HYDRAULIC DETAILS FOR **ALTERATION AND ADDITIONS AT 1 PHYLLIS STREET, NORTH CURL CURL NSW**

DRAWING LIST - CIVIL / HYDRAULICS

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S05	DETAILS
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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.
- DRAINAGE PITS ARE TO BE 450 mm SQUARE OR LARGER AND FITTED H.2. WITH A GALVANISED GRATE.
- H.3. DRAINAGE PIPE SIZES ARE Ø100 mm UNLESS NOTED.
- DRAINAGE PIPES SHALL BE SEWER GRADE PVC UNLESS NOTED H.4
- ALL BARE SOIL AREAS ARE TO BE PROTECTED FROM EROSION BY H.5 TEMPORARY MEASURES RE-VEGETATED AT CESSATION OF CONSTRUCTION
- A SEDIMENT CATCHMENT POND IS TO BE PROVIDED AT THE RATE OF H.6. 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.
- Η7 THE DOWNHILL BOUNDARY OF THE SITE IS TO BE PROTECTED BY HAY BALE OR FILTER FABRIC FENCE DURING CONSTRUCTION AS SHOWN IN ATTACHED DETAIL.
- THE STREET DRAINAGE PIT LOCATED DOWNHILL OF THE SITE SHALL H.8. BE PROTECTED FROM SEDIMENT WITH HAY BALES.
- Н.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

BASIX REQUIREMENT					
NO ADDITIONAL RAINWATER TANK IS					
REQUIRED.					



				FOR	CONS	TRUCT	10
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	Q (l/s)	EIA (m2)	Q (l/s)	EIA (m2)	Q (l/s)	EIA (m2)	
SLOPE (%)	Ø100 mm uPVC		Ø150mm uPVC		Ø225 mm uPVC		

EIA = EQUIVALENT IMPERVIOUS AREA

SPECIAL NOTES

- ALL PIPES TO BE LAID ON 75 mm SAND BED WITH THE BARRELS FULLY SUPPORTED ("B" CLASS 1. 1. **BEDDING**) 2 PROVIDE "CLEANING EYES" TO ALL DOWN PIPES NOT DIRECTLY CONNECTED TO PITS
- 3 "HEAVY DUTY" GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS
- THE SUMP IN THE DETENTION TANK SHALL BE DELETED. 4
- 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 2. REMOVED.
- 6. 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 3. 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 7 4 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.
- 8. 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 5. VARIATIONS TO THE APPROVED PLANS SHALL BE HIGHLIGHTED IN RED.
- CERTIFICATION ON THE STANDARD FORM FOR ON-SITE DETENTION RECORD OF 6. 9 INSTALLATION ISSUED BY COUNCIL AND WAE PLANS SHALL BE SUBMITTED TOGETHER WITH THE COMPLIANCE CERTIFICATE.

Issue	Description	Date	Design	Check	ARCHITECT/CLIENT	PROJECT:	CIVIL - HYDRAULICS			
0	For Review	08/03/2023	AK	BG	MR. JOE HAMLIN	ALTERATIONS & ADDITIONS AT 1 PHYLLIS STREET, NORTH CURL CURL NSW	GIVIL - HTDR	AULIU3	KEVIN ZIA (MIEAust, CPEng, NER)	
1	For Construction	06/04/2023	AK	BG			Size A3	Scale _{U.N.0} 1:100	The COPY RIGHT OF THIS DRAWING REMAINS WITH PRIME	
						TITLE: DRAWING TITLE, INDEX & NOTES	DWG no.	Sheet no.	CONSULTING ENGINEERS PTY. LTD.	
						···· · -······· _ ···· _ , ···· _ ········	H-23-436	S1		

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.

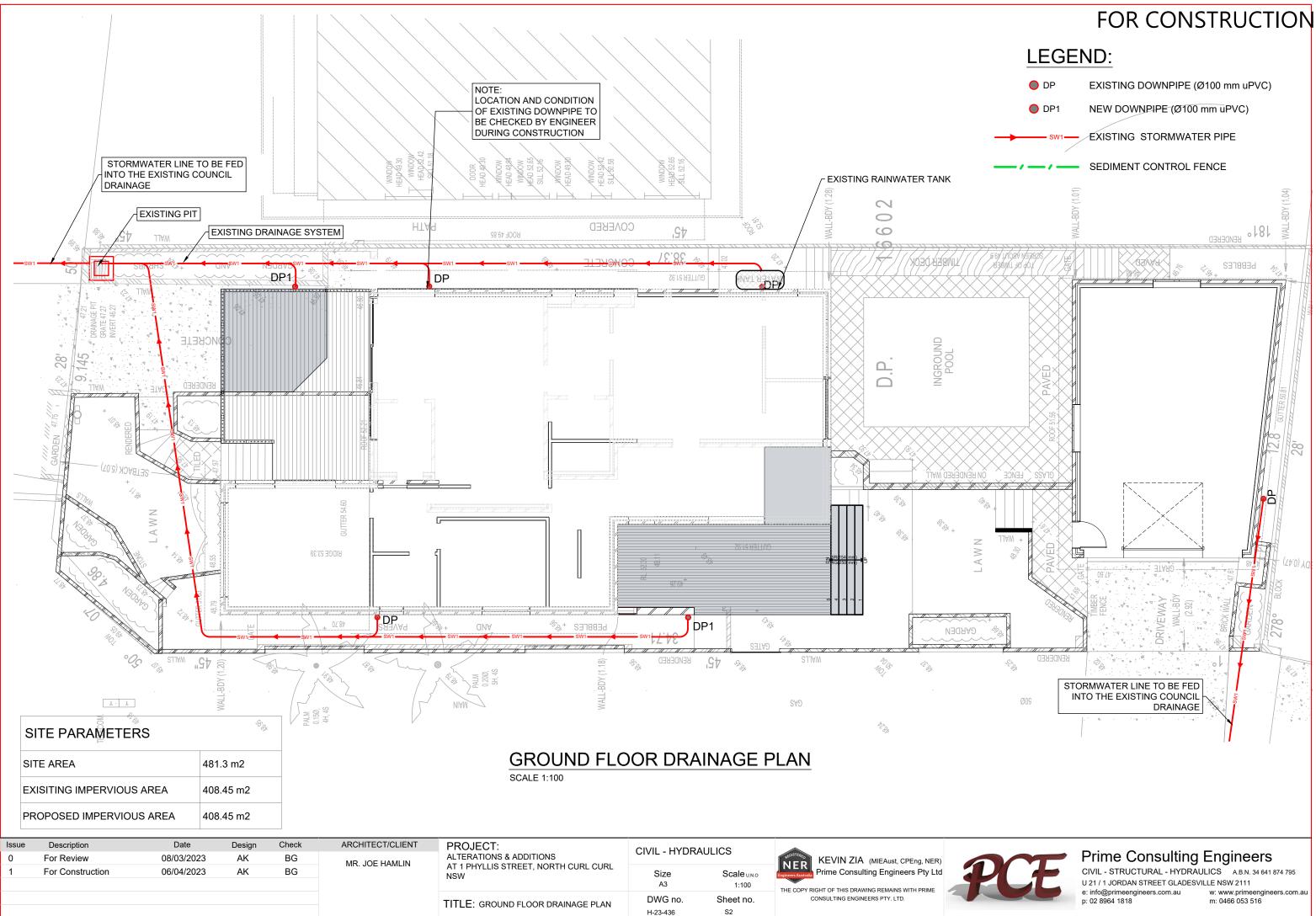
DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.

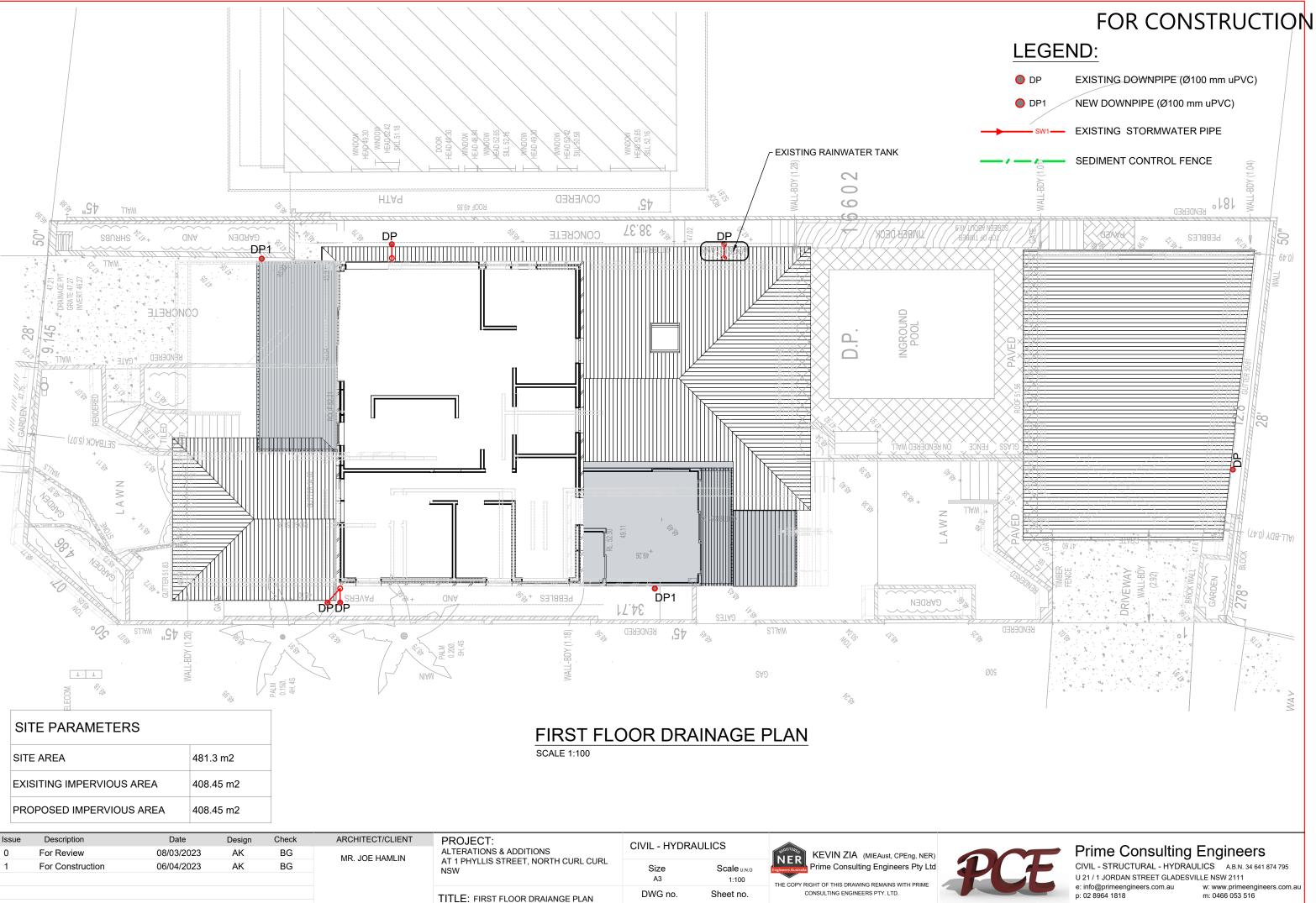
FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.

JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVFRI AP

BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



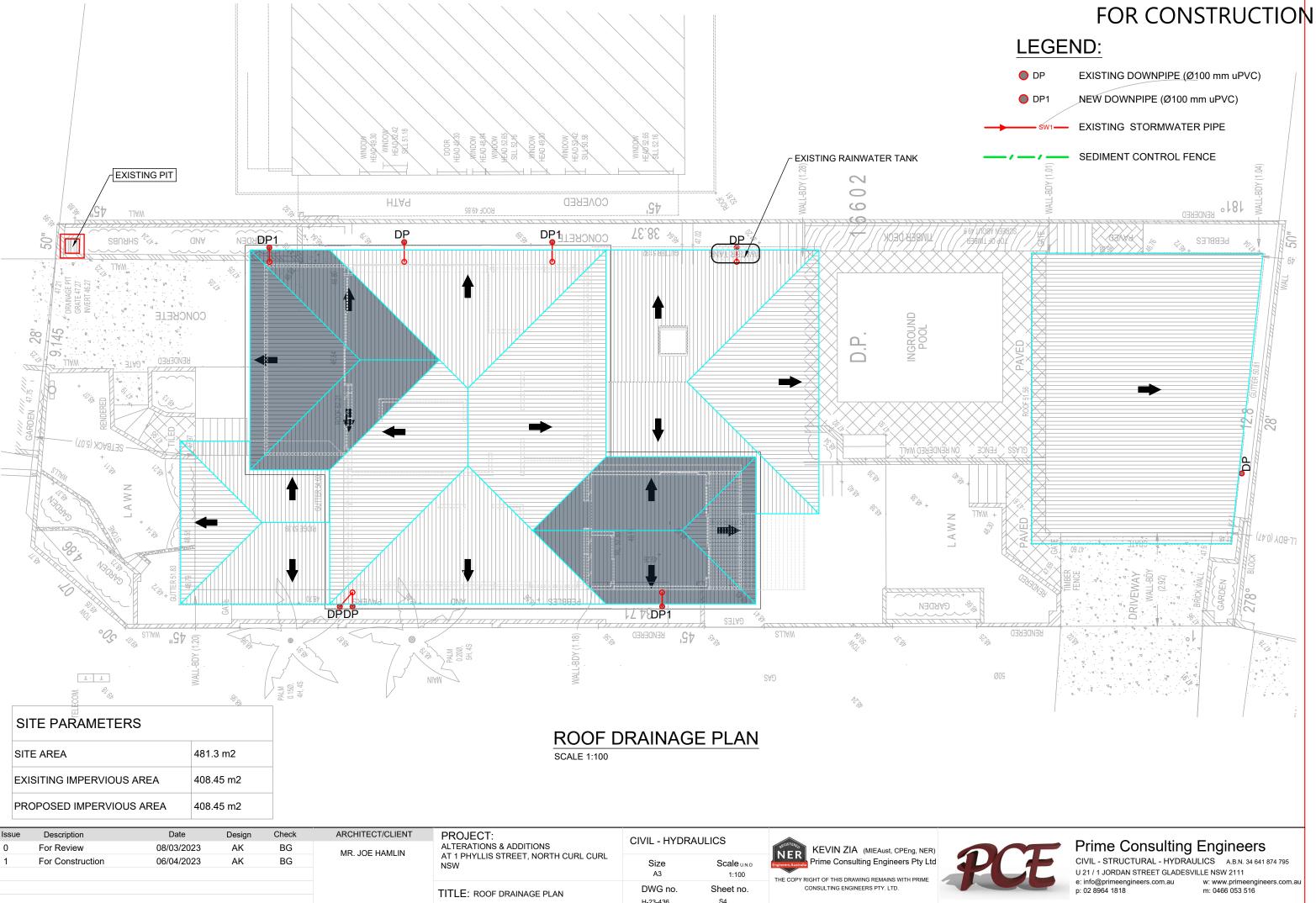




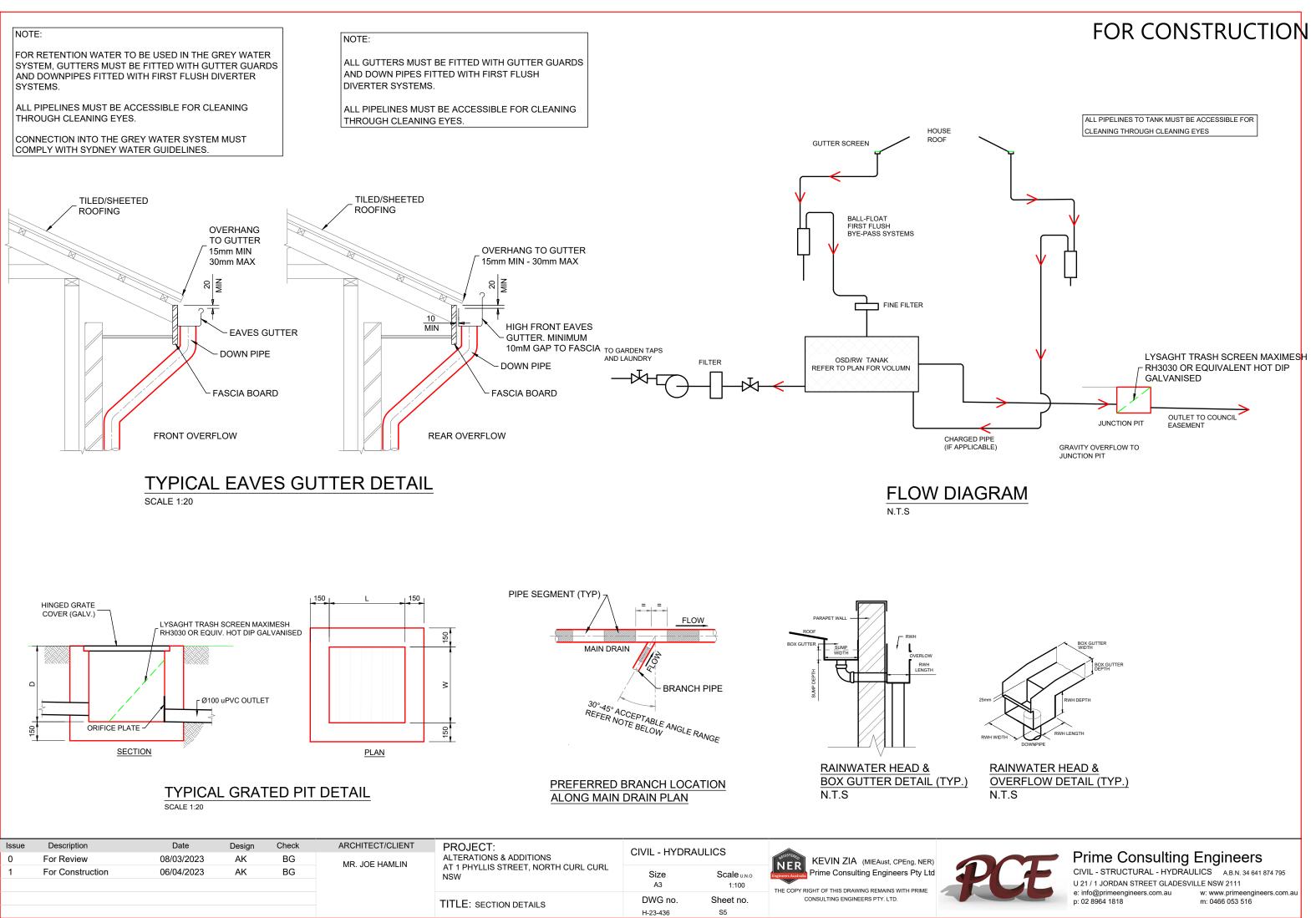
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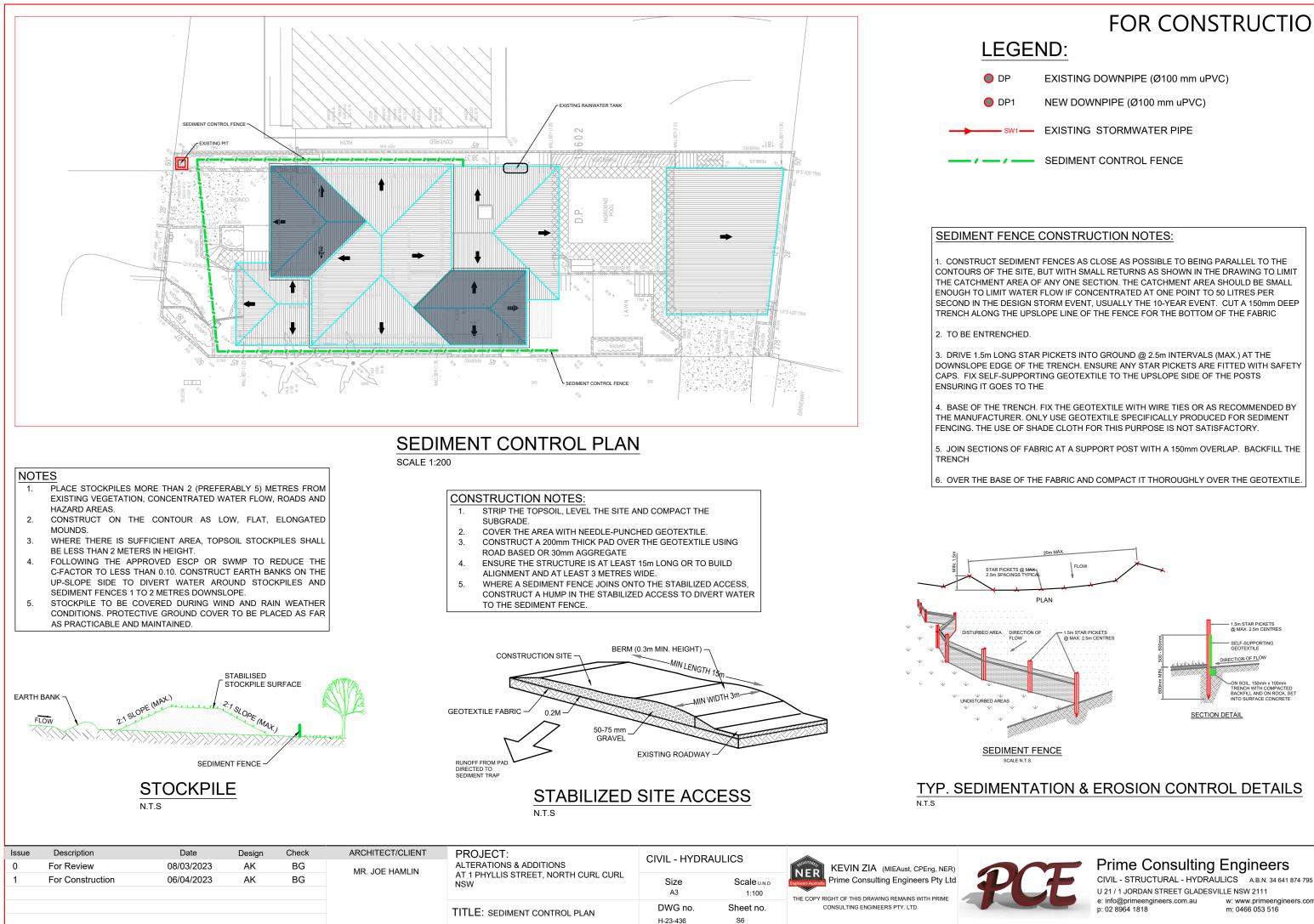
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FOR CONSTRUCTION

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