

HARRIS PAGE & ASSOCIATES

STORMWATER CONCEPT PLAN

FOR DEVELOPMENT APPLICATION OF

ASCHAM SCHOOL

19 DARLING POINT ROAD, SYDNEY NSW 2027 AUSTRALIA

STORMWATER SERVICES LEGEND

PIPEWORK

	STORMWATER DRAINAGE
	SILT FENCE

DRAWING SCHEDULE

DWG No.	Scale	Drawing Title
SW-00	NTS	STORMWATER SERVICES COVER SHEET, LEGEND & DRAWING SCHEDULE
SW-01	1:100	STORMWATER SERVICES- SITE PLAN
SW-02	NTS	STORMWATER SERVICES- PRE - POST DEVELOPMENT
SW-03	NTS	STORMWATER SERVICES- DETAIL SHEET
SW-04	NTS	STORMWATER SERVICES- SEDIMENT AND EROSION CONTROL PLAN



ABBREVIATIONS, SYMBOLS AND LINETYPES IN THE LEGEND MAY NOT APPEAR ELSEWHERE ON THE DRAWINGS. THIS LEGEND SHOULD BE USED AS A GUIDE ONLY

SYMBOLS

	RISER
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	DIRECTION ARROW
	NEW CONNECTION
	CONTINUATION
	OVERFLOW
	RAIN WATER OUTLET
	GRATED TRENCH DRAIN
	GRATED STW PIT
	SEALED STW PIT
	SPREADER
	CLEAR OUT
	REVISION
	REVISION CLOUD
	RISER
	SERVICE TYPE SERVICE SIZE
	DROPPER

ABBREVIATIONS

A/B	ABOVE	m	METRES
@	AT	MAX	MAXIMUM
BO	BALCONY OUTLET	MIN	MINIMUM
BT	BOUNDARY TRAP	MM	MILLIMETERS
CIS	CAST IN SLAB	N.T.S	NOT TO SCALE
CO	CLEAROUT	O/F	OVER FLOW
CONT	CONTINUATION	%	PERCENTAGE
CV	CHECK VALVE	RL	REDUCED LEVEL
DCV	DOUBLE CHECK VALVE	RWH	RAIN WATER HEAD
DPSP	DOWNPIPE SPREADER PIPE	RWR	RAINWATER REUSE
DIA	DIAMETER	RWO	RAINWATER OUTLET
DP	DOWNPIPE	RV	REFLUX VALVE
e	EXISTING	S	SEWER
EL	ELECTRICAL CONDUIT	SMH	SEWER MANHOLE
FW	FLOOR WASTE	SS	SUB SOIL DRAINAGE
GA	GREASE ARRESTOR	S/STEEL	STAINLESS STEEL
HDPE	HIGH DENSITY POLYETHYLENE	STW	STORMWATER
H/L	HIGH LEVEL	SV	STOP VALVE
HP	HIGH POINT	SWP	STORMWATER PIT
H.S.A.S	HEEL SAFE ANTI-SLIP	TD	TUNDISH
IL	INVERT LEVEL	U/S	UNDERSIDE
KIP	KERB INLET PIT	UV	ULTRA-VIOLET
L	LITRE		
L/L	LOW LEVEL		

LOCALITY PLAN

NOT TO SCALE - COURTESY OF GOOGLE MAPS

A	DA SUBMISSION ISSUE	29.09.23
ISSUE	AMENDMENT	

HYDRAULIC & FIRE SERVICES CONSULTANTS



HARRIS PAGE & Associates
PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6365
Email: info@harrispage.com.au ABN 008 548 098

PROJECT

1007 Ascham Boarding House
19 Darling Point Road, Edgecliff, NSW 2027, Australia

ARCHITECT

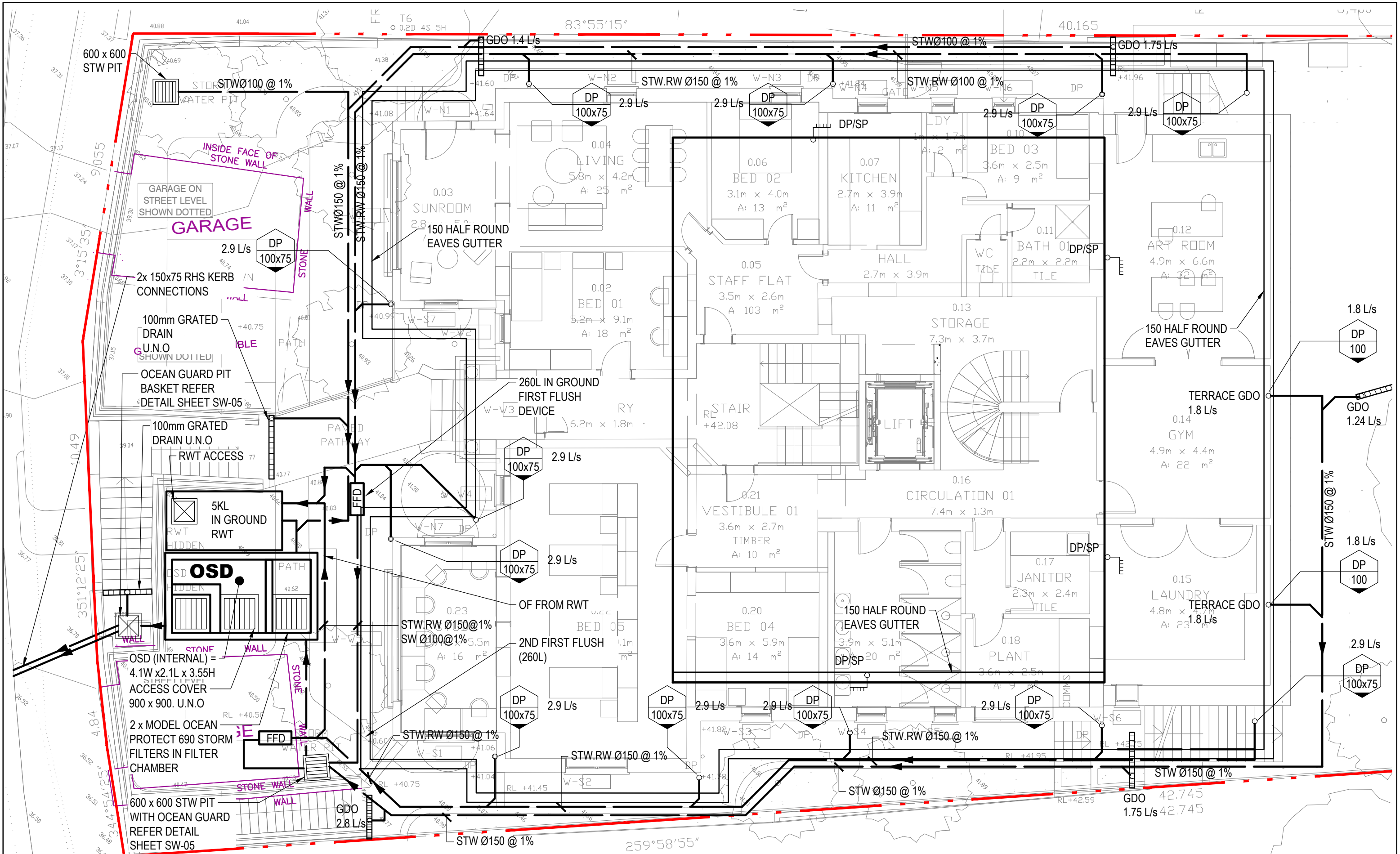


247 Devonshire Street, Surry Hills
NSW 2010
T + 61 2 9211 3211

DRAWING TITLE

HYDRAULIC SERVICES
COVER SHEET, LEGEND
& DRAWING SCHEDULE

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2022	KP	KJ	1 OF 5	NTS @A3
PROJECT No.		DRAWING No.		REVISION
7224		SW-00		A



B	DA SUBMISSION ISSUE	17.11.23
A	DA SUBMISSION ISSUE	29.09.23
ISSUE	AMENDMENT	

HYDRAULIC & FIRE SERVICES CONSULTANTS



HARRIS PAGE & Associates
PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6305
Email: info@harrispage.com.au ABN 008 548 098

PROJECT

1007 Ascham Boarding House
19 Darling Point Road, Edgecliff, NSW 2027, Australia

ARCHITECT

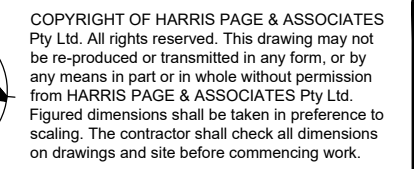


247 Devonshire Street, Surry Hills
NSW 2010
T + 61 2 9211 3211

DRAWING TITLE

HYDRAULIC SERVICES
SITE PLAN

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2022	KP	KJ	2 OF 5	1:100 @A3
PROJECT No.	DRAWING No.	REVISION		
7224	SW-01	B		



PRE DEVELOPMENT SITE AREA = 962m ²		
SECTION	AREA	TYPE
	390m ²	PERVIOUS
	572m ²	IMPERVIOUS



POST DEVELOPMENT SITE AREA = 962m ²		
SECTION	AREA	TYPE
	609m ²	IMPERVIOUS TO OSD
	40m ²	IMPERVIOUS OSD BY-PASS
	313m ²	PERVIOUS TO OSD

HYDRAULIC & FIRE SERVICES CONSULTANTS

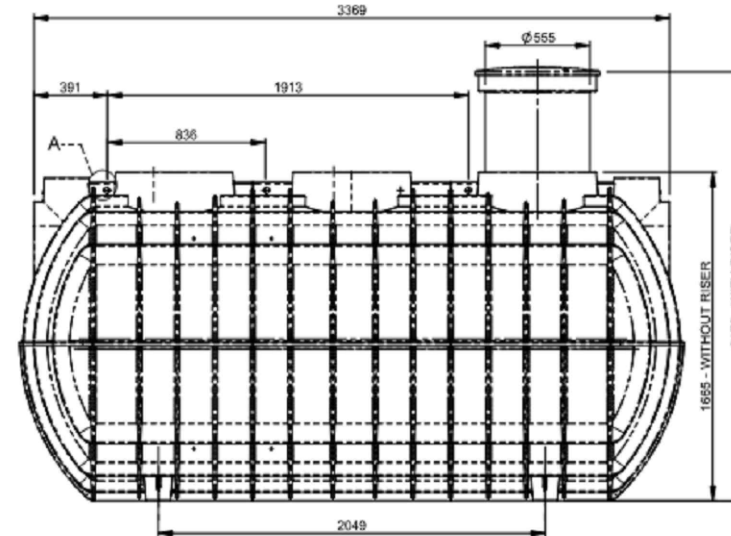
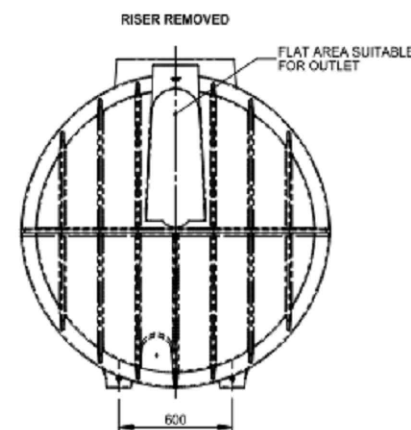
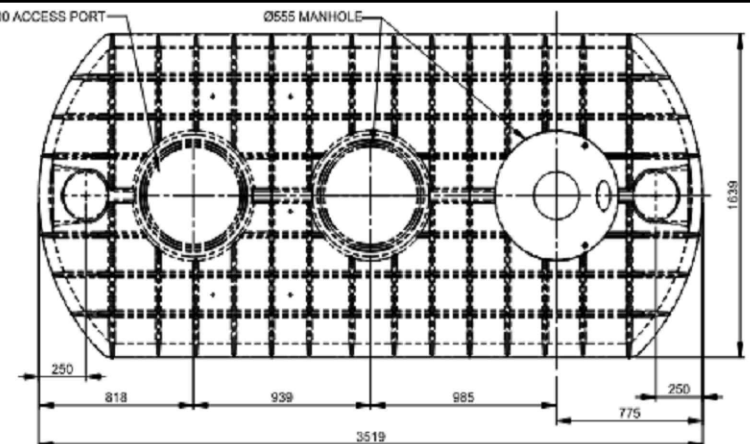
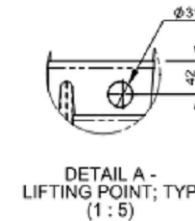
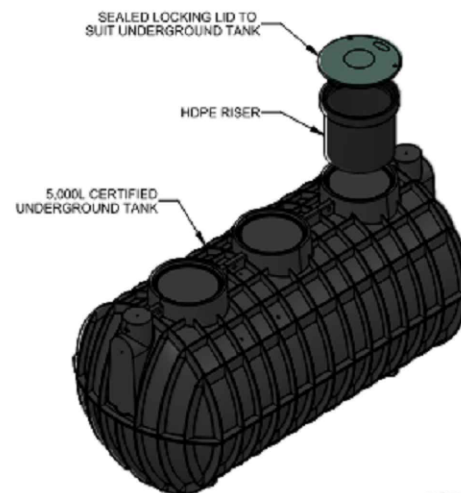
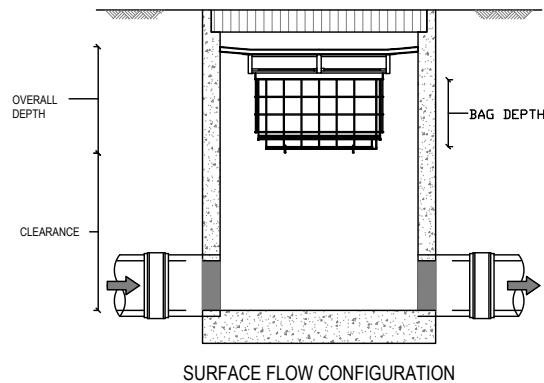
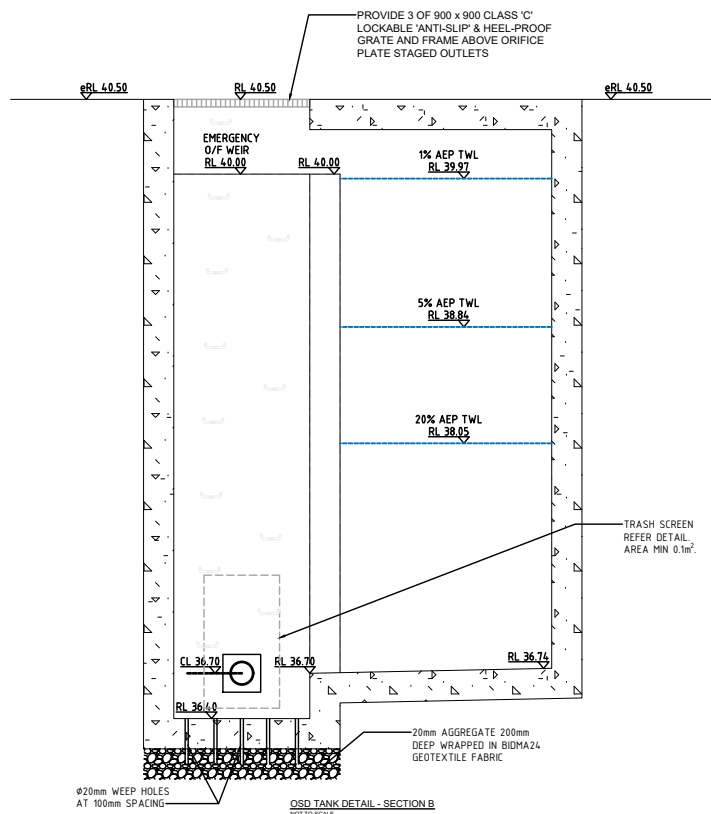
 **HARRIS PAGE & Associates
PTY LIMITED**
HYDRAULIC & FIRE CONSULTANTS

Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 098

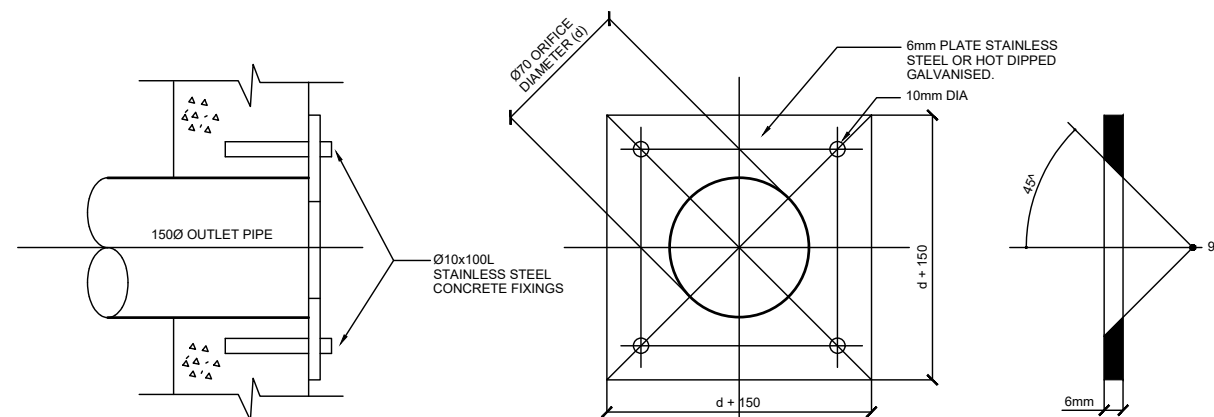
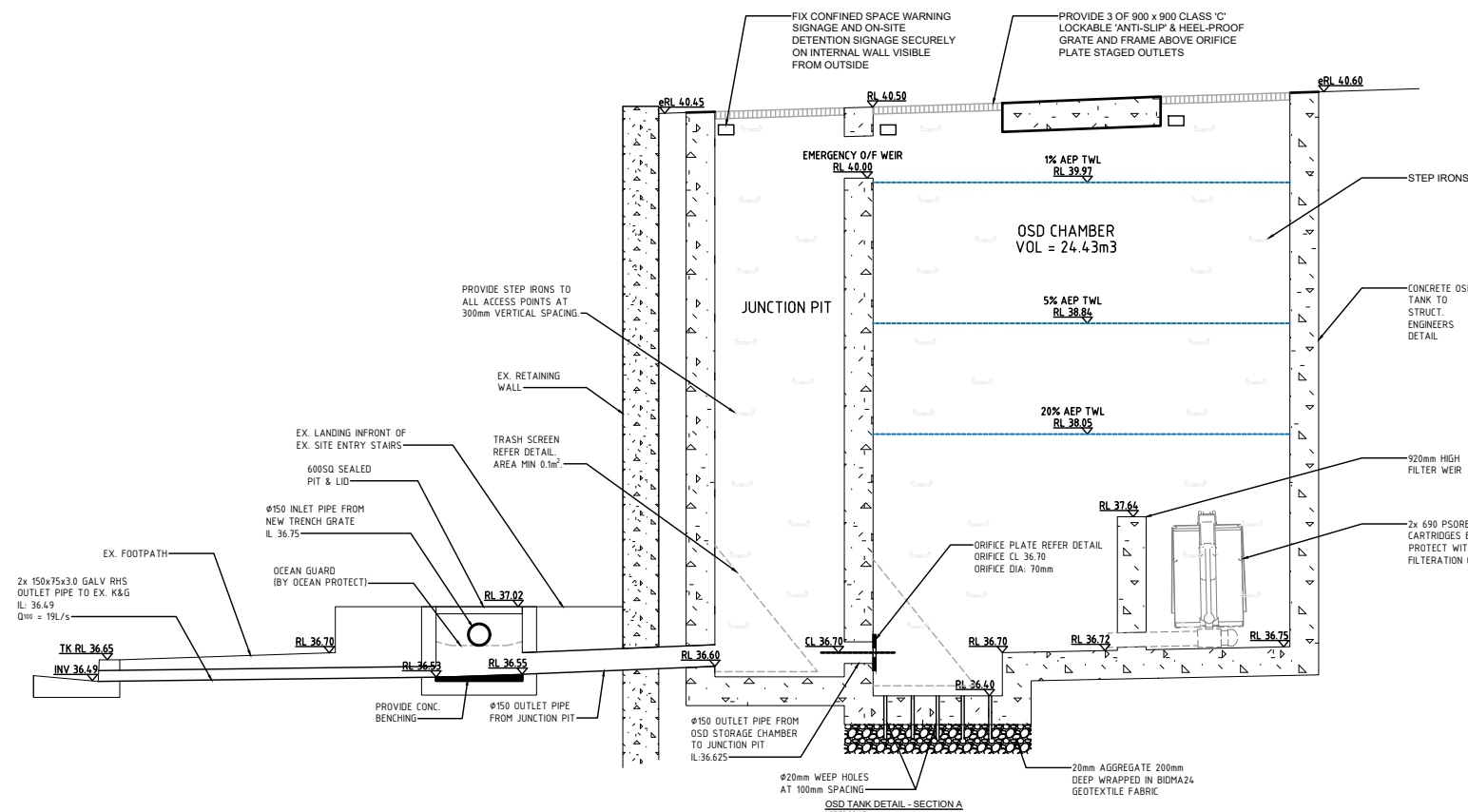
DRAWING TITLE

**HYDRAULIC SERVICES
PRE VS. POST DEVELOPMENT
CATCHMENT ANALYSIS**

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2022	KP	KJ	3 OF 5	1:100 @A3
PROJECT No.		DRAWING No.		REVISION
7224		SW-02		B



UNDERGROUND TANK DETAIL



ORIFICE PLATE DETAIL
SCALE: NTS

A	DA SUBMISSION ISSUE	29.09.23
ISSUE	AMENDMENT	

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates
PTY LIMITED

HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 098

PROJECT
1007 Ascham Boarding House
19 Darling Point Road, Edgecliff, NSW 2027, Australia

ARCHITECT
247 Devonshire Street, Surry Hills
NSW 2010
T + 61 2 9211 3211

Tribe Studio
Architects

DRAWING TITLE
HYDRAULIC SERVICES
DETAIL SHEET

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2022	KP	KJ	4 OF 5	NTS @A3
PROJECT No.	DRAWING No.	REVISION		
7224	SW-03	A		

SEDIMENT & EROSION CONTROL NOTES

1.

THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ENGINEERING PLANS AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
2.

THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS SHOWN ON THIS DRAWING.
3.

PROTECT ALL NEW PITS FROM SEDIMENT INFILTRATION PROGRESSIVELY, AS THEY ARE CONSTRUCTED.
4.

ALL DOWNSTREAM STORMWATER PITS ARE TO BE PROTECTED FROM SEDIMENT INFILTRATION DURING CONSTRUCTION.
5.

ALL SUB-CONTRACTORS ON SITE SHALL BE MADE AWARE OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO WATER COURSES AND WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO ACHIEVE,WORKS SHOULD BE CARRIED OUT AS FOLLOWS
6.

1) INSTALL ANY NECESSARY SECURITY/BOUNDARY FENCES FOR THE SITE

2) CONSTRUCT "SILT" FENCING AS DETAILED ALONG BOTH DOWNSLOPE BOUNDARIES.
7.

DURING WINDY WEATHER, LARGE UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8.

FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE, AND WITHIN TWENTY WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
9.

SAND USED IN THE CONCRETE CURING PROCESS SHALL BE REMOVED ASAP, AND WITHIN TEN WORKING DAYS FROM PLACEMENT.
10.

WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM, UNLESS IT IS RELATIVELY SEDIMENT-FREE:ie, THE CATCHMENT AREA HAS BEEN LANDSCAPED AND/ORANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
11.

TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
12.

THE CONTRACTOR SHALL PROVIDE ACCEPTABLE RECEPTORS FOR CONCRETE & MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
13.

RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER,ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
14.

EVERY WEEK, FOR THE DURATION OF WORKS THE CONTRACTOR SHALL INSPECT THE SITE FOR THE FOLLOWING ITEMS:

-ENSURE DRAINS OPERATE EFFECTIVELY, AND INITIATE REPAIR OR MAINTENANCE AS REQUIRED

-REMOVE SPILLED SAND (OR OTHER MATERIALS) FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 2 METRES FROM AREAS OF CONCENTRATED OR HIGH-VELOCITY FLOWS SUCH AS WATERCOURSES, OVERLAND FLOW PATHS, GUTTERS, PAVED AREAS, DRIVEWAYS AND ROADS.
15.

CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT WORKS IS NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS, ie. MAKE ONGOING CHANGES TO THE PLAN.
16.

MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE REHABILITATED
17.

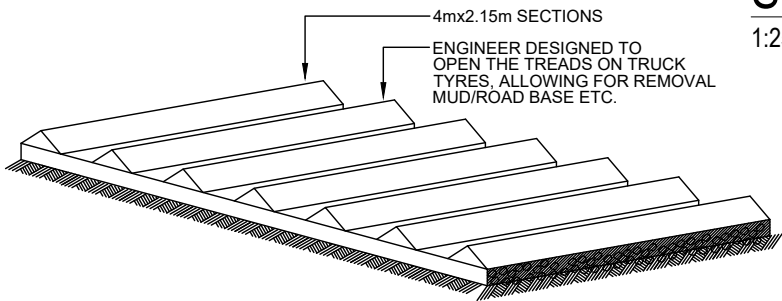
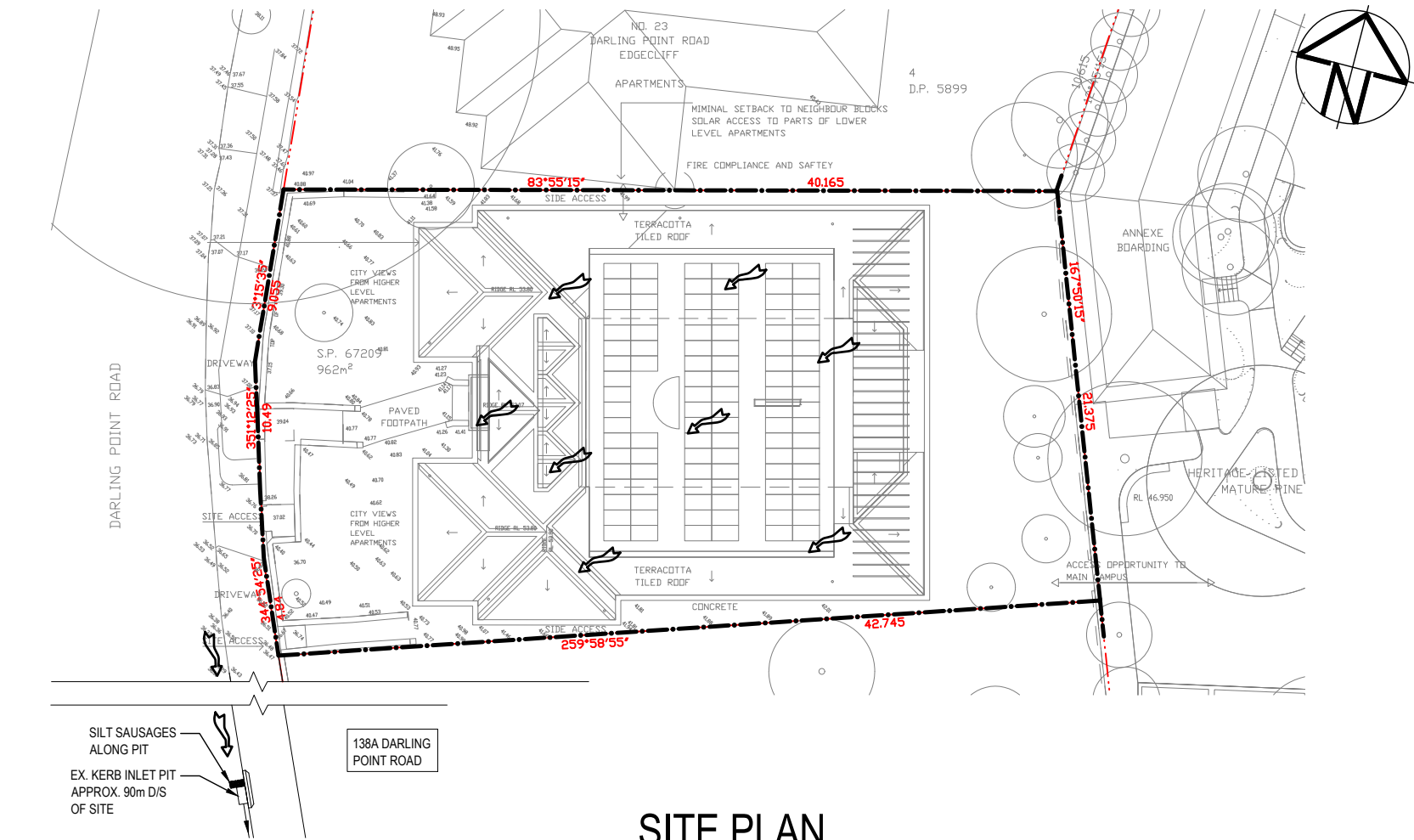
REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES ASA LAST ACTIVITY IN THE REHABILITATION PROGRAMME
18.

THE CONTRACTOR SHALL KEEP A LOG BOOK, MAKING ENTRIES ATLEAST WEEKLY, AND AFTER RAINFALL AND/OR SITE CLOSURE. RECORD:

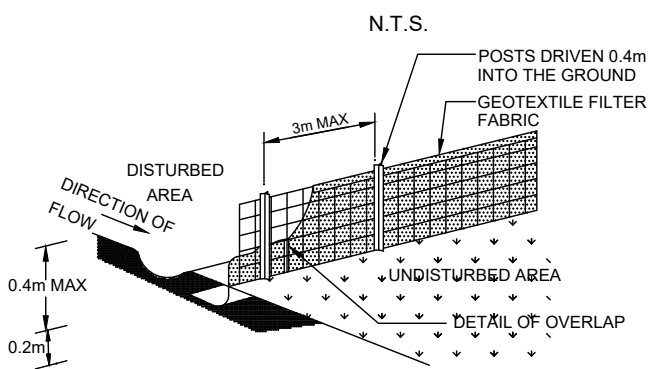
1) THE VOLUME OF ANY RAINFALL EVENTS (CHECK WEATHER BUREAU)

2) THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS

3) REMEDIAL WORKS

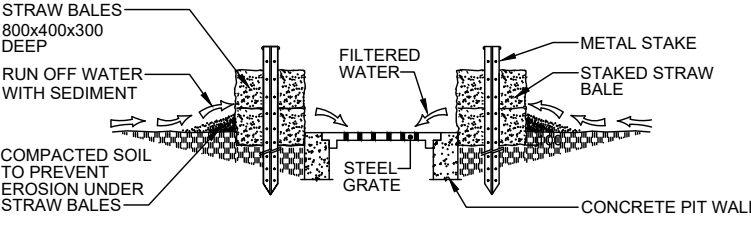
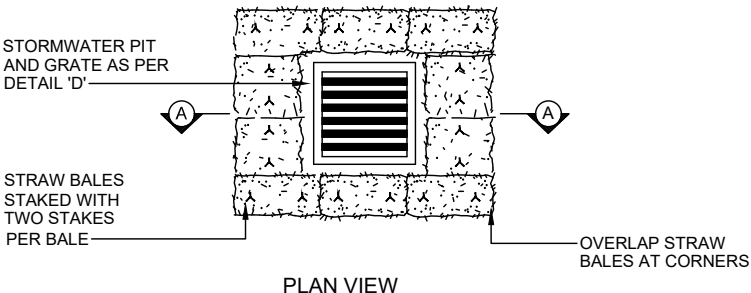


RUMBLE GRIDS TEMPORARY CONSTRUCTION VEHICLE EXIT



SEDIMENT CONTROL FENCE

N.T.S.



STORMWATER PIT WITH STRAW BALE SEDIMENT BARRIER

N.T.S.

A	DA SUBMISSION ISSUE	29.09.23
ISSUE	AMENDMENT	

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates

PTY LIMITED

HYDRAULIC & FIRE CONSULTANTS

Level 2, 32 Carrington Street, Sydney NSW Australia 2000

Telephone (02) 9262 1600 Fax (02) 9262 6385

Email: info@harrispage.com.au ABN 008 548 098

PROJECT

1007 Ascham Boarding House

19 Darling Point Road, Edgecliff, NSW 2027, Australia

ARCHITECT

247 Devonshire Street, Surry Hills

Tribe Studio Architects

NSW 2010

T + 61 2 9211 3211

DRAWING TITLE

HYDRAULIC SERVICES

SEDIMENT & EROSION

CONTROL PLAN

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2022	KP	KJ	5 OF 5	AS SHOWN @A3
PROJECT No.		DRAWING No.		REVISION
7224		SW-04		A