DEVELOPMENT APPLICATION alterations & additions to existing home at No.105 WYADRA AVENUE, NORTH MANLY

0

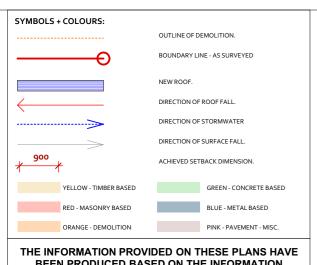
YARD

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BEEN PRODUCED BASED ON THE INFORMATION PROVIDED TO US BY THE CLIENT, and THE CLIENT'S CONSULTANTS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL DIMENSIONS, LEVELS, SEWER AND STORMWATER INVERT LEVELS, UNDERGROUND and **OVERHEAD SERVICES, and FLOOR AREAS CHECKED** AND VERIFIED.

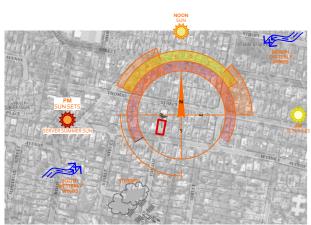
ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT SUPERINTENDENTPRIOR TO THE COMMENCEMENT OF ANY BUILDING WORK or **FABRICATION OF ITEMS.**

LEGEND:			
AFFL	ABOVE FINISHED	Н	HIGH
	FLOOR LEVEL	HDR	HANDRAIL
BAL	BALUSTRADE	MDR	METAL DECK ROOF
BG	BOX GUTTER - TO		SHEETING
	ENGINEER'S DETAILS	MTL	METAL SHEET
BLD	BUILDING	O/H	OVERHEAD
BSN	BASIN	PAR	PARAPET
BWK#	BRICKWORK-	PAV	PAVEMENT
	COLOUR/FINISH	PF	PAINT FINISH
COL	COLUMN	PP	POWER POLE
CONC	CONCRETE	R	RENDER
COS	CONFIRM ON SITE	RR	ROOF RIDGE
CPT	CARPET	RL	RELATIVE LEVEL
DP	DOWNPIPE	RT	ROOF TILE
DR	DRYER	RWO	RAINWATER OUTLET
Ex.	EXISTING	SHR	SHOWER
FB	FACE BRICK	TD	TIMBER DECK
FC#	FIBRE CEMENT	TF	TIMBER FLOOR
	SHEETING-TYPE	TFAS	TOP OF FASCIA
FCL	FINISHED CEILING	TG	TOP OF GUTTER
	LEVEL	TILE	TILED FLOORING
FFL	FINISHED FLOOR	TYP	TYPICAL
	LEVEL	TW	TOP OF WALL
FLUE	FIRE PLACE FLUE	WC	WATER CLOSET
FP	FIRE PLACE -		TOILET SUITE
	INTERNAL	WIN	WINDOW
GL	GLASS-TO BASIX	WM	WASHING MACHINE
	REQUIREMENTS	VNTY	VANITY

105 WYADRA AVENUE, NORTH MANLY 2096 PROPOSED ALTERATIONS & ADDITIONS TO EXISTING

Works Include:

- rear addition; carport; driveway & altered crossover



LOCATION & ANALYSIS PLAN



EXISTING ROOF PLAN STREET PHOTO - BUILDING TO BE DEMOLISHED

HOUSE

ADJOINING PROPERTY

LOT 77, DP 19139

CARPORT

EX TILED ROOF

STRIP DRIVEWAY

LOT 76, DP 19139

EX SINGLE STOREY CLAD / TILE

HOUSE WITH DETACHED GARAGE

No. 105

ADJOINING PROPERTY

LOT 75, DP 19139

HOUSE

AREAS: Site Area: Existing GFA and FSR: Proposed GFA and FSR Existing Site Coverage Maps ASS_010 FLD 010 FSR_010 HER_010

118 0m² 159.0m² 217.0m² Existing Deep Soil Landscaping 312.0m² Applies

YARD

YARD

0

YARD

GARAGE

ex_site covera A: 25 m²

Requirement No No n/a Yes not applicable - not in heritage conservation area; not a listed item; not in the vacinity of a listed item HOB_010 8.5m LZN_010

Land Zoning: R2 - Low Density Residential

Height of Building: Area I 8.5m

Landscape ratio: 40% = 234.2sqm

Landslip Risk - A - 5deg

Rear setback - Area D: 6m

585.5m²

FSR: not mapped or under clause 4.4 - site coverage and landscaped area based

Heritage: Not an item; not in conservation area. No items in the vicinity.

Private Open Space: 3 or more bedrooms - 60sqm min. 5m measurement.

Roof Form: Form to follow streetscape - pitched - varying hip or gable

Wall height permissible: 7.2m and 45deg envelope above

Side setback - Area B: 900mm @ 7.2 wall height

Excavation: Part C7 - No numerical requirement

Front setback - predominant line between neighbours or 6.5m

(0.20:1)

(0.27:1)

(0.37:1)

(0.53:1)

	Yes R2-Low De	ensity Residential
LOT 76, DP 19139	North	Project PROPOSED ALTERATIONS & ADDITIONS TO EXISTING HOME -rear addition; carport; driveway & altered crossover 105 WYADRA AVENUE, NORTH MANLY NSW, 20
NORTHERN BEACHES	COPYRIGHT THIS DESIGN AND THE ASSOCIATED DOCUMENTS ARE SUBJECT TO COPYRIGHT LAWS AND MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM HARGROMES REPORT OF THE LITTURE OF THE PRODUCED THE PROPERTY OF THE PROPER	DEBORAH & MATTHEW MILLINER

Side Boundary Envelope: 5m COMPLIES DA SUBMISSION **NORTHERN BEACHES COUNCIL**

ADJOINING PROPERTY

LOT 61, DP 19139

NOT MAPPED or NOT CLAUSED IN 4.4

WLEP 2011 MAPS_010

COMPLIES

ASSESSMENT

COMPLIES

COMPLIES COMPLIES

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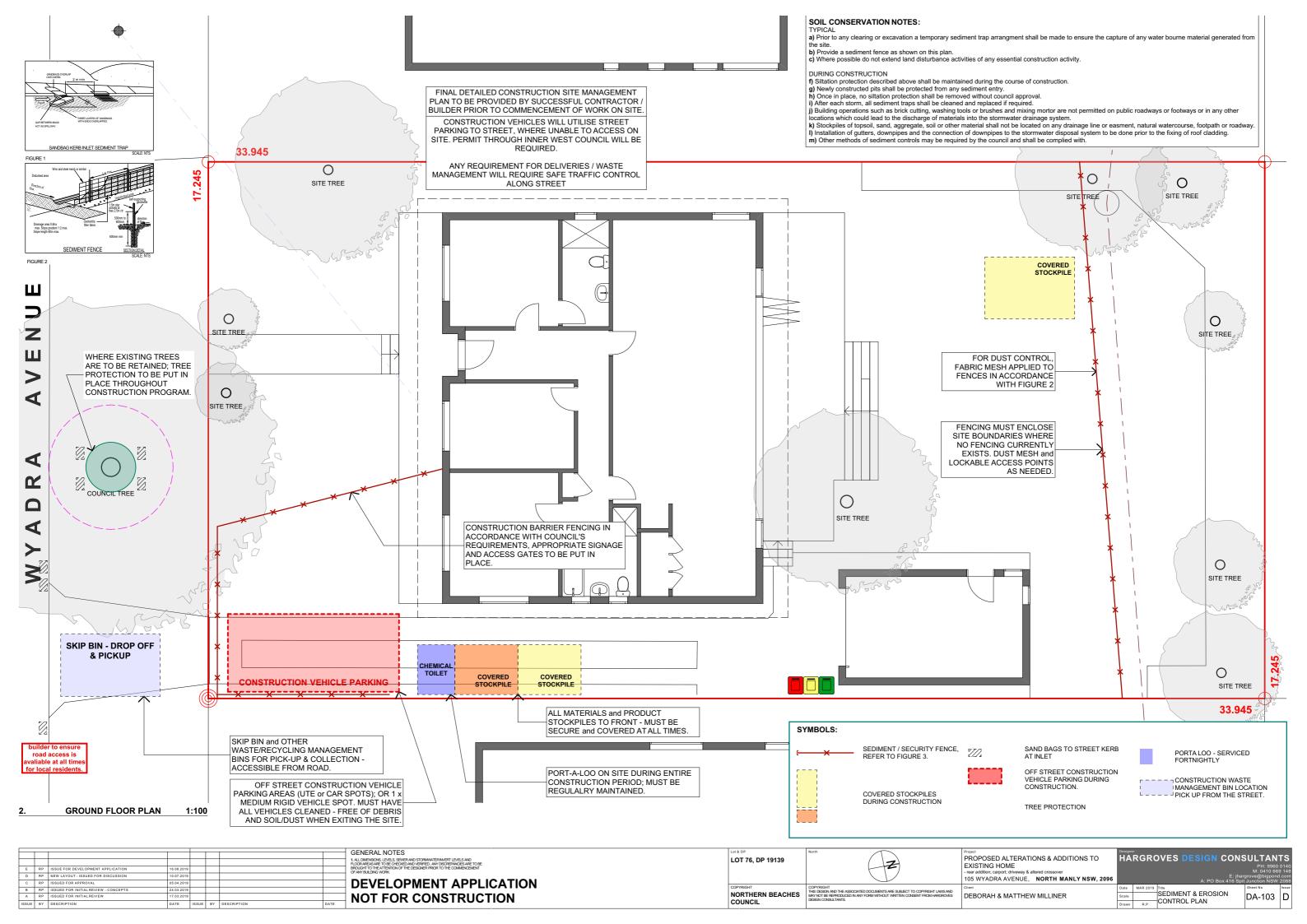
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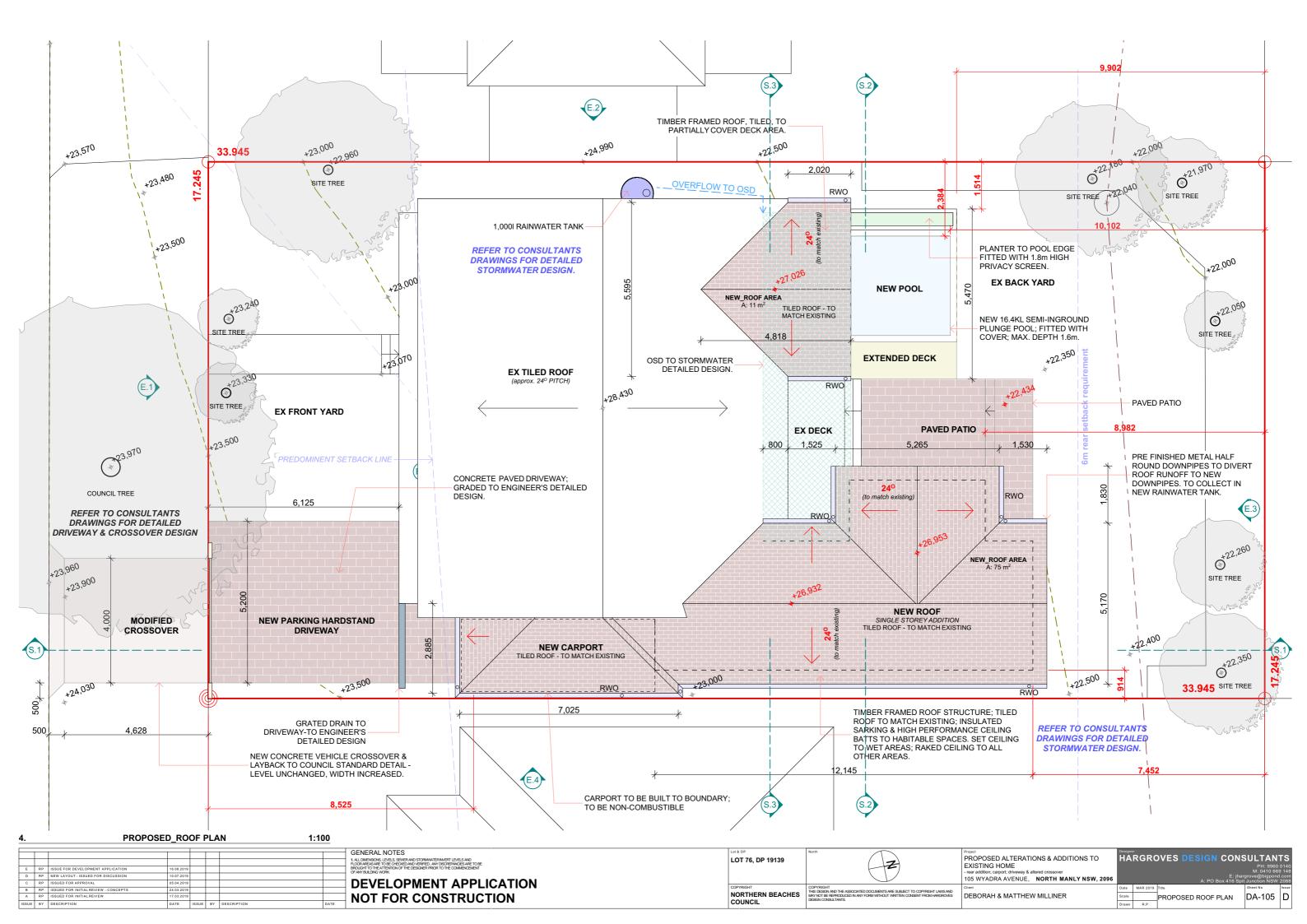
HARGROVES DESIGN CONSULTANTS

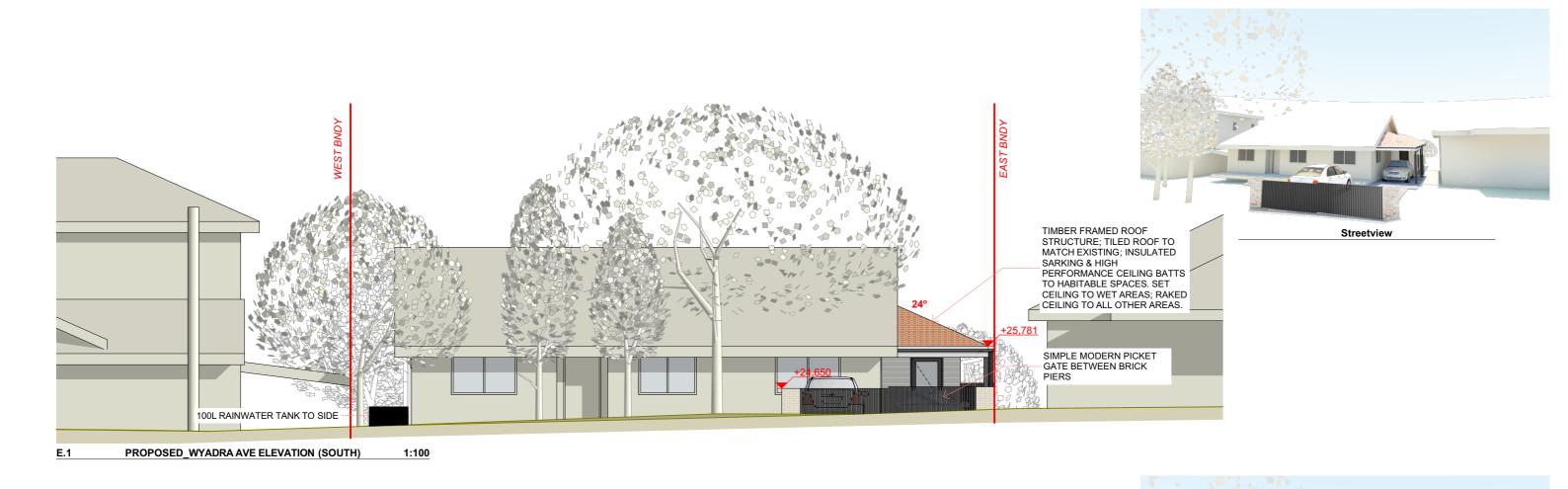
MANLY NSW, 2096 COVER SHEET, LOCATION DA-100 D - ROOF PLAN

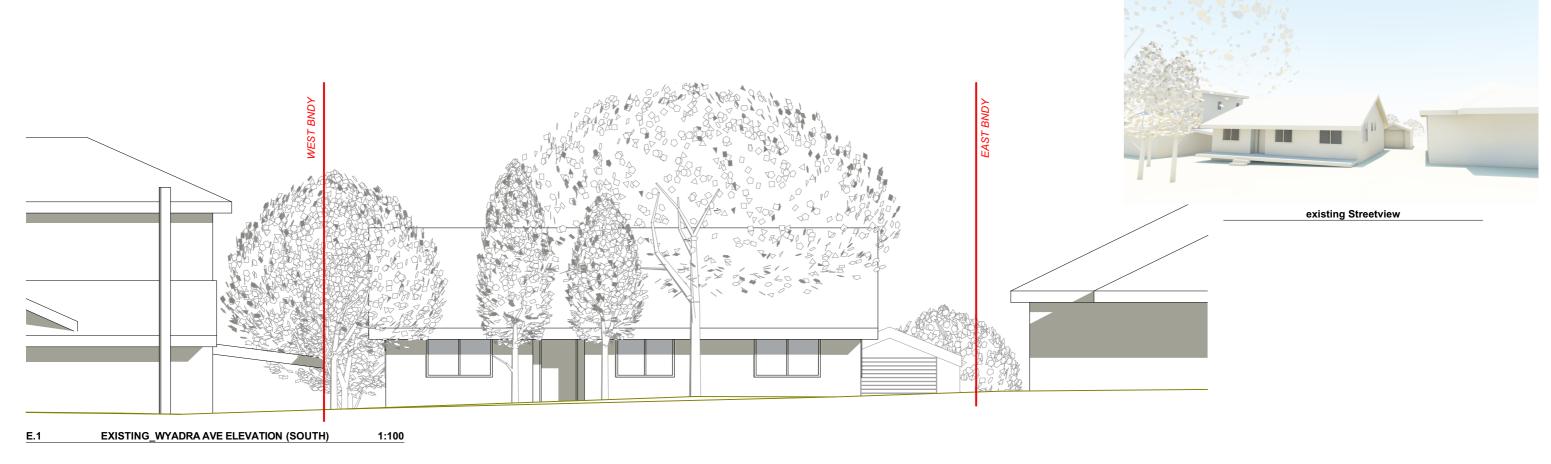
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E	RP	ISSUE FOR DEVELOPMENT APPLICATION	16.08.2019					
D	RP	NEW LAYOUT - ISSUED FOR DISCUSSION	10.07.2019					
С	RP	ISSUED FOR APPROVAL	05.04.2019					
В	RP	ISSUED FOR INITIAL REVIEW - CONCEPTS	24.03.2019					

GENERAL NOTES **DEVELOPMENT APPLICATION** NOT FOR CONSTRUCTION

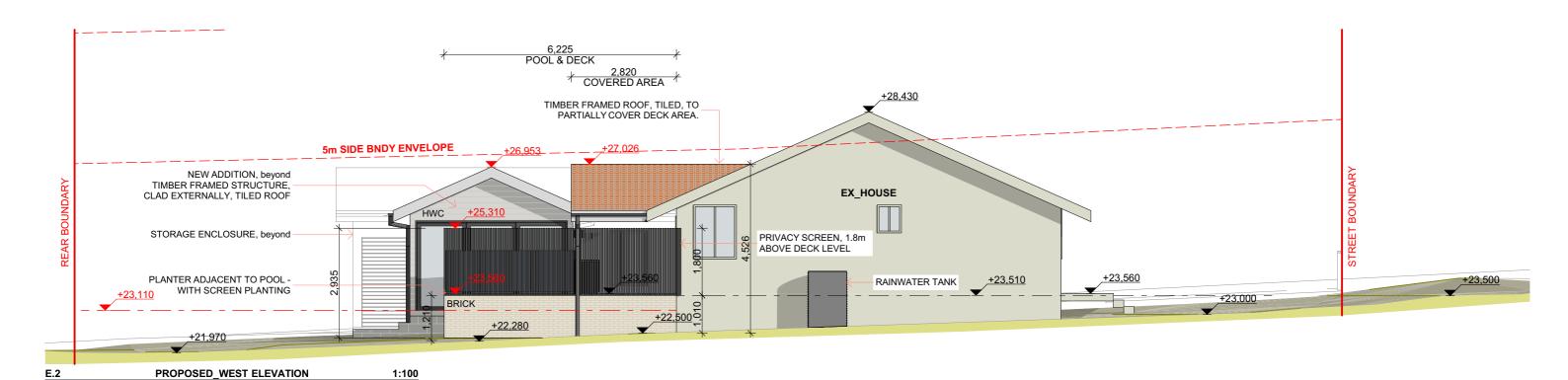


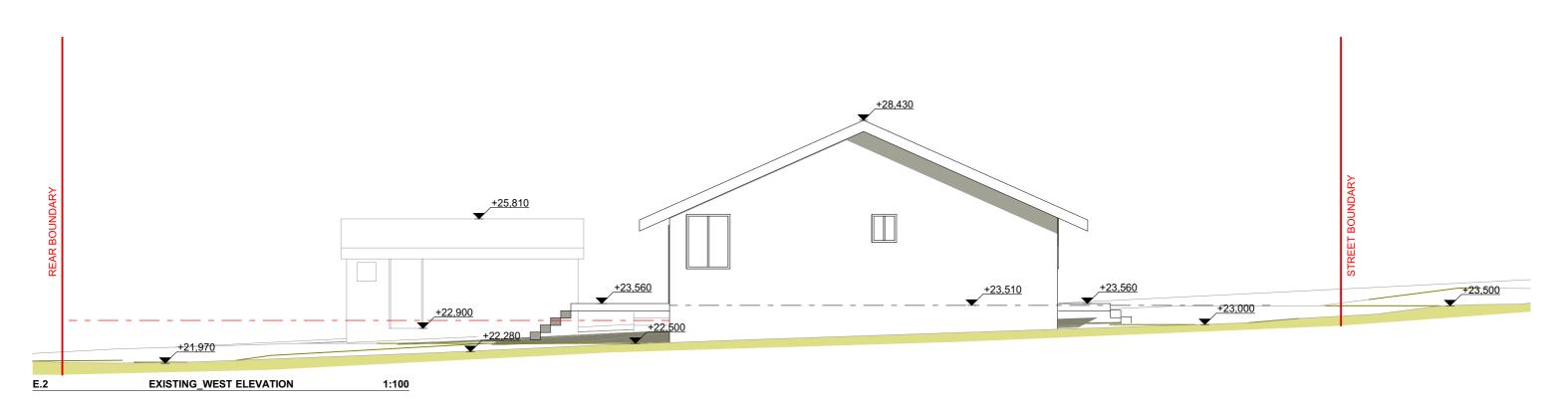




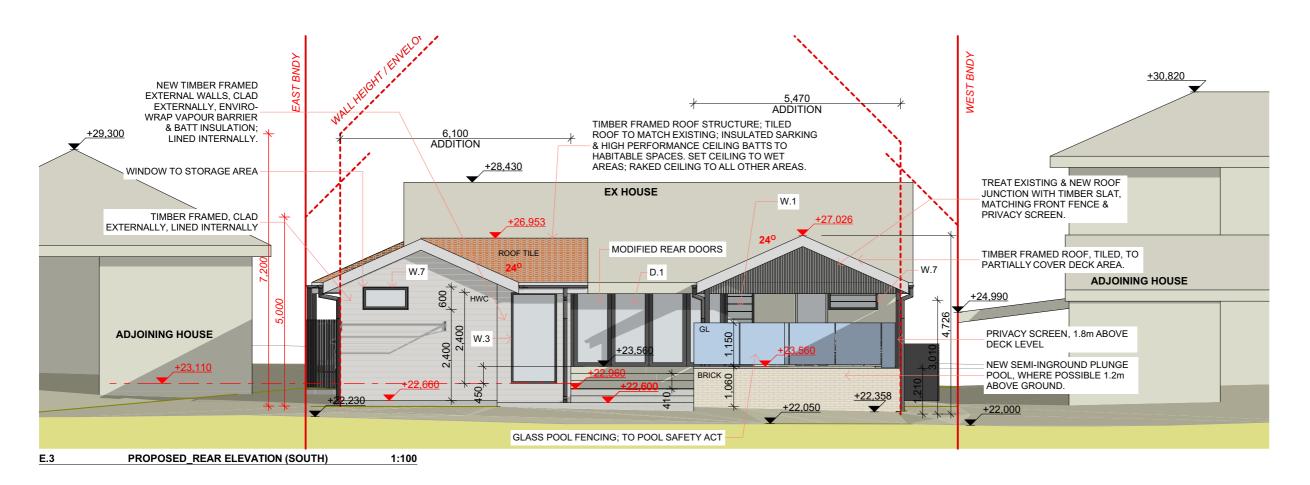


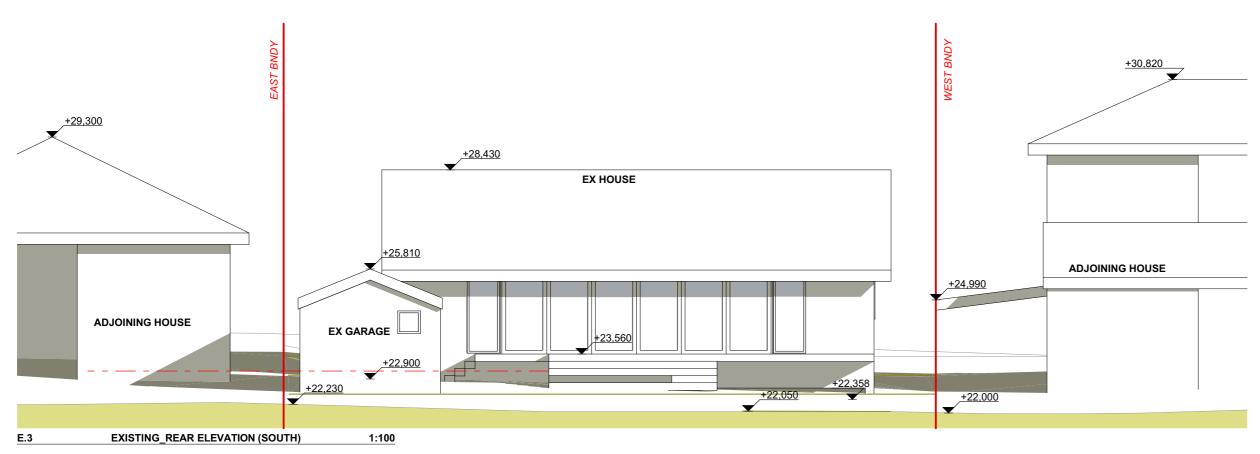
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B A ISSI		SSUED FOR INITIAL REVIEW - CONCEPTS SSUED FOR INITIAL REVIEW ESCRIPTION	24.03.2019 17.03.2019 DATE ISSUE	BY [DESCRIPTION	NOT FOR CONSTRUCTION	NORTHERN BEACHES COUNCIL	COPPRIGHT THIS DESIGN AND THE ASSOCIATED DOCUMENTS ARE SUBJECT TO COPPRIGHT LAWS AND MAY NOT BE REPREDUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM HARGROVES DESIGN CONSULTANTS.	DEBORAH & MATTHEW MILLINER	Date MAR 2019 Title EXISTING & PROPOSED DA-106 D



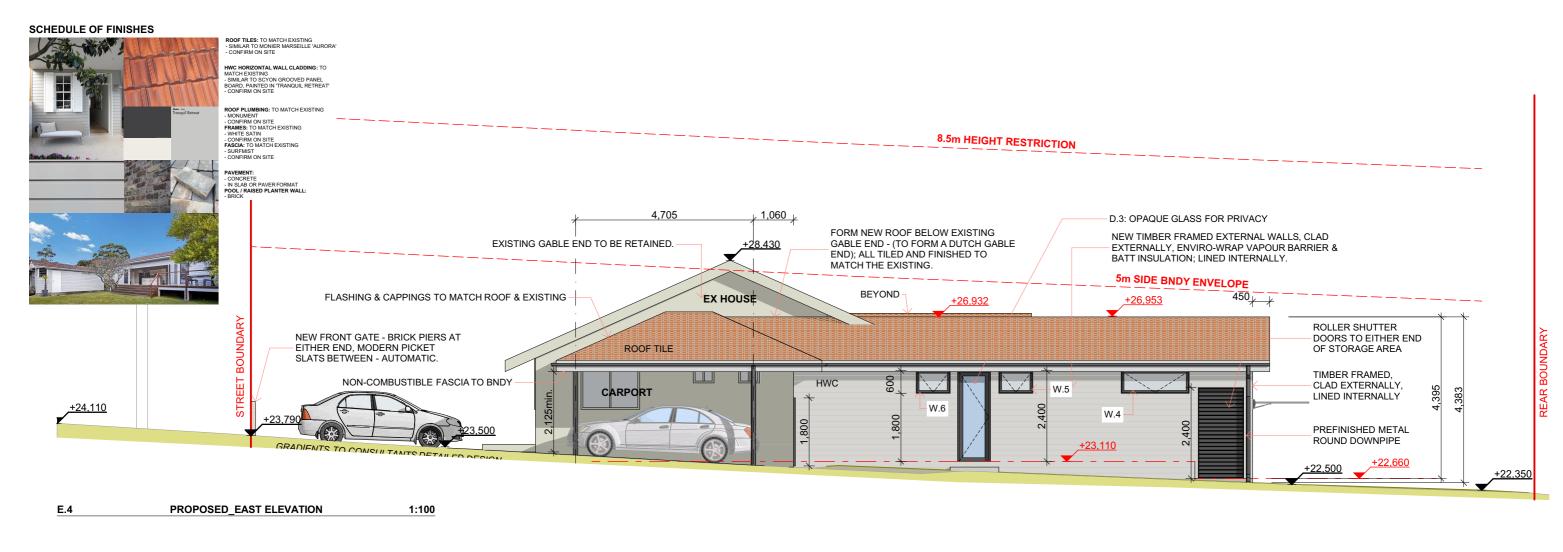


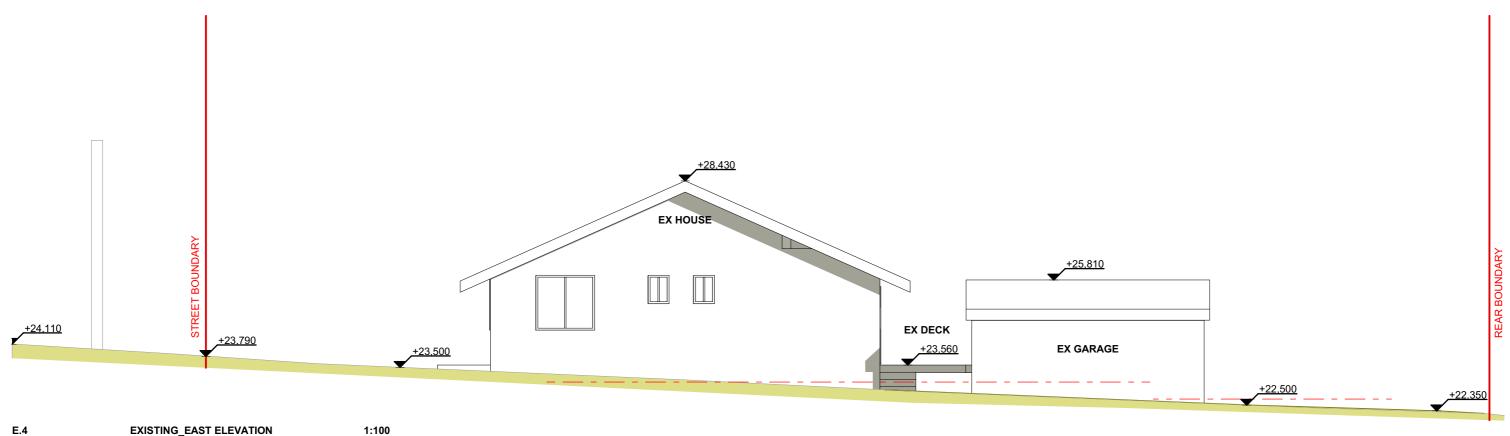
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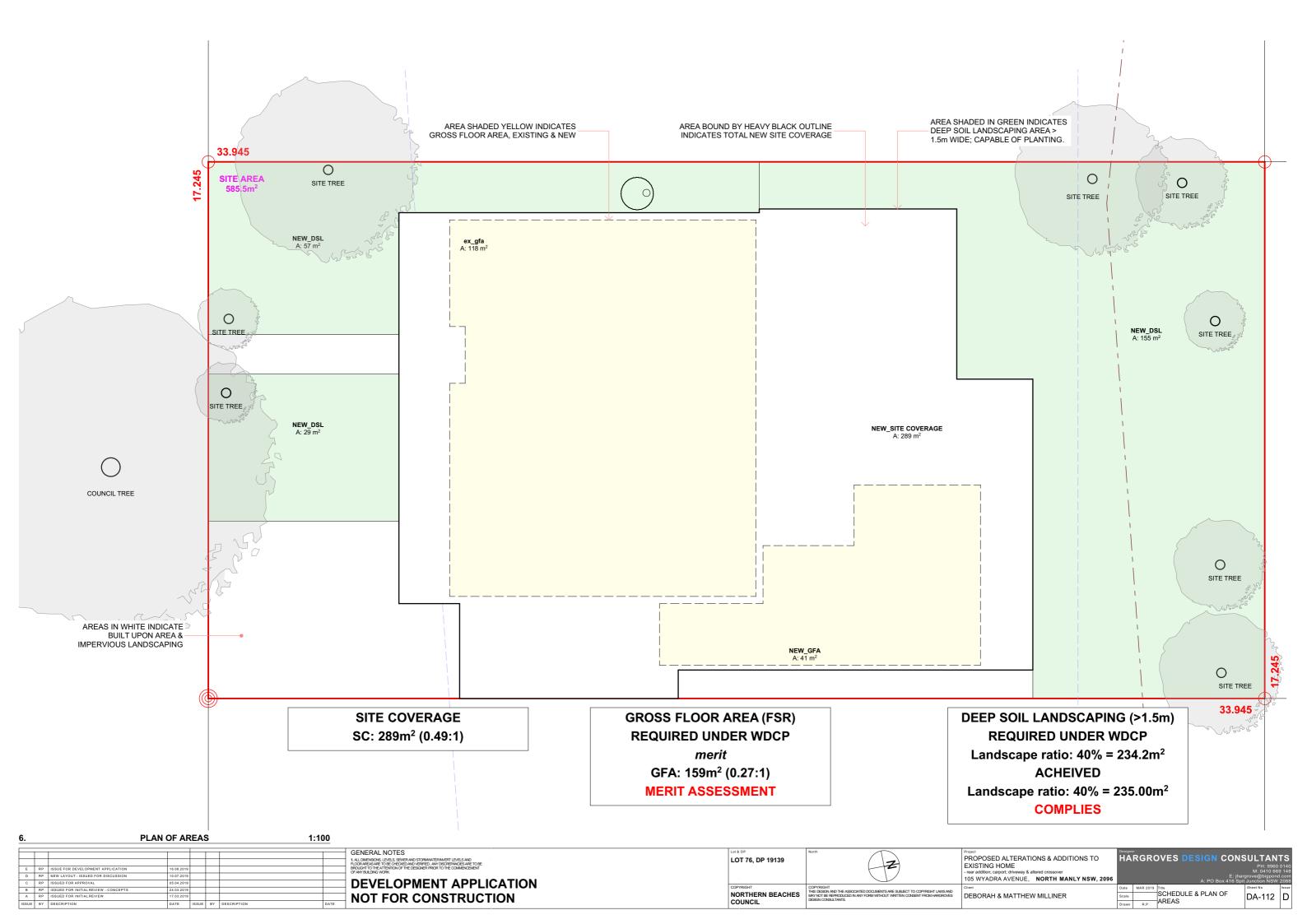


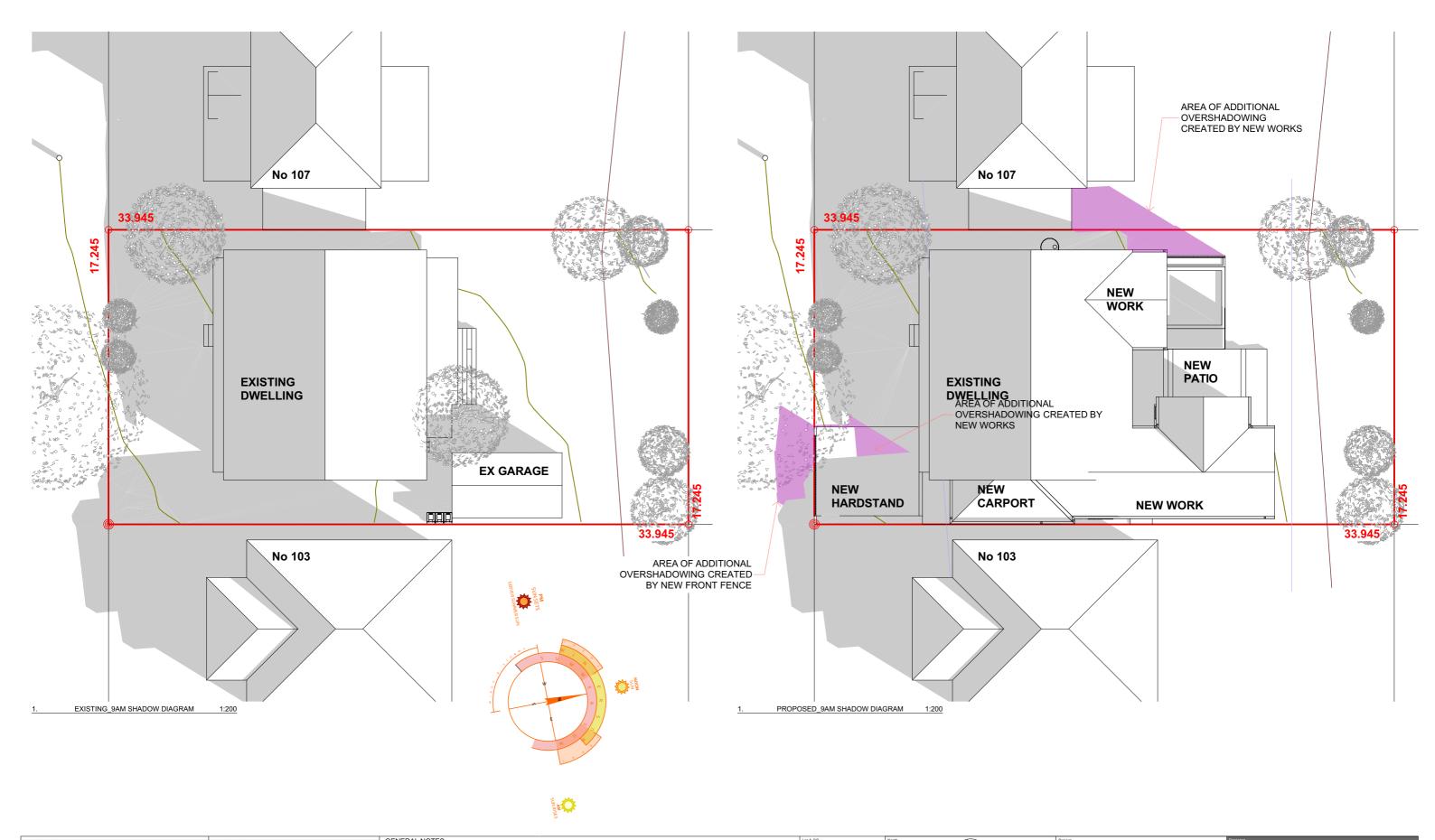
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B RP	ISSUED FOR INITIAL REVIEW - CONCEPTS 24.03.2019			COPYRIGHT	COPYRIGHT THIS DESIGN AND THE ASSOCIATED DOCUMENTS ARE SUBJECT TO COPYRIGHT LAWS AND	Client	Date MAR 2019 Title Sheet No Issue
A RP	ISSUED FOR INITIAL REVIEW 17.03.2019		NOT FOR CONSTRUCTION	NORTHERN BEACHES	MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM HARGROVES DESIGN CONSULTANTS	DEBORAH & MATTHEW MILLINER	NORTH ELEVATION DA-108 D
ISSUE BY	DESCRIPTION DATE	ISSUE BY DESCRIPTION DATE		COUNCIL			Drawn R.P NORTH ELEVATION



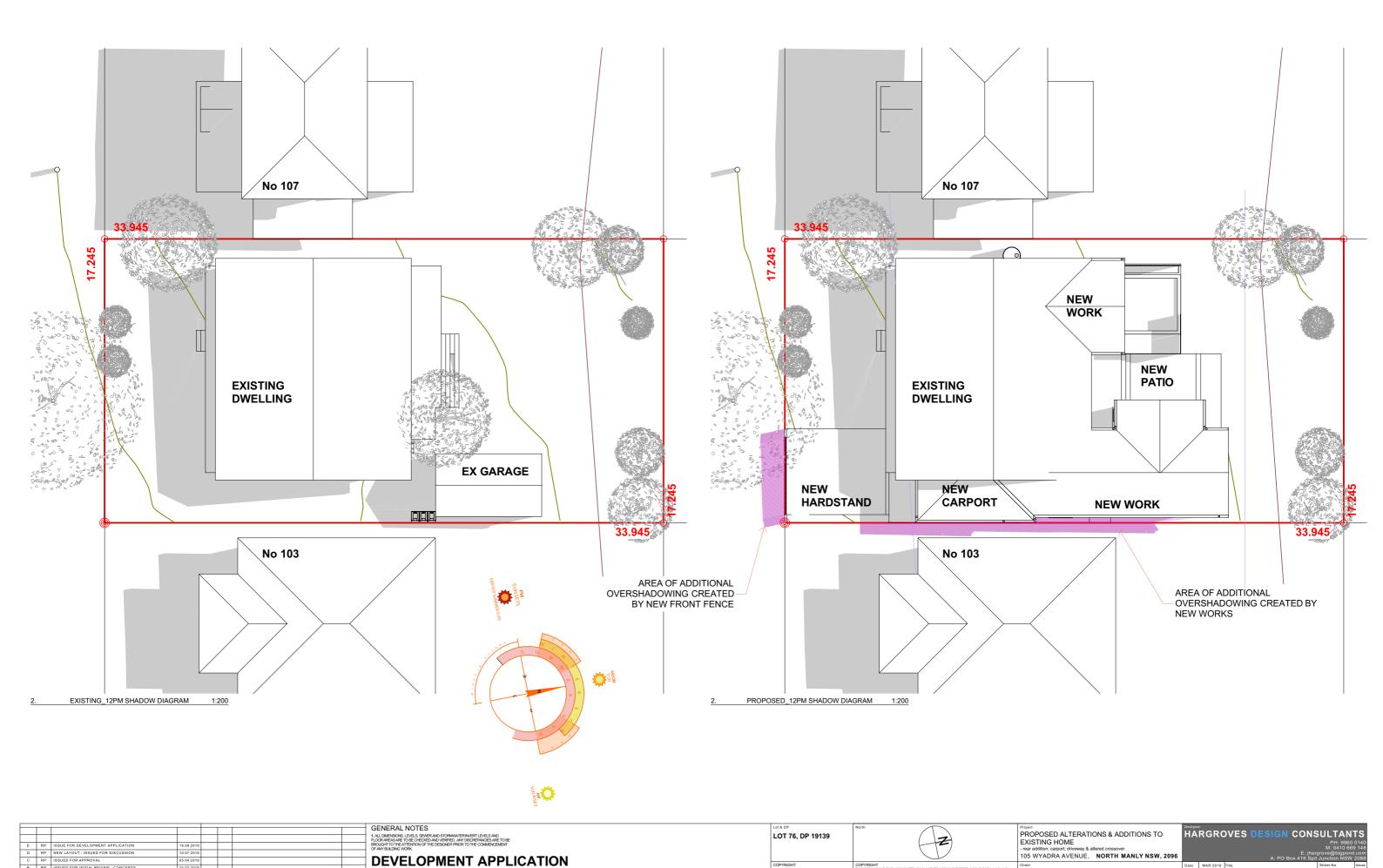


E RP	ISSUE FOR DEVELOPMENT APPLICATION NEW LAYOUT - ISSUED FOR DISCUSSION ISSUED FOR DEPOTVAL	16.08.2019 10.07.2019	GENERAL NOTES 1. ALD DIRECTOR SERVICE SERVICE SERVICES AND DECORATION OF THE CONTROL OF THE CON	LOT 76, DP 19139	North	Project PROPOSED ALTERATIONS & ADDITIONS TO EXISTING HOME - rear addition; carport; driveway & altered crossover 105 WYADRA AVENUE, NORTH MANLY NSW, 2096	Designer HARGROVES DESIGN CONSULTANTS PH: 9960 0140 M: 0410 669 148 E: jhargrove@bigpond.com A: PO Box 416 Spit Junction NSW 2088
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ISSUE BY	DESCRIPTION	DATE ISSUE BY DESCRIPTION DA	NOT FOR CONSTRUCTION	COUNCIL	DESIGN CONSULTANTS.		Drawn R.P EAST ELEVATION





					CLINET VALL INVO I CENTRAL STORMATERIMENT LEVELS AND RUCK REAS ARE TO BE CHEOKED AND VERIFIED. ANY DISCREPANCES ARE TO BE	LOT 76, DP 19139	North	PROPOSED ALTERATIONS & ADDITIONS TO EXISTING HOME	HARGROVES DESIGN CONSULTANTS
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C	RP NE	SSUED FOR APPROVAL	10.07.2019 05.04.2019		DEVELOPMENT APPLICATION	-		105 WYADRA AVENUE, NORTH MANLY NSW, 2096	E: jhargrove@bigpond.com A: PO Box 416 Spit Junction NSW 2088
В	RP IS:	SSUED FOR INITIAL REVIEW - CONCEPTS	24.03.2019	1 1 1		NORTHERN BEACHES	COPYRIGHT THIS DESIGN AND THE ASSOCIATED DOCUMENTS ARE SUBJECT TO COPYRIGHT LAWS AND	Client	Date MAR 2019 Title Sheet No Issue
A	RP IS:	SSUED FOR INITIAL REVIEW	17.03.2019	DESCRIPTION	NOT FOR CONSTRUCTION	COUNCIL	MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM HARGROVES DESIGN CONSULTANTS.	DEBORAH & MATTHEW MILLINER	SHADOW DIAGRAM - 9AM DA-113 D
ISSUE	SY DE	ESCRIPTION	DATE ISSUE BY	DESCRIPTION DATE	_	0000			Drawn R.P

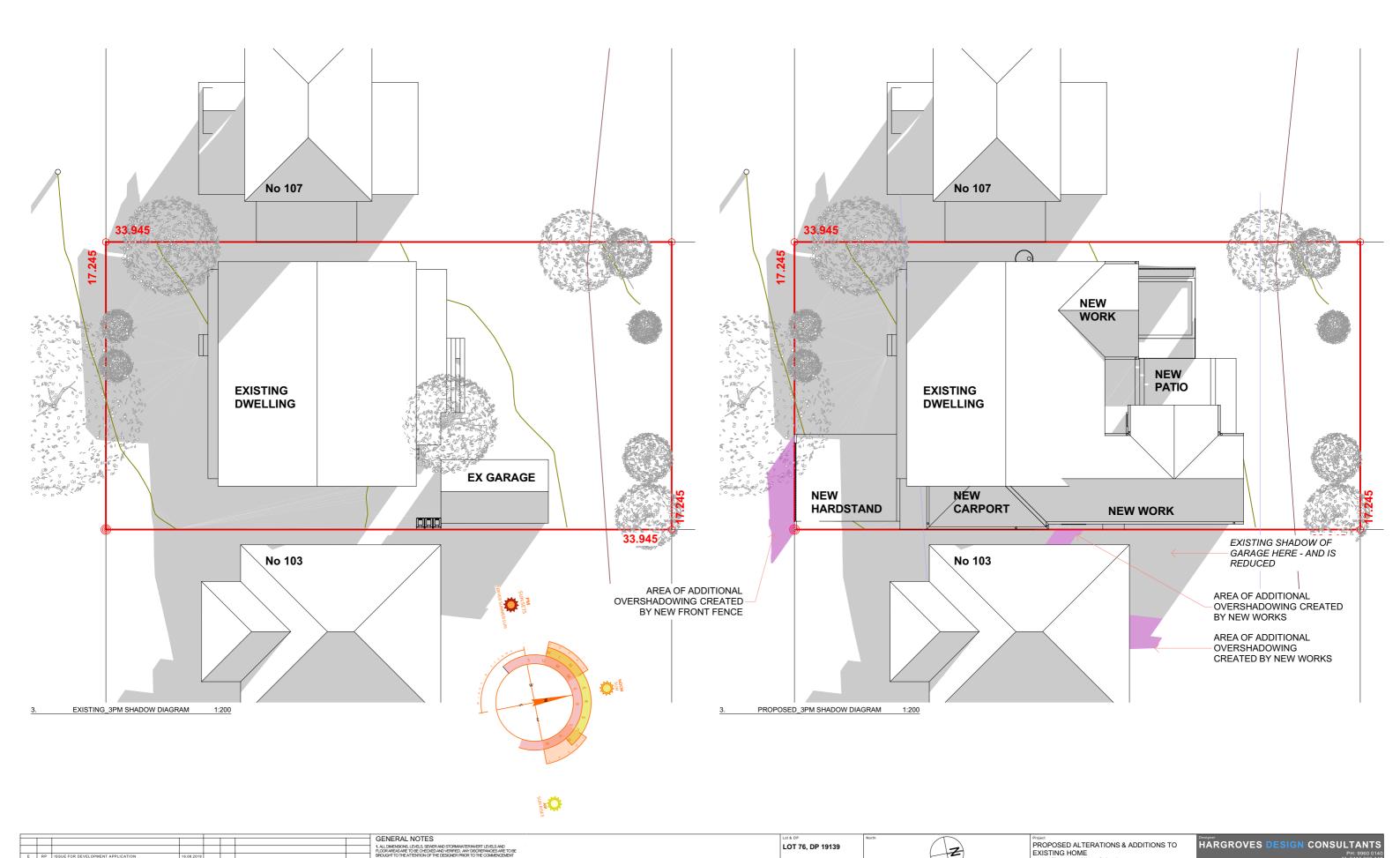


NOT FOR CONSTRUCTION

NORTHERN BEACHES
COUNCIL

SHADOW DIAGRAM - 12PM DA-114 D

DEBORAH & MATTHEW MILLINER



NORTHERN BEACHES
COUNCIL

DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

rear addition; carport; driveway & altered crossover
 105 WYADRA AVENUE, NORTH MANLY NSW, 2096

DEBORAH & MATTHEW MILLINER

SHADOW DIAGRAM - 3PM DA-115 D

DIAGRAM OF SANITARY DRAINAGE Diagram No. 410,946

Municipality of WARRINGAH SEWER AVAILABLE

SYMBOLS AND ABBREVIATIONS 1.P. Induct Pipe M.F. Mica Flap T Tubs K.S. Kitchen Sink W.C. Water Closet Reflux Valve
Creaming Eye
O VERT. Vertical Pipe
V.P. Vent. Pipe
SV.P. Soil Vent. Pipe Boundary Trap Pit
BGI Grease Interceptor
SO Gully
SPT. P. Trap B.W. Bath Waste p.c.c. Down Cast Cowl

KIMERWHITE Bsn. Basin Shr. Shower W.I.P.Wrought Iron Pipe C.I.P.Cast Iron Pipe F.W. Floor Waste W.M. Washing Machine

⊠_{RS} Reflux Sink Existing drainage shown by black lines

Scale: 40 Feet to an inch

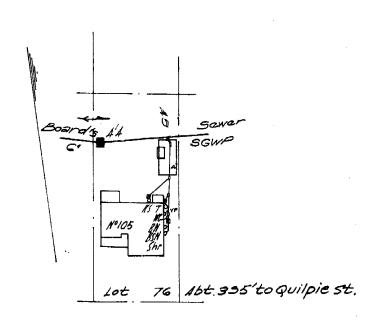
Proposed new drainage shown by full blue lines.

This diagram is the property of the Owner and is to be returned to him on completion of the work.

Subject to application, certificates for drainage and sanitary plumbing will be issued to the owner when the work is completed and passed by the Board's Inspector.

The Bourd accepts no responsibility for the suitability of the diagram in relation to the eventual position of the Board's sewer When the sewer becomes available it will be necessary to apply for a revised diagram.

This work must be carried out in accordance with the Board's By-laws.



MIADRA

AVE

SHEET No. 5908

19 FOR ENGINEER-IN-CHIEF

OFFICE USE ONLY 278/826 DATE FIRST VISIT SUPERV'SN PASSED W.C Designed by Inspector .Bth .Shr Inspector Inspector Date ..8sn Examined by Checked .K,S OutfailT Chief Inspector DrainerPlg Dge.int. Boundary Trap is not

The information in this diagram shows the private wastewater pipes on this property. It may not be accurate or to scale and may not show our pipes, structures or all property boundaries. If you'd like to see these, please buy a Service location print.

STORMWATER NOTES:

- 1 ALL PIPES TO BE 100mm \$\phi\$ UNLESS NOTED OTHERWISE.
- 2 ALL PIPES TO BE UPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE. 3 - ALL PIPES TO BE LAYED AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO
- 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED
- 5 ALL DOWN PIPES TO BE 100mm & UNLESS NOTED OTHERWISE
- 6 DOWN PIPE LOCATIONS ARE INDICATIVE ONLY, LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 7 PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 8 ALL PITS TO BE CAST INSITU OR, IF PRECAST, APPROVED BY ENGINEER. CAST INSITU PITS TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH I NIZ TOP TIE UNLESS NOTED OTHERWISE. CAST INSITU PITS GREATER THAN 1000 DEEP TO BE MINIMUM 900x600 AND TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH NI2 AT 300 EACH WAY UNLESS NOTED OTHERWISE.
- 9 ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 10 ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS
- 11 PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO APPROVED SEDIMENT AND EROSION CONTROL PLAN, EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 12 ALL LEVELS SHOWN ARE TO AHD
- 13 ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 14 ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.
- 15 ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2003 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE.
- 16. UNLESS NOTED OTHERWISE, SUB-SOIL DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3 ALONGSIDE WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER. THIS MAY ALSO INVOLVE TRENCHING INTO THE CLAY OR ROCK SUBGRADE TO DIRECT GROUNDWATER AWAY FROM STRUCTURES.
- 17. IF NOT INDICATED ON PLANS, PROVIDE LEAF CATCHERS TO ALL DOWNPIPES.
- 18. ORIFICE PLATE MUST BE INSTALLED PRIOR TO INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE SITE STORMWATER SYSTEM TO THE ONSITE DETENTION TANK.
- 19. 100mm \$\phi x 3000 LONG TAIL OUT SUBSOIL LINE TO BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS. SUBSOIL LINE TO BE COVERED WITH GEOTEXTILE FILTER SOCK FOR THE FULL LENGTH AND END COVERED.

WARRINGAH COUNCIL ON SITE DETENTION SYSTEM SUMMARY NOTES

STORMWATER TO WARRINGAH COUNCIL POLICY FOR LOW LEVEL PROPERTIES (PDS - POL 136):

STEP 1 - CONNECTION TO EXISTING SYSTEM INADEQUATE STEP 2 - ONSITE ABSORPTION INADEQUATE (ASSUMED DUE TO

LIMITED AREA) STEP 3 - GRAVITY EASEMENT PIPE REFUSED BY LOWER PROPERTY OWNERS

STEP 4 - LEVEL SPREADER INADEQUATE

STEP 5 - ALTERNATIVE DISPOSAL METHOD CHARGED SYSTEM - INADEQUATE ONSITE DETENTION - ADEQUATE

TOTAL SITE AREA 585.5 m^2

DESIGN METHOD USED DRAINS (REFER TO DISK)

PRE DEVELOPMENT IMPERVIOUS AREA 0 m² (STATE-OF-NATURE) POST DEVELOPMENT IMPERVIOUS AREA $321.2 \text{ m}^2 (54.8\%)$

PRE DEVELOPMENT SITE DISCHARGE

5 YR 100 YR

34 l/s POST DEVELOPMENT SITE DISCHARGE

5 YR 100 YR

PORTION OF SITE THROUGH OSD

ORIFICE SIZE

TYPE OF CONTROL

MAXIMUM CONCENTRATED DISCHARGE

TO KERB

DIMENSION OF OSD:

13.75 x 2.4 x 0.6m AVG DEPTH (0.75x1.2m HED CHAMBER)

CONCRETE DRIVEWAY.

ALL EXISTING ROOF DRAINAGE TO BE

BUILDER TO INSPECT PRIOR TO

CONSTRUCTION AND UPGRADE IF

HATCHING DENOTES

300x300 PIT

23.78

DRIVEWAY & CROSSOVER GRADES REFER CIVIL PLANS

BY NB CONSULTING PTY LTD.

EXISTING SERVICES

SL: 23.00 IL: 22.75

LANDSCAPED AREA TO OSD

CHECKED AND UPGRADED AS REQUIRED.

REQUIRED IN ACCORDANCE WITH AS3500,3

VOLUME OF OSD

FOR DRIVEWAY LEVELS REFER CIVIL ACCESS PLANS BY NB CONSULTING PTY LTD

FOR EXISTING CONTOURS AND

LEVELS, REFER TO SURVEY PLAN.

ALL LEVELS AND DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION. 19.7 m³ (NOTE: 19.0 m³ REQUIRED)

300x300

SL: 22.90

IL: 22.65

JUNCTION PIT

23.47

CONCRET

10 1/s (4 1/s FROM OSD

16 1/s (4 1/s FROM OSD)

16 1/5

62 %

N/A

40 mm Ø

BELOW DECKING TANK

LEGEND 100mm & DOWNPIPE TO BE DIRECTED TO OSD VIA A CHARGED SYSTEM 100mm & DOWNPIPE TO BE DIRECTED TO HED CHAMBER VIA GRAVITY SUSPENDED WITHIN TANK APPROXIMATE LOCATION OF EXISTING DOWNPIPE REFER NOTES FFL AND/OR SPOT LEVEL REFER X 24.000 TO ARCHITECT. TO BE CONFIRMED PRIOR TO CONSTRUCTION STORMWATER PIPE FLOW DIRECTION STORMWATER PIPE FALL DIRECTION STORMWATER PIT GDI - GRATED DRAIN REFER DETAILS NEW STORMWATER PIPE INSPECTION OPENING 0 10 OSD TANK (REFER TO DETAILS) OSD = 8600 L

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

> PLANTER BOX DRAINAGE BY OTHERS TO DISCHARGE TO

STORMWATER IN AN APPROVED

SPECIFICATIONS AND DETAILS

POOL

23.110

LAWN / GARDEN

MANNER. REFER ARCHITECT FOR

PROPOSED POOL DRAINAGE TO

OTHERS REFER ARCHITECT FOR

SPECIFICATIONS AND DETAILS

BE DIRECTED TO SEWER BY

NOTE: EXCAVATION AROUND TREES 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.

NOTE: EXISTING STORMWATER SYSTEM EXISTING STORMWATER SYSTEM TO BE UTILISED WHERE ADEQUATE. CHECK AND UPGRADED AS REQUIRED. BUILDER TO INSPECT PRIOR TO CONSTRUCTION AND UPGRADE IF REQUIRED IN ACCORDANCE WITH AS3500.3

CHARGED \$100 AT 1% MIN

FALL TO OSD

ACCESS HATCH SEALED LID

23.560

INTO OSD

HED CHAMBER

CONNECT DOWNPIPE

600x600 ACCESS HATCH SEALED LID

GROUND FLOOR & SITE DRAINAGE PLAN

CHARGED \$100 AT 1% MIN - FALL TO OSD

NOTE: CHARGED SYSTEM

ALL PIPE WORK IN CHARGED SYSTEM TO BE 100mm & uPVC PRESSURE OR SEWER GRADE PIPES WITH ALL JOINTS PRESSURE SEALED TO 500mm ABOVE TOP WATER LEVEL OF OSD TANK.

IF IN DOUBT CONTACT THE ENGINEER

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

450x450

SL: 22.00

IL: 21.50

500 DEEP

DISPERSION TRENCH

Im MIN OFFSET

FROM O/D PIPE

BLEED OUT LINE

LOW POINT IN CHARGED SYSTEM

MANUFACTURERS SPECIFICATIONS DIRECTED TO DISPERSION TRENCH

WITH BLEED OUT LINE TO

APPROXIMATE LOCATION OF EXISTING SEWER.

DEPTHS TO BE CONFIRMED

PRIOR TO CONSTRUCTION.

DISPERSION PIT

ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE BY BUILDER BEFORE COMMENCING WITH WORK

2. FOR GENERAL NOTES REFER TO DRAWING NUMBER: DOI.



NO INVESTIGATION OF UNDERGROUND SERVICES. HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE

DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

CARELESS DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO

NOTES:

- WORKERS AND THE GENERAL PUBLIC
- INCONVENIENCE USERS OF FLECTRICITY GAS, WATER AND COMMUNICATIONS
- LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS
- CAUSE EXPENSIVE FINANCIAL LOSSES
- CUT OFF EMERGENCY SERVICES - DELAY PROJECT COMPLETION TIMES

WHILE THE DAMAGE IS REPAIRED MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100

Engineer

NOT FOR

ISSUED FOR D.A. SUBMISSION ONLY CONSTRUCTION

IF IN DOUBT ASK

DOCUMENT CERTIFICATION Consulting Engineers

STRUCTURAL - CIVIL - STORMWATER - REMEDIAL ALTERATIONS \$ ADDITIONS Design: Drawn: STRUCTURAL - CIVIL - STORMWATER - REMEDIAL AT 105 WYADRA AVE, NORTH MANLY HARGROVES DESIGN CONSULTANTS D.K. A.C.N. 076 121 616 A.B.N. 24 076 121 616 Rick G Wray **Sydney:** Ph: (02) 9984 7000 Fax: (02) 9984 7444 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 Drawing No: BE(Civil), CPEng, MIEAust., NER., RPEQ: 9829 11/07/2019 ISSUED FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION STORMWATER MANAGEMENT **Gold Coast:** Ph: (07) 5631 4744 101058 (Director NB Consulting Engineers) DEBORAH MILLENER D01 Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220 Issue: Description: The copyright of this drawing remains with Northern Beache: Consulting Engineers Pty Ltd. Trading as NB Consulting Enginee DRAINAGE PLAN - SHEET E: nb@nbconsulting.com.au W: www.nbconsulting.com.au

S. O

100mm & DOWNPIPE TO BE DIRECTED TO OSD VIA A CHARGED SYSTEM

APPROXIMATE LOCATION OF EXISTING DOWNPIPE REFER NOTES

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



- 1. ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE BY BUILDER BEFORE COMMENCING WITH WORK.
- 2. FOR GENERAL NOTES REFER TO DRAWING NUMBER: DOI.



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CARELESS DIGGING CAN: - CAUSE DEATH OR SERIOUS INJURY TO

- WORKERS AND THE GENERAL PUBLIC
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 INCONVENIENCE USERS OF ELECTRICITY,
 GAS, WATER AND COMMUNICATIONS

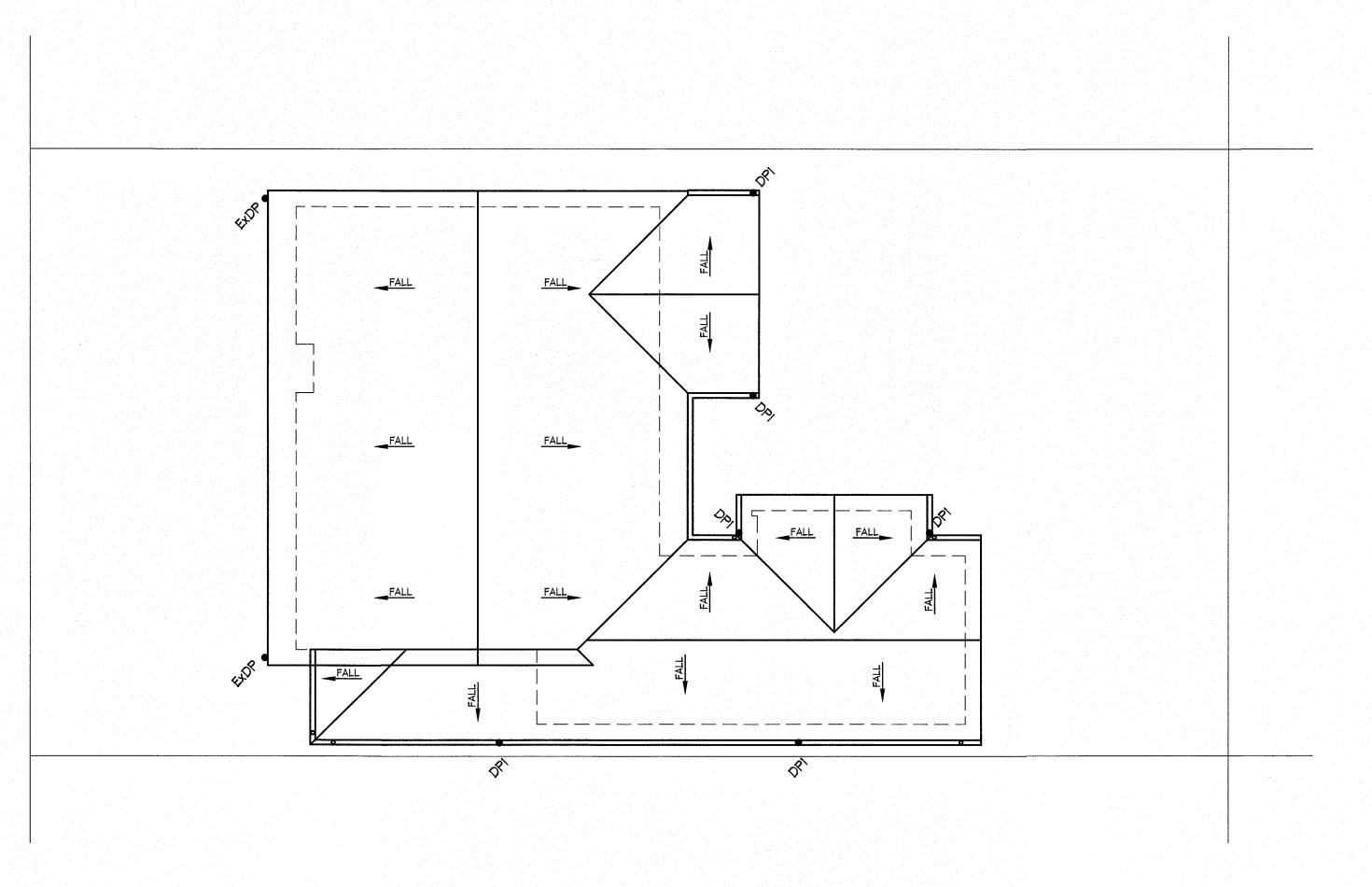
 LEAD TO CRIMINAL PROSECUTION AND
 DAMAGES CLAIMS

 CAUSE EXPENSIVE FINANCIAL LOSSES
 TO BUSINESS

 CUT OFF EMERGENCY SERVICES

- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100



UPPER ROOF DRAINAGE PLAN

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					Date: AG 191 Rick G Wray
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					DOCUMENT CERTIFICATION

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 93.	Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099
ches	Gold Coast: Ph: (07) 5631 4744 Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220 E: nb@nbconsulting.com.au W: www.nbconsulting.com.au

5	Architect:	Pro
L	HARGROVES DESIGN CONSULTANTS	Α
	Client: DEBORAH MILLENER	Dra
١	DEDONATI I II LEINEN	ı

Project: ALTERATIONS & ADDITIONS AT 105 WYADRA AVE, NORTH MANL
STORMWATER MANAGEMENT DRAINAGE PLAN - SHEET 2

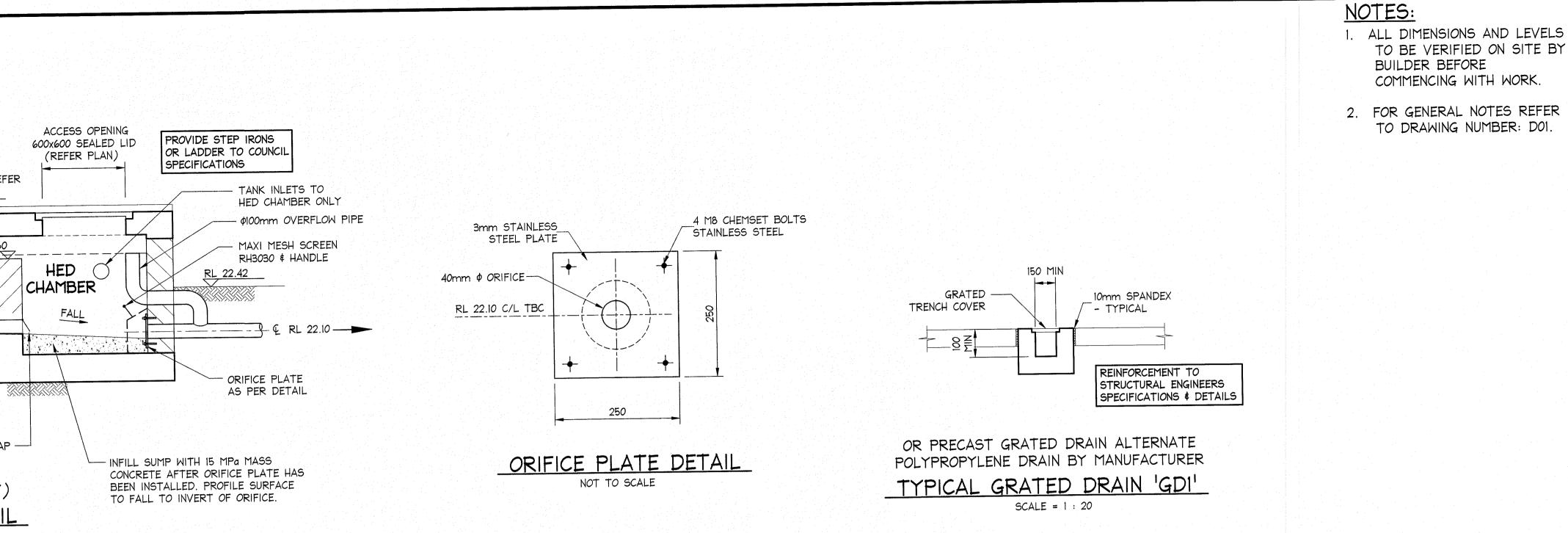
NT 2	Job No: 1010	58	Drawing No:	
MANLY	JUL 2019	D.K.		D.K.
15	Date:	Design:		Drawn:

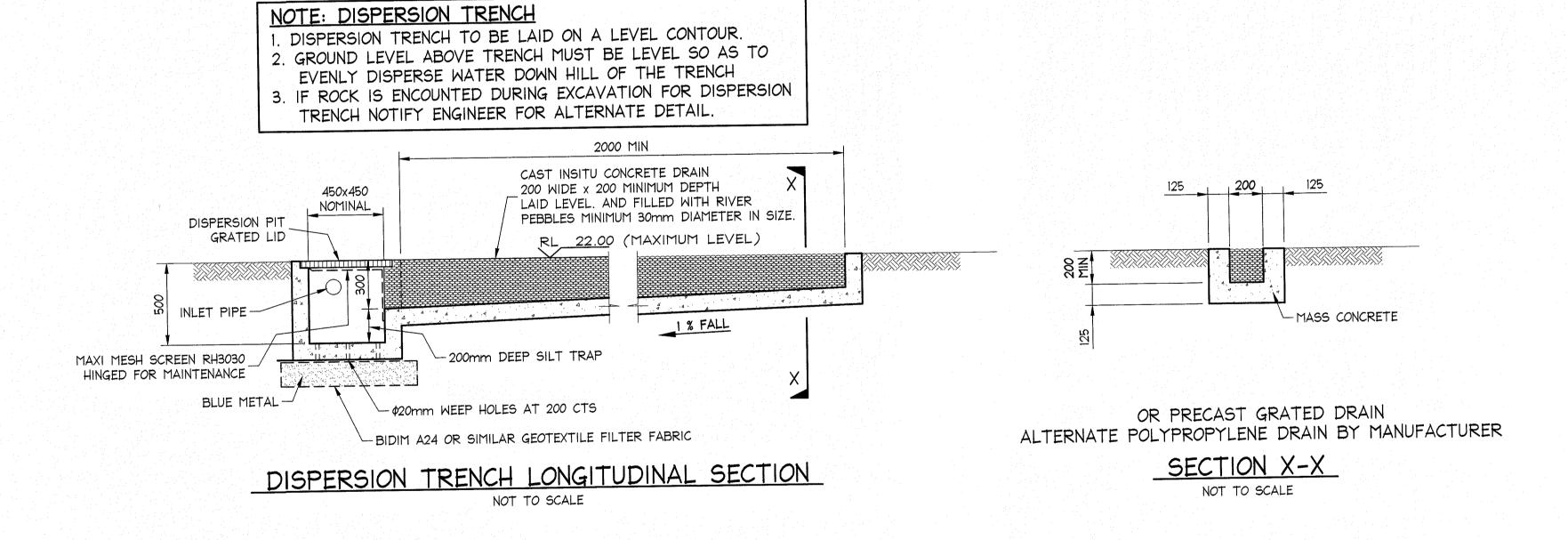
awing No: D02

D.K.

Consulting Engineers

Issue:





DP2

100mm & DOWNPIPE TO BE -

CHAMBER VIA GRAVITY

SUSPENDED WITHIN TANK

DIRECTED TO HED

ACCESS OPENING

600x600 SEALED LID

UNDERSIDE TBC BY

(13.75m x 2.4m WIDE x 0.6m DEEP)

STRUCTURE TO STRUCTURAL

ENGINEERS DETAILS. TANK VENTILATION TO ARCHITECTS DETAILS.

(OSD DIAGRAMMATIC ONLY)

OSD SECTION DETAIL

STRUCTURAL ENGINEER

FFL TBC REFER

_____RL_22.60

ONE WAY FLAP -

RL 22.1

ARCHITECT

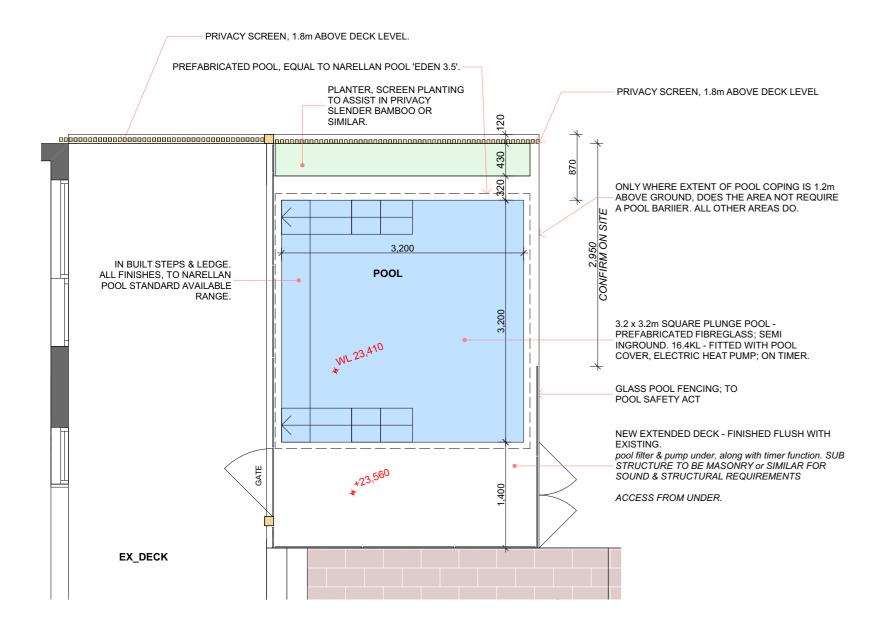
(REFER PLAN)

RL 22.20

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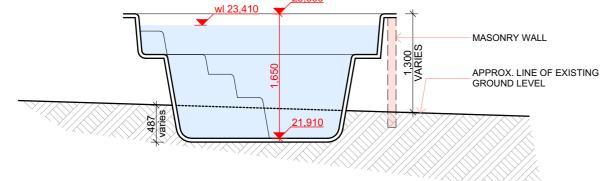
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ı										
l	<u> </u>						Project: ALTERATIONS & ADDITIONS	Date:	Design:	Drawn:
				DOCUMENT CERTIFICATION	Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIAL	HARGROVES DESIGN CONSULTANTS		NI Y JUL 2019	D.K.	D.K.
				Data Ally (G'	A.C.N. 076 121 616 A.B.N. 24 076 121 616		AT 105 MIADRA AVE, NORTH TIA			Barrian Nati
				Rick G Wray	Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099	Client:	Drawing Title:	Job No:		Drawing No:
	11/07/2019 A	ISSUED FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION		BE(CIVII), CPENG, MIEAUST., NER., RPEGE 10275. (Director NB Consulting Engineers)	Gold Coast: Ph: (07) 5631 4744	DEBORAH MILLENER	SECTIONS & DETAILS	1010	/ ウ の	D03
		Description:	By: Review	The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers	- Louis and the same of Manager phooned thing com all					





POOL PLAN



1:50

SECTION - no fence SECTION - fence 1:50

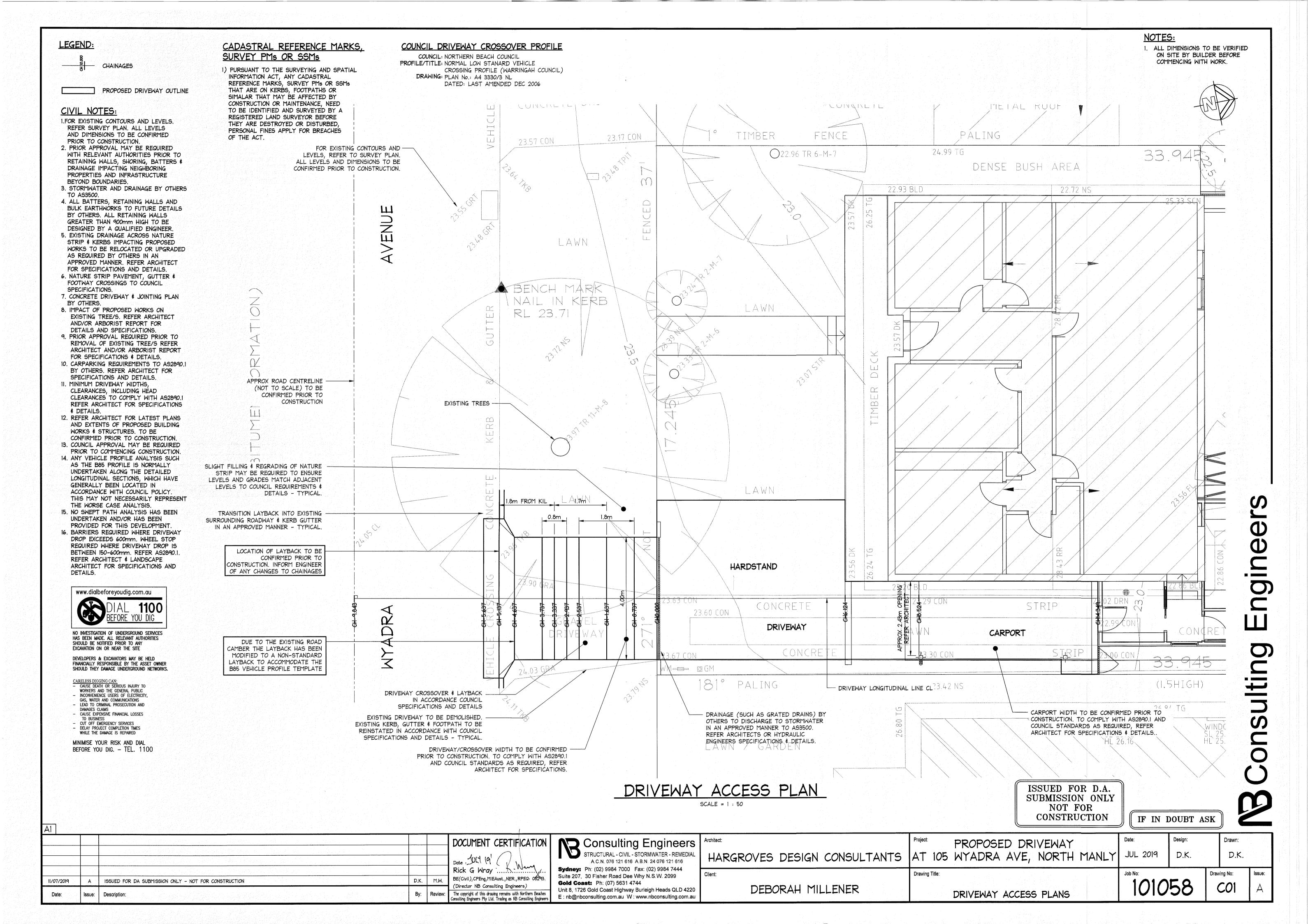
	R R	RP ISSUE FOR DEVELOPMENT APPLICATION RP NEW LAYOUT ISSUED FOR DISCUSSION RE ISSUED FOR APPROVAL	18.08.2019 10.07.2019		GENERAL NOTES 1. ALL DIMENSIONAL LEVELS, SEMER AND STORMWITER MERT LEVELS AND PLOOR AREAS ARE TO BE CONTRACTOR TO BE CONTRACTOR OF THE DESIGNER PRIOR TO THE COMMINICATION OF THE DESIGNER PRIOR TO THE COMMINICATION OF THE DESIGNER PRIOR TO THE COMMINICATION DEVELOPMENT APPLICATION	LOT 76, DP 19139	North	Project PROPOSED ALTERATIONS & ADDITIONS TO EXISTING HOME - rear addition; carport; driveway & altered crossover 105 WYADRA AVENUE, NORTH MANLY NSW, 2096	Designer HARGROVES DESIGN CONSULTANTS PH: 9960 0140 M: 0410 669 148 E: hargrove@bigpond.com A: PO Box 416 Spt Junction NSW 2088
185	R	RP ISSUED FOR INITIAL REVIEW - CONCEPTS RP ISSUED FOR INITIAL REVIEW BY DESCRIPTION	24.03.2019 17.03.2019	DESCRIPTION DATE	NOT FOR CONSTRUCTION	COPYRIGHT NORTHERN BEACHES COUNCIL	COPYRIGHT THE DESIGN AND THE ASSOCIATED DOCUMENTS ARE SUBJECT TO COPYRIGHT LAWS AND MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM HARGROVES DESIGN CONSULTANTS.	DEBORAH & MATTHEW MILLINER	Date MAR 2019 Title Scale POOL PLAN & SECTIONS DA-118 D

POOL BARRIER, GLASS SAFETY FENCE

APPROX. LINE OF EXISTING

MASONRY WALL

GROUND LEVEL



COUNCIL DRIVEWAY CROSSOVER PROFILE

COUNCIL: NORTHERN BEACH COUNCIL PROFILE/TITLE: NORMAL LOW STANARD VEHICLE CROSSING PROFILE (WARRINGAH COUNCIL) DRAWING: PLAN No.: A4 3330/3 NL DATED: LAST AMENDED DEC 2006

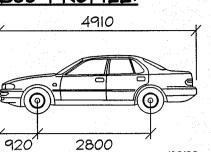
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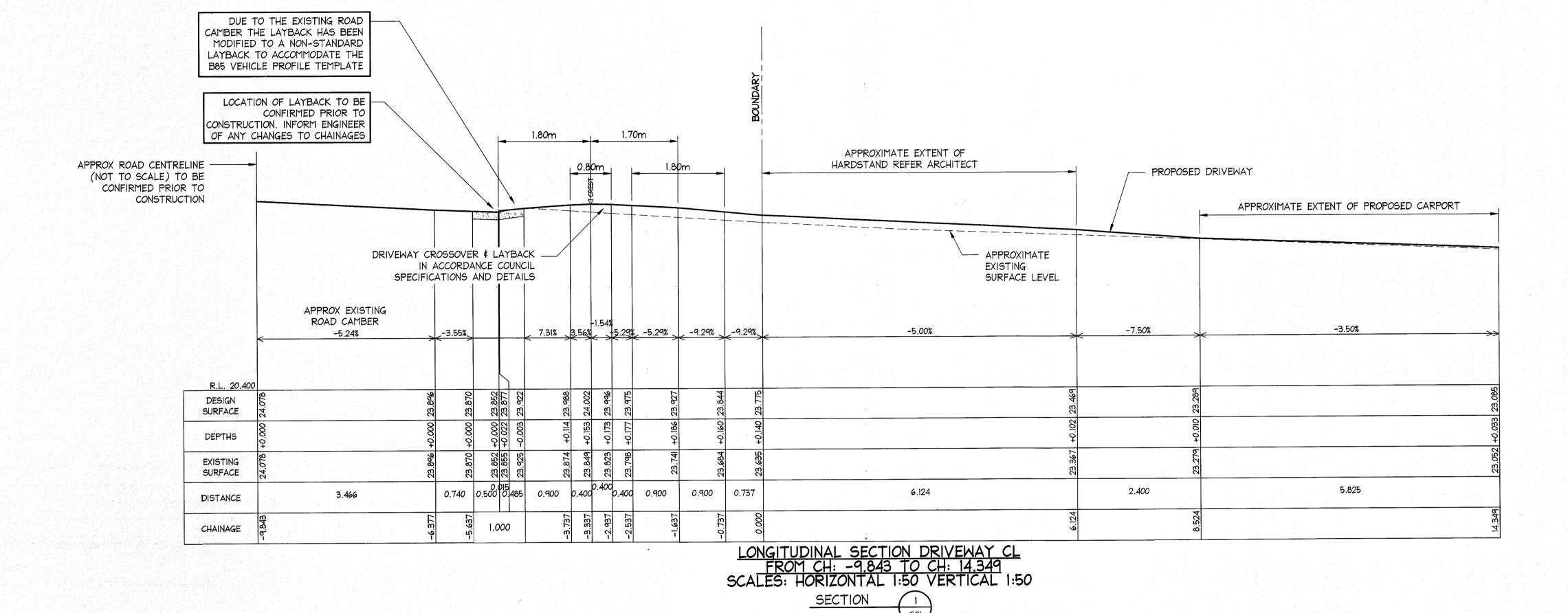




Width Track Steering Angle

: 1870 : 1770 : 34.1

Lock to Lock Time : 6.0



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Date:		Design:		Drawn:			
11 13	0010			5 2			

Consulting Engineers
STRUCTURAL - CIVIL - STORMWATER - REMEDIAL
A.C.N. 076 121 616 A.B.N. 24 076 121 616 PROPOSED DRIVEWAY DOCUMENT CERTIFICATION HARGROVES DESIGN CONSULTANTS AT 105 WYADRA AVE, NORTH MANLY JUL 2019 D.K. **Sydney:** Ph: (02) 9984 7000 Fax: (02) 9984 7444 Drawing No: Drawing Title: Suite 207, 30 Fisher Road Dee Why N.S.W. 2099 101058 C02 ISSUED FOR DA SUBMISSION ONLY - NOT FOR CONSTRUCTION **Gold Coast:** Ph: (07) 5631 4744 11/07/2019 DEBORAH MILLENER (Director NB Consulting Engineers) LONGITUDINAL SECTIONS - SHEET 1 Unit 8, 1726 Gold Coast Highway Burleigh Heads QLD 4220 The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers Issue: Description: E: nb@nbconsulting.com.au W: www.nbconsulting.com.au