

CLIENT NAME : A.Singh & P.Ahluwalia

SITE ADDRESS : 9 WALSHAW STREET, PENRITH NSW.

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NOTES :

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OWNER'S RESPONSIBILITY

RETAINING WALLS TO BE COMPLETED TO ENG'S DETAILS (IF REQUIRED).
DISH DRAINS (IF NEEDED) TO AUTHORITIE'S REQUIREMENTS.
EXISTING TREES, STUMPS, CONC. PATHS, BUILDINGS, ETC., TO BE DEMOLISHED FROM BUILDING AREA PRIOR TO 2 ND SITE INSPECTION.
FENCING, LANDSCAPING AND DRIVEWAY AFTER HANDOVER.
FOOTPATH RESTORATION AND RETAINING WALL AS REQUIRED BY COUNCIL TO BE CLIENTS RESPONSIBILITY.
NO ALLOWANCE HAS BEEN MADE FOR ANY EXTERNAL STEPS OR LANDINGS IF REQUIRED.
LETTERBOXES.

EXCAVATION & SITE NOTES

EXCAVATE / FILL TO FORM DATUM APPROX ---MM (EXTENT OF EXCAVATION & BATTER TO BE DETERMINED ON SITE. BACKFILL AGAINST FOOT OF SLAB).
SEWER CONNECTIONS TO AUTHORITIES REQUIREMENTS TO WITHIN PROPERTY BOUNDARY.
WATER CONNECTION TO SUPPLY AUTHORITIES MAIN LOCATED IN NEAR SIDE NATURE STRIP.
TEMPORARY PROTECTIVE FENCING TO BLOCK TO MEET SAFETY REQUIREMENTS.
SITE LEVELS SUBJECT TO SECOND SITE INSPECTION.
SUBJECT TO RESULTS OF A SURVEY TO CONFIRM HOUSE & BOUNDARY POSITIONS. DRIVEWAY GRADIENT.
SUBJECT TO POSITION OF SERVICES.
POSSIBLE BAS / BOS (SEWER PEGOUT REQUIRED)
DESIGN LEVELS MAY VARY BY +/- 100 MM.

SCHEDULE OF DRAWINGS :	
SHEET	CONTENTS
1	COVER SHEET
2	SITE PLAN
3	EXISTING AND DEMOLITION PLAN
4	PROPOSED PLAN
5	ROOF PLAN AND SECTION
6	ELEVATIONS
7	SEDIMENTATION PLAN
8	LANDSCAPE PLAN
9	DOOR & WINDOW SCHEDULE

WARNING - UNREGISTERED PLAN

-THIS CONTOUR SURVEY AND DETAIL SURVEY IS BASED UPON AN UNREGISTERED PLAN
-ALL BOUNDARIES AND EASEMENTS ARE UNREGISTERED AND MAY BE AMENDED TO SUIT THE REQUIREMENTS OF COUNCIL OR THE LAND TITLES OFFICE.
-THE INFORMATION MUST BE VERIFIED UPON REGISTRATION.
-NO FURTHER INVESTIGATION HAS BEEN UNDERTAKEN TO DISCLOSE EASEMENTS ETC OMITTED FROM THE UNREGISTERED PLAN.
-STRUCTURE SURVEYING CAN ACCEPT NO LIABILITY FOR ANY LOSS OR DAMAGE HOWSOEVER ARISING, TO ANY PERSON OR CORPORATION, DUE TO OMISSIONS, ERRORS OR VARIATIONS ON THE UNREGISTERED PLAN.
-COPIES OF THIS CONTOUR PLAN MUST NOT BE REPRODUCED WITHOUT NOTICE.

NOTES:

-THIS SURVEY IS FOR CONTOUR PURPOSES. ONLY SERVICES SHOWN HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY.
-CONTOURS SHOWN HAVE BEEN INTERPOLATED FROM SPOT LEVELS TAKEN ON SITE AND ARE A REPRESENTATION OF THE TOPOGRAPHY ONLY.
-DIMENSIONS AND AREAS HAVE BEEN DETERMINED FROM PLANS MADE AVAILABLE AT LPI, NSW AND ARE SUBJECT TO FINAL SURVEY.
-SERVICES SHOWN HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. PRIOR TO ANY SITE WORKS, THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO ESTABLISH ACCURATE POSITION AND DEPTH OF ANY SERVICES.
-DIMENSIONS OF ANY TREES SHOWN ON THE PLAN ARE APPROXIMATE.

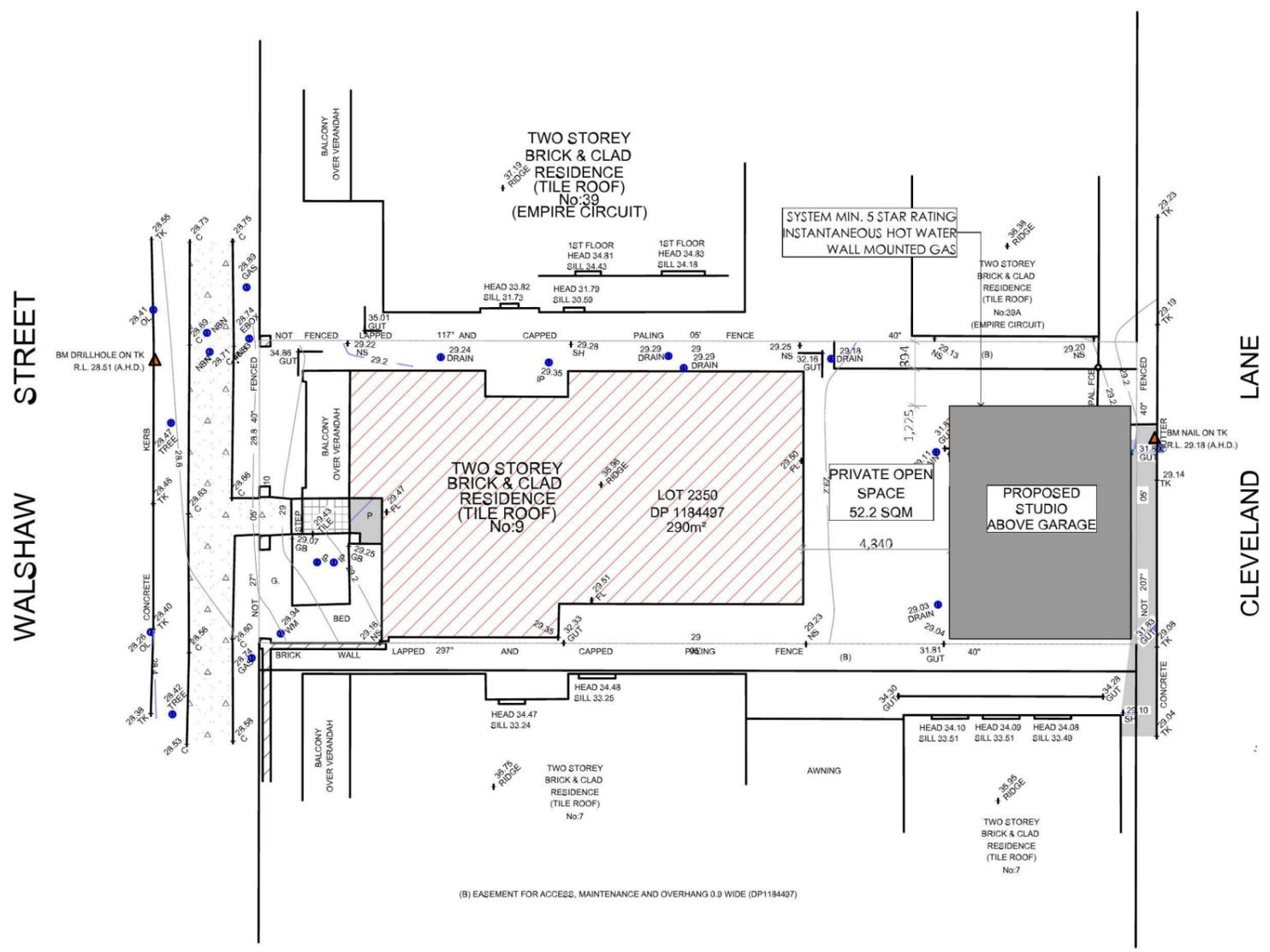
AREA IN SQM	
SITE AREA	290.00
NEW LANDSCAPE AREA	207.22
EXISTING LANDSCAPE	101.10
GARAGE	45.33
STUDIO	77.84
PORCH	0.80
	722.29 m ²

Floor, walls and ceiling/roof

The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.

Additional insulation requirements	
Construction	Additional insulation required (R-value)
Concrete slab on ground	nil
Suspended floor/open subfloor (R0.7)	1.3 (or 2 including construction) (down)
Floor above habitable rooms or mezzanine (R0.7)	nil
External wall - brick veneer (R0.54)	2.06 (or 2.60 including construction)
External wall - framed (R0.40)	2.20 (or 2.60 including construction)
Internal wall shared with garage (R0.36)	nil
Flat ceiling and pitched roof (>10°)	ceiling: 4 (up), roof: foil/sarking
Windows (Throughout) /for shading: See the Basix certificate/	standard aluminium, single clear

- Basix-Commitments**
/for details: See the Basix certificate/
- Landscape**
The applicant must plant indigenous or low water use species of vegetation throughout 60 square metres of the site
Alternative water
The applicant must install a rainwater tank of at least 2000 litres.
The rainwater tank to collect rain runoff from at least 55 m² of the roof
The applicant must connect the rainwater tank to:
• all toilets in the development
• the cold water tap that supplies each clothes washer
• at least one outdoor tap in the development
- Fixtures**
The applicant must install showerheads with a minimum rating of 3 star (> 6 but <= 7.5 L/min) in all showers in the development.
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.
- Hot Water System:** gas instantaneous with a performance of 6.0 stars /or a system with a higher energy rating/
Cooling
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area and, in at least 1 bedroom: ceiling fans; Energy rating: n/a
Heating
The living areas and the bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.
- Ventilation**
At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a
Kitchen: individual fan, ducted to facade or roof; Operation control: manual switch on/off
Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off
Natural lighting: The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting
Artificial lighting: fluorescent or (LED)/DEDICATED/
1 in the bedrooms/study,
2 in the living,
The kitchen, Bathroom, Laundry and ALL Hallways
- OTHER**
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.
The applicant must install a fixed outdoor clothes drying line as part of the development.
The applicant must install a fixed indoor or sheltered clothes drying line as part of the development.



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ADDITIONAL NOTES ALL SERVICE POSITIONS TO BE DETERMINED ON SITE BY SUPERVISOR BULK HEADS TO BE DETERMINED ON SITE BY SUPERVISOR PROVIDE A SUITABLE PEST CONTROL SYSTEM (Termite Barrier Only) CENTER OF DP TO BE 350mm FROM CORNER OF FACE BRICKWORK (UNLESS SPECIFIED ON ELEVATION)

CONSTRUCTION NOTES W/AFFLE POD CONCRETE SLAB ON GROUND CLASS "H" IN ACCORDANCE WITH AC 2870.1 EDGE BEAM TO HABITABLE AREAS STEPPED DOWN APPROX. 150mm. EDGE BEAM TO GARAGE FLOOR STEPPED DOWN APPROX. 35mm. GARAGE FLOOR STEP DOWN APPROX. 75mm STEEL BEAMS REQUIRED AS PER PLANS. 100mm SERVICE CONDUIT TO ISLAND BENCH. TILED CONCRETE PATIO TO FRONT ENTRY & ALFRESCO. PROVIDE 32mpa CONCRETE TO MAIN SLAB AND HIGH IMPACT RESISTANT PLASTIC MEMBRANE IN ORDER TO COMPLY WITH SALINITY AFFECTED AREAS.

INSULATION REQUIREMENTS R2.0 BRADFORD INSULATION BATTS TO EXTERNAL FRAMED WALLS OF LIVING AREAS & INCLUDING WALLS BETWEEN GARAGE & LIVING AREAS R3.0 BRADFORD INSULATION BATTS TO CEILINGS OF LIVING AREAS (EXCLUDING GARAGE) SARKING & ANTI FLAP PADS TO UNDERSIDE OF THE ROOF TILES (INCLUDING ANTI PONDING BOARD)

FRAMING NOTES SQ. SET OPENINGS TO GROUND FLOOR 2400mm HIGH (UNLESS SPECIFIED ON FLOOR PLANS) CO. SET OPENINGS TO FIRST FLOOR 2400mm HIGH (UNLESS SPECIFIED ON FLOOR PLANS) ALL WARDROBE OPENINGS TO FIRST FLOOR 2100MM HIGH (UNLESS SPECIFIED ON FLOOR PLANS) ALL WARDROBE OPENINGS TO GROUND FLOOR 2400MM HIGH (UNLESS SPECIFIED ON FLOOR PLANS) STRENGTHENING OF ROOF TRUSSES AS REQUIRED DUE TO AIR CONDITIONING. ALL CJ (CONSTRUCTION JOINTS) REQUIRES A STUD WITHIN 300mm ON EITHER SIDE FOR NAILING OF WALL TILES. FRAMES & TRUSSES TO SATISFY AC 1534 CAA TIMBER FRAMING CODE

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 General Notes
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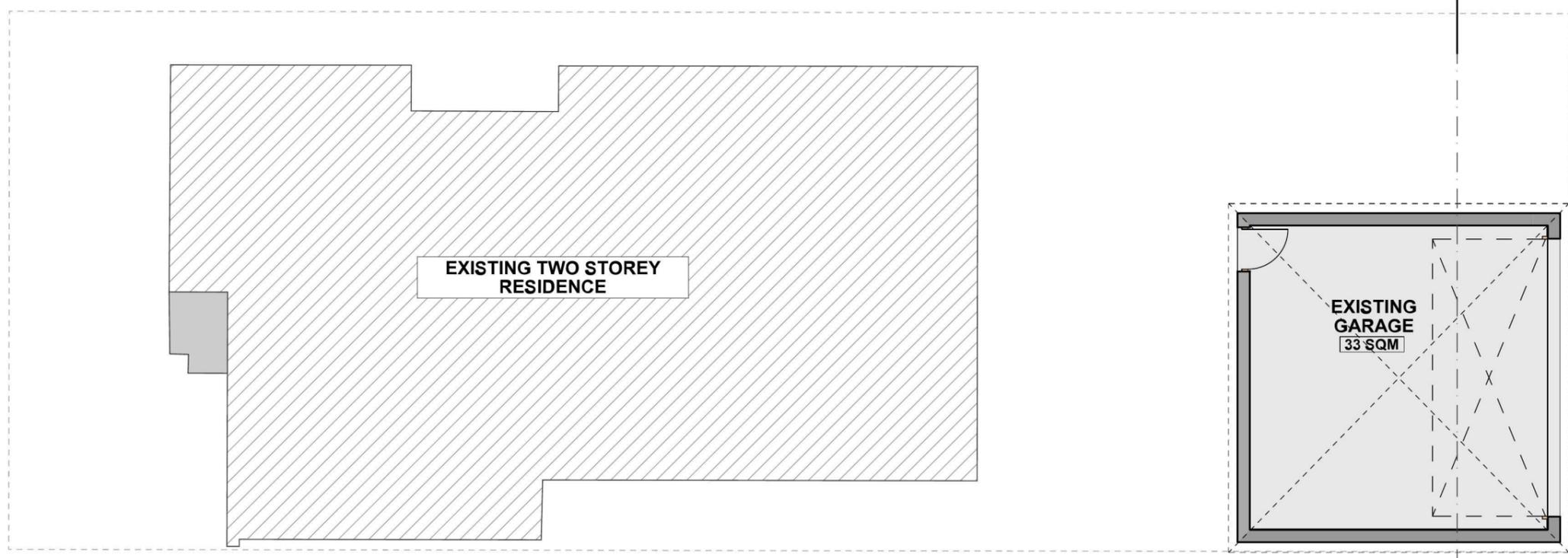
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LOT 2350 / DP 1184497
9 WALSHAW STREET, PENRITH NSW.

DRAWING TITLE :
SITE PLAN

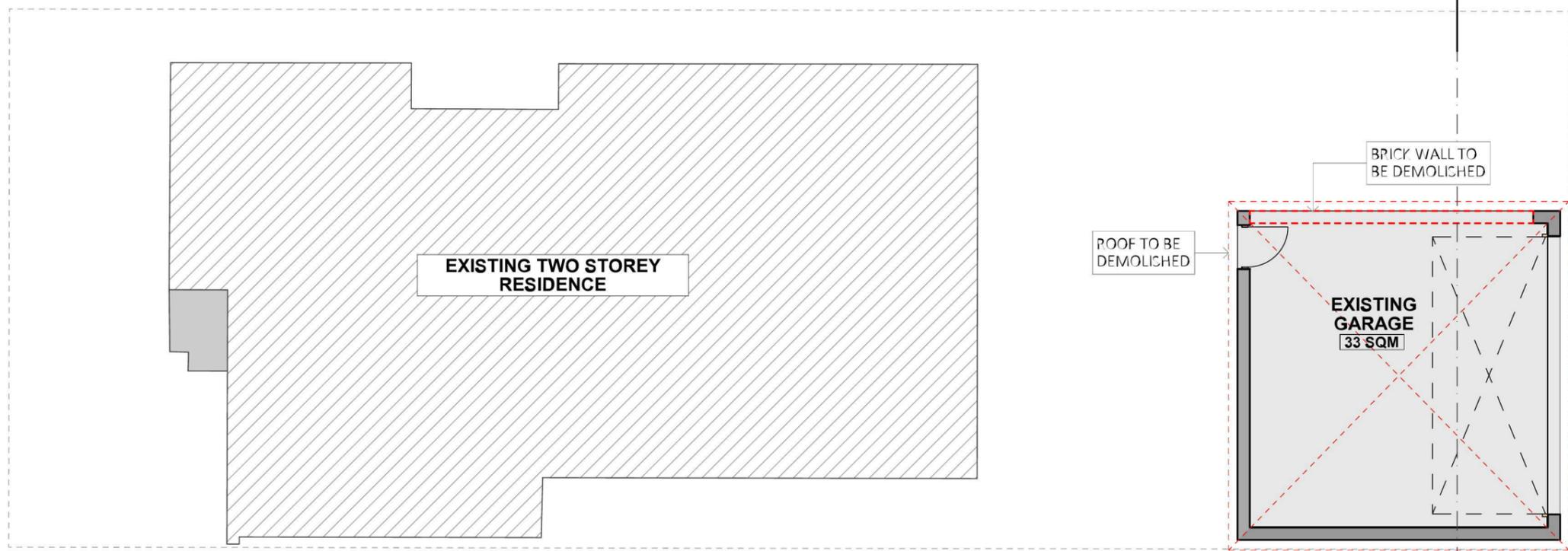
REVISION NO.
REV 01

DRAWING NO.
2

DRAWN BY: BK
CHECKED BY: SK
PROJECT NO.
19 02 164
 Plot Date: 18/02/2019



EXISTING FLOOR PLAN



DEMOLITION PLAN

LEGEND	
	EXISTING STRUCTURE
	DEMOLISHED STRUCTURE
	PROPOSED STRUCTURE
	SITE BOUNDARY

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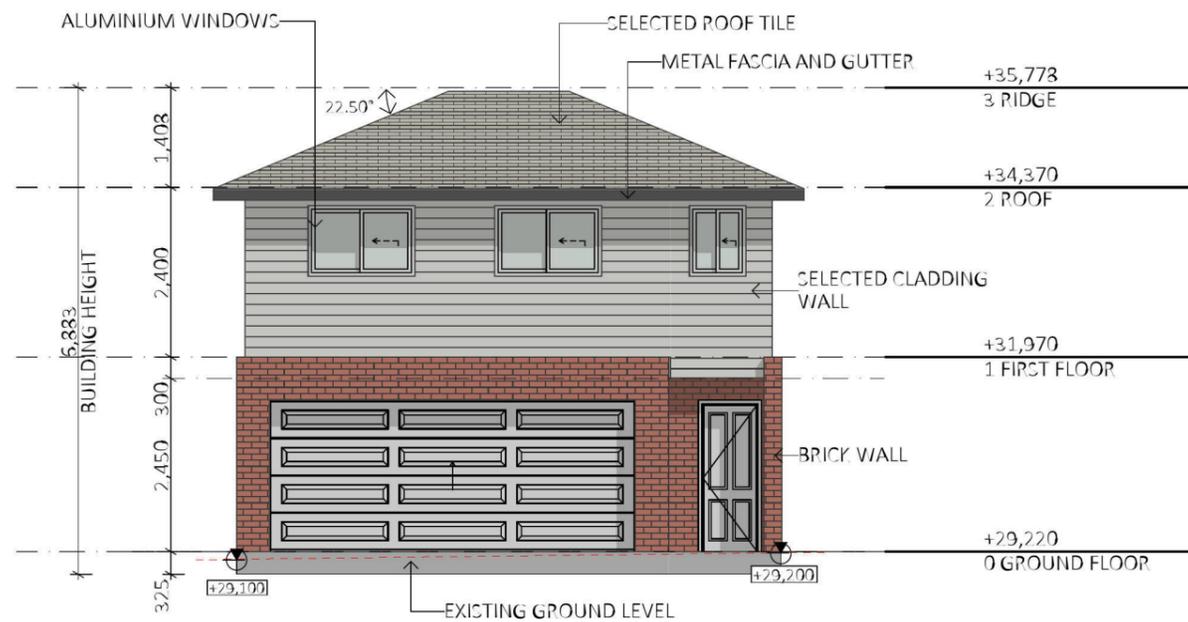
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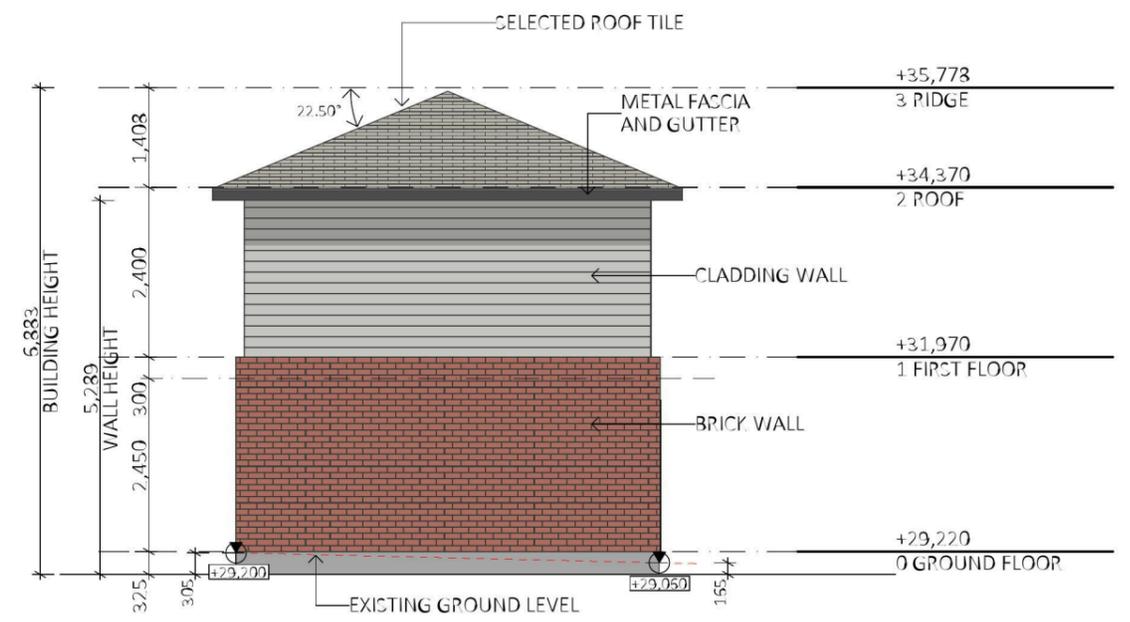
DRAWING TITLE :
EXISTING AND DEMOLITION

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REV 01
 DRAWING NO.
3

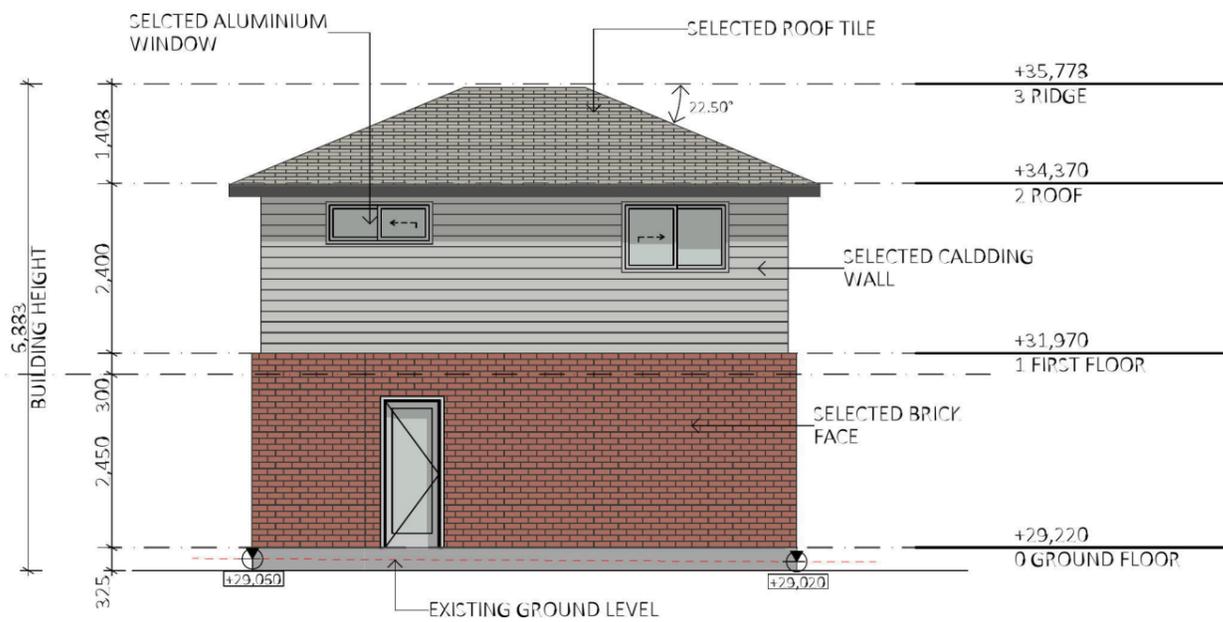
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 Plot Date: 18/02/2019



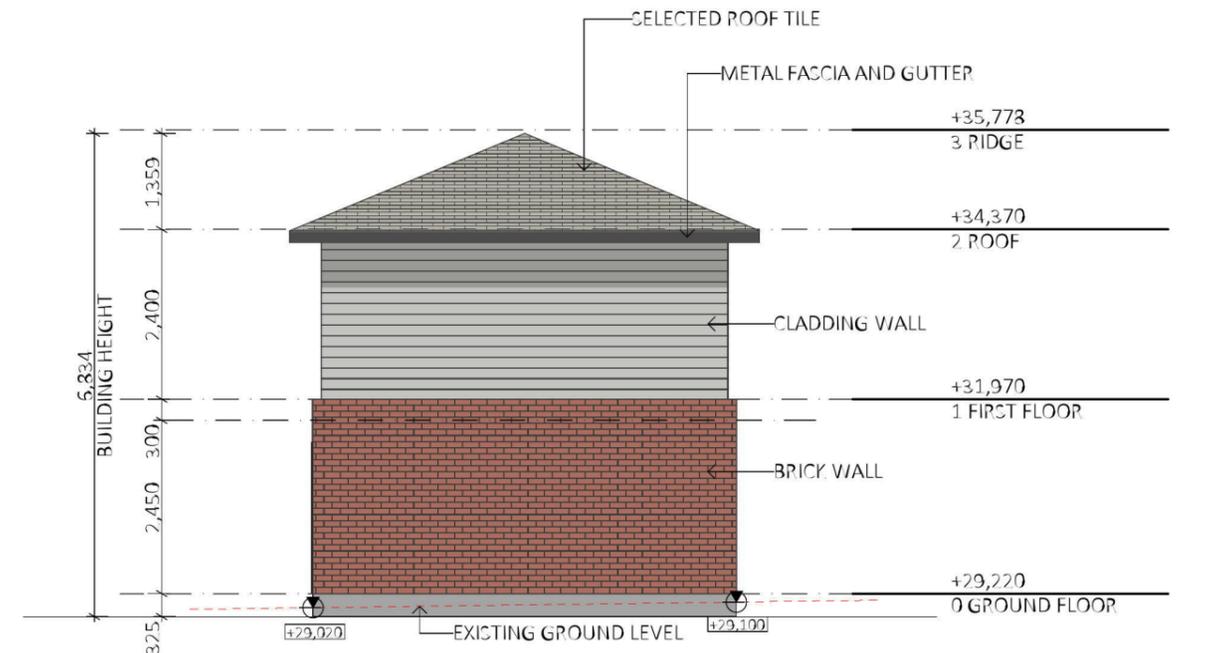
E-03 EAST ELEVATION 1:100



E-02 NORTH ELEVATION 1:100



E-01 WEST ELEVATION 1:100



E-04 SOUTH ELEVATION 1:100

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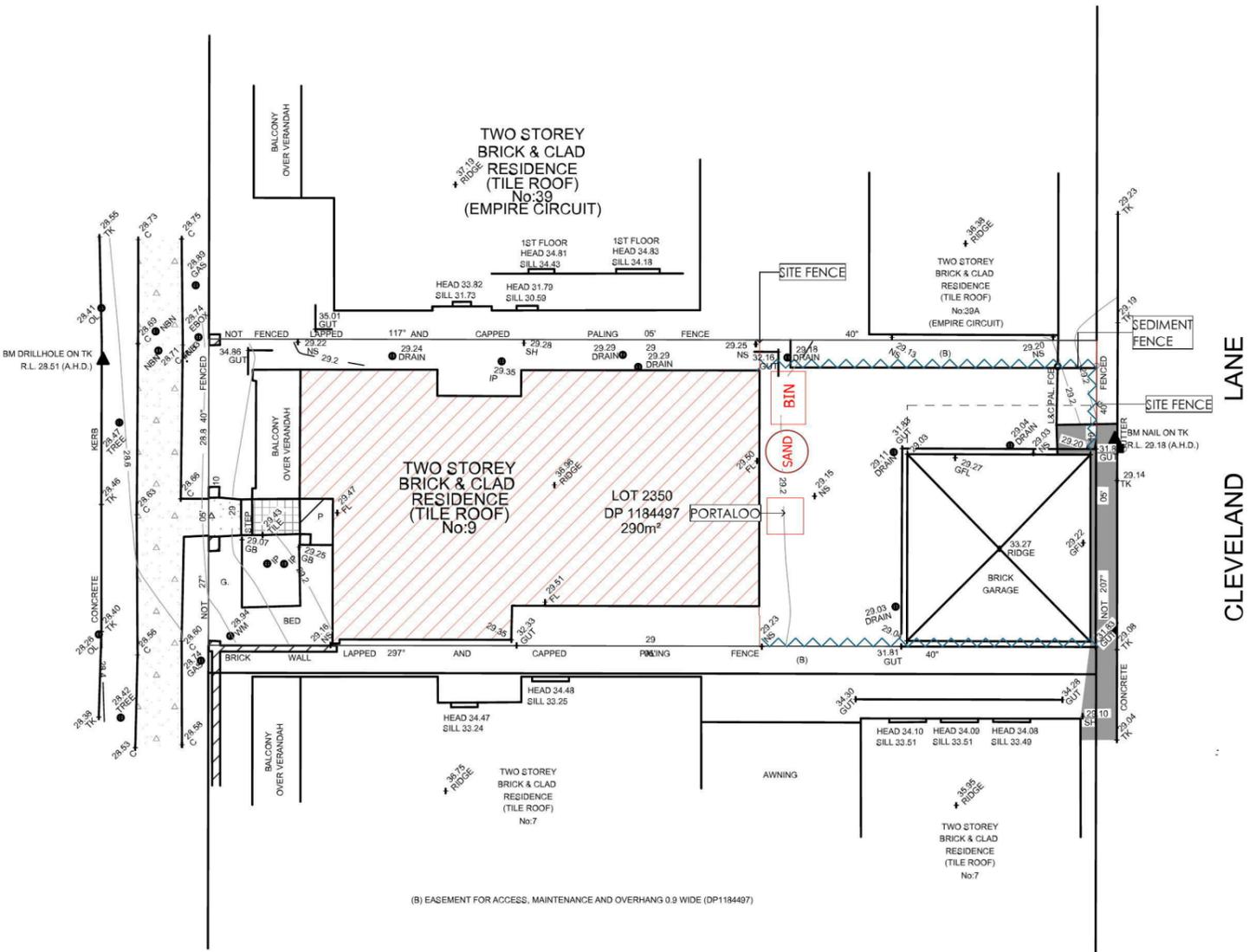
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DRAWING TITLE :
 ELEVATIONS

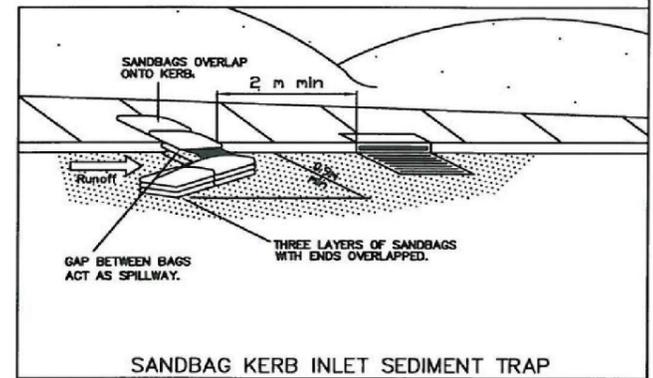
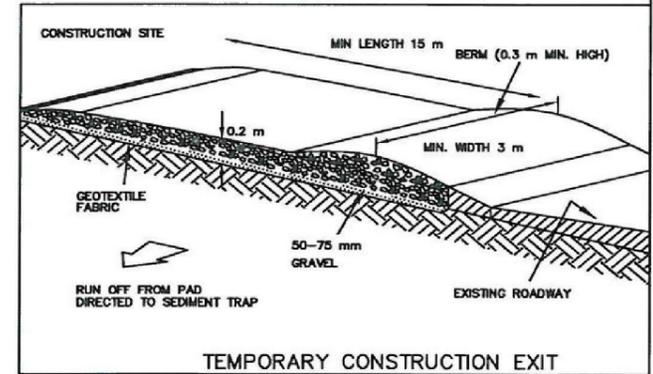
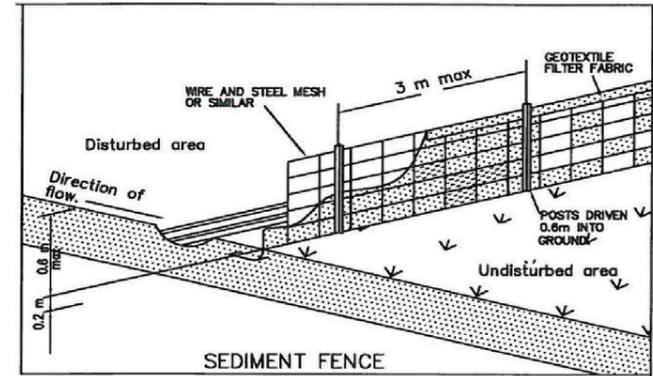
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6

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19 02 164
 Plot Date: 18/02/2019

WALSHAW STREET



(B) EASEMENT FOR ACCESS, MAINTENANCE AND OVERHANG 0.9 WIDE (DP1184497)



SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE STANDARDS OF THE SOIL CONSERVATION OF NSW.
2. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
3. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND ALL INLET PITS, CONSISTING OF 300mm WIDE X 300mm DEEP TRENCH.
4. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM OF 60 % FULL OF SOIL MATERIALS, INCLUDING THE MAINTENANCE PERIOD.
5. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
6. SOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREA WHERE WATER MAY CONCENTRATE.
7. FILTER SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR APPROVED EQUIVALENT BETWEEN POST AT 3.0m CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER

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DRAWING TITLE :
SEDIMENTATION PLAN

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DRAWING NO.	PROJECT NO.	19 02 164
7	Plot Date:	18/02/2019

AREA IN SQM	
SITE AREA	290.00
NEW LANDSCAPE AREA	207.22
EXISTING LANDSCAPE	101.10
GARAGE	45.33
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PORCH	0.80
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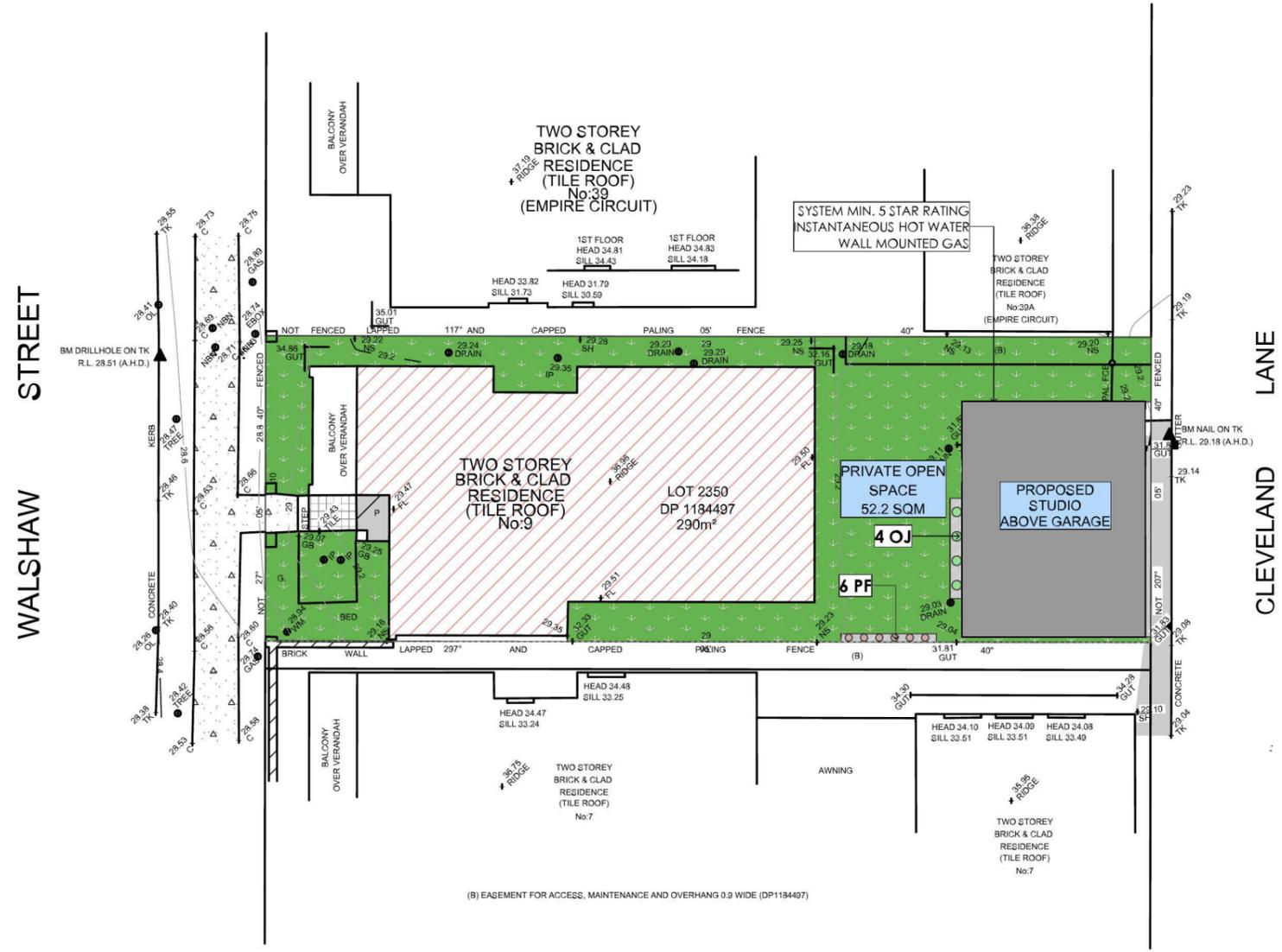


ABB	TYPE OF PLANT	QTY	HEIGHT	POT SIZE
OJ	Ophiopogon Japonicus	4	30 CM	250 MM
PT	Photinia Fraseri	6	30 CM	250MM



Ophiopogon Japonicus



Photinia Fraseri

GE - GARDEN EDGING AS SELECTED TREATED PINE SPLITS 90 MM AT 2.4 MT LENGTH, FASTENED TO HARDWOOD STAKES, MINIMUM DEPTH IN GROUND OF 300 MM WITH GALVANISED TREATED PINE SCREWS (SIZE 75 MM x 8 G).

LAWN - KIKUYU WITH SHIRLEY'S NO.17 FERTILISER ALL PLANTS TO HAVE 35 MM OF BARK CHIP MULCH.

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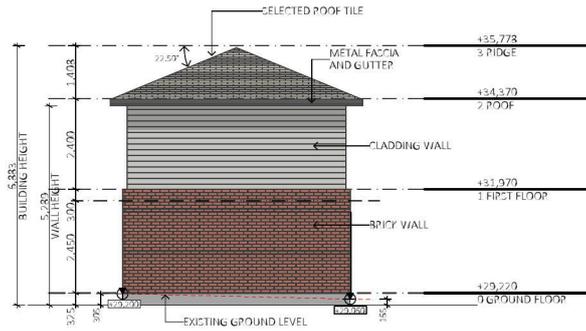
LANDSCAPE PLAN

REVISION NO.	REV 01
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DRAWN BY:	BK
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PROJECT NO.	19 02 164
Plot Date:	18/02/2019



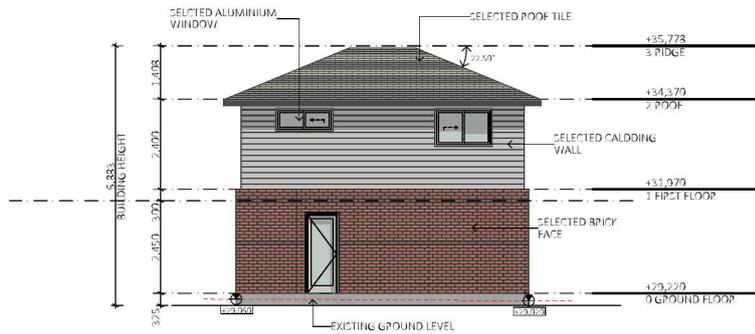
E-03
-

EAST ELEVATION
1:200



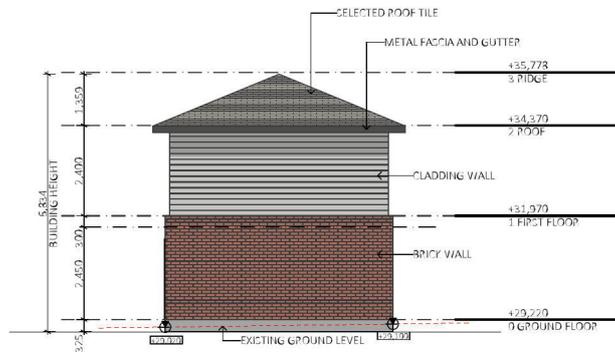
E-02
-

NORTH ELEVATION
1:200



E-01
-

WEST ELEVATION
1:200



E-04
-

SOUTH ELEVATION
1:200

9 WALSHAW STREET, PENRITH NSW.
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PREPARED FOR:
A.Singh & P.Ahluwalia

DESIGNED BY:



HECARD Consult Pty. Ltd.
PO BOX 714
Campbelltown, NSW, 2560
Ph. (02) 4610 1401
Email: info@hecardconsult.com.au
Web: www.hecardconsult.com.au

STORMWATER MANAGEMENT PLAN

FOR PROPOSED STUDIO

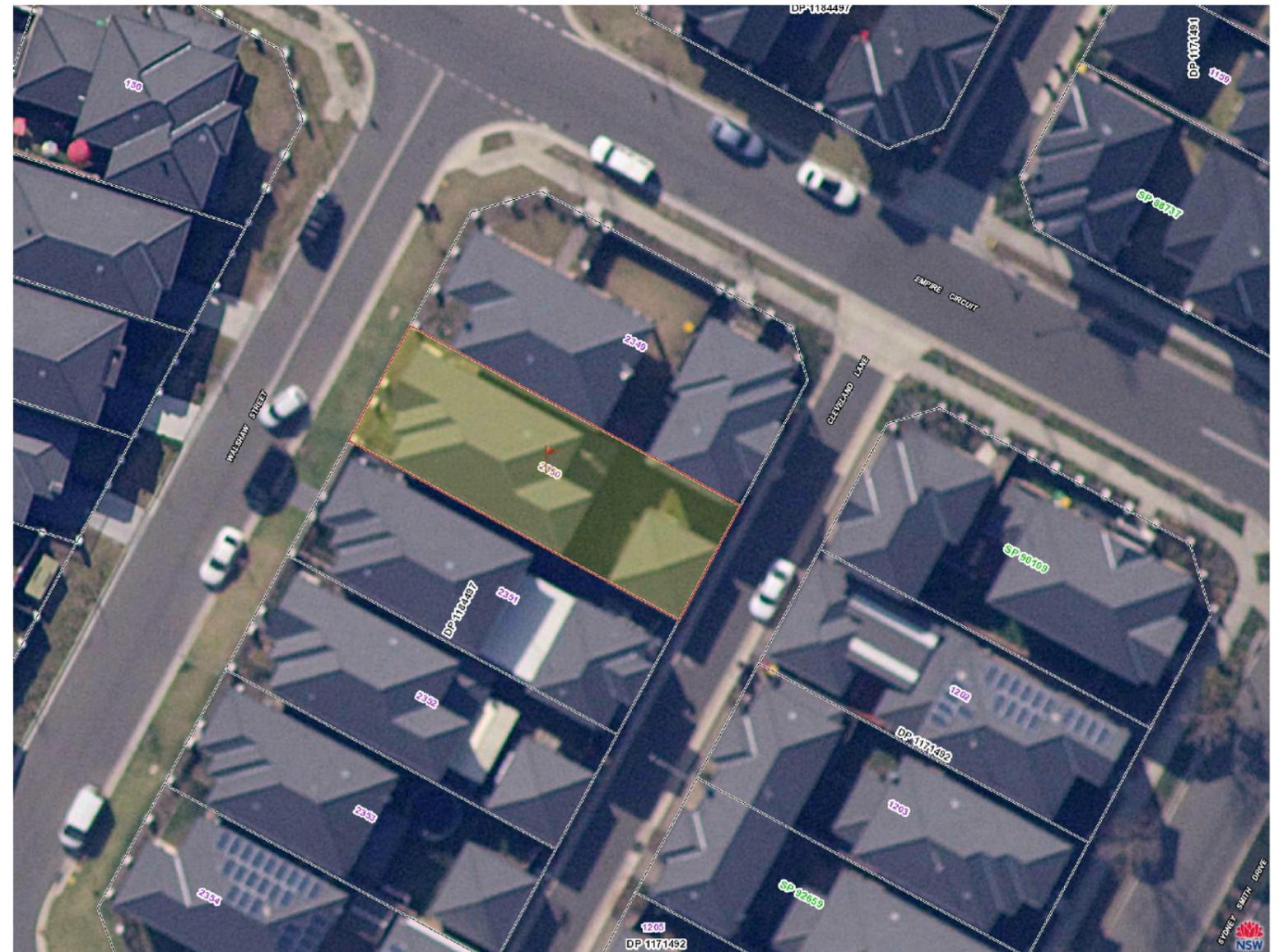
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FOR:



JOB NO: SW33_1902
DATE: 15/02/2019

<u>DRAWING NO</u>	<u>DRAWING TITLE</u>
1	COVERPAGE
2	GENERAL NOTES
3	EAVE GUTTER CALCULATION
4	STORMWATER MANAGEMENT PLAN
5	RAINWATER TANK AND PIT DETAIL
6	EROSION AND SEDIMENT CONTROL PLAN



ISSUED FOR: DA

STORMWATER DRAINAGE GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT AND ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THESE DRAWINGS. REFER TO ARCHITECT'S FINAL DRAWINGS.
- THE BUILDER SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING AND NEW SERVICES, AND SHALL BE RESPONSIBLE FOR DAMAGE TO THE SAME.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SSA CODES, AND THE BY-LAWS AND ORDINANCES OF THE COUNCIL EPA AND WORKCOVER AS 3500 PART 2 & 3
- PREPARE PROGRESSIVELY AND FURNISH TO THE ENGINEER WORK AS EXECUTED DRAWINGS OF THE SAME SIZE AND QUALITY AS THIS DRAWING BUT ACCORDANCE WITH DA CONDITIONS AND CC REQUIREMENTS.
- GIVE SUFFICIENT NOTICE SO THAT INSPECTION MAY BE CARRIED OUT AT THE FOLLOWING STAGES: WORK READY FOR SPECIFIED TESTING, WORK READY TO BE COVERED OR CONCEALED.
- OBTAIN APPROVAL BEFORE INTERRUPTING AN EXISTING SERVICE. KEEP THE NUMBER OF INTERRUPTIONS TO A MINIMUM.
- LAY PIPES TO THE LEVELS SHOWN ON THE DRAWINGS AND IN ANY CASE NOT LESS THAN THE FOLLOWING:
DIA. 100 MM @ 1.0%, DIA 150 MM @ 1.0%, DIA 225 MM @ 0.5%, DIA 300 MM @ 0.5%
- ENDS OF PIPES AND STUB CONNECTIONS TO BE SEALED WITH AN APPROVED SEALED DISC.
- MILD STEEL STAR PICKET 1200 mm LONG WITH 300 mm PAINTED GREEN EXTENDED ABOVE GROUND LEVEL TO BE PLACED AT EACH INTERLOTMENT DRAINAGE CONNECTION POINT.
- GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION

STORMWATER DRAINAGE NOTES:

- CONTRACTOR IS TO VERIFY THE LEVEL AND LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF EXCAVATION.
- THE CONTRACTOR IS TO VERIFY ANY CONFLICT OF SERVICES IN THE ROAD RESERVE OR SUBJECT PROPERTY AND THE

ENGINEER IS TO BE NOTIFIED AT THE EARLIEST POSSIBLE CONVENIENCE

- THE CONTRACTOR TO VERIFY THE INVERT LEVELS AT POINT OF CONNECTION TO EXISTING STORMWATER SYSTEM AND REPORT ANY CONFLICT OF LEVELS
- ALL BUILDINGS HAVE RAISED SO THERE IS AT LEAST 150 mm STEP UP INTO THE BUILDING TO ALLOW SUFFICIENT FREEBOARD FOR OVERLAND FLOWS IN THE CASE OF PIPE BLOCKAGE
- DOWNPIPES AND PITS LOCATIONS AND LEVELS MAY BE VARIED TO SUIT THE SITE CONDITIONS, AFTER ENGINEERING APPROVAL
- DOWNPIPES SHOWN ARE INDICATIVE ONLY. ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS
- DRAINAGE PIPES TO BE CONCRETE ENCASED WHERE LOCATED UNDER DRIVEWAY OR BUILDING
- ALL PIPES TO BE FULLY HOUSED INTO PIT WALLS AND JOINED / SEAL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- GRADE ALL PAVED AND GRASSED AREAS AWAY FROM THE BUILDING.
- TOP OF GRATE TO BE POSITIONED TO CATCH ALL UPSTREAM SURFACE FLOWS AS INDICATED BY PLANS.
- ALL PIPES WITHIN THE PROPERTY TO BE MIN. OF 150 DIA, @ 1% MIN. GRADE, UNO.
- ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULHEADS AT ALL JOINTS.
- ALL PITS WITHIN THE PROPERTY AREA TO BE FITTED WITH WELDOK OR APPROVED EQUIVALENT GRATES TO AS3996:
 - LIGHT DUTY FOR LANDSCAPE AREAS
 - HEAVY DUTY WHERE SUBJECTED TO VEHICULAR CROSSING
- ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
- ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING BOLTS AND CONTINEOUS HINGE
- ALL COURTYARD AND LANDSCAPE PITS TO BE 400 SQUARE, UNO
- ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE.
- PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH.
- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE MIN. 25 MPa

- PROVIDE CONCRETE BENCHING ACROSS PIT TO SUIT INLET AND OUTLET PIPES AS DETAILED
- DIA 100 SUBSOIL DRAINAGE PIPE 3.0 M LONG WRAPPED IN FABRIC SOCK TO BE PLACED ADJACENT TO INLET PIPES ON BOTH SIDES AND 100 MM MIN. ABOVE PIT FLOOR
- SUB SOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS AND EMBANKMENTS WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.
- SELECTED GRANULAR BACKFILL IS TO BE PLACES AGAINST THE FULL HEIGHT OF THE PIT VERTICAL FACES AND FOR A HORIZOONTAL DISTANCE EQUAL TO ONE-THIRD THE HEIGHT OF THE STRUCTURE.
- MORTAT BASES TO BE SHAPED TO GIVE MIN 20 mm FALL ACROSS PITS
- MORTAR BASES TO BE DISHED TO SUIT ADJOINING PIPE SIZES TO GICE SELF CLEANSING PITS.
- WHERE PIT DEPTH EXCEEDS STANDARD DEPTH, CONCRETE SHALL BE USED AS PIT BASE, AND ALSO TO GAIN REQUIRED INLET/ OUTLET LEVELS.
- THE INLET PIPE OBVERT IS TO BE HIGHER THAT THE OUTLET PIPE OBVERT
- ALL SWAYLES SHALL HAVE A TURFED INVERT EXTENDING 0.5 m UP THE SIDE SLOPES
- HAND EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS
- FOOTHPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS
- ALL FENCES MUST BE RAISED 150 mm FROM THE FINISHED GROUND LEVELS SO THAT OVERLAND FLOWS FROM UPSTREAM PROPERTIES ARE NOT RESTRICTED OR BLOCKED.

RAINWATER TANK NOTES:

- THE SYSTEM TO BE INSTALLED WITH THE FOLLOWING CONSIDERATIONS:
- A 'FIRST FLUSH' DIVERSION TO REMOVE ROOF CONTAMINANTS
- ADEQUATE SCREENING TO PROVIDE MOSQUITO BREEDING AND ENTRY OF ANIMAL OR FLOATING MATTER
- TANKS TO BE PLUMBED TO TOP-UP FROM THE POTABLE WATER SUPPLY DURING DRY PERIOD WHEN THE TANK IS 80% EMPTY.
- NO DIRECT CROSS-CONNECTION WITH THE POTABLE WATER SUPPLY AND AN AIR GAP MAINTAINED ABOVE THE OVERFLOW IN THE TANK.

RAINWATER TANK TO BE CONNECTED TO ALL TOILETS, LAUNDRY AND AT LEAST ONE (1) OUTDOOR TAP.

DESIGN NOTES

- ALL EVE GUTTERS AND DOWNPIPES ARE DESIGNED FOR 10 YEAR ARI STORM EVENT.
- BOX GUTTER AND RAINWATER HEADS ARE DESIGNED FOR 100 YEAR ARI STORM EVENT
- INTENSITY FREQUENCY DURATION (IFD) DESIGN CHART OBTAINED FROM BUREAU OF METEOROLOGY HAS BEEN USED TO DESIGN ON SITE DETENTION SYSTEM.
- **SEDIMENT FENCE**
- SEDIMENT CONTROL DEVICES ARE TO BE IN PLACE PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
- CONSTRUCT A SILT BARRIER FENCE AS SHOWN ON PLAN AND TO DETAILS AS ABOVE.
- SEDIMENT CONTROL DEVICES ARE TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL COMPLETION OF ALL SITE WORKS OR TO THE SATISFACTION OF THE COUNCIL SUPERVISING OFFICER.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SEDIMENT BARRIER AROUND PIT:

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
- SUPPORT GEOTEXTILE WITH MESH TIED TO THE POSTS AT 1000 MM CENTERS.
- DONOT COVER INLET WITH GEOTEXTILE

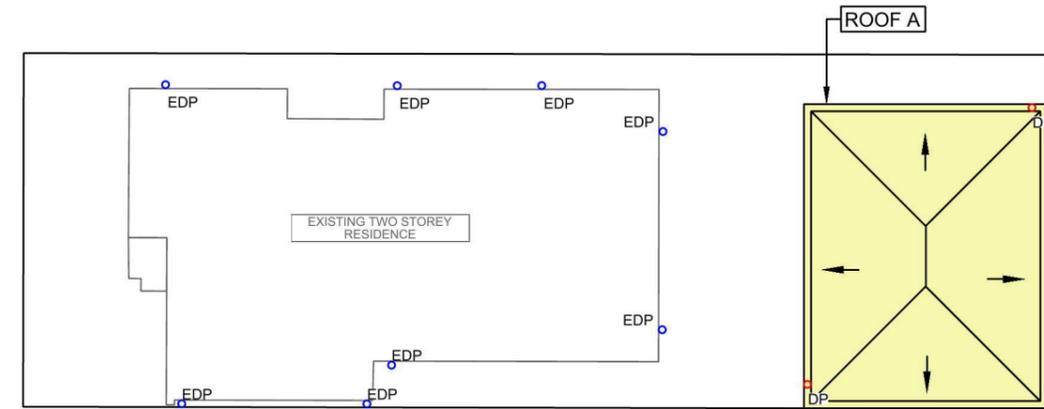
STANDARD PIPE TRENCH

- SAND FREE FROM ROCK OR OTHER HARD AND SHARP OBJECTS THAT WOULD RETAINED ON 13.2 SEIVE
- CRISHED ROCK OR GRAVEL OF APPROVED GRADING UP TO MAX SIZE OF 14 mm
- THE EXCAVATED MATERIAL MAY BE USED IF IT IS FREE FROM ROCK OR HARD MATTER AND BROKEN UP SO STHAT IT CONTAINS NO SOIL LUMPS HAVING ANY DIMENSION GREATER THAN 75 mm WHICH WOULD PREVENT ADEQUATE COMPACTION OF THE BEDDING
- MATERIAL FOR PIPE SIDE SUPPORT SHOULD BE ADEQUATELY TAMPED IN LAYERS OF NOT MORE THAN 150 mm.
- PIPE OVERLAY MATERIAL SHOULD BE LEVELLED AND TAMPED IN LAYERS TO A MINIMUM HEIGHT OF 150 mm ABOVE THE CROWN OF THE PIPE

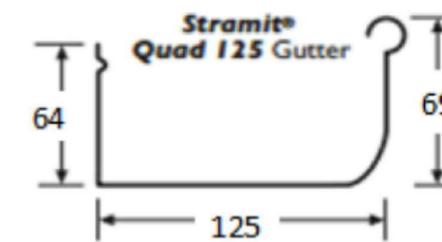
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					Project:		Proposed Development at 9 WALSHAW STREET, PENRITH, NSW 2750	Designed By: Chij Shrestha MIEAust, CPEng, NER
						Reviewed By: C.L.A	Issue: A	Job No: SW33_1902
						Scale: as shown (A3)		
A	ISSUED FOR DA	CS	15/02/2019					
Rev	Description	By	Date					

EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2015

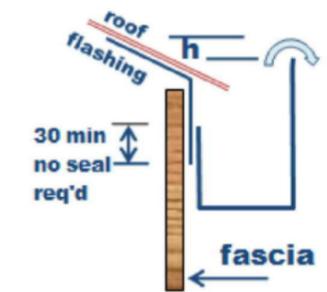
DESCRIPTION		UNIT	ROOF
			A
Horizontal catchment area	Ah	sq.m	59.25
Roof Average slope	S	degrees	22.5
Intensity	I	mm/hr	177
Is Gutter slope steeper than 1:500 ?			Yes
Down pipe size selected	dia	mm	90
Cross referencing From Table 3.5.2 and Fig 3.5.2	Tnum		2.08
Theoretical number of DPs required			
Selected Number of Down pipes	n		2
from AS3500 Table 3.4.5.2, C'ment Area Multiplier	f		1.21
Roof Area allowing for slope	Ac	Ah*f	
		sq.m	71.7
Catchment Area per DP	A	sq.m	Ac/n
		sq.m	35.8
Flow/DP	q	litres/sec	I*A/3600
		litres/sec	1.76
from AS/NZS 3500 fig 3.5.2(C), Gutter Area		sq.mm	6200
Gutter Area rounded to nearest 100sq.mm		sq.mm	6200
From AS/NZS 3500 Table 3.5.2,, Down Pipe size		mm	90
Down Pipe size selected		mm	90
Summary			
This catchment requires :- number of DPs			2
Downpipe size		mm	90
minimum eaves gutter cross sectional Area		sq.mm	6200



STORMWATER MANAGEMENT PLAN (ROOF)
scale 1:200



RECOMMENDED GUTTER = Stramit Quad 125
Unslotted NSW; Area = 6200 mm²
OR
EQUIVALENT SHOULD BE USED



Overflow over the front with flashing

REQUIRED SETDOWN (h) FOR 1% AEP
GUTTER OVERFLOW = 20 mm

RECOMMENDED GUTTER = Stramit Quad 125 Unslotted NSW; Area = 6200 mm²
(note assuming the catchment area of each DP is roughly similar)

Rev	Description	By	Date
A	ISSUED FOR DA	CS	15/02/2019

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Client:



Project:

Proposed Development at
9 WALSHAW STREET, PENRITH, NSW 2750

Title:

EAVE GUTTER CALC SH3

Designed By:

Chij Shrestha
MIEAust, CPEng, NER

Date: 15/02/2019

Issue: A

Reviewed By:

C.L.A

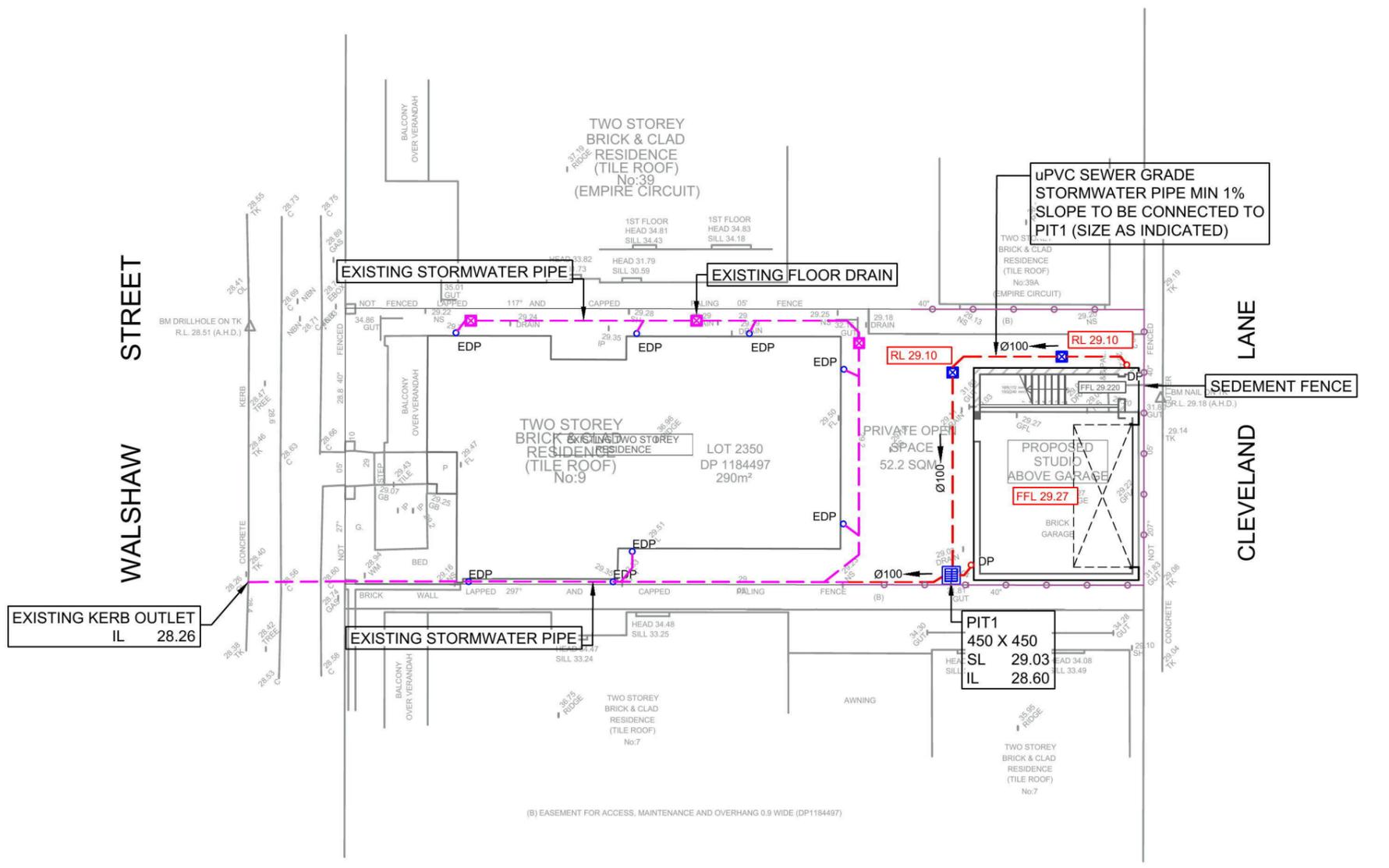
Job No: SW33_1902

Scale:

as shown (A3)

NOTE:

- EXISTING GUTTER AND DOWNPIPES HAVE NOT BEEN ACCESSED IN THIS DESIGN
- LOCATION OF EXISTING STORMWATER PIPES SHOWN IN THE PLAN IS INDICATIVE ONLY. BUILDERS TO CONFIRM ITS SIZE, POSITION AND CONDITION DURING CONSTRUCTION.



STORMWATER MANAGEMENT PLAN
scale 1:200

LEGENDS:

- EDP EXISTING DOWN PIPES Ø90 mm
- DP DOWN PIPES Ø90 mm
- uPVC STORMWATER PIPES
- EXISTING STORMWATER PIPES
- RAINWATER TANK
- AGGPIPE FOR SUBSURFACE DRAINAGE
- STORMWATER PIT
- GRATED DRAIN 150 mm
- RETAINING WALL
- 150 X 150 GRATED FLOOR DRAIN
- FINISHED GROUND LEVEL

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A	ISSUED FOR DA	CS	15/02/2019

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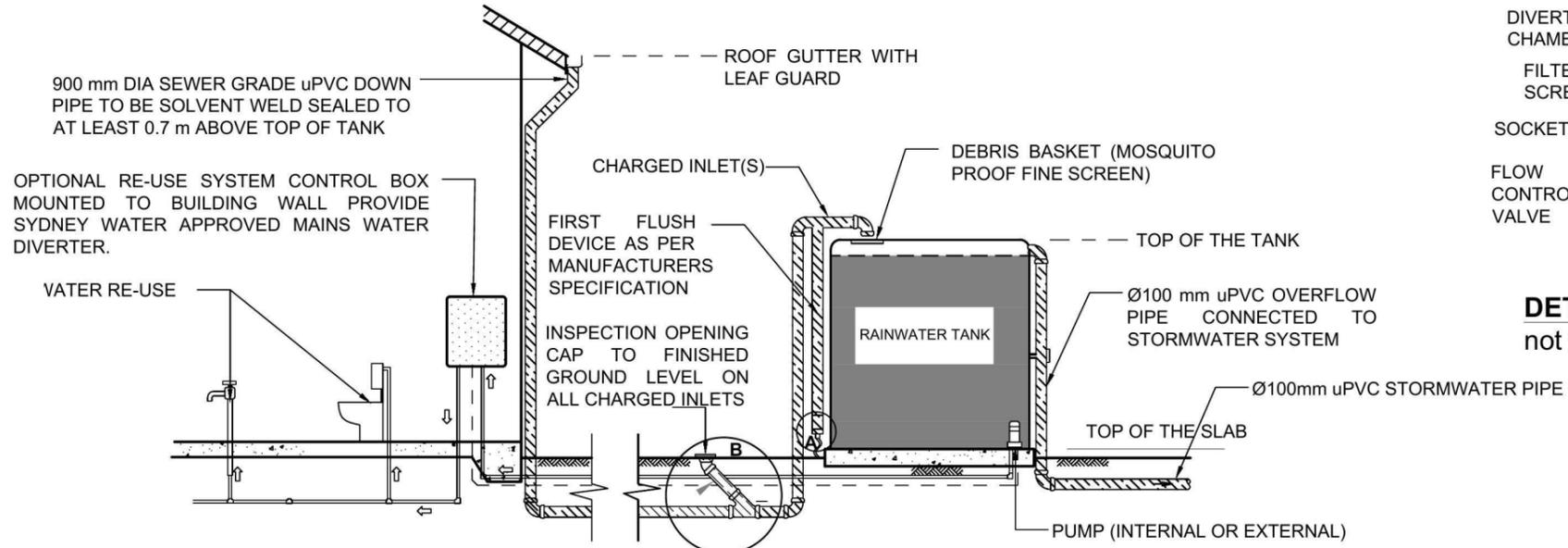
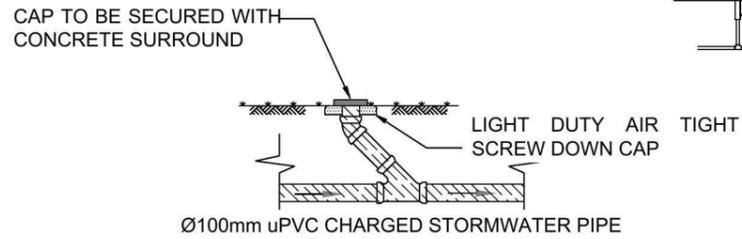
Client:  ARTECH HOMES
BUILDING A BETTER LIFE

Project: Proposed Development at
9 WALSHAW STREET, PENRITH, NSW 2750

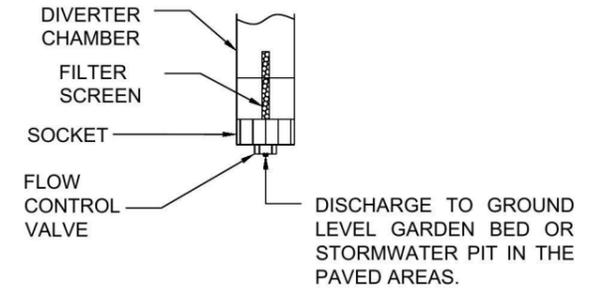
Title: STORMWATER PLAN SH4	
Designed By: Chij Shrestha MIEAust, CPEng, NER	Date: 15/02/2019
Reviewed By: C.L.A	Issue: A
Scale: as shown (A3)	Job No: SW33_1902



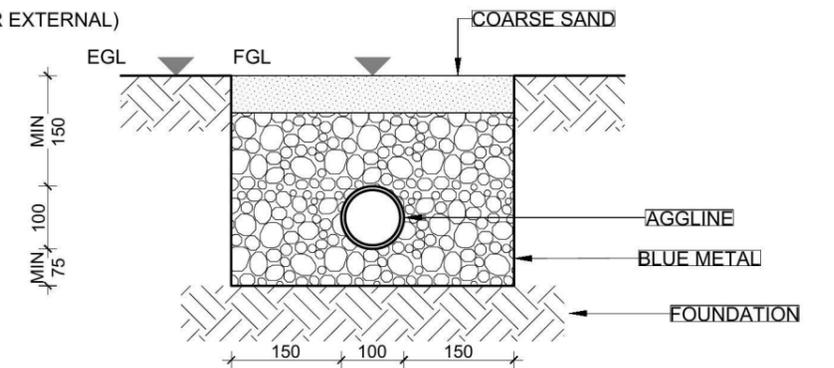
TYPICAL WARNING SIGN
not to scale



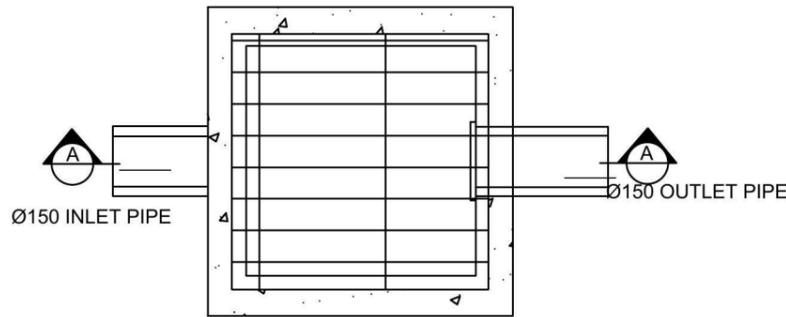
TYPICAL RAINWATER TANK DETAIL (IF REQUIRED)
not to scale



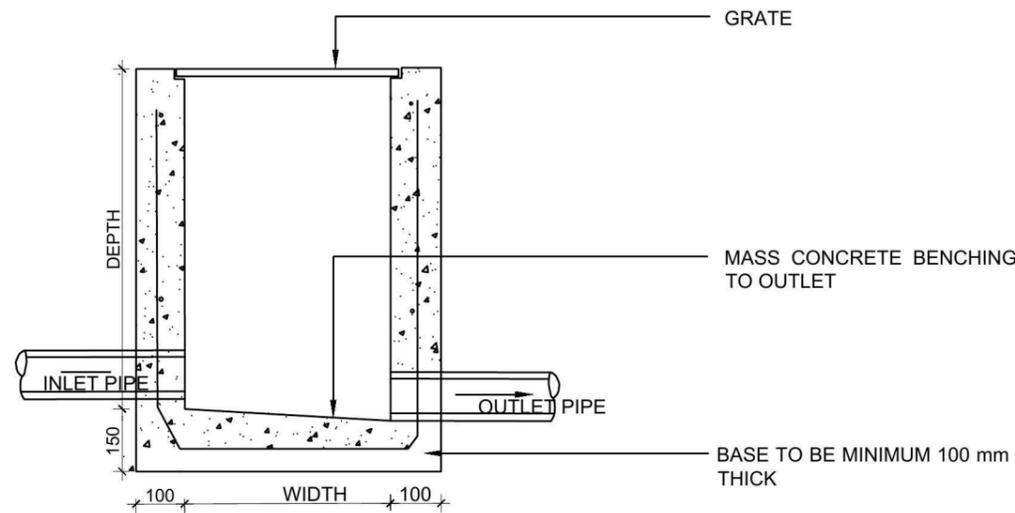
DETAIL AT A
not to scale



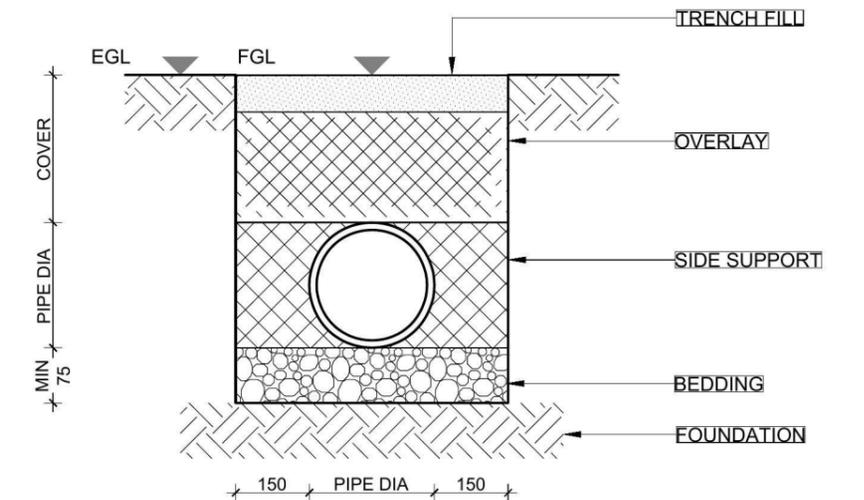
AGGLINE TRENCH DETAIL
scale 1:10



TYPICAL PIT PLAN
not to scale



TYPICAL PIT DETAIL
not to scale



STANDARD PIPE TRENCH DETAIL
scale 1:10

Rev	Description	By	Date
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Client:



Project:

Proposed Development at
9 WALSHAW STREET, PENRITH, NSW 2750

Title: PIT AND RAIN WATER TANK DETAIL SH5

Designed By: Chij Shrestha
MIEAust, CPEng, NER

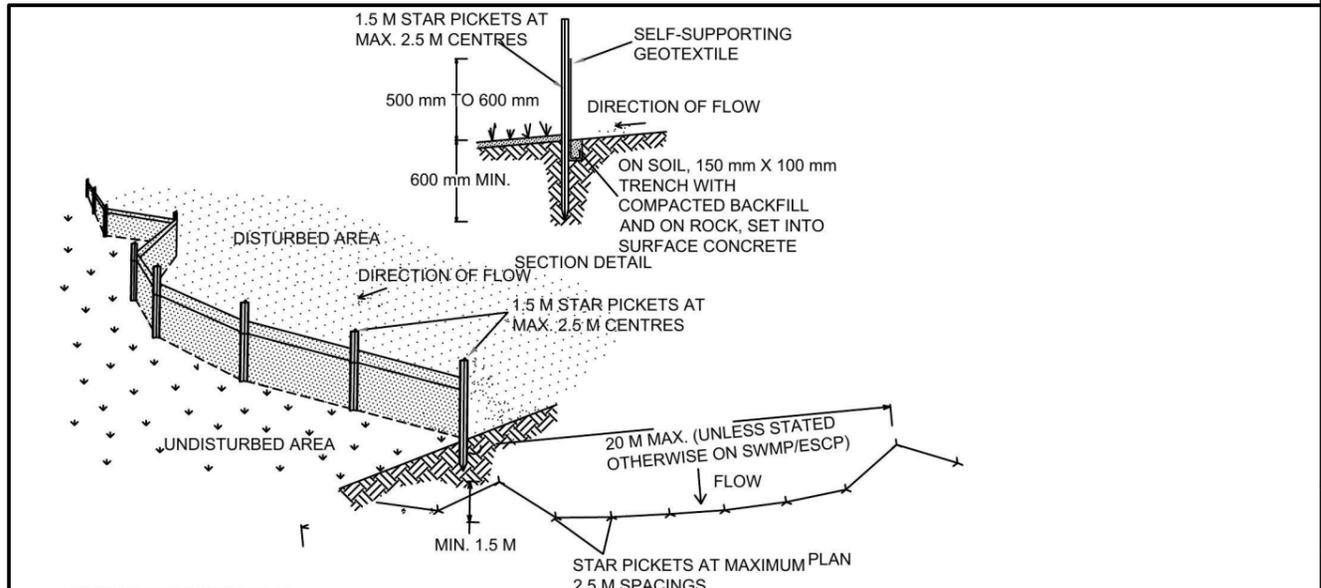
Reviewed By: C.L.A

Scale: as shown (A3)

Date: 15/02/2019

Issue: A

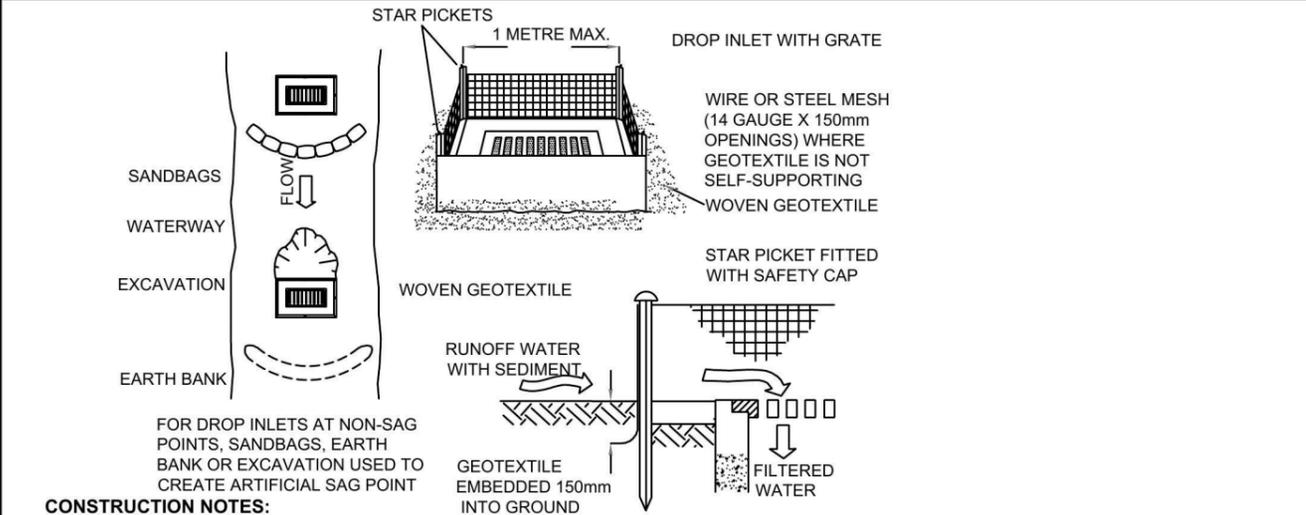
Job No: SW33_1902



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 STORMEVENT USUALLY THE 10 YEAR EVENT.
2. CUT A 150 MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
3. DRIVE 1.5 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
4. FIX SELF SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRES 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 THE SUPPORT POST WITH A 150 MM OPERLAP
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

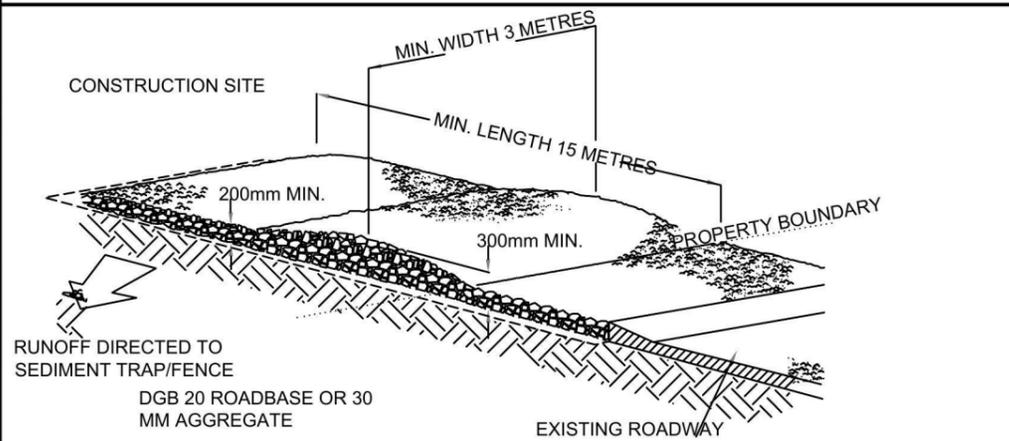
SEDIMENT FENCE SD 6-8



CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES
2. FOLLOW THE INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METER CENTRES
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATER TO BYPASS IT.

GEOTEXTILE INLET FILTER SD 6-12



GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE
2. COVER THE AREA WITH NEEDLE PUNCHED GEOTEXTILE
3. CONSTRUCT A 200 MM THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30 MM AGGREGATE
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE
5. 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 SD 6-14

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Rev	Description	By	Date

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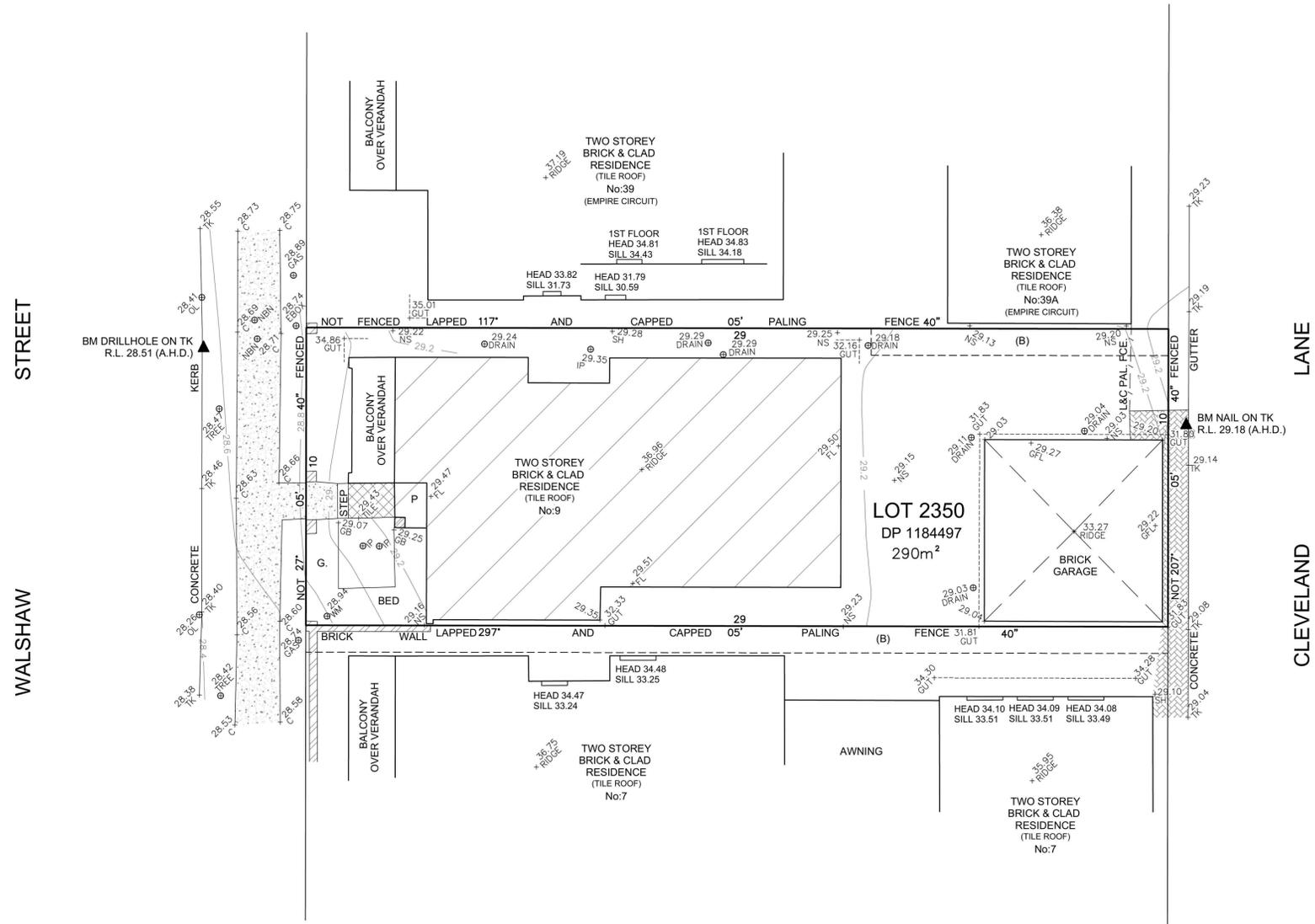
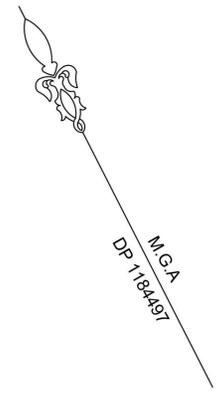
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Client: **ARTECH HOMES**
 BUILDING A BETTER LIFE
 Project: **Proposed Development at**
 9 WALSHAW STREET, PENRITH, NSW 2750

Title: **EROSION & SEDIMENT CONTROL PLAN SH6**
 Designed By: **Chij Shrestha**
 MIEAust, CPEng, NER
 Date: **15/02/2019**
 Issue: **A**
 Reviewed By: **C.L.A**
 Job No: **SW33_1902**
 Scale: **as shown (A3)**

LEGEND

- AHD AUSTRALIAN HEIGHT DATUM
- BM BENCH MARK
- C EDGE OF CONCRETE
- FL FLOOR LEVEL
- GFL GARAGE FLOOR LEVEL
- GUT TOP OF GUTTER
- NS NATURAL SURFACE
- RL REDUCED LEVEL
- SH SPOT HEIGHT
- TK TOP OF KERB
- WM WATER METER
- EBOX ELECTRICITY BOX
- IP INSPECTION POINT
- NBN NATIONAL BROADBAND NETWORK
- GB GARDEN BED
- OL STORMWATER OUTLET
- CONCRETA HARD AREA
- PAVED AREA
- TILED AREA
- APPROXIMATE GUTTER LINE
- APPROXIMATE RIDGE LINE



NOTE:

- THE TITLE BOUNDARY DIMENSIONS AND AREAS SHOWN HEREON ARE DETERMINED BY TITLE DEED ONLY AND ARE SUBJECT TO FINAL SURVEY
- ADJOINING BUILDINGS, RIDGES AND GUTTER POSITIONS ARE APPROXIMATE ONLY
- ONLY VISIBLE SERVICES WERE LOCATED AT TIME OF SURVEY IT IS RECOMMENDED THAT ALL RELEVANT AUTHORITIES BE NOTIFIED PRIOR TO ANY WORKS BEING COMMENCED ON SITE. WE STRONGLY SUGGEST THAT YOU DIAL 1100 BEFORE YOU DIG
- TREE SPREAD AND TRUNK DIAMETERS SHOWN IN THIS PLAN ARE INDICATIVE ONLY
- CONTOURS HAVE BEEN INTERPOLATED FROM SPOT HEIGHTS TAKEN AND ARE INDICATIVE ONLY
- DO NOT SCALE OF THIS PLAN. WHERE CLEARANCES ARE CRITICAL THEY SHOULD BE CONFIRMED BY A FURTHER BOUNDARY SURVEY
- COPYRIGHT OF THIS MATERIAL SHOWN HEREON AND IN THE ACCOMPANYING CAD FILES BELONGS TO NEW WAY SURVEYING PTY. LTD. NO ALTERATIONS ARE TO BE MADE TO THE DATA WITHOUT THE WRITTEN CONSENT OF NEW WAY SURVEYING PTY. LTD. IF THESE CONDITIONS HAVE BEEN BREACHED NEW WAY SURVEYING PTY. LTD. REMOVES ALL REPSONSIBILITIES
- THIS NOTE IS AN INTEGRAL PART OF THIS PLAN

(B) EASEMENT FOR ACCESS, MAINTENANCE AND OVERHANG 0.9 WIDE (DP1184497)



NEW WAY SURVEYING

LAND, ENGINEERING & CONSTRUCTION SURVEYORS

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 EMAIL: admin@newwaysurveying.com.au
 INTERNET: www.newwaysurveying.com.au



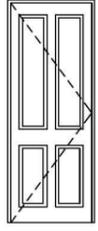
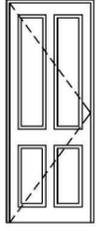
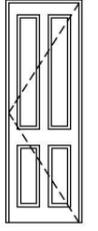
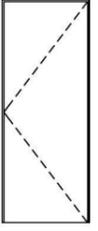
DATUM	A.H.D.
ORIGIN OF LEVELS AND SOURCE	SSM 186014 LOCALITY SKETCH
CONTOUR INTERVAL	0.2m

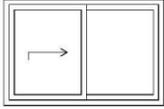
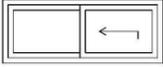
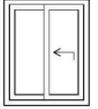
SCALE	1:100 (ON A1)
SUBURB	PENRITH
L.G.A.	PENRITH
SHEET NO.	1 OF 1 SHEETS

DRAWN	TS
SURVEYED	DL
CHECKED	TS
DATE:	08/10/2018

CLIENT	ARTECH HOMES
DESCRIPTION	DETAIL AND CONTOUR PLAN OVER LOT 2350 IN DP 1184497 LOCATED AT No:9 WALSHAW STREET, PENRITH
ISSUE NO:	A
SURVEYORS REFERENCE	18513



DOOR SCHEDULE				
ID	D1	D3	D4	D5
W x H	820x2,100	820x2,100	720x2,100	820x2,100
View from Opening Side				
Quantity	1	1	1	1

WINDOW SCHEDULE			
ID	W1	W2	W3
W x H	1,510x1,000	1,510x600	800x1,000
HEAD HEIGHT	2,143	2,143	2,143
View from Opening Side			
Quantity	3	1	1



ARTECH HOMES
 ABN 90 601 427 141
 Address: PO Box 7264 Mount Amlin, NSW 2567.
 P +61 2 4651 1245 | B Lic 276499C | E admin@artechhomes.com.au |
 W www.artechhomes.com.au

General Notes
 The Builder shall check all dimensions and levels on site prior to construction.
 Notify any errors, discrepancies or omissions to the architect.
 Drawings shall not be used for construction purposes until issued for construction.
 Do not scale drawings.
 All boundaries and contours subject to survey

SUBJECT TO RECEIPT OF REGISTERED D.P., CONTOUR SURVEY, 888 INSTRUMENT,
 SECTION 149 CERTIFICATE & SEWER DIAGRAM.



CLIENT DETAILS : A.Singh & P.Ahluwalia

DISCLAIMER:
 DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE
 ACCURATE HOWEVER FINAL DIMENSIONS ARE TO BE
 MARKED BY SUPERVISOR ONGITE.
 ALL DIMENSIONS ARE IN MILLIMETRES
 DO NOT SCALE - USE WRITTEN DIMENSIONS
 ALL DIMENSIONS ARE TO STRUCTURAL FRAMES ONLY
 EXCLUDING FINISHED SURFACES.



SITE ADDRESS:
LOT 2350 / DP 1184497
9 WALSHAW
STREET, PENRITH
NSW.

DRAWING TITLE :
DOOR & WINDOW SCHEDULE

REVISION NO.
REV 01
 DRAWING NO.
9

DRAWN BY: BK
 CHECKED BY: SK
 PROJECT NO.
19 02 164
 Plot Date: 18/02/2019