



PRIME ENGINEERING CONSULTANTS

PROPOSED SECONDARY DWELLING AT 3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS



**PRIME
ENGINEERING
CONSULTANTS**

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| DRAWN | DATE | DESCRIPTION | ISSUE | CLIENT | DESIGNED BY: | D.S. | ISSUE: | COVER PAGE |
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| D.S. | 20.10.2021 | ISSUED FOR DA | A | | CHECKED BY: | D.S. | A | |
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| | | | | 3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS | CLIENT REF: | ARCH DRAWING NO: | SHEET NO: | |
| | | | | | PSW21283 | TD3V14821 | SW01 | |
| | | | | | | | | |

| LEGEND | |
|----------|--|
| DP ● | DOWNPIPE |
| | STORMWATER LINE |
| SSD | SUBSOIL DRAINAGE LINE |
| OF | OVERFLOW LINE |
| SWRM | STORMWATER RISING MAIN |
| | EXISTING STORMWATER LINE |
| SW SW | AUTHORITY STORMWATER LINE |
| HL HL | HIGH LEVEL STORMWATER LINE |
| S | AUTHORITY SEWER LINE |
| W | AUTHORITY WATER LINE |
| G G | AUTHORITY GAS LINE |
| | AUTHORITY ELECTRICITY LINE |
| FO FO FO | AUTHORITY FIBRE OPTIC LINE |
| TEL | AUTHORITY COMMS LINE |
| | FENCE LINE |
| | GRATED SURFACE INLET PIT |
| | GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT |
| | JUNCTION PIT |
| | KERB INLET PIT |
| | EXISTING GRATED SURFACE INLET PIT |
| | EXISTING GRATED TRENCH DRAIN |
| | EXISTING JUNCTION PIT |
| | EXISTING KERB INLET PIT |
| eTEL | EXISTING TELSTRA PIT |
| eHYD | EXISTING HYDRANT |
| eSV | EXISTING STOP VALVE |
| eGAS | EXISTING GAS VALVE |
| ePP | EXISTING POWER POLE |
| eBT | EXISTING BOUNDARY TRAP |

| LEGEND | | |
|--------|--------|------------------------|
| FF ● | | FIRST FLUSH |
| | eSMH | EXISTING SEWER MANHOLE |
| OFP | | OVERLAND FLOW PATH |
| RWO ● | | RAINWATER OUTLET |
| CO ● | | CLEAR OUT POINT |
| DDO ● | | DISH DRAIN OUTLET |
| PD ● | | PLANTER DRAIN |
| | | CAPPING |
| | (1.01) | PIT TAG/NUMBER |
| RH | | RAINHEAD |
| | | DOWNPIPE DROP |
| | | NON RETURN VALVE |
| | | WALL PENETRATION |
| DP ● | | DOWNPIPE SPREADER |
| | | WARNING LIGHT |
| 0.00 ◆ | | SPOT LEVELS |
| | | BENCHMARK |



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

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.

ABBREVIATIONS:

| | |
|----------|----------------------------------|
| Ø or DIA | DIAMETER |
| CBR | CALIFORNIA BEARING RATIO |
| CH | CHAINAGE |
| CL | CENTER LINE |
| CO | CLEAR OUT |
| DD | DISH DRAIN |
| DDO | DISH DRAIN OUTLET |
| DEJ | DOWELLED EXPANSION JOINT |
| DGB | DENSE GRADED BASECOURSE |
| DGS | DENSE GRADED SUB-BASE |
| DP | DOWNPIPE |
| e | EXISTING |
| FFL | FINISHED FLOOR LEVEL |
| GTD | GRADED TRENCH DRAIN |
| GSIP | GRADED 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 |
| OFP | 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 |
| TWL | TOP WATER LEVEL |
| TP | TANGENT POINT |
| UPVC | UNPLASTICISED POLYVINYL CHLORIDE |
| UNO | UNLESS NOTED OTHERWISE |
| WPJ | WEAKENED PLANE JOINT |
| FF | FIRST FLUSH DEVICE |
| TYP | TYPICAL |
| BM | BENCH MARK |

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 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm 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 CLIP

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 45° – 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 20MPa 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 A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

STORMWATER PIPE BEDDING/PAVING NOTES:

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

FOOTPATH REINSTATEMENT NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:

| | |
|---|---------------|
| SELECT FILL | 95% MODIFIED |
| SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) | 98% MODIFIED |
| BASE COURSE | 100% MODIFIED |

EROSION & SEDIMENT CONTROL NOTES:

PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY COMPLETE PRECISION SURVEYS, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. PRIME ENGINEERING CONSULTANTS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAW.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT PRIME ENGINEERING CONSULTANTS.

ADOPT DATUM RL 41.50. (A.H.D) AS PER COMPLETE PRECISION SURVEYS.

| DRAWING REGISTER | | |
|------------------|------------------------------------|----------|
| NUMBER | NAME | REVISION |
| SW0 | COVER SHEET | A |
| SW1 | SPECIFICATIONS SHEET | A |
| SW2 | STORMWATER DRAINAGE PLAN & DETAILS | A |



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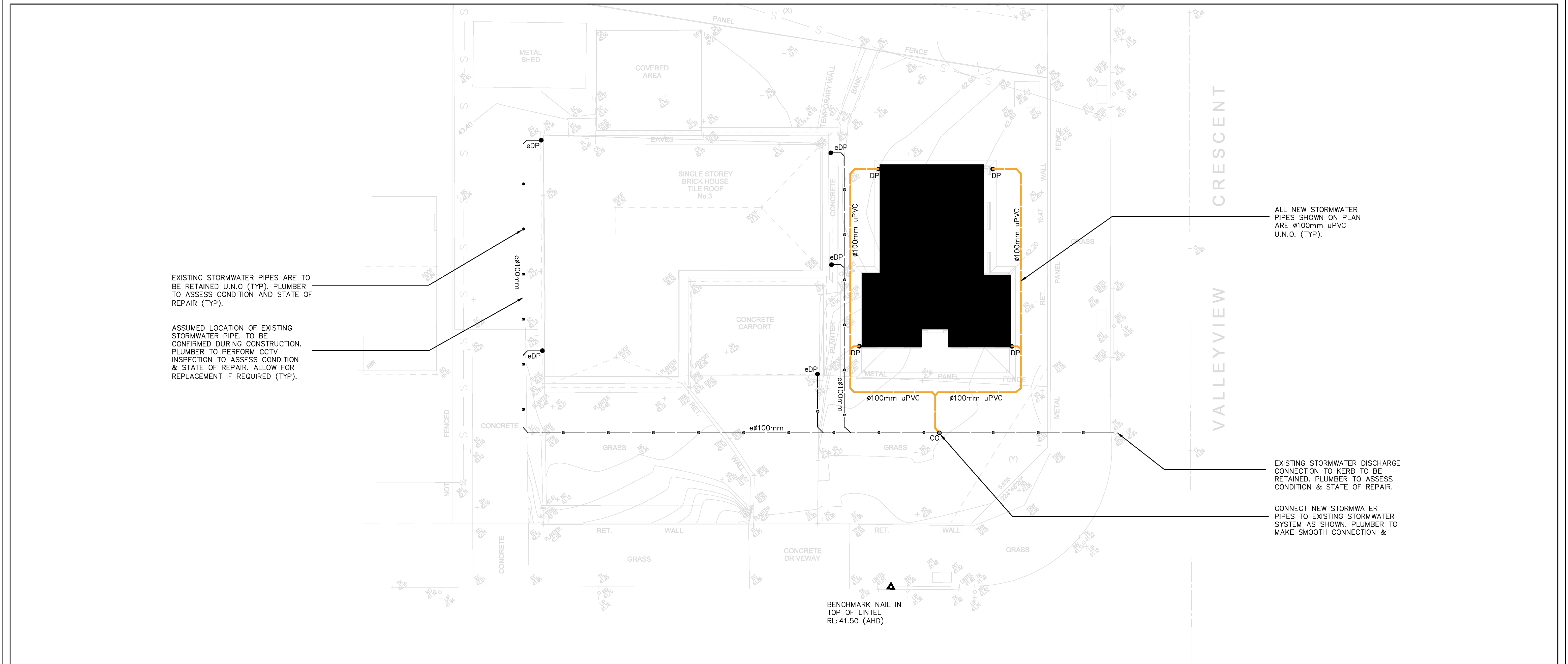
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| DRAWN | DATE | DESCRIPTION | ISSUE | CLIENT | DESIGNED BY: | D.S. | ISSUE: | SPECIFICATIONS SHEET |
| D.S. | 20.10.2021 | ISSUED FOR DA | A | | CHECKED BY: | D.S. | A | |
| | | | | SITE ADDRESS | SCALE: | 1:100 | | |
| | | | | 3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS | CLIENT REF: | ARCH DRAWING NO: | SHEET NO: | |
| | | | | | PSW21283 | TD3V14821 | SW02 | |
| | | | | | | | | |



GROUND FLOOR PLAN
SCALE 1:100

DESIGN NOTES:

THE SITE IS LOCATED IN PENRITH CITY COUNCIL.

SITE AREA = 806.0m²

THE DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A DETACHED SECONDARY DWELLING.

OSD IS NOT REQUIRED AS PER SECITON 4.1 OF PENRITH CITY COUNCIL STORMWATER DRAINAGE SPECIFICATION FOR BUILDING DEVELOPMENTS 2016.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

INSTALL CLEAR OUT FOR INSPECTION AND MAINTENANCE PURPOSES WHERE REQUIRED.

RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES (REFER DETAIL).

LOCATION RAINWATER TANK SHOWN ON PLAN IS INDICATIVE. TO BE CONFIRMED DURING CONSTRUCTION.

KEY NOTES:

1. ALL EXISTING STORMWATER PIPES AND DOWNPIPES ARE TO BE RETAINED U.N.O (TYP). PLUMBER TO ASSESS CONDITION AND STATE OF REPAIR. ALLOW FOR REPLACEMENT IF REQUIRED.

2. CONTRACTOR TO ENSURE LOCATION OF NEW DWELLING DOES NOT ADVERSELY IMPACT EXISTING STORMWATER SYSTEM. IF SO, CONTRACTOR TO CONTACT STORMWATER ENGINEER PRIOR TO COMMENCING ANY WORKS.

3. CONTRACTOR PERMITTED TO CONNECT TO EXISTING STORMWATER SYSTEM IF FOUND TO BE IN GOOD CONDITION DURING CONSTRUCTION. STORMWATER ENGINEER TO BE CONTACTED PRIOR TO COMMENCING ANY WORKS WHICH VARY FROM THE APPROVED STORMWATER PLANS.

4. IF EXISTING STORMWATER SYSTEM IS CONNECTED TO SEWER, CONTRACTOR IS TO RECTIFY STORMWATER DESIGN AND CREATE A NEW CONNECTION AS PER COUNCIL SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONTRACTOR TO CONTACT STORMWATER ENGINEER PRIOR TO COMMENCING ANY WORKS.

EROSION & SEDIMENT CONTROL NOTES:

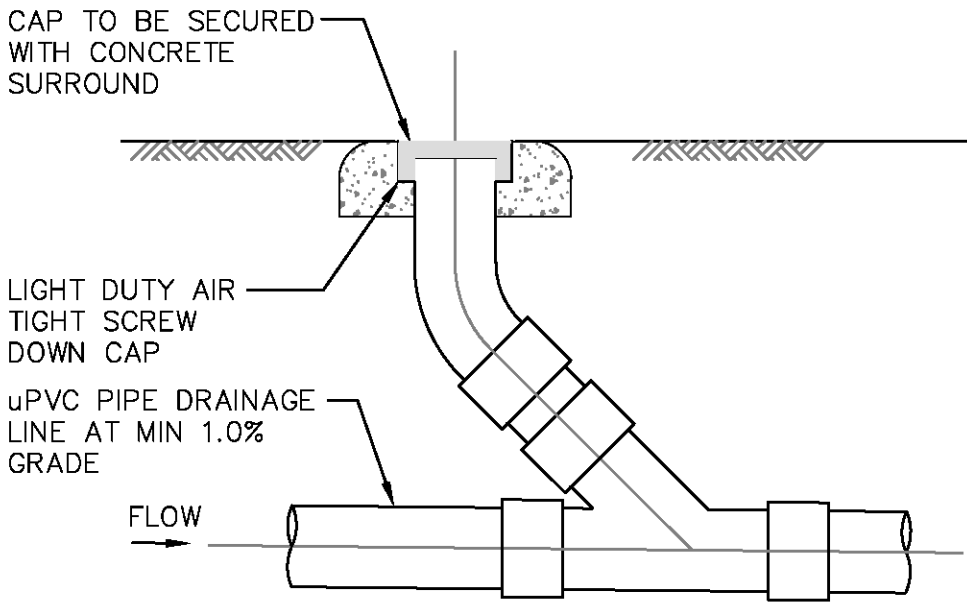
CONTRACTOR TO PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYP).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.



DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN PROVIDED BY A1 GRANNY FLAT'S SITE PLAN REFERENCED TD3V14821 DATED 18/10/2021. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.



DETAIL 1
CLEANING EYE
SCALE 1:20

| | | | | | | | | | | |
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| <div><p>PRIME ENGINEERING CONSULTANTS</p><p>Unit 11 / 9-12 Lambridge Place, PENRITH 2750 NSW Ph: 02 4730 7270 E: info@a1grannyflats.com.au</p></div> <div><p>Suite 1, 6 Weld Street, Prestons NSW 2170</p><p>M: 0450 877 463 M: 0428 088 893</p><p>www.primeec.com.au admin@primeec.com.au</p></div> | <div><p>A1 GRANNY FLATS</p><p>Unit 11 / 9-12 Lambridge Place, PENRITH 2750 NSW Ph: 02 4730 7270 E: info@a1grannyflats.com.au</p></div> | DRAWN | DATE | DESCRIPTION | ISSUE | CLIENT | DESIGNED BY: | D.S. | ISSUE: | SITE STORMWATER DRAINAGE PLAN |
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