

50 LAWRENCE STREET, FRESHWATER NSW

MIXED-USE DEVELOPMENT

STORMWATER DRAINAGE

CONCEPT PLAN

AUTHORITY STORMWATER NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVEL PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDENT.
2. ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTRELINE OF FENCE/BOLARD/PIPE.
3. SMOOTH ALL TRANSITION BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
4. 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.
5. NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL PROVIDE CERTIFICATION AND COMPACTIONS 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

SELECT FILL (LESS THAN 300mm FOLLOW BASE COURSE)

98% MODIFIED

BASE COURSE

100% MODIFIED
7. THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

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.
- ALL PITS TO HAVE 600 x 600mm INTERNAL DIMENSIONS (U.N.O).
- SILT ARRESTORS TO HAVE 900 x 900mm INTERNAL DIMENSIONS.
- 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 LIP.
- ALL PITS SHALL BE MAINTAINED REGULARLY.
- TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER.
- MAXIMUM FRONT ENTRY PIPE:-

STRAIGHT ENTRY - Ø750

SKEW ENTRY - Ø525

- 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 32 MPa AT 28 DAYS.
- PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.
- ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS.
- ALL TRENCH GRATES PROVIDED SHALL HAVE MINIMUM CLEAR WIDTH OF 200mm.
- STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.
- THESE STORMWATER DRAWINGS SHALL BE IN ACCORDANCE WITH AS 3500.3 AND LOCAL COUNCIL REQUIREMENTS.



LOCALITY MAP (COURTESY OF SIX MAPS)

DRAWING REGISTER		
NO.	TITLE	REV.
SW.01	COVER SHEET	A
SW.02	STORMWATER DRAINAGE CONCEPT PLAN - GROUND LEVEL	A
SW.03	STORMWATER DRAINAGE CONCEPT PLAN - LEVEL ONE	A
SW.04	OSD TANK DETAILS	A
SW.05	STORMWATER DETAILS	A
SW.06	EROSION SOIL & SEDIMENT CONTROL PLAN	A
SW.07	EROSION SOIL & SEDIMENT CONTROL DETAILS	A

ABBREVIATIONS

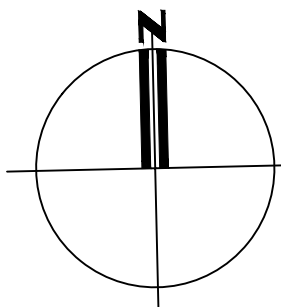
Ø OR DIA	DIAMETER
CNR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTRE LINE
CO	CLEAR OUT
DD	DISH CROSSING
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
®	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OPF	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT

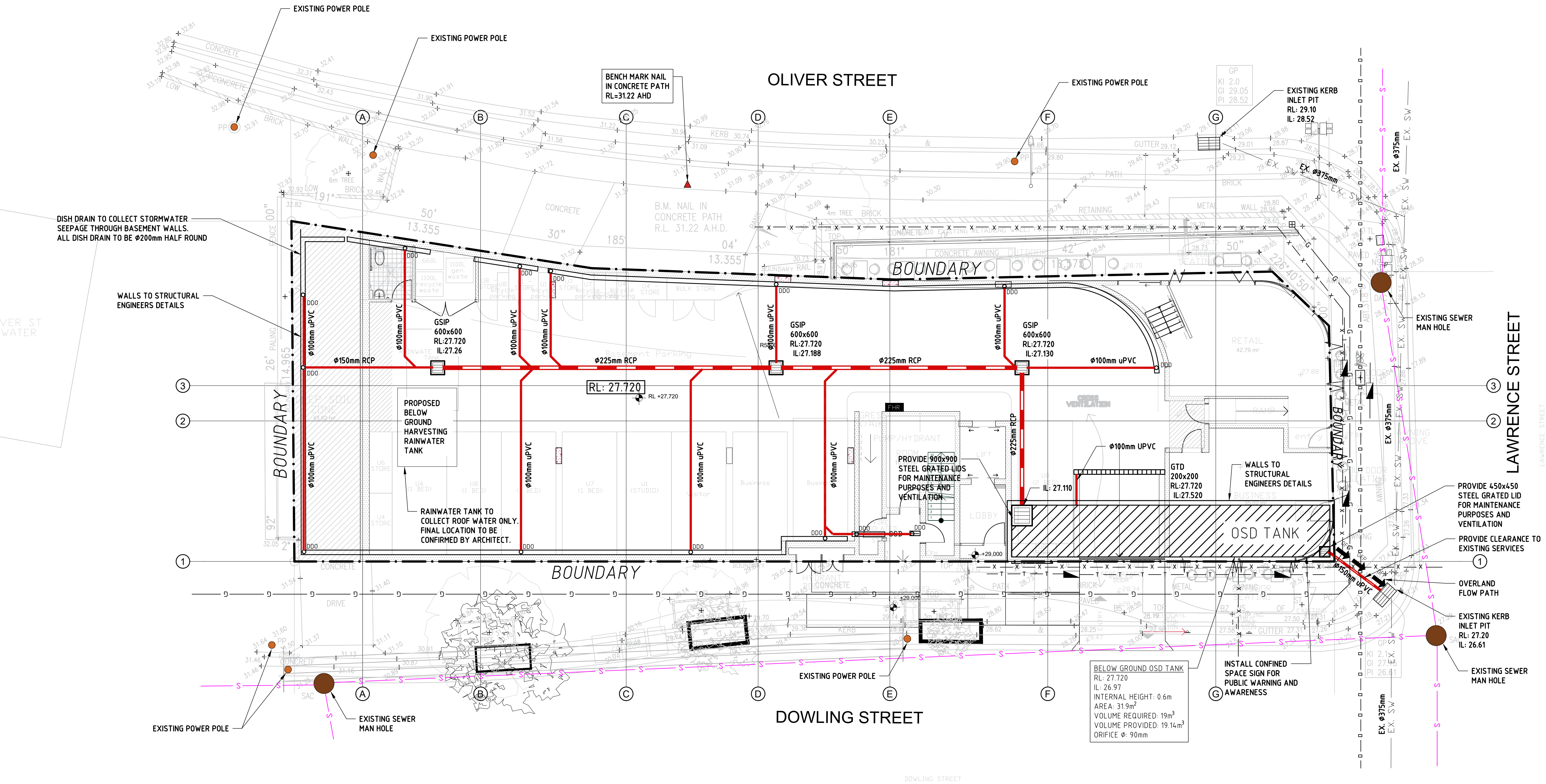
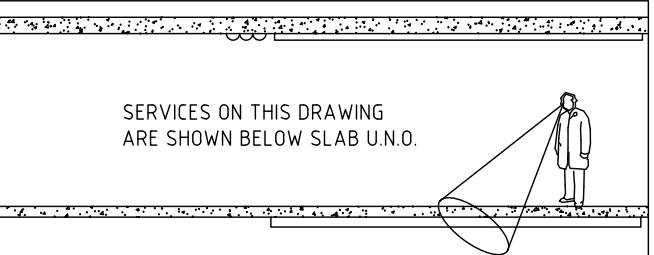
A	FOR DA APPROVAL	SL	24.03.21
ISSUE	DESCRIPTION	APPROVED	DATE

ARCHITECT	CKDSARCHITECTURE
1 / 28 ADELAIDE ST, EAST GOSFORD NSW 2250 (02) 4321 0503	

KYSU Structural & Civil Engineers 48 HIGH STREET, BANKSTOWN NSW 2200 tel: 0432 294 694 email: sluu@kysuengineers.com		
PROJECT 50 LAWRENCE STREET FRESHWATER NSW		
TITLE COVER SHEET		
SCALES as noted @ A1	DATE MAR. 2021	
DRAWN S.L	DESIGN S.L	APPROVED S.L
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ISSUE A	PROJECT No. 1037	DRAWING No. SW.01

DA ISSUE
NOT FOR CONSTRUCTION





STORMWATER DRAINAGE CONCEPT PLAN - GROUND LEVEL
SCALE 1:100

LEGEND	
	AUTHORITY SEWER LINE
	AUTHORITY UNDERGROUND ELECTRICAL LINE
	TELSTRA LINE
	NBN LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	SUBSOIL DRAINAGE LINE
	STORMWATER LINE
	EXISTING STORMWATER LINE
	GRATED SURFACE INLET PIT
	TELEPHONE PIT
	DOWNPipe
	DISH DRAIN OUTLET
	KERB INLET PIT

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.

NOTE: EXISTING SERVICES SHOWN ON PLAN ARE INDICATIVE ONLY. CONTRACTOR TO DETERMINE EXACT SIZE, LOCATION AND DEPTH BEFORE COMMENCING ANY WORKS.

ALL EXISTING DRAINAGE IS TO BE INSPECTED BY A REGISTERED PLUMBER AND CERTIFY THAT IT IS IN GOOD WORKING CONDITION. OTHERWISE, ALLOW TO RECTIFY AND/OR REPLACE AS NECESSARY.

NOTE: ALL DOWNPIPES, BALCONY AND ROOF DRAINAGE IS TO BE CONNECTED TO THE ON-SITE DETENTION TANK.

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ISSUE	DESCRIPTION	APPROVED	DATE

ARCHITECT

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PROJECT

50 LAWRENCE STREET
FRESHWATER NSW

TITLE

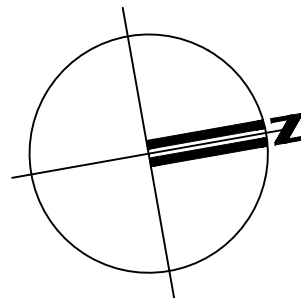
STORMWATER DRAINAGE CONCEPT
PLAN - GROUND LEVEL

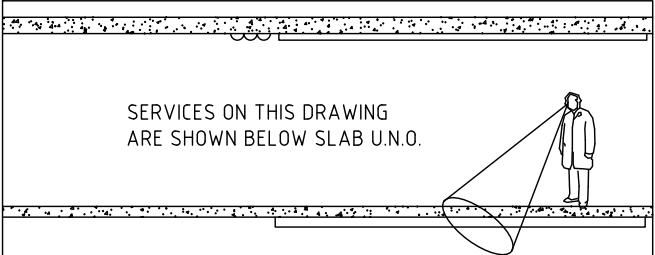
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DRAWN	S.L	DESIGN	S.L
APPROVED	S.L		

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ISSUE	PROJECT No.	DRAWING No.
A	1037	SW.02

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LEGEND	
	AUTHORITY SEWER LINE
	AUTHORITY UNDERGROUND ELECTRICAL LINE
	TELSTRA LINE
	NBN LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	SUBSOIL DRAINAGE LINE
	STORMWATER LINE
	EXISTING STORMWATER LINE
	GRATED SURFACE INLET PIT
	TELEPHONE PIT
	DOWNPIPE
	PLANTER DRAIN
	KERB INLET PIT

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PROJECT
**50 LAWRENCE STREET
FRESHWATER NSW**

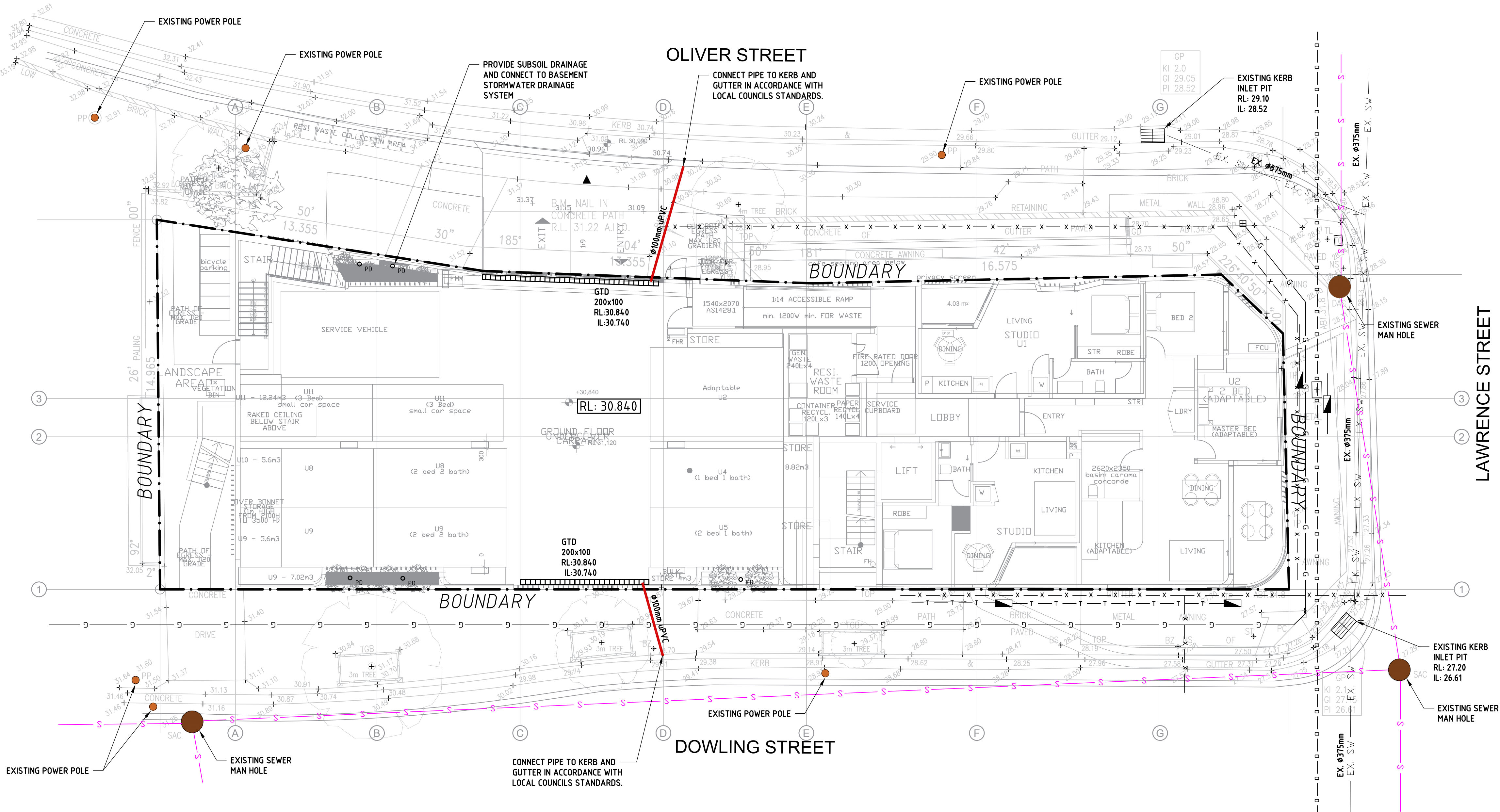
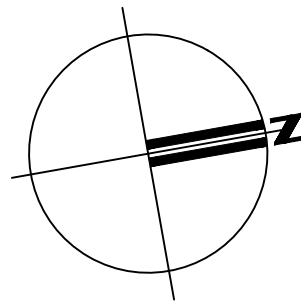
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**STORMWATER DRAINAGE CONCEPT
PLAN - LEVEL ONE**

SCALES	as noted @ A1	DATE	MAR. 2021
DRAWN	S.L	DESIGN	S.L
APPROVED	S.L		

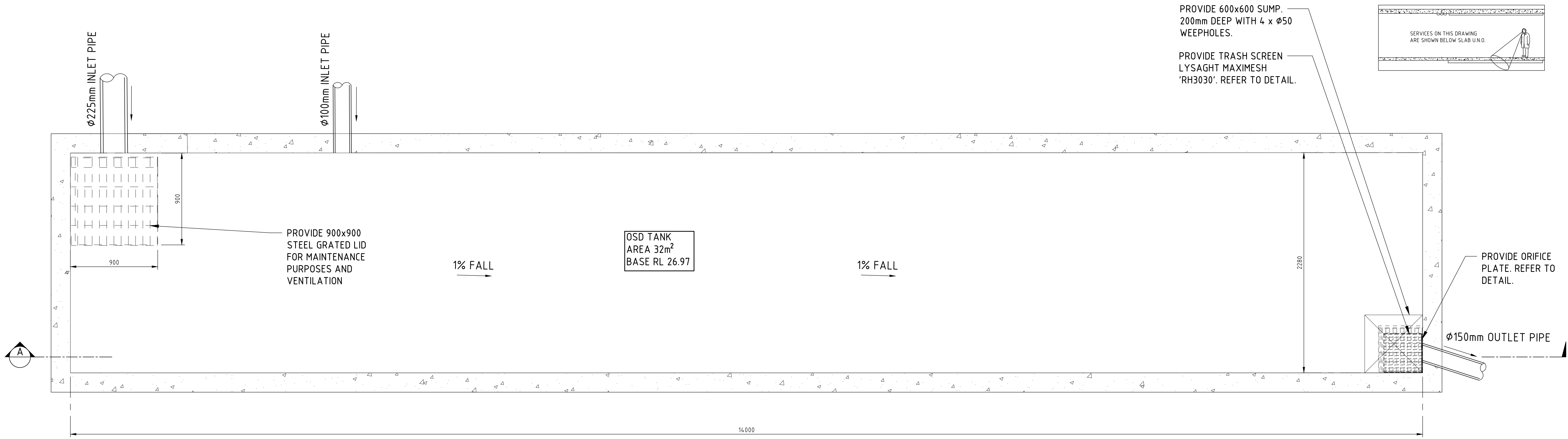
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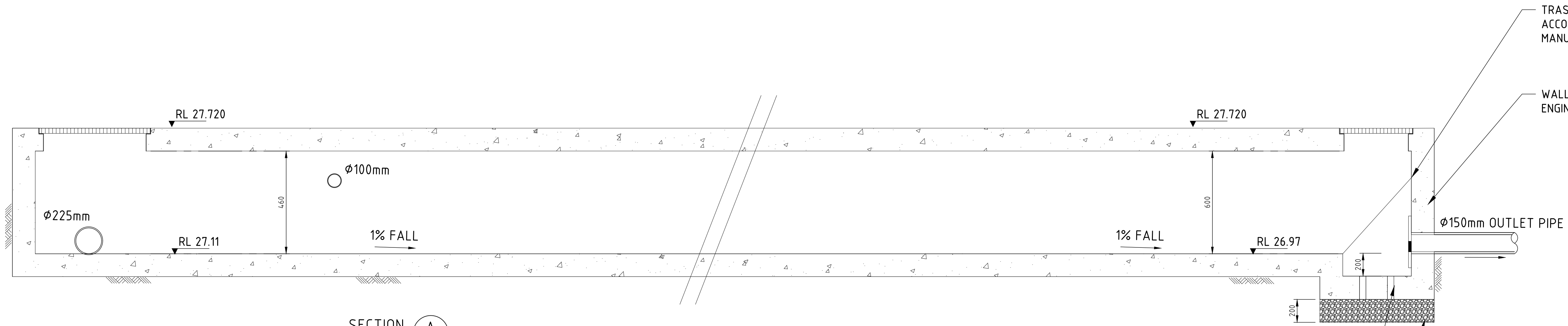
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STORMWATER DRAINAGE CONCEPT PLAN - LEVEL ONE
SCALE 1:100



OSD TANK PLAN
SCALE 1:20



SECTION A
SCALE 1:20

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48 HIGH STREET, BANKSTOWN NSW 2200 tel: 0432 294 694 email: sluu@kysuengineers.com			
PROJECT			
50 LAWRENCE STREET FRESHWATER NSW			
TITLE			
OSD TANK DETAILS			
SCALES		DATE	
as noted @ A1		MAR. 2021	
DRAWN	DESIGN	APPROVED	
S.L	S.L	S.L	
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ISSUE	PROJECT No.	DRAWING No.	
A	1037	SW.04	

DESIGN NOTES:

THE SITE IS LOCATED IN THE MUNICIPAL OF NORTHERN BEACHES COUNCIL.

SITE AREA = 590m²

OSD WAS DESIGNED USING DRAINS. THE RESULTS ARE SHOWN IN THE 'POST-DEVELOPMENT OSD REQUIREMENTS' TABLE. IN CONJUNCTION, THE OSD TANK DESIGN HAS BEEN DESIGNED IN ACCORDANCE WITH WARRINGAH COUNCIL'S ONSITE STORMWATER DETENTION TECHNICAL SPECIFICATION.

MODELLING PARAMETERS:

FROM WARRINGAH COUNCIL'S STORMWATER CODE, TABLE 2B,

SITE AREA = 600m²

SSR = 19m³

PSD (Q5 MAX) = 18 L/s

PSD (Q100 MAX) = 36 L/s

MAX OVERFLOW = 18 L/s

PRE-DEVELOPMENT CATCHMENT= 61% IMPERVIOUS.

39% PERVIOUS.

POST-DEVELOPMENT CATCHMENT= 100% IMPERVIOUS.

0% PERVIOUS.

TIME OF CONCENTRATION (PAVED) = 1 min(s)

TIME OF CONCENTRATION (GRASSED) = 5 min(s)

OSD DESIGN PARAMETERS:

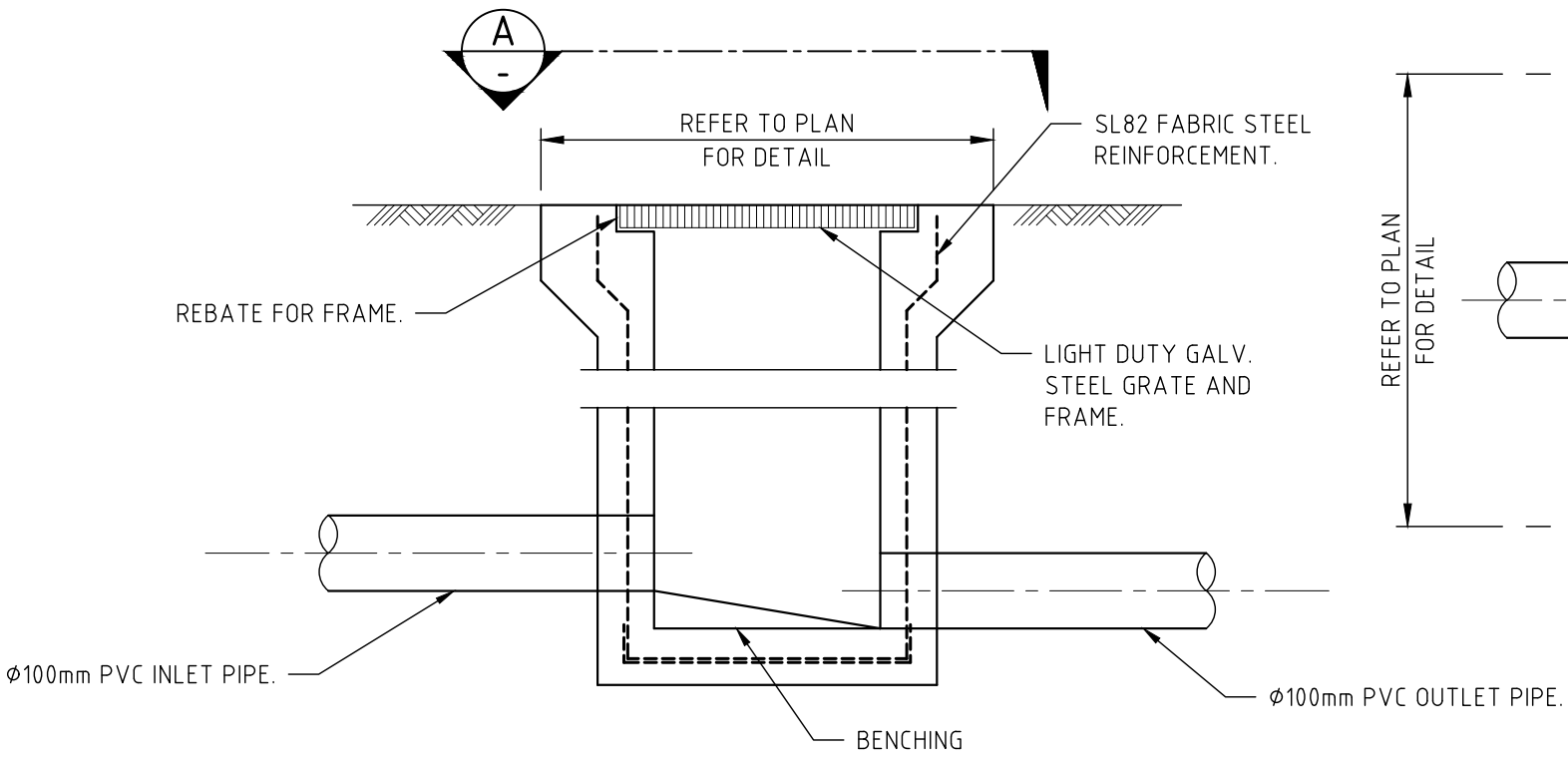
1. THE PRE/POST-DEVELOPMENT IMPERVIOUS AREA WAS MEASURED THROUGH AUTOCAD.

2. THE RAINFALL DATA WAS CALCULATED AND OBTAINED BY THE BUREAU OF METEOROLOGY, AUSTRALIA FOR THE RESPECTIVE LOCATION OF THE SITE.

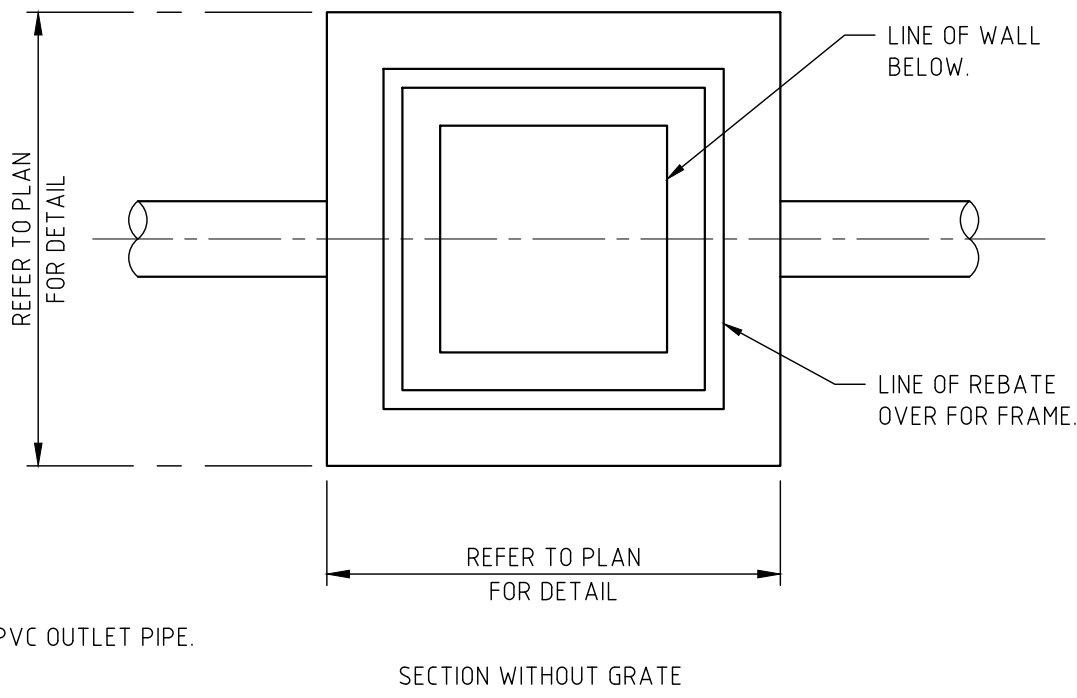
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- LONGITUDE: 150.283598

POST-DEVELOPMENT OSD REQUIREMENTS.

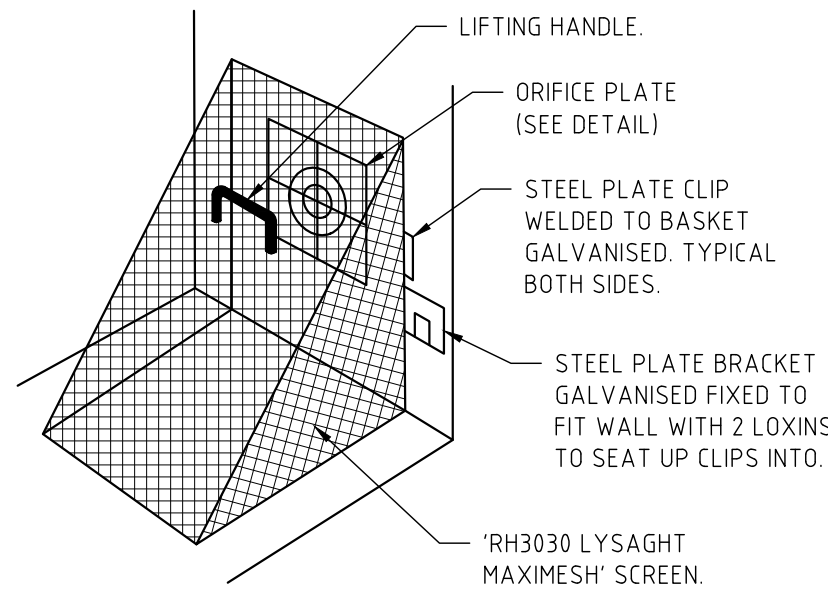
LOT AREA (m ²)	PRE-DEV. IMPERVIOUS (%)	POST-DEV. IMPERVIOUS (%)	STORM (YR)	PRE-DEV. FLOW (m ³ /s)	POST-DEV. FLOW (m ³ /s)	PIPE OUTFLOW (m ³ /s)	WEIR OUTFLOW (m ³ /s)	TOTAL PSD (m ³ /s)	OSD VOLUME (m ³)
590	61	100	5	0.014	0.025	0.011	0.000	0.011	19
			10	0.020	0.029	0.013	0.000	0.013	
			20	0.024	0.033	0.014	0.000	0.014	
			50	0.028	0.039	0.016	0.000	0.016	
			100	0.031	0.043	0.017	0.000	0.017	



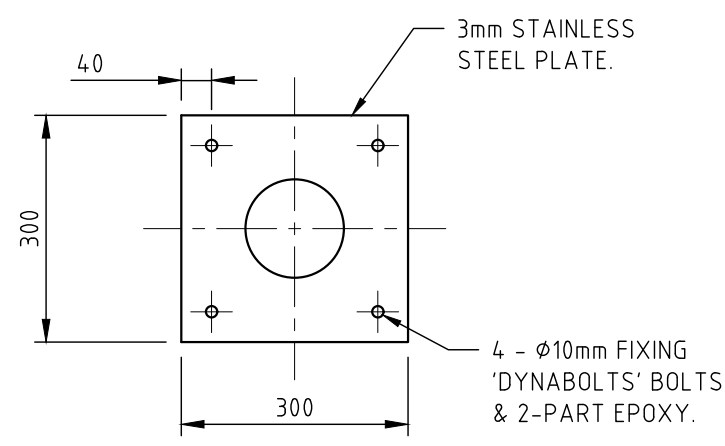
STORMWATER PIT DETAIL
SCALE 1:10



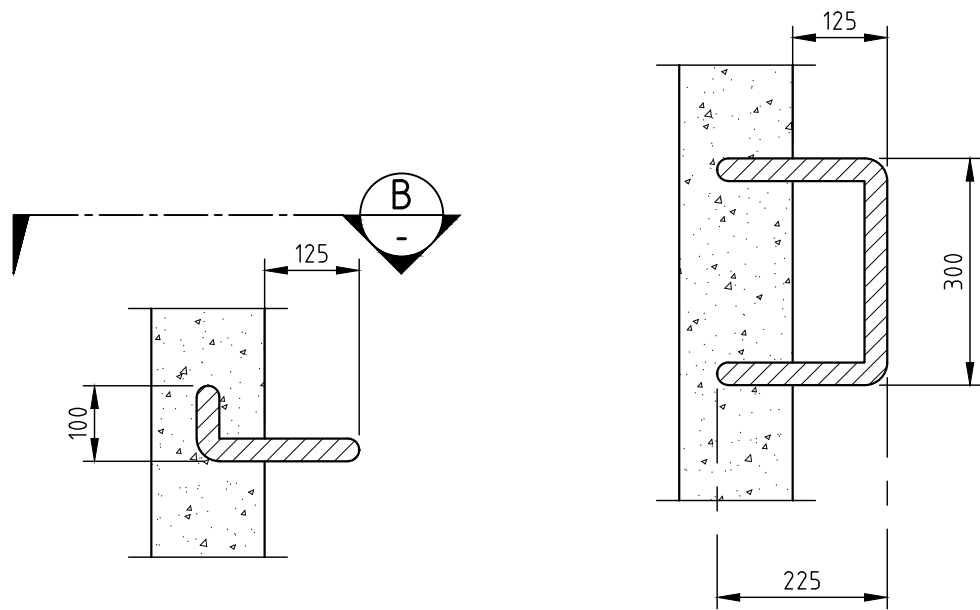
SECTION A
SCALE 1:10



DEBRIS SCREEN DETAIL
NOT TO SCALE

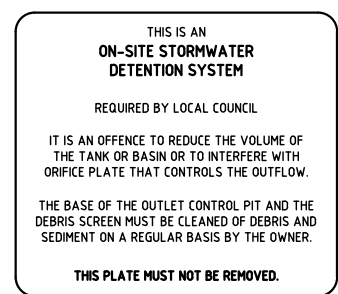


ORIFICE PLATE DETAIL
SCALE 1:10

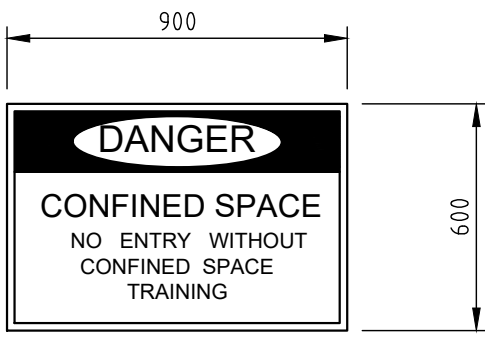


STEP IRONS DETAIL
SCALE 1:10

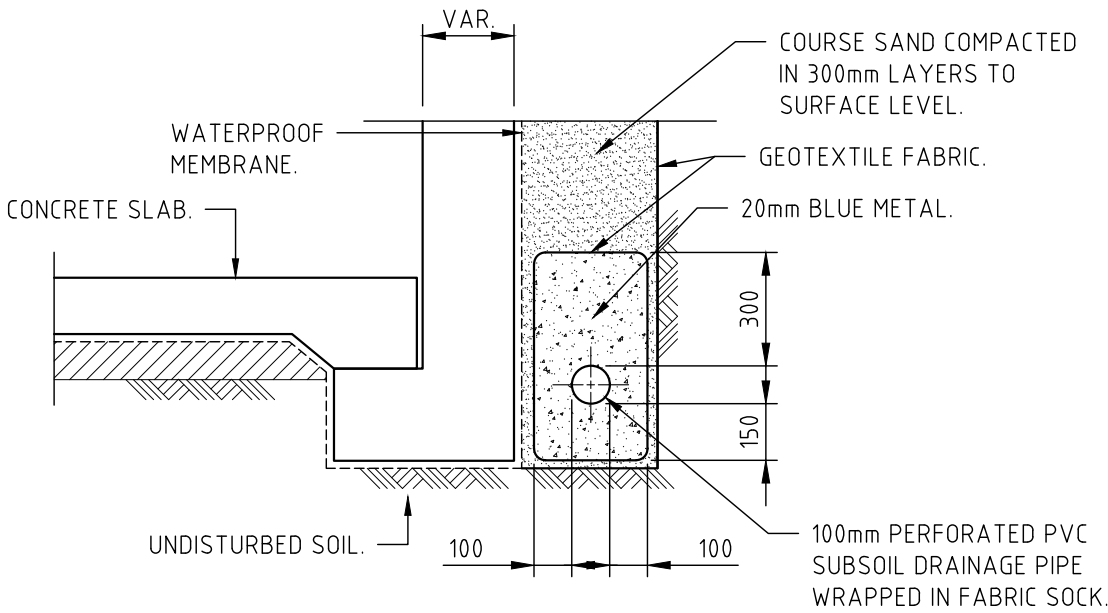
SECTION B
SCALE 1:10



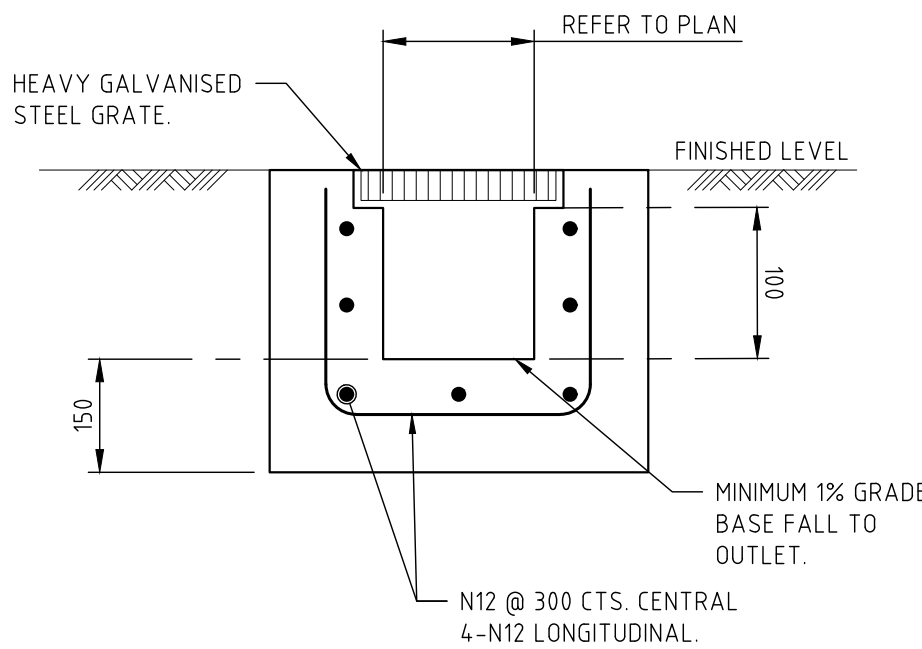
OSD SIGN DETAIL
NOT TO SCALE



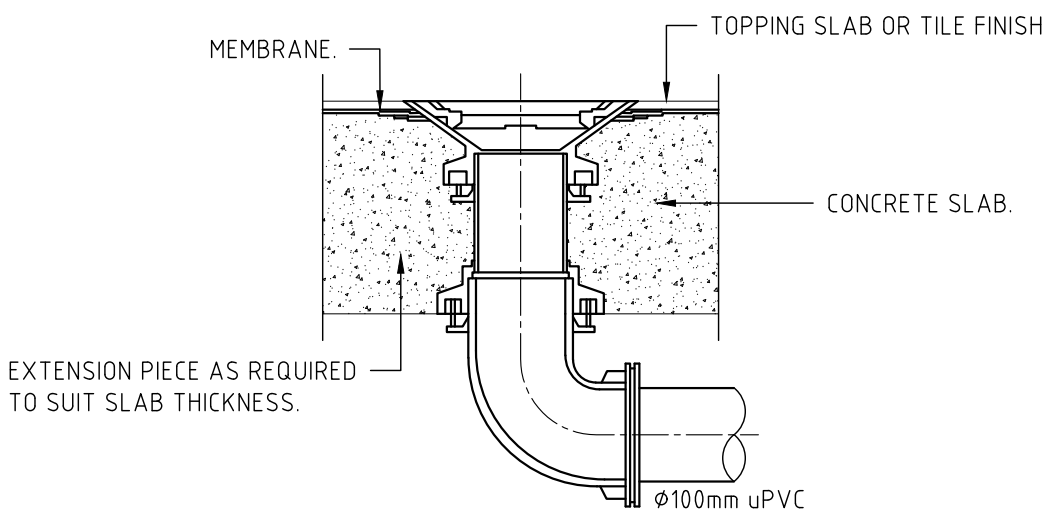
CONFINED SPACE SIGN DETAIL
NOT TO SCALE



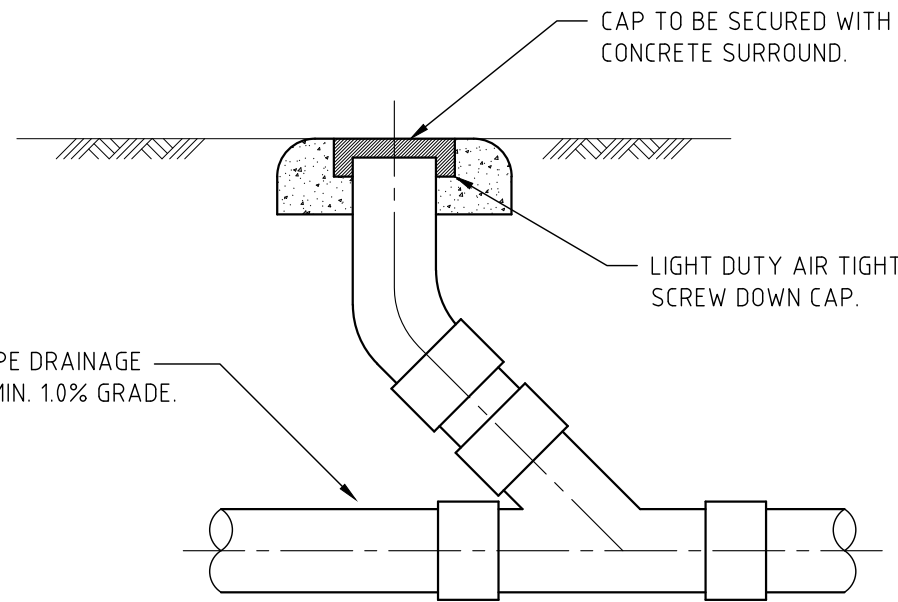
TYPICAL SUBSOIL DRAINAGE DETAIL
SCALE 1:20



TYPICAL GRATED DRAIN DETAIL
NOT TO SCALE



RAINWATER OUTLET DETAIL
NOT TO SCALE

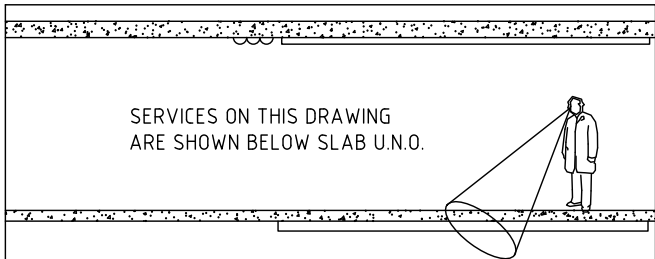


CLEANING EYE DETAIL
SCALE 1:10

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PROJECT 50 LAWRENCE STREET FRESHWATER NSW	
TITLE STORMWATER DETAILS	
SCALES as noted @ A1	DATE MAR. 2021
DRAWN S.L	DESIGN S.L
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ISSUE A	DRAWING No. SW.05



GENERAL NOTES.

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.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

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 THE LOCAL COUNCIL.

EROSION & SEDIMENTATION CONTROL NOTES

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 (EG. HUMES PROPEX SILT 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 MATERIAL 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.

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ISSUE	DESCRIPTION	APPROVED	DATE

ARCHITECT

CKDS ARCHITECTURE

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PROJECT

**50 LAWRENCE STREET
FRESHWATER NSW**

TITLE

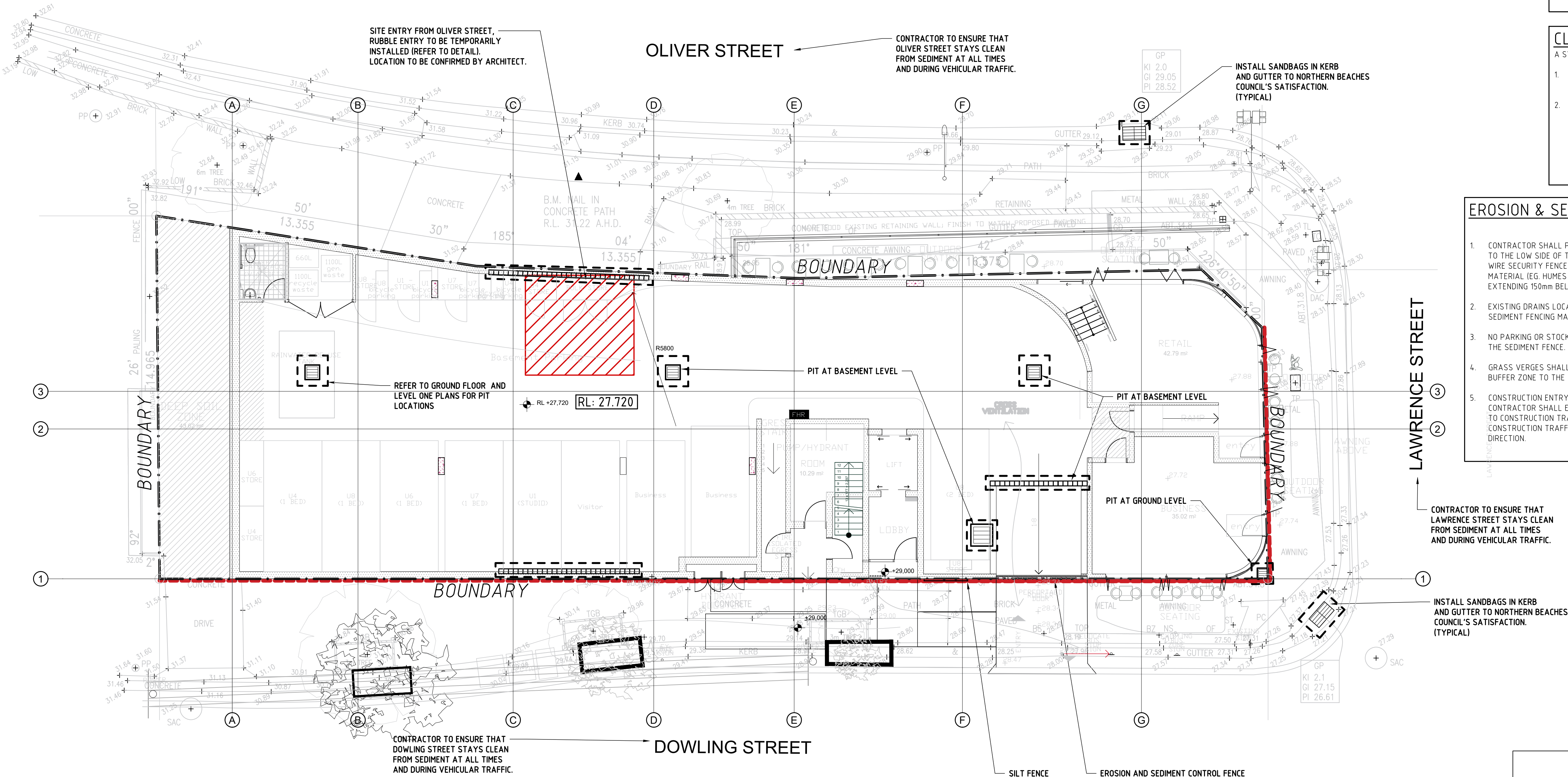
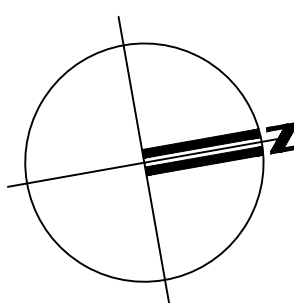
**EROSION SOIL & SEDIMENT
CONTROL PLAN**

SCALES	as noted @ A1	DATE	MAR. 2021
DRAWN	S.L	DESIGN	S.L
APPROVED	S.L		

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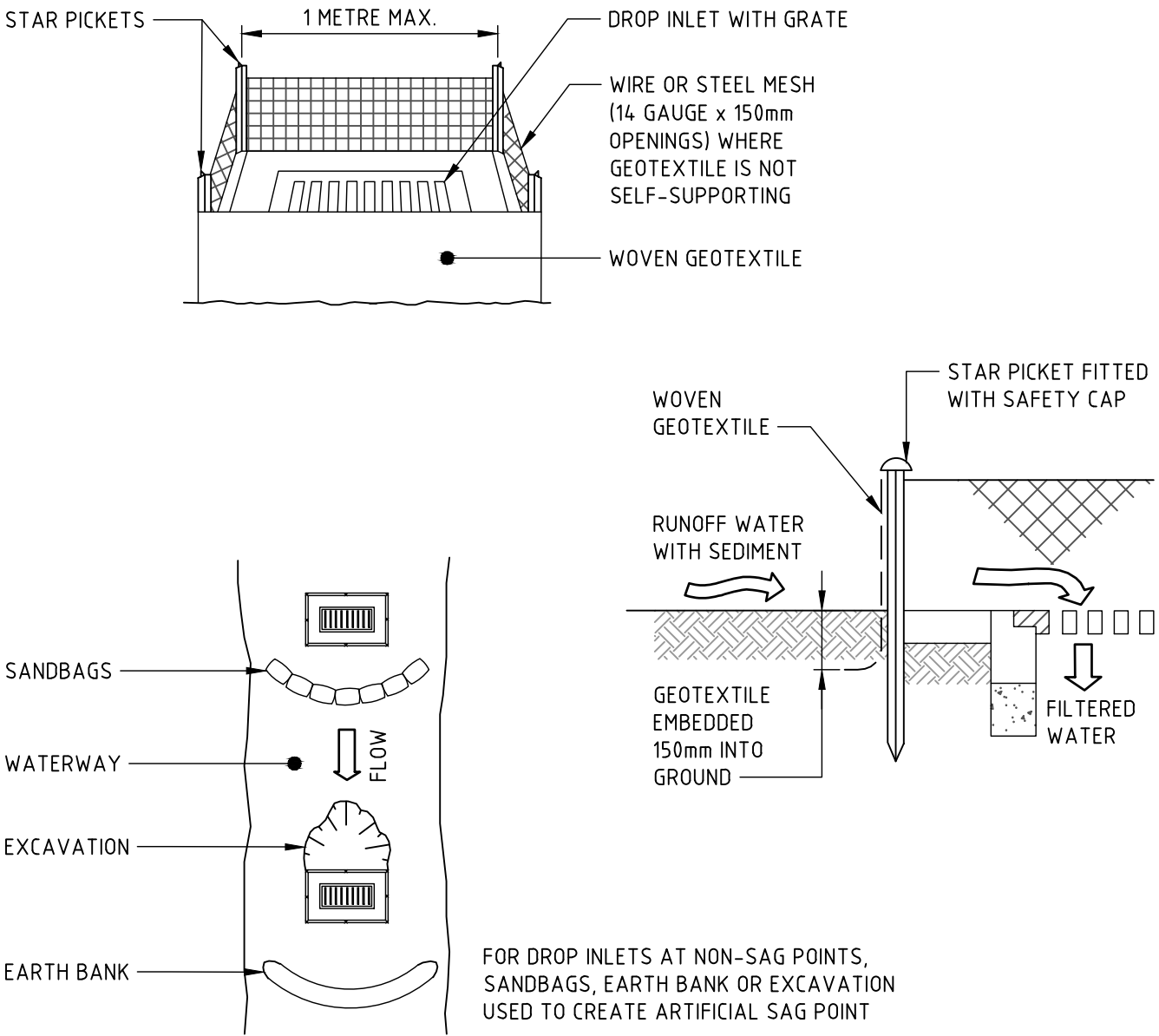
ISSUE	PROJECT No.	DRAWING No.
A	1037	SW.06

DA ISSUE
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EROSION SOIL AND SEDIMENT CONTROL PLAN

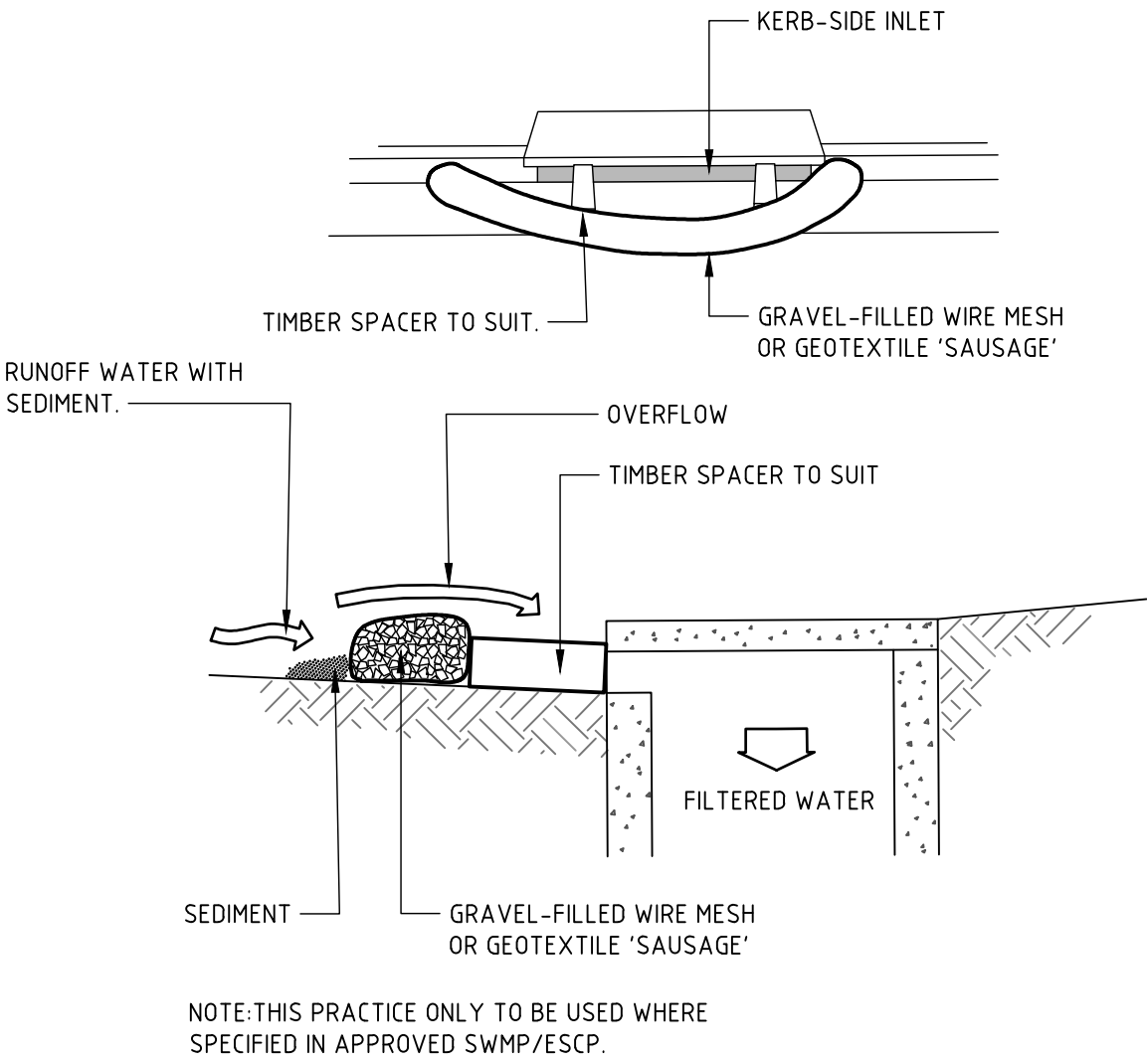
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CONSTRUCTION NOTES

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

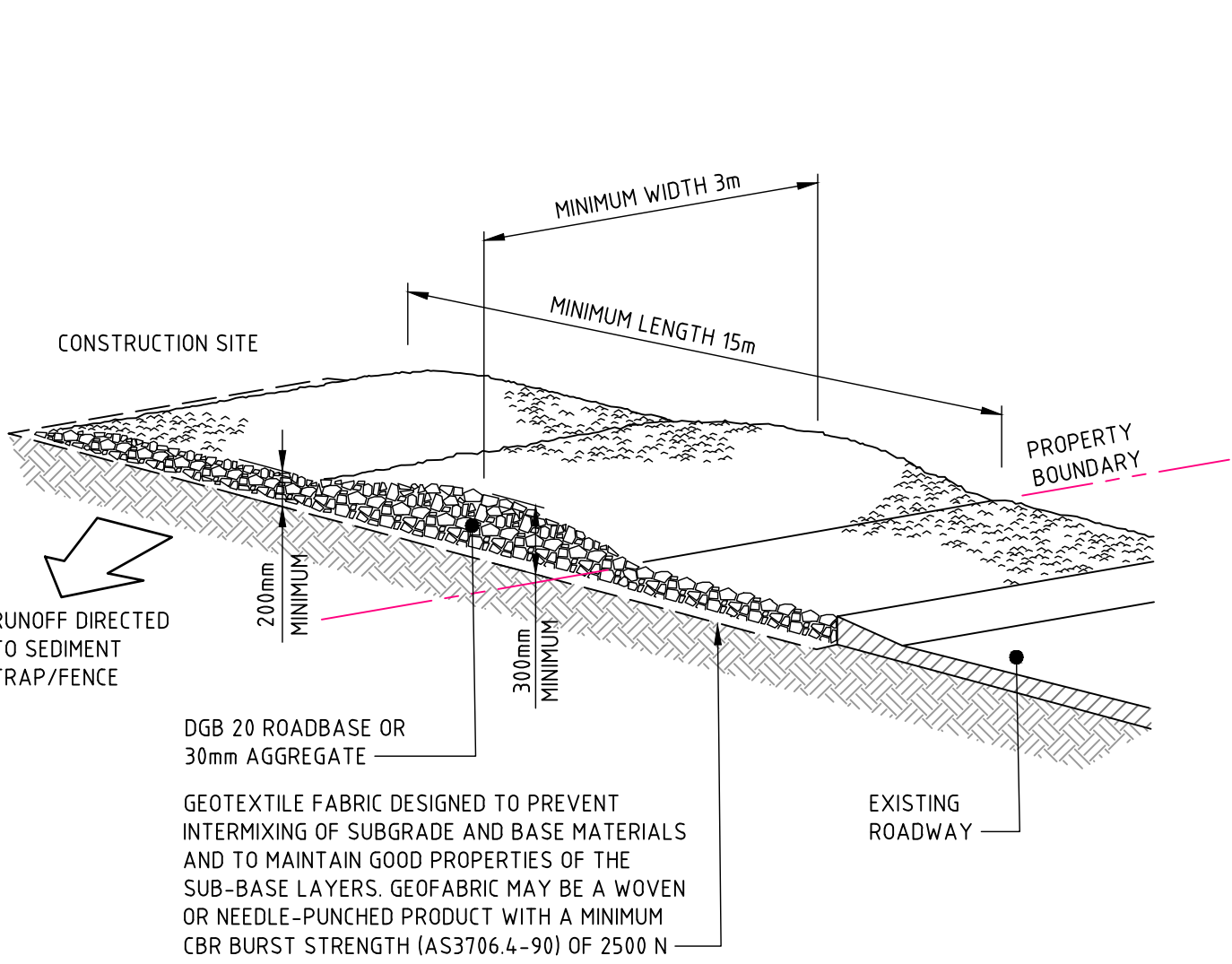
GEOTEXTILE INLET FILTER TRAPS



CONSTRUCTION NOTES

- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

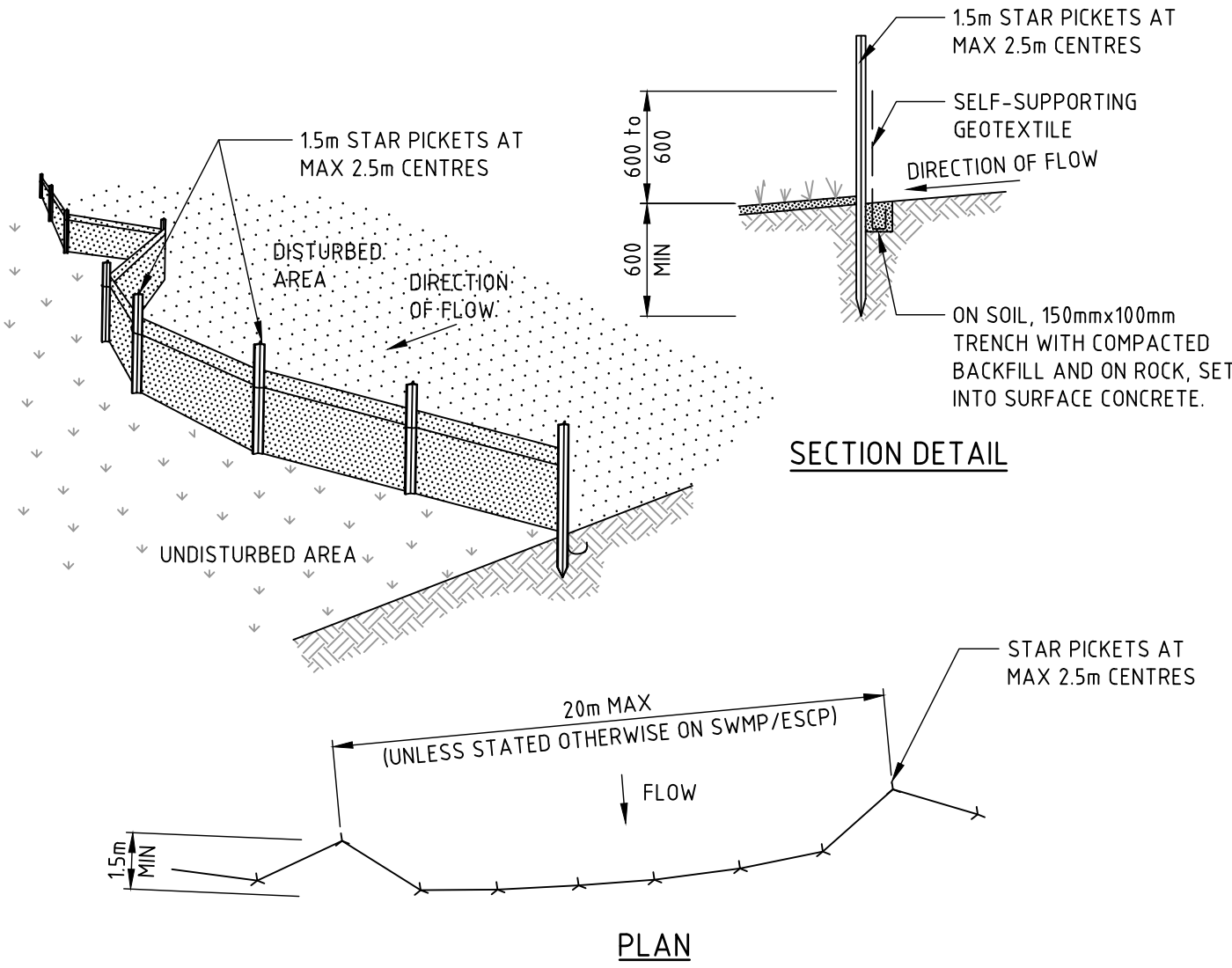
WIRE MESH AND GRAVEL SEDIMENT FILTER



CONSTRUCTION NOTES

- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS



CONSTRUCTION NOTES

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

A	FOR DA APPROVAL	SL	24.03.21
ISSUE	DESCRIPTION	APPROVED	DATE

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PROJECT

50 LAWRENCE STREET
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TITLE

EROSION SOIL & SEDIMENT
CONTROL DETAILS

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