

140 OCEAN STREET, NARRABEEN NSW

DRAWING LIST:

DA000 - COVER SHEET

DA004 - DEMOLITION PLAN

DA005 - SITE ANALYSIS

DA006 - SHADOW DIAGRAMS

DA009 - SITE LAYOUT PLAN

DA010 - LANDSCAPE PLAN

DA101 - GROUND FLOOR PLAN

DA102 - LEVEL 01 PLAN

DA103 - ROOF PLAN

DA105 - ELEVATION NORTH & SOUTH

DA106 - ELEVATION EAST & WEST

DA110 - SECTION AA & BB

DA200 - EXTERNAL FINISHES

BASIX & NATHERS:

EI	Concrete slab on ground				
Floors	Concrete between levels, no insulation required				
	Suspended concrete floor with R1.9 insulation				
Walls	External walls:				
	150 mm Concrete wall with R2.5 insulation (insulation only value) to the single dwelling H1				
	150 mm Concrete wall with R2.0 insulation (insulation only value) to the units Apt 01 & Apt 02				
	External colour				
	Medium colour modelled (0.475 <sa<0.7)< td=""></sa<0.7)<>				
	Walls with-in dwellings:				
	Plasterboard on studs, no insulation required				
	Inter-tenancy walls:				
	150mm Concrete panel to walls adjacent to neighbours, no insulation required				
Windows	Aluminium framed glazing to the units Apt 01 & Apt 02:				
	Group A – awning + bifold + casement windows + hinged glazed doors				
	U-value: 4.80 (equal to or lower than) SHGC: 0.51 (±10%)				
	Group B – sliding doors/windows + fixed glazing + louvered windows				
	U-value: 4.80 (equal to or lower than) SHGC: 0.59 (±10%)				
	Aluminium framed performance glazing to the single dwelling H1:				
	Group A – awning + bifold + casement windows + hinged glazed doors				
	U-value: 4.30 (equal to or lower than) SHGC: 0.47 (±10%)				
	Group B – sliding doors/windows + fixed glazing + louvered windows				
	U-value: 4.30 (equal to or lower than) SHGC: 0.53 (±10%)				
	Given values are AFRC, total window system values (glass and frame)				

Ceilings	Plasterboard ceiling. R4.0 insulation (insulation only value) where roof above
	Plasterboard ceiling, no insulation where neighbouring units are above
	Note: All ceiling penetrations have been modelled in accordance with NatHERS protocols, all downlights are assume sealed LED downlights, one every 2.5m2.
Roof	Concrete roof with water proofing membrane, no insulation required.
	External colour
	Medium (0.47>SA<0.7)
Floor Coverings	Tiles throughout
Alternative water	Tank size: 3,000L, collecting from at least 100m2 roof area
	Connected to outdoor tap for irrigation of landscaping common and private
Hot water system	Electric heat pump – air sourced - 26 to 30 STCs
Heating &	All units to have individual, single phase, reverse cycle air conditioning to living areas and
Cooling	none to bedrooms.
19-40	A minimum efficiency of 3.0 stars is required for cooling and heating
Alternative energy	2.0 KW Photovoltaic for the dwelling.
Appliances to	3 star water and energy rating to dish washers and clothes washer
multi- units	3 star water energy rating to clothes dryer
Ventilation	Kitchen - Individual fan, externally ducted to roof or façade, manual on/off switch
	Bathrooms - Individual fan, externally ducted to roof or façade, interlocked to light
	Laundry - Individual fan, externally ducted to roof or façade, interlocked to light
Others	Gas Cooktop & Electric oven
	Well-ventilated fridge space
	Air conditioning day-night zoned between bedrooms and living areas

Rev	Description	Date
Α	DRAFT DA	03/12/19
	ISSUED FOR DA	19/12/1

JOHN O'BRIEN ARCHITECT & LANDSCAPE CONSULTANT

JACEK BANASIEWICZ MSc MRIAI RIBA

MISSIONARY SISTERS OF 140 OCEAN STREET, NARRABEEN BLESSED VIRGIN MARY

CHECKED BY DRAWN BY

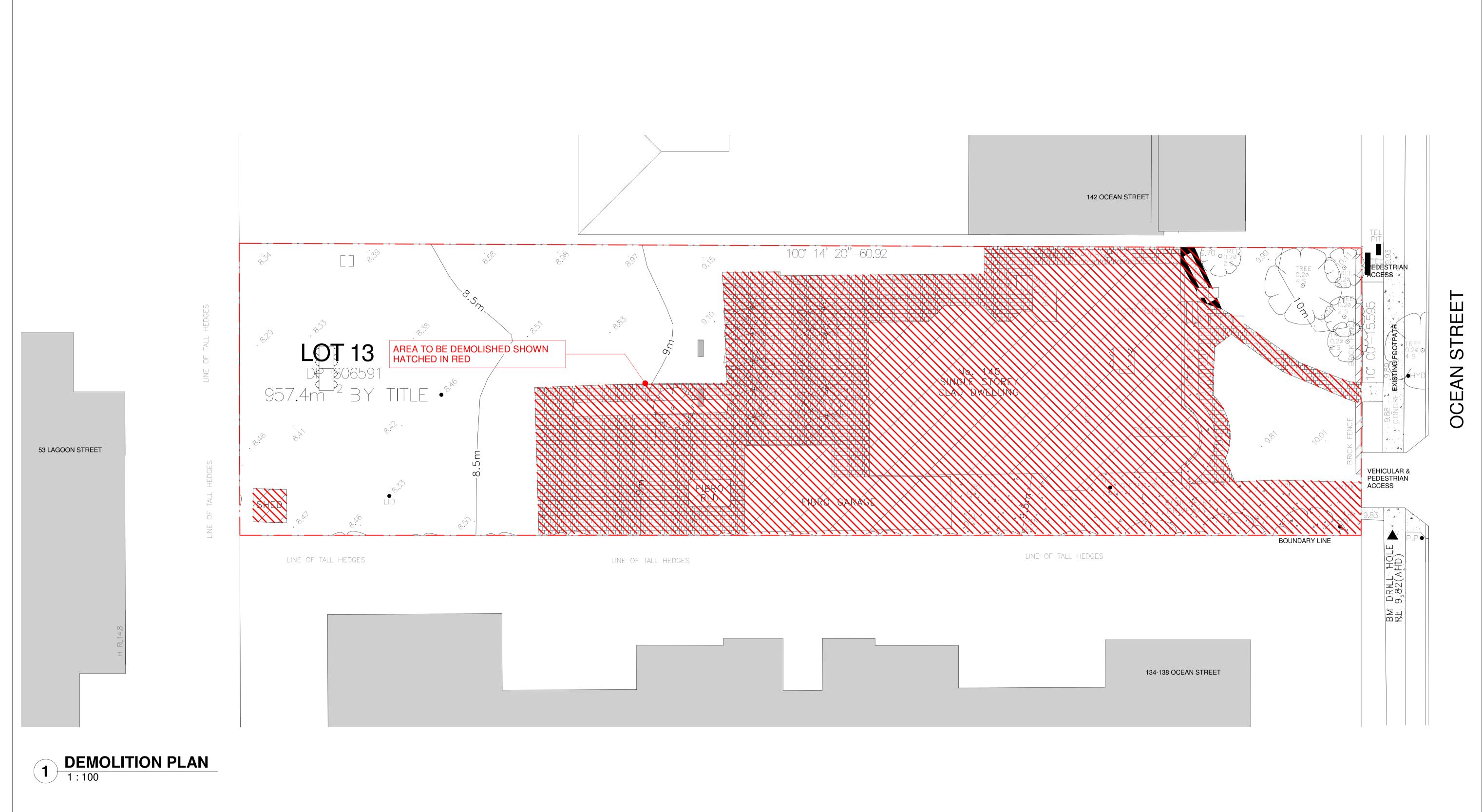
CLIENT

DA000

COVER SHEET

SCALE (@ A1) PROJECT NUMBER 2019_002 DRAWING NUMBER

DATE

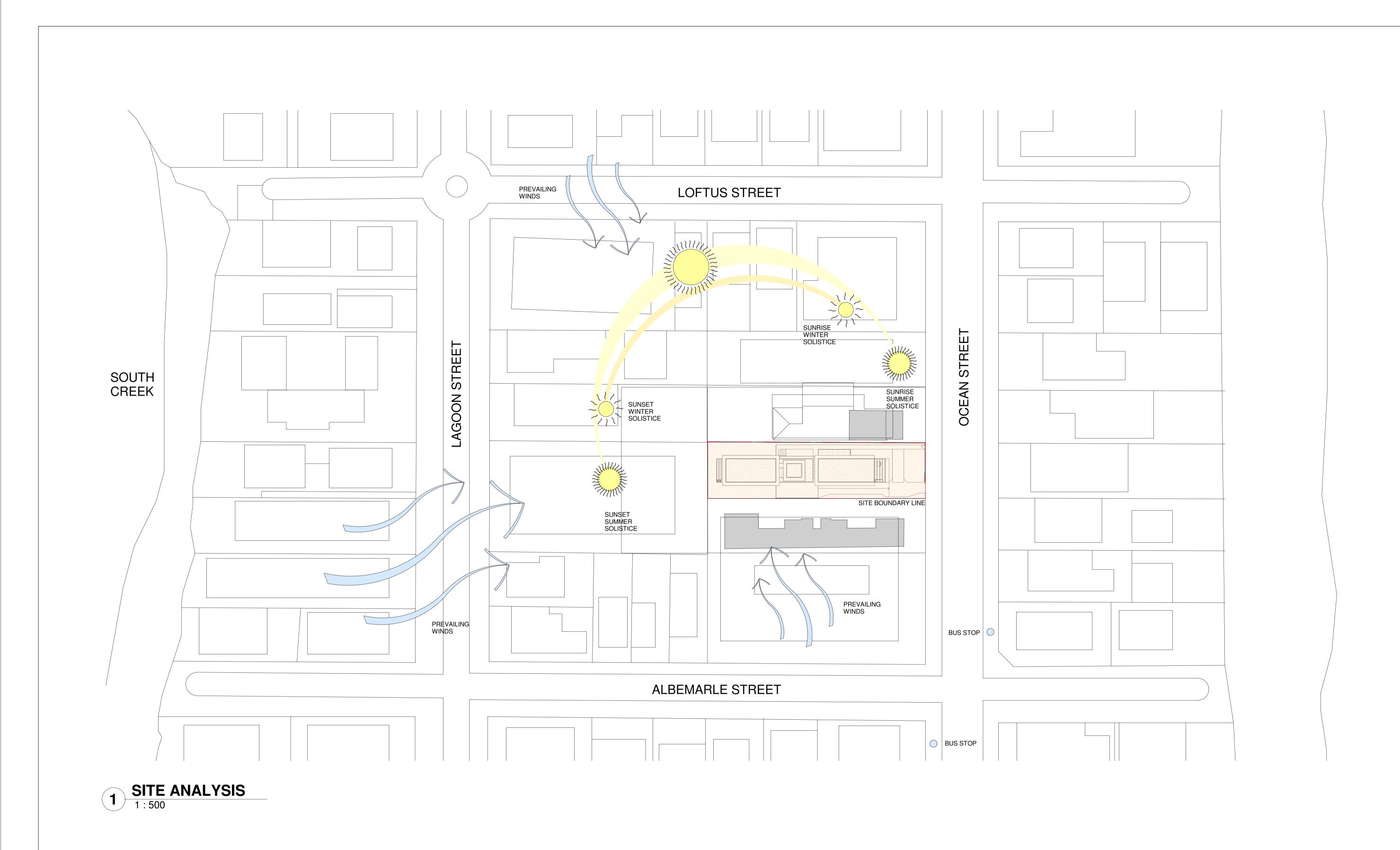




Description	Date
DRAFT DA	03/12/19
ISSUED FOR DA	19/12/19
	DRAFT DA

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PROJECT		CLIENT				
140 OCEAN STREET, NARRABEEN	MISSIONARY SISTERS OF BLESSED VIRGIN MARY					
TITLE		drawn by JB	CHECKEI JO'B	O BY	DATE 11/11/1	9
DEMOLITION PLAN		SCALE (@ A1) PROJECT 2019_00			NUMBER 2	
		DRAWING NUMBER DA004				REV B

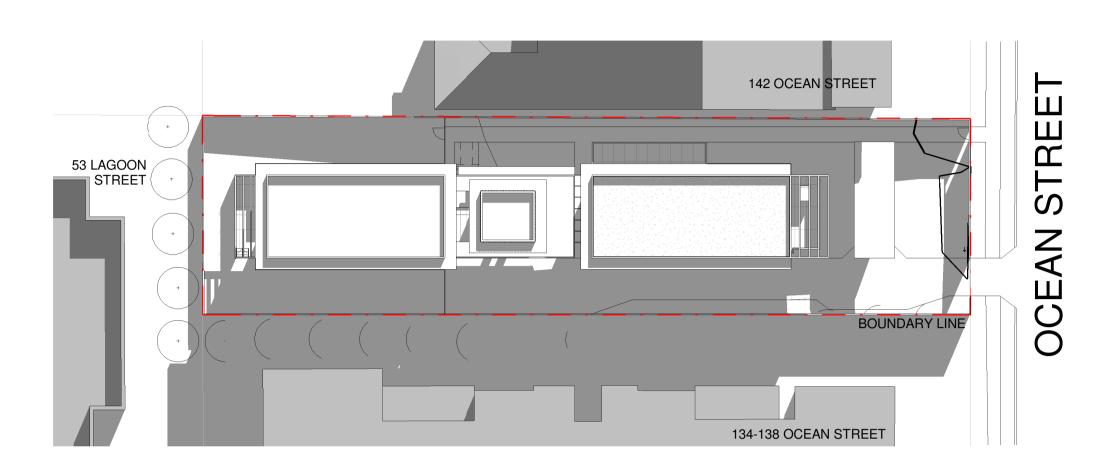


MAP UNDERLAY BASED ON GOOGLE MAPS	Rev	Description	Date
	Α	DRAFT DA	03/12/19
	В	ISSUED FOR DA	19/12/19

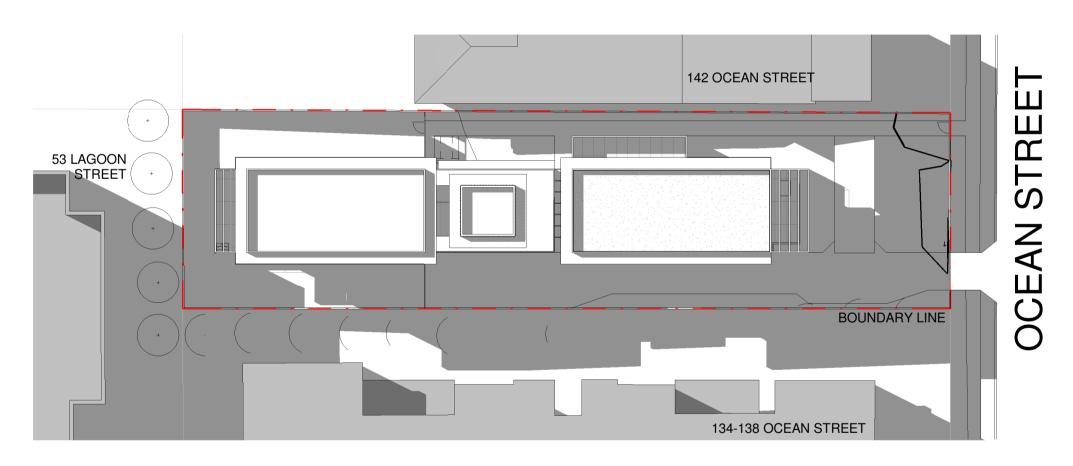
JOHN O'BRIEN ARCHITECT & LANDSCAPE CONSULTANT	
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		PROJECT	CLIENT
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		TITLE	DRAWN BY JB
EK BANASIEWICZ MSc MRIAI RIBA MAIL: JACEK.BANASIEWICZ@YAHOO.COM MOBILE: 0415 869 812		SITE ANALYSIS	SCALE (@ A1) 1:500
			DA005

	CLIENT					
AN STREET, NARRABEEN	MISSIONARY SISTERS OF BLESSED VIRGIN MARY					
	DRAWN BY JB	СНЕСКЕ ЈО'В	D BY	DATE 11/11/1	9	
SITE ANALYSIS	SCALE (@ A1) 1 : 500		PROJECT NUMBER 2019_002			
	DRAWING NUMBER				REV	



SHADOW DIAGRAM 21st JUN 9.00AM
1:300



STREET

BOUNDARY LINE

BOUNDARY LINE

134-138 OCEAN STREET

2 SHADOW DIAGRAM 21st JUN 12.00PM

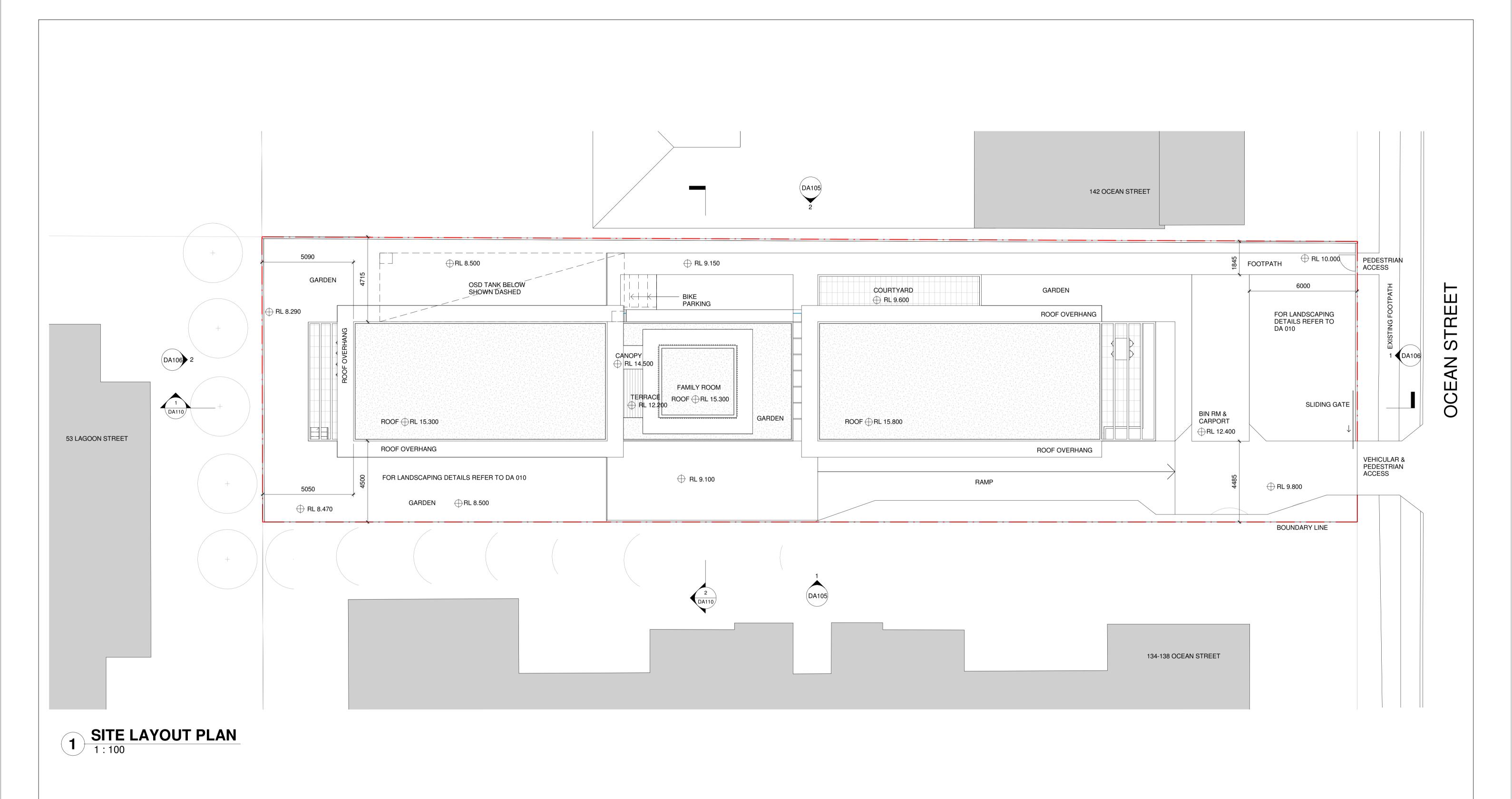


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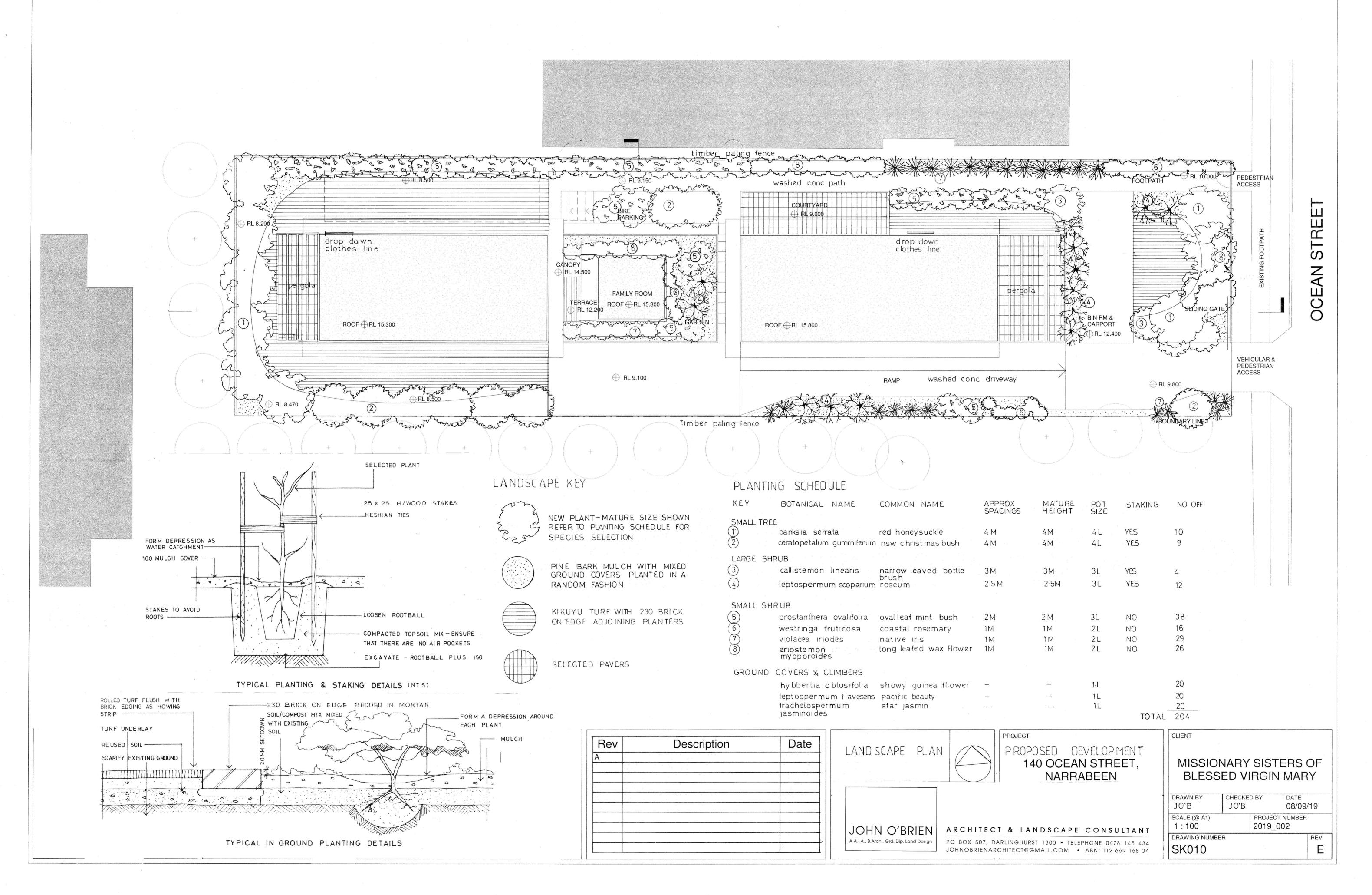


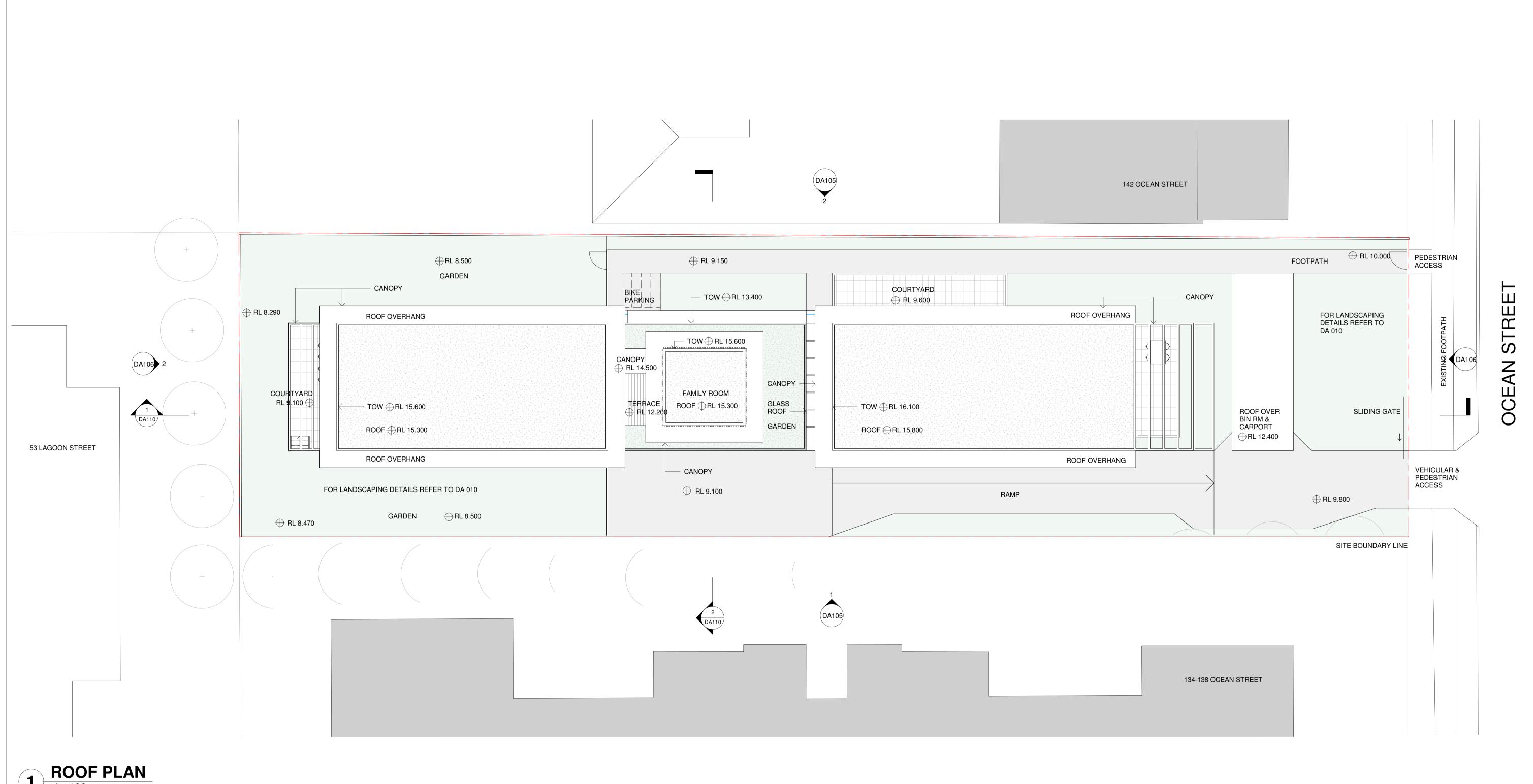
JACEK BANASIEWICZ	MSc MRIAI RIBA	I	MAIL: JACEK.BANASIEWICZ@YAHOO.COM MOBILE: 0415 869 812	

PROJECT	CLIENT				
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TITLE	JB			DATE 13/12/1	9
SHADOW DIAGRAMS	SCALE (@ A1) 1:300	, ,			
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Rev Descri	ption Date 03/12/19 19/12/19	JOHN O'BRIEN A.A.I.A., B.Arch., Grd. Dip. Land Design PO BOX 507, DARLINGHURST 1300 • TELEPHONE 0478 145 434 JOHNOBRIENARCHITECT@GMAIL.COM • ABN: 112 669 168 04	140 OCEAN STREET, NARRABEEN	MISSIONARY SISTERS OF BLESSED VIRGIN MARY	
		JACEK BANASIEWICZ MSc MRIAI RIBA MAIL: JACEK BANASIEWICZ@YAHOO.COM MOBILE: 0415 869 812	SITE LAYOUT PLAN	DRAWN BY JB SCALE (@ A1) 1:100 DRAWING NUMBE DA009	CHECKED BY DATE 08/09/19 PROJECT NUMBER 2019_002 REV

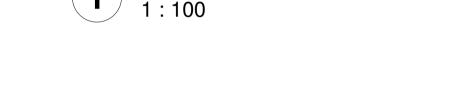




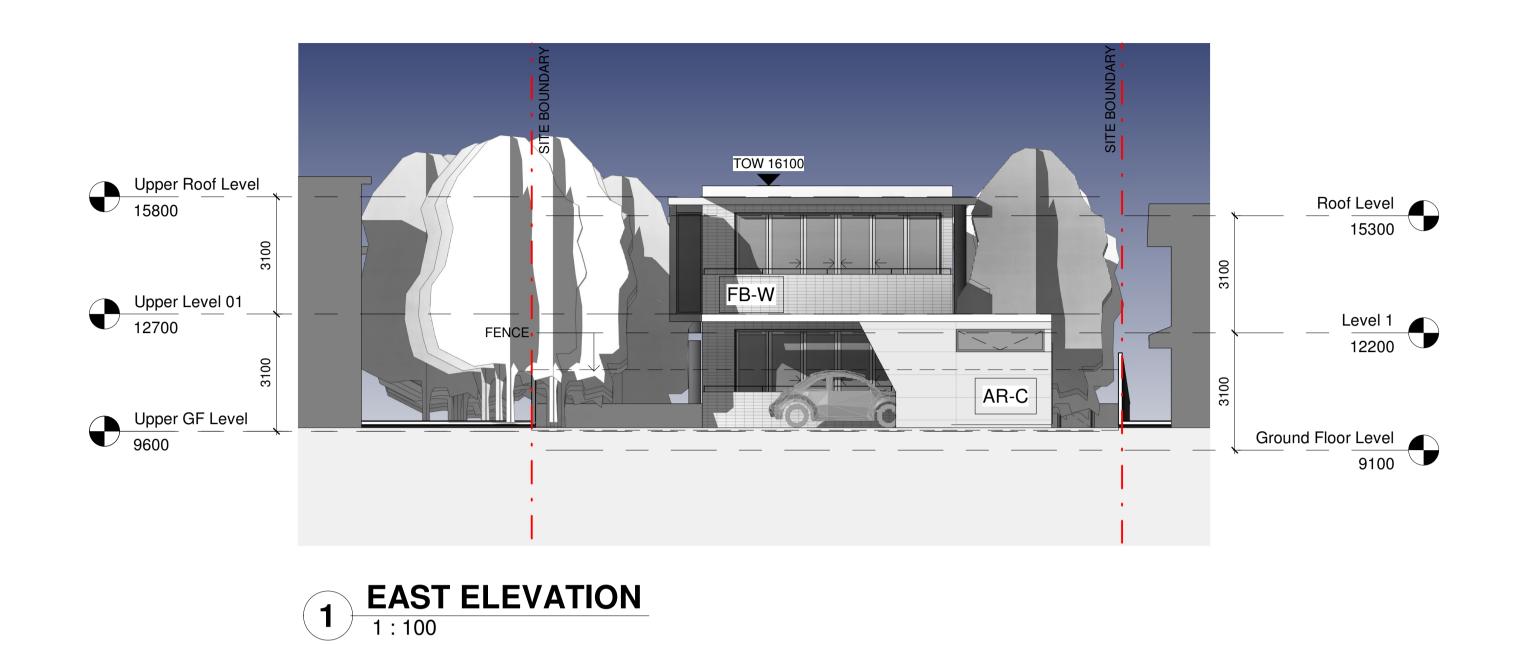
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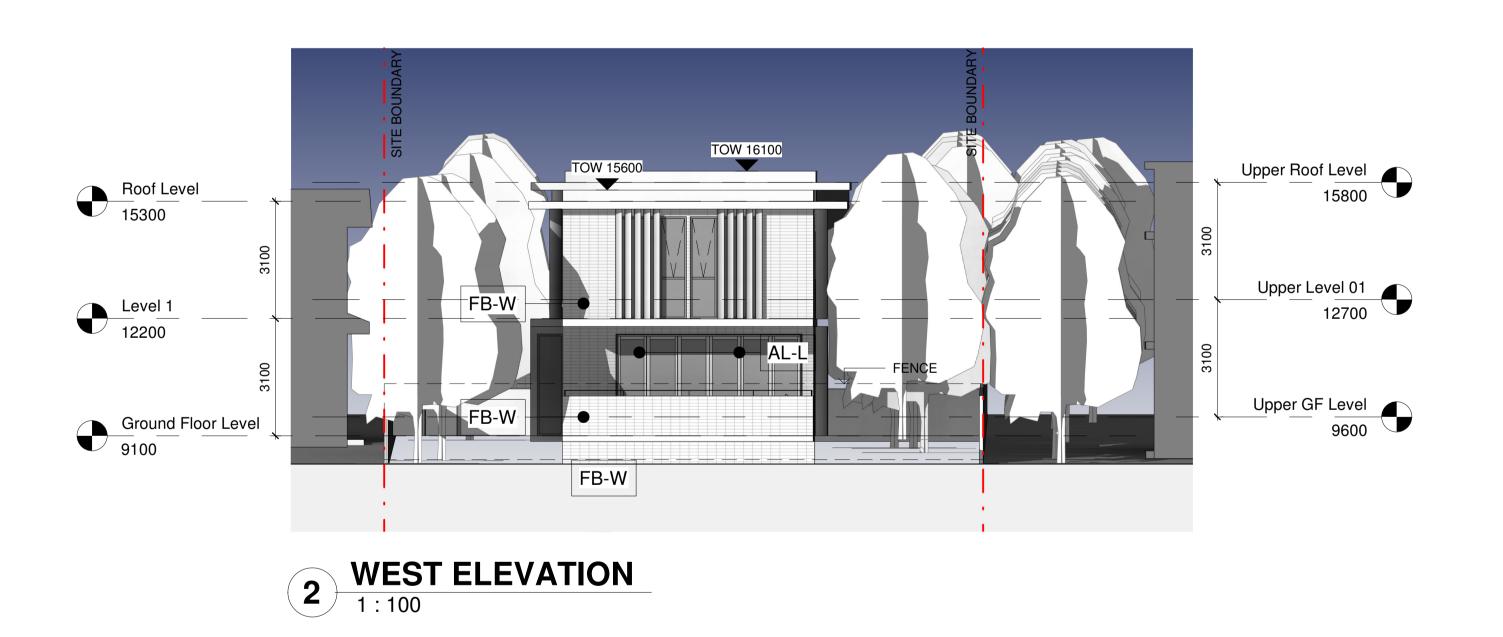
Rev Description Date A DRAFT DA 03/12/19 B ISSUED FOR DA 19/12/19	JOHN O'BRIEN A.A.I.A., B.Arch., Grd. Dip. Land Design ARCHITECT & LANDSCAPE CONSULTANT PO BOX 507, DARLINGHURST 1300 • TELEPHONE 0478 145 434 JOHNOBRIENARCHITECT@GMAIL.COM • ABN: 112 669 168 04	140 OCEAN STREET, NARRABEEN	MISSIONARY SISTERS OF BLESSED VIRGIN MARY
	JACEK BANASIEWICZ MSc MRIAI RIBA MAIL: JACEK.BANASIEWICZ@YAHOO.COM MOBILE: 0415 869 812	ROOF PLAN	DRAWN BY JB JO'B SCALE (@ A1) 1:100 PROJECT NUMBER 2019_002 DRAWING NUMBER DA103 B











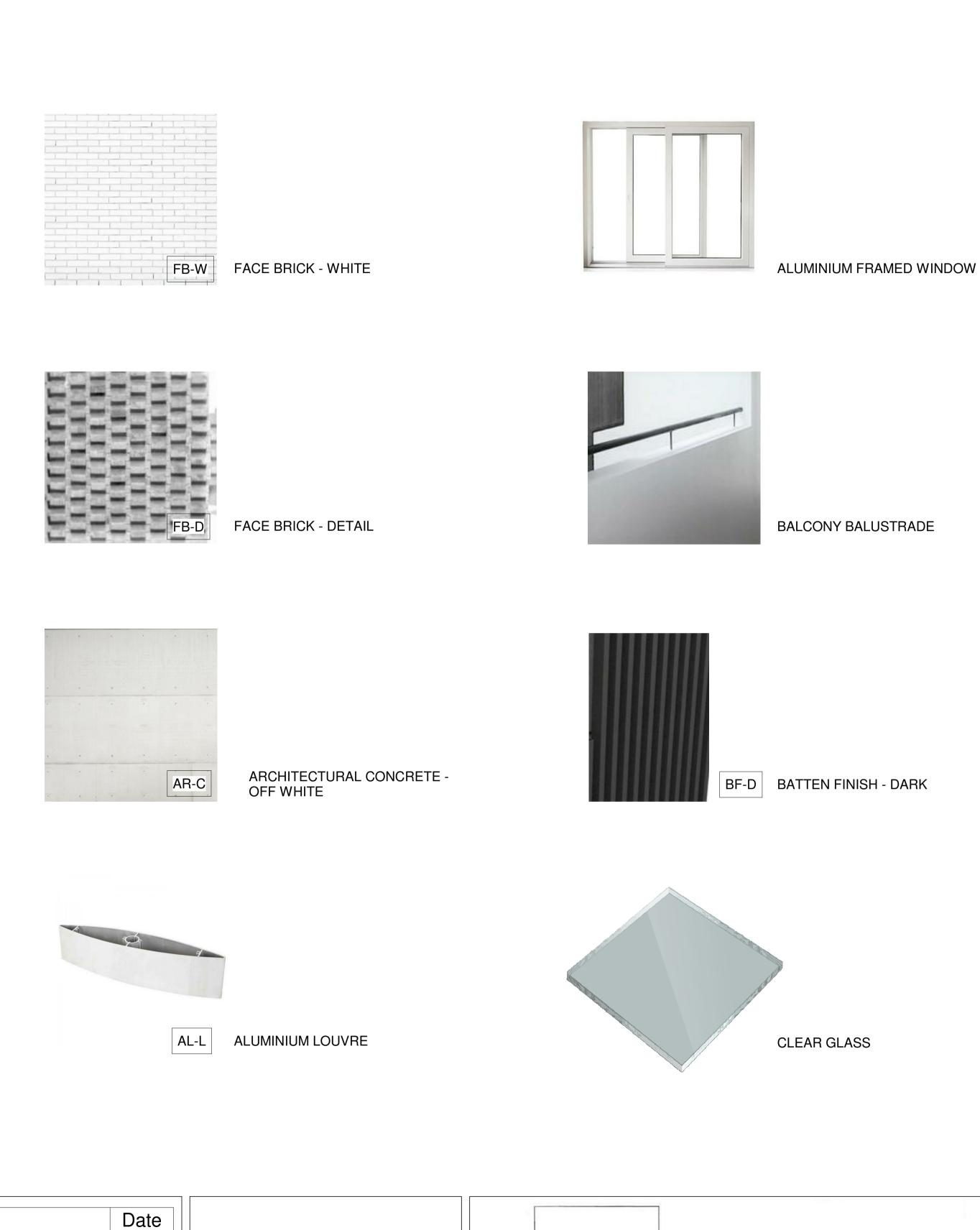
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				AR-C ARCHITECTURAL CONCRETE		
				BF-D BATTEN FINISH - DARK		
Description	Date			PROJECT	CLIENT	
DRAFT DA	03/12/19 19/12/19	JOHN O'BRIEN	ARCHITECT & LANDSCAPE CONSULTANT	140 OCEAN STREET, NARRABEEN		
		The second control of	PO BOX 507, DARLINGHURST 1300 • TELEPHONE 0478 145 434 JOHNOBRIENARCHITECT@GMAIL.COM • ABN: 112 669 168 04		BLESSED VIRG	
				TITLE	DRAWN BY CHECKED BY	

AL-L ALUMINIUM LOUVRE

FB-W FACE BRICK - WHITE

FB-D FACE BRICK - DETAIL



	Date	Description	Rev
	03/12/19	DRAFT DA	Α
JOHN O'BRIEN ARCHITECT & LANDSCAPE CO	19/12/19	ISSUED FOR DA	В
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140 OCEAN STREET, NARRABEEN

TITLE

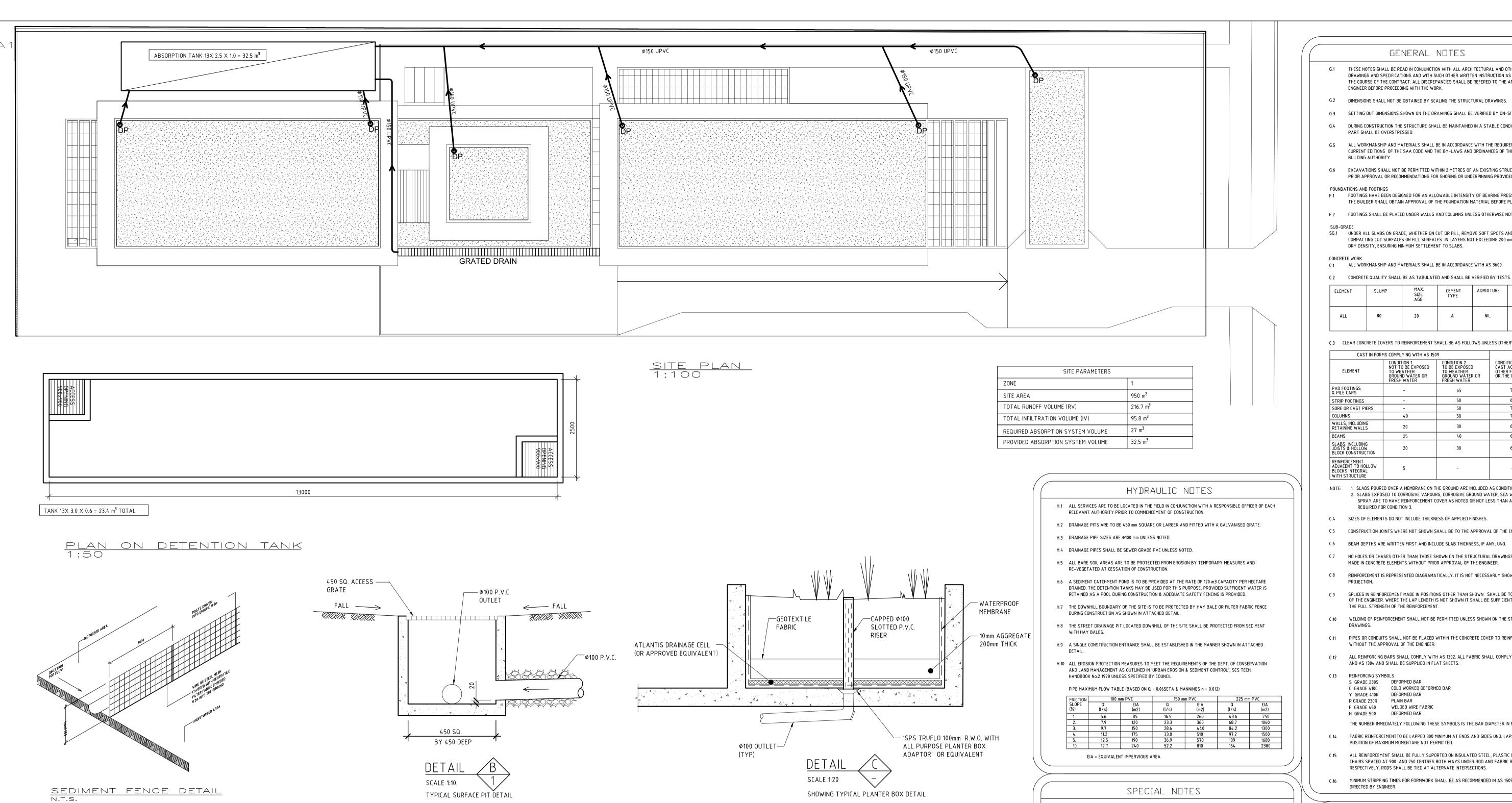
PROJECT

EXTERNAL FINISHES

MISSIONARY SISTERS OF BLESSED VIRGIN MARY DATE 23/11/19 CHECKED BY DRAWN BY JB PROJECT NUMBER 2019_002 SCALE (@ A1) NTS

CLIENT

DRAWING NUMBER REV DA200 В



/X/X/X//X/X/X/,

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CONSTRUCT X-BRACING —

SEPARATE STRUCTURAL DETAILS.

FOOTING TO FUTURE

REFER STRUCTURAL DRAWINGS FOR REINFORCEMENT DETAILS

REFER STRUCTURAL DRAWINGS

- 20mm AGGREGATE FILL

WRAPPED IN FABRIC

FOR REINFORCEMENT DETAILS

2500 WIDE BY 13000 LONG

REFER STRUCTURAL DRAWINGS

ABSORPTION TANK 1 CROSS-SECTION DETAIL

REPLACEABLE GEOTEXTILE—

FABRIC. BIDIM A24

FOR REINFORCEMENT DETAILS

900 x 600

STEP IRONS

AT 300 C/C

REFER STRUCTURAL DRAWINGS

FOR REINFORCEMENT DETAILS

REFER STRUCTURAL DRAWINGS FOR REINFORCEMENT DETAILS

ACCESS GRATE. —

REFER STRUCTURAL DRAWINGS

(TANK 1 – CONNECT RISING MAIN

FROM BASEMENT SUMP & PUMP

PROVIDE NON-RETURN VALVE)

ABOVE TANK ROOF LEVEL.

FOR REINFORCEMENT DETAILS

SPECIAL NOTES

- ALL PIPES TO BE LAID ON 75 mm SAND BED WITH THE BARRELS FULLY SUPPORTED ("B" CLASS BEDDING) PROVIDE "CLEANING EYES" TO ALL DOWN PIPES NOT DIRECTLY CONNECTED TO PITS.
- "HEAVY DUTY" GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS. THE SUMP IN THE DETENTION TANK SHALL BE DELETED.
- ORIFICE PLATES USED TO RESTRICT THE OUTFLOW MUST BE MACHINED TO THE EXACT DIMENSION

— REMOVABLE BRICK KEEPER

PERMANENT GEOTEXTILE

FABRIC. BIDIM A24

- 20mm AGGREGATE FILL

WRAPPED IN FABRIC

 $eg \square$

- AS CALCULATED, FROM MINIMUM 3 mm THICK STAINLESS STEEL OR 3 mm THICK GALVANISED STEEL AFTER MACHINING. THEY MUST BE CAST IN THE PIT WALLS OR PERMANENTLY FIXED IN THE PIT BY SOME APPROVED METHOD SO THEY CANNOT BE EASILY REMOVED. 6. A PLAQUE MEASURING NO LESS THAN 400 mm X 200 mm SHALL BE IN SOME WAY PERMANENTLY
- ATTACHED AND PROMINENTLY DISPLAYED WITHIN THE IMMEDIATE VICINITY OF THE OSD DEVISE. THIS PLAQUE SHALL ADVISE OCCUPIERS OF THE PROPERTY OF THE EXISTENCE OF THE OSD DEVISE AND ALSO THAT THE DEVISE IS NOT IN ANY WAY TO BE TAMPERED WITH OR CHANGED WITHOUT PRIOR WTITTEN CONSENT OF COUNCIL. THE CONSTRUCTED OSD INSTALLATION MUST BE APPROPRIATELY CERTIFIED BY A SUITABLY QUALIFIED
- AND EXPERIENCED CONSULTING ENGINEER (GENERALLY CP ENG. QUALIFICATION) WHO MUST STATE THAT IT COMPLIES WITH COUNCIL'S OSD POLICY, ALL RELEVANT CODES AND STANDARDS AND ALSO THAT IT IS GENERALLY IN ACCORDANCE WITH APPROVED PLANS. UPON COMPLETION OF THE OSD WORKS, WORK-AS-EXECUTED (WAE) PLANS SHALL BE SUBMITTED TO
- THE COUNCIL BY THE CONSULTING ENGINEER/REGISTERED SURVEYOR TO VERIFY THAT THE VOLUME OF STORAGE HAS BEEN ATTAINED AND THAT CRITICAL WATER AND FLOOR LEVELS ARE IN ACCORDANCE WITH DESIGN REQUIREMENTS. ANY CHANGES OR VARIATIONS TO THE APPROVED PLANS SHALL BE HIGHLIGHTED IN RED.
- 9. CERTIFICATION ON THE STANDARD FORM FOR ON-SITE DETENTION RECORD OF INSTALLATION ISSUED BY COUNCIL AND WAE PLANS SHALL BE SUBMITTED TOGETHER WITH THE COMPLIANCE CERTIFICATE.

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GENERAL NOTES

- THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTION AS ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERED TO THE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G.2 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G.3 SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY ON-SITE MEASUREMENT.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE SAA CODE AND THE BY-LAWS AND ORDINANCES OF THE RELATIVE
- G.6 EXCAVATIONS SHALL NOT BE PERMITTED WITHIN 2 METRES OF AN EXISTING STRUCTURE WITHOUT PRIOR APPROVAL OR RECOMMENDATIONS FOR SHORING OR UNDERPINNING PROVIDED BY ENGINEER.
- FOUNDATIONS AND FOOTINGS
- F.1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE INTENSITY OF BEARING PRESSURE OF 150kPa. THE BUILDER SHALL OBTAIN APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.

F.2 FOOTINGS SHALL BE PLACED UNDER WALLS AND COLUMNS UNLESS OTHERWISE NOTED.

SG.1 UNDER ALL SLABS ON GRADE, WHETHER ON CUT OR FILL, REMOVE SOFT SPOTS AND REFILL BY COMPACTING CUT SURFACES OR FILL SURFACES IN LAYERS NOT EXCEEDING 200 mm TO 95% DRY DENSITY ENSURING MINIMUM SETTLEMENT TO SLABS.

C.1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.

ELEMENT	SLUMP	MAX. SIZE AGG.	CEMENT TYPE	ADMIXTURE	mPa CONCRETE GRADE
ALL	80	20	А	NIL	32

C.3 CLEAR CONCRETE COVERS TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE SHOWN.

CAST IN FOR			
ELEMENT	CONDITION 1 NOT TO BE EXPOSED TO WEATHER GROUND WATER OR FRESH WATER	CONDITION 2 TO BE EXPOSED TO WEATHER GROUND WATER OR FRESH WATER	CONDITION 3 CAST AGAINST OTHER FORMWORK OR THE GROUND
PAD FOOTINGS & PILE CAPS	-	65	75
STRIP FOOTINGS	-	50	65
SORE OR CAST PIERS	-	50	75
COLUMNS	40	50	75
WALLS, INCLUDING RETAINING WALLS	20	30	65
BEAMS	25	40	65
SLABS, INCLUDING JOISTS & HOLLOW BLOCK CONSTRUCTION	20	30	65
REINFORCEMENT ADJACENT TO HOLLOW BLOCKS INTEGRAL WITH STRUCTURE	5	-	-

- NOTE: 1. SLABS POURED OVER A MEMBRANE ON THE GROUND ARE INCLUDED AS CONDITION 2. 2. SLABS EXPOSED TO CORROSIVE VAPOURS, CORROSIVE GROUND WATER, SEA WATER OR SPRAY ARE TO HAVE REINFORCEMENT COVER AS NOTED OR NOT LESS THAN AS REQUIRED FOR CONDITION 3.
- C.4 SIZES OF ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C.5 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE TO THE APPROVAL OF THE ENGINEER.
- C.6 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY, UNO.
- NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C.8 REINFORCEMENT IS REPRESENTED DIAGRAMATICALLY. IT IS NOT NECESSARLY SHOWN IN TRUE
- SPLICES IN REINFORCEMENT MADE IN POSITIONS OTHER THAN SHOWN SHALL BE TO THE APPROVAL
- OF THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.
- C.10 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL
- PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
- ALL REINFORCING BARS SHALL COMPLY WITH AS 1302. ALL FABRIC SHALL COMPLY WITH AS 1303
- AND AS 1304 AND SHALL BE SUPPLIED IN FLAT SHEETS.
- S GRADE 230S DEFORMED BAR C GRADE 410C COLD WORKED DEFORMED BAR
- DEFORMED BAR Y GRADE 410R
- R GRADE 230R PLAIN BAR F GRADE 450 WELDED WIRE FABRIC
- N GRADE 500 DEFORMED BAR THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE BAR DIAMETER IN MILLIMETRES
- FABRIC REINFORCEMENTTO BE LAPPED 300 MINIMUM AT ENDS AND SIDES UNO. LAPS IN
- POSITION OF MAXIMUM MOMENTARE NOT PERMITTED.
- C.15 ALL REINFORCEMENT SHALL BE FULLY SUPORTED ON INSULATED STEEL, PLASTIC OR CONCRETE
- CHAIRS SPACED AT 900 AND 750 CENTRES BOTH WAYS UNDER ROD AND FABRIC REINFORCEMENT RESPECTIVELY. RODS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- MINIMUM STRIPPING TIMES FOR FORMWORK SHALL BE AS RECOMMENDED IN AS 1509 OR AS DIRECTED BY ENGINEER.

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CONSULTING STRUCTURAL, CIVIL, GEDTECHNICAL & ENVIRONMENTAL ENGINEERS PHONE 61-02 9975 3899 3 Wanniti Road BELROSE 2085

FAX 61-02 9975 1943 MOBILE 0407 753 899 EMAIL hited@bigpond.net.au

CLIENT: MISSIONARY SISTERS OF BLESSED MARY PROJECT: HYDRAULICS DETAILS FOR NEW DEVELOPMENT AT 140 OCEAN ST, NARRABEEN

Drav	wn By:				Scale:		
		KZ			AS	SHOWN	
Checke	ed By:				Drawing No.:		
E.	Α.	BENNETT	M.I.E.	Aust.	M-11-	267490A	
Date:		10 (00 (00	1.0		Amendment		
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Registered Professional Engineer 19823+

Mr Edward A. Bennett

MIEAUST CPENG

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National Professional Engineers Register