

MIXED USE DEVELOPMENT EAST VILLAGE CENTRE, JORDAN SPRINGS STORMWATER CONCEPT DESIGN



LOCALITY PLAN
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DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT PLAN	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW401	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A



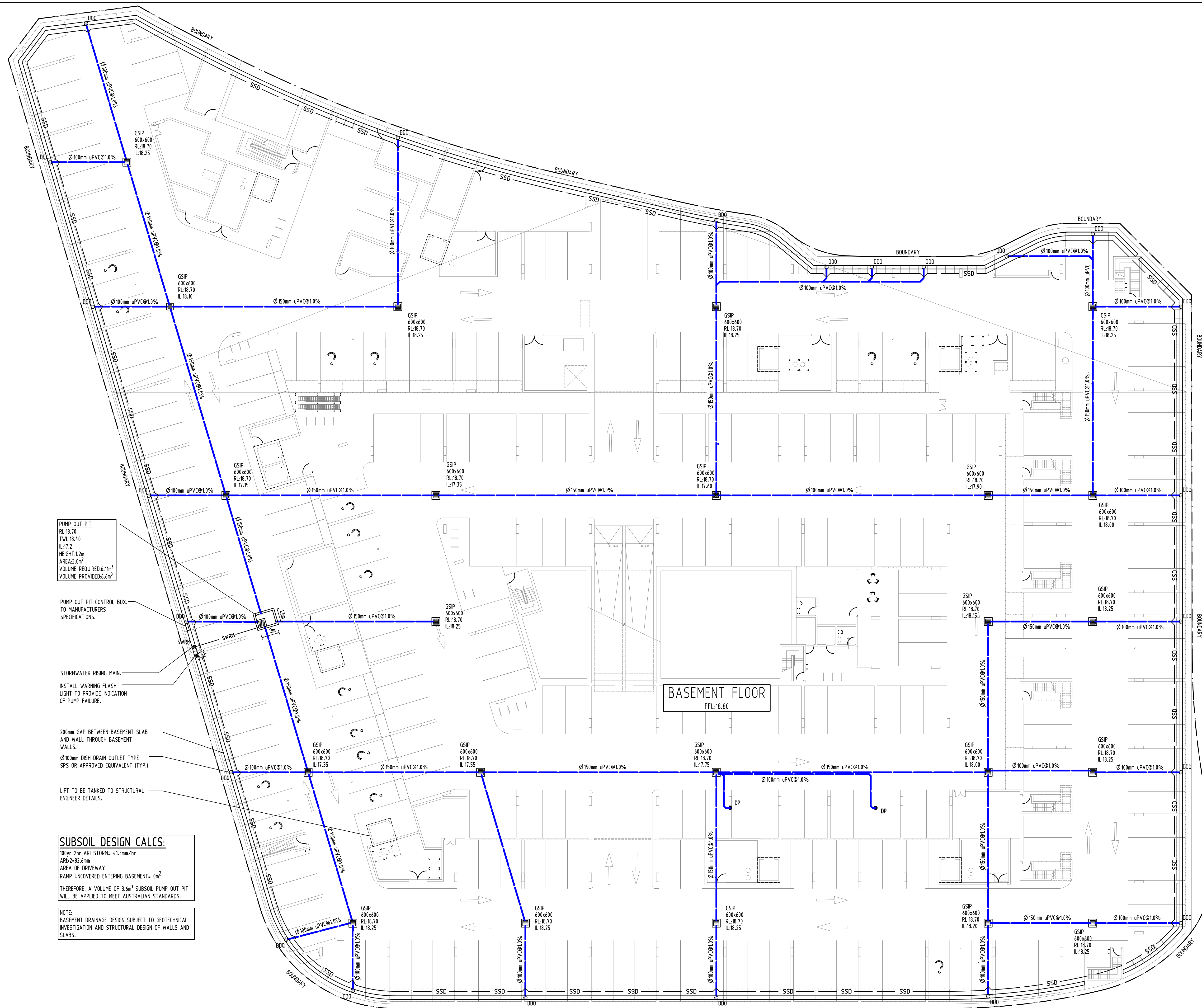
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A	ISSUE FOR DA APPROVAL					AA	18.10.19		2
P1	ISSUE FOR DA APPROVAL					AA	18.09.19		1
No	Last revision title					By	Date	Status	

Issuer internal sequence and revision history		
1- preliminary	2- development application	3- construction certificate
4- tender	5- construction	6- other (specify)

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
PIRE			
LANDSC			
CIVIL			
SURVEY			

QUALITY CONTROL			
DRAWN	AA	DATE	18.10.19
CHECKED	SH	DATE	18.10.19
DESIGNED	AA	DATE	18.10.19
VERIFIED	SH	DATE	18.10.19
APPROVED	SH	DATE	18.10.19

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

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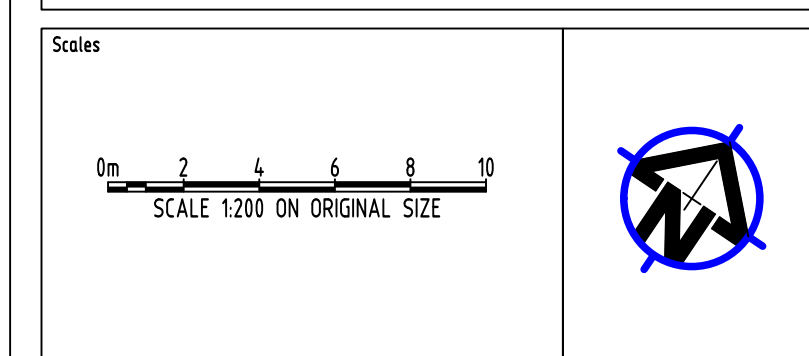
PROJECT
MIXES USE DEVELOPMENT
EAST VILLAGE STREET,
JORDAN SPRINGS

Drawing Title

STORMWATER CONCEPT DESIGN
BASEMENT PLAN

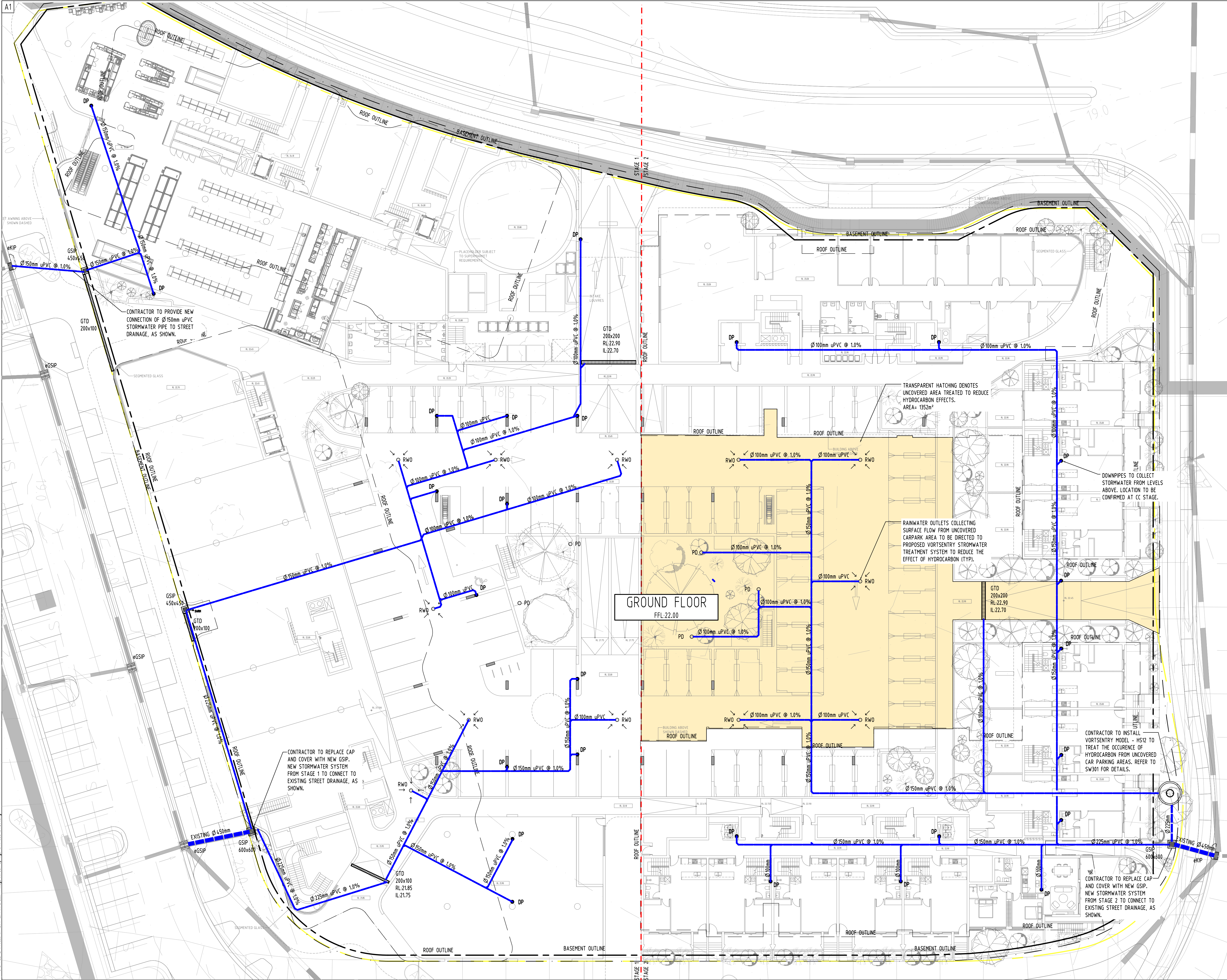
Project No		Drawing No		Revision No
20190092		SW200		A
Sheet	Scale	Grid	Datum	
2 OF 6	1:200 @ A1	MG4 56	A.H.D.	

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**ENGINEERS
AUSTRALIA**
Chartered Professional Engineer
MEMBER

DATE PLOTTED: 21 October 2019 9:39 AM BY: SGC/MC/0
C:\D:\P\Production\2019\2019009_East Village Jordan Springs\Civil\Drawings\SW201.dwg
Version: 1, Version Date: 27/11/2019



Revision History			
No	Last revision title	By	Date
A	ISSUE FOR DA APPROVAL	AA	18.10.19
P1	ISSUE FOR DA APPROVAL	AA	18.09.19

Revision History			
No	Last revision title	By	Date
1	preliminary	AA	18.10.19
2	development application	AA	18.09.19
3	construction certificate	AA	18.09.19
4	tender	AA	18.09.19
5	construction	AA	18.09.19
6	other (specify)	AA	18.09.19

Reference Coordination Drawing			
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CIVIL			
SURVEY			

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PROJECT
MIXES USE DEVELOPMENT
EAST VILLAGE STREET,
JORDAN SPRINGS

Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN

Project No	Drawing No	Revision No
20190092	SW201	A

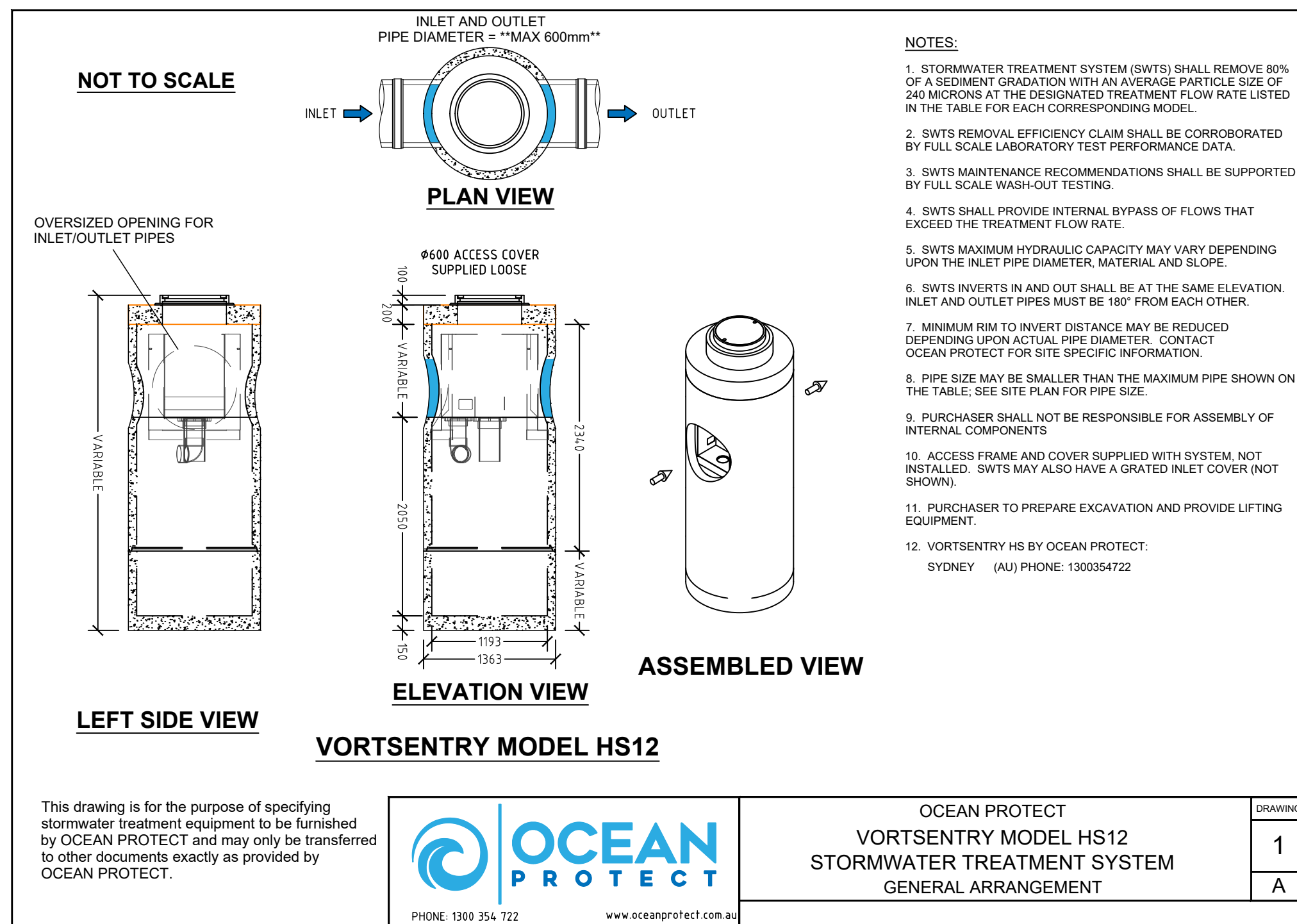
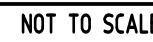
Sheet	Scale	Grid	Datum
3 OF 6	1:200 @ A1	MGA 56	A.H.D.

Drawing Status
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Scales
0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

ENGINEERS AUSTRALIA
MEMBER

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THE SITE IS LOCATED IN PENRITH CITY COUNCIL

SITE AREA = 1.106 ha

THE PROPOSED DEVELOPMENT IS WITHIN THE NEWLY SUBDIVIDED AREA OF JORDAN SPRINGS. DURING THE DEVELOPMENT OF THIS NEWLY SUBDIVIDED AREA, A COMMUNAL BASIN WAS CONSTRUCTED TO CATER FOR THE NEW SURROUNDING DEVELOPMENTS. THE FOLLOWING WERE CONSIDERED DURING THE CONSTRUCTION AND THEREFORE WILL NOT BE REQUIRED FOR THIS DEVELOPMENT:

AS THERE WILL BE A LARGE AMOUNT OF TRAFFIC ENTERING AND EXITING THE NEW FACILITY, COUNCIL HAS RECOMMENDED TO TREAT THE HYDROCARBON WITHIN UNCOVERED PARKING AREAS. THE PROPOSED STORMWATER SYSTEM WILL COLLECT 1352m² OF UNCOVERED AREA INTO A VORTSEYTSKY STORMWATER TREATMENT SYSTEM THAT WILL ACHIEVE A REDUCTION TARGET OF 90% AS PER COUNCIL'S REQUEST. THE VORTSEYTSKY HAS BEEN SIZED AS A MODEL HS12 BY OCEAN PROTECT AUSTRALIA.

1 IN 3 MONTH FLOW
 $I = 40.45 \text{ mm/hr}$
 $C = 1$
 $\text{AREA} = 1352 \text{ m}^2$
 $Q = 1.0 \times 40.45 \times 1352 / 3600 = 15.19 \text{ l/s}$

Reference Coordination Drawing

QUALITY CONTROL				DISCLAIMER: DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES HANS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.
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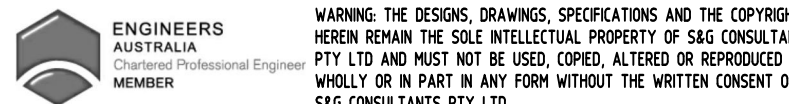
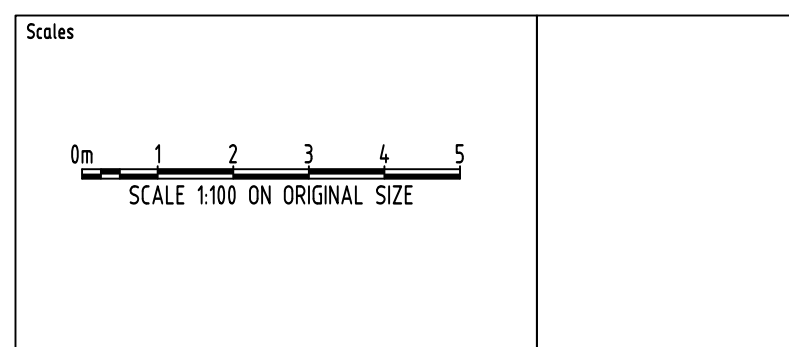
PROJECT
MIXES USE DEVELOPMENT
EAST VILLAGE STREET,
JORDAN SPRINGS

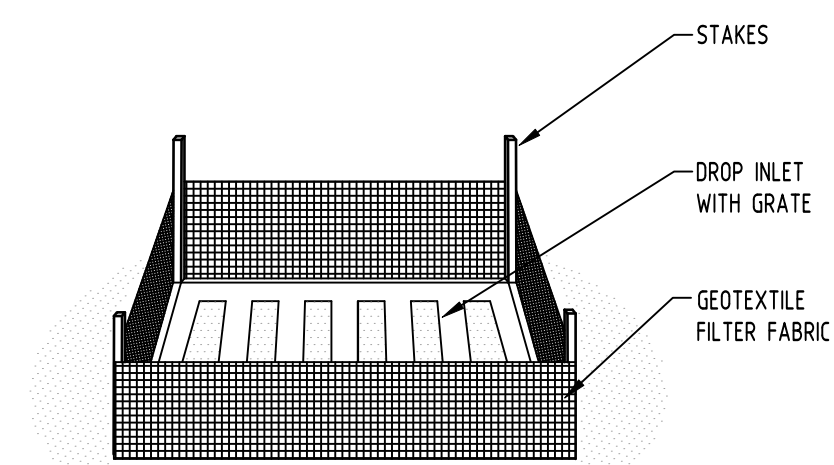
Drawing Title
STORMWATER CONCEPT DESIGN
DETAILS SHEET

Drawing Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION PURPOSES



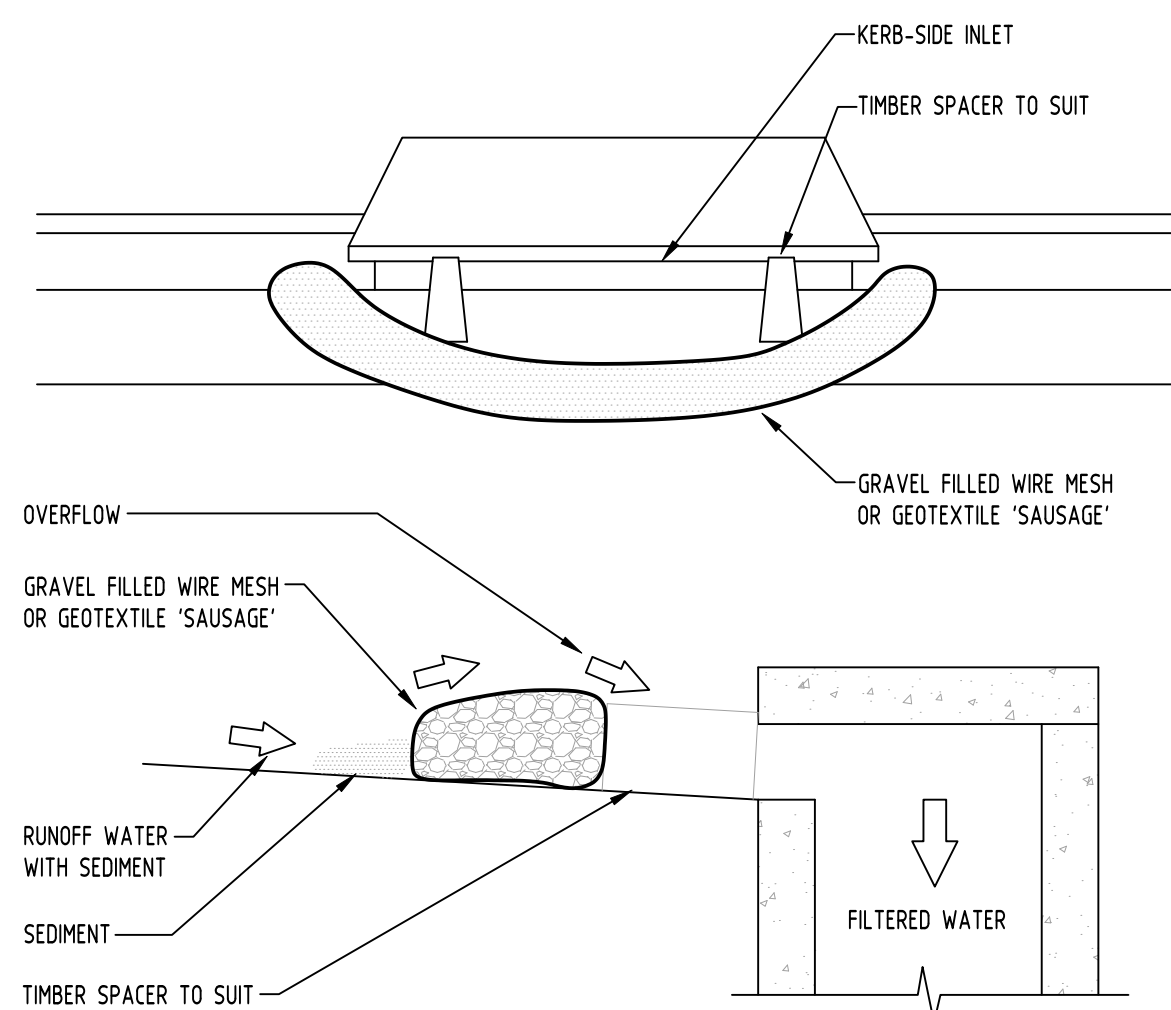


1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (E.G. HUNES PROPELX STI STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. 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.

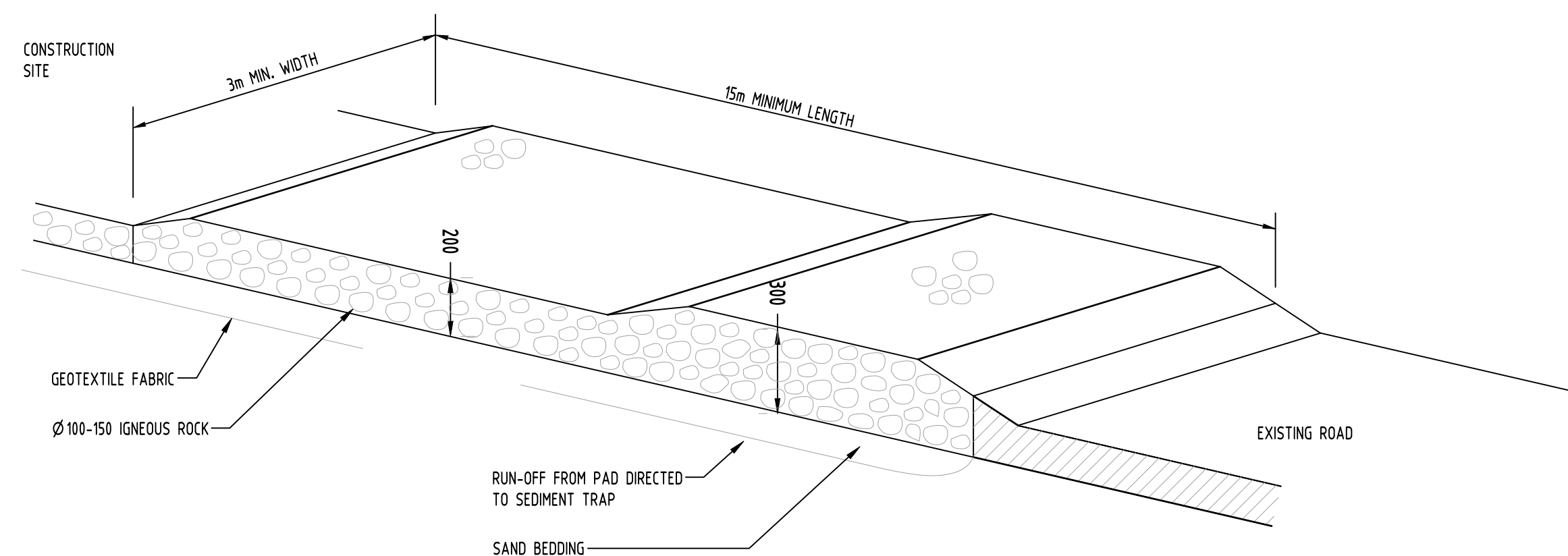
1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.

A SYSTEM SHALL BE INSTALLED TO EITHER:

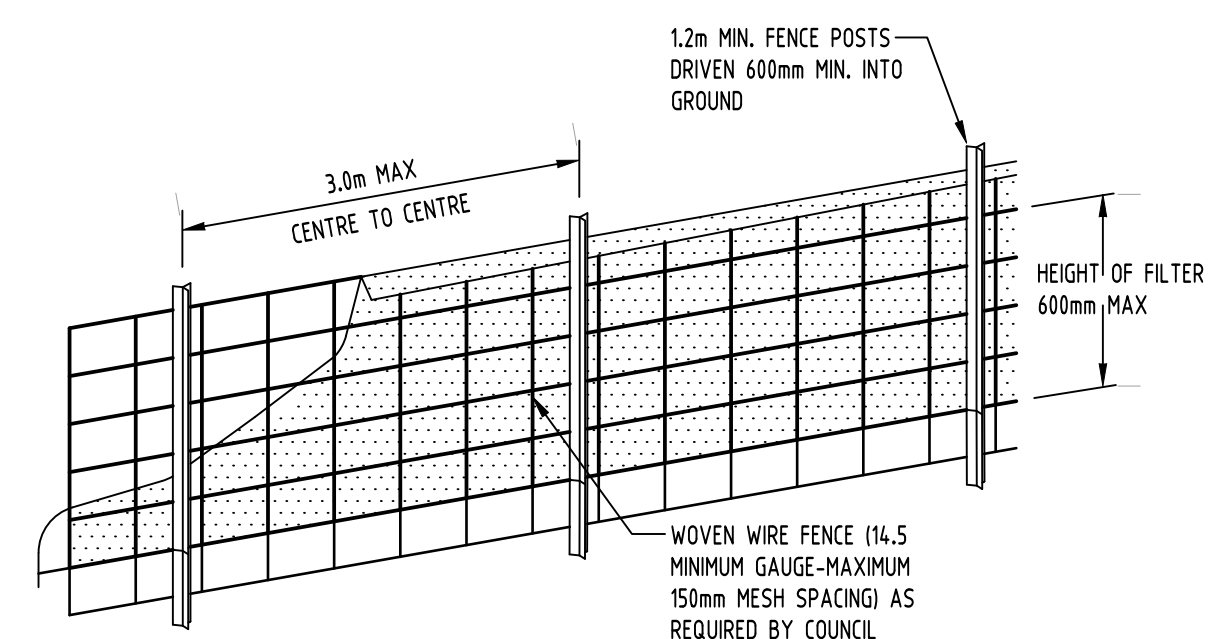
1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE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



GRAVEL INLET FILTER (SAUSAGE)
NOT TO SCALE



NOT TO SCALE



1.2m MIN FENCE POST

WOVEN WIRE FENCE WITH FILTER CLOTH OVER

600 MIN

200

EMBEDDED FILTER CLOTH MINIMUM

200

TYPICAL SECTION

SEDIMENT FENCE
NOT TO SCALE

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTRUCTION NOT ENTER THE PITS.

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PROJECT
MIXES USE DEVELOPMENT
EAST VILLAGE STREET,
JORDAN SPRINGS

Drawing Title

EROSION AND SEDIMENT CONTROL PLAN AND DETAILS

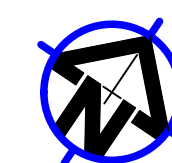
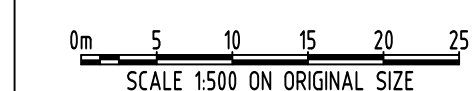
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20190092		SW400		A	
Sheet	Scale	Grid	Datum		
6 OF 6	1:500 @ A1	MGA 56	A.H.D.		

Drawing Status

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Scales



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