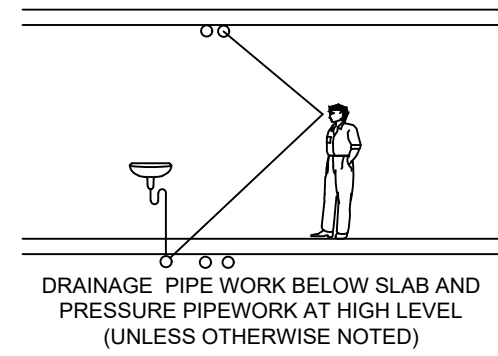


BARROWS HILLSIDE
80 HILLSIDE PARADE
ELIZABETH BEACH
LOT:4246 DP:1285824
LGA - MID COAST COUNCIL
STORMWATER DRAINAGE SERVICES

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LEGEND	
	EXISTING SERVICE
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	WARM WATER
	GAS
	NON POTABLE COLD WATER
	SEWER
	STORMWATER
	VENT
	TRADE WASTE
	STORMWATER HARVESTING DRAINAGE (TO - TANK)
	SUBSOIL (WITH GEO-SOCK)
	SEDIMENTATION FENCE
	MECHANICAL SERVICES WATER SUPPLY
	CONDENSATE
	DRAINAGE CELL
	FLUE
	GREASE
	GRATED DRAIN
	SUCTION
	RISER
	DROPPER
	TEE RISER / DROPPER
	INSPECTION OPENING
	CAP END
	REDUCER
	BEAM PENETRATION
	TYPE OF SERVICE
	SIZE OF SERVICE
	DIRECTION OF SERVICE
	DETAIL NUMBER
	DRAWING REFERENCE
	CONTINUATION
	URINAL
	WATER CLOSET
	BASIN
	CLEANERS SINK
	SEWER MANHOLE
	STORMWATER MANHOLE
	SEWER INSPECTION PIT
	STORMWATER INSPECTION PIT
	STORMWATER GATIC PIT
	STORMWATER CLEARING PIT

	PIPE DIAMETER
	CLEAR OUT
	FLOOR WASTE
	HOSE TAP
	STOP VALVE
	CHECK VALVE
	STOP VALVE IN PATH BOX
	BALANCING VALVE
	BALL VALVE
	SOLENOID VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	OVERFLOW GULLY
	BOUNDARY TRAP
	INDUCT PIPE MICA FLAP
	BOUNDARY TRAP
	FLOW DIRECTION
	FIRE HOSE REEL
	FIRE HYDRANT
	DOUBLE HEADED PILLAR HYDRANT
	FIRE HYDRANT BOOSTER VALVE
	HOT WATER UNIT
	METER
	TUNDISH
	PUMP
	TEMPERING VALVE
	THERMOSTATIC MIXING VALVE
	BASKET TRAP FLOOR WASTE
	RAINWATER OUTLET
	PLANTER BOX OUTLET
	SPOON DRAIN OUTLET
	REDUCED PRESSURE ZONE DEVICE
	OVERLAND FLOW PATH
	NODE POINT FOR CALCULATIONS

AAV	AIR ADMITTANCE VALVE
B	BASIN
BSK	BAR SINK
BTH	BATH
BT	BOUNDARY TRAP
BTWF	BASKET TRAP FLOOR WASTE
BWU	BOILING WATER UNIT
CO	CLEAR OUT
CS	CLEANERS SINK
CV	CONTROL VALVE
CW	COLD WATER
CWU	CHILLED WATER UNIT
DG	DISCO GULLY
DP	DOWN PIPE
DTU	DRAINAGE TURN UP
DW	DISH WASHER
E	EXISTING
EJ	EXPANSION JOINT
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FS	FLUSHETTE SERVICE
FW	FLOOR WASTE
G	GAS
GAPO	GREASE ARRESTOR PUMP OUT
GO	GUTTER OUTLET
GR	GAS RISER
GVP	GREASE VENT PIPE
HL	HIGH LEVEL
HT	HOSE TAP
HW	HOT WATER
HWU	HOT WATER UNIT
IL	INVERT LEVEL
IM	ICE MACHINE
IW	ICE WELL

STORMWATER NOTES

- ORIGIN OF LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM (AHD) AS OBTAINED FROM SURVEY INFORMATION PROVIDED. ALL LEVELS TO BE CONFIRMED ON SITE.
- ALL LEVELS TO BE CONFIRMED WITH ARCHITECTURAL DRAWINGS, SURVEY DRAWING AND SITE LAYOUT.
- CARE TO BE TAKEN WITH LEVELS ON STORMWATER LINES, AS GRADES SHOWN ARE NOT TO BE REDUCED. LEVELS ARE NOT TO BE ALTERED WITHOUT THE APPROVAL OF THE DESIGNER.
- LOCATION OF THE EXISTING SERVICES IS APPROXIMATE ONLY.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EXISTING CONDITION BY THE CONTRACTOR AT COMPLETION OF THE WORK.
- SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY COUNCIL SHALL BE CARRIED OUT FOR THE FULL DURATION OF THE WORKS BY THE CONTRACTOR.
- ALL BATTERS AND DISTURBED AREAS SHALL BE STABILISED OR RE-VEGETATED BY GRASS SEEDING WITHIN 7 DAYS OF BECOMING FREE OF FUTURE WORKS.
- ALL PIPES TO BE UPVC (DWV GRADE) WITH A MINIMUM OF 1% SLOPE UNLESS NOTED OTHERWISE.
- ALL STORMWATER PITS TO BE PRECAST CONCRETE WITH MEDIUM DUTY GRATED COVERS, GRATE DRAIN TO BE HEAVY DUTY CAST IN SITU.
- ALL STORMWATER DRAINAGE WORK SHALL COMPLY WITH AS/NZS3500.3 AND LOCAL COUNCIL REQUIREMENTS.
- PIPES 300mm OR MORE IN DIAMETER SHALL BE REINFORCED CONCRETE PIPES TO AS4058, CLASS 2, WITH SPIGOT AND SOCKET AND RUBBER RING JOINTS.
- BED THE PIPING ON A CONTINUOUS LAYER OF BEDDING MATERIAL AT LEAST 75mm THICK AFTER COMPACTION. GRADE THE UNDERLAY EVENLY TO THE GRADIENT OF THE PIPE LINE. FORM CHASES TO PREVENT FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.
- PROVIDE EVEN FALLS TO OUTLETS WITH NO PART OF THE PIPE LINE HAVING A FALL OF LESS THAN 1 IN 100 UNLESS NOTED OTHERWISE.
- TRENCH BACK FILL IN PAVED AREAS SHALL BE SAND OR OTHER APPROVED GRANULAR MATERIAL COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY IN THE TOP 300mm AND 98% SMD IN LOWER AREAS.
- TRENCH BACK FILL IN UNPAVED AREAS SHALL BE ORDINARY FILL COMPACTED TO 98% SMD.
- PROVIDE ALL NECESSARY SITE DISCHARGE CONNECTIONS AS PER PRE DEVELOPMENT CONDITIONS.
- GIVE SUFFICIENT NOTICE SO THAT INSPECTIONS MAY BE MADE BY THE OWNER'S REPRESENTATIVE AND/OR RELEVANT AUTHORITIES AFTER COMPLETION OF THE PIPE WORK AND PRIOR TO PLACING THE PIPE OVERLAY.

GENERAL

- THESE DOCUMENTS DETAIL THE DIAGRAMMATIC DESIGN INTENT OF HYDRAULIC SERVICES. THE CONTRACTOR SHALL SET OUT ALL WORK TO SUIT AS REQUIRED FOR SITE CONDITIONS.
- SERVICES POSITIONS ARE INDICATIVE AND ALLOWANCES TO BE MADE ON SITE AS REQUIRED.
- ALL LEVELS AND SET OUT INFORMATION TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS. THESE DOCUMENTS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL INFORMATION.
- ALL PIPE WORK TO BE INSTALLED AS PER AS3500 AG601 AND LOCAL AUTHORITY REQUIREMENTS.
- ALLOW TO SUPPLY AND INSTALL MATERIAL EQUAL TO:
 - FIRE HYDRANT SERVICE (ALL SIZES) IN GROUND TYPE B COPPER TUBE AND FITTINGS ABOVE GROUND ROLL GROOVED GALVANISED PIPE OR TYPE B COPPER TUBE AS PER AS2419.
 - POTABLE WATER SUPPLY (ALL SIZES) TYPE B COPPER TUBE AND FITTINGS.
 - HOT AND WARM WATER (ALL SIZES) TYPE B COPPER TUBE WITH KEMLAG INSULATION.
 - DRAINAGE PIPE WORK TO EQUAL uPVC DWV PIPE AND FITTINGS ALL SLAB PENETRATIONS SHALL HAVE APPROVED FIRE STOPPING COLLARS AS REQUIRED TO MAINTAIN BUILDING FIRE RATION.
- PROVIDE ALL NECESSARY CONNECTIONS AS REQUIRED, AND ALLOW TO MAKE APPLICATIONS TO AUTHORITIES AND PAY ALL ASSOCIATED FEES.
- GIVE SUFFICIENT NOTICE SO THAT INSPECTIONS MAY BE MADE BY THE OWNER'S REPRESENTATIVE AND/OR RELEVANT AUTHORITIES AFTER COMPLETION OF THE PIPE WORK AND PRIOR TO PLACING THE PIPE OVERLAY.

SPECIFICATION NOTES

- AUTHORITIES AND STANDARD: THE WHOLE OF THE HYDRAULIC SERVICES INSTALLATION SHALL BE CARRIED OUT UNDER THE DIRECT SUPERVISION OF A FULLY LICENSED PLUMBER AND DRAINER IN STRICT ACCORDANCE WITH THE N.S.W. CODES AND TO THE SATISFACTION OF SYDNEY WATER CORPORATION. IN ACCORDANCE WITH HYDRAULICS DESIGN DRAWINGS AND SPECIFICATION AS ISSUED.
- FEES AND CHARGES: THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS, PAY ALL FEES, OBTAIN AND ISSUE TO THE SUPERINTENDENT ALL REQUIRED CERTIFICATES INDICATING THAT THE WORKS IN THEIR ENTIRETY COMPLY WITH THE CURRENT REGULATIONS AND REQUIREMENTS OF ALL RELEVANT AUTHORITIES.
- SITE VISIT AND FAMILIARISATION: THE CONTRACTOR SHALL EXAMINE THE SITE AND REFER TO CURRENT CONTRACT DRAWINGS SO AS TO UNDERSTAND AND TO HAVE SATISFIED HIMSELF AS TO THE VISIBLE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE.
- MATERIALS, SUPPLY AND FIX ALL MATERIALS REQUIRED TO COMPLETE THE WORKS. ALL MATERIALS SHALL BE FIRST QUALITY AND ANY INFERIOR MATERIALS SHALL BE REJECTED. ALL COSTS ASSOCIATED WITH THE REPLACEMENT OF REJECTED MATERIALS SHALL BE BORNE BY THE CONTRACTOR. ALL MATERIALS SHALL CONFORM WITH THE LATEST AUSTRALIAN STANDARD, SPECIFICATION, CODE OR INTERIM CODE. IF NO AUSTRALIAN STANDARD EXISTS THEY SHALL CONFORM TO THE LATEST BRITISH STANDARD OR THE REQUIREMENTS IF THE AMERICAN SOCIETY FOR THE TESTING AND MATERIALS IN THAT ORDER. MAKE APPLICATIONS TO AND PAY TO THE RELEVANT AUTHORITIES ALL APPLICABLE FEES AND CHARGES.
- SET OUT: ALL PIPE WORK SHALL BE CONCEALED (WHEREVER POSSIBLE) IN CEILING SPACES AND WALLS OR CHASED IN WALLS. THE PLUMBER SHALL BE RESPONSIBLE FOR SETTING OUT ALL PIPE RUNS BEFORE THE POURING OF CONCRETE, COVERING UP AND PROVIDING ALL SLEEVES, FIRE COLLARS WHICH MAY BE NECESSARY.
- PENETRATIONS: FLOORS AND BEAMS SHALL BE CORED, SLEEVED IN A METHOD APPROVED BY THE STRUCTURAL ENGINEER, BUILDING MANAGEMENT. SEAL ALL PENETRATIONS WITH FIRE RATED MATERIAL AND SEAL WITH AN APPROVED EPOXY SEALANT AS REQUIRED TO MAINTAIN THE REQUIRED FRL. PROVIDE FIRE STOP COLLARS AS REQUIRED. ALL CORE HOLES AND PENETRATIONS SHALL BE MADE GOOD AND WATER TIGHT AS REQUIRED. ALL FINAL CORE HOLE LOCATIONS SHALL BE CO-ORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER, BUILDING MANAGEMENT.
- HOT AND COLD WATER SERVICES: ALL PIPE WORK SHALL BE COPPER TYPE B WITH COPPER AND/OR BRASS FITTINGS. PIPE WORK BUILT INTO WALLS SHALL BE SECURELY FIXED AND LAGGED WITH "KEMLAG" INSULATION. ALL PIPE WORK SHALL BE FREE OF WATER HAMMER. ALL HOT, WARM WATER PIPE WORK SHALL BE SECURELY FIXED AND LAGGED WITH "KEMLAG" INSULATION. COPPER PIPES AND FITTINGS SHALL:
 - BE APPROVED BY RELEVANT AUTHORITIES.
 - CONFIRM WITH AUSTRALIAN STANDARDS
 - BE TYPE B FOR HOT, WARM AND COLD WATER AND GAS SUPPLY
- BE JOINED WITH SILVER BRAZE CONTAINING NOT LESS THEN 15% SILVER.
- FITTINGS SHALL HAVE A MINIMUM WALL THICKNESS NOT LESS THAN THE TUBE THICKNESS THEY SURVEY.
- EXCAVATION: EXCAVATION LINES AND LEVELS SHALL BE AS REQUIRED FOR SITE CONDITIONS ALL TRENCHING SHALL BE STRAIGHT AND GRADED AS REQUIRED FOR SERVICES INSTALLATION. EXCAVATE TRENCHES IN SECTIONS OF SUITABLE LENGTH, LAY AND BED SERVICE PIPE WORK AND BACK FILL TRENCH SECTION, WITH MINIMUM DELAY AND IF POSSIBLE ON THE SAME WORKING DAY. UNLESS OTHERWISE SPECIFIED OR PERMITTED.
- IDENTIFICATION: SERVICES WARNING, IDENTIFICATION TAPE TO BE INSTALLED ABOVE EACH INDIVIDUAL SERVICE PIPE INSTALLED WITHIN TRENCH (FULL LENGTH OF INSTALLATION)
- TESTING: TEST ALL SERVICES DURING INSTALLATION AND PRIOR TO CONCEALING. A MINIMUM 24 HOUR TEST PERIOD WITHOUT EVIDENCE OF LEAKS ANY LEAKS SHALL BE RECTIFIED AND A RE-TEST AS PER TEST REQUIREMENTS. FLOW TESTING SHALL BE CARRIED OUT AT COMPLETION OF WORKS TO PROVIDE ACTUATE FLOW CAPACITY AVAILABLE. CERTIFICATION INFORMATION TO BE FORWARDED TO SUPERINTENDENT AND/OR REPRESENTATIVE.
- CERTIFICATION: A PLUMBERS CERTIFICATE SHALL BE PROVIDED TO SYDNEY WATER CO-OPERATION AND FORWARDED TO THE SUPERINTENDENT WITH ELECTRONIC FORMAT, "AS INSTALLED" DRAWINGS. OBTAIN CERTIFICATES FROM AUTHORITIES INDICATING SATISFACTORY COMPLETION OF SERVICES AND HAND OVER TO ARCHITECT BEFORE APPLICATION FOR FINAL PAYMENT AND CERTIFICATES OF PRACTICAL COMPLETION.
- WARRANTY AND MAINTENANCE PERIOD: PROVIDE 12 MONTHS WARRANTY AND MAINTENANCE PERIOD FOR ALL WORK COVERED BY THIS CONTRACT. RETAIN ALL MANUFACTURER WARRANTIES AND GUARANTEES AND HAND OVER TO ARCHITECT WITH MAINTENANCE MANUALS WHEN INSTALLATION IS COMPLETE.
- A SET OF WORK AS EXECUTED DRAWINGS SHALL BE KEPT ON SITE AND PROGRESSIVELY MARKED UP BY THE CONTRACTOR AS THE WORK PROCEEDS TO RECORD THE LOCATIONS, INVERTS, FINAL LEVELS AND DETAILS OF ALL INSTALLED SERVICES, EQUIPMENT AND VALVES, THESE SHALL BE MADE AVAILABLE ON REASONABLE NOTICE FROM THE SUPERINTENDENT.
- HYDRAULIC SERVICES WORK AS EXECUTED CAD (AUTO CAD R2002) DRAFTED DRAWINGS AND MAINTENANCE MANUALS TO BE PROVIDED PRIOR TO COMPLETION.
- CHECK ALL DIMENSIONS ON SITE PRIOR TO ANY PURCHASE OF EQUIPMENT OR INSTALLATION OF ANY PIPE WORK AND ACCESSORIES. NO CLAIMS WILL BE CONSIDERED REGARDING ITEMS WHICH CANNOT BE INSTALLED DUE TO ERROR RESULTING FROM FAILURE TO CONFIRM DESIGN INTENT ON SITE.
- WALL CHASING: WRITTEN CONFIRMATION SHALL BE OBTAINED FROM STRUCTURAL ENGINEER PRIOR TO ANY CHASING OF CONCRETE AND/OR BRICK WALLS AS REQUIRED FOR SERVICES INSTALLATION.
- ALL SANITARY DRAINAGE PIPE WORK ABOVE AND/OR ADJACENT TO LIVING, SLEEPING AREAS SHALL BE INSULATED WITH ACOUSTIC INSULATION EQUAL TO SOUNDGUARD SOUNDLAG 452SL ACOUSTIC PIPE WRAP INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS DISTRIBUTED BY PYROTEK 9631 1333.

DRAWING LIST

H0-00	COVER SHEET / SPECIFICATION NOTES
H1-01	DRAINAGE SERVICES SITE PLAN / GARAGE LEVEL AND GROUND FLOOR LEVEL
H1-02	DRAINAGE SERVICES FIRST FLOOR LEVEL AND ROOF LEVEL
H1-03	DETAIL SHEET
H2-01	SEDIMENTATION CONTROL PLAN

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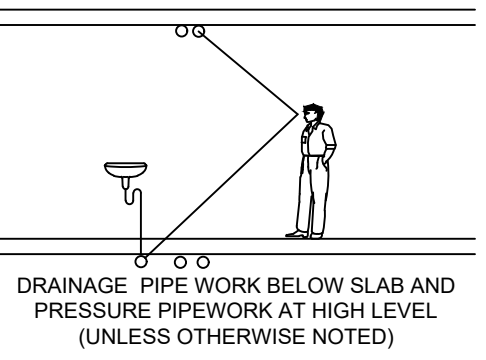
MOORE DESIGN

BARROWS HILLSIDE

HYDRAULIC SERVICES
STORMWATER DRAINAGE
COVER SHEET / LEGEND

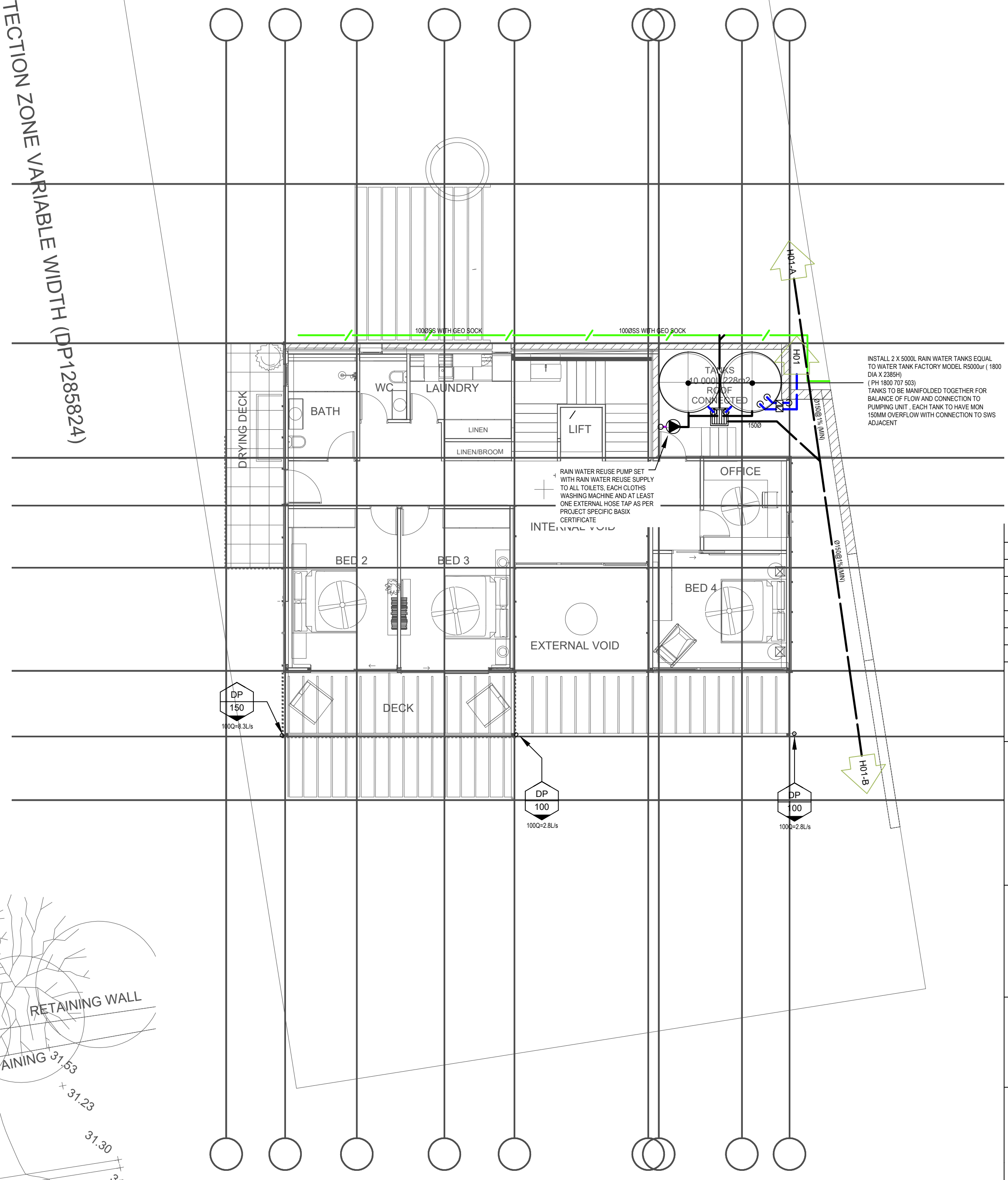
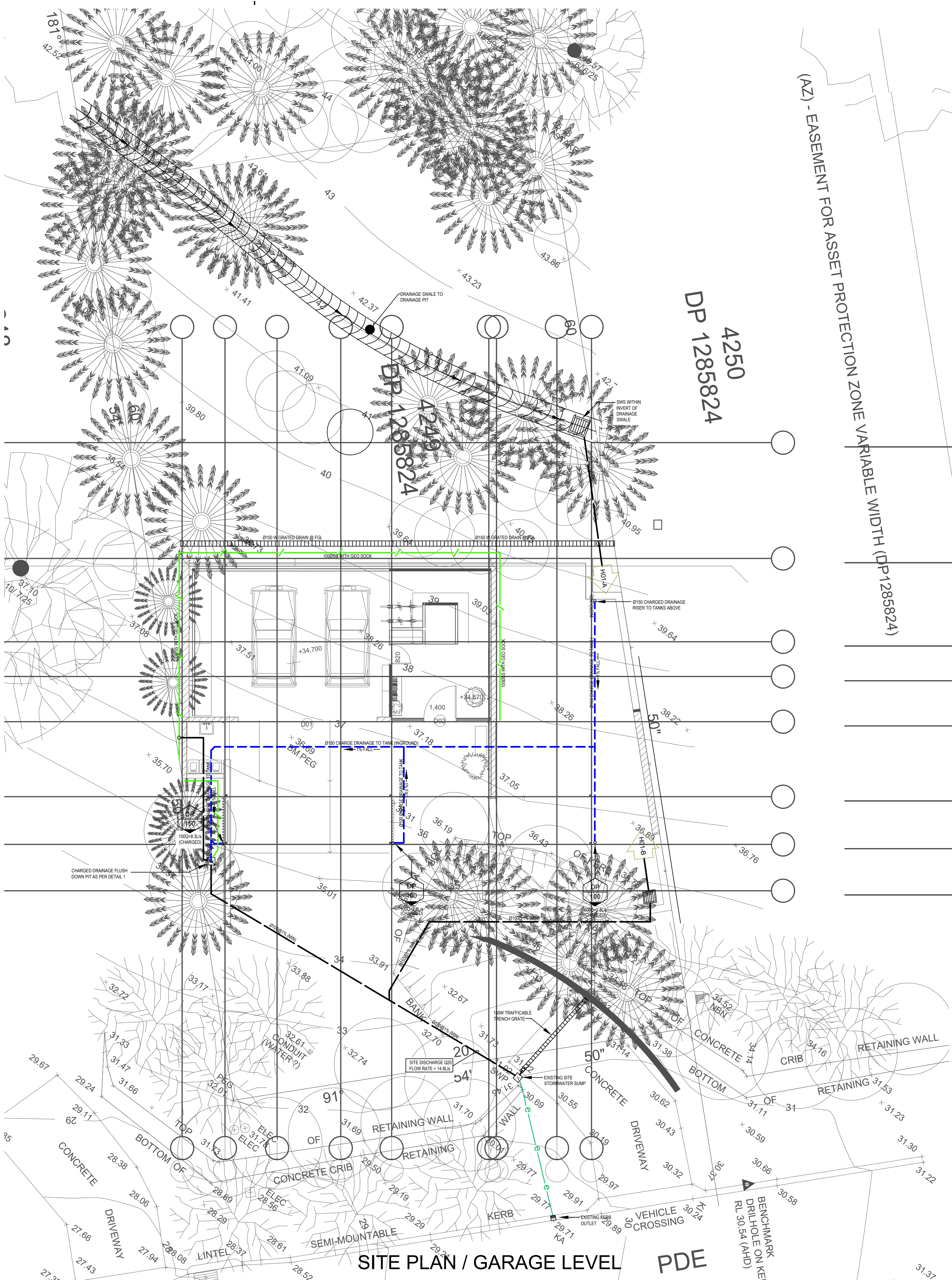
Project No.	Drawing No.	Revision
25058	H0-00	A
Scale	N.T.S	Date 15/05/25
Drawn	S.H	Sheet 1 of 5 A1
Designed	S.H. BPB C3/C4/C14/C15/C16 Accredited Certifier #BPB3466	

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(AZ) - EASEMENT FOR ASSET PROTECTION ZONE VARIABLE WIDTH (DP1285824)

4250
DP 1285824



No.	Date	Details
A	27/10/25	DA SUBMISSION
P1	22/10/25	PRELIMINARY ISSUE

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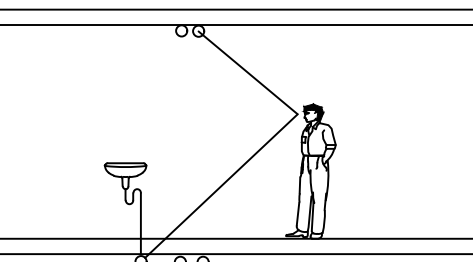
BARROWS HILLSIDE

Drawing

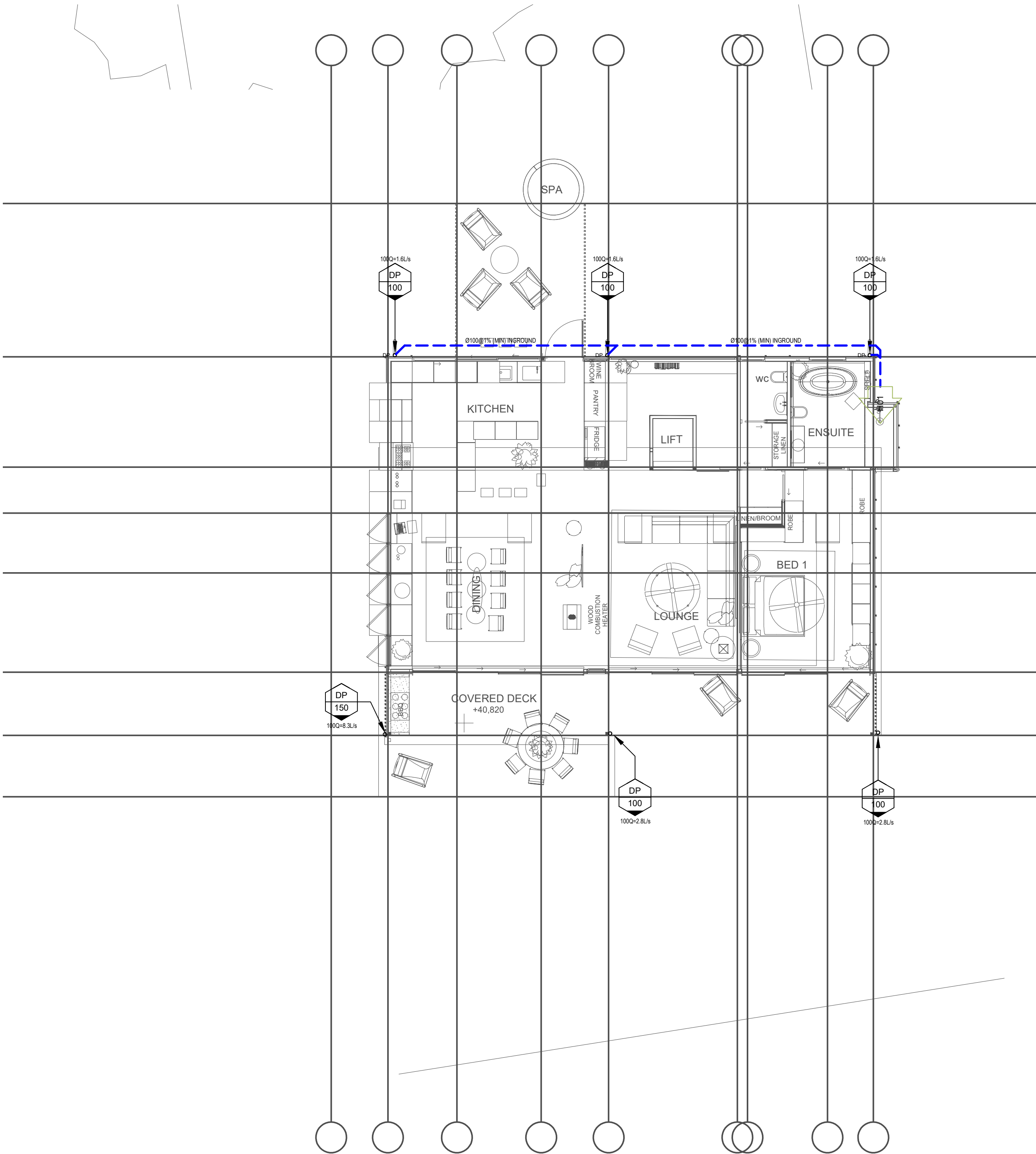
**HYDRAULIC SERVICES
STORMWATER DRAINAGE
SITE PLAN AND
GARAGE LEVEL**

Project No.	Drawing No.	Revision
25058	H1-01	A
Scale 1:100	Date 17/10/25	
Drawn S.H.	Sheet 2 of 5	A1
Designed S.H. BPB C3/C4/C14/C15/C16 Accredited Certifier #BPB3466		

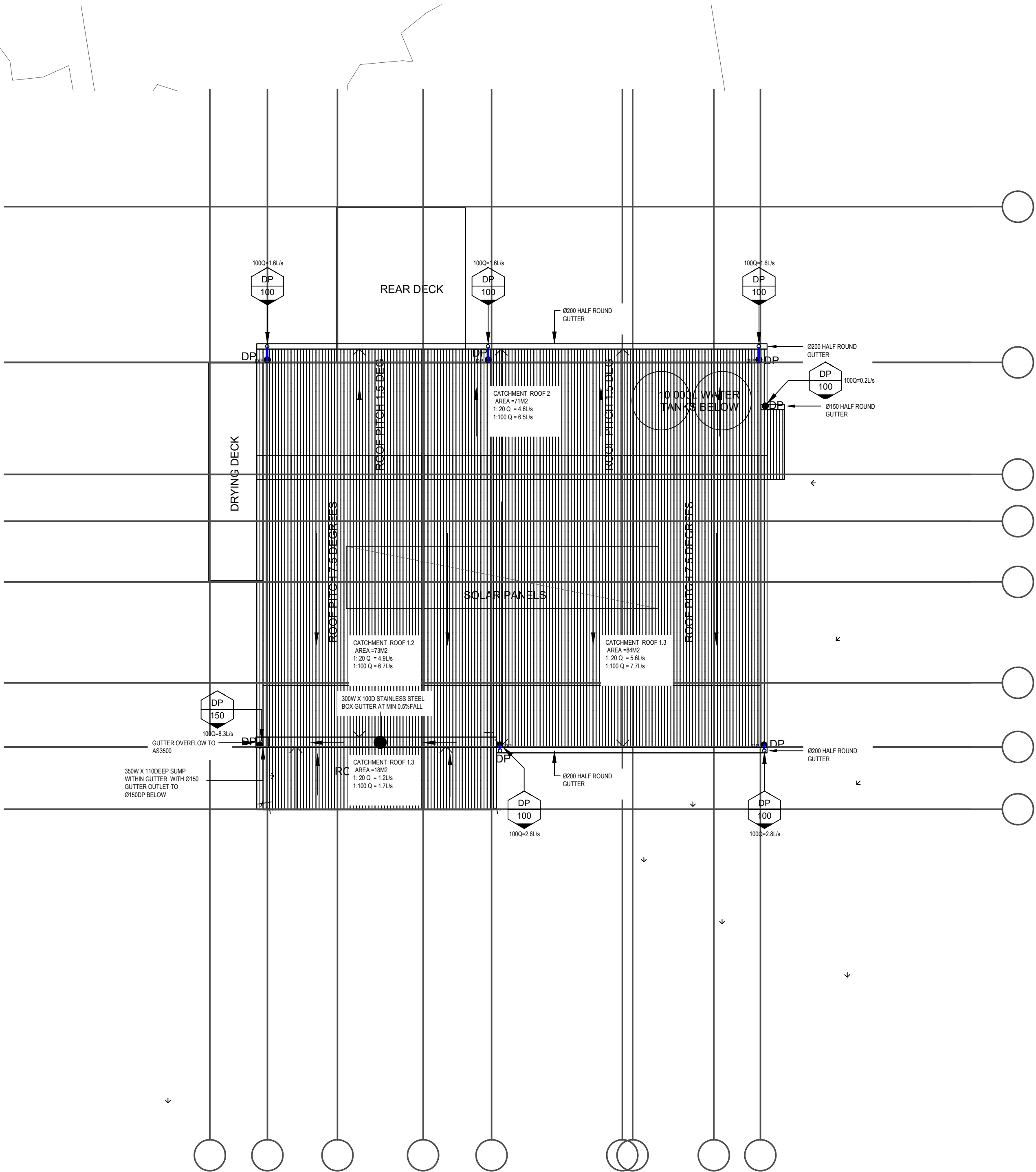
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DRAINAGE PIPE WORK BELOW SLAB AND PRESSURE PIPEWORK AT HIGH LEVEL (UNLESS OTHERWISE NOTED)



FIRST FLOOR



ROOF

A	27/10/25	DA SUBMISSION
P1	22/10/25	PRELIMINARY ISSUE
No.	Date	Details

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MOORE DESIGN

Project

BARROWS HILLSIDE

Drawing

**HYDRAULIC SERVICES
STORMWATER DRAINAGE
GROUND FLOOR AND
FIRST FLOOR PLAN**

Project No.	Drawing No.	Revision
25058	H1-02	A
Scale 1:100	Date 17/10/25	
Drawn S.H	Sheet 3 of 5	A1
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DRAINAGE PIPE WORK BELOW SLAB AND
PRESSURE PIPEWORK AT HIGH LEVEL
(UNLESS OTHERWISE NOTED)

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BARROWS HILLSIDE

HYDRAULIC SERVICES
STORMWATER DRAINAGE
DETAIL SHEET

Project No.	Drawing No.	Revision
25058	H1-03	A
Scale 1:100	Date 17/10/25	
Drawn S.H.	Sheet 4 of 5	A1
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