

HYDRAULIC DETAILS FOR NEW DWELLING AT 165 HEADLAND ROAD, NORTH CURLCURL NSW 2099

10.	17.7	240	52.2	810	154	2380
5.	12.5	190	36.9	570	109	1680
4.	11.2	175	33.0	510	97.2	1500
3.	9.7	150	28.6	440	84.2	1300
2.	7.9	120	23.3	360	68.7	1060
1.	5.6	85	16.5	260	48.6	750
FRICTION SLOPE (%)	Q (l/s)	EIA (m2)	Q (l/s)	EIA (m2)	Q (l/s)	EIA (m2)
	Ø100 mm uPVC		Ø150mm uPVC		Ø225 mm uPVC	

EIA = EQUIVALENT IMPERVIOUS AREA

DRAWING LIST - CIVIL / HYDRAULICS

S01	DRAWING TITLE, INDEX & NOTES	S06	DETAILS
S02	ROOF DRAINAGE DETAILS	S07	OSD TANK DETAILS
S03	FIRST FLOOR DRAINAGE PLAN	S08	SEDIMENT CONTROL PLAN
S04	GROUND FLOOR DRAINAGE PLAN		
S05	BASEMENT DRAINAGE PLAN		

BASIX REQUIREMENT
RAINWATER TANK TO BASIX
REQUIREMENT.



HYDRAULIC NOTES

- H.1. ALL SERVICES ARE TO BE LOCATED IN THE FIELD IN CONJUNCTION WITH A RESPONSIBLE OFFICER OF EACH RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- H.2. DRAINAGE PITS ARE TO BE 450 mm SQUARE OR LARGER AND FITTED WITH A GALVANISED GRATE.
- H.3. DRAINAGE PIPE SIZES ARE Ø100 mm UNLESS NOTED.
- H.4. DRAINAGE PIPES SHALL BE SEWER GRADE PVC UNLESS NOTED.
- H.5. ALL BARE SOIL AREAS ARE TO BE PROTECTED FROM EROSION BY TEMPORARY MEASURES RE-VEGETATED AT CESSATION OF CONSTRUCTION.
- H.6. A SEDIMENT CATCHMENT POND IS TO BE PROVIDED AT THE RATE OF 120 m3 CAPACITY PER HECTARE DRAINED. THE DETENTION TANKS MAY BE USED FOR THIS PURPOSE, PROVIDED SUFFICIENT WATER IS RETAINED AS A POOL DURING CONSTRUCTION & ADEQUATE SAFETY FENCING IS PROVIDED.
- H.7. THE DOWNHILL BOUNDARY OF THE SITE IS TO BE PROTECTED BY HAY BALE OR FILTER FABRIC FENCE DURING CONSTRUCTION AS SHOWN IN ATTACHED DETAIL.
- H.8. THE STREET DRAINAGE PIT LOCATED DOWNHILL OF THE SITE SHALL BE PROTECTED FROM SEDIMENT WITH HAY BALES.
- H.9. A SINGLE CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED IN THE MANNER SHOWN IN ATTACHED H.9 DETAIL.
- H.10. ALL EROSION PROTECTION MEASURES TO MEET THE REQUIREMENTS OF THE DEPT. OF CONSERVATION AND LAND MANAGEMENT AS OUTLINED IN 'URBAN EROSION & SEDIMENT CONTROL', SCS TECH. HANDBOOK No.2 1978 UNLESS SPECIFIED BY COUNCIL.

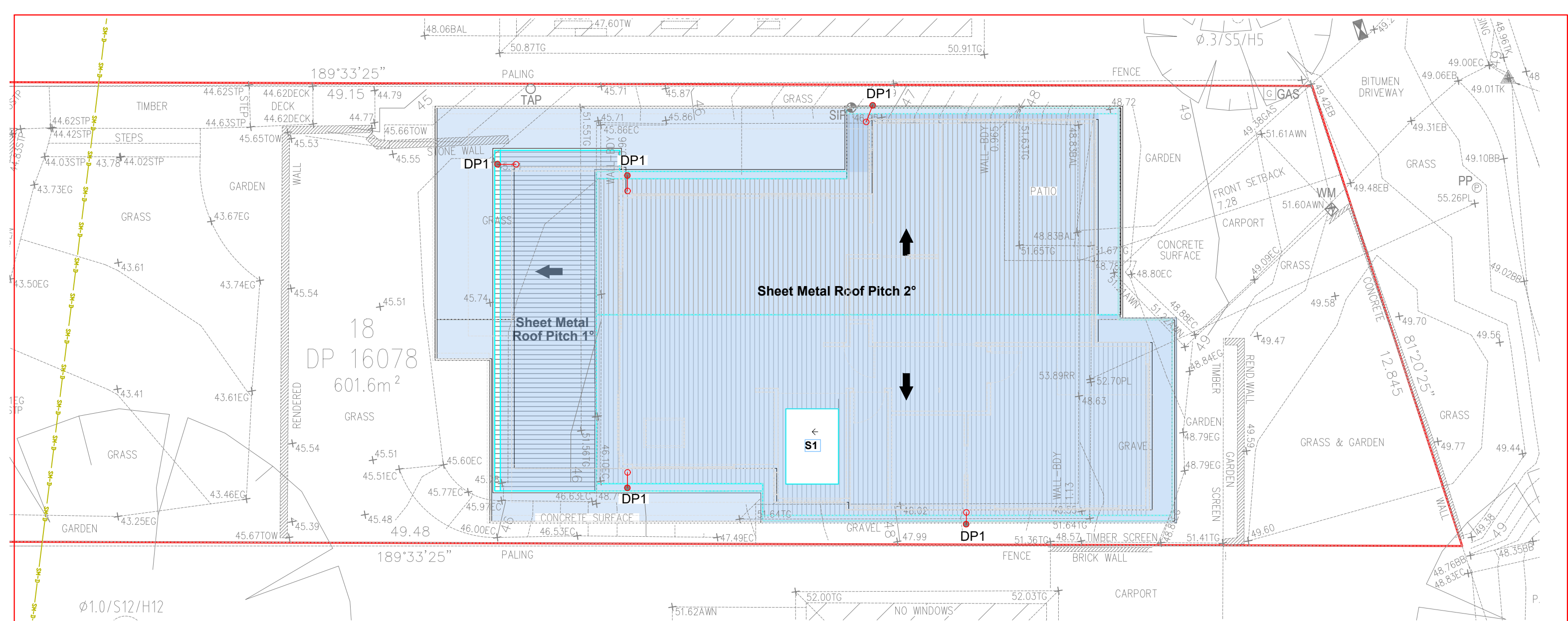
SPECIAL NOTES

- ALL PIPES TO BE LAID ON 75 mm SAND BED WITH THE BARRELS FULLY SUPPORTED ("B" CLASS BEDDING)
- PROVIDE "CLEANING EYES" TO ALL DOWN PIPES NOT DIRECTLY CONNECTED TO PITS.
- "HEAVY DUTY" GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS.
- THE SUMP IN THE DETENTION TANK SHALL BE DELETED.
- ORIFICE PLATES USED TO RESTRICT THE OUTFLOW MUST BE MACHINED TO THE EXACT DIMENSION AS CALCULATED, FROM MINIMUM 3 mm THICK STAINLESS STEEL OR 3 mm THICK GALVANISED STEEL AFTER MACHINING. THEY MUST BE CAST IN THE PIT WALLS OR PERMANENTLY FIXED IN THE PIT BY SOME APPROVED METHOD SO THEY CANNOT BE EASILY REMOVED.
- A PLAQUE MEASURING NO LESS THAN 400 mm X 200 mm SHALL BE IN SOME WAY PERMANENTLY ATTACHED AND PROMINENTLY DISPLAYED WITHIN THE IMMEDIATE VICINITY OF THE OSD DEVISE. THIS PLAQUE SHALL ADVISE OCCUPIERS OF THE PROPERTY OF THE EXISTENCE OF THE OSD DEVISE AND ALSO THAT THE DEVISE IS NOT IN ANY WAY TO BE TAMPERED WITH OR CHANGED WITHOUT PRIOR WTITTEN CONSENT OF COUNCIL.
- THE CONSTRUCTED OSD INSTALLATION MUST BE APPROPRIATELY CERTIFIED BY A SUITABLY QUALIFIED AND EXPERIENCED CONSULTING ENGINEER (GENERALLY CP ENG. QUALIFICATION) WHO MUST STATE THAT IT COMPLIES WITH COUNCIL'S OSD POLICY, ALL RELEVANT CODES AND STANDARDS AND ALSO THAT IT IS GENERALLY IN ACCORDANCE WITH APPROVED PLANS.
- UPON COMPLETION OF THE OSD WORKS, WORK-AS-EXECUTED (WAE) PLANS SHALL BE SUBMITTED TO THE COUNCIL BY THE CONSULTING ENGINEER/REGISTERED SURVEYOR TO VERIFY THAT THE VOLUME OF STORAGE HAS BEEN ATTAINED AND THAT CRITICAL WATER AND FLOOR LEVELS ARE IN ACCORDANCE WITH DESIGN REQUIREMENTS. ANY CHANGES OR VARIATIONS TO THE APPROVED PLANS SHALL BE HIGHLIGHTED IN RED.
- CERTIFICATION ON THE STANDARD FORM FOR ON-SITE DETENTION RECORD OF INSTALLATION ISSUED BY COUNCIL AND WAE PLANS SHALL BE SUBMITTED TOGETHER WITH THE COMPLIANCE CERTIFICATE.

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.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m 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.

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS		
0	For Review	01/09/2023	AK	BG	RAPID PLANS/ MR. MATTHEW PARRELLI & MRS. KATE KELSO	HYDRAULIC DETAILS FOR ALTERATIONS & ADDITIONS AT 145 HEADLAND ROAD NORTH CURL CURL NSW 2099	Size A3	Scale U.N.O 1:100	 KEVIN ZIA (MIEAust, CPEng, NER) Prime Consulting Engineers Pty Ltd THE COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME CONSULTING ENGINEERS PTY. LTD.
A	For Submission	13/09/2023	AK	SD					
B	For Submission	16/02/2024	AK	SD					
						TITLE: DRAWING TITLE, INDEX & NOTES	DWG no. H-23-591	Sheet no. 01	
									 Prime Consulting Engineers CIVIL - STRUCTURAL - HYDRAULICS A.B.N. 34 641 874 795 U 21 / 1 JORDAN STREET GLADESVILLE NSW 2111 e: info@primeengineers.com.au w: www.primeengineers.com.au p: 02 8964 1818 m: 0466 053 516



ROOF DRAINAGE PLAN

SCALE 1:100

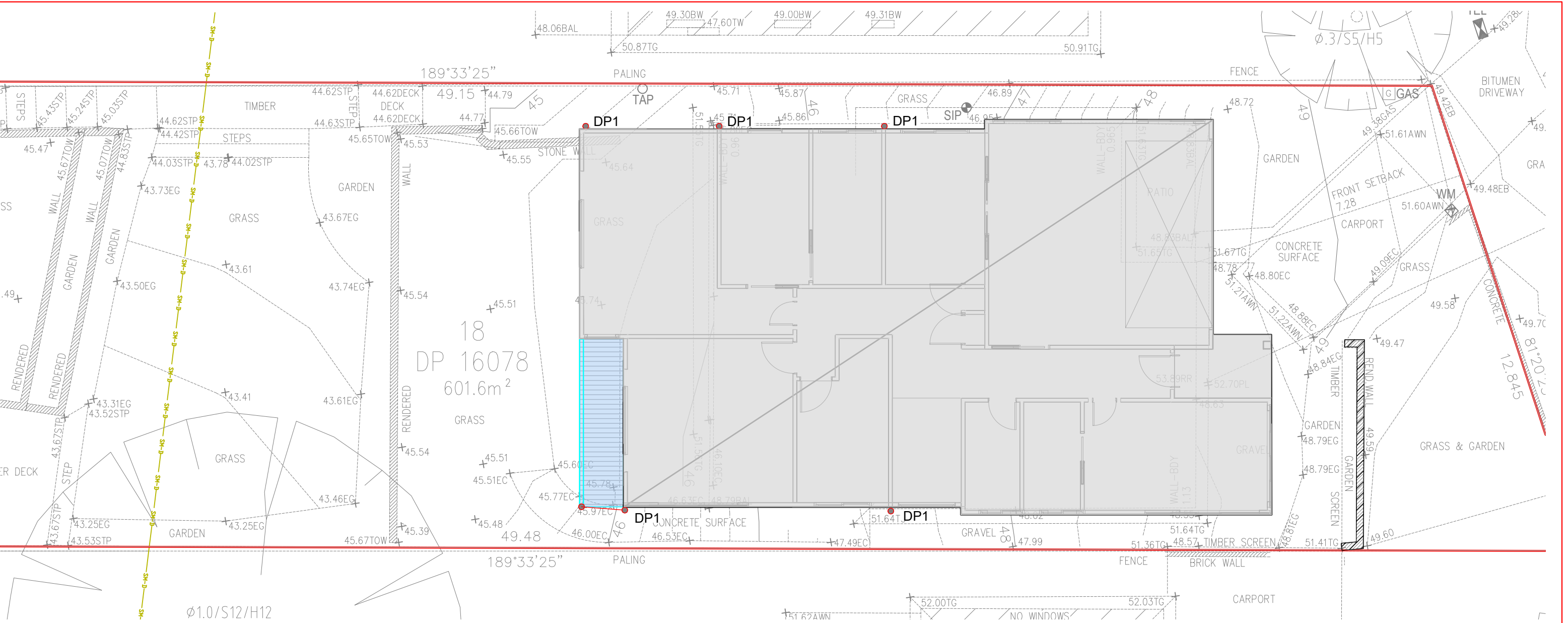
LEGEND:

- DPS DOWNPIPE SPREADER (Ø100 mm uPVC)
- DP1 NEW DOWNPIPE (Ø100 mm uPVC)
- 450x450 GRATED PIT
- SW1 NEW Ø150 uPVC STORMWATER PIPE MIN. 1% FALL (U.N.O)
- SW2 200x100 GALV. RHS
- SW2 Ø100 CHARGED LINE
- SEDIMENT CONTROL FENCE
- RAINWATER TANK TO BASIX REQ.

SITE PARAMETERS & TANK DETAILS	
SITE AREA	601.6 m ²
EXISTING IMPERVIOUS AREA	240.64 m ²
PROPOSED IMPERVIOUS AREA	360.96 m ²
PROPOSED LANDSCAPED AREA	240.60 m ² (40%)

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS	REGISTERED NER Engineers Australia KEVIN ZIA (MIEAust, CPEng, NER) Prime Consulting Engineers Pty Ltd	PCE Prime Consulting Engineers CIVIL - STRUCTURAL - HYDRAULICS A.B.N. 34 641 874 795 U 21 / 1 JORDAN STREET GLADESVILLE NSW 2111 e: info@primeengineers.com.au w: www.primeengineers.com.au p: 02 8964 1818 m: 0466 053 516
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A	For Submission	13/09/2023	AK	SD					
B	For Submission	16/02/2024	AK	SD					
						TITLE: ROOF DRAINAGE PLAN	DWG no. H-23-591	Sheet no. 02	

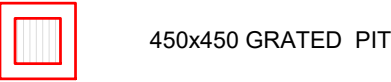
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A	For Submission	13/09/2023	AK	SD		TITLE: FIRST FLOOR PLAN	DWG no. H-23-591				Sheet no. 03
B	For Submission	16/02/2024	AK	SD							



GROUND FLOOR DRAINAGE PLAN
SCALE 1:100

LEGEND:

- DPS ● DOWNPIPE SPREADER (Ø100 mm uPVC)
● DP1 NEW DOWNPIPE (Ø100 mm uPVC)



- SW1 NEW Ø150 uPVC STORMWATER PIPE MIN. 1% FALL (U.N.O)

- SW2 200x100 GALV. RHS

- SW2 Ø100 CHARGED LINE

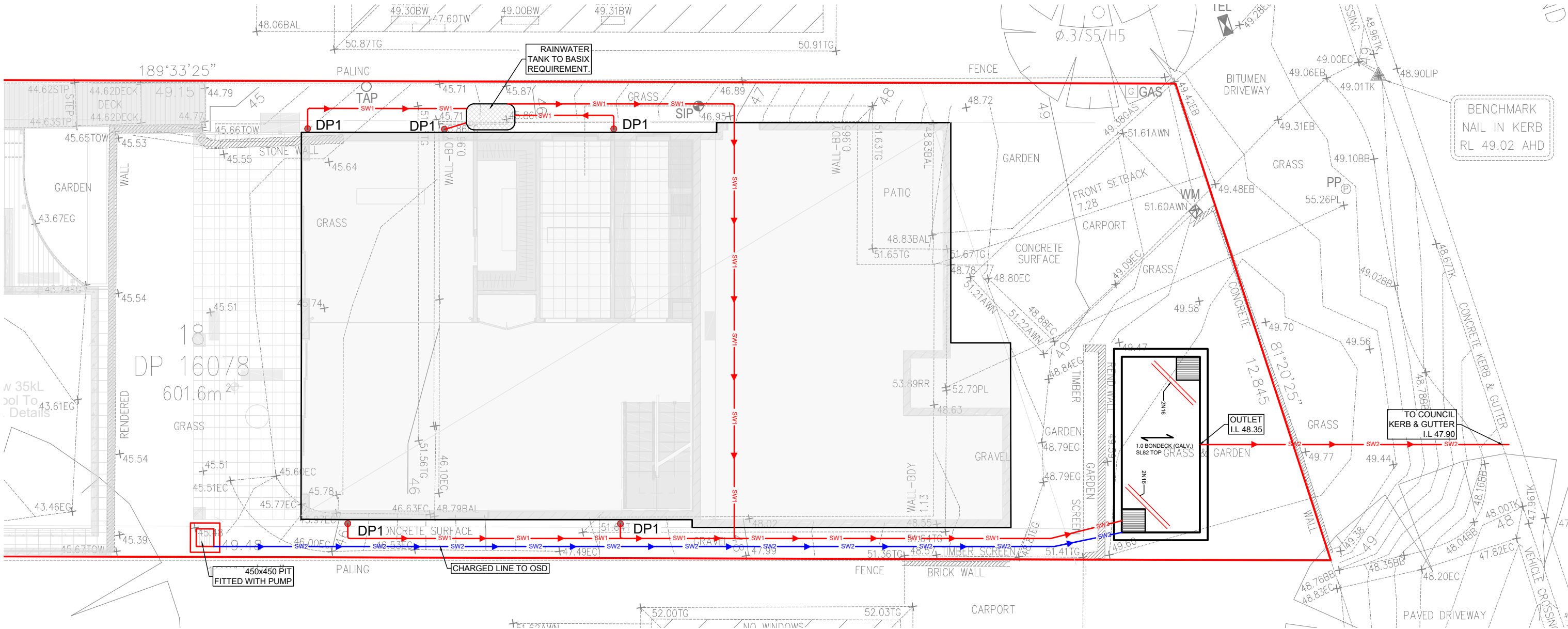
- SEDIMENT CONTROL FENCE



- RAINWATER TANK TO BASIX REQ.

SITE PARAMETERS & TANK DETAILS	
SITE AREA	601.6 m ²
EXISTING IMPERVIOUS AREA	240.64 m ²
PROPOSED IMPERVIOUS AREA	360.96 m ²
PROPOSED LANDSCAPED AREA	240.60 m ² (40%)

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT RAPID PLANS/ MR. MATTHEW PARRELLI & MRS. KATE KELSO	PROJECT: HYDRAULIC DETAILS FOR ALTERATIONS & ADDITIONS AT 145 HEADLAND ROAD NORTH CURL CURL NSW 2099 TITLE: GROUND FLOOR PLAN	CIVIL - HYDRAULICS		REGISTERED NER Engineers Australia KEVIN ZIA (MIEAust, CPEng, NER) Prime Consulting Engineers Pty Ltd THE COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME CONSULTING ENGINEERS PTY. LTD.	PCE Prime Consulting Engineers CIVIL - STRUCTURAL - HYDRAULICS A.B.N. 34 641 874 795 U 21 / 1 JORDAN STREET GLADESVILLE NSW 2111 e: info@primeengineers.com.au w: www.primeengineers.com.au p: 02 8964 1818 m: 0466 053 516
0	For Review	01/09/2023	AK	BG <th>Size</th> <th>Scale</th>			Size	Scale		
A	For Submission	13/09/2023	AK	SD <td>A3</td> <td>U.N.O 1:100</td>			A3	U.N.O 1:100		
B	For Submission	16/02/2024	AK	SD <th>DWG no.</th> <th>Sheet no.</th>			DWG no.	Sheet no.		
				<td>H-23-591</td> <td>04</td>			H-23-591	04		



LOWER GROUND FLOOR DRAINAGE PLAN
SCALE 1:100

LEGEND:

- DPS DOWNPIPE SPREADER (Ø100 mm uPVC)
- DP1 NEW DOWNPIPE (Ø100 mm uPVC)
- 450x450 GRATED PIT
- SW1 NEW Ø150 uPVC STORMWATER PIPE MIN. 1% FALL (U.N.O)
- SW2 200x100 GALV. RHS
- SW2 Ø100 CHARGED LINE
- SEDIMENT CONTROL FENCE
- RAINWATER TANK TO BASIX REQ.

PRE DEVELOPMENT AND POST DEVELOPMENT DISCHARGE (M ³ /S)	
PREDEV MAJOR(1% AEP)	0.032
PREDEV MINOR(20% AEP)	0.014
POSTDEV MAJOR(1% AEP)	0.027
POSTDEV MINOR(20% AEP)	0.013
POSTDEV DISCHARGE FROM OSD SYSTEM	0.014

NOTE: 20% OF THE TOTAL SITE AREA IS ALLOWED TO BYPASS THE OSD SYSTEM.

SITE PARAMETERS & TANK DETAILS	
SITE AREA	601.6 m ²
EXISTING IMPERVIOUS AREA	240.64 m ²
PROPOSED IMPERVIOUS AREA	360.96 m ²
PROPOSED LANDSCAPED AREA	240.60 m ² (40%)

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A	For Submission	13/09/2023	AK	SD		DWG no. H-23-591	Sheet no. 05			
B	For Submission	16/02/2024	AK	SD		TITLE: LOWER G.F. DRAIANGE PLAN				

NOTE:

FOR RETENTION WATER TO BE USED IN THE GREY WATER SYSTEM, GUTTERS MUST BE FITTED WITH GUTTER GUARDS AND DOWNPIPES FITTED WITH FIRST FLUSH DIVERTER SYSTEMS.

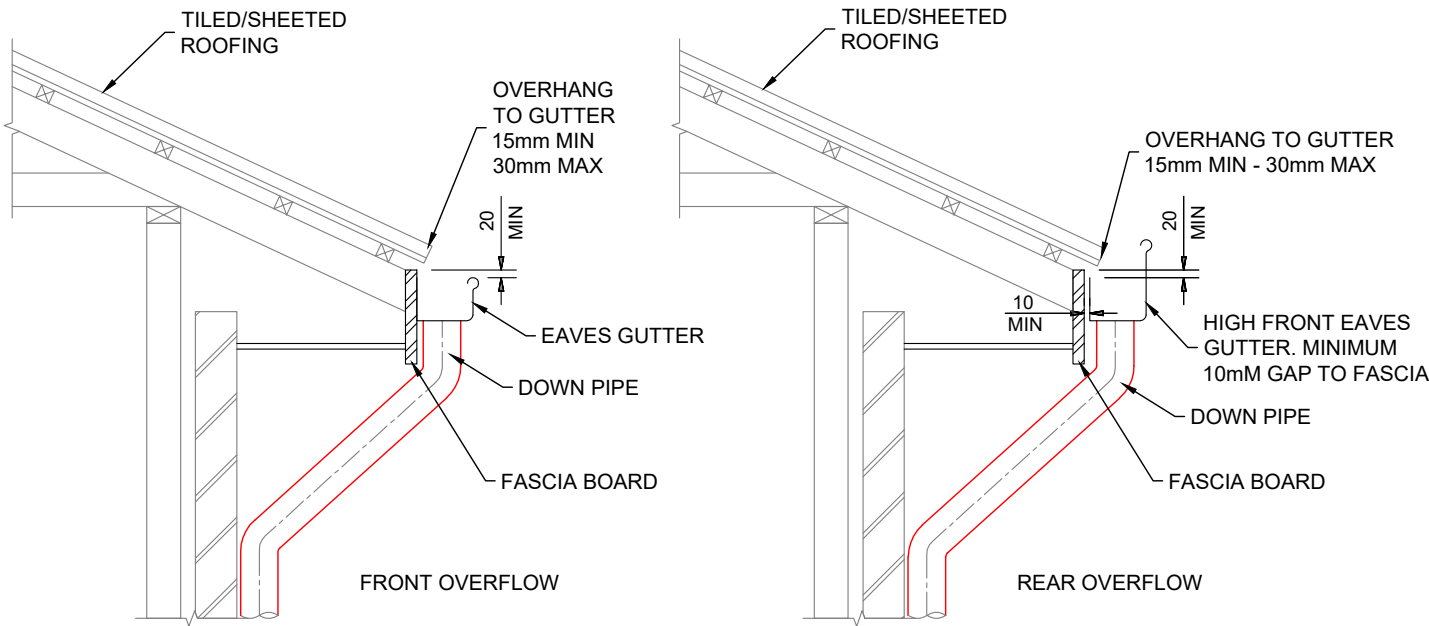
ALL PIPELINES MUST BE ACCESSIBLE FOR CLEANING THROUGH CLEANING EYES.

CONNECTION INTO THE GREY WATER SYSTEM MUST COMPLY WITH SYDNEY WATER GUIDELINES.

NOTE:

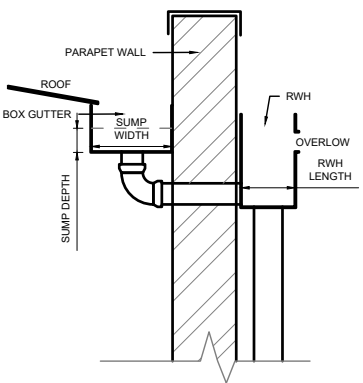
ALL GUTTERS MUST BE FITTED WITH GUTTER GUARDS AND DOWN PIPES FITTED WITH FIRST FLUSH DIVERTER SYSTEMS.

ALL PIPELINES MUST BE ACCESSIBLE FOR CLEANING THROUGH CLEANING EYES.

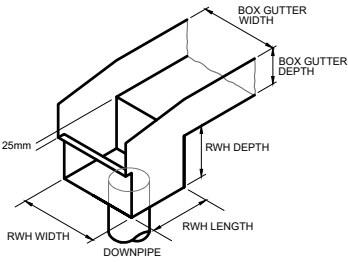


TYPICAL EAVES GUTTER DETAIL

SCALE 1:20

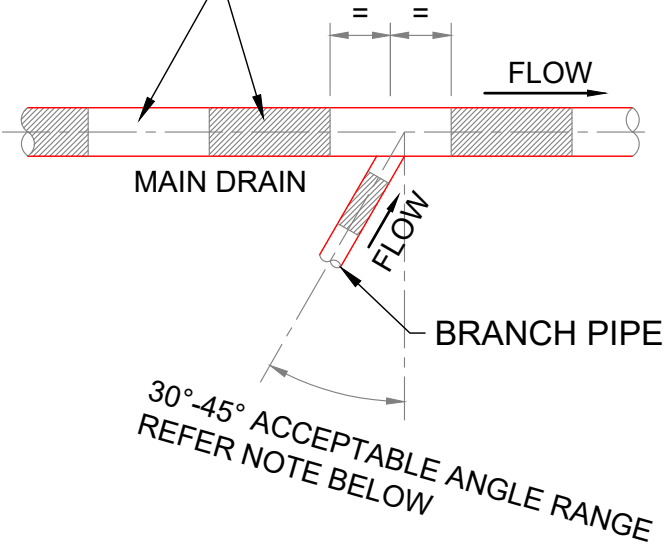


RAINWATER HEAD & BOX GUTTER DETAIL (TYP.)
N.T.S

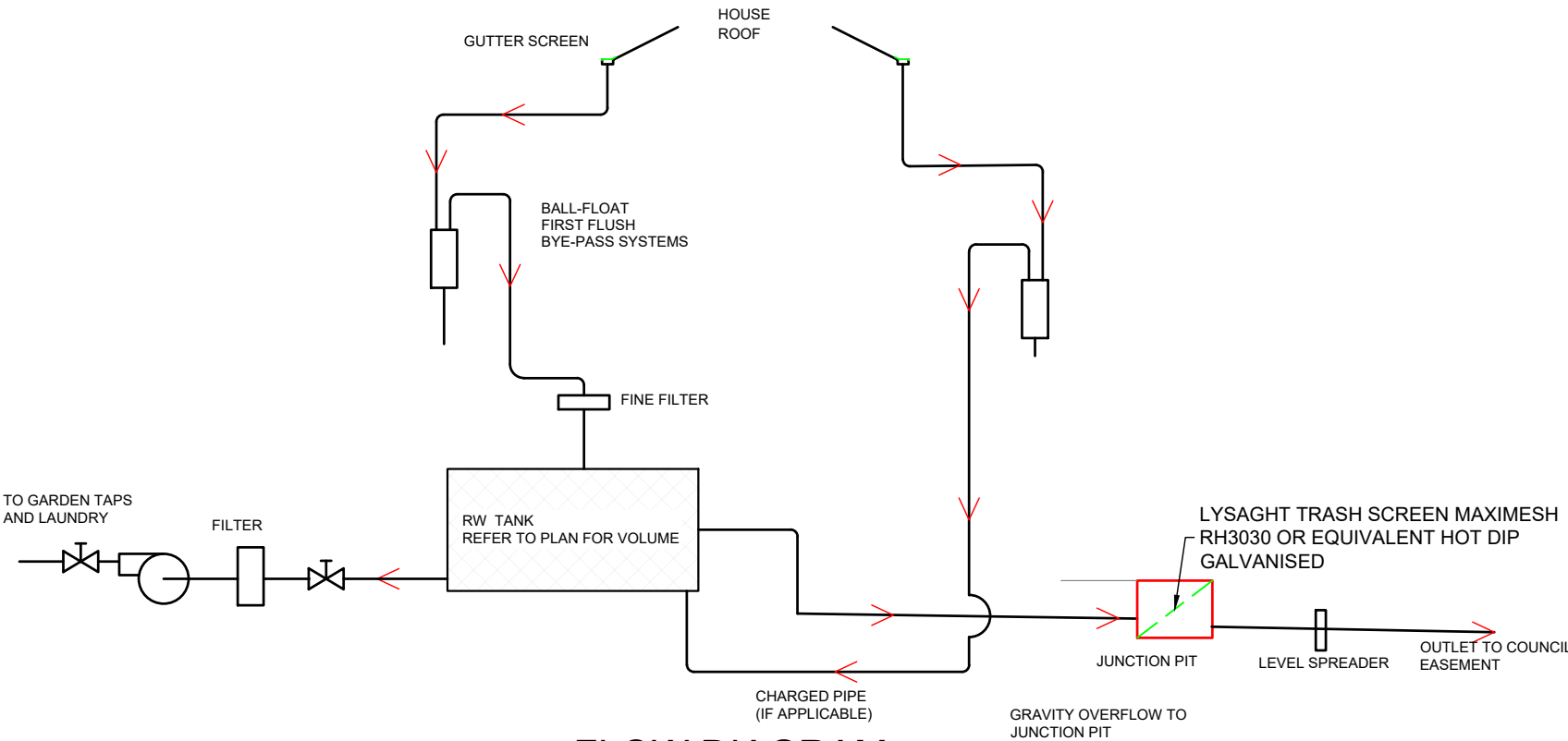


RAINWATER HEAD & OVERFLOW DETAIL (TYP.)
N.T.S

PIPE SEGMENT (TYP)



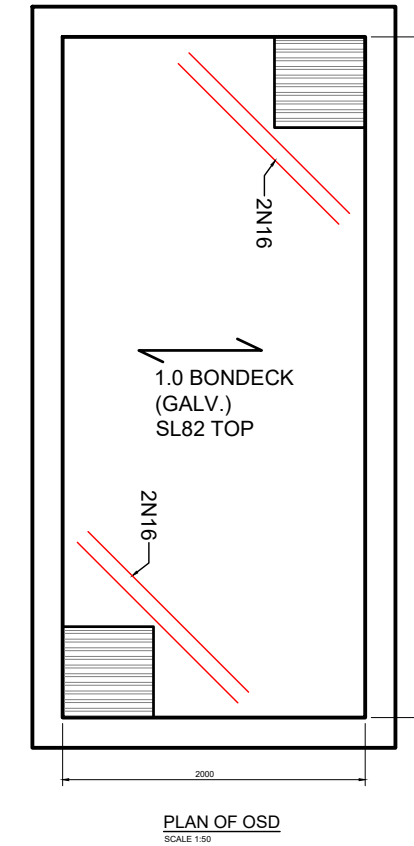
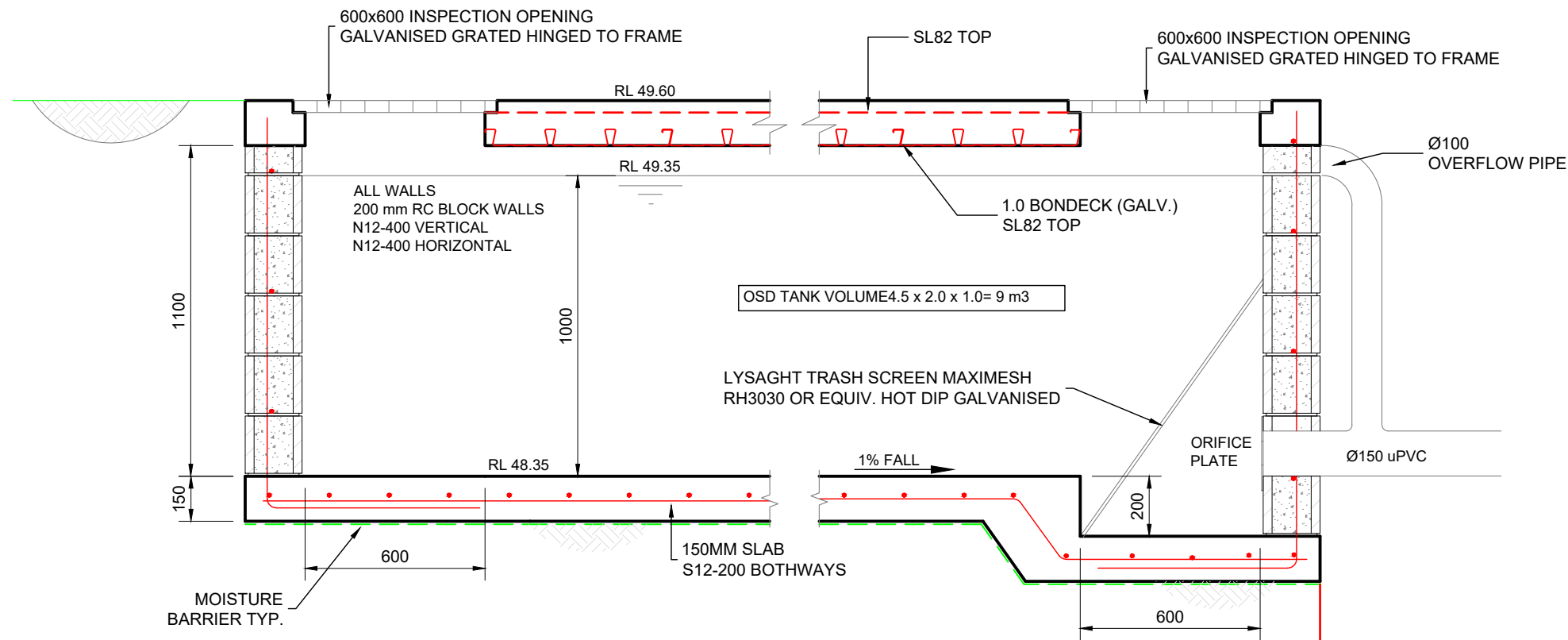
PREFERRED BRANCH LOCATION
ALONG MAIN DRAIN PLAN



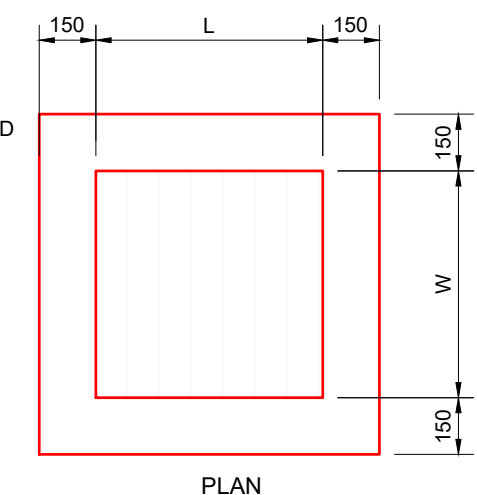
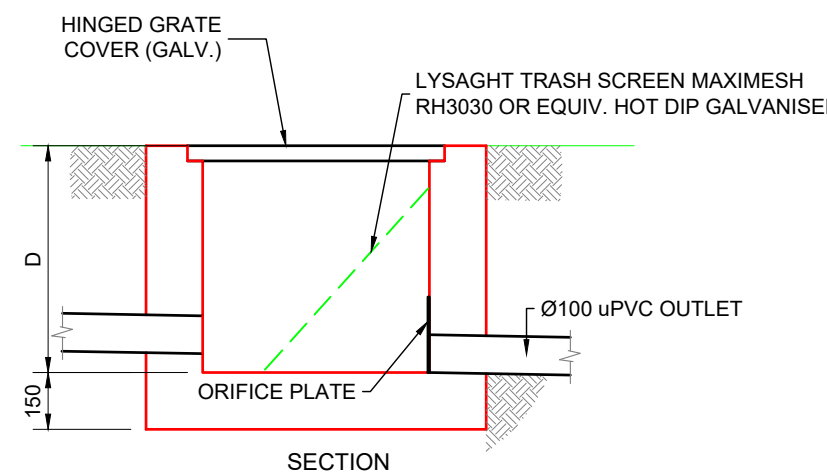
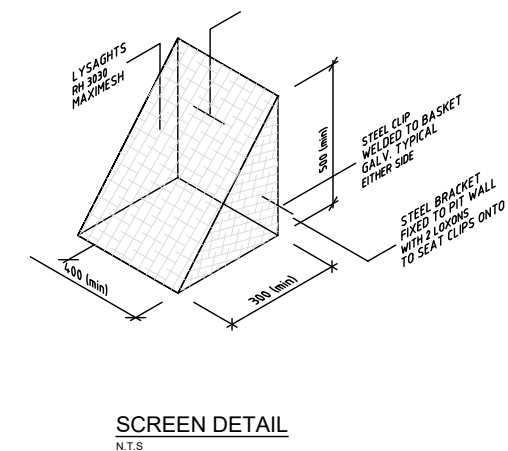
FLOW DIAGRAM

N.T.S

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS	 KEVIN ZIA (MIEAust, CPEng, NER) Prime Consulting Engineers Pty Ltd	 Prime Consulting Engineers		
0	For Review	01/09/2023	AK	BG	RAPID PLANS/ MR. MATTHEW PARRELLI & MRS. KATE KELSO	HYDRAULIC DETAILS FOR ALTERATIONS & ADDITIONS AT 145 HEADLAND ROAD NORTH CURL CURL NSW 2099	Size A3	Scale U.N.O 1:100	THE COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME CONSULTING ENGINEERS PTY. LTD.		CIVIL - STRUCTURAL - HYDRAULICS A.B.N. 34 641 874 795 U 21 / 1 JORDAN STREET GLADESVILLE NSW 2111 e: info@primeengineers.com.au w: www.primeengineers.com.au p: 02 8964 1818 m: 0466 053 516
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						TITLE: DETAILS	DWG no. H-23-591	Sheet no. 06			



LONGITUDINAL SECTION OSD
SCALE 1:20

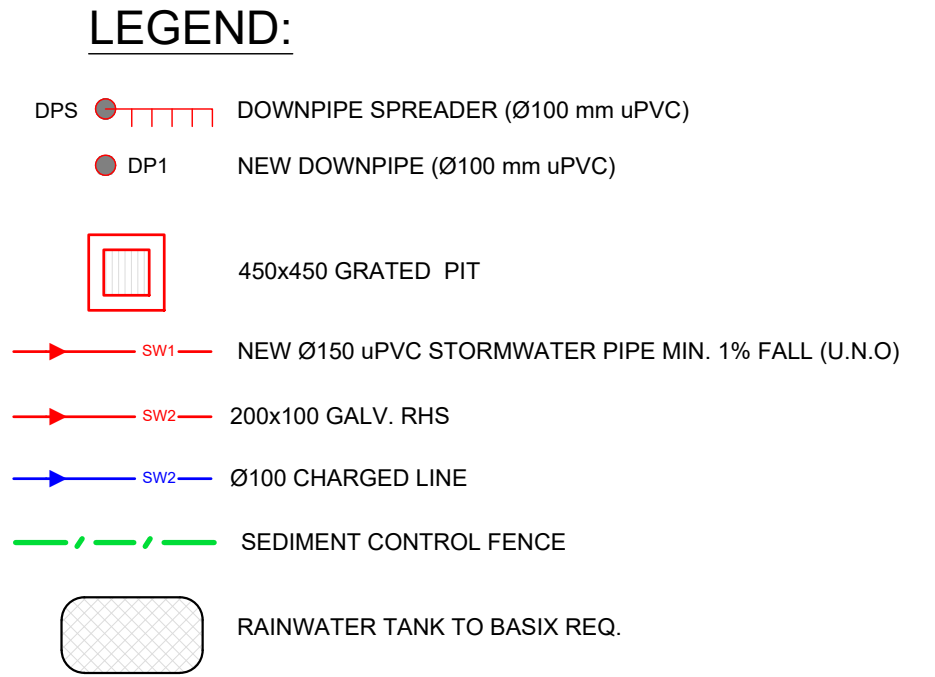
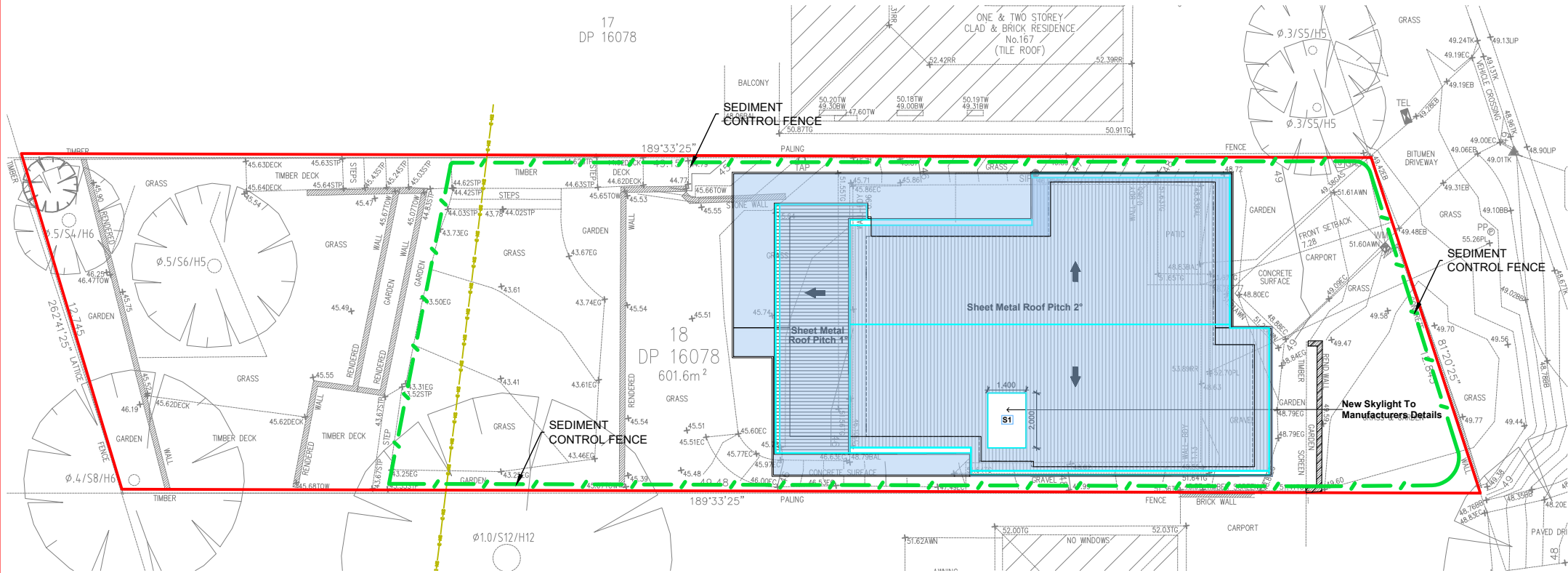


TYPICAL GRATED PIT DETAIL
SCALE 1:20

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS	KEVIN ZIA (MIEAust, CPEng, NER)	Prime Consulting Engineers
0	For Review	01/09/2023	AK	BG	RAPID PLANS/ MR. MATTHEW PARRELLI & MRS. KATE KELSO	HYDRAULIC DETAILS FOR ALTERATIONS & ADDITIONS AT 145 HEADLAND ROAD NORTH CURL CURL NSW 2099	Size A3	Scale U.N.O 1:100	THE COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME CONSULTING ENGINEERS PTY. LTD.
A	For Submission	13/09/2023	AK	SD					
B	For Submission	16/02/2024	AK	SD					
						TITLE: DETAILS	DWG no. H-23-591	Sheet no. 07	

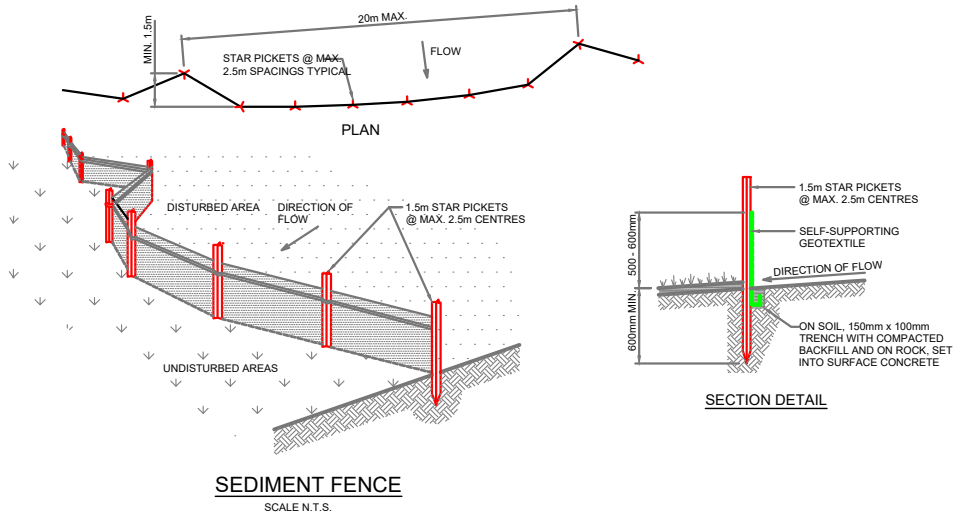


Prime Consulting Engineers
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SEDIMENT CONTROL PLAN

SCALE 1:200



TYP. SEDIMENTATION & EROSION CONTROL DETAILS

N.T.S

CONSTRUCTION NOTES:

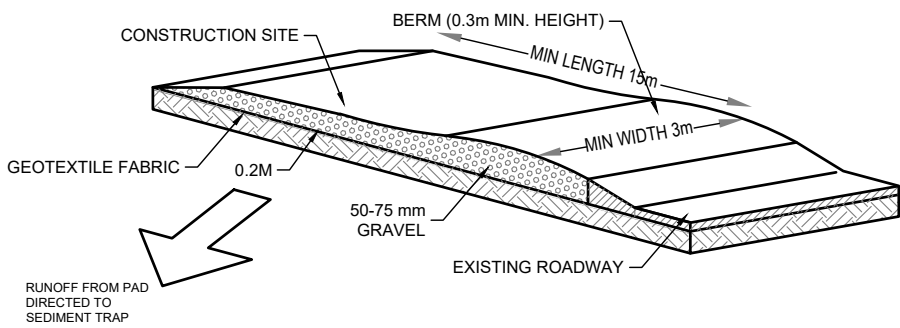
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASED OR 30mm AGGREGATE
4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILD ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE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

NOTES

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. CONSTRUCT EARTH BANKS ON THE UP-SLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.
5. STOCKPILE TO BE COVERED DURING WIND AND RAIN WEATHER CONDITIONS. PROTECTIVE GROUND COVER TO BE PLACED AS FAR AS PRACTICABLE AND MAINTAINED.

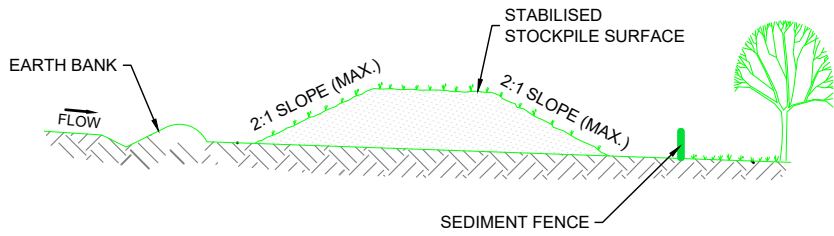
SEDIMENT FENCE CONSTRUCTION NOTES:

1. 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
2. TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m 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
4. 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.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. BACKFILL THE TRENCH
6. OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



STABILIZED SITE ACCESS

N.T.S



STOCKPILE

N.T.S

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS	 KEVIN ZIA (MIEAust, CPEng, NER) Prime Consulting Engineers Pty Ltd	 Prime Consulting Engineers
0	For Review	01/09/2023	AK	BG	RAPID PLANS/ MR. MATTHEW PARRELLI & MRS. KATE KELSO	HYDRAULIC DETAILS FOR ALTERATIONS & ADDITIONS AT 145 HEADLAND ROAD NORTH CURL CURL NSW 2099	Size A3	Scale U.N.O 1:100	THE COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME CONSULTING ENGINEERS PTY. LTD.
A	For Submission	13/09/2023	AK	SD					
B	For Submission	16/02/2024	AK	SD					
						TITLE: SEDIMENT CONTROL PLAN	DWG no. H-23-591	Sheet no. 08	