2. DO NOT SCALE FROM THESE DRAWING

3. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE CONMENCING WITH

STORYMATER NOTES

AI. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS (LATEST VERSION) AND THE REQUIREMENTS OF THE LOCAL COUNCIL AND ANY APPLICABLE AUTHORITIES. A2. ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE. A3. THE LOCATION OF ALL DRAINAGE FLEMENTS ARE SHOWN INDICATIVELY BASED ON AVAILABLE SURVEY OR OTHER INFORMATION, ALL DRAINAGE ELEMENTS ARE TO BE INSTALLED WITH CONSIDERATION TO SITE CONSTRAINTS AND THE INTENT OF THE DRAINAGE CONCEPT.

M. ANY MATERIAL VARIATIONS TO THE DRAINAGE CONCEPT OR DETAILED STORMATER ELEMENTS MUST BE APPROVED BY NORTHERN BEACHES CONSULTING ENGINEERS PTY LTD PRIOR TO

AS, ANY EXCAVATION OR TRENCHING FOR SERVICES ADJACENT TO A STRUCTURE OR PROPERTY BOUNDARY MUST NOT ENCROACH ON THE YORK OF INFLUENCE, REFER TO THE NCC FOR FURTHER DETAILS.

BI. CONTRACTORS TO LOCATE ALL EXISTING SERVICES PRIOR TO EXCAVATION AND NOTIFY ENGANGER OF ANY POTENTIAL CLASHES WITH THE PROPOSED STORMWATER DRAINAGE SYSTEM

B2. ANY ELEMENTS OF THE EXISTING STORMATER SYSTEM MICH ARE PROPOSED TO BE RETAINED MUST BE INSPECTED AND APPROVED BY AN ENGINEER PRIOR TO CONSTRUCTION AS BOTH HAVING ADEQUATE CAPACITY TO CATER FOR THE RUNOFF DIRECTED TO IT AND BEING IN ADEQUATE CONDITION

88. EXISTING STORMWATER SYSTEM ALSO TO BE INSPECTED BY A SUITABLY QUALIFIED PLUMBER PRIOR TO CONSTRUCTION AND UPGRADED AS REQUIRED IN ACCORDANCE WITH ASSECTS

54. CARE SHOULD BE TAKEN WHEN UNDERTAKING WORKS IN THE VICINITY OF TREES NOT TO DISTURB THE TREE ROOT SYSTEM, HAND DIGGING OF TRENCHES MAY BE REQUIRED SUBJECT TO THE PROJECT ARBORISTS REQUIREMENTS, REFER TO THE ARBORIST REPORT FOR EXCAVATION REQUIREMENTS SURROUNDING PROTECTED TREE ROOT TONES.

85. SWIFTFING POOL SURCHARGE OVERFLOW TO BE CONNECTED VIA GRAVITY TO THE SEMER IN ACCORDANCE WITH ASSECO. DETAILS AND CERTIFICATION BY OTHERS.

BL. EXTENT, ALIGNMENT, DEPTH AND CONDITION OF ANY COUNCIL STORMWATER PIPELINE WITHIN A DEVELOPMENT SITE MUST BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER MUST BE NOTIFIED UPON VERIFICATION, ANY NEW CONNECTION TO A COUNCIL STORYMATER PIPELINE WILL BE SUBJECT TO COUNCIL APPROVAL AND MUST BE INSTALLED IN ACCORDANCE WITH THE LOCAL COUNCIL SPECIFICATIONS

PIPENORK INSTALLATION

- CI. ALL PIPES TO BE MINIMUM KOMM & UNLESS NOTED OTHERWISE.
- C2. ALL PIPES TO BE UPVC SENER GRADE TO AS 1254 UNLESS NOTED OTHERW
- C3. ALL PIPES TO SE LAYED AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE

C4. ALL CONNECTIONS INTO EXISTING PIPES MUST BE MADE IN THE DIRECTION OF FLOW CS. ANY NEW UPVC CONNECTIONS INTO EXISTING R.C. PIPES MUST BE MADE INTO THE TOP HALF OF THE

PIPE USING A FLONCON CONNECTION FITTING U.N.O. C6, ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 1002 S.H.D.D. BELOW

PAYEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE nm MINIMUM, BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAITTING AND WATERING IN. TRENCHES TO BE FILLED WITH NO-FINES GRANULAR MATERIAL AS

CT. ALL EXISTING EARTHEDWARE PIPES TO BE UPGRADED TO UPVC.

CO. MINIMUM PIPE COVER TO ALL IN-GROUND PIPENORK SHALL BE CARRIED OUT IN ACCORDANCE WITH

C9. ALL SUSPENDED PIPE FIXINGS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS2092. CIO. ENSURE THAT ALL STORMMATER PITS AND PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.

CII. ALL PIPEHORK MUST BE INSTALLED MITHIN THE SITE BOUNDARY OF THE DEVELOPMENT SITE, ANY NEW OR EXISTING PIPEWORK EXTENDING THROUGH PRIVATE PROPERTY BEYOND THE BOUNDARY OF THE DEVELOPMENT SITE MUST BE CONTAINED SOLELY WITHIN A DRAINAGE EASEMENT. IF NO DRAINAGE EASEMENT EXISTS. A NEW DRAINAGE EASEMENT MUST BE SOUGHT AND REGISTERED PRIOR TO UTILISING OR INSTALLING PIPEHORK THROUGH NEIGHBOURING PROPERTIES. CONTACT THE ENGINEER IF A DRAINAGE EASEMENT CANNOT BE OBTAINED

ROOF DRAMAGE

DI. ALL DOWN PIPES TO BE LOOMIN & UNLESS NOTED OTHERWISE.

D2. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK

DS. PROVIDE CLEANING EYES AT ALL DOWNPIPES.

EACH WAY UNLESS NOTED OTHERWISE.

D4. GUTTER GUARDS MUST BE INSTALLED ON ALL GUTTERS UNLESS NOTED OTHERWISE.

DS. ALL EAVES GUTTER AND VALLEY GUTTER SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH

D6. ALL BOX GUTTER SYSTEMS MUST BE INSTALLED STRICTLY IN ACCORDANCE WITH THE DETAILS. SHOWN ON THE APPROVED STORMWATER MANAGEMENT PLAN. IF NO DETAILS ARE SHOWN, THE BOX GUTTER SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH ASSESS. IF ANY CHANGE TO THE BOX GUTTER SYSTEM CONFIGURATION IS PROPOSED, THE ENGINEER MUST BE NOTIFIED FOR A RE-DESIGN. II THE INSTALLED BOX GUTTER DOES NOT STRICTLY COMPLY WITH THE DESIGN DETAILED ON THE STORMHATER MANAGEMENT PLAN, CERTIFICATION OF THE HYDRAULIC SYSTEM MAY BE REPUSED. DT. ALL GREEN ROOPS, PERSLED ROOPS AND PLANTERS WITH A CONCRETE BASE MUST BE NATERPROOFED AND HAVE DRAINAGE CELL INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

E. ALL STORMWATER PITS MUST BE INSTALLED IN ACCORDANCE WITH ASSECT.3. EZ. ALL CONCRETE PITS TO BE CAST INSITUI OR. IF PRECAST, APPROVED BY ENGINEER CAST INSITUI PITS TO HAVE form THICK CONCRETE WALLS AND BASE WALLS TO BE REINFORCED WITH I NIZ TOP THE UNLESS NOTED OTHERWISE CAST INSITU PITS GREATER THAN 900 DEEP TO SE MINIMUM 900400 AND TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH NO AT 300

ES. MINIMUM INTERNAL DIMENSIONS FOR STORMNATER AND INLET PITS TO BE IN ACCORDANCE WITH

E4. ALL PITS GREATER THAN 1200mm DEEP SHALL HAVE STEP IROMS INSTALLED STEP IROM INSTALLATION MUST BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS.



Consulting Engineers

STRUCTURAL - CIVIL - STORMWATER - REMEDIAL

55. THE BOUNDARY OR SILT ARRESTOR PIT MUST INCORPORATE A SUMP OF MINIMUM 200mm DEPTH BELOW THE INVERT OF THE OUTLET PIPE AND A MAXI-MESH SCREEN AS PER LOCAL COUNCIL AND THE AUSTRALIAN STANDARD REQUIREMENTS, HOWEVER, UNLESS SPECIFICALLY REQUIRED BY COUNCILS POLICY OR IF THE SITE CONSISTS OF A CLAY OR ROCK SUBGRADE, ALL OTHER DRAINAGE PITS WILL

56. ALL STORMNATER PITS TO BE LOCATED AT LOW POINTS TO PREVENT POINTED WATER ET, FOR STORMMATER PITS LOCATED BELOW THE WATER TABLE, CUT INTO ROCK OR IN POORLY DRAINED SOILS, THE PIT SUMP MAY BE FILLED WITH MORTAR AND SCREEDED TOWARDS THE OUTLET AT MINIMUM & FALL, SUBJECT TO THE ENGINEERS APPROVAL

FI. ALL SUBSOIL DRAINAGE TO BE INSTALLED AS REQUIRED IN ACCORDANCE WITH ASSESSO.3 SPECIFICALLY SECTION 6, 7 AND APPENDIX H) AND THE NCC.

F2. INSTALLATION OF SUBSOIL DRAINAGE LINES IS GENERALLY REQUIRED MARKE SUBSURFACE WATER MOVEMENT COULD DAMAGE BUILDINGS OR CAUSE LOSS OF AMENITY THROUGH THE BUILD-UP OF EXCESSIVE MOISTURE OR LATERAL WATER PRESSURE. THIS INCLUDES ALONG WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER, ON THE UPHILL SIDE OF CUT AND FILL SITES, ADJACENT TO DEEP FOOTINGS, BEHIND RETAINING WALLS AND ADJACENT TO BASETENT WALLS, SUBSOIL DRAINAGE IS GENERALLY ALSO REQUIRED IN SHALLOH LANDSCAPED AREAS OVER ROCK OR POORLY DRAINED SOILS TO PREVENT OVERLY SATURATED LANDSCAPED AREAS.

F3. THE INSTALLATION OF SUBSOIL DRAINAGE MAY REQUIRE TRENCHING THROUGH ROCK,

F4. ALL SUBSCIL LINES ARE TO BE KNOWN UPVC SLOTTED PIPE (UNSCOKED), LAID AT (MIN.) 0.5% FALL

PS. THE SUBSOIL LINE IS TO BE SURROUNDED BY SELECT FILTER MATERIAL, GENERALLY 10-20mm

P6. THE TRENCH SHALL BE SIZED TO PROVIDE A MINIMUM SOMM BEDDING AND KNOWN COVER ALL AROUND THE SUBSOIL LINE, GENERALLY MINIMUM 300mm NIDE X 300mm DEEP, THE TRENCH IS TO BE WRAPPED ALL-ROUND IN NON-WOVEN, GEOTEXTILE FABRIC OF STRENGTH CLASS A, NITH SUFFICIENT OVERLAP (LESSER OF TRENCH HIDTH OR 500mm).

F7. HHERE THE IN-SITU SOILS HAVE A GRAIN SIZE SMALLER THAN THE GEOTEXTILE FABRIC. COURSE WASHED-SAND SHOULD BE USED AS A FILTER TO PREVENT BLOCKAGE OF THE GEOFABRIC.

FB. THE BACKFILL LAYER OVER THE TRENCH SHALL BE NO-FINES COURSE WASHED-SAND, WHERE LANDSCAPED AREAS ARE PROPOSED OVER THE TRENCH, THE TOP 300mm OF BACKFILL MAY BE MIXED WITH UP TO 20\$ ORGANIC MATTER.

F9. ALL SUBSOIL LINES ARE TO DISCHARGE INTO A GRATED PIT, AT A LEVEL MINIMUM SOME ABOVE THE PIT OUTLET UNO. THE PROJECT BUILDER IS TO IMPLEMENT APPROPRIATE MEASURES TO PREVENT SUBSOIL LINE BLOCKAGE OR INFESTATION OF VERMIN FIG. THE HIGH-ISNO OF THE SUBSOIL LINE IS TO BE TURNED UP AT 46? AND TERMINATE AT GROUND

LEVEL WITH AN INSPECTION CAP TO EVABLE FUTURE FLUSH OUT AND MAINTENANCE. FII. 100mm # x 3000 LONG TAIL OUT SUBSOIL LINE TO BE PROVIDED ON THE UPSTREAM SIDE OF ALL LARGE PITS OR IN AREAS WITH HIGH BEEPAGE FLOWS. SUBBOIL LINE TO BE COVERED WITH GEOTEXTILE FILTER SOCK FOR THE FULL LENGTH AND END COVERED, BACKFILL MUST BE IN NO-FINES COARSE

SUBBOIL DRAWAGE

JI. MHEN LAND FALLS TOWARDS A BUILDING, INCLUDING LAND UPSLOPE OF THE PROPERTY BOUNDARY, GROUND SURFACE LEVELS ADJACENT TO THE BUILDING ARE TO BE REGRADED SUCH THAT THE FIRE METRE HAS MINIMUM SOMEN FALL AWAY FROM THE BUILDING, GENERALLY IN ACCORDANCE WITH THE

2. ANY NEW DEVELOPMENT WORKS MUST NOT CREATE ANY TRAPPED SURFACE AREAS, IN SUCH CASES WHERE TRAPPED AREAS EXIST. SMALE DRAINS OR GRATED PITS WITH PIPED OUTLETS OF ADEQUATE CAPACITY MAY BE REQUIRED TO ROUTE RUNOFF AROUND THE BUILDING TO AN APPROVED DISCHARGE POINT. IF THE TRAPPED AREA IS BELON THE NATURAL SURFACE LEVEL, A PUMP OUT SYSTEM MAY BE REQUIRED. IN ETTHER CASE, THE PROJECT ENGINEER MUST BE CONTACTED FOR DESIGN DETAILS (AS REQUIRED) PRIOR TO CONSTRUCTION

JB. BUILDER TO PROVIDE A MINIMUM KOMM WIDE X 30mm HIGH OR 50mm DIA OVERFLON FOR EVERY 6m2 OF EXPOSED AREA THAT IS TRAPPED OR SURROUNDED BY HOBS/BALLISTRADES/MALLS/ETC. THE FULL OVERFLOW DEPTH MUST BE LOCATED BELOW ANY ADJACENT INTERNAL FLOOR LEVELS OR OPENINGS TO PROTECT AGAINST WATER INGRESS DUE TO BLOCKAGE OF THE PRIMARY OUTLET(9).

RANGATER RE-LINE TANKS

KII CONSIDERING THE ROOF CATCHIENT AREA, LOCATION OF PROPERTY, INTENDED USE OF RAINWATER AND GARDEN SIZE HE RECOMMEND PROVIDING A RAINHATER TANK FOR USE AS PER BASIX REQUIREMENTS, SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY. K2: THE TANKS PROVIDED HILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE KG: REFERENCES: COOPIES P.J. & KUCZERA G. (2001). "RAININATER TANK DESIGN FOR HATER SUPPLY & STORMMATER MANAGEMENT." STORMMATER INDUSTRY ASSOCIATION REGIONAL CONFERENCE, PATRICK DUPONT & STEVE SHACKLE, "RAINWATER" AUSTRALIAN GOVERNMENT (2004), "GUIDANCE ON USE OF RAINWATER TANKS!

KA ALL CONFECTIONS TO PLUMBING AND RAINMATER TANKS TO BE IN ACCORDANCE WITH SYDNEY WATERS! GUIDE "INSTALLING A RAINWATER TANK! AVAILABLE AT www.ordneywoler.com.or KS. PROVIDE A DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH BASIX-DESIGN GUIDE FOR SINGLE DIRELLINGS BY NOW DEPARTHENT OF INFRASTRUCTURE. PLANING AND

K61 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 RAINHATER TANK, INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLLMES OF FIRST FLUSH RAINMATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES K7: SCREENED DOMNIPPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOMOPIPE. SCREEN MESH TO BE 4-4mm AND DESIGNED TO BE SELF-CLEANING. KA 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 RAINHATER TANK SUITABILITY TO BE READ AND ADVERED TO

KIO: 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

KIII BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINHATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 290-2006, IF IN DOUBT CONTACT ENGINEER,

KI2: RAINMATER TANK TO BE WATER PROOFED IN ACCORDANCE WITH HB 250-2008

DIAL BEFORE YOU DIG NOTE

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE, ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE DEVELOPERS & DICAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND

CARELESS DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE - INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND
- COMMUNICATIONS - LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS
- CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS
- CUT OFF EMERGENCY SERVICES
- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS



MINIMISE YOUR RISK AND DIAL BEFORE YOU

DIG. - TEL. 1100

NORTHERN BEACHES COUNCIL (WARRINGAH AREA) ON SITE DETENTION SYSTEM CALCULATION SHEET

ADDRESS: 205 HEADLAND ROAD, NORTH CURL CURL

SITE STORMWATER DISPOSAL METHOD

ALL WORKS IN ACCORDANCE WITH WATER MANAGEMENT FOR DEVELOPMENT POLICY, SECTION 5.5

DEVELOPMENT TYPE:

ALTERATION AND ADDITIONS

SITE DETAILS

TOTAL SITE AREA

PRE DEVELOPMENT IMPERVIOUS AREA

POST DEVELOPMENT IMPERVIOUS AREA

444 m² (61%)

420 m² (58%)

727.2 m²

OSD REQUIREMENTS

THIS IS AN ALTERATIONS AND ADDITIONS WITH AN EXISTING EASEMENT THEREFORE NO OSD IS REQUIRED FOR THIS DEVELOPMENT.

SITE STORAGE REQUIREMENT

OSD VOLUME REQUIRED

RAINWATER BASIX' REQUIRED OUTLET CONTROL

EXISTING EASEMENT

I 500L (I 650L PROPOSED)

CONSENTRATED DISCHARGE TO KERB (VIA EXISTING EASEMENT) 22 L/s

DRAWING SCHEDULE: STORMHATER DRAWINGS

DOI - STORMWATER GENERAL NOTES

DO2 - STORMHATER MANAGEMENT DRAINAGE PLANS

DOS - STORPSHATER MANAGEMENT DRAINAGE PLANS AND DETAILS

ISSUED FOR D.A. SUBMISSION ONLY NOT FOR

IF IN DOUBT ASK



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4-02-2021	A	ISSUED FOR DA SUBMISSION	МС	-
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DOCUMENT CERTIFICATION

26/02/2021 Rick G Mray ... BE(CHI), CPBHLMEAINL, NER., RPEC. 08248. Director HB Consulting Engineers)

Consulting Engineers RUCTURAL - CIVIL - STORMWATER - REMED A C N 076 121 616 A B N 24 076 121 616

Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444

Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220 E : nb@nbconsulting com au W : www.nbconsulting.com.a

ACTION PLANS

KIM AND MARCO CARLON

ALTERATIONS AND ADDITIONS 205 HEADLAND ROAD, NORTH CURL CURL

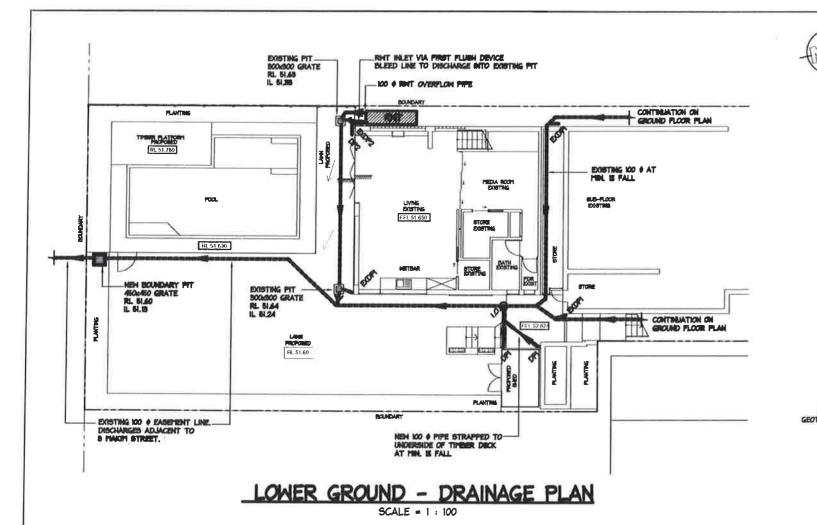
STORMWATER MANAGEMENT

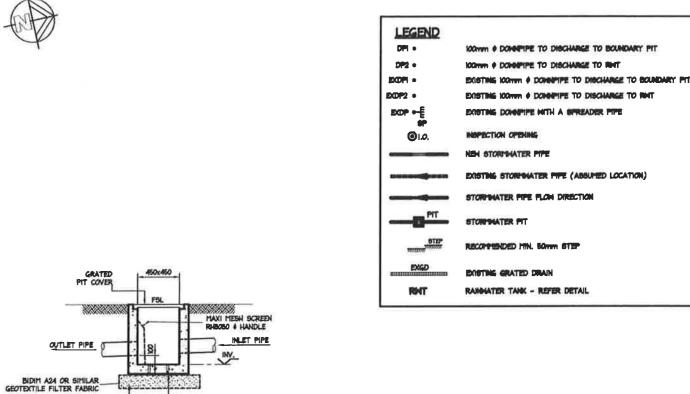
GENERAL NOTES AND DRAWING SCHEDULE

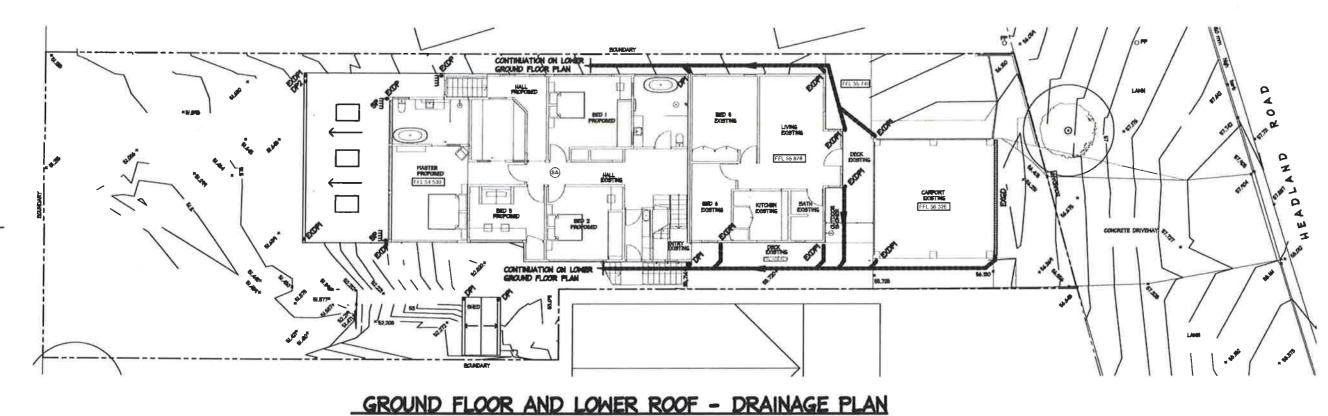
FEB 2021

MC









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IF IN DOUBT ASK

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					DOCUMENT CERTIFICATION	
					26/02/2021 A Rick G Hray	
4-02-2021	A	ISSUED FOR DA SUBMISSION	MC		(Oraclor HS Constiting Engineers)	
Date:	Issue:	Description:	Ву	Review	The capital of this drasting streamers) The capital of this drasting results with Hartison Books Consoling Statement Pty List. Treating as IS Consoling Statement.	

Consulting Engineers STRUCTURAL - CIVIL STORMWATER - REMED A C N 076 121 616 A B N 24 076 121 616

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			S J 2 0
KIM	AND	MARCO	CARLON

ACTION PLANS

BLUE METAL-

20mm # HEEP HOLES AT 200 CTS

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

TYPICAL PIT DETAIL

ALTERAT 205 HEADLAN

STORMWATER MANAGEMENT

DRAINAGE PLANS

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ND	ROAD,	NORTH	CURL	CURL	

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