GENERAL

- 1.01 TECHNICAL SPECIFICATIONS OR SPECIFIC INSTRUCTIONS ON DRAWINGS TAKE PRECEDENCE OVER THESE NOTES.
- 1.02 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. CONSTRUCTION FROM THESE DRAWINGS, AND THEIR ASSOCIATED CONSULTANTS' DRAWINGS, IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES AND UNTIL THE DRAWINGS ARE "ISSUED FOR CONSTRUCTION" CLIENT TO CONTACT DANMOR CONSULTING PRIOR TO COMMENCING ON SITE TO HAVE THE DRAWINGS CHECKED AND ISSUED FOR CONSTRUCTION.
- 1.03 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH BY BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- 1.04 ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- 1.05 DURING CONSTRUCTION THE STRUCTURE, AND ANY ASSOCIATED EXCAVATIONS, SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- 1.06 UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE IN MILLIMETRES (mm) AND ALL LEVELS ARE IN METRES (m) TO AUSTRALIAN HEIGHT DATUM (AHD).
- 1.07 ALL ABBREVIATIONS ARE IN ACCORDANCE WITH AS 1100. ADDITIONAL ABBREVIATIONS USED ARE AS FOLLOWS:
 - NSOP NOT SHOWN ON PLAN
 - NSOE NOT SHOWN ON ELEVATION
 - UNO UNLESS NOTED OTHERWISE
 - U/S UNDERSIDE
 - GL GROUND LINE FFL FINISHED FLOO
 - FINISHED FLOOR LEVEL

2.0 DESIGN DATA

2.01 THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODES AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING LOADINGS. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED FLOOR USAGE.

2.02 LIVE LOADS ARE IN ACCORDANCE WITH AS 1170.1.

FLOOR USAGE	SUPERIMPOSED DEAD LOADS (kPa)	LIVE LOAD (kPa)
RESIDENTIAL		
- INTERNAL	0.50	1.5
- WET AREAS	1.00	1.5
- BALCONIES	0.50	2.0

2.03 WIND LOADS ARE IN ACCORDANCE WITH AS 1170.2-2002 AS FOLLOWS:

REGIONAL WIND SPEED: V_{R} = 46 m/s

ANNUAL PROBABILITY OF EXCEEDANCE = 1:1000

REGION: A2

TERRAIN CATEGORY: 3

2.04 THE CONCRETE ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING EXPOSURE CLASSIFICATIONS IN ACCORDANCE WITH AS 3600.

ELEMENT	CLASSIFICATION
EXTERIOR CONCRETE	B1 A1

3.0 BULK EARTHWORKS

3.01 ALL EXCAVATION WORK TO BE CARRIED OUT TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT INCLUDING INSPECTION OF STRIPPING, APPROVAL OF FILL MATERIAL AND APPROVAL OF COMPACTION 3.02 REFER TO THE GEOTECHNICAL REPORT FOR EXCAVATION CONDITIONS, INCLUDING NATURAL WATER LEVELS AND GROUND CONDITIONS. 3.03 REFER TO SURVEY DRAWINGS FOR EXISTING SERVICES AND LEVELS. 3.04 ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM 3.05 V.R.C. INDICATES VERTICAL ROCK CUT, ROCK TO BE CUT NEAR VERTICAL FROM LOWER BENCH AT 90° TO 95° WITH HORIZON UNLESS NOTED OTHERWISE. 3.06 OVERBURDEN OCCURRING ABOVE ROCK SHALL BE BATTERED BACK AT 2:1 AS REQUIRED. SITE SURFACE CONTOURS SHOWN ARE INDICATIVE ONLY. FOR TRUE 3.07 SURFACE LEVELS REFER SURVEY DRAWINGS. 6.01 4.0 SLAB ON GRADE 4.01 REMOVE ALL TOP SOIL INCLUDING ROOTS AND ANY OTHER ORGANIC MATTER. STORE TOP SOIL AS REQUIRED. 6.03 4.02 WHERE SHOWN ON THE DRAWINGS, BASE AND SAND BLINDING ARE TO BE PLACED AND COMPACTED AS SPECIFIED. 6.04 4.03 EXCAVATE TO THE REQUIRED FORMATION LEVEL AND PROOF ROLL FORMATION WITH 6 PASSES OF A 10 TONNE SMOOTH WHEELED ROLLER. SOFT AREAS ARE TO BE REMOVED AND REPLACED WITH SUITABLE FILL COMPACTED TO THE DENSITY NOMINATED BELOW. 4.04 CONTROLLED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. PLACE IN MAXIMUM 150mm THICK LAYERS TO 98% STANDARD COMPACTION IN ACCORDANCE WITH AS 1289-E1.1 MAXIMUM DEPTH OF FILL IS TO BE 400mm FOR COHESIVE FILL AND 800mm FOR GRANULAR FILL. FC SI 4.05 CLAY SUBGRADE FORMATION IS TO BE MAINTAINED AT OPTIMUM MOISTURE CONTENT -0.+3% PRIOR TO COVERING. (TC 5.0 FOUNDATIONS 6.06 5.01 FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING ALLOWABLE PRESSURES: 6.08

ELEMENT	BEARING PRESSURE (kPa)	SHAFT ADHESION (kPa)
WAFFLE SLAB, PAD & STRIP FOOTINGS	150	-
PILES	400	25

- 5.02 THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS BEARING CAPACITY BEFORE PLACING ANY MEMBRANE, REINFORCEMENT OR CONCRETE. WHERE NECESSARY, THE FOOTING DESIGN MAY BE ALTERED TO SUIT.
- 5.03 SITE CLASSIFICATION IS ASSUMED CLASS 'M' IN ACCORDANCE WITH AS2870. THIS IS TO BE CONFIRMED ON SITE AFTER EXCAVATION HAS TAKEN PLACE.
- 5.04 THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING ANY EXCAVATIONS IN A STABLE CONDITION WITHOUT ADVERSELY AFFECTING SURROUNDING PROPERTIES INCLUDING SERVICES. THIS INCLUDES OBTAINING ALL NECESSARY APPROVALS FOR SHORING AND ANCHORING SYSTEMS.
- 5.05 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
- 5.06 FOOTINGS NEAR BOUNDARIES MUST NOT BE LOCATED HIGHER OR LOWER THAN FOOTINGS OF ADJACENT PROPERTIES UNLESS APPROVED.

	P/ (02) 9623 0015	AMENDMENTS			DRAWN: JD	DESIGNED: JK	PROJECT:	CLIENT:
	E/ info@danmorconsulting.com.au	NO.	DESCRIPTION	DATE	APPROVED:	DATE: 07/04/21	PBOPOSED POOL	A GRAD
max	A/ L2 Suite 208, 43 Majors Bay Hd, Concord 2137	1	ISSUED FOR CONSTRUCTION CERTIFICATE	07/04/21		D		
					M.E STRUCTURAL		19 PHILIP ROAD	TITLE:
	COPYRIGHT THIS DRAWING AND THE INFORMATION SHOWN HEREON				MEMB. NO: 2320868		MONA VALE NSW 2103	GENER
g engineers	S THE PROPERTY OF DANMOR CONSULTING ENGINEERS P/L AND MAY NOT BE USED FOR ANY OTHER PURPOSE THAN FOR WHICH SUPPLIED.				SCALE AT A3: 1	:100 U.N.O		

5.07 WHERE FOOTINGS ARE OVER-EXCAVATED, FILL OVER-EXCAVATED AREAS WITH BLINDING CONCRETE GRADE SAME AS FOOTING TO A MINIMUM THICKNESS OF 50mm.

5.08 KEEP FOOTINGS CLEAN AND FREE OF LOOSE MATERIAL BEFORE INSPECTION, IMMEDIATELY PRIOR TO POURING OF CONCRETE, AND DURING POURING.

5.09 DO NOT EXCEED A RISE OF 1000mm IN A RUN OF 3000mm FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.

5.10 DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVER WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE.

5.11 FOOTINGS ARE TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.

5.12 FOR FOOTINGS FOUNDED ON CONTROLLED FILL, REFER TO NOTE 4.04.

6.0 CONCRETE

6.09

6.11

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

6.02 PRE-MIXED CONCRETE SUPPLY SHALL COMPLY WITH AS 1379.

NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

CONCRETE MIX DESIGNS TO BE SUBMITTED FOR REVIEW PRIOR TO USE OF CONCRETE.

6.05 ENSURE CLEAR COVER TO REINFORCEMENT IS AS FOLLOWS UNLESS DETAILED OTHERWISE.

	COVER (mm)						
ELEMENT	FORMED - EXPOSED TO WEATHER (B1)	FORMED - NOT EXPOSED TO WEATHER (A1)	NOT FORMED - CAST AGAINST GROUND				
OTINGS & PILES	-	-	50				
ABS ON GROUND OP COVER)	40	20	-				

CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.

6.07 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.

FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., REFER TO ARCHITECTURAL DETAILS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.

NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

6.10 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

6.12 CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURER'S SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM WIND AND TRAFFIC.

ALL COUNCIL & SYDNEY WATER ASSETS TO BE IDENTIFIED PRIOR TO ANY CONSTRUCTION. STRUCTURAL DRAWINGS TO BE CONFIRMED ONCE SERVICE REPORT HAS BEEN CARRIED OUT.

DE POOLS	ALL DIMENSIONS IN 'mm' UNLESS OTHERWISE STATED
	JOB NO. D21082
AL NUTES SHEET 1	DRAWING NO. S01

- 6.0 CONCRETE (CONT.) 6.14 CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO MASONRY OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL ALL PROPPING IS REMOVED AND THE SLAB HAS ABSORBED ITS DEAD LOAD DEFLECTION.
- THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR 6.15 REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL OBTAINED.
- 6.16 CONDUITS, PIPES, ETC. SHALL ONLY BE LOCATED IN THE MIDDLE THIRD OF THE SLAB DEPTH. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
- 6.17 SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS, ETC. SHOWN ON THE DRAWINGS. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 20mm MINIMUM CLEAR FROM SOFFITS OF STRUCTURE.
- CONCRETE QUALITY SHOWN IN CONCRETE MIX DESIGN TABLE. 6.18

CONCRETE MIX TABLE

	EXPOSURE CLASSIFICATION	STRENGTH (MPa) U.N.O.		
ELEMENT	(AS 3600)	F'c AT 28 DAYS	OTHER	
FOOTINGS	A1	25	-	
WALLS/COLUMNS	A1	32	-	
SLABS ON GROUND	A1	25	-	
INTERNAL SUSPENDED SLABS	A1	32	-	
PILES	A1	25	-	

7.0 REINFORCEMENT

7.01 REINFORCEMENTS SYMBOLS:

- S DENOTES GRADE 250 S HOT ROLLED DEFORMED BARS TO AS 4671
- DENOTES GRADE D 500 N BARS TO AS 4671 GRADE N
- SL & RL DENOTES GRADE 250 HOT ROLLED PLAIN BARS TO AS 4671 SQUARE & RECTANGULAR MESH RESPECTIVELY
- DENOTES GRADE 250 HOT ROLLED PLAIN BARS TO AS 4671
- DENOTES HARD-DRAWN PLAIN WIRE TO AS 4671 W
- DW DENOTES COLD ROLLED RIBBED WIRE TO A.S 4671

NUMBER OF BARS IN GROUP - BAR GRADE AND TYPE



THE FIGURES FOLLOWING THE FABRIC SYMBOL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671

- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL 7.02 PLASTIC TIPPED CHAIRS. PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS GREATER THAN B1 USE ONLY PLASTIC CHAIRS.
- 7.03 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- SLAB REINFORCEMENT SHALL EXTEND AT LEAST 75mm ONTO MASONRY 7.04 SUPPORT WALLS AND 50 PERCENT OF BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED FNDS
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS 7.05 SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE THE FOLLOWING:

FABRIC SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25mm MINIMUM

 25mm MIN.
 * •

A MAXIMUM OF THREE SHEETS OF FABRIC SHALL BE LAPPED AT ANY POINT.

8.0 STRUCTURAL MASONRY

- 8.01 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700 CURRENT ADDITION WITH AMENDMENTS AND OTHER RELEVANT CODES
- 8.02 MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE 8.03 ABOVE BY 25mm GAP. PROVIDE JOINT FILLER TO THE ARCHITECTS' DETAILS.
- NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING 8.04 MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.
- 8.05 REINFORCED BRICKWORK SHALL COMPLY WITH THE FOLLOWING U.N.O.:

(i) FILL ALL BED JOINTS AND PERPENDS WITH MORTAR EXCEPT AT WEEP HOLES

(ii) PROVIDE CLEAN-OUTS AT BASE OF REINFORCED CORES AND CAVITIES. REMOVE MORTAR PROTRUSIONS BEFORE CORE OR CAVITY FILLING

(iii) COMPACT GROUT FILLING BY RODDING OR MECHANICAL VIBRATION

(iv) MAXIMUM HEIGHT OF POUR FOR CAVITY FILLED WALLS TO BE

- 8.06 WATERPROOF REAR FACE OF RETAINING WALLS AS SPECIFIED BY THE ARCHITECT.
- 8.07 UNLESS NOTED OTHERWISE, PROVIDE VERTICAL CONTROL JOINTS AT 6.0M MAXIMUM CENTRES, AND 6.0M MAXIMUM FROM CORNERS IN ALL MASONRY WALLS U.N.O. AND AT WEAK POINTS OF THE WALL.
- BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR 8.08 MATERIAL U.N.O. PROVIDE SUBSOIL DRAIN OR WEEP HOLES
- ALL CAVITY CONSTRUCTION TO HAVE GALVANISED WALL TIES 8.09 INSTALLED AS PER CLAUSE 3.4 AND 4.10. AS 3700.

9.0 STRUCTURAL STEELWORK

- 9.01 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 4100 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 9.02 UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS 3678 GRADE 250, OR AS 3679 GRADE 300, OR AS 1163 GRADE C350 AS APPROPRIATE
- 9.03 TWO (2) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION IS NOT TO COMMENCE WITHOUT ENGINEER'S APPROVAL OF WORKSHOP DRAWINGS. ALL DIMENSIONS AND SETOUTS TO BE OBTAINED FROM ARCHITECTURAL DRAWINGS WHERE NOT INDICATED ON STRUCTURAL DRAWINGS
- 9.04 BOLT CATEGORY: COMMENTS
 - 4.6/S COMMERCIAL BOLTS OF GRADE 4.6 TO AS 1111 SNUG TIGHTENED
 - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 8 8/S SNUG TIGHTENED
- 9.05 UNLESS NOTED OTHERWISE ALL CLEAT PLATES SHALL BE MINIMUM 10mm THICK.
- 9.06 UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 CATEGORY 8.8/S. NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANISED. UNLESS NOTED OTHERWISE, ALL HOLDING DOWN BOLTS SHALL BE M20 CATEGORY 4.6/S. ALL BOLTS. NUTS AND WASHERS SHALL BE HOT DIPPED GALVANISED.

- AND WASHERS SHALL BE HOT DIPPED GALVANISED. DIPPED GAI VANISED
- 9.08 FABRICATION SHALL COMPLY WITH AS 4100, SECTION 14.
- 9.09 ERECTION SHALL COMPLY WITH AS 4100. SECTION 15.
- SP TO AS 1554.1. CONTINUOUS CATEGORY GP USING F41XX FLECTRODES
- SPECIFICATION.

ELEMENT	SURFACE PREPARATION	PRIME COAT	SECOND COAT	THIRD COAT
ALL U.N.O	ABRASIVE BLAST CLASS 2.5	2 COATS R.O.Z.P (MIN. DRY FILM THICKNESS TO 75 MICRONS)	REFER ARCHITECT	REFER ARCHITECT
ALL EXTERNAL STEELWORK (INCL. LINTELS)	-	HOT DIP GALVANISED	REFER ARCHITECT	REFER ARCHITECT

- WHETHER OR NOT DETAILED IN THE DRAWINGS
- AFTER WELDING.

10.0 STRUCTURAL TIMBER

- AND AS 1720.2 U N O
- 10.03 SOFTWOOD TO BE MINIMUM GRADE F7 U.N.O. HARDWOOD TO BE MINIMUM GRADE F14.
- LOADS AND PRECAMBER.
- AND NUTS TO BE AT LEAST 2.5 TIMES BOLT DIAMETER.
- - (i) SEASONED SOFTWOOD: 5, -0mm

 - (iii) SEASONED HARDWOOD: +2, -0mm
- MINOR DEFECTS.

	P/ (02) 9623 0015		AMENDMENTS		DRAWN: JD	DESIGNED: JK	PROJECT:	CLIENT:
	E/ info@danmorconsulting.com.au A/ L2 Suite 208, 43 Majors Bay Rd, Concord 2	37 NO.	DESCRIPTION ISSUED FOR CONSTRUCTION CERTIFICATE	DATE 07/04/21	APPROVED: DANNY MORCHE	DATE: 07/04/21 D	PROPOSED POOL	A GRADE
\bigcirc					B.E CIVIL M.E STRUCTURAL CPEng,MIEAust,NPER MEMB. NO: 2320868		19 PHILIP ROAD MONA VALE NSW 2103	TITLE: GENERA
CON	NSULTING ENGINEERS IN THE INFORMATION STATUS FOR ANY OF A MANY AND THE INFORMATION STATUS FOR ANY OF A MANY AND THE PURPOSE THAN FOR WHICH SUP	MAY LIED.			SCALE AT A3: 1	:100 U.N.O		

9.07 UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 CATEGORY 8.8/S. NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS. NUTS UNLESS NOTED OTHERWISE, ALL HOLDING DOWN BOLTS SHALL BE M20 CATEGORY 4.6/S. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT

9.10 UNLESS NOTED OTHERWISE, ALL FILLET WELDS SHALL BE 6mm CONTINUOUS CATEGORY GP USING E41XX ELECTRODES. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS CATEGORY

UNLESS NOTED OTHERWISE. ALL PURLIN CLEAT WELDS SHALL BE 6mm

9.11 PROVIDE SEAL PLATES TO THE ENDS OF ALL HOLLOW SECTIONS. WITH 'BREATHER' HOLES IF MEMBERS TO BE HOT DIP GALVANISED.

9.12 STRUCTURAL STEELWORK NOT ENCASED IN CONCRETE SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE

9.13 THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL

9.14 FREE ALL MEMBERS FROM TWISTS AND DISTORTIONS BEFORE AND

9.15 ALL MEMBERS TO BE IN ONE LENGTH, UNLESS OTHERWISE APPROVED.

10.01 ALL TIMBER DESIGN, CONSTRUCTION AND MATERIAL TO BE AS 1720.1

10.02 AS 1684 SHALL BE APPLIED TO DOMESTIC CONSTRUCTION BY A LICENSED CARPENTER. ADDITIONAL BEAMS/JOISTS MAY BE REQUIRED ABOVE THOSE SPECIFIED IN THESE DRAWINGS TO CARPENTERS REQUIREMENTS OR DUE TO EXISTING UNFORESEEN CONDITIONS.

10.04 EXTERNAL TIMBER TO BE EITHER HARDWOOD DURABILITY CLASS I OR CLASS II AS PER AS 1720.2 OR IMPREGNATED PINE GRADE F7, PRESSURE TREATED TO AS 1604 AND RE-DRIED PRIOR TO USE. SUPPLEMENTARY TREATMENT SHALL BE APPLIED TO ALL CUT SURFACES. SUPPLY SUPPORTING DOCUMENTATION FOR PRESERVATIVE TREATMENT.

10.05 TIMBER TRUSSES TO BE PRE-CAMBERED AN AMOUNT EQUAL TO DEAD LOAD DEFLECTION. THREE (3) COPIES OF SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL CLEARLY SHOWING THE DESIGN LOADS ON THE ROOF AND CEILING AND TRUSS NODE POINT

10.06 ALL BOLTS IN TIMBER CONSTRUCTION TO BE MINIMUM M12 U.N.O. BOLT HOLES TO BE DRILLED EXACT SIZE. WASHERS UNDER HEADS

10.07 TIMBER DIMENSIONS ON THE FINISHED WIDTH AND THICKNESS TO BE: (ii) UNSEASONED SOFTWOOD: >F7:+3, -3mm OR F7:+2, -4mm (iv) UNSEASONED HARDWOOD: +3, - 3mm (SEE ALSO CLAUSE 1.6.2 IN AS 2082)

10.08 ALL TIMBER JOINTS AND NOTCHES ARE TO BE 100mm MINIMUM AWAY FROM LOOSE KNOTS, SEVERE SLOPING GRAIN, GUM VEINS OR OTHER

DE POOLS	ALL DIMENSIONS IN 'mm' UNLESS OTHERWISE STATED
	ЈОВ NO. D21082
AL NOTES SHEET 2	DRAWING NO. S02



PROPOSED POOL PLAN

SCALE 1:50 REFER TO SECTIONS AND DETAILS F'c= 32MPa



DENOTES 2N16 TRIMMER BARS EXTENDING 600mm PAST CORNERS (1500 MIN. LENGTH)

P/ (02) 9623 0015	AMENDMENTS		DRAWN: JD	DESIGNED: JK	PROJECT:	CLIENT:	ALL DIMENSIONS IN 'mm'
E/ info@danmorconsulting.com.au	NO. DESCRIPTION	DATE	APPROVED:	DATE: 07/04/21	PROPOSED POOL	A GRADE POOLS	UNLESS OTHERWISE STATED
	1 ISSUED FOR CONSTRUCTION CERTIFICA	TE 07/04/21	DANNY MORCHE B.E CIVIL M.E STRUCTURAL CPEng MIEAust NPER	D	19 PHILIP ROAD	TITLE:	. JOB NO. D21082
TING ENGINEERS IS THE PROPERTY OF DAMMOR CONSULTING ENGINEERS PIL AND MAY			MEMB. NO: 2320868	50.11.N.O	MONA VALE NSW 2103	POOL PLAN	DRAWING NO.

150 DENOTES SLAB THICKNESS

THE DENOTES SLAB STEP DOWN

IONS



P/ (02) 9623 0015		AMENDMENTS	DRAWN: JD	DESIGNED: JK	PROJECT:	CLIENT:	
E/ info@danmorconsulting.com.au	NO.	DESCRIPTION	DATE	APPROVED:	DATE: 07/04/21	PROPOSED POOL	
A/ L2 Suite 208, 43 Majors Bay Rd, Concord 2137	ord 2137 1	ISSUED FOR CONSTRUCTION CERTIFICATE	07/04/21		S		
				M.E STRUCTURAL		19 PHILIP ROAD	TITLE:
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JLTING ENGINEERS IS THE PROPERTY OF DANMOR CONSULTING ENGINEERS F NOT BE USED FOR ANY OTHER PURPOSE THAN FOR WHICH	P/L AND MAY H SUPPLIED.			SCALE AT A3: 1:	20 U.N.O		

SPECIFICATION

- 1. PLUMBING IS TO BE IN ACCORDANCE WITH WRITTEN RECOMMENDATIONS OF FILTER MANUFACTURERS.
- WALKWAYS ARE NOT DESIGNED TO SUPPORT 2. MASONRY WALLS UNLESS NOTED OTHERWISE
- DESIGN LIVE LOAD FOR WALKWAYS AND З. CONCOURSES TAKEN AS 2.0 KPa

CONSTRUCTION NOTES

- 1. ALL DIMENSIONS LOCATING POOL ARE BE TAKEN FROM ARCHITECTURAL DRAWINGS
- 2. POOL DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH AS2783 & AS3600 AND ALL OTHER RELEVANT STANDARDS
- 3. ENGINEER TO BE ADVISED IF EXCAVATION IS IN FILL OR IF EXCESSIVE GROUND WATER IS ENCOUNTED
- 4. SUPPORTING FOUNDATION MATERIAL TO BE STABLE NATURAL CLAY OF UNIFORM MOISTURE CONTENT WITH SAFE BEARING CAPACITY OF 150 Kpa
- 5. WHERE IT IS CONSIDERED THAT GROUND WATER CAN BUILD UP TO A LEVEL 500mm ABOVE THE FLOOR OF THE EXCAVATION ADEQUATE DRAINAGE SHALL BE PROVIDED UNDER THE POOL FLOOR
- 6. CONCRETE TO HAVE A MINIMUM DESIGN STRENGTH OF F'c 32 MPa AT 28 DAYS WITH 80mm SLUMP, CONCRETE TO BE PNEUMATICALLY APPLIED
- 7. UPON COMPLETION OF CONCRETING THE HYDROSTATIC VALVE IS TO BE CHECKED TO ENSURE EFFECTIVE AND SUFFICIENT OPERATION
- 8. PLASTIC OR NON-RUSTING CHAIRS ARE TO BE USED TO SUPPORT REINFORCEMENT AT 1000 CTRS MAX.
- 9. REINFORCEMENT IS TO BE STRUCTURAL GRADE DEFORMED BAR GRADE S250 OR D500N TO AUSTRALIAN STANDARD AS1302
- 10. WATER FACE REINFORCEMENT TO HAVE 65mm CONCRETE COVER, REAR FACE REINFORCEMENT TO HAVE 50mm COVER IF FORMED AND 65mm COVER IF SPRAYED AGAINST GROUND
- 11. ALL BARS SHALL BE SPLICED 40 BAR DIAMETERS MIN.
- 12. SPLICES IN BOND BEAM BARS SHALL BE STAGGERED 13. AFTER CONCRETING THE POOL IS TO BE CURED FOR A PERIOD OF 7 DAYS BY WETTING ALL CONCRETE SURFACES

TWICE EACH DAY (10 DAYS CURING REQUIRED IN SUMMER).



50



WALL CORNER DETAIL (PLAN)

SCALE 1:20

COPING CORNER DETAIL (PLAN) SCALE 1:20

450 LAP

USING COG





HYDROSTATIC VALVE DETAIL SCALE 1:20

PLAN AT SKIMMER SCALE 1:20

P/ (02) 9623 0015		AMENDMENTS		DRAWN: JD	DESIGNED: JK	PROJECT:	CLIENT:
E/ info@danmorconsulting.com.au A/ L2 Suite 208, 43 Majors Bay Rd, Concord 2137	NO.	DESCRIPTION	DATE	APPROVED:	DATE: 07/04/21		A GRADI
	1	ISSUED FOR CONSTRUCTION CERTIFICATE	07/04/21	DANNY MORCHED	D		
				M.E STRUCTURAL		19 PHILIP ROAD	TITLE:
COPYRIGHT THIS DRAWING AND THE INFORMATION SHOWN HEREON				CPEng,MIEAust,NPER MEMB. NO: 2320868		MONA VALE NSW 2103	POOL DI
SULTING ENGINEERS IS THE PROPERTY OF DAMMOR CONSULTING ENGINEERS P/L AND MAY NOT BE USED FOR ANY OTHER PURPOSE THAN FOR WHICH SUPPLIED.				SCALE AT A3: 1:	20 U.N.O		

