

ALTERATIONS AND ADDITIONS

at: 60 HUDSON PARADE, CLAREVILLE

for: OLIVER HARTLEY

Architect: BENNETT MURADA ARCHITECTS

Prepared By:



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DRAWING SCHEDULE:

- D01 D STORMWATER DRAINAGE GENERAL NOTES
- D02 D SITE STORMWATER DRAINAGE PLAN
- D03 D LOWER GROUND FLOOR STORMWATER DRAINAGE PLAN
- D04 D GROUND FLOOR STORMWATER DRAINAGE PLAN
- D05 D FIRST FLOOR STORMWATER DRAINAGE PLAN
- D06 D ROOF STORMWATER DRAINAGE PLAN
- D10 D STORMWATER DRAINAGE DETAILS SHEET 1
- D30 D SEDIMENT AND EROSION CONTROL PLAN

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2204111

REV. D - 14.06.2024

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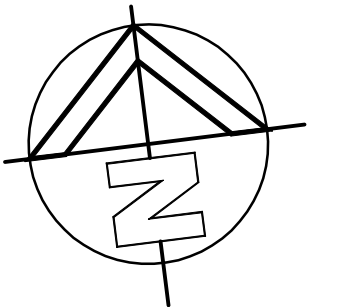
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 DIRECTION OF SURFACE RUNOFF

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY.
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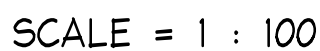
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06.10.2022		C	REVISED AREA CALCULATIONS	LB	-														
26.09.2022		B	REVISED TO SUIT NEW ARCH. PLANS	NB	-														
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Date:	Issue:	Description:		By:	Review:		Client:	OLIVER HARTLEY		Drawing Title:	SITE STORMWATER DRAINAGE PLAN		Job No:	2204111		Drawing No:	D02	Issue:	D

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PIPEWORK SHOWN INDICATIVE ONLY, TO
BE COORDINATED WITH ARBORIST PRIOR
TO CONSTRUCTION

CARE SHOULD BE TAKEN WHEN UNDERTAKING WORKS IN THE VICINITY OF SELECTED TREES NOT TO DISTURB THE TREE ROOT SYSTEM. HAND DIGGING OF TRENCHES ETC MAY BE NECESSARY. REFER ARBORISTS REPORT.



	NEW SURFACE DRAINAGE STORMWATER PIPE
	NEW SUBSOIL DRAINAGE STORMWATER PIPE
	STORMWATER PIPE FLOW DIRECTION
	STORMWATER PIT
	GD2 - STORMTECH 100mm THRESHOLD GRATED DRAIN

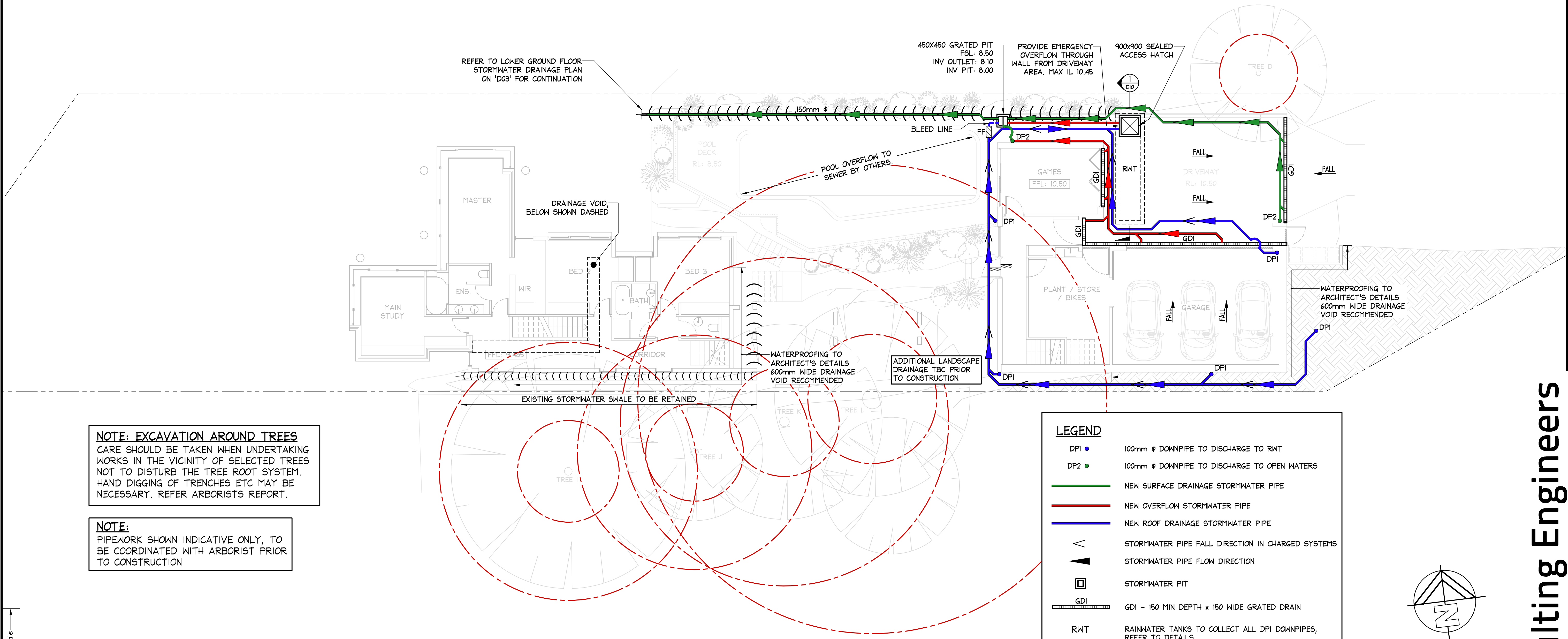
NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY.
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14.06.2024 D ISSUED FOR SECTION 4.55 NB SR					Date: 14 Jun '24 Michael Wachjo  B.E.(Civil), MIEAust. (Director, NB Consulting Engineers)		Sydney: Ph: (02) 9984 7000 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 Gold Coast: Ph: (07) 5631 4744 Suite 1, 30B Griffith Street, Coolangatta QLD 4225 E : nb@nbconsulting.com.au W : www.nbconsulting.com.au		Client: OLIVER HARTLEY		Drawing Title: STORMWATER DRAINAGE PLAN		Job No: 2204111	Drawing No: D03	Issue: D
06.10.2022 C REVISED AREA CALCULATIONS LB -															
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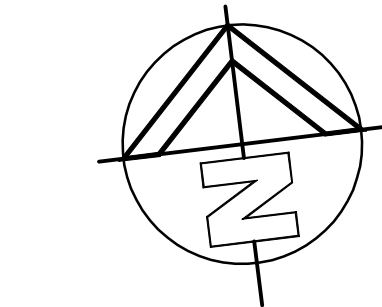
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GROUND FLOOR STORMWATER DRAINAGE PLAN

SCALE = 1 : 100



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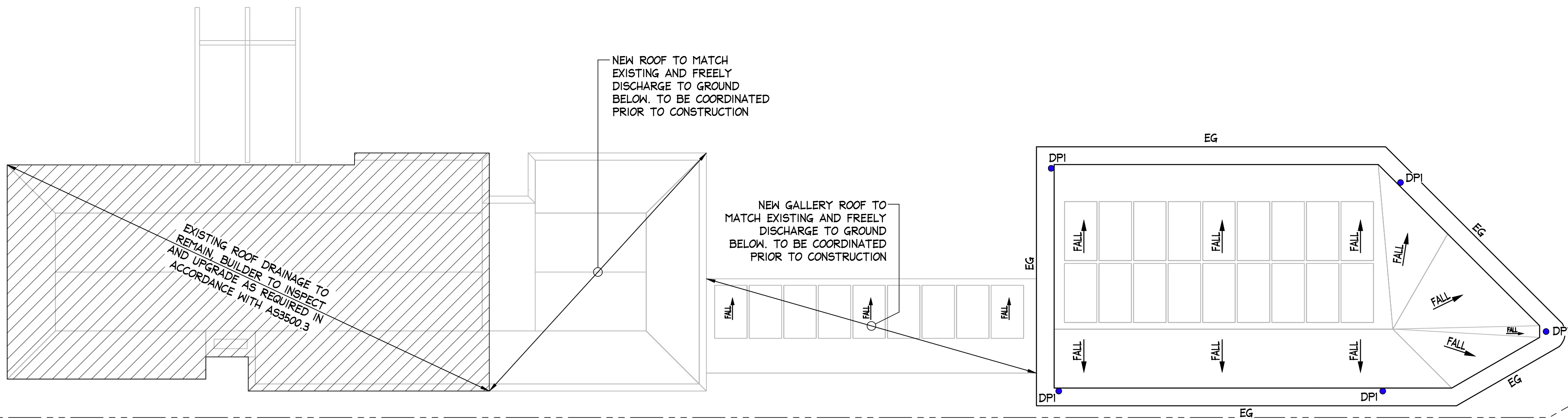


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ROOF STORMWATER DRAINAGE PLAN

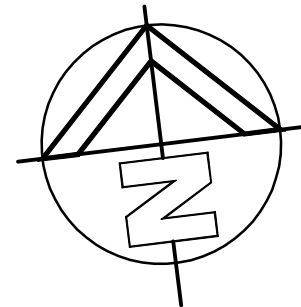
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Scale check - 100mm when printed to scale

LEGEND

- DPI ● 100mm ϕ DOWNPIPE TO DISCHARGE TO RWT
- EG CUSTOM EAVES GUTTER, ENSURE MIN. 9,500mm² CROSS SECTIONAL AREA. INSTALLED IN ACCORDANCE WITH AS3500.3

NOTE: ALL DRAINAGE LINE LOCATIONS ARE INDICATIVE ONLY. LOCATION MAY VARY DUE TO CONSTRAINTS.

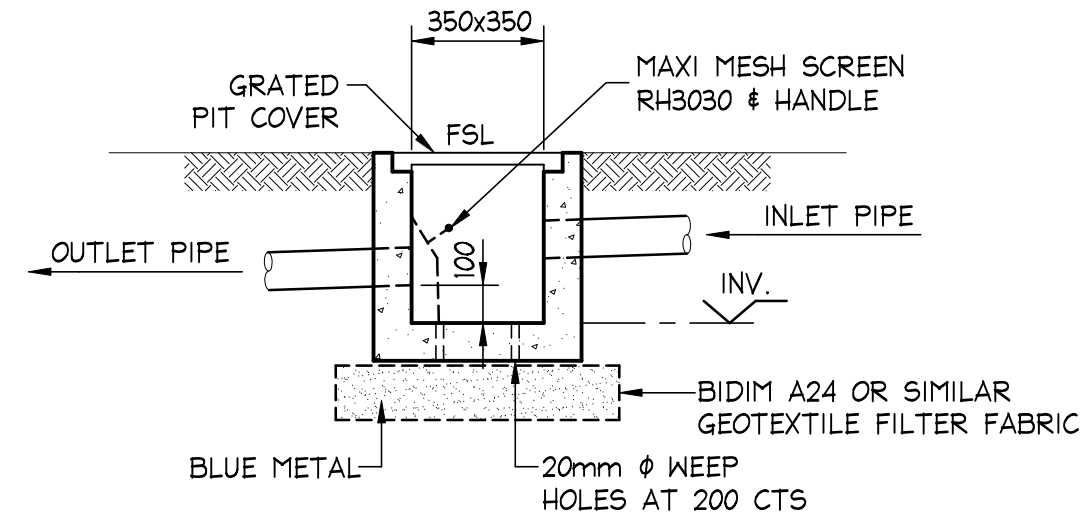


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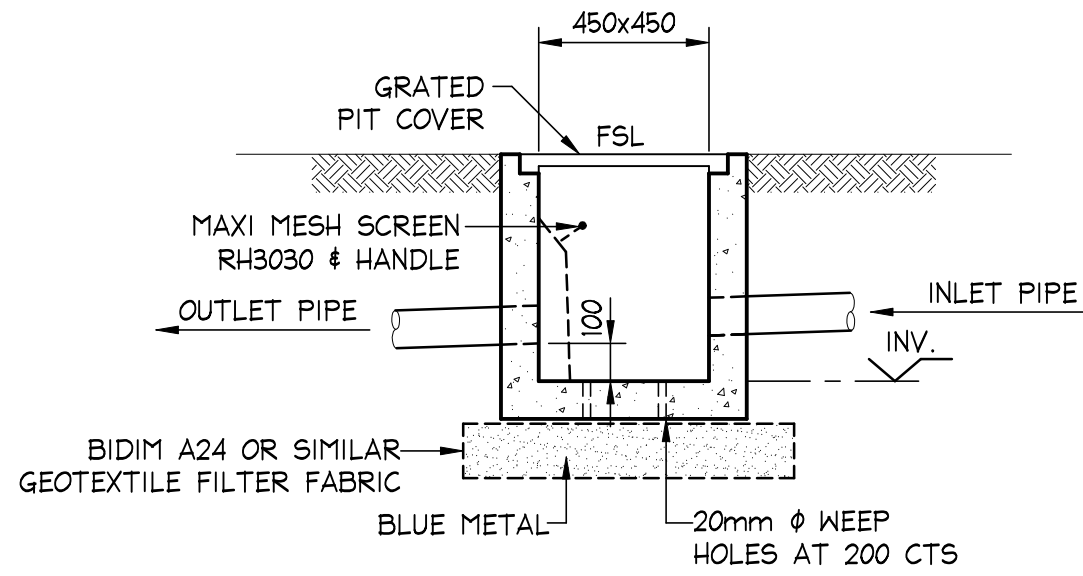
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PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

350x350 PIT DETAIL

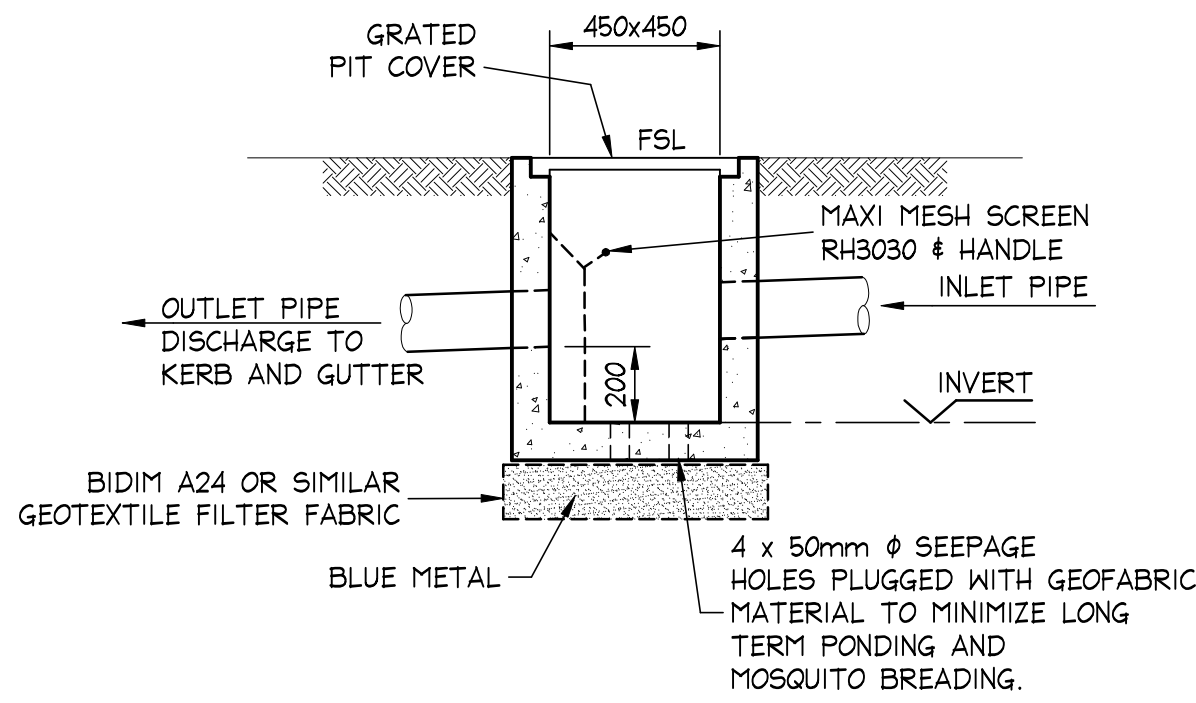
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PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

450x450 PIT DETAIL

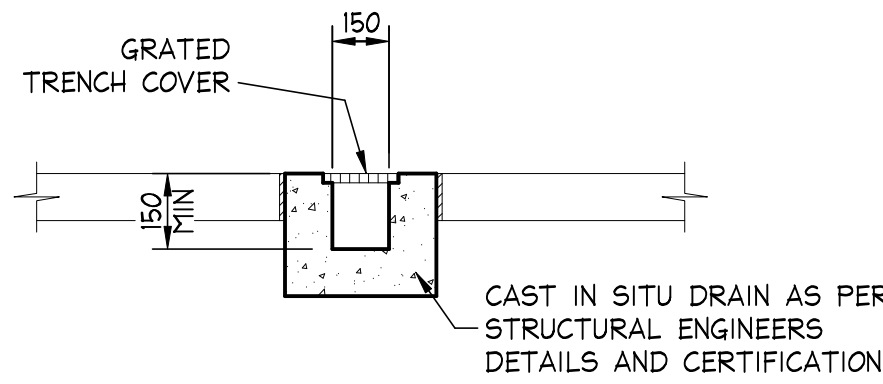
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PRECAST OR CAST INSITU PIT
REFER STORMWATER NOTES
ALTERNATE POLYPROPYLENE PIT BY MANUFACTURER

450x450 SILT ARRESTOR PIT DETAIL

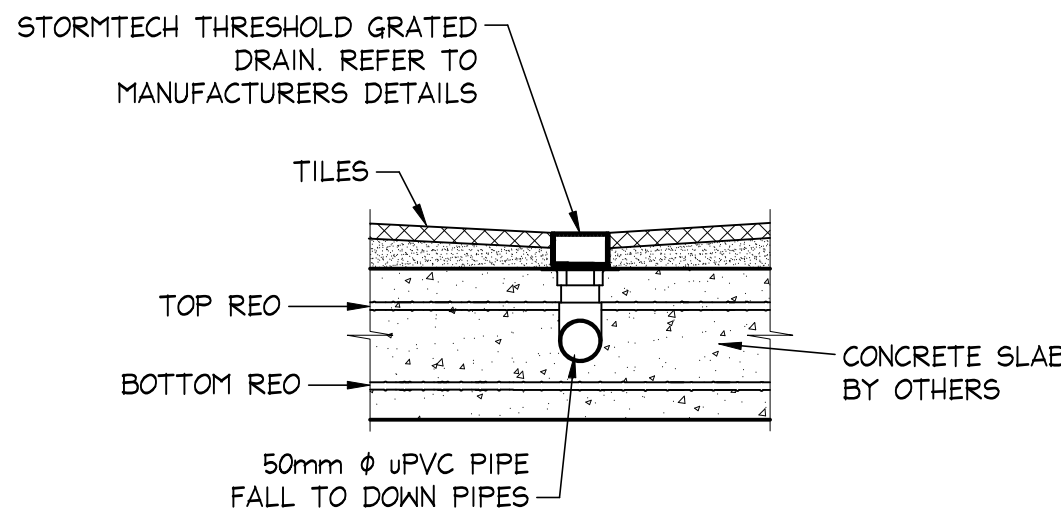
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OR PRECAST GRATED DRAIN BY MANUFACTURER
ALTERNATE POLYPROPYLENE DRAIN BY MANUFACTURER

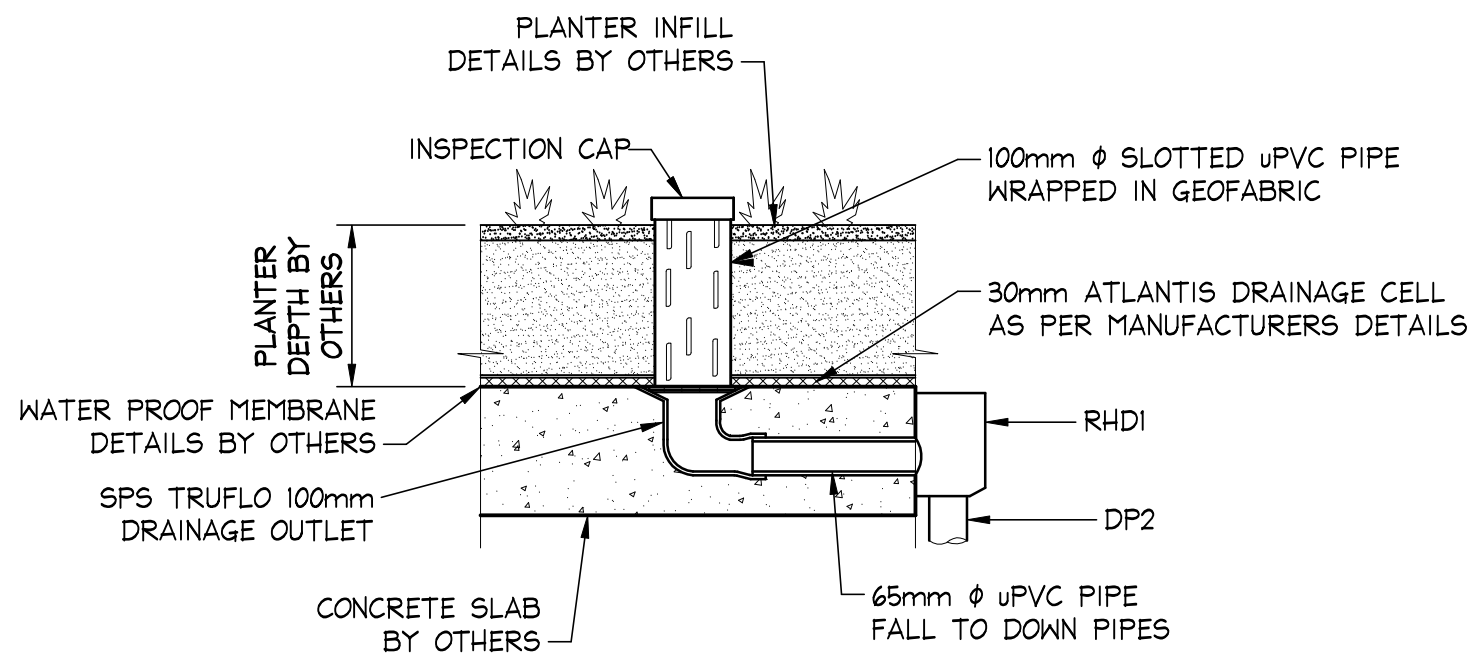
TYPE 'GDI' GRATED DRAIN

SCALE = 1 : 20



TYPE 'GD2' GRATED DRAIN

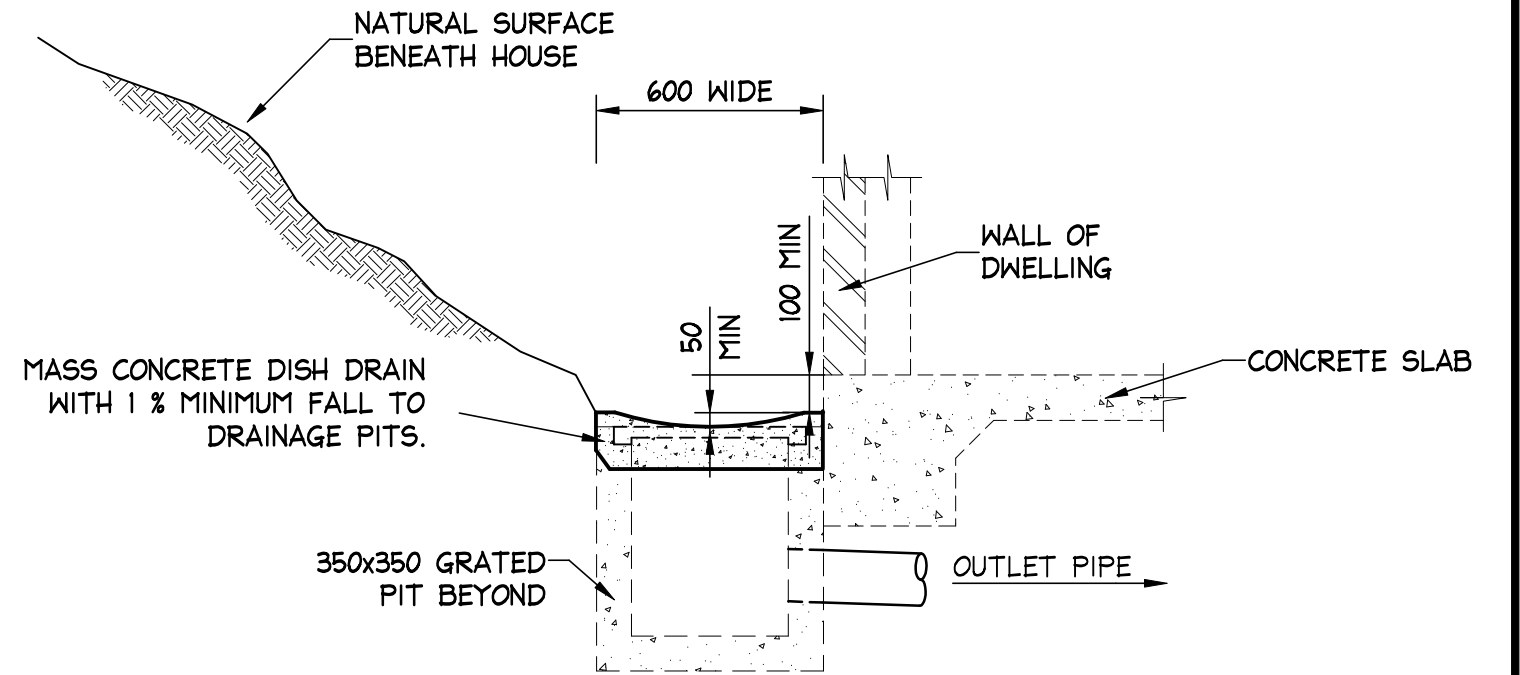
SCALE = 1 : 10



REFER TO MANUFACTURERS SPECIFICATION
FOR SPS DRAINAGE OUTLETS

STANDARD PLANTER DRAIN - 'PDI'

SCALE = 1 : 10

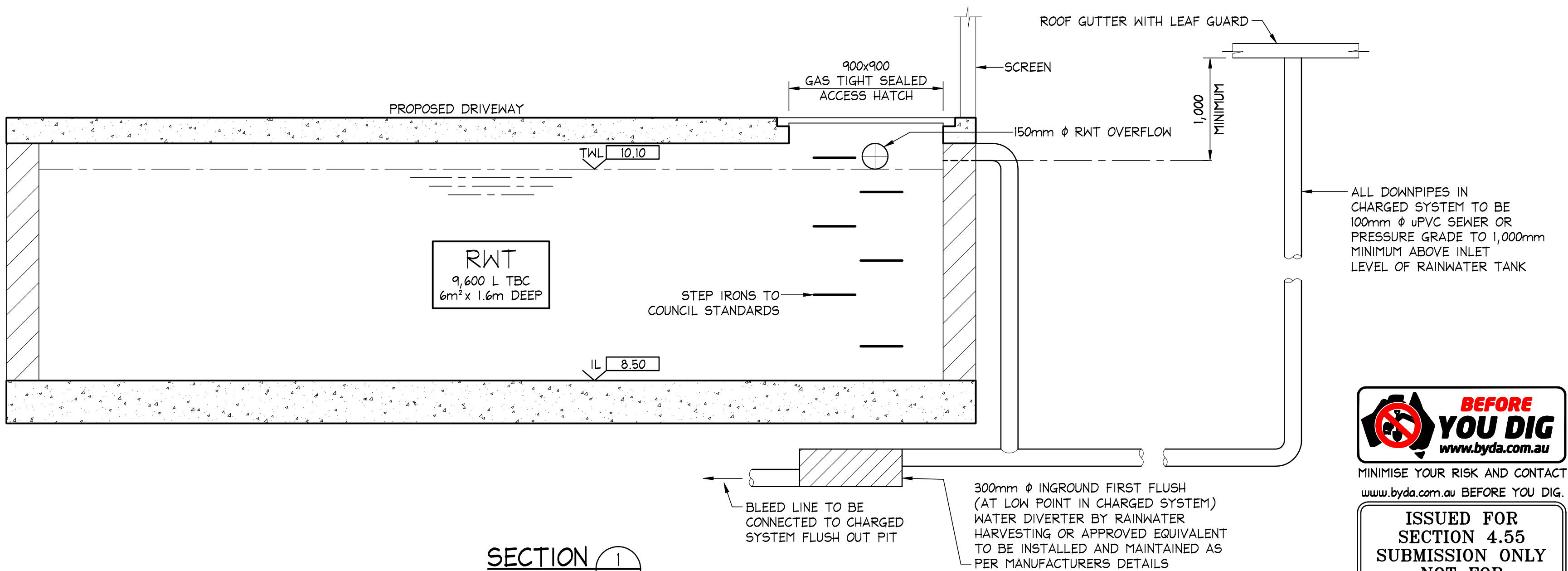


TYPICAL DISH DRAIN IN DRAINAGE VOID DETAIL

SCALE = 1 : 20

RAINWATER RE-USE TANKS:

- K1. CONSIDERING THE ROOF CATCHMENT AREA, LOCATION OF PROPERTY, INTENDED USE OF RAINWATER AND GARDEN SIZE WE RECOMMEND PROVIDING A RAINWATER TANK FOR USE AS PER BASIX REQUIREMENTS, SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY AS PER BASIX REPORT.
- K2. THE TANKS PROVIDED WILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE.
- K3. REFERENCES: COOMBES P.J. & KUCZERA G. (2001), "RAINWATER TANK DESIGN FOR WATER SUPPLY AND STORMWATER MANAGEMENT." STORMWATER INDUSTRY ASSOCIATION REGIONAL CONFERENCE. PATRICK DUPONT & STEVE SHACKLE, "RAINWATER" AUSTRALIAN GOVERNMENT (2004), "GUIDANCE ON USE OF RAINWATER TANKS".
- K4. ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS TO BE IN ACCORDANCE WITH SYDNEY WATERS' GUIDE "INSTALLING A RAINWATER TANK" AVAILABLE AT www.sydneywater.com.au
- K5. PROVIDE A DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH 'BASIX-DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES.
- K6. IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100m² OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES.
- K7. SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.
- K8. FIRST FLUSH DEVICES, OR APPROVED ALTERNATIVE, TO BE INSTALLED WITH AN AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.
- K9. BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.
- K10. PRE-STORAGE PITS FOR UNDERGROUND RAINWATER STORAGE TANKS AND FLUSH OUT PITS MAY ASSIST IN LIMITING SILT, AND PREVENT VERMIN, INSECTS (INCLUDING MOSQUITOES) AND DEBRIS FROM ENTERING THE RAINWATER STORAGE AREA.
- K11. BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230-2008. IF IN DOUBT CONTACT ENGINEER.
- K12. RAINWATER TANK TO BE WATER PROOFED IN ACCORDANCE WITH HB 230-2008



SECTION 1
SCALE = 1:20
D04

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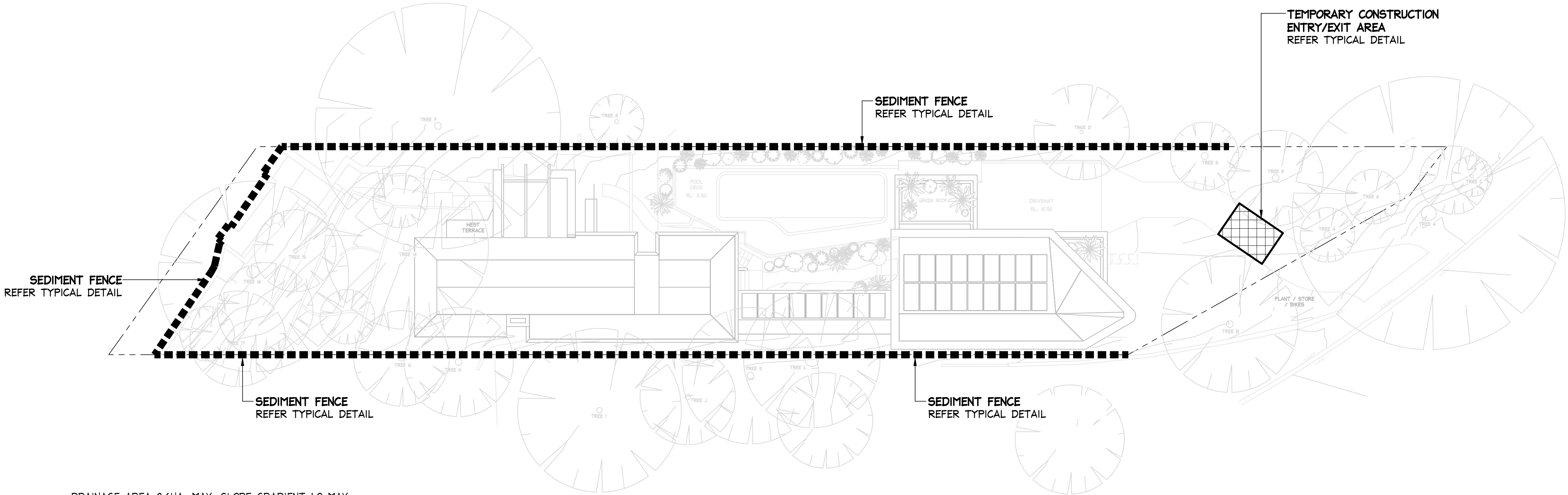
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06.10.2022	C	REVISED AREA CALCULATIONS	LB	-										
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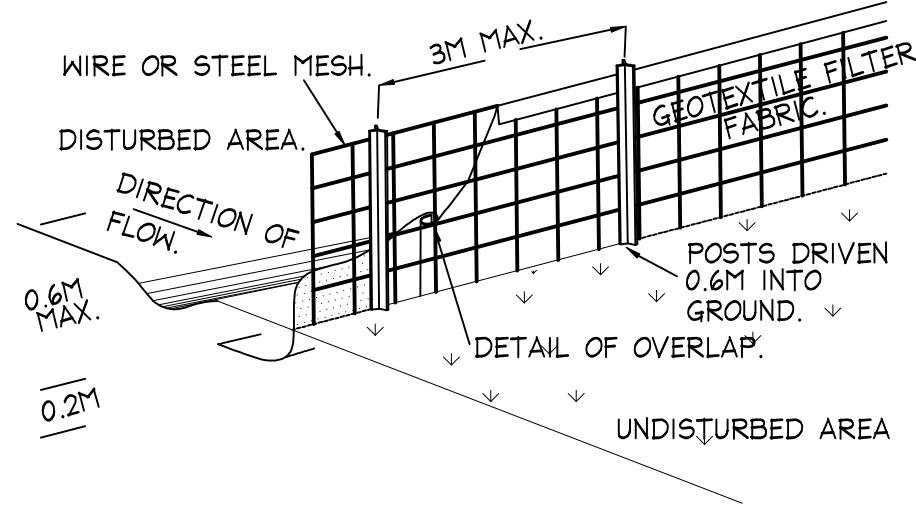
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- GENERAL NOTES :**
1. CONSTRUCTION VEHICLES ARE TO LEAVE AND ENTER THE SITE OVER AN ALL WEATHER SURFACE CONSISTING OF COURSE CRUSHED STONE OR BLUE METAL CONSTRUCTED WITHIN THE FRONT SETBACK AREA OPPOSITE THE EXISTING FOOTPATH CROSSING UNLESS NOTED OTHERWISE.
 2. EXCAVATION MACHINERY ARE TO BE UNLOADED AND LOADED UPON THIS ALL WEATHER SURFACE. CONCRETE PUMPS AND TRUCKS WILL ALSO UTILISE THE ALL WEATHER SURFACE FOR THEIR OPERATIONS.
 3. MATERIALS WILL BE UNLOADED UPON THE ALL WEATHER SURFACE WITHIN THE FRONT SETBACK AREA BY MEANS OF CRANES MOUNTED ON THE BACK OF DELIVERY TRUCKS OR UNLOADED BY HAND. IT IS NOT ENVISAGED THAT A MOBILE CRANE WILL BE REQUIRED DURING THE CONSTRUCTION PROCESS.
 4. SOME STOCKPILING OF TOPSOIL REMOVED FROM THE BUILDING AREA MAY BE STORED ON THE SITE DURING THE CONSTRUCTION WITHIN THE PROPERTY IN AN AREA ENCLOSED WITHIN THE SEDIMENT CONTROL FENCING.
 5. ALL EXCAVATED & CONSTRUCTION MATERIALS, SHED, SKIP BINS, TEMPORARY WATER CLOSETS, SPOIL AND EQUIPMENT, ETC SHALL BE KEPT WITHIN THE PROPERTY. NO VEHICLES OR MACHINES SHALL BE KEPT WITHIN THE PROPERTY. NO VEHICLES OR MACHINES SHALL STAND ON COUNCIL FOOTPATHS FOR LARGE LENGTHS OF TIME.
 6. ALL RUBBISH & RECYCLABLE MATERIAL SHALL BE STOCKPILED IN WASTE BINS IN THE AREA NOMINATED ON THE SITE PLAN WITHIN THE SITE BOUNDARY. PUBLIC PROPERTY SHALL BE KEPT FREE OF RUBBISH AND RECYCLABLES AT ALL TIMES. ANY WASTE MATERIALS SHALL BE REGULARLY COLLECTED FROM THE SITE AND DISPOSED OF IN AN APPROPRIATE FASHION.
 7. ANY BUILDING / DEMOLITION WORKS INVOLVING ASBESTOS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELAVANT STANDARDS.
 8. VEHICLES LEAVING THE SITE WILL DO SO VIA THE ALL WEATHER BALLAST DRIVEWAY MADE OF COURSE AGGREGATE LOCATED WITHIN THE FRONT SETBACK AREA OF THE DEVELOPMENT. ANY DIRT OR MATERIAL DEPOSITED ON THE ROAD RESERVE OR ROADWAY IS TO BE PROMPTLY CLEANED.
 9. ANY EXCAVATED AREA REQUIRED SUPPORT WILL BE UNDERTAKEN BY THE OWNER USING STRUCTURALLY APPROVED RETAINING STRUCTURES.
 10. ADEQUATE SAFETY SIGNAGE MUST BE ERECTED IN A PROMINENT POSITION ON THE WORK SITE, WARNING OF UNAUTHORISED ENTRY TO WORK SITE AND INTENDING DANGERS.
 11. SAFETY FENCES SHALL BE PROVIDED AROUND ALL BOUNDARIES UNLESS A CONTINUOUS STRUCTURALLY ADEQUATE FENCE PRESENTLY EXISTS. THE FENCING SHALL BE ADEQUATE TO RESTRICT PUBLIC ACCESS TO THE SITE WHEN BUILDING WORK IS NOT IN PROGRESS OR THE SITE IS UNOCCUPIED.
 12. NOISE LEVELS SHALL NOT EXCEED COUNCIL REGULATION LEVELS. BUILDING AND DEMOLITION WORKS SHALL ONLY BE CARRIED OUT BETWEEN HOURS AND DAYS SPECIFIED BY COUNCIL.
 13. GEOTEXTILE FABRIC SHALL BE PLACED ON THE INSIDE OF THE SITE FENCING PRIOR TO SITE DISTURBANCE TO PREVENT SEDIMENT WASHING FROM CLEARED AND DISTURBED AREAS OF THE SITE INTO THE STORMWATER SYSTEM DURING CONSTRUCTION UNCONTAMINATED RUNOFF FROM CLEARED OR DISTURBED AREAS IS TO BE DIRECTED TO A TEMPORARY SILT ARRESTOR PIT THAT SHALL BE PROVIDED WITHIN THE SITE AT THE STREET BOUNDARY PROCESSING SITE STORMWATER BEFORE IT IS DISCHARGED TO THE STREET DRAINAGE SYSTEM OR WATERCOURSE.
 14. ALL TOP SOIL STRIPPED & STOCKPILED ON SITE IS TO BE PLACED IN NOMINATED AREAS ON PLAN. ALL DISTURBED AREAS ARE TO BE STABILISED UPON THE COMPLETION OF BUILDING WORKS.
 15. ALL SEDIMENT CONTROL STRUCTURES ARE TO BE CONTINUALLY MAINTAINED DURING CONSTRUCTION AND INSPECTED FOR STRUCTURAL DAMAGE AFTER EACH RAINFALL EVENT, WITH TRAPPED SEDIMENT BEING REMOVED TO THE TOPSOIL STOCKPILE.
 16. WHERE THERE IS THE POTENTIAL OF SITE EROSION TO PRODUCE EXCESSIVE SEDIMENT RUNOFF SUITABLE GEOTEXTILE BARRIERS SHALL BE PLACED TO ALLEVIATE THE RISK ACCORDINGLY. BARE SURFACES SHALL BE KEPT MOIST TO REDUCE DUST LEVELS. GEOTEXTILE FABRIC LOCATED ON THE INSIDE OF FENCES SHALL ALSO BE UTILISED FOR DUST CONTROL WHERE NECESSARY.

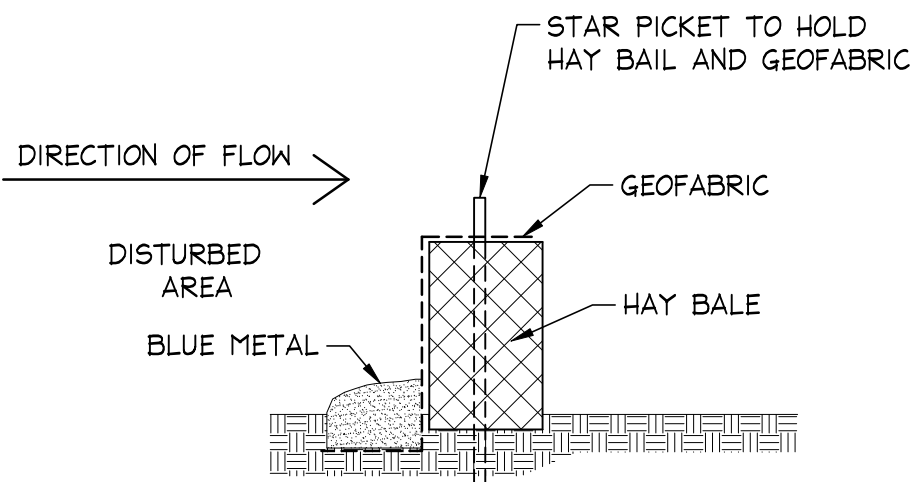


DRAINAGE AREA 0.6HA. MAX. SLOPE GRADIENT 1:2 MAX. SLOPE LENGTH 60M MAX.



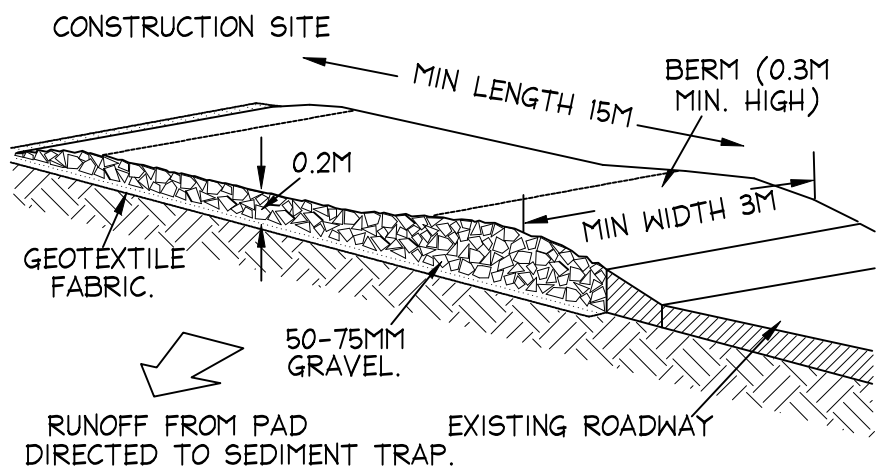
SEDIMENT FENCE - OPTION 1

- CONSTRUCTION NOTES:**
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
 2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
 3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 4. BACKFILL TRENCH OVER BASE OF FABRIC.
 5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES or AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
 6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



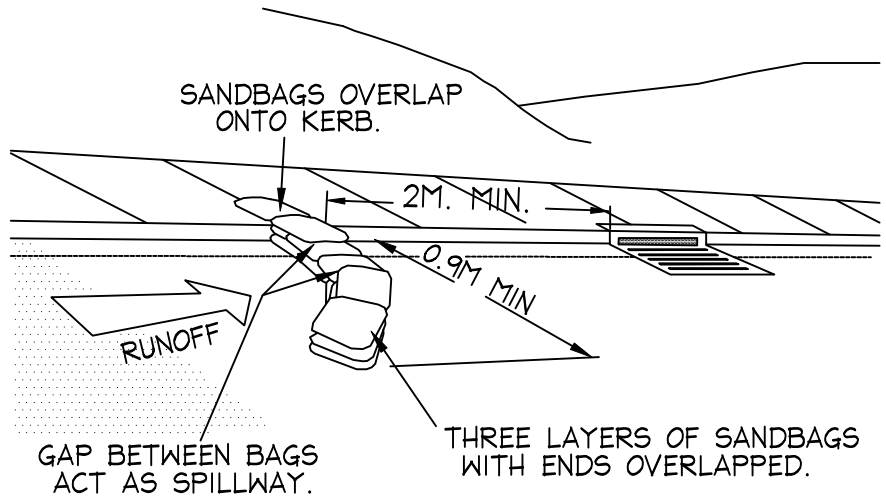
SEDIMENT FENCE - OPTION 2

SCALE = N.T.S.



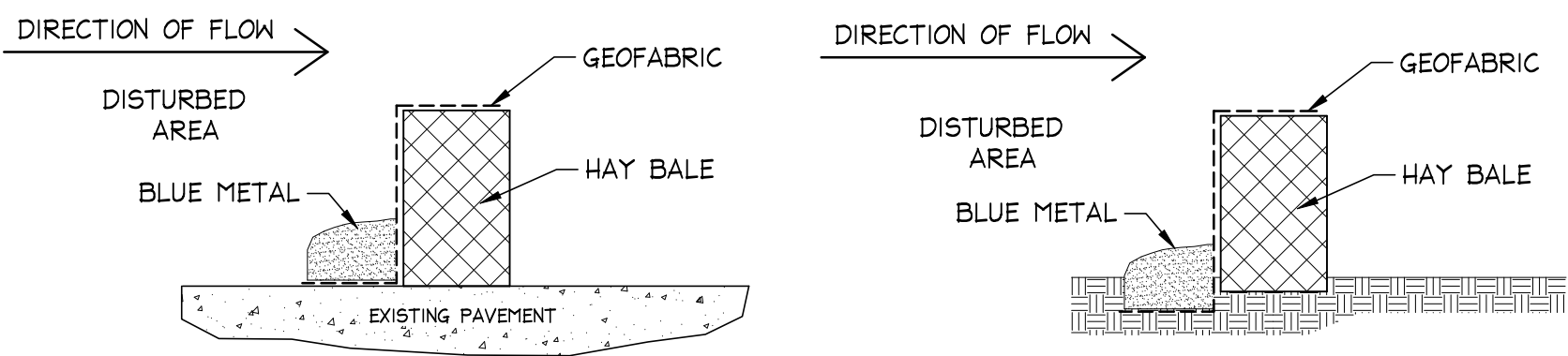
TYPICAL TEMPORARY CONSTRUCTION ENTRY/EXIT DETAIL

- CONSTRUCTION NOTES:**
1. STRIP TOPSOIL AND LEVEL SITE.
 2. COMPACT SUBGRADE.
 3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
 4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE or 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
 5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE or OTHER SEDIMENT TRAP.



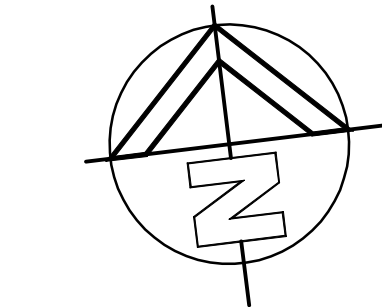
SANDBAG KERB INLET SEDIMENT TRAP

SCALE = N.T.S.



REMOVABLE HAY BALE DETAILS

SCALE = N.T.S.



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ISSUED FOR SECTION 4.55 SUBMISSION ONLY NOT FOR CONSTRUCTION

IF IN DOUBT ASK

14.06.2024	D	ISSUED FOR SECTION 4.55	NB	SR	DOCUMENT CERTIFICATION A.C.N. 076 121 616 A.B.N. 24 076 121 616 Sydney: Ph: (02) 9984 7000 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 Gold Coast: Ph: (07) 5631 4744 Suite 1, 30B Griffith Street, Coolangatta QLD 4225 E : nb@nbconsulting.com.au W : www.nbconsulting.com.au	NB Consulting Engineers STRUCTURAL • CIVIL • STORMWATER • REMEDIAL Architect: BENNETT MURADA ARCHITECTS Client: OLIVER HARTLEY	Project: ALTERATIONS AND ADDITIONS 60 HUDSON PARADE, CLAREVILLE Drawing Title: SEDIMENT AND EROSION CONTROL PLAN	Date: AUG '22 Design: LB Drawn: NB Job No: 2204111 Drawing No: D30 Issue: D
06.10.2022	C	REVISED AREA CALCULATIONS	LB	-				
26.09.2022	B	REVISED TO SUIT NEW ARCH. PLANS	NB	-				
12.09.2022	A	ISSUED FOR DA SUBMISSION ONLY	NB	HØ				
Date:	Issue:	Description:	By:	Review:				