PROPOSE D LIBRARY AND CHS ALTERATIONS 70 GASKILL STREET, CANOWINDRA NSW 2804

GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER MANUFACTURER'S NOTES THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER MANUPACTURER'S NOTES AND SPECIFICATION AND ANY OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO CALARE CIVIL P/L FOR DECISION BEFORE PROCEEDING WITH THE WORK. CALARE CIVIL PTY. LTD. SHALL NOT BE HELD LIABLE FOR ANY FINANCIAL OR TIME LOSSES INCURRED RESULTING FROM THE FAILURE OF THE PRINCIPAL CONSTRUCTION CONTRACTOR AND THEIR SUBCONTRACTORS TO FOLLOW THE DIRECTIVES ISSUED IN THESE NOTES. NO DEFICIENT WORD WILL BE CEDTEIED WORK WILL BE CERTIFIED.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE TO BE IN 62 ACCORDANCE WITH THE LATEST SET OF ARCHITECTURAL DRAWINGS. ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED ON SITE
- 63
- BEFORE CONSTRUCTION AND FOR THE DURATION OF THE DRAWINGS SIDEL DE VENITED ON STE DURING CONSTRUCTION AND FOR THE DURATION OF THE 100 YEAR DESIGN LIFE, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE AVERTSESDE (THIS INCLUDES USING THE STRUCTURE TO SUPPORT TEMPORARY WORKS). ALL BRACING SHOWN IS THE MINIMUM REQUIREMENT AND NOT ALL BRACING MAY BE SHOWN, ALL TEMPORARY AND PERMANEN BRACING, TIE DOWNS AND GENERAL FIXINGS ARE TO BE INSTALLED IN ACCORDANCE WITH THE FOURFMENTS OF THE NCC AND ALL RELEVANT AUSTRALIAN STANDARDS THE STRUCTURE HAS BEEN DESIGNED FOR FOLLOWING LOADS 65

BUILDING IMPORTANCE LEVEL	2
SUPERIMPOSED DEAD LOADS TO AS/NZS1170.1:	
FLOOR LOADS ROOF LOADS WALL LOADS	G=3.75 kPa G=0.5 kPa G=0.5 kPa
SUPERIMPOSED LIVE LOADS TO AS/NZS1170.1: FLOOR LOADS	Q=4.0 kPa OR 4.5 kN FOR WORST EFFECT
NON-TRAFFICABLE ROOF LOADS	Q=0.25 OR 1.1 kN FOR WORST EFFECT
$\label{eq:constraint} \begin{array}{l} \frac{\text{WIND LOADS TO AS/NZS1170.2:} \\ \text{REGION} \\ \text{AVERAGE RECURRENCE INTERVAL, R} \\ \text{ULTIMATE WIND SPEED V_{50} (3 sec GUST) \\ \text{SERVICEABILITY REGIONAL WIND SPEED V_{55} (3 sec) \\ \text{DIRECTIONAL MULTIPLIER} \\ \text{TERRAIN CATEGORY } \\ \text{DESIGN BUILDING HEIGHT } \\ \text{TERRAIN/HEIGHT MULTIPLIER} (M_{2,cat}) \\ \text{SHIELDING MULTIPLIER} (M_{2}) \\ \end{array}$	A0 500 years 45m/s 37m/S 1.0 2.0 -5.0m 0.91 1.0 1.0
$\label{eq:constraint} \begin{array}{l} \underline{EARTHQUAKE LOADS TO AS/NZS1170.4:}\\ AVERAGE RECURRENCE INTERVAL, R\\ PROBABILITY FACTOR, (kp)\\ HAZARD FACTOR (Z)\\ SITE SUB-SOIL CLASS\\ STRUCTURE HEIGHT, (h_{h})\\ STRUCTURE HEIGHT, (h_{h})\\ STRUCTURE DUCTILITY FACTOR (\mu)\\ HORIZONTAL STATIC ULTMATE DESIGN FORCE, (F_{h})\\ \end{array}$	500 years 1.0 0.08 Ce 2.9m 2.0 0.1 x SEISMIC WEIGHT (W)

- G6. WHERE TEMPORARY CONSTRUCTION WORKS OR ACTIVITY WILL AFFECT OR BE LOCATED ON PROPOSED STRUCTURE. THIS OFFICE IS TO BE NOTIFIED TO ENSURE THE PROPOSED STRUCTURE WILL NOT BE ADVERSELY AFFECTED, WHERE TEMPORARY CONSTRUCTION ACTIVITY WILL AFFECT EXISTING BUILDINGS PROVIDE TEMPORARY PROTECTION TO MAINTAIN THEM WEATHER-PROOF AND EXISTING BUILDINGS, PROVIDE TEMPORARY PROTECTION TO MAINTAIN THEM WEATHER-PROOF AND PREVENT WATER ENTRY AT ALL TIMES UNTIL ALL PERMANENT PROTECTION INCLUMING FLASHING ETC. ARE COMPLETED. REINSTATE OR REPLACE ALL ATTACHMENTS, SIGNS, FITTINGS AND SERVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION ACTIVITIES. NO SUBSTITUTIONS WILL BE MADE WITHOUT WRITTEN PROMISSION FROM THE ENGINEER. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE (UN D.).
- 69 ALL WORK MUST BE CARRIED OUT IN ACCORDANCE WITH STATUTORY REQUIREMENTS, THE CURRENT EDITION OF THE NCC AND ALL RELEVANT AUSTRALIAN STANDARDS (CURRENT EDITIONS). THIS NCLUDES ALL THE RELEVANT OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS

G10. ALL RELEVANT SAFE WORK METHOD STATEMENTS AND JOB SAFETY ANALYSIS REPORTS ARE TO BE IN ACCORDANCE WITH NSW WORKSAFE REQUIREMENTS.

WITNESS INSPECTIONS

- INSPECTIONS ARE TO BE COMPLETED BY CALARE CIVIL OR OTHER SUITABLY QUALIFIED AND EXPERIENCED ENGINEER ARE TO INSPECT AT THE FOLLOWING CRITICAL HOLD POINTS: PREPARATION OF FOUNDATION MATERIAL INCLUDING EXCAVATED PIER HOLES WI1.
- INSTALLATION OF REINFORCEMENT AND/OR DOWELS AND/OR STARTER BARS PRIOR TO THE
- PLACEMENT OF CONCRETE FOR ALL CONCRETE AND REINFORCED MASONRY STRUCTURES
- STEEL AND TIMBER FRAMING PRIOR TO THE INSTALLATION OF WALL AND ROOF SHEETING AND NGS/CEILINGS
- WI2. MINIMUM 48 HOURS NOTICE MUST BE PROVIDED THAT WITNESS INSPECTION IS REQUIRED

TEMPORARY WORKS

DT INFO: S:\2022\20220467\Structural\ 20220467-S-REV C.dwg, DATE: Nov 25,2024 - 10:25:57am

25-11-24 REVISIONS CLOUDED

31-10-24 ISSUE FOR TENDER

Amend Date

A 06-05-24 ISSUE FOR DEVELOPMENT APPLICATION

- TW1. ALL TEMPORARY WORKS SUCH AS SHORING, PROPPING, BRACING, UNDERPINNING, SCAFFOLDING, FORMWORK, FALSEWORK, NEEDLE BEAMS AND WORK/CRANE/PILING PLATFORMS MUST BE DESIGNED BY A SUITABLY QUALIFIED ENGINEER TO BE ENGAGED BY THE PRINCIPAL CONSTRUCTION ONTRACTOR.
- TW2 THESE DRAWINGS ONLY SHOW THE PERMANENT STRUCTURE UNDER NO CIRCUMSTANCES IS ANY PART OF THE DERNAMENT STRUCTURE TO PROVIDE SUPPORT FOR TEMPORARY WORKS WITHOUT CONSULTING CALARE CIVIL PTY LTD TO ENSURE THE STRUCTURE IS ADEQUATE. TW3. IF ANY PART OF THE STRUCTURE IS CONSIDERED UNSAFE TO ERECT OR POSES A RISK, THIS OFFICE IS TO BE IMMEDIATELY CONTACTED FOR COMMENT. IF IN DOUBT, ASK.

By Amend

Date

Description

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. 62

CONCRETE SPECIFICATION					
ELEMENT	SLUMP (mm)	MAX. AGGREGATE SIZE (mm)	CEMENT TYPE	f'c 28 DAY STRENGTH	ADMIXTURE
SLABS	80	20		N32	-
POLISHED SLABS		20	1	N40	
PAD FOOTINGS AND PIERS	80	20	GP PORTLAND	N25	-
WALLS, COLUMNS AND PANELS	80	20	CEMENT	N32	-
BLINDING	-	-		N15	-

UNDER NO CIRCUMSTANCES IS ADDITIONAL WATER TO BE ADDED TO THE CONCRETE ON SITE TO IMPROVE WORKABILITY. THE ADDITION OF WATER SIGNIFICANTLY REDUCES THE FINAL CONCRETE STRENGTH. MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT INCLUDING TIES AND STIRRUPS SHALL BE AS FOLLOWS G.

NLESS UTHERWISE SHUWN.	
ELEMENT	COVER (mm)
FOOTINGS	75
COLUMNS AND BEAMS	40
SLAB ON GROUND	30 TOP, 50 BOTTOM
SUSPENDED SI AB	30

- COVER TO REINFORCEMENT SHALL BE OBTAINED BY THE USE OF APPROVED BAR CHAIRS. BAR CHAIR C4. SPACING SHALL ENSURE THAT REINFORCEMENT REMAINS IN PLACE THROUGHOUT THE POUR AND SHALL BE AT MIN. C/C SPACING AS FOLLOWS: MESH BAR REINFORCEMENT
- AT HIN. C/C SYACINU AS FULLOWS: MGSH 800mm BAR REINFORCEMENT 1000mm ALL CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS. VIBRATORS SHALL NOT BE USED TO CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS. VIBRATORS SHALL NOT BE USED TO C5. SPREAD CONCRETE. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C6.
- BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS. TOLERANCES FOR THE SIZE AND SHAPE OF REINFORCEMENT AND FOR STRUCTURES AND MEMBERS SHALL BE C8.
- IN ACCORDANCE WITH AS4671
- (9. FORMWORK SHALL BE DESIGNED AND CERTIFIED BY A CHARTERED ENGINEER AND BUILT IN ACCORDANCE WITH
- C10. C11.
- AS360. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE SCABBLED OVER THE WHOLE FACE AND ANY UNSOUND MATERIAL REMOVED. SAW CUT SHRINKAGE JOINTS SHALL BE MADE AS SOON AS POSSIBLE AFTER THE POUR. THIS TIME IS CONCEPTE AND TEMPERATURE DEPENDENT BUT IS TO BE COMPLETED WITHIN THE FOLLOWING THE LIMITS. C12.
- IF TEMPERATURE EXCEEDS 25" THEN SAWCUTS MUST BE COMPLETED WITHIN 12 HOURS OF FINISHING
- IF TEMPERATURE EXCEEDS 25 THEN SAWCUTS MUST BE COMPLETED WITHIN 12 HOURS OF FINSHING ALL OTHER TEMPERATURES, SAWCUTS MUST BE COMPLETED WITHIN 16 HOURS REINFORCEMENT IS REPRESENTED DIAGRAMMATCALLY. IT IS NOT NECESSARLY SHOWN IN TRUE PROJECTION. HOURS, COGS, LAPS, ETC., SHALL COMPLY WITH SECTION 13 OF AS3800 (U.N.O.). SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN UNLESS THE APPROVAL OF THE ENGINEER IS OBTAINED FOR ANY OTHER SPLIC.
- C14.
- C15. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
- C16. REINFORCEMENT SYMBOLS:
- DENOTES GRADE 410Y HOT ROLLED DEFORMED BARS TO 451302 DENDTES GRADE 410Y HOT ROLLED DEFORMED BARS TO AS1302. DENOTES GRADE 2308 HOT ROLLED PLAID BARS TO AS1302. DENOTES GRADE 2308 HOT ROLLED DEFORMED BARS TO AS1302. DENOTES GRADE 500-N BARS TO AS/NZS46712001 DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS1304. DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS46712001

- DENOTES HARD-DRAWN WIRE TRENCH MESH TO AS1304. DENOTES HARD-DRAWN PLAIN WIRE TO AS1303.

NOTATION

Description

- Number of bars in group ____ Bar grade & type
- 17-N-20-250
- ____ bar spacing in mm
- nominal bar size in mm ------
- ALL FABRIC FOR SLABS POURED ON GROUND MUST BE IN PLACE BEFORE CONCRETING COMMENCES AND SHALL C 18. BE SUPPORTED ON BAR CHAIRS IN ACCORDANCE WITH NOTE C4 ABOVE, SEATED ON SPREADER PLATES. C 19. FABRIC LAP DETAILS:

 - -1 -25
- EXPOSED CONTREST TO BE CHAMFERED 20mm ACROSS UNLESS NOTED OTHERWISE (U.N.O.). PROVIDE CONTINUOUS MOIST CURING OR WRAP WITH AN IMPERVIOUS MEMBRANE ALL CONCRETE COMPONENTS FOR A MINIMUM IA CONTINUOUS DAYS AFTER INITIAL SET. IF CONCRETE HAS NOT ACHEVED ITS CHARACTERISTIC COMPRESSIVE STRENGTH, APPROVAL FOR EARLY C20. C21.
- (22.
- STRIPPING OF FORMWORK SUPPORTS SHALL BE OBTAINED FROM THE ENGINEER. (23. ALL REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO POURING CONCRETE
- C24. CURING COMPOUND COMPLIANT WITH AS3799 MAY BE USED ON SLAB IN CONJUNCTION WITH PLASTIC SHEETING £25 TARI F

LA	AP LENGTHS IN BAR REINFORC	EMENT SHALL BE MADE IN ACCORDANCE WITH THE FOLL	.0WING T	,
	BAR DIAMETER	LAP (mm)		
	N12	800		
	N16	1000		
	N20	1300		
	N24	1600		
	N28	2000		
	N32	2300		

By Amend

Date

STRUCTURAL STEELWORK

S1. FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH AS4100 CURRENT EDITION AS1554 AND AS/NZS5131 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. S2. STRUCTURAL STEELWORK SHALL BE OF THE FOLLOWING GRADES U.N.O

SECTION	GRADE
HOT-ROLLED UB, UC, PFC 125 EA & GREATER 150x90 UA & GREATER	BHP 300 PLUS
HOT-ROLLED TFB, TFC SMALL EA & UA	AS 3679.1 - 250
COLD-FORMED CHS	AS 1163 - G250
COLD-FORMED RHS	AS 1163 - G350
COLD-FORMED SHS	AS 1163 - G350
DURAGAL (ALL SHAPES)	AS 1163 - G450
COLD-FORMED CEES, ZEDS AND TOPHATS < 1.0mm BMT	AS1397 - G550
COLD-FORMED CEES, ZEDS AND TOPHATS > 1.0mm BMT	AS1397 - G450

- PREPARATION. BOLTS DESIGNATED
- S4. . 4.6/S SHALL BE COMMERCIAL GRADE BOLTS TO AS1111 AND AS1112 (GRADE 4.6) TIGHTENED TO A SNUG FIT
 - SNOOTH: 88/S SHALL BE HIGH STRENGTH BOLTS TO AS1252 TIGHTENED TO A SNUG FIT. 88/S SHALL BE HIGH STRENGTH BOLTS TO AS1252 FULLY TENSIONED IN ACCORDANCE WITH ASA100. ALL BOLTS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM OF ONE FULL THREAD BEYOND
- THE TIGHTENED NUT ALL HIGH STRENGTH BOLTED JOINTS SHALL BE CLEARLY AND PERMANENTLY MARKED AS TB OR TE S5.
- BEFORE ASSEMBLY. 56
- PERMANENT MARKS SHALL BE APPLIED TO ALL ASSEMBLED HIGH STRENGTH BOLTS AND NUTS TO
- \$7
- S8.
- PERMANENT MARKS SHALL BE APPLIED TO ALL ASSEMBLED HIGH STRENGTH BOLTS AND NUTS TO INDICATE SNUG-TIGHT POSITION. ALL WASHERS FOR HIGH STRENGTH BOLTS SHALL BE HARDENED STEEL TO AS1252 EXCEPT FOR SNUG-TIGHT JOINTS WHERE BLACK STEEL WASHERS TO AS1237 MAY BE USED. A FLAT WASHER SHALL BE FITTED UNDER THE ROTATING COMPONENT OF EACH BOLT. ALL TAPERED WASHERS SHALL BE FITTED UNDER THE MON-ROTATING COMPONENT WHERE POSSIBLE. HIGH STRENGTH BOLTS FOR TF & TB JOINTS MUST NOT BE DRIVEN AND MUST NOT BE RE-USED. ALL WELDING TO BE COMPLETED DUDOR TO REDUT TWE S9.
 - WELDING TO BE COMPLETED PRIOR TO BOLTING. ALL BOLT HOLES SHALL BE THE NOMINATED DIA. (D) OF THE FASTENER + 2mm IN DIAMETER. EXCEPT
- ALL BOLT HOLES SHALL BE THE NOMINATED DIA. (D) OF THE FASTENER + 2mm IN DIAMETER, EXCEPT BASEPLATES WHICH SHALL BE D + 6mm, SLOTTED HOLES SHALL ONLY BE USED WHERE SPECIFIED AND SHALL CONSIST OF 2 DRILLED HOLES, WITH PORTION BETWEEN REMOVED U.N.O. BURNING OF HOLES WILL NOT BE ALLOWED.
 SUBSTITUTIONS OF STEEL SECTIONS SHOWN ON THE DRAWING SHALL NOT BE MADE WITHOUT APPROVAL FROM CALARE CIVIL P/L.
 CONCRETE ENCASED STEELEWORK SHALL BE WRAPPED WITH F41 FABRIC AND THE STEELWORK SHALL WAYE A MINIMUM SOMM COVED OF CONCRETE UNLESS CHEPLINE FOR UTED.
- SHALL HAVE A MINIMUM 50MM COVER OF CONCRETE UNLESS OTHERWISE NOTED.
- AFTER FABRICATION THE STEEL SHALL BE CLEARED WITH A POWER WIRE BRUSH TO REMOVE ALL LOOSE RUST, MILL SCALE, WELD SPATTER, WELD SLAG & DIRT AND TREATED AS FOLLOWS:

EMENT	TREATMENT		
	POWER WIRE BRUSH TO CLASS 2.5 AND 2 COATS OF ZINC RICH PRIMER WITH SUITABLE		
L	TOP COAT TO ARCHITECTS OR CLIENTS REQUIREMENTS.		
	ALTERNATIVELY HOT DIP GALVANISE TO AS2312.2		

- S14. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANISED BY THE MANUFACTURER.
- S15. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL. TIMBER TO STEEL WHETHER OR NOT DETAILED ON THE DRAWING
- THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY A QUALIFIED ENGINEER EXPERIENCED IN SUCH SUPERVISION TO ENSURE THAT ALL REQUIREMENTS S16
- A QUALIFIED ENGINEER EXPERIENCED IN SUCH SUPERVISION TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET. WELDS SHALL BE 6MM CONTINUOUS FILLET, ELECTRODES E48XX, ALL BOLTS M20 DIAMETER, ALL GUSSET PLATES AND CLEATS 10MM THICK U.N.O. PROVIDE A SPACE OF 20mm BETVEEN ALL BEAMS/COLUMNS BEARING ON CONCRETE OR MASONRY AND CAULK WITH 2.1 SAND CEMENT MORTAR OF DAMP EARTH CONSISTENCY HARD RAMMED INTO PORCIFICINO IN UPDROVICE CUMPUS COMPUTED THE CONSISTENCY HARD RAMMED INTO
- POSITION OR AN APPROVED SHRINK COMPENSATING GROUT S19. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL REVIEW. FABRICATION
- SHALL NOT COMMENCE UNTIL THE REVIEW HAS BEEN COMPLETED

PAVEMENTS

S18.

S10

- PA1. ALL SUB BASE AND SUBGRADE TO BE PREPARED IN ACCORDANCE WITH THE CIVIL ENGINEERS
- PA2. SUBGRADE IS TO BE MINIMUM 98% STANDARD COMPACTION. PROOF ROLL THE PAVEMENT
- PA2. SUBGRADE IS TO BE MININUM 98% STANDARD COMPACTION. PROOF ROLL THE PAVEMENT AREA TO IDENTIFY ANY SOFT SOTTS AND REMOVE AND RE-COMPACT SOFT SPOTS PA3. ALL FILL AND EARTHWORKS TO BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF AS3978 CURRENT EDITION. ANY FILL SHALL BE COMPACTED TO 98% STANDARD COMPACTION IN LAYERS OF NO MORE THAN 150mm UNLESS OTHERWISE NOTED. A MININUM OF 100mm OF COMPACTED ROADBASE OR CRUSHER DUST IS REQUIRED UNDER PAVEMENTS. PA3. DEFER EXCAVATIONS DUE TO THE PRESENCE OF UNSUITABLE OR SOFT MATERIAL MAY BE BACKFILLED TO A SUITABLE LEVEL (ENSURING THE DESIGN BEAM DEFTH IS STILL ACHIEVABLEU USING LEAN IS MP AMASS CONCERTE AS A BINDING LAYER. PA4. ALL TOPSOIL, ORGANIC MATTER OR SOFT SPOTS SHALL BE REMOVED AND ALL FOOTINGS ADD E DURADED IN. SUITABLE LEVEL CODUND. LAYER.
- PA4. ALL TOPSOIL, ORGANIC MATTER OR SOFT SPOTS SHALL BE REMOVED AND ALL FOOTINGS ARE TO BE FOUNDED IN SUITABLE NATURAL GROUND WITH THE EXCEPTION OF ENGINEERED FILL. COMPLETELY REMOVE AND GRUB OUT ANY TREE ROOTS AND REPLACE WITH COMPACTED FILL AT PROPOSED PAVEMENT LOCATION. PA5. ALL DEBRIS AND RUBBISH INCLUMING REINFORCING AND DOWEL OFFCUTS ARE TO BE REMOVED FROM THE SLAB PRIOR TO THE PLACEMENT OF CONCRETE. PA6. ABELFEX IS TO BE INSTALLED AGAINST ALL EXISTING PAVEMENTS, PITS, KERBS AND BULDING SLABS. ABELFELX STRIP TO BE REMOVED AND SUITABLE MASTIC SEALANT INSTALLED AFTER CURING OF CONCRETE. PA7. ALL POINDEDREFT.

- PA7. ALL REINFORCEMENT IS TO HAVE A MINIMUM OF 40mm COVER. COVER IS TO BE MAINTAINED
- PA7. ALL REINFORCEMENT IS TO HAVE A MINIMUM OF 40mm COVER. COVER IS TO BE MAINTAINED AT SAWCUT LOCATION BY LOCALLY DEPRESSING FABRIC.
 PA8. HIGH IMPACT DAMP PROOF MEMBRANE TO BE INSTALLED UNDER PAVEMENT. ALL JOINTS TO BE LAPPED AND TAPED. IF MEMBRANE IS OMITIED, THE RISK OF SHRINKAGE CRACKING GREATLY INCREASES, AS A MINIMUM THE SUBGRADE TO BE DAMPENED BY A WATER TRUCK TO MINIMISE BLEED WATER LOSS THROUGH THE BASE OF THE SLAB. AWATER TRUCK TO MINIMISE BLEED WATER LOSS THROUGH THE BASE OF THE SLAB. AVATER TRUCK TO MINIMISE BLEED WATER LOSS THROUGH THE BASE OF THE SLAB. ATTAINED SUFFICIENT HARDNESS AND WITHIN 8-12 HOURS OF POUR PA10. ALL DOWELS ARE TO BE INSTALLED PERPENDICULAR TO THE TOP OF THE SLAB. SKEWED DOWELS ARE TO BE INSTALLED PERPENDICULAR TO THE TOP OF THE SLAB. SKEWED DOWELS ARE TO HAVE A SUITABLE BOND BREAKER ON ONE END PA12. CONCRETE IS TO BE CONTINUALLY QUEDE FOR A MINIMUM OF 4D PAYS BY APPLICATION OF A

- PA12 CONCRETE IS TO BE CONTINUALLY CURED FOR A MINIMUM OF 14 DAYS BY APPLICATION OF A SUITABLE CURING COMPOUND AND DAILY PERIODIC WETTING

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ENGINEERS AUSTRALIA NUMBER:

JOB NUMBER

AS SHOWN

30-09-20

AD Ref:

مادء

By Date

Description

Designed

Approved for Construction:

FOUNDATIONS

F3.

F4

E5

F7

F9.

F10.

F12.

F14.

F16.

L1.

L2.

L7.

L8.

S1

S2

S3

S4

S5

S6

PROPOSED REFURBISHMENT 70 GASKILL STREET CANOWINDRA NSW 2804

NOTES SHEET 1 OF 2

CABONNE SHIRE COUNCIL

RESIDENTIAL SLARS AND EDOTINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS2870 2011 RESIDENTIAL SLABS AND FOOTINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH A52870.2011. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 150 kPa. IF REQUIRED PIERS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 250 kPa. ALL TOPSOIL, ORGANIC MATTER OR SOFT SPOTS SHALL BE REMOVED AND ALL FOOTINGS ARE TO BE FOUNDED IN SUITABLE NATURAL GROUDD WITH THE EXCEPTION OF ENGINEERED FILL. COMPLETELY REMOVE AND GRUB OUT ANY TREE ROOTS AND REPLACE WITH COMPACTED FILL AT PROPOSED BUILDING LOCATION. SUBGRADE IS TO BE MINIMUM 95% STANDARD COMPACTION. PROOF ROLL THE BUILDING PAD

SUBGRADE IS TO BE MINIMUM 95% STANDARD COMPACTION. PROOF ROLL THE BUILDING PAD TO IDENTIFY ANY SOFT SPOTS AND REMOVE AND RE-COMPACT SOFT SPOTS ALL FILL AND EARTHWORKS TO BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF AS3978 CURRENT EDITION. ANY FILL SHALL BE COMPACTED TO 95% STANDARD COMPACTION IN LAYERS OF NO MORE THAN 150mm UNLESS OTHERWISE NOTED. A MINIMUM OF 100mm OF COMPACTED ROADBASE OR CRUSHER DUST IS REQUIRED UNDER SLABS. DEEPER EXCAVATIONS DUE TO THE PRESENCE OF UNSUITABLE OR SOFT MATERIAL MAY BE BACKFILLED TO A SUITABLE LEVEL (ENSURING THE DESIGN BEAM DEPTH IS STILL ACHIEVABLEJ USING LEAN 15 MPA MASS CONCRETE AS A BLINDING LAYER. ALTERNATIVELY CONTACT FRUIPER FOR DEPER SETDIT

CONTACT ENGINEER FOR PIER SETOUT. EXCAVATION IS NOT TO OCCUR PRIOR TO RAINFALL EVENTS TO PREVENT WATER PONDING

EXCAVATION IS NOT TO OCCUR PRIOR TO RAINFALL EVENTS TO PREVENT WATER PONDING IN EXCAVATIONS. ON NO ACCOUNT SHOULD WATER BE ALLOWED TO POND IN THE BUILDING AREA IMMEDIATELY BEFORE, DURING OR AFTER CONSTRUCTION. TREES AND SHRUES SHOULD NOT BE PLANTED WITHIN A DISTANCE EQUAL TO THE FULL GROWN TREE HEIGHT, AWAY FROM THE BUILDING, FURTHER PROTECTION FROM TREES MAY BE GAINED BY INSTALLATION OF A ROOT BARRIER. GARDEN BEDS SHOULD NOT BE LOCATED DIRECTLY ADJACENT TO THE FUL BUILDINGS ON REACTIVE CLAY SITES (CLASS S, M, H, EI MAY EXHIBIT MINOR AESTHETIC (RACKING, IF PROPER SITE MANAGEMENT PROCEDURES ARE ADHERED TO, SUCH DAMAGE WILL BE MINIMUSED. WILL BE MINIMISED.

WILL BE MINIMSED. CARE IS TO BE TAKEN TO ENSURE THE ZONE OF INFLUENCE FROM THE FOOTING DOES NOT IMPACT ADJACENT STRUCTURES SUCH AS RETAINING WALLS, EXISTING BUILDING OR MAINS. SIMILARLY, THE FOOTING EXCAVATION IS NOT TO UNDERMINE THE ZONE OF INFLUENCE OF EXISTING ADJACENT STRUCTURES WITHOUT SUITABLE SUPPORT BEING PROVIDED TO THE EXISTING STRUCTURE FIRST. TIME BETWEEN EXCAVATION OF BEAMS AND POURING OF CONCRETE SHOULD BE MINIMISED TO DEVENT MONSTUPE CHANGES IN THE FORMUME MATERIAL

PREVENT MOISTURE CHANGES IN THE FOUNDING MATERIAL. ALL FOOTINGS ARE TO HAVE A WITNESS INSPECTION OF THE REINFORCEMENT TO ENSURE

CORRECT PLACEMENT, ARRANGEMENT AND COVER OF REINFORCEMENT. WITNESS INSPECTIONS ARE TO BE COMPLETED EITHER BY THIS OFFICE WITH 48 HOURS NOTICE OR BY SUITABLE QUALIFIED CERTIEVING AUTHORITY.

AULLIFED CERTFYING AUTHORITY. ALL DEBRIS AND RUBBISH INCLUDING REINFORCING AND POD OFFCUTS ARE TO BE REMOVED FROM THE SLAB PRIOR TO THE PLACEMENT OF CONCRETE. ALL PIER HOLES SHALL HAVE ALL LOOSE MATERIAL REMOVED FROM THE BASE PRIOR TO THE PLACEMENT OF CONCRETE. IN THE EVENT OF GROUNDWATER INGRESS ALL WATER IS TO BE PUMPED OUT IMMEDIATELY PRIOR TO THE PLACEMENT OF CONCRETE.

I INTELS

ALL LINTELS TO BE STRUCTURALLY DESIGNED TO COMPLY WITH THE STRENGTH

ALL LINTELS TO BE STRUCTURALLY DESIGNED TO COMPLY WITH THE STRENGTH REQUIREMENTS OF AS170, AS3700 AND AS4737 CURRENT EDITIONS ALL LINTELS SUPPORTING MASONRY SHALL HAVE A MINIMUM BEARING LENGTH OF 100mm EACH END FOR LINTELS SPANNING UP TO 1000mm AND 150mm EACH END FOR ALL OTHER LINTELS MASONRY SHALL NOT OVERHANG THE LINTEL WIDTH BY MORE THAN 25mm UNEQUAL STEEL ANGLES ARE TO HAVE THE LONGER LEG VERTICAL IF USED ALL LINTELS TO BE HOT DIP GALVANISED AND COMPLY WITH AS/NZS 2699.3 ANY GAP BETWEEN THE VERTICAL LEG AND THE MASONRY SHALL BE PACKED WITH MORTAR IN ACCORDANCE WITH AS47731.

GALINTELS OR ANY OTHER PROPRIETARY LINTELS (IF USED) SHALL BE INSTALLED AS PER THE

MANUFACTURER'S SPECIFICATION. CARE IS BE TAKEN AT ALL TIMES TO MAINTAIN THE BUILDING IN A SAFE CONDITION, AND THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THE SUPPORTED WALLS SHOW ANY SIGNS OF MOVEMENT

DRAWING INDEX

DRAWING No. TITI F

NOTES SHEET 1 OF 2 NOTES SHEET 2 OF 2 SLAB AND FOOTING MARKING PLAN SLAB AND FOOTING DETAILS ROOF MARKING PLAN STEELWORK DETAILS

	FOR TE 31/10/		2	
CALARE		Job No.	22.0	467
 CO 170 RANKIN STREET,	NSULTING ENGINEERS	dwg. no. S1	lssu C	e
BATHURST, N.S.W. 2795 Tel: (02) 63323343 Fax: (02) 6	3318210	No. in set	6	

SAFETY IN DESIGN

- SIDI. THE SAFETY RISK MITIGATION ITEMS BELOW ARE BASED ON CALARE CIVIL'S DESIGN OFFICE EXPERIENCE AND DO NOT NECESSARILY ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION SAFETY RISKS. BASED ON INFORMATION AVAILABLE WHEN THIS DRAWING WAS MADE IN ITS CAPACITY AS DESIGNER ONLY CALARE CIVIL HAS TRIED TO IDENTIFY DRAWING WAS MADE, IN ITS CAPACITY AS DESIGNER ONLY, CALARE CIVIL HAS TRIED TO IDENTIFY SAFETY RISKS PERTAINING TO CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITON PHASES OF THE ASSET. INCLUSION IOR NOTI OF ANY ITEM DOES NOT REDUCE OR LIMIT OBLIGATIONS OF CONSTRUCTOR, USER, MAINTAINER AND DEMOLISHER TO UNDERTAKE APPROPRIATE RISK MANAGEMENT ACTIVITIES TO REDUCE RISK AND IS NOT AN ADMISSION BY CALARE CIVIL THAT INCLUSION OF ANY ITEM IS THE DESIGNER'S RESPONSIBILITY. CONSTRUCT BUILDING ELEMENTS THAT CONTRIBUTE TO SAFETY, SUCH AS HANDRAILS AND TOE BOARDS, FALL ARREST SYSTEMS, ACCESS STAIRS, etc AS EARLY AS POSSIBLE AND IN ACCORDANCE WITH NEY CALE WORD STATITORY DEDIMEMENTS.
- SID2. ACCORDANCE WITH NSW SAFE WORK STATUTORY REQUIREMENTS. PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND FLEVATED AREAS
- SID3 SID4
- PROVIDE SAFET I DARRIERS AT EDUES OF OFENINGS AND ELEVATED AREAS. REVIEW ADGUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, INCLUDING MOVEMENTS OF BOTH. LOCATE LIFTING SLEW AND LAY DOWN AREAS AWAY FROM REGULAR CONSTRUCTION TRAFFIC. PROVIDE PROTECTION TO PERSONNEL FROM PLANT AND EQUIPMENT, INCLUDING POST-TENSIONED SID5 SID6
- GROUND ANCHOR INSTALLATION WORKS. ENSURE ISOLATION SAFE SYSTEMS OF WORK OR PROTECTIVE MEASURES ARE INSTALLED BEFORE SID7. WORKING NEAR LIVE ELECTRICAL INFRASTRUCTURE. PROVIDE PROTECTION OF ELECTRICAL
- WORTHEAD WIRING SYSTEMS DURING CONSTRUCTION. SID8 SID9
- SID10.
- WRITIEN RISK ASSESSMENTS ARE ADVISED FOR ACLESS TO OPEN EXCAVATIONS. PROVIDE ACCESS AND EGRESS TO EXCAVATIONS APPROPRIATE IN CASE OF INUNDATION, COLLAPSE OR ENGULFMENT. LOCATE STOCKPILES AND HEAVY EQUIPMENT INCLUDING CRANES AWAY FROM BURIED SERVICES AND BUILDING BOUNDARIES WHERE ADJACENT BASEMENTS ARE PRESENT. SECK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL OR STRUCTURAL ENGINEER PRIOR TO OPERATION OF HEAVY SUBFACE PLANT AND EQUIPMENT OR STOCKPILING MATERIAL NEAR OPEN EXCAVATIONE OPERVIENT GETAINING STULFTURES SID11.
- EXCAVATIONS OR EXISTING RETAINING STRUCTURES. DO NOT STOCKPILE MATERIALS BEHIND OR EXCAVATE IN FRONT OF EXISTING RETAINING WALLS SID12
- SIDIZ. DD NOT STOCKPILE MATERIALS BEHIND OR EXCAVATE IN FRONT DF EXISTING RETAINING WALLS UNTL WALL STABLITY HAS BEEN REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER SIDI3. SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LAYING SERVICES BELOW EXISTING FOOTING LEVELS.
 SIDI4. HAVE LOAD CAPACITY OF STRUCTURES VERIFIED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LOADING OR STORING MATERIALS ON EXISTING OR PARTIALLY COMPLETED CONVENTION OF UNDERVIEWED. STRUCTURAL ELEMENTS.
- SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER IF PLANNING CRANE LIFTS OR SID15 HOIST INSTALLATION ON PARTIALLY ERECTED OR SUSPENDED STRUCTURES. SID16. SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE CORING, CHASING,
- SIDI6. SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE CORING, CHASING, CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT.
 SIDI7. HAVE SUITABLY QUALIFIED STRUCTURAL ENGINEER UNDERTAKE STRUCTURAL CHECK OF EXISTING CONCRETE, MASONRY AND STUD WALLS WHERE FIXINGS OR EQUIPMENT IS TO BE ATTACHED.
 SIDI8. INSTRUCT SERVICES CONTRACTORS UNDER NO CIRCUMSTANCES CAN STRUCTURAL MEMBERS BE CUT, NOTCHED OR DRILLED TO ACCOMMODATE NEW SERVICES.
 SIDI9. ESTABLISH LOCATIONS OF LIVE EMBEDDED SERVICES BEFORE CUTTING THROUGH SLABS, etc.
 SID19. ESTABLISH LOCATIONS OF LIVE EMBEDDED SERVICES BEFORE CUTING THROUGH SLABS, etc.
- SID20. DEVELOP STEELWORK / PRECAST / TILT UP INSTALLATION SAFE WORK METHOD STATEMENT TO ELIMINATE AND MINIMISE INSTALLATION RISKS, AND HAVE REVIEWED BY SUITABLY QUALIFIED
- STRUCTURAL ENGINEER PRIOR TO ERECTION SID21. DO NOT CUT OR UNBOLT ANY STRUCTURAL MEMBERS WITHOUT SEEKING REVIEW BY SUITABLY
- DU NOT COT COT OR ONDOLL ANT STRUCTURAL PILITORS WITHOUT SECURING ELECTION DE DISCUSSION DUALIFIED STRUCTURAL ENGINEER. PROVIDE BUCKLING STABILITY TO LONG SPAN BEAMS, TRUSSES etc DURING ERECTION. IF UNSURE, CHECK WITH SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO LIFTING AND INSTALLATION. MINIMIZE SITE BASED TREATMENTS (eg WELDING, CUTTING, SPRAY PAINTING, GRIT BLASTING, DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DUALITY ATTOM TO MINIMIZE HE ATA DESCRIPTION OF DUALITY. SID22.
- SID23. etc). PROVIDE ADEQUATE PROTECTION, SCREENING AND VENTILATION TO MINIMIZE HAZARDS TO PERSONNEL IE SITE BASED TREATMENT IS UNAVOIDABLE
- TRY TO AVOID WORKING IN CONFINED SPACES IE CONFINED SPACES WORK CAN'T BE AVOIDED. SID24 SID24. TRY TO AVOID WORKING IN CONFINED SPACES. IF CONFINED SPACES WORK CAN'T BE AVOIDED, PROVIDE SAFE WORK METHOD STATEMENT ADDRESSING MITIGATION OF RISKS. PROVIDE ADEQUATE SIGNAGE TO TEMPORARY AND PERMANENT CONFINED SPACES TO AS2865.
 SID25. AVOID HOT WORKS ON SITE PARTICULARLY IN TIMBER FRAMED STRUCTURES. HOT WORKS TO COMPLY WITH CLIENT PROCEDURES FOR APPLICABLE "HOT WORKS PERMITS".
 SID26. DETERMINE APPROPRIATE METHOD OF PAINT REMOVAL AND DISPOSAL BEFORE STRIPPING PAINT, PARTICULARLY ON HISTORIC STRUCTURES. CONTINNING COAL TAR EPOVICES, BITUMENS AND CONTINUES CONTINUING COAL TAR EPOVICE.
- AND ASPHALTS, ZINC CHROMATE AND LEAD PRESENT A HEALTH RISK, PROVIDE SCREENING TO PUBLIC AND ENVIRONMENT FOR PAINT REMOVAL AND CLEANING OPERATIONS. USE ENVIRONMENTALLY APPROPRIATE RESTORATION METHODS DURING MAINTENANCE AND REPAIR
- SID27. MAKE WORK AREAS SAFE WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKED OR HAVE SUFFERED SIGNIFICANT SECTION LOSS BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS. REPORT SIGNIFICANT SECTION LOSS OR CORROSION FLAKING BEFORE STARTING PAINTING OR SID28
- SIDEO, REPORT SIGNIFICATI SECTION LOSS OF CORROSION FLANING DEFORE STAINING PARA INTO PARA INTO PARA INTO PARA REPARES, CONSULT SUITABLY QUALIFIED STRUCTURAL ENGINEER IF SECTION LOSS OR EXTENSIVE CORROSION FLAKING PRESENT BEFORE PROCEEDING WITH WORK. SIDEO, DEVELOP AND IMPLEMENT RISK WITIGATION STRATEGIES BEFORE ALLOWING ACCESS OVER
- SUSPENDED CLADDING EINISHES THAT MAY BECOME BRITTLE OVER TIME SID30. REPORT LOOSE OR MISSING BOLTS etc IN CONNECTIONS ENCOUNTERED DURING DAY TO DAY
- UPERATIONS. SID31. REMOVE MATERIAL FROM STORAGE STRUCTURES BEFORE UNDERTAKING MAINTENANCE WORK. SID32. ALL STRUCTURES SHOULD BE TEMPORARILY BRACED DURING ERECTION TO ENSURE THEY REMAIN IN A STABLE STATE UNTIL SUCH TIME THAT THE PERMANENT BRACING CAN BE INSTALLED.
- SID33. SCAFFOLDING IS TO BE USED FOR ACCESS ONLY AND NOT USED AS A MEANS OF TEMPORARY
- SID33. SLAFFULING IS TU BE USED FOR ALLESS UNLT AND NOT USED AS A MEANS OF TEMPORARY BRACING OF A STRUCTURE, UNLESS DESIGNED AND CETRIFIED ACCORDINGLY.
 SID34. ALL TEMPORARY FORMWORK, FALSEWORK AND ANY PROPPING IS TO BE CERTIFIED BY A SUITABLY QUALIFIED STRUCTURE. UNIVERSE MODEOUACY PROVING TO INSTALLATION.
 SID35. UNDER NO CIRCUMSTANCES SHALL STRIPPING OF FORMS COMMENCE OR PROPPING BE REMOVED FROM IN-SITU CONCRETE POURS UNTIL ADEQUATE DESIGN STRENGTHS HAVE BEEN REALFIED AND VERIFIED THROUGH TESTING.
 SID36. UNDER NO CIRCUMSTANCES SHALL DEMOLITION OF PARTIAL DEMOLITION OF A STRUCTURE OCCUR INTIL A STRUCTUREL FEMILY
- UNTIL A STRUCTURAL ENGINEER HAS BEEN CONSULTED ON THE PROPOSED METHOD AND EXTENT OF DEMOLITION WORKS, AT ALL TIMES DURING DEMOLITION THE STRUCTURE IS TO REMAIN IN A STABLE STATE AND NO FLEMENT SHALL BE OVERSTRESSED
- STABLE STATE AND NO ELEMENT SHALL BE UVERSTRESSED. ALL HIGH-RISK WORK INCLUDING USE OF CRANES, HOISTS, LIFTING EQUIPMENT, SHAFT OR TRENCH EXCAVATION, CONFINED SPACES, WORKING AT HEIGHTS AND HOT WORK SHOULD ONLY BE CARRIED OUT AND SUPERVISED BY SUITABLY QUALIFIED PERSONS WHO HAVE COMPLETED THE RELEVANT COURSES BY AN APPROVED RTO. WHERE THE SPACING OF ROOF STRUCTURAL ELEMENTS EXCEEDS 600MM IN BOTH DIRECTIONS, SAFETY MESH IS TO BE INSTALLED ON ROOF ELEMENTS TO REDUCE RISK OF FALLS FOR RIGGERS AND OTHER TRADES WORKING ON POOR AFEAS SID37
- SID38 AND OTHER TRADES WORKING ON ROOF AREAS

SD

G.L.

By Amend

Date

OT INFO: S:\2022\20220467\Structural\ 20220467-S-REV C.dwg, DATE: Nov 25,2024 - 10:26:00an

REVISIONS CLOUDED

ISSUE FOR TENDER

ISSUE FOR DEVELOPMENT APPLICATION

Description

25-11-24

31-10-24

06-05-24

Amend Date

CONCRETE MASONRY

- CM1. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF AS1500. ALL BLOCKWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT SAA CODE
- THE DESIGN STRENGTH OF BLOCKWORK SHALL BE 15 MPa WITH M3 MORTAR MIX IN THE RATIO OF CM3 1:1:6 (CEMENT:LIME:SAND) LIME CANNOT BE SUBSTITUTED BY CHEMICAL PLASTICISERS.
- 1:16 (CEMENTLINE/SAND). LINE CANNOT BE SUBSTITUTED BY CHEMICAL PLASTICISERS CONCRETE FOR FILLING CORES WHERE REQUIRED SHALL HAVE A DESIGN STRENGTH AT 28 DAYS OF f'=20MPa AND A SLUMP OF 125mm WHEN BEING PLACED WITH 10mm MAXIMUM SIZE OF AGGREGATE. CLEANNG OF CORES. LEANING OF CORES. APPROVED JOINT REINFORCEMENT SHALL BE LAID IN HORIZONTAL JOINTS AT A MAXIMUM OF 600mm CENTEGE WITH ANDITIONAL AVEC DIRECTLY AROVE AND REI DU VINDUA AND PCOR ORCHWICE. CM4. CM5.
- CM6.
- CENTRES WITH ADDITIONAL LAYERS DIRECTLY ABOVE AND BELOW WINDOW AND DOOR OPENINGS. CM7. WALL TIES FOR BRICKWORK AND BLOCKWORK CAVITY WALLS SHALL COMPLY WITH AS/NZS 2699.1
- TIES ARE TO BE MEDIUM DUTY MINIMUM AND SPACED AT MAXIMUM 600mm CENTRES BOTH HORIZONTALLY AND VERTICALLY
- HORIZONIALLY AND VERTICALLY CM8. WHERE BLOCKWORK SUPPORTS CONCRETE SLABS THE TOP COURSE SHALL BE COVERED WITH TWO LAYERS OF ALCOR OR FOULVALENT. CM9. WHEN LAYING BLOCKS, FACE SHELLS AND PERPENDS SHOULD BE FULLY BEDDED IN THE MORTAR. CM10. REINFORCEMENT MUST BE POSITIONED ACCURATELY AND TIED SECURELY BEFORE PLACING CONCRETE OR GROUT.
- CM11. VERTICAL REINFORCING BARS, INCLUDING STARTER BARS, SHOULD BE AS CLOSE AS POSSIBLE TO THE CENTRE OF THE WALL UNLESS NOTED OTHERWISE, CONSISTENT WITH COVER REQUIREMENTS. CM12. MORTAR FINS PROTRUDING INTO CORES SHOULD BE REMOVED BEFORE GROUTING.
- CLEANOUT OPENINGS SHOULD BE PROVIDED IN THE BOTTOM COURSE. IN ALL REINFORCED
- LEMAGE LEARNOFT OPENINGS SHOULD BE PROVIDED IN THE BOTTOM COUNSE, IN ALL REINFORCED CORES, TO PERMIT REMOVAL OF MORTAR FINS AND OTHER DEBRIS, AND TO ALLOW POSITIONING AND TYING OF VERTICAL REINFORCEMENT. THESE OPENINGS MUST BE CLOSED BEFORE GROUTING. CM14, IT IS RECOMMENDED THAT READY-MIXED GROUT SHALL BE USED. CM15, ALL CORES SHOULD BE FILLED WITH GROUT HE REINFORCED AND RODDED TO ENSURE THERE ARE NO VOIDS IN ANY CAVITY OR CORES OF THE WALL. CM16, EXPANSION JOINTS AND CONTROL JOINTS ARE TO BE CONSTRUCTED AT 6000mm CENTRES LINDOW AND CANTERNA AND CONTROL JOINTS ARE TO BE CONSTRUCTED AT 6000mm CENTRES U.N.O.
- CM17. THE GROUT SHALL BE COMPACTED THOROUGHLY SO THAT VOIDS ARE NOT LEFT. COMPACTION SHALL BE BY RODDING WITH A PLAIN ROUND BAR (DO NOT USE MAIN VERTICAL REINFORCING BARS
- SHALL BE BY RODING WITH A PLAIN ROUND BAR (DO NOT USE MAIN VERTICAL REINFORMS BARS) OR OTHER DEFORMED BARS) OR WITH A HIGH FREQUENCY PENCLU VIBRATOR USED CAREFULLY. (M18. THE HEIGHT OF ANY SINGLE LIFT OF GROUTING SHOULD NOT EXCEED 30 TIMES THE MINIMUM CORE DIMENSIONS OR 3.0m TOTAL WALL HEIGHT, WHICHEVER IS LESS IN A 72 HOUR PERIOD. LIFTS SHOULD BE COMPLETED IN SSOOMIN INCREMENTS WITH 60 MINISTE BETWEEN THE PROCEEDING LIFT. (M19. WALLS SHALL NOT BE CONSTRUCTED OVER ANY SUSPENDED CONCRETE UNTIL THE SUPPORTING
- CONCRETE HAS CURED. CM20. IF ANY SHRINKAGE OF THE CORES IS TO OCCUR, THE TOP COURSE SHALL BE FILLED WITH SELF
- CHEAN I SHIRINGAL OF THE CORES IS TO OLCOR, THE TOP COURSE SHALL BE FILLED WITH SEF EVELLING-HIGH STRENGTH GROUT TO ENSURE ABCQUATE BEARING TO THE TOP SIDE OF THE WALL. (2011. ALL BLOCKS SHALL BE CONSTRUCTED WITH THE APPROPRIATE BLOCK TYPE, INCLUDINGKNORCHOUTS, CHANNEL, LINTEL, CONTROL JOINT WHERE REQUIRED FOR THE RELEVANT BLOCK CODINGS. BLOCK CODING MAY BE OBTAINED FROM CONCRETE MASONRY ASSOCIATION AUSTRALIA (CMAA) FOR THE ADDITION OF A STREED OF THE STREED OF THE RELEVANT BLOCK CODINGS. BLOCK CHANNEL BLOCK SERVICE OF STREED OF THE MELTING AUSTRALIA (CMAA) FOR THE ADDITION OF A STREED OF THE STREED OF THE RELEVANT BLOCK CODINGS. BLOCK CHANNEL SELVICE SERVICE OF STREED OF THE MELTING AUSTRALIA (CMAA) FOR THE ADDITION OF A STREED OF A STR APPLICABLE BLOCK SERIES. CM22. ALL REINFORCEMENT SHALL BE INSPECTED BY A SUITABLY QUALIFIED ENGINEER PRIOR TO CORE
- FILLING. CM23. LAP LENGTHS IN BAR REINFORCEMENT SHALL BE MADE IN ACCORDANCE WITH THE FOLLOWING TABLE:

	AL CONTROL NO AN ACTION ONCE TENT STALE DE TR		
BAR DIAMETER	LAP (mm)		
N12	800		
N16	1000		
N20	1300		

BONDEK NOTES

Description

- BD1. MATERIAL- COLD FORMED ZINC HI-TEN STEEL STRIP TO AS1397 G550-Z450. SIDE LAPS SHALL BE INTERLOCKING TYPE WITH THE FEMALE SIDE FLANGE FULLY LAPPING THE MALE SIDE FLANGE OF THE ADJOINING PANEL AND FORMING A SEAL TO PREVENT THE FLOW OF
- SHALL BE INTERCORNING TIPE WITH THE PERHALE SIDE FLANCE OF LAPPING THE PADE
 SIDE FLANCE OF THE ADJOINNED PANEL AND FORMING A SEAL TO PREVENT THE FLOW OF CONCRETE THROUGH THE JOINT.
 BD2. STORAGE AND HANDLING: IF NOT REQUIRED FOR IMMEDIATE USE, BUNDLES SHOULD BE STACKED CLEAR OF THE GROUND WITH A FALL FOR DRAINAGE AND PROTECTED BY WATERPROOF COVERS. CARE MUST BE TAKEN IN THE HANDLING OF LONG LENGTH BUNDLES. WHEN LIFTING, IT IS RECOMMENDED THAT AN APPROPRIATE BEAM WITH SEVERAL LIFTING POINTS AND CAREFULLY LOCATED AND PACKED SLINGS, BE USED.
 BD3. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANDFACTURERS' INSTRUCTIONS. WHEN CUTTING, PANELS SHOULD BE TURNED OVER WITH THE RIBS DOWNWARD. WHERE HOLES ARE TO BE CUT FOR PIPES, CONDUITS, ETC., THE USE OF A HOLE SAW IS RECOMMENDED PANELS SHOULD BE ACCURATELY ALIGNED, SIDE LAPS FULLY LAPPED AND THE GAP BETWEEN ABUTTING ENDS KEPT TO A MINIMUM. PROVISIONS SHOULD BE MADE SO THAT ALL PANELS HAVE FULL END AND INTERMEDIATE BEARING SUPPORTS ON THE BUILDING FRAMEWORK. FOR BOTH PERMANENT AND TEMPORARY SUPPORTS, THERE SHALL BE A MINIMUM BEARING OF 50mm AT THE ENDS AND 100mm AT INTERNAL SUPPORTS. SHALL NOT BE JONDED BETWEEN SHALL NOT BE JONDED BETWEEN SHALL NOT BE JONDED BETWEEN SLABS UNDED STALES SHALL NOT BE JONDED BETWEENE SHALL BE AN MINIMUM BEARING OF SOMM ARD. SHOULD BE TAKEN SUPPORTS.
 B04. PROPING: FORMWORK PROPS SHALL REMAIN IN POSITION FOR A MINIMUM OF 14 DAYS AFTER POURNG CONCRETE. WHERE SLABS AND BEAMS ARE TO SUPPORTS.
 B04. PROPING: FORMWORK PROPS SHALL REMAIN IN POSITION FOR A MINIMUM OF 14 DAYS AFTER POURNG CONCRETE. WHERE SLABS AND BEAMS ARE TO SUPPORTS.
- AFTER POURING CONCRETE. WHERE SLABS AND BEAMS ARE TO SUPPORT WALLS OVER. THE PROPS MUST BE REMOVED PRIOR TO CONSTRUCTION OF THESE WALLS. MAXIMUM SPACINGS OF ROWS OF PROPS SHALL BE ISDOmm UNLESS OTHERWISE NOTED. PROPPING SHALL CONSIST OF SUBSTANTIAL TIMBER OR STEEL BEARERS SUPPORTED BY LINES OF PROPS INSTALLED TO PREVENT SETTLEMENT DURING THE PLACEMENT AND CURNG OF THE CONCRETE. PROPPING SHALL BE DESIGNED TO SUPPORT CONSTRUCTION LOADS AND THE MASS OF WET CONCRETE. SIDE LAP JOINTS SHALL BE FASTENED TO PREVENT MOVEMENT DURING CONSTRUCTION. PREPARATION FOR CONCRETING. PANELS, PARTICULARLY THE RIBS, SHALL BE CLEANED FREE OF ALL DEBRIS GREASE, OIL, OR ANY OTHER SUBSTANCE WHICH COULD ADVERSELY AFFECT THE BOND. WHERE IT IS DESIRABLE TO PREVENT WET CONCRETE FROM SEEPING THROUGH THE END OF ABUITING PANELS, THE GAP BETWEEN RIBS SHOULD BE SEALED WITH A WATERPROOF ADHESIVE TAPE.
- BD6.
- THE END OF ABUITING PANELS, THE GAP BETWEEN RIBS SHOULD BE SEALED WITH A WATERPROF ADHESIVE TAPE. CONCRETE: THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa. AT 28 DAYS AND SHALL COMPLY TO THE REQUIREMENTS OF CONCRETE STRUCTURES CODE AS3600, OR AS NOTED OTHERWISE. TO ENSURE GOOD WORKABILITY AND OPTIMUM BONDING OF THE CONCRETE TO THE GALVANISED SURFACE, IT IS RECOMMENDED THAT THE SPECIFIED MIXTURE SHALL HAVE A MAXIMUM SLUMP OF 75-100MM WHERE THE CONCRETE IS COMPACTED BY HAND, AND 50-75MM IF VIBRATORS ARE USED. ADDITIVES. ADMINISTRE CONTAINING A CONTAINING BD7
- BD8. ADDITIVES: ADMIXTURES CONTAINING CALCIUM CHLORIDE OR OTHER CHLORIDE SALTS MUST NOT BE USED.
- NOT BE USED. BD9. PLACING OF CONCRETE: CONCRETE SHALL BE PLACED IN ACCORDANCE WITH CONCRETE STRUCTURES CODE AS3600. THE PLACING OF CONCRETE SHALL BE CONTINUOUS. DURING PLACING OF CONCRETE, EXCESSIVE LOAD CONCENTRATIONS SHALL BE AVDIDED AND PLANKS SHALL BE USED FOR WHEELBARROWS AND LIKE EQUIPMENT. BD10. CURING: THE CONCRETE SHALL BE ALLOWED TO CURE BY COVENING THE CONCRETE WITH BLACK PLASTIC AND KEEPING THE CONCRETE WET UNDER THE PLASTIC. THE SHALL BE COVERED FOR A MINIMUM OF FOURTEEN (14) DAYS. BD11. SHEAR CONNECTORS: WHEELBARE SHEAR CONNECTORS ARE SHOWN ON THE DRAWINGS, THE BONDRECTORS: WHEELBARE WITH 10mm (LEADANCE PDIDE TO FEID ONE THE DIDE THE
- BONDEK IS TO BE CUT ON SITE WITH 10mm CLEARANCE PRIOR TO FIELD WELDING THI CONNECTORS

By Amend

Date

FORMWORK

- ALL FORMWORK SHALL BE DESIGNED AND CERTIFIED BY AN EXPERIENCED STRUCTURAL ENGINEER AND CONFORM TO F1. THE REQUIREMENTS OF AS3610 CURRENT EDITION. FORMWORK WILL BE DESIGNED TO ACCOMMODATE FOR DYNAMIC LOADS, RATE OF LIFTS AND TEMPERATURE OF F2.
- CONCRETE AND ANY OTHER LOADING EXPECTED TO BE EXPERIENCE DURING THE POUR AND EARLY STAG
- CONCRETE AND ANY OTHER LOADING EXPECTED TO BE EXPERIENCE DURING THE POUR AND EARLY STAGE CONSTRUCTION LOADING OF THE CONCRETE DURING MITIAL CURING. PROPPING OR SUPPORTING FORMWORK ON EXISTING STRUCTURES WILL TAKE INTO CONSIDERATION THE STRUCTURAL ADEQUACY OF THESE ELEMENTS TO SUSTAIN THE LOADS IMPOSED BY THE PROPS OR FORMWORK, IT IS NOTED THAT SUSPENDED SLABS MAY NEED TO BACKPROPPED TO FOUNDATIONS AND DESIGN SHOULD ACCOUNT FOR THE STRUGTION CONCRETE IF PROPPED PRIOR TO THE CONCRETE REACHING 28 DAYS OF CURING. CONTRACTOR TO NOTIFY AND SECK APPROVAL. FROM CALARE CIVIL PTY. LTD. IF IS PROPOSED TO USE ANY ADJACENT STRUCTURE DESIGNED BY CALARE CIVIL PTY. LTD. AS A FORMWORK SUPPORT (LASS OF SUBACE EMINGS IN OR IN A TO MORE WITH SOFTICATION MANG BY THE PONIFY ADJINETED
- F4. CLASS OF SURFACE FINISH IS TO BE IN ACCORDANCE WITH SPECIFICATION MADE BY THE PROJECT ARCHITECT
- FORMWORK TO BE DESIGNED AND CONSTRUCTED SUCH THAT A MINIMUM CLASS 3 FINISH IS ACHIEVABLE ON ALL
- FUNCTIVIENT LO DE DESIGNED AND CONSTRUCTED SUCH THAT A MINIMUM LLASS 5 MINIST IS ACHTEVADE UM ALL EXPOSED SUFAREAS OF THE CONCRETE ELEMENTS. RELEASE AGENTS (AS DEFINED IN ASSÃIO CURRENT EDITION) SHOULD BE APPLIED TO FACE OF FORMS AND PLACING REMENDERCEMENT TO ALD IN STRIPPING OF FORMS AND TO ALD IN ACHTEVING REQUIRED SUBFACE LLASS FINISH RELEASE AGENT WILL TAKE INTO CONSIDERATION ANY ADVERSE EFFECTS OF POST SURFACE TREATMENT
- REQUIRED BY THE ARCHITECTURAL PLANS. 25mm BEVEL EDGE FINISH TO BE PROVIDED INTERSECTION OF FORMS
- DRIP GROOVES TO BE INSTALLED ON UNDERSIDE OF EXPOSED SLAB EDGES. ALL WATER, DUST, DEBRIS AND ANY OTHER CONTAMINANTS ARE TO BE REMOVED PRIOR TO POURING OF CONCRETE
- ALL WATCH, DOST, DEDRIS AND AND STILL CONTAINING AN SAAL TO DE RETIGIOUE PRIOR TO FORMA OF TOWING OF CONCALLE. HORIZONTAL FORMS SHALL NOT BE REMOVED UNESS APPROVAL AS BEEN OSTAINED FROM THE OSGION ENDIRED. FORMS FOR VERTICAL SURFACES MAY BE STRIPPED IN ACCORDANCE WITH THE FOLLOWING TABLE. NOTE THAT SURFLARGE LOADS ARE NOT TO BE APPLIED TO THESE ELEMENTS UNLESS APPROVAL IN WRITING HAS BEEN

VERTICAL FACE FORMWORK MINIMUM STRIPPING TIMES AFTER CASTING					
CLASSIFICATION	AVERAGE TEMPERATURE				
LLASSIFICATION	ABOVE 20 DEGREES	12-20 DEGREES	5-12 DEGREES		
CLASSES 1-3	1 DAY	2 DAYS	3 DAYS		
CLASSES 4-5	9 HOURS	12 HOURS	18 HOURS		
ALL	IF FROST IS POSSIBLE THEN MINIMUN 1 DAY BEFORE STRIPPING				

STRUCTURAL TIMBER

- ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS1720, AS1684.
 SPECIES AND STRESS GRADES SHALL BE AS SPECIFIED ON THE DRAWINGS. REFER TO AS1684 APPENDICES WHERE NMEMERS NOT SPECIFIED.
 USE TIMBER IN SINGLE LENGTHS BETWEEN SUPPORTS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- DRAWINGS. T4. WHERE UNSEASONED TIMBER IS USED, ALLOWANCE SHOULD BE MADE FOR SHRINKAGE AND TO
- ENSURE UNDUE STRESSES, MISALIGNMENT, OR DIFFERENTIAL SHRINKAGE DOES NOT OCCUR. T5. THE STRUCTURE SHALL BE MAINTAINED IN A SAFE CONDITION DURING CONSTRUCTION, USING
- TEMPORARY BRACING WHERE NECESSARY. T6. DRILL TIMBERS FOR FASTENINGS WHERE APPROPRIATE, AND WHERE NECESSARY TO PREVENT
- DRILL INDERS FOR FASIENINGS WHERE APPROPRIATE, AND WHERE NELESSART TO PROVENT SPLITTING AND TO MARE ALLOWANCE FOR SHRINKAGE. HOLES FOR BOLTS SHALL BE 2MM OVERSIZE FOR BOLTS 16mm OR LESS, 3mm OVERSIZE FOR LARGER BOLTS.
 CORROSIVE RESISTANT FASTENINGS WHERE SPECIFIED SHALL BE IN ACCORDANCE WITH AS1214, AS1650 AS3564
- AS1650, AS3566. NAILS, SCREWS, BOLTS, COACH SCREWS TO AS2334, AS1476, AS1111, AS1393. BOLTS, WASHERS, NAILS, SCREWS, COACH SCREWS, SPLIT RING CONNECTORS, SHEAR PLATE CONNECTORS, TOOTH PLATE CONNECTORS, FRANING ANCHORS AND NAIL PLATE CONNECTORS TO AS1720, OF GALVANIEDS STELE UNLESS OTHERIVES SPECIFIED AND TO DETAILS SHOWN ON THE DRAWINGS. (WASHERS TO BE A MINIMUM OF 4MM THICK). T10. STRUCTURAL TIMBER ADHESIVES SHALL BE TO AS1328. T11. TIMBER ROOF FRAMES INCLUDING ROOF BATTENS, RAFTERS, TRUSSES, BEAMS, PLATES SHALL
- BE TIED DOWN TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH AS1684 OR AS SHOWN ON THE DRAWINGS. T12. ROOFS SHALL BE BRACED IN ACCORDANCE WITH AS1684 UNLESS SHOWN OTHERWISE ON THE
- DRAWINGS T13. STUD WALLS EXCEEDING 3.6m HIGH MAY REQUIRE A NON-STANDARD MANUFACTURERS DESIGN. DESIGN TO TRUSS AND FRAME MANUFACTURERS SPECIFICATIONS.
- TILT UP PANELS
- L1. MATERIALS COMPONENTS AND EQUIPMENT SHALL COMPLY WITH AS3850 (TILT UP CONCRETE)
- AND AS3600 (CONCRETE STRUCTURES) L2. ALL PANELS ARE DETAILED WITH INSIDE FACE UP.

a) NO BOND BETWEEN PANEL AND CASTING SURFACE.

SPECIFIED FOR CLASS 1 FORMWORK IN AS1510 PART 1.

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JOB NUMBER Approved for Construction:

ENGINEERS AUSTRALIA NUMBER:

AS SHOWN

30-09-20

CAD Ref:

Scale:

Date

By

Description

Designed

- L2. ALL PARELS ARE DETAILED WITH INSIDE FACE UP. L3. ANY VARIATIONS TO DIMENSIONS. SPECIFIED PRODUCTS, RIGGING ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. L4. MINIMUM CONCRETE STRENGTHS AT THE TIME OF LIFTING ARE:

- L4. MINIMUM CONCRETE STRENGTHS AT THE TIME OF LIFTING ARE: a) MODULUS OF RUPTURE 3.5 MPa b) COMPRESSIVE STRENGTH 25 MPa AT LIFT
 L5. THE SIZE AND TYPE OF CRANE SHALL BE DETERMINED BY THE CONTRACTOR, ALLOWING FOR ALL CONDITIONS, IN PARTICULAR: a) WEIGHT OF PANELS AND REACH REQUIRED FOR ERECTION, WHILST MAINTAINING LOAD LINE OVER THE CENTRE OF LIFT. b) AVDIDANCE OF SLIDING OR JERKING. c) SITE CONDITIONS AND OBSTRUCTIONS.
 L6. THIS DESIGN ASSUMES: a) UN DROND AFTUREN RANEL AND CASTING SUPEACE

D) NU SHRINKAUE LRAKS.
 C) NO IMPACT LOADS DURING ERECTION.
 L7. NO LIFTING OR BRACING EQUIPMENT SHALL BE USED IF DAMAGED.
 L8. NO WELDING OR APPLICATIONS OF HEAT SHALL BE PERMITTED TO ANY SPECIFIED INSERTS OR EQUIPMENT

EQUIPMENT. L9. ALL FLOOR BRACE INSERTS TO BE NOT LESS THAN 600mm FROM JOINTS. L10. REFER TO ARCHITECTS DETAILS FOR SILL BEVEL, REBATE AND SPITTER DETAILS. L11. DIMENSIONAL TOLERANCES FOR PANELS, CASTING BED INSERTS AND PANEL LOCATION IN ACCORDANCE WITH TABLES 3.7.1 KAS350.21 AND 6.4 (AS3850.1) L12. ALL TILT-UP PANELS FLOOR SLABS AND CASTING BEDS SHALL HAVE A STEEL TROWELLED FINISH, WHICH DOES NOT EXHIBIT TROWEL MARKS, NOR, IN THE CASE OF FLOORS AND CASTING BEDS, REFLECT TROWEL MARKS, IN REFLAST PORED ON THEM. L13. SURFACE IMPERFECTIONS ON FORMED AND TROWELLED SURFACES SHALL NOT EXCEED THOSE SUPERFECTED PD (I AS 1 EDDWINDY IN ASTSIN PADE 1

b) NO SHRINKAGE CRACKS.

FOUIPMENT

RETAINING WALLS

RW4.

RW1. POSTS ARE TO BE CAST-IN TO PIERS ON 100mm OF CONCRETE AT BASE OR ALTERNATIVELY ASPROS BLOCKS USED TO MAINTAIN COVER TO STEEL

RW2. PIERS ARE TO BE POURED IN MAXIMUM 0.4m LIFTS WITH EACH LAYER WELL VIBRATED OR RODDED TO ENSURE ADFOUATE COMPACTION

RW3. NO JOINTS ARE PERMITTED IN POSTS PANELS OR SUFFPERS. ARTICULATION JOINTS ARE ONLY PERMITTED IN

NO JOINTS ARE PERMITTED IN POSTS, PANELS OR SLEEPERS. ARTICULATION JOINTS ARE ONLY PERMITTED IN BLOCKWORK AND FORMED CONCENTER WALLS AND SUITABLE SEALANT OR WATERSTOP IS TO BE USED NO MACHINE COMPACTION IS PERMITTED WITHIN 2m OF THE BACK OF THE WALL WITHOUT LATERAL SUPPORT BEING PROVIDED TO THE TOP OF THE WALL. WALL IS TO BE BACKFILLED WITHIN 20-40mm FREE DRAINING AGGREGATE. A SEPARATION LAYER OF GEOTEXTILE CLOTH IS TO BE PROVIDED BETWEEN GRANULAR BACKFILL AND IN-SITU SOLL ALTERNATIVELY GEOTEXTILE CLOTH IS TO BE PROVIDED BETWEEN GRANULAR BACKFILL AND IN-SITU SOLL ALTERNATIVELY GEOTEXTILE CLOTH OF THE TRADUCTS MAY BE USED. IT IS RECOMMENDED EVERY 4TH PERPEND BE USED AS A UFFORDED CORDINANCE ON CONTENTION OF OFFORME OF CONTINUE AND FOR WEEPHOLE FOR DRAINAGE ON EXTERNAL BLOCKWORK RETAINING WALLS RW6. WALL IS TO HAVE AG DRAIN INSTALLED IN GRANULAR FILL WITH A MINIMUM GRADIENT OF 1:100 AND CONNECTED

RWG. WALL IS TO HAVE AG DRAIN INSTALLED IN GRANULAR FILL WITH A MINIMUM GRADIENT OF 1100 AND CONNECTED INTO SUITABLE STORMWATER DISCHARGE UNE.
 RW7. WALL IS NOT TO BE BUILT WITHIN 3M OF ANY EXISTING STRUCTURES OR SERVICES WITHOUT REVIEW BY ENGINEER TO ENSURE STABILITY OF ADJACENT STRUCTURES AND NO ADVERSE IMPACTS ON SERVICES.
 RW8. IF SLEEPERS NEED TO BE CUT TO SIZE, THE ENSO RARE TO BE COATED WITH A SUITABLE EPOXY COATING SUCH AS EPIREZ OR EQUIVALENT TO MANUFACTURER'S SPECIFICATION TO PROTECT EXPORTED ORMEDORY.

EXPOSED REINFORCEMENT. RW9. STRUCTURAL WORK HAS BEEN DESIGNED FOR FOLLOWING LOADS: SUPERIMPOSED DEAD / LIVE LOADS TO AS/NZS1170.1 AND AS4678:

DEAD LOAD	LIVE LOAD
18 kN/m	
22°	
Cu= 10 kPa	
	REFER TO TABLE
	18 kN/m 22°

NOTE: THE ABOVE PARAMETERS APPLY ONLY TO STIFF OR MEDIUM CLAYS AND IT HAS BEEN ASSUMED THE FOUNDING MATERIAL FOR FOUNDATIONS IS THE SAME AS THE RETAINED MATERIAL

DESIGN PARAMETERS FOR SANDS AND GRAVEL	DEAD LOAD	LIVE LOAD 3 SOIL
DENSITY	18 kN/m	
SOIL FRICTION FACTOR	35°	
SOIL COHESION	Cu= 0 kPa	
LONG TERM LIVE LOAD		REFER TO TABLE

UNTE: THE ABOVE PARAMETERS APPLY ONLY TO FREE DRAINING NON-COHESIVE SANDS AND GRAVELS AND IT HAS BEEN ASSUMED THE FOUNDING MATERIAL FOR FOUNDATIONS IS THE SAME AS THE RETAINED MATERIAL

 $\frac{\text{General design parameters:}}{\text{MATERIAL STRENGTH UNCERTAINTY FACTOR}} \quad \phi_{\text{UP}} = 0.85 \text{ AND } \phi_{\text{UC}} = 0.7 \text{ (IN SITU MATERIAL)}$ STRUCTURE IMPORTANCE LEVEL RETAINING WALL CATEGORY

 STRUCTORE IMPORTANCE LEVEL
 2

 RETAINING WALL CATEGORY
 REFER TO TABLE

 DESIGN LIFE
 60 YEARS IN ACCORDANCE WITH AS4678 TABLE 3.1

 SOIL TYPE TO BE CONFIRMED BY ENGINEER PRIOR TO DRILLING OF PIER HOLES.

DESIGN LIVE LOAD AND STRUCTURE CLASSIFICATION

WALL HEIGHT	LEVEL BACKFILL	1:4 INCLINED BACKFILL	STRUCTURE CLASSIFICATION
< 1.5m	2.5 kPa	1.25 kPa	А
> 1.5M	5.0 kPa	2.5 kPa	В

BRICKWORK

B4.

B5

B8

B10

B11.

PROPOSED REFURBISHMENT 70 GASKILL STREET CANOWINDRA NSW 2804

NOTES SHEET 2 OF 2

CABONNE SHIRE COUNCIL

ALL BRICKS SHALL CONFORM TO THE REQUIREMENTS OF AS1225 & AS1226. ALL BRICKWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT SAA CODE. THE DESIGN STRENGTH OF BRICKWORK SHALL BE ZOMPA (COMPRESSIVE STRENGTH). THE MORTAR MIX SHALL BE M3 MORTAR 1:16 (CEMENT:LIME:SAND). LIME CANNOT BE SUBSTITUTED BY CHEMICAL PLASTICISERS. FOR RETAINING AND BASEMENT WALLS 2:19 (CEMENT:LIME:SAND) WHERE BRICKWORK SUPPORTS CONCRETE SLABS. THE TOP COURSE SHALL BE LAID FROGS DOWN AND COVERED WITH 2 LAYERS OF ALCOR OR EQUIVALENT UNLESS OTHERWISE SHOWN.

WHERE WALLS ARE NOT LOAD BEARING, THEY SHALL BE SEPARATED FROM THE CONCRETE ABOVE BY 20mm OF COOLITE OR EQUIVALENT.

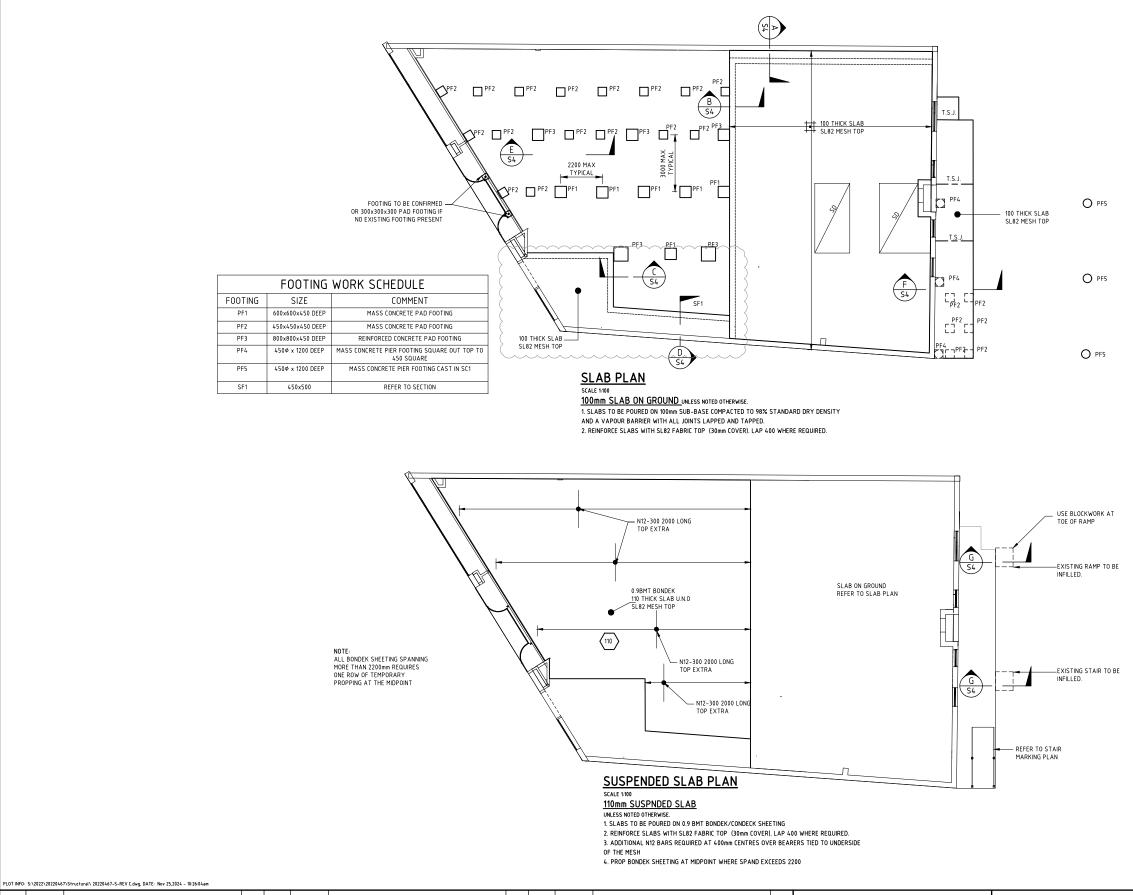
ABOVE BY 20mm OF COOLITE OR EQUIVALENT. ALL BRICKWORK BUILT OFF SLABS SHALL BEAR ON ONE LAYER OF ALCOR OR EQUIVALENT. TIED BRICK JOINTS ARE TO BE 10mm WIDE AND TIED USING ONE ME.T SYSTEMS MASONRY TIE EVERY THIRD COURSE. JOINT FILLED WITH COMPRESSIBLE FILLER AND/OR MASTIC SEALANT. WHERE THE CAVITY IS TO BE FILLED WITH GROUT, IT SHALL BE CARRIED OUT IN MAXIMUM LIFTS OF 10m AND TWENTY FOUR HOURS BETWEEN LIFTS. WALL TIES FOR BRICKWORK CAVITY AND VENEER WALLS SHALL COMPLY WITH AS/NZS 2699.1 TIES ARE TO BE MEDIUM DUTY MINIMUM AND SPACED AT MAXIMUM 600mm CENTRES BOTH HORIZONTALLY AND VERTIF AI I Y

HORIZONTALLY AND VERTICALLY

CONTROL JOINTS ARE TO BE PROVIDED AT MAXIMUM 6m CENTRES AND 4m FROM CORNERS UNLESS NOTED OTHERWISE. NO HORIZONTAL OR DIAGONAL CHASING PERMITTED

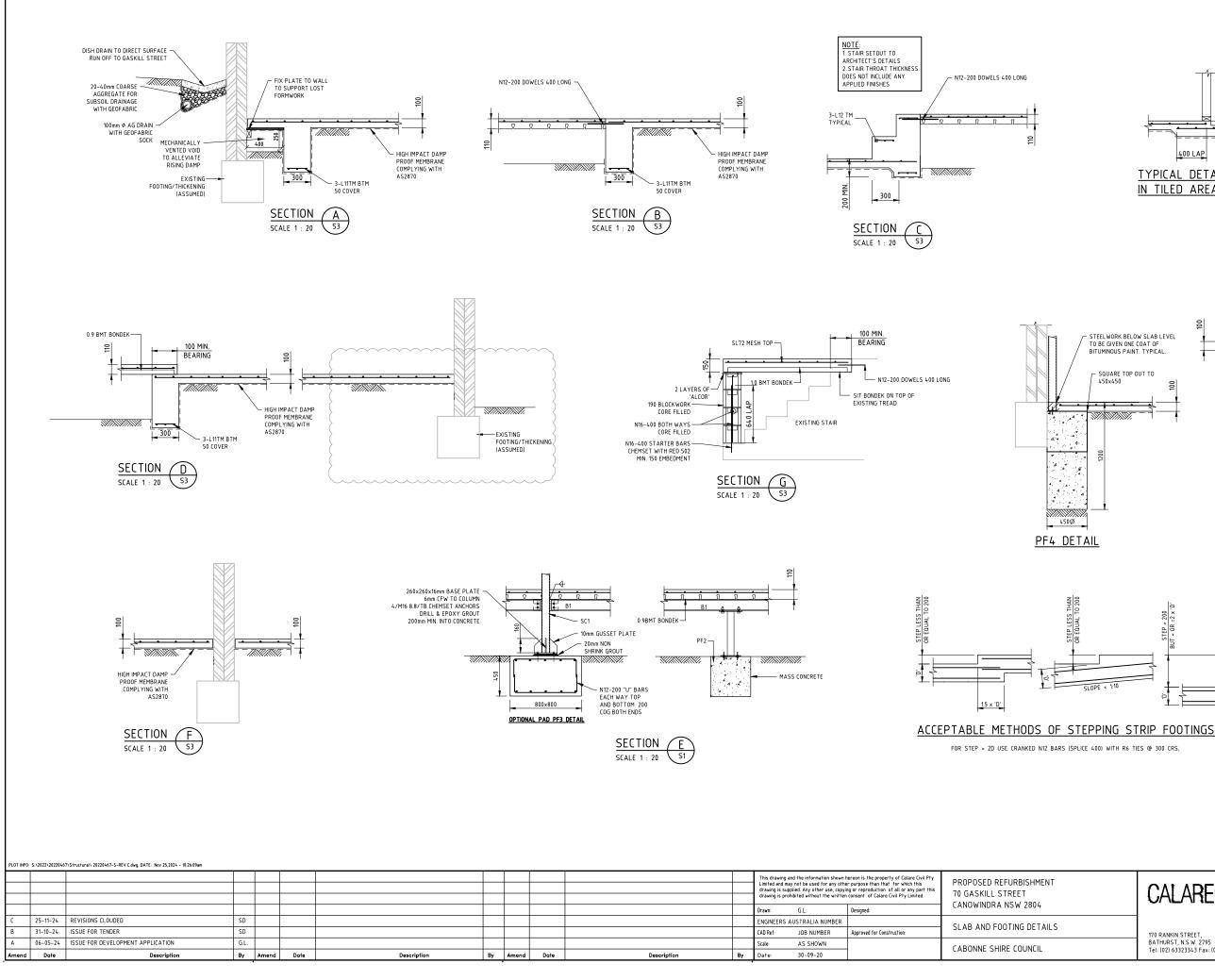
ALL NON-LOAD BEARING WALLS TO HAVE 20mm COMPRESSIBLE JOINT BETWEEN SUSPENDED SLABS OVER IF APPLICABLE

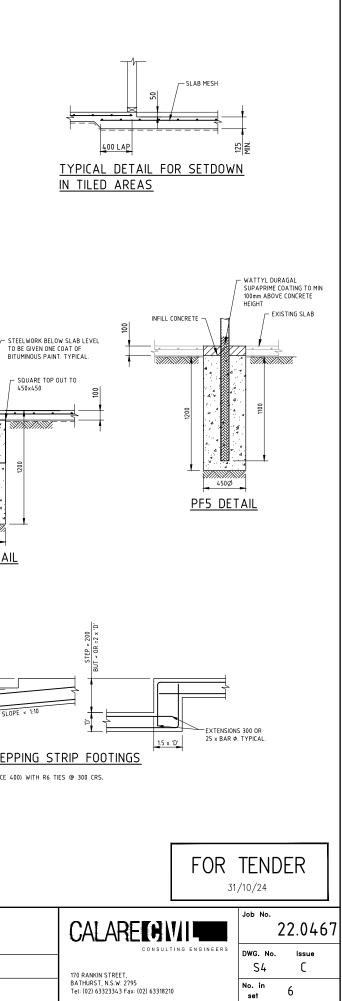
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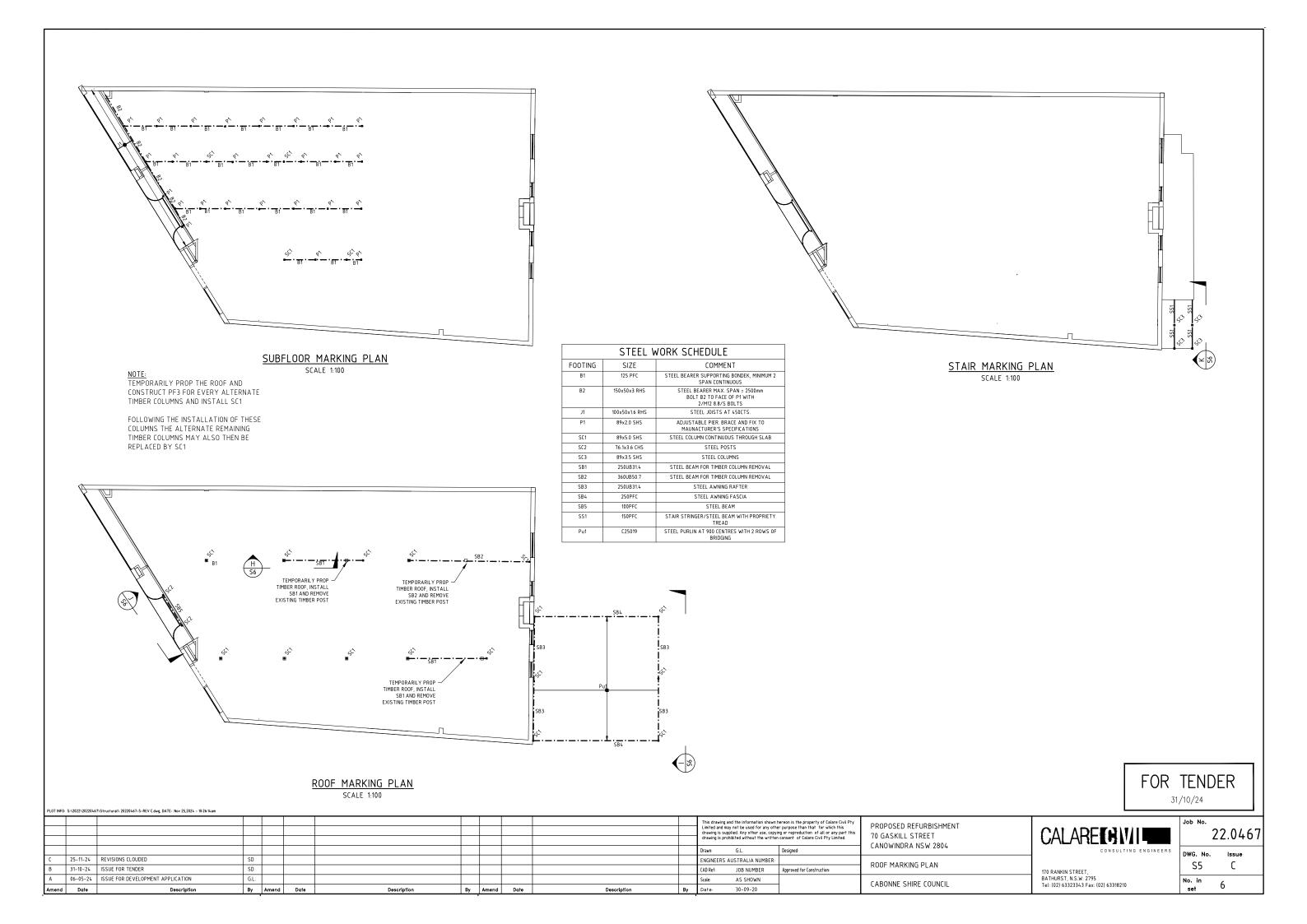


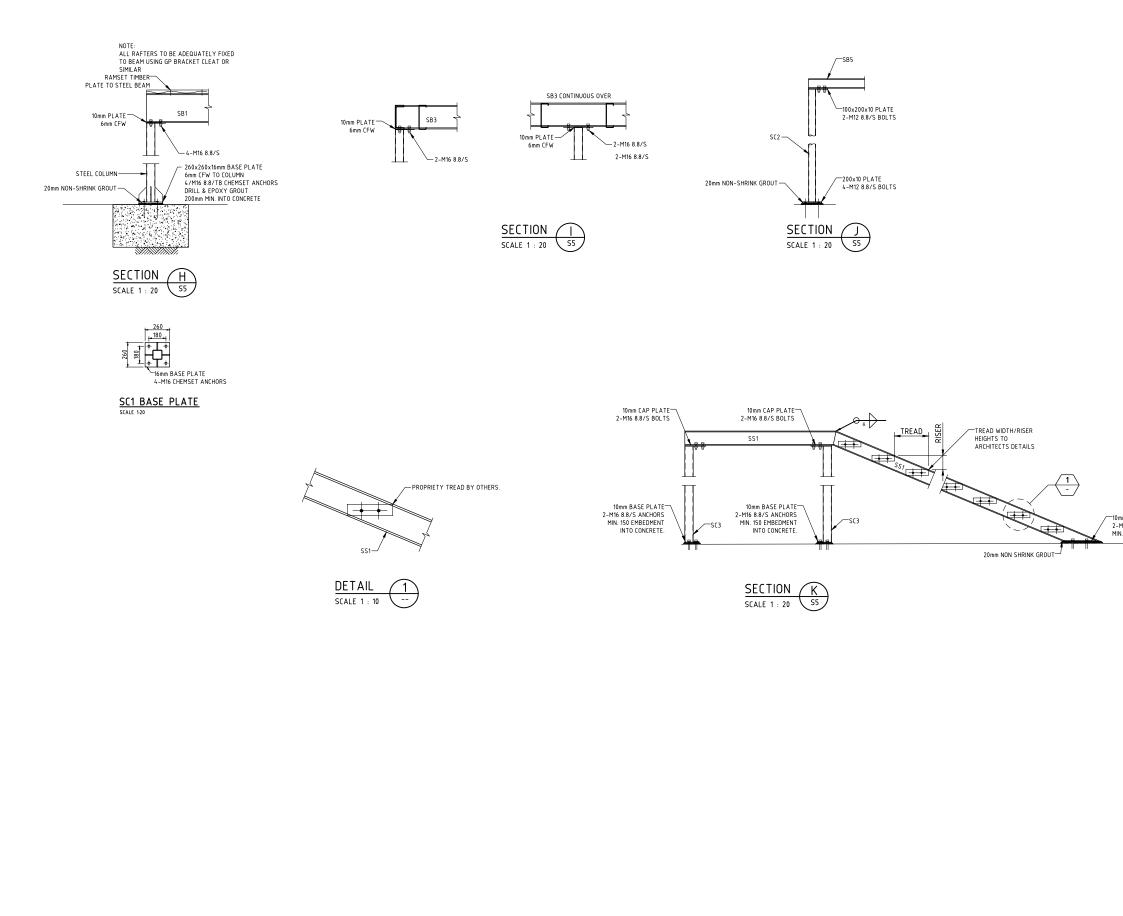
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А	06-05-24	ISSUE FOR DEVELOPMENT APPLICATION	G.L.								Scale: A	AS SHOWN		CABONNE SHIRE COUNCIL
В	31-10-24	ISSUE FOR TENDER	SD								CAD Ref: JC	JOB NUMBER	Approved for Construction:	SLAB AND FOUTING MARKING PLAN
C	25-11-24	REVISIONS CLOUDED	SD								ENGINEERS AUST	TRALIA NUMBER:		SLAB AND FOOTING MARKING PLAN
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А	06-05-24	ISSUE FOR DEVELOPMENT APPLICATION	G.L.									Scale: AS SHOWN		CABONNE SHIRE COUNCIL	
Amend	Date	Description	By	Amend	Date	Description	By	Amend	ł	Date Description	Ву	Date: 30-09-20		CABONNE SHIRE COUNCIL	

PLOT INFO: S:\2022\20220467\Structural\ 20220467-S-REV C.dwg, DATE: Nov 25,2024 - 10:26:19am

✓ 10mm END PLATE 2-M16 8.8/S ANCHORS MIN. 150 EMBEDMENT INTO CONCRETE.

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CONSULT 170 RANKIN STREET,	ING ENGINEERS	dwg. no. S6	lssue C	
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