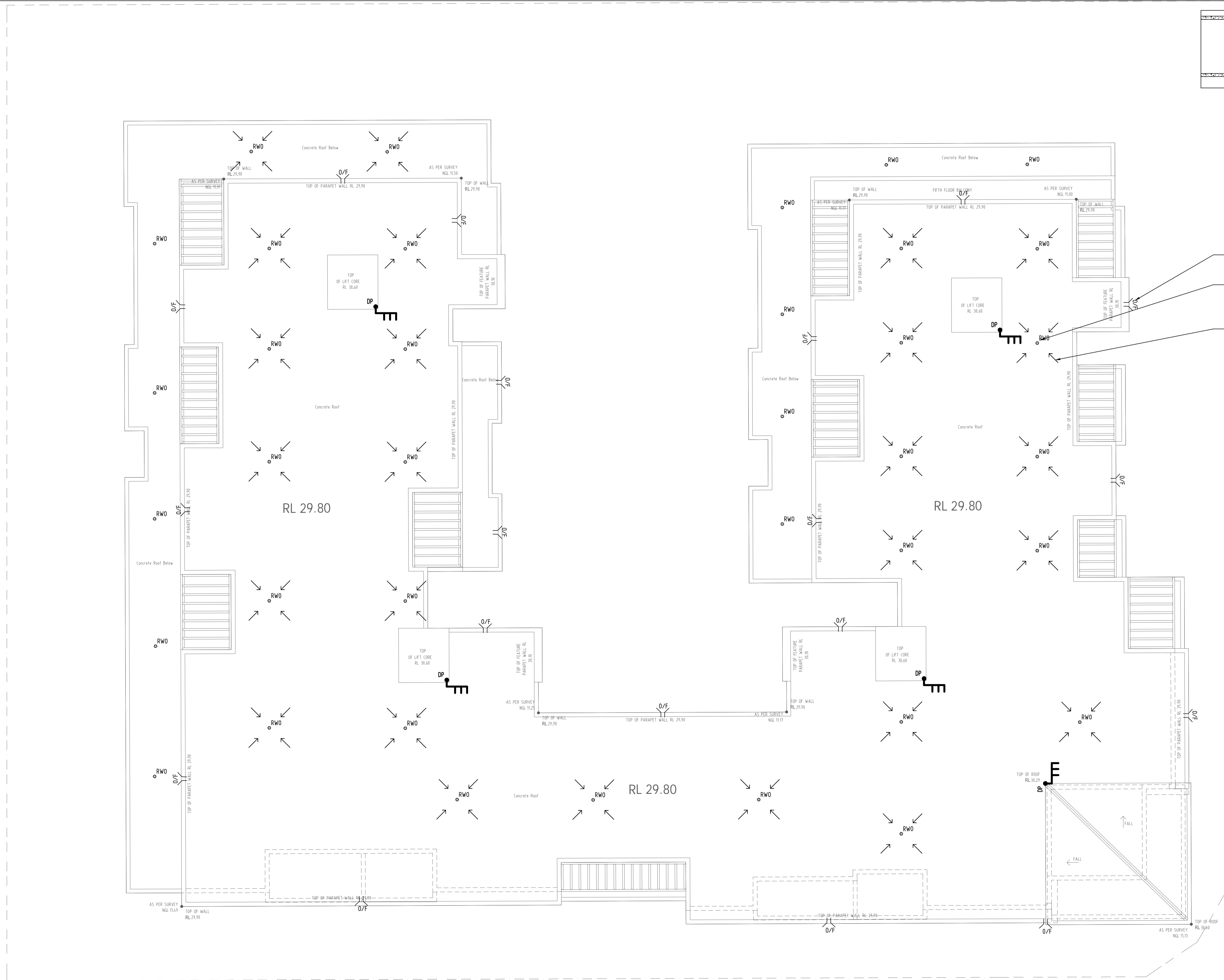
Project No
20150375

Drawing No
SW03

Revision No
A

Grid Datum Sheet Scale (at original size)
A.H.D. 3 of 6 1:100 @ A1

SERVICES ON THIS DRAWING
ARE SHOWN BELOW SLAB U.N.O



OVERFLOW (TYP.)

RAIN WATER OUTLET COLLECTING STORMWATER RUNOFF FROM ROOF AREAS. (TYP.)

DENOTES FALL TOWARDS RAIN WATER OUTLET (TYP.)

Issue	Last revision title	by	Date	Status
A	SUBMISSION TO COUNCIL	ZZ	22.03.16	2

Issue internal sequence and revision history

1-preliminary	2-development application	3-construction certificate
4-tender	5-construction	6-other

Discipline	Drawing Title and Number	Date	Rev.
ARCH	SK21	09.03.16	#

Reference Coordination Drawing

DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

QUALITY CONTROL

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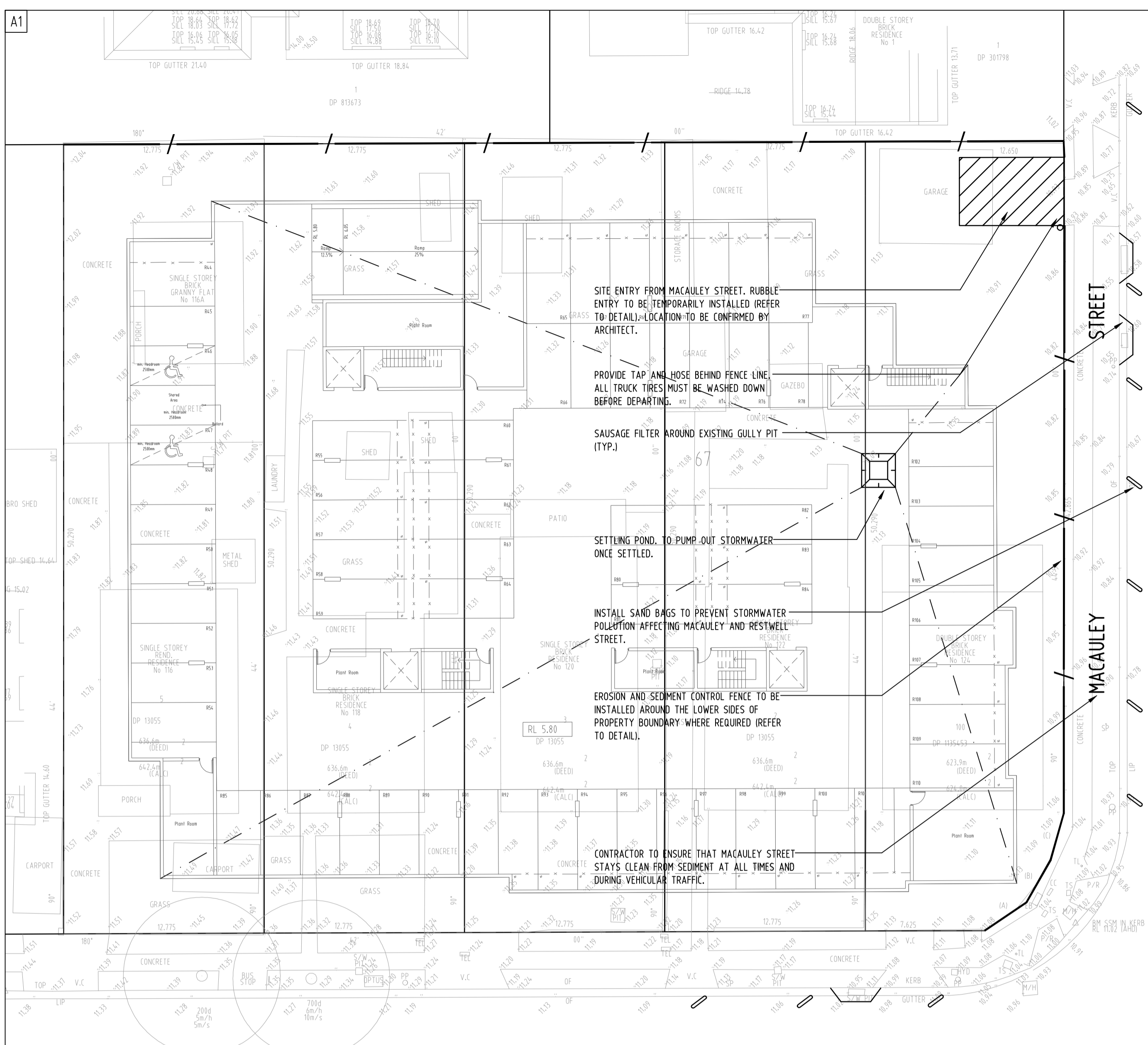
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Drawing Status	FOR APPROVAL	
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Project No	Drawing No	Revision No
20150375	SW04	A

DATE PLOTTED: 1 April 2016 9:29 AM BY: USER

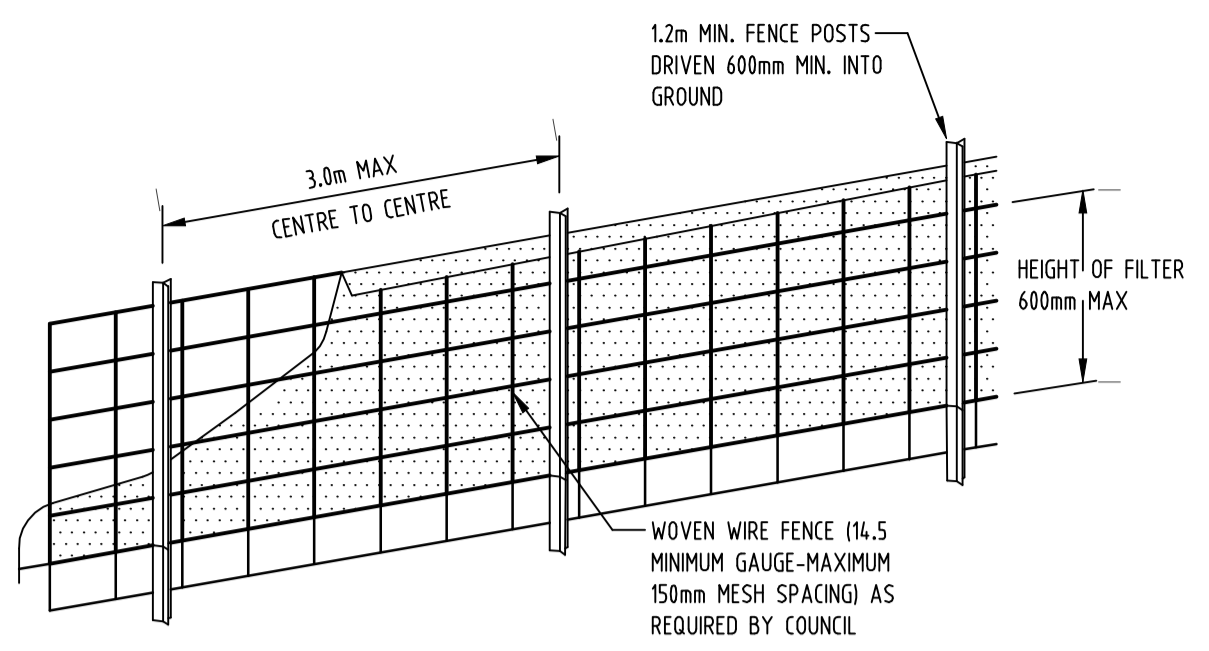


EROSION & SEDIMENTATION CONTROL NOTES

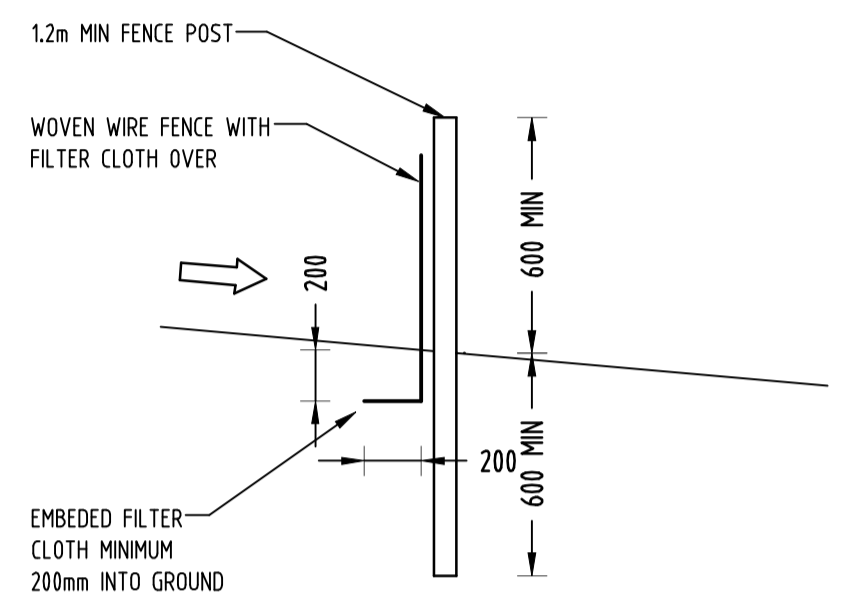
- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

GENERAL NOTES

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
 - TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL.

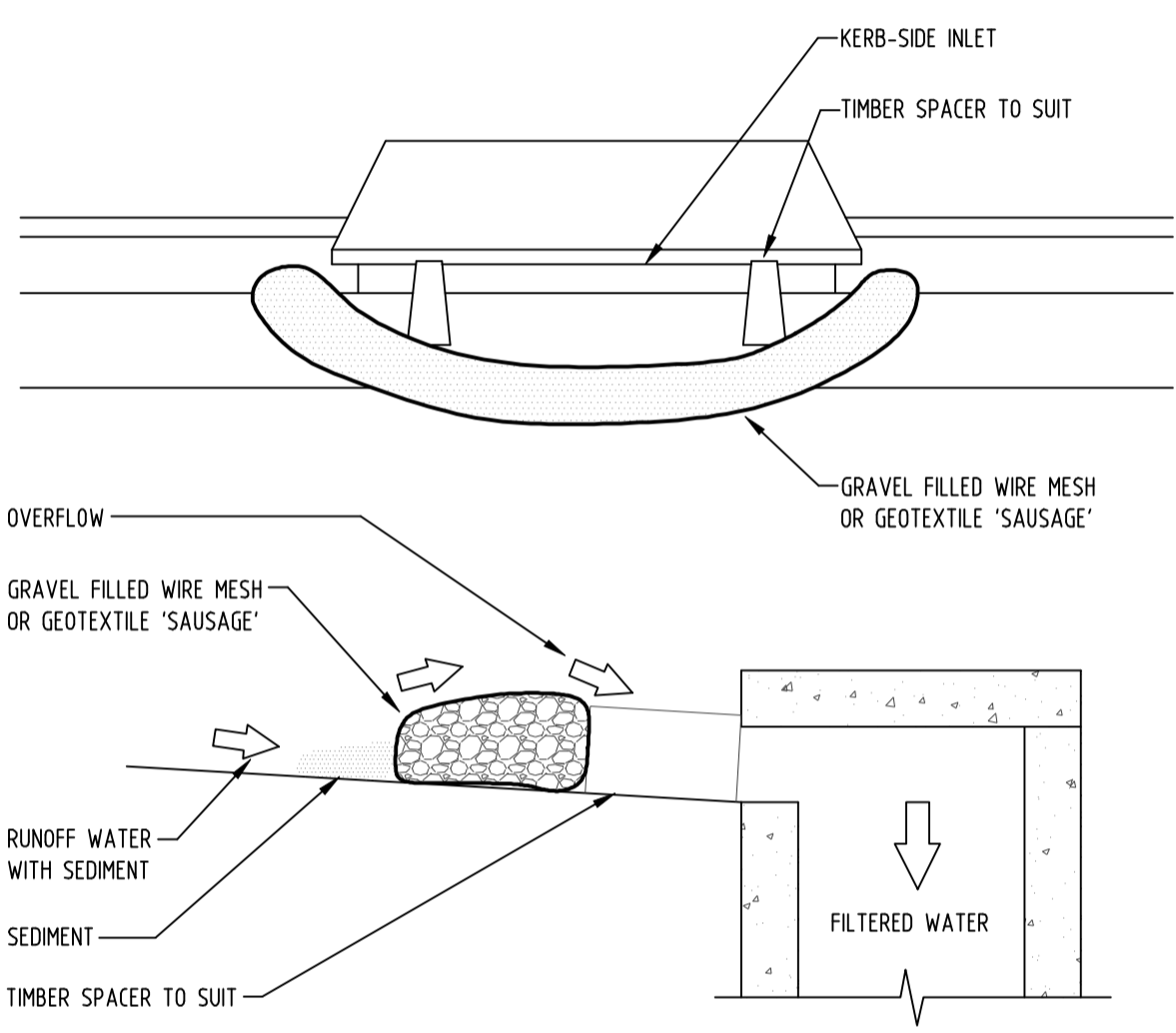


DIAGRAMMATIC VIEW



TYPICAL SECTION

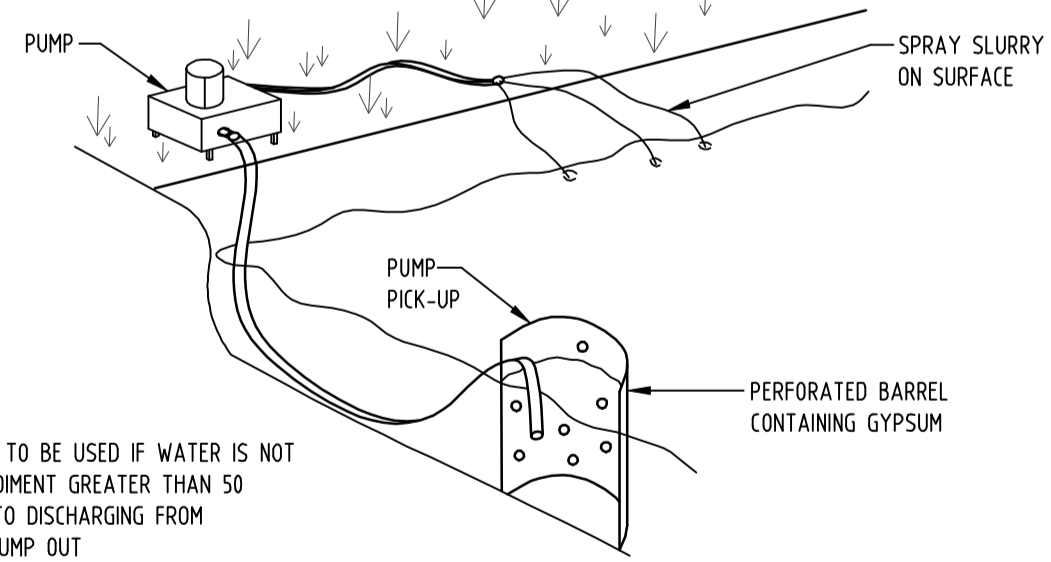
4 DETAIL
-
SEDIMENT FENCE
NOT TO SCALE



2 DETAIL
-
GRAVEL INLET FILTER (SAUSAGE)
NOT TO SCALE

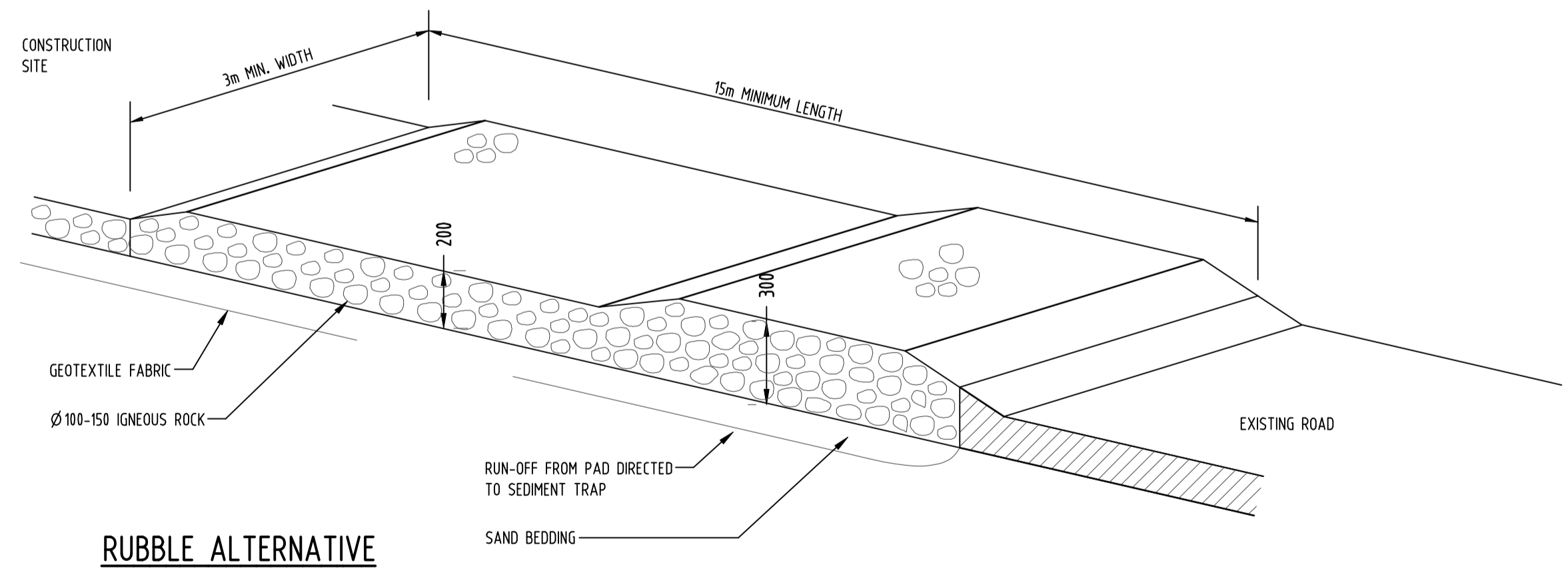
CONSTRUCTION NOTES:

- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT
- FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL
- FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY
- MAINTAIN THE OPENING WITH SPACER BLOCKS
- FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER
- FIT TO ALL KERB INLETS AT SAG POINTS



- NOTE:**
- FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (ie. SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT
 - FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION".

1 DETAIL
-
FLOCCULATION DETAIL
NOT TO SCALE



RUBBLE ALTERNATIVE

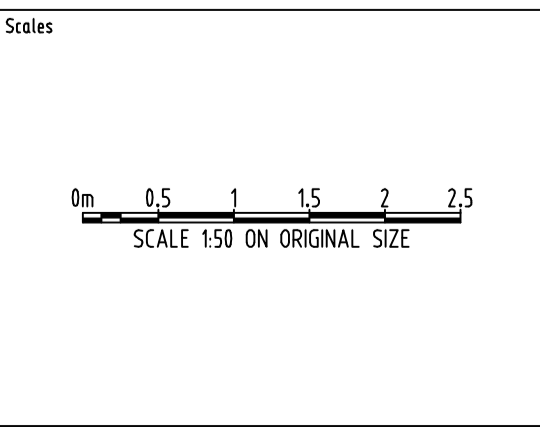
3 DETAIL
-
TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

Reference Coordination Drawing	
Discipline	Drawing Title and Number
ARCH	SK208
ARCH	
STRUCT	
MECH	
ELEC	
HYD	
FIRE	
LANDS	
CIVIL	
SURVEY	

Issue	Last revision title	by	Date	Status
A	SUBMISSION TO COUNCIL	ZZ	22.03.2016	2

Discipline	Checked	Date
ARCH	CHECKED	DATE
STRUCT	CHECKED	DATE
MECH	DESIGNED	DATE
ELEC	VERIFIED	DATE
HYD	APPROVED	DATE

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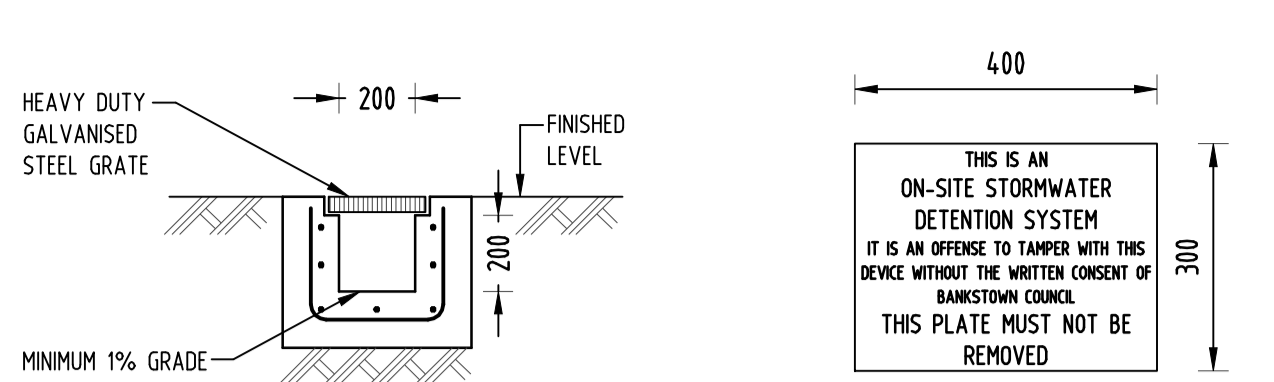
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PROPOSED RESIDENTIAL DEVELOPMENT
116-124 RESTWELL STREET, BANKSTOWN

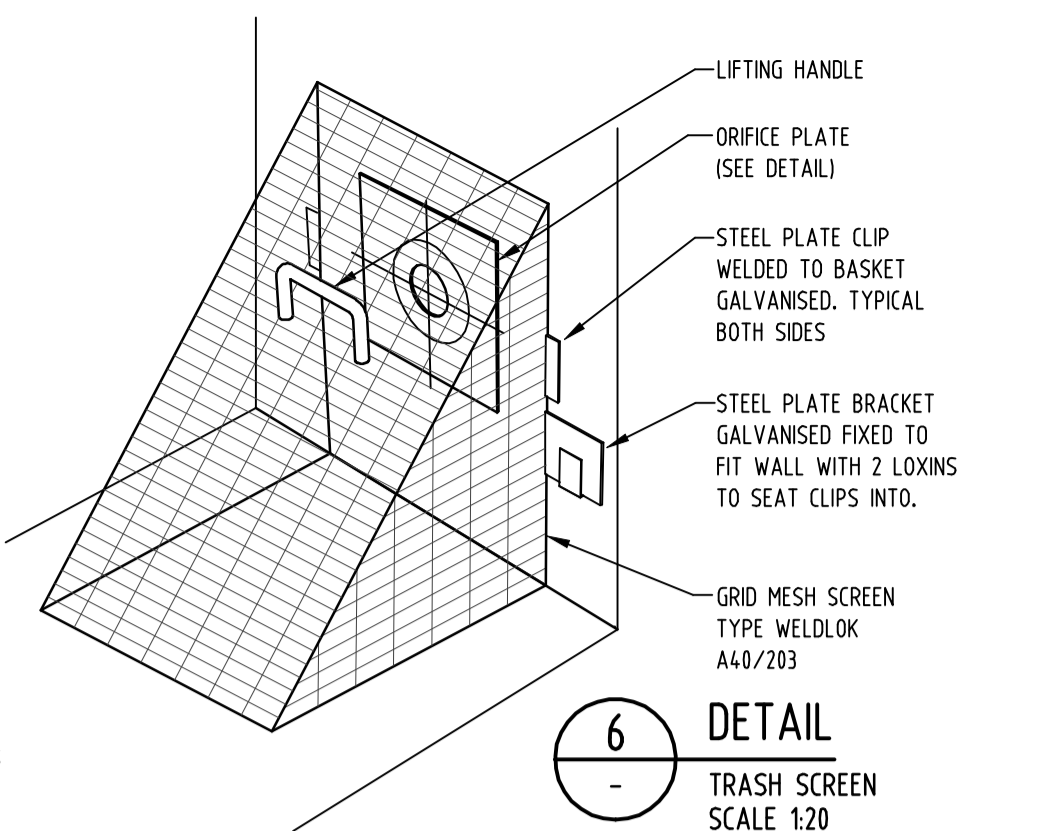
Project No	Drawing No	Revision No
20150375	SW05	A

DATE PLOTTED: 1 April 2016 9:29 AM BY: USER

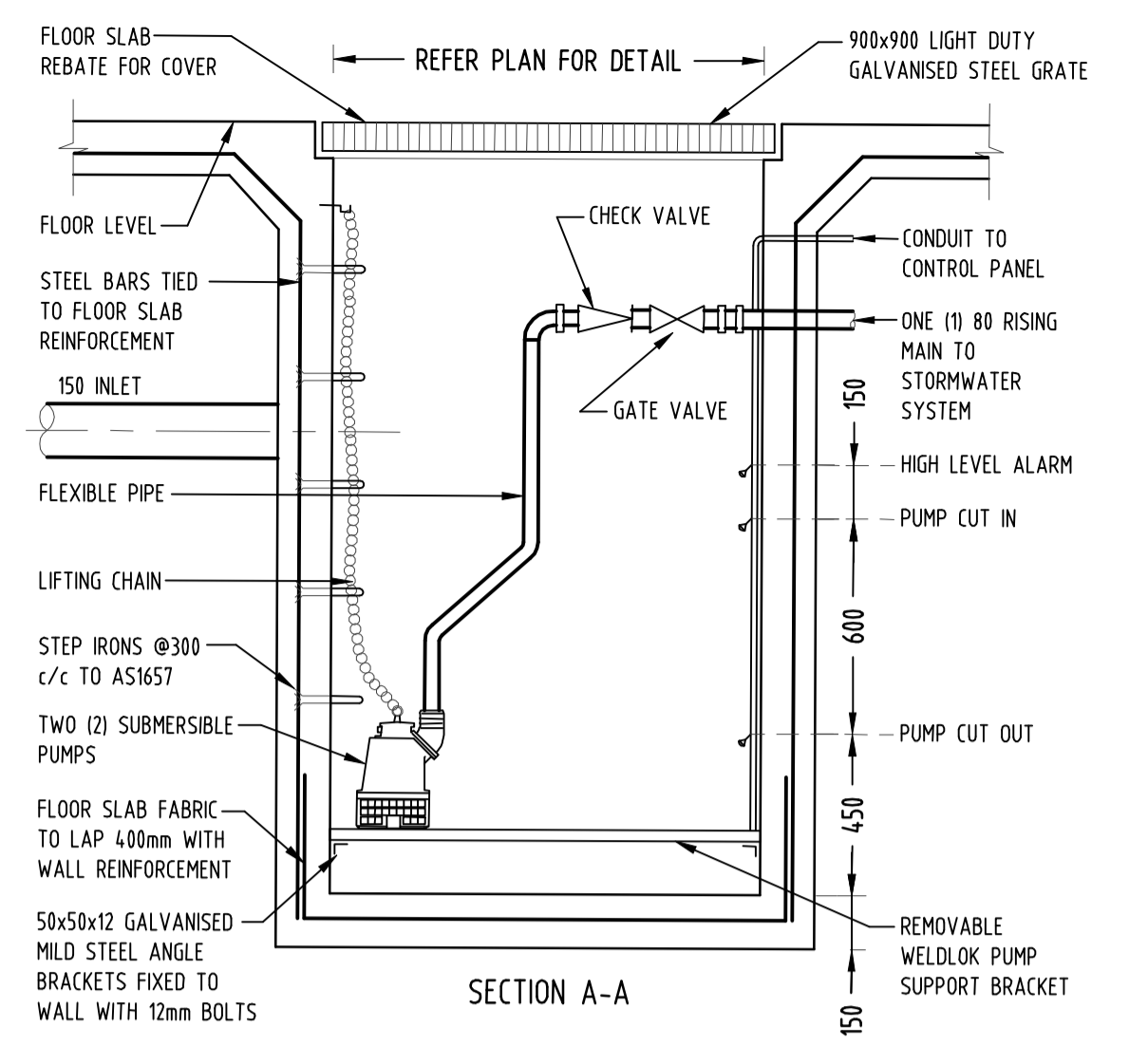
DATE PLOTTED: 1 April 2016 9:23 AM BY: USER
 A1
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 2016-04-01 9:23 AM



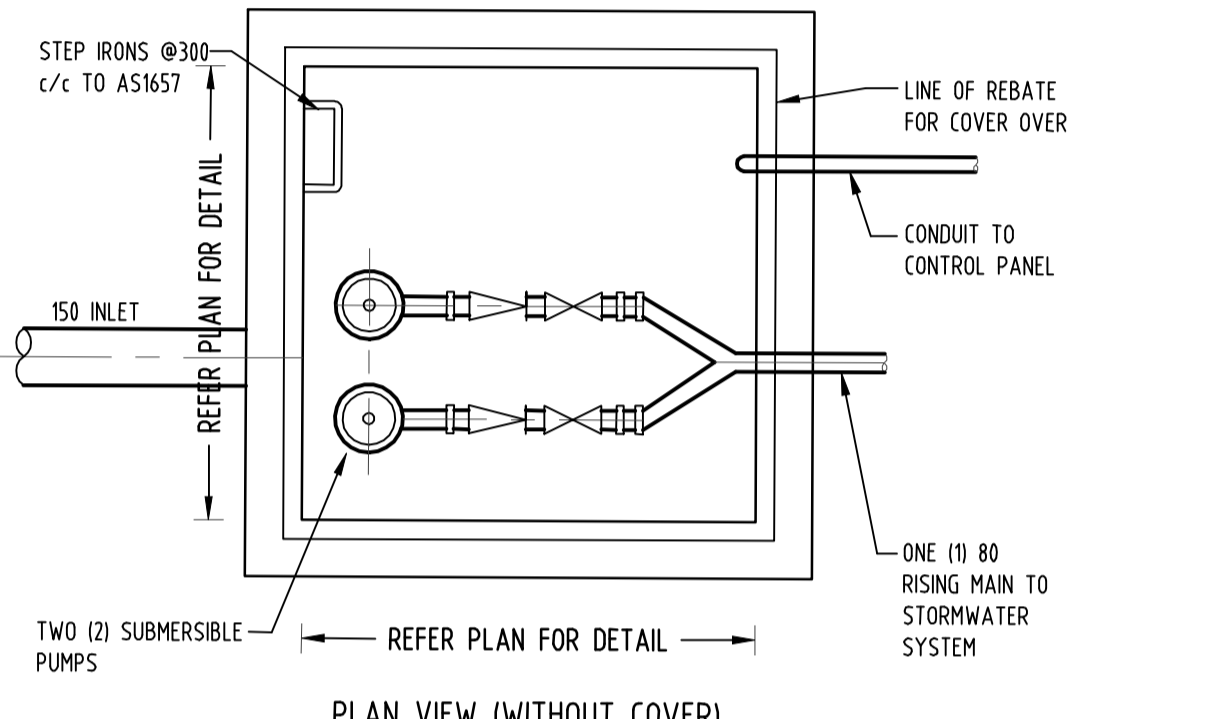
1 DETAIL
 GRATED TRENCH DRAIN
 NOT TO SCALE



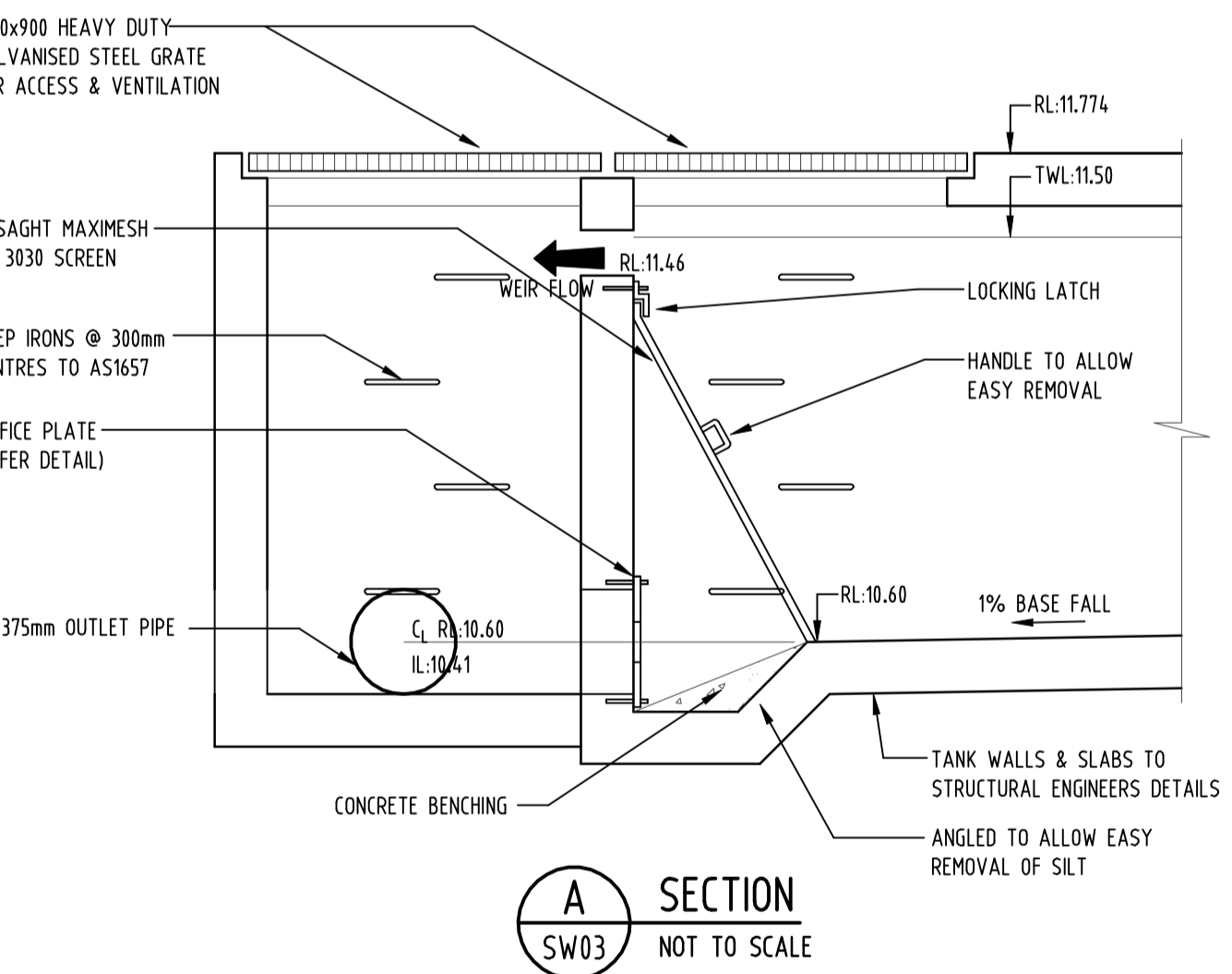
3 DETAIL
 OSD SIGN
 SCALE 1:10



SECTION A-A



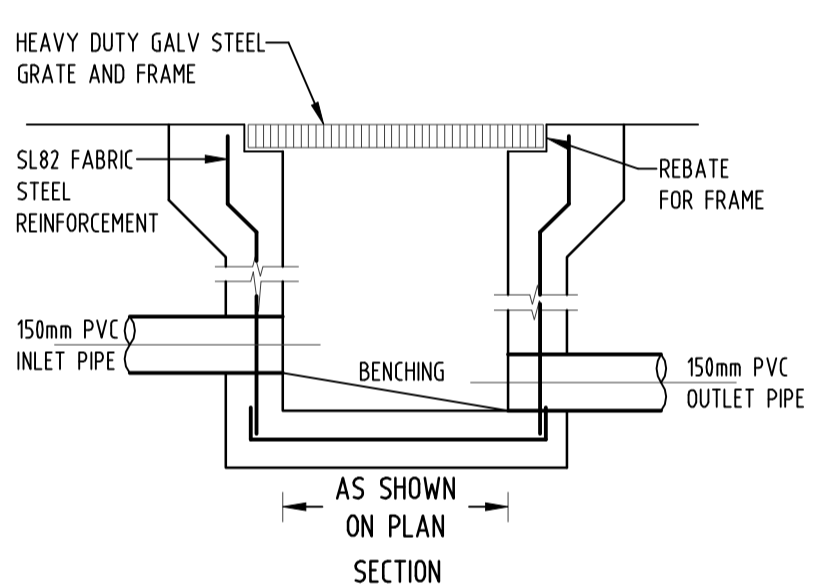
9 DETAIL
 SUBSOIL PUMP OUT PIT
 SCALE 1:20



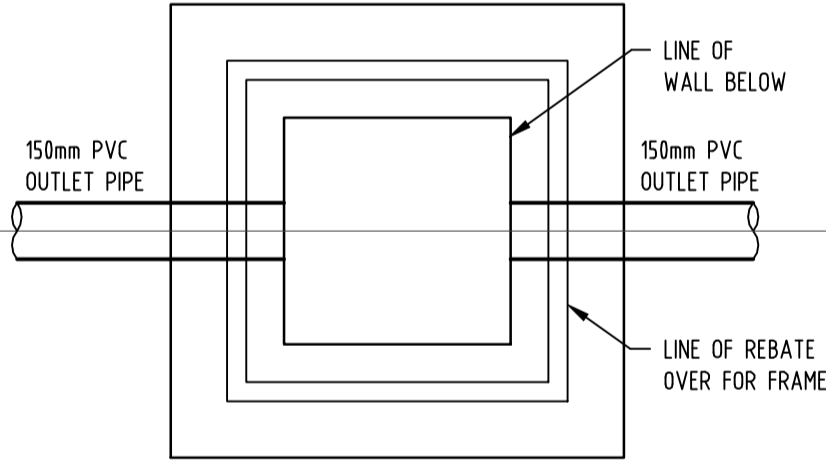
A SECTION
 SW03
 NOT TO SCALE

DRAINAGE NOTES:
 ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED
 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE
 MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm
 ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS
 BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL
 HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS
 PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT
 ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP
 ALL PITS SHALL BE MAINTAINED REGULARLY
 TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER
 Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES
 COMPRESSIVE STRENGTH f_c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS
 ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS
 ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm
 STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

DESIGN NOTES:
 THE SITE IS LOCATED IN BANKSTOWN CITY COUNCIL.
 TOTAL SITE AREA = 3194m²
 THE OSD STORAGE SYSTEM WILL BE BELOW GROUND.
 THE OSD IS SIZED USING "DRAINS" SOFTWARE BASED ON REDUCING THE PEAK DISCHARGE FROM 5-100 YEARS STORM POST-DEV DOWN TO PRE-DEV.
 SITE DISCHARGE PASSES THROUGH A SILT TRAP PIT BEFORE CONNECTING TO COUNCIL STORMWATER SYSTEM IN MACAULEY STREET.



AS SHOWN ON PLAN SECTION



10 DETAIL
 STORMWATER PIT
 SCALE 1:20

- LEGEND:**
- SW — SW — STORMWATER LINE
 - SSD — SSD — SUBSOIL LINE
 - SWRM — SWRM — STORMWATER RISING MAIN
 - e — e — EXISTING STORMWATER LINE
 - SW — SW — AUTHORITY STORMWATER LINE
 - S — S — AUTHORITY SEWER LINE
 - W — W — AUTHORITY WATER LINE
 - G — G — AUTHORITY GAS LINE
 - E — E — AUTHORITY ELECTRICITY LINE
 - UE — UE — AUTHORITY UNDERGROUND ELECTRICITY LINE
 - FO — FO — AUTHORITY FIBRE OPTIC LINE
 - TEL — TEL — AUTHORITY COMMS LINE
 - — — — — FENCE LINE

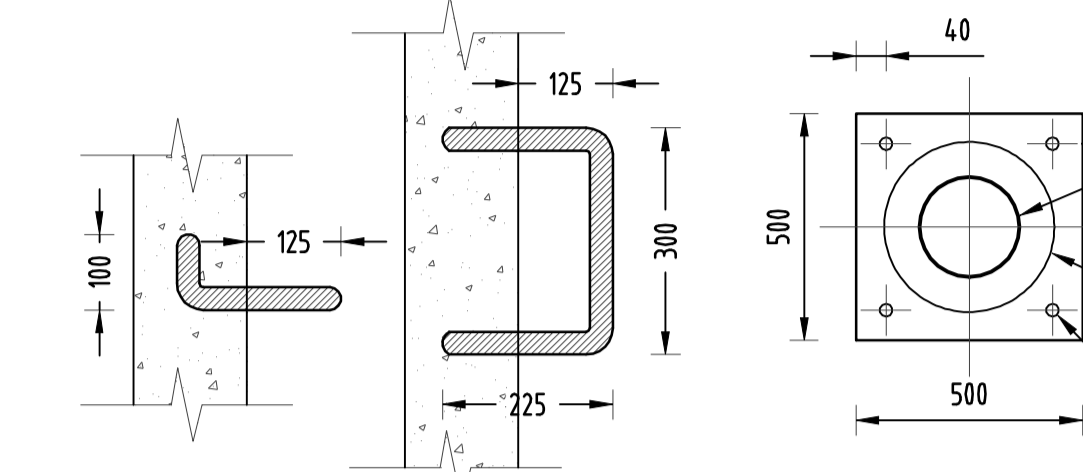
- GRATED SURFACE INLET PIT
- GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
- JUNCTION PIT
- KERB INLET PIT
- EXISTING KERB INLET PIT
- OVERLAND FLOW PATH
- RAINWATER OUTLET
- DISH DRAIN OUTLET
- PLANTER DRAIN
- CAP
- DOWNPIPE
- WALL PENETRATION

- AUTHORITY STORMWATER NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.
 - ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.
 - SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
 - NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
 - THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS
 PIPE BACKFILL DENSITY INDEX 75
 SELECT FILL 95% STANDARD
 BELOW BASE COURSE 98% MODIFIED
 BASE COURSE 100% MODIFIED
 - THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

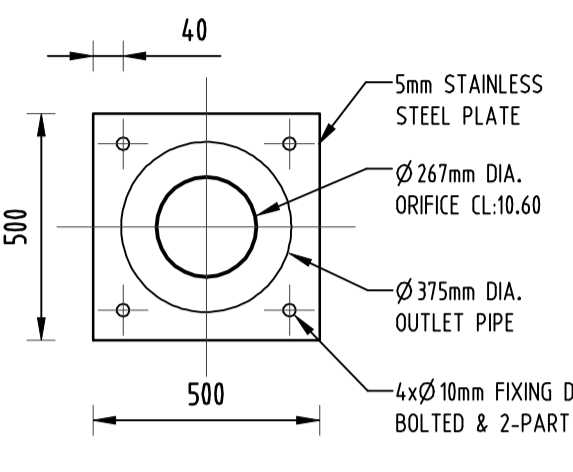
SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

POST-DEVELOPMENT OSD REQUIREMENTS:

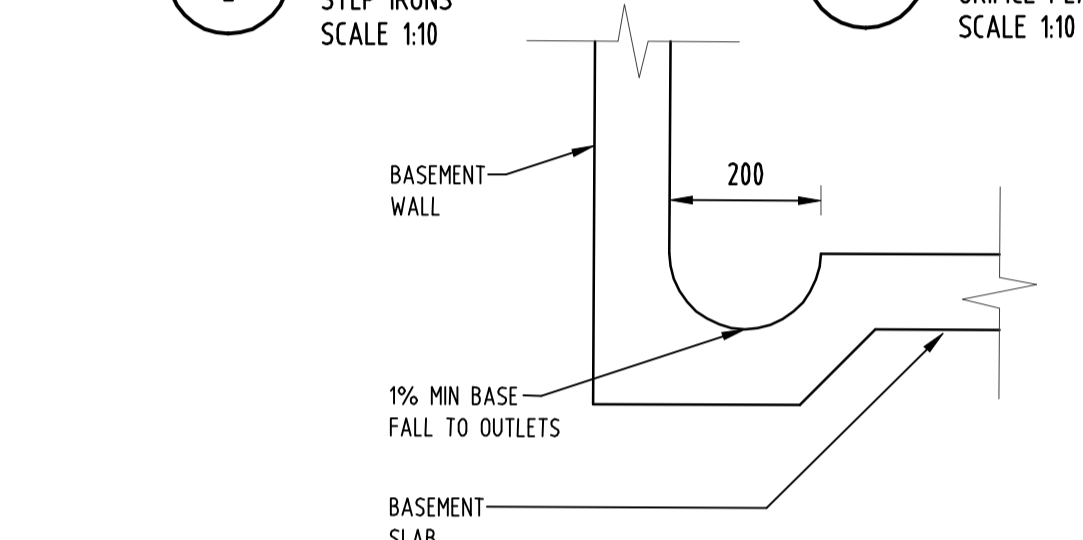
LOT AREA (m ²)	PRE-DEV IMPERVIOUS (%)	POST-DEV IMPERVIOUS (%)	STORM (YR)	PRE-DEV FLOW (m ³ /s)	POST-DEV FLOW (m ³ /s)	PIPE OUTFLOW (m ³ /s)	WEIR OUTFLOW (m ³ /s)	BYPASSING FLOW (m ³ /s)	TOTAL PSD (m ³ /s)	OSD VOLUME (m ³) FOR 100YR STORM STORAGE
3194	51.3	83.9	5	0.097	0.114	0.087	0	0.010	0.097	24.6
			20	0.140	0.153	0.112	0	0.014	0.126	
			100	0.169	0.190	0.130	0.019	0.017	0.166	



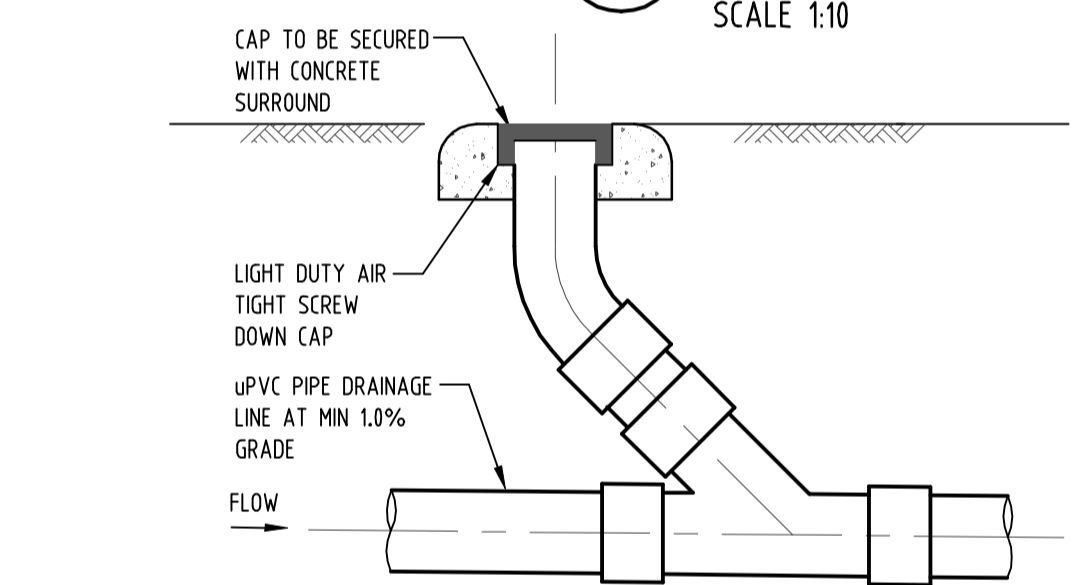
2 DETAIL
 STEP IRONS
 SCALE 1:10



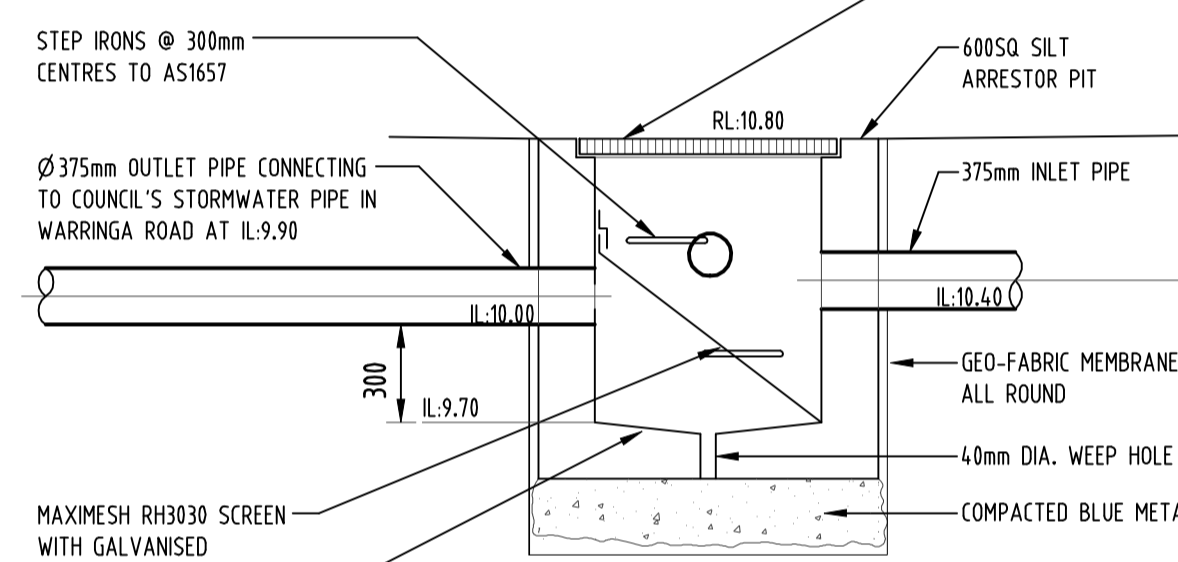
7 DETAIL
 ORIFICE PLATE
 SCALE 1:10



4 DETAIL
 DISH DRAIN
 SCALE 1:10



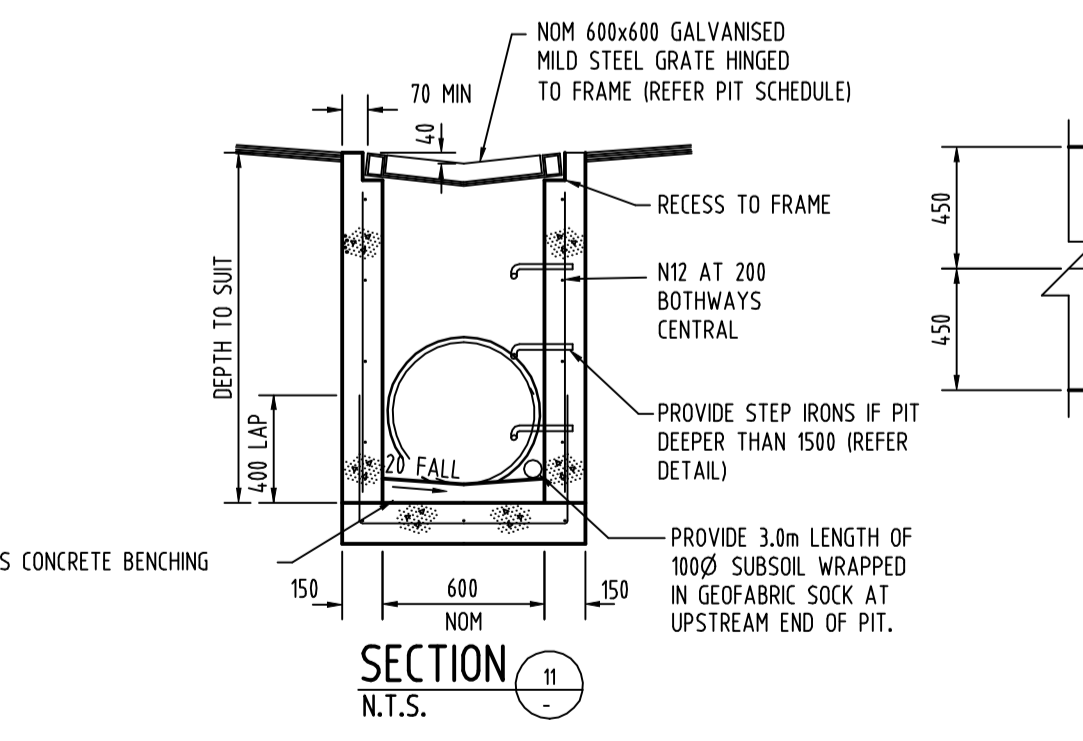
5 DETAIL
 CLEANING EYE
 SCALE 1:10



8 DETAIL
 CONFINED SPACE SIGN
 SCALE 1:10



11 DETAIL
 SILT ARRESTOR PIT
 N.T.S.



SECTION
 N.T.S.

'V' GRATED PIT
 N.T.S.

Reference Coordination Drawing

Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUC			
MECH			
ELEC			
HYD			
PIPE			
LANDS			
CIVIL			
SURVEY			

Issue internal sequence and revision history

Issue	Last revision title	by	Date	Status
A	SUBMISSION TO COUNCIL		22.03.2016	2

1-preliminary
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QUALITY CONTROL

DRAWN	DATE
CHECKED	DATE
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VERIFIED	DATE
APPROVED	DATE

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Drawing Status: FOR APPROVAL
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Drawing Title: **STORMWATER DRAINAGE DESIGN DETAILS**

Project No	Drawing No	Revision No
20150375	SW06	A