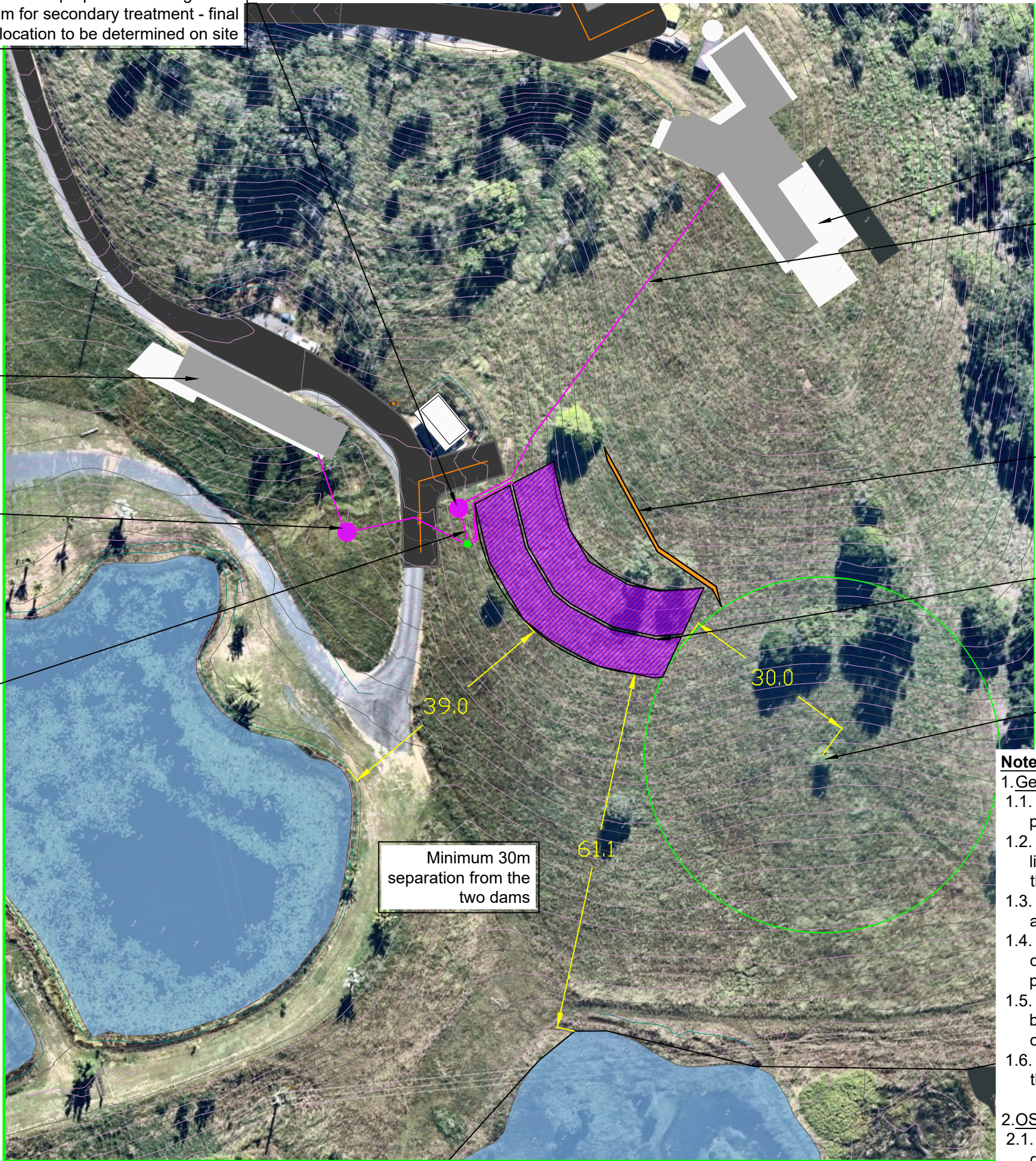
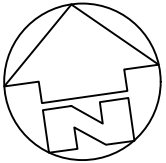
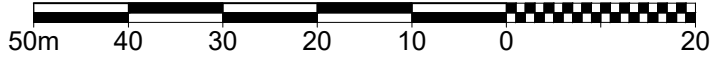


Proposed AWTS - direct all wastewater flow for the proposed dwelling to the system for secondary treatment - final location to be determined on site



SITE DETAIL PLAN
SCALE: 1:800 at A3



Final locations to be determined on site by the contractor to the satisfaction of Byron Shire Council

Proposed dwelling

Gravity flow pipework delivering the wastewater flow from the proposed dwelling to the AWTS

Construct up-slope diversion drain to direct surface flow away from irrigation field

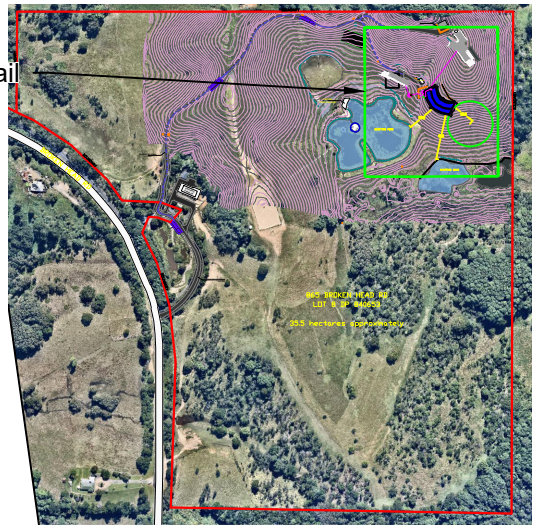
Land Application Area for disposal of treated wastewater
620m² subsurface irrigation
Refer details sheet 02

Provide 30m separation from the existing paddock tree (Scrub Turpentine - Critically endangered)

Notes:

1. General
 - 1.1. Ensure all services are located in the field prior to any excavations - Dial Before You Dig.
 - 1.2. All installations to be undertaken by a licensed plumber with experience in OSMS in the Byron Shire Council area
 - 1.3. Ensure set back distance from the disposal area to the existing dams on site as shown
 - 1.4. Ensure no disturbance within 30m of the critically endangered Scrub Turpentine paddock tree shown on the plans
 - 1.5. Final locations of the OSMS components to be determined on site, based on site specific constraints
 - 1.6. This plan is to be read in conjunction with the design report
2. OSMS
 - 2.1. A separate AWTS will be provided for each dwelling to provide advance secondary treatment of all generated wastewater
 - 2.2. The subsurface irrigation area will be combined for the two dwellings
 - 2.3. Refer sheet 02 for the land application area irrigation layout

See detail



OVERALL SITE PLAN
SCALE: 1:10000 at A3

BYRON SHIRE COUNCIL
Onsite Sewage Management Services
APPROVED PLAN
No. 70.2021.511.1
Date: 27/06/2022

PROJECT
865 Broken Head Road (Lot 8 DP 840653)
On-site Sewage Management System Design

DRAWING
OSMS OVERVIEW

CLIENT
c/o Jason Stehn

REV.	ISSUE / AMENDMENTS	DATE
A	for submission	08/07/2021
B	amended	09/07/2021
C	amended	26/01/2022
D	amended	01/02/2022

SCALE _____ REV. **D**

DESIGNED	AL/JM	DWG No.	1-1211408_WW_01
DRAWN	JM	CAD FILE No.	1-1211408_WW.DWG
CHECKED	KC		

DRAWING CREATED 08/07/2021
DO NOT SCALE FROM PLANS, TO BE ADAPTED ON SITE BY CONTRACTOR & CONFIRMED BY PROJECT SUPERVISOR, SIZING, CALCULATIONS, STRUCTURES, & COMPACTION TO BE CONFIRMED BY ENGINEER OR SUITABLY QUALIFIED PERSONS. ENGINEERS CERTIFICATE BY OTHERS.

DUAL OCCUPANCY DWELLING Treatment

Install new AWTS - use Talyex ABS (or similar)
To have a high water level visual alarm installed

Primary Dwelling Treatment

Install new AWTS - use Talyex ABS (or similar)
To have a high water level visual alarm installed

Delivery lines (32mm PN12.5 polyethylene)

See Schematic Arrangement

Indexing valve - 2 port

Construct upslope diversion drain to deflect surface run-on from the irrigation area

Manifolds (lateral) (25mm PN12.5 polyethylene)

Delivery lines (32mm PN12.5 polyethylene)

Install 620m² of subsurface irrigation. Irrigation lateral to have 1.0m separation and have pressure compensating irrigation emitters at 0.6m spacing.

Two irrigation blocks each 310 m²

Number of irrigation blocks	2
Size of blocks	310m ²
Dripper line Spacing	1.0 m
Emitter spacing	0.6 m
Emitter flow rate	1.6L/hr
Number of emitters	517/block
Total flow	827 L/hr/block
Pumped dose volume	200L
Pump frequency	8.4 cycles/day (or as required)

BYRON SHIRE COUNCIL
Onsite Sewage Management Services
APPROVED PLAN
No. 70.2021.511.1
Date: 27/06/2022

Vacuum release valve on each irrigation block

Final locations to be determined on site by the contractor to the satisfaction of Byron Shire Council

PROJECT
865 Broken Head Road (Lot 8 DP 840653)
On-site Sewage Management System Design

DRAWING
IRRIGATION DESIGN

CLIENT
c/o Jason Stehn

REV.	ISSUE / AMENDMENTS	DATE
A	for submission	08/07/2021
B	amended	09/07/2021
C	amended	26/01/2022
D	amended	01/02/2022



AWC
Australian Wetlands Consulting Pty Ltd
8 George St
Bangalow NSW 2479
P (02) 6687 1550
www.awconsult.com.au

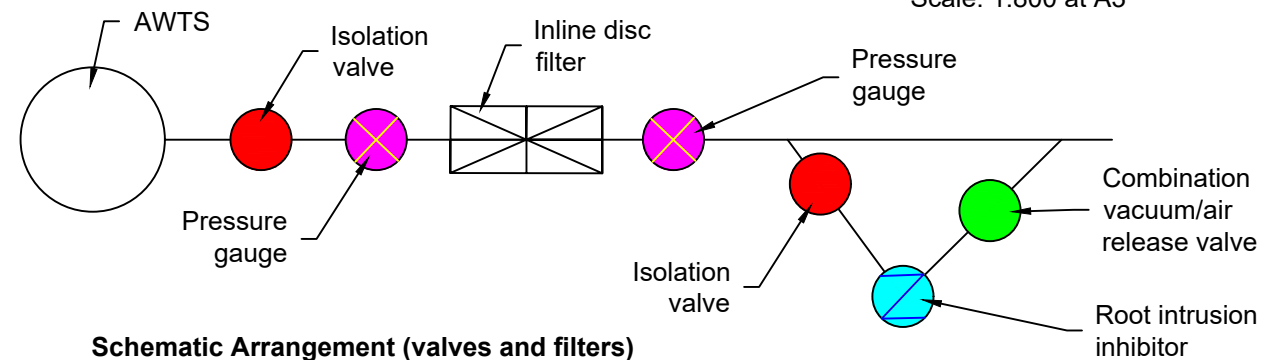
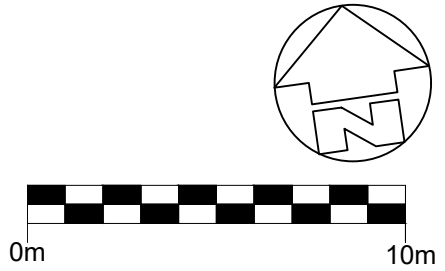
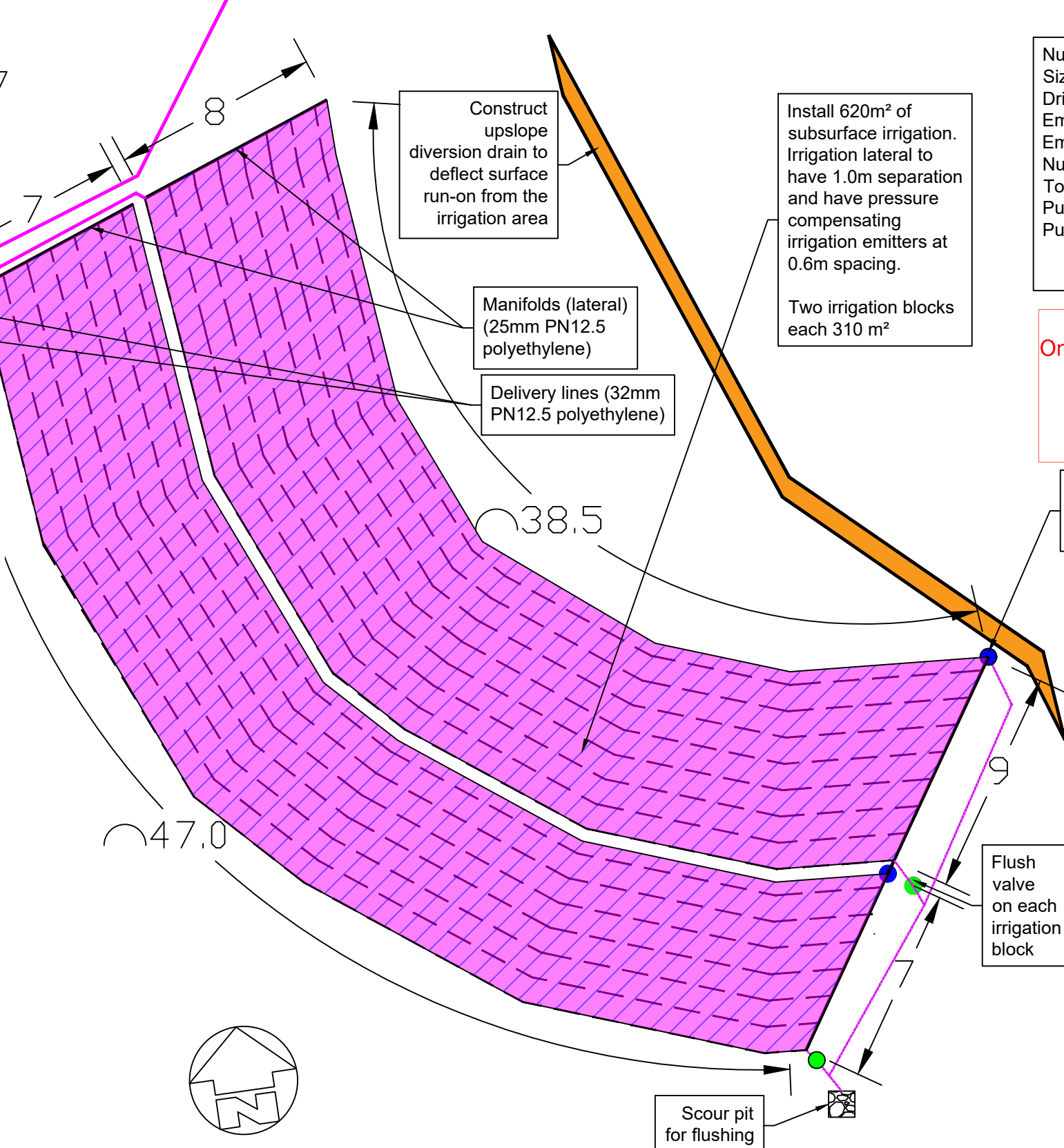
SCALE _____ REV. **D**

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DRAWN	JM	CAD FILE No.	1-1211408_WW.DWG
CHECKED	KC		
DRAWING CREATED		08/07/2021	

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Notes:

- 1. General**
 - All pipework and fittings shall be installed as per manufactures specifications and in compliance with AS2698 "Plastic Pipes and Fittings for irrigation and Rural Application"
 - Irrigation to be installed by suitability qualified contractor with experience in OSMS application in Northern Rivers NSW region
 - All work to be overseen by licensed plumber
 - Commissioning shall include a hydraulic test run to ensure no leaks and even distribution prior to back filling
- 2. Treatment System**
 - Each dwelling will have a separate AWTS for treatment
 - All wastewater from each proposed dwelling is to be directed to the relevant AWTS for treatment
 - The AWTS (use Taylex ABS or similar - requires 50% TN reduction capacity) will provide advanced secondary treatment
 - Each AWTS requires a maintenance contract with an accredited service technician
 - Pump doses to disposal area to be set to 200L set on a float switch (or similar)
- 3. Disposal System**
 - A combined irrigation area will be installed to dispose of the treated wastewater from both dwellings
 - Install 620m² of subsurface irrigation required to adequately dispose of the treated wastewater
 - Irrigation laterals to be set at 1.0m centers and length to suit
 - Irrigation emitters to be 0.6m spacing
 - Two irrigation blocks of 310m² each
 - Use indexing valve to deliver sequential doses to the irrigation block
 - Irrigation laterals to have pressure compensating emitters
 - Construct a diversion swale upslope of the OSMS to deflect surface water away from the system
- 4. Irrigation Detail**
 - Refer schematic arrangement
 - Install non return (isolation) valve on each AWTS unit
 - Install vacuum release valve on high side of each irrigation block
 - Install flush valve on each block and scour pit (1m² x 0.25m depth 10-20mm gravel)
 - Inline disc filter 140 micron 12 mesh + Netafim Tech filter on the outlet of both AWTS units
 - Install 400kpa glycerine filled pressure gauges each side of filter (must be no more than 70kpa loss through filter before cleaning required)
 - Install indexing or rotor valve to deliver sequential doses to each irrigation block
 - Irrigation laterals to be minimum Ø13mm pressure compensating subsurface drip irrigation pipe Netafim Unibioline (or similar), 1.6L/h emitters at 0.6m spacing
 - Delivery line to be Ø32mm PN12.5 polyethylene effluent grade poly pipe
 - Laterals (manifold) line to be Ø25mm PN12.5 polyethylene effluent grade poly pipe



Schematic Arrangement (valves and filters)
not to scale

OSMS IRRIGATION LAYOUT PLAN
Scale: 1:800 at A3

BYRON SHIRE COUNCIL
Onsite Sewage Management Services
APPROVED PLAN
No. 70.2021.511.1
Date: 27/06/2022



#HR-XUJXDE-01 08/07/2021
 4.9 Minimum star rating
 Accreditation No. DMN14/1658
 Address: 865 Broken Head Road, Broken Head, NSW, 2481
 www.nthrs.gov.au
 http://www.bero-software.com.au/pdf/HR-XUJXDE-01

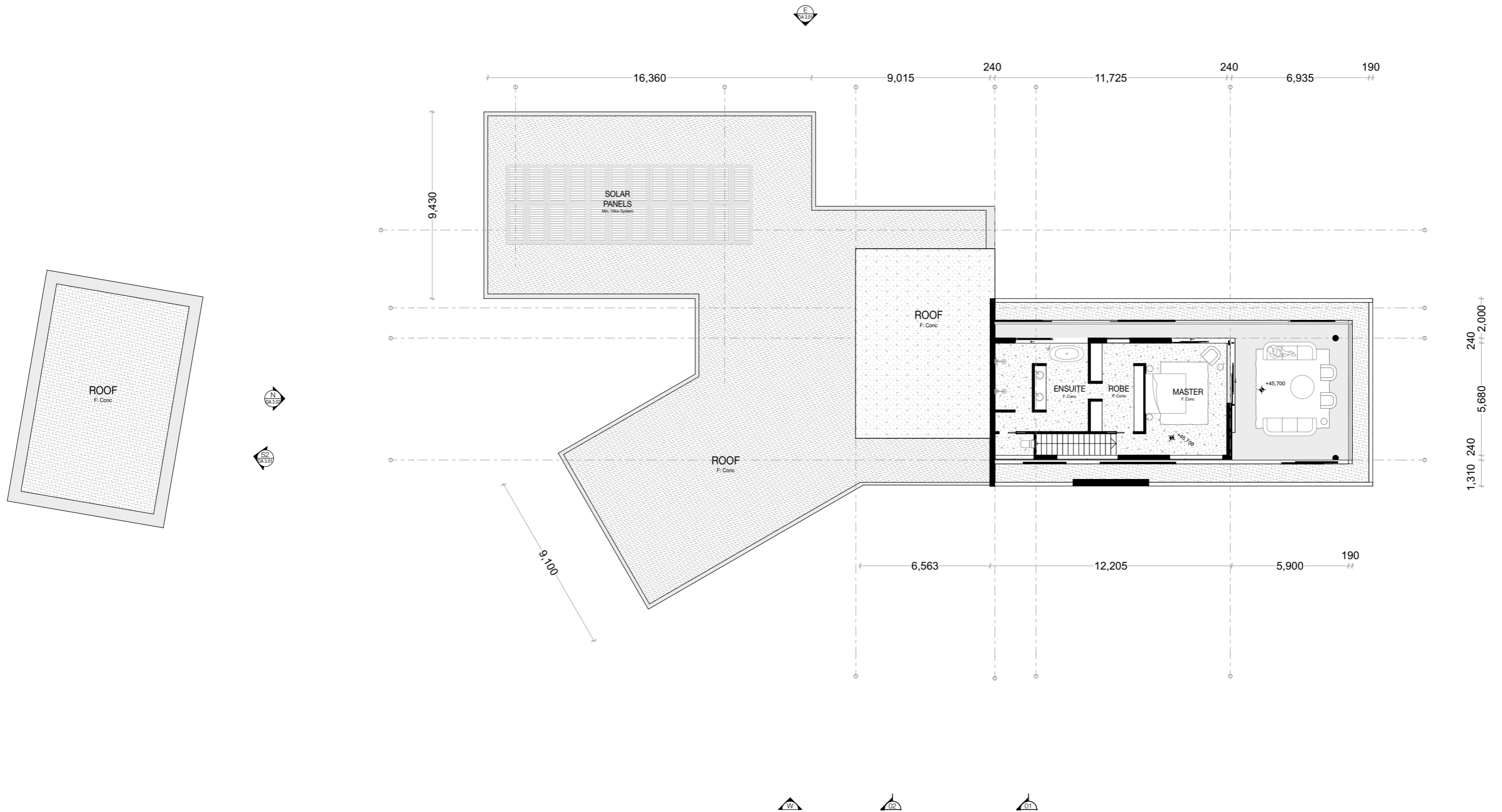
HGA HARLEY GRAHAM ARCHITECTS
 LVL 1/144 JOHNSON STREET BYRON BAY | PO BOX 1285 NSW 2481
 F: 02 66809820 | T: 02 66809690 | E: office@harleygraham.com
 ABN: 85158246003 NSW 7892

All building works to be carried out in accordance with the Building Code of Australia (BCA) and to the satisfaction of the principle certifying authority. Builders/Contractors are to verify all dimensions prior to commencement of site work or off-site fabrication. Figured dimensions take precedence - do not scale.
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Issue Date	Issue ID	Issue Name
3/3/21	01	DRAFT DA
9/6/21	02	REVISED DA - As per bushfire advice
29/6/21	03	REVISED DA - As per Consultant advice
8/7/21	04	FINAL DA - Issued for lodgement

NEW DWELLING, POOL AND GARAGE	865 BROKEN HEAD RD
DWELLING AND POOL	BROKEN HEAD
JOB NAME	ADDRESS
HGA266	LOT 8 DP 840653
JOB NO.	LOT + DP
1:200	SCALE

SHEET TITLE	APPROVED
PROPOSED DWELLING - GROUND FLOOR PLAN	HG
DWG NO.	REV
DA 2.01	04
STATUS	
NOT FOR CONSTRUCTION	



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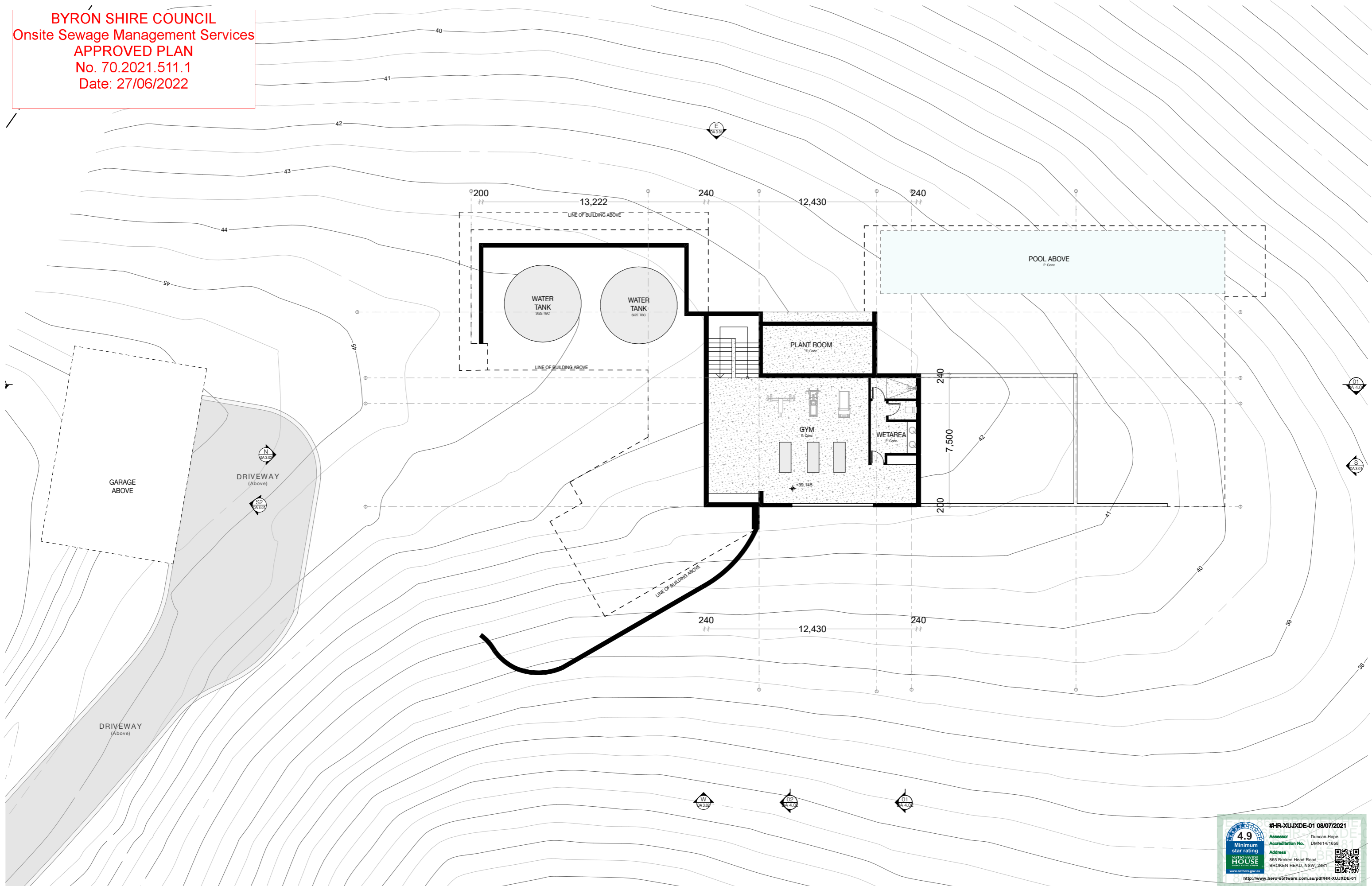
Issue Date	Issue ID	Issue Name
3/3/21	01	DRAFT DA
9/6/21	02	REVISED DA - As per bushfire advice
29/6/21	03	REVISED DA - As per Consultant advice
8/7/21	04	FINAL DA - Issued for lodgement

NEW DWELLING, DWELLING AND POOL		865 BROKEN HEAD RD	
LOT 8		BROKEN HEAD	
DP 840653		ADDRESS	
HGA266	1:200	PAPER	A3
LOT + DP	SCALE		

SHEET TITLE		PROPOSED DWELLING - FIRST FLOOR PLAN	
DA 2.02	DWG NO.	STATUS	
		NOT FOR CONSTRUCTION	

APPROVED	HG
REV	04

BYRON SHIRE COUNCIL
Onsite Sewage Management Services
APPROVED PLAN
No. 70.2021.511.1
Date: 27/06/2022



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Issue Date	Issue ID	Issue Name
3/3/21	01	DRAFT DA
9/6/21	02	REVISED DA - As per bushfire advice
29/6/21	03	REVISED DA - As per Consultant advice
8/7/21	04	FINAL DA - Issued for lodgement

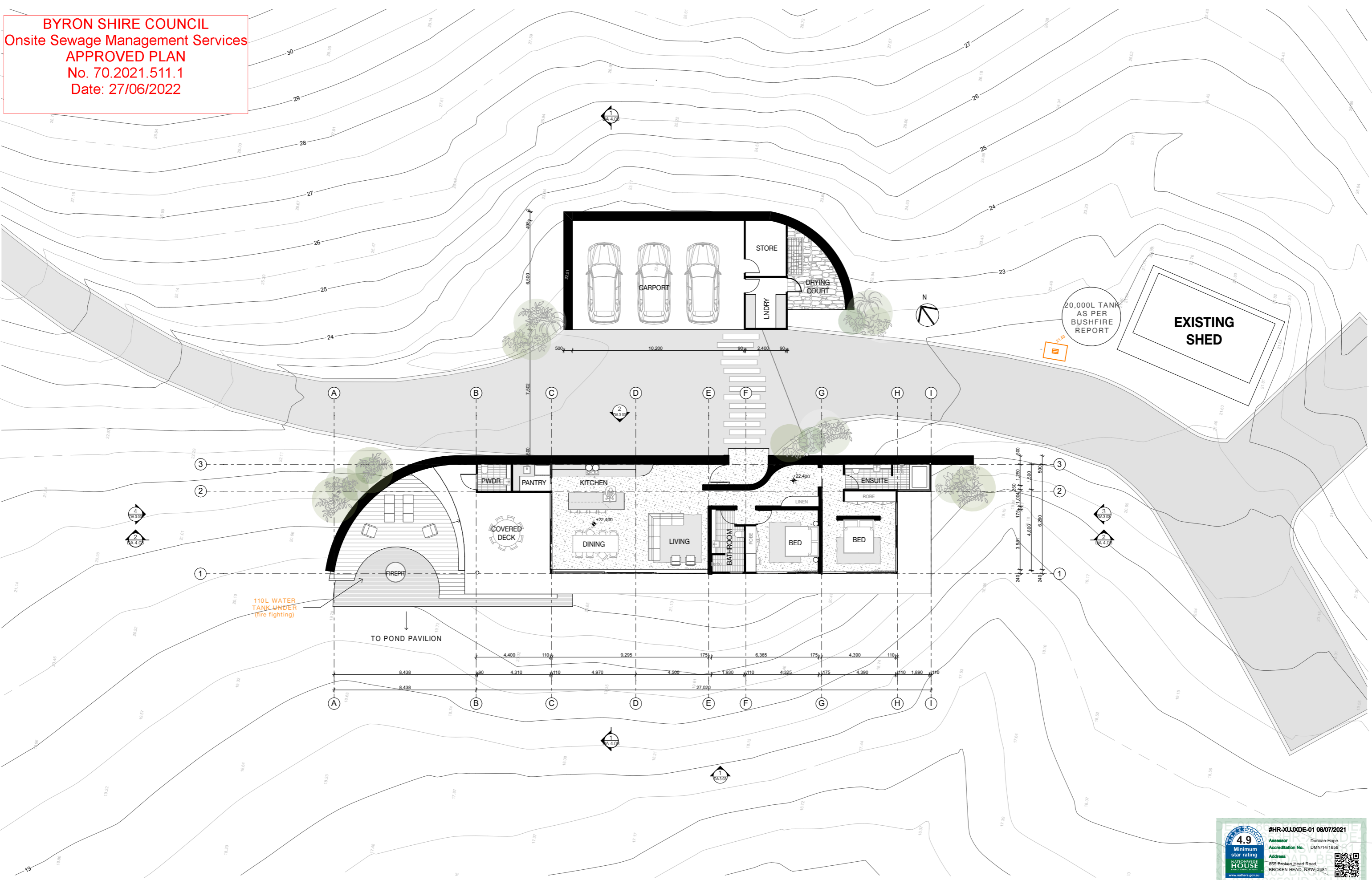
NEW DWELLING, DWELLING AND POOL
 865 BROKEN HEAD RD
 BROKEN HEAD
 ADDRESS

HGA266 **LOT 8** **DP 840653** **1:200**
 JOB NO. LOT + DP SCALE

PROPOSED DWELLING - BASEMENT PLAN

DWG NO. **DA 2.03** STATUS **NOT FOR CONSTRUCTION** APPROVED **HG** REV **04**

BYRON SHIRE COUNCIL
Onsite Sewage Management Services
APPROVED PLAN
No. 70.2021.511.1
Date: 27/06/2022



4.9 Minimum star rating
NATIONWIDE HOUSE
 #HR-XUJXDE-01 08/07/2021
 Assessor: Duncan Hope
 Accreditation No: DMN14/1658
 Address: 865 Broken Head Road, Broken Head, NSW, 2481
www.nthrs.gov.au
<http://www.hero-software.com.au/pdf/HR-XUJXDE-01>

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Issue Date	Issue ID	Issue Name
3/3/21	01	DRAFT DA
9/6/21	02	REVISED DA - As per bushfire advice
29/6/21	03	REVISED DA - As per Consultant advice
8/7/21	04	FINAL DA - Issued for lodgement

NEW DWELLING, SEMI-DWELLING	865 BROKEN HEAD RD
DWELLING AND POOL	BROKEN HEAD
JOB NAME	ADDRESS
HGA266	LOT 8 DP 840653
JOB NO.	LOT + DP
SCALE	PAPER A3

SHEET TITLE	DUAL OCCUPANCY DWELLING	FLOOR PLAN	APPROVED
PROPOSED			HG
DWG NO.	DA 2.05	STATUS	REV
		NOT FOR CONSTRUCTION	04