#### GENERAL NOTES:

- THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH A1. ALL OTHER DOCUMENTATION PROVIDED TO THE ENGINEER AT THE TIME OF DESIGN. IF DISCREPANCIES, THEY SHALL BE RAISED TO THE ENGINEER AND OR ARCHITECT PRIOR TO THE CONTINUATION OF ANY WORKS.
- THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS A2. AND LEVELS TO BE CONFIRMED BY THE CONTRACTOR PRIOR CONSTRUCTION AND FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A3.
- STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE MUST REMAIN IN A STABLE CONDITION. A4. TEMPORARY WORKS. INCLUDING TEMPORARY PROPPING AND
- BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD ENGAGE A QUALIFIED ENGINEER TO DESIGN THESE TEMPORARY WORKS. THE COST OF THESE TEMPORARY WORKS DESIGN IS TO BE INCLUDED IN THE TENDERER'S PRICE.
- THE STRUCTURAL WORKS UNDERTAKEN BY THIS OFFICE HAVE ASSUMED THE THE FOLLOWING LOADS (UNLESS NOTED OTHERWISE): FLOOR LIVE LOAD 5kPa
- ROOF 0.25kPa 'OR' (1.8/A+0.12) WHICHEVER IS GREATER. DIMENSIONS ON ENGINEERING DRAWINGS ARE INDICATIVE ONLY AND INSTEAD SHOULD BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS REFERENCED IN THIS
- ENGINEERING. A7. THIS DESIGNED HAS CONSIDERED IN-SERVICES LOADS ONCE THE STRUCTURE IS COMPLETE. LIVE LOADING DURING CONSTRUCTION DUE TO INSTALLATION METHODS HAVE NOT BEEN TAKEN IN CONSIDERATION IN THIS DESIGN.
- A8. SAA APPROVED MATERIAL AND PRODUCTS ARE TO BE USED ONSITE IN ACCORDANCE WITH THE RELEVANT SAA CODES. DAMAGED STRUCTURAL MEMBERS MUST BE REPLACED OR A9.
- REPAIRED AS PER ENGINEERS INSTRUCTION. THESE DRAWINGS ARE NOT TO BE USED AS SHOP DRAWINGS. A10.
- DETAILED SHOP DRAWINGS ARE TO BE OBTAINED BY THE CONTRACTOR. A11. CONFIRMING AND LOCATING ALL EXISTING STRICTURES AND
- SERVICES PRIOR SITE WORKS IS THE RESPONSIBILITY OF THE CONTRACTOR. A12
- ALL DIMENSIONS MUST BE IN MILLIMETERS UNLESS NOTED OTHERWISE. ALL ITEMS AND OTHER ASSOCIATED COST IN WHICH ARE A13. REFERRED TO IN THE DOCUMENTS, SPECIFICATIONS AND
- OTHER CONSULTANT DOCUMENTS WILL FORM PART OF THE CONTRACTORS TENDER PRICE, UNLESS STATED OTHERWISE. ALL MATERIALS ARE TO BE SUPPLIED BY THE CONTRACTOR WHICH INCLUDES ALL WASTAGE AND OVER-SUPPLY OF CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL INSPECT THE CONTRACT A14.
- DOCUMENTS WHICH ARE AVAILABLE FOR THE PURPOSES OF TENDERING, AND SHALL EXAMINE INFORMATION WHICH IS RELEVANT TO ALL RISKS, CONTINGENCIES AND ALL OTHER CIRCUMSTANCES WHICH MAY AFFECT THE COST OF WORKS. A15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO
- THOROUGHLY INSPECT THE SITE BEFORE TENDERING AND FULLY UNDERSTAND AND COMPREHEND THEMSELVES OF ALL EXISTING SITE CONDITIONS. CLAIMS THAT ARISE FROM FAILURE TO TAKE THESE PRECAUTIONS WILL BE WORN BY THE CONTRACTOR. COSTS OF CRANAGE, TEMPORARY WORKS OR ACCESS RAMP CONSTRUCTION AND SUBSEQUENT REMOVAL, WHICH IS NEEDED TO CONSTRUCT THE PROJECT, SHALL BE ALLOWED FOR BY THE CONTRACTOR IN THEIR TENDER.
- DURING THE TENDER, ANY DISCREPANCY BETWEEN A16. DOCUMENTS, SPECIFICATIONS AND OTHER CONSULTANT DOCUMENTS, MUST BE REFERRED TO THE ENGINEER FOR CLARIFICATION. OTHERWISE, THE CONTRACTOR SHALL ASSUME THE CRITERIA IN TERMS OF COST AND PROGRAM IN THE ABSENCE OF OTHER INSTRUCTIONS
- DURING THE TENDER, THE BUILDER SHALL MAKE FURTHER A17. ALLOWANCES FOR ALL THE COSTS ASSOCIATED WITH SECONDARY STEELWORK WHICH IS INDICATED ON OTHER CONSULTANT DRAWINGS, REGARDLESS OF THE OTHER CONSULTANT REFERS TO THE ENGINEERS DRAWING. MUST REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER SECONDARY STRUCTURAL FRAMING (NON-BASED BUILDING RELATED) HOWEVER, NOT LIMITED TO CEILING FRAME, FRAMING AND OPERABLE WALL SUPPORTS ETC. WHERE IT IS NOT DOCUMENTED/STATED, THE BUILDER CAN MAKE A SATISFACTORY ALLOWANCE
- A18. ALL DRAWINGS ARE DIRECTLY COORDINATED WITH ARCHITECT AND SERVICES ENGINEER. BUILDER WILL MAKE ALLOWANCES WHERE INCESSANCY OR RAISE ANY QUERIES THAT NEED CLARIFICATION.
- A19. SERVICES PENETRATION ARE TO BE COORDINATED WITH THE SERVICES ENGINEER. RELOCATION IS NOT POSSIBLE AND BUILDER CAN MAKE ALLOWANCES FOR STRUCTURAL REDESIGN IF IT IS NECESSARY.
- A20. REFER TO THE ARCHITECT FOR ALL ARCHITECTURAL FACADE TREATMENT. THE BUILDER CAN MAKE ADDITIONAL ALLOWANCE FOR A21.
- CONSTRUCTION SEQUENCE/JOINTS, ADDITIONAL REINFORCEMENT AND ADDITIONAL LOADING CAPACITY. THE BUILDER IS TO MAKE A SUITABLE ALLOWANCE WHERE NECESSARY AS REQUIRED A22.
- ALTERNATIVE METAL DECK COMPOSITE FRAMEWORK CAN BE EQUIVALENT TO THE DECK SPECIFICATIONS NOMINATED. CERTIFICATIONS OF COMPLIANCE SHOULD BE PROVIDED PRIOR TO CONSTRUCTION. A23. IF THERE IS ANY DISCREPANCIES ON THE DRAWINGS OR
- BETWEEN THE DRAWINGS, SPECIFICATIONS, SPECIFIED SAA STANDARD SHOULD BE REFERRED TO THE SUPERINTENDENT AND ONLY A WRITTEN INSTRUCTION CAN BE RECEIVED PRIOR TO PROCEEDING WITH THE WORK. DURING THE TENDERING THE TENDER CAN ASSUME THE MORE PREDOMINATE CRITERIA IN THE TERMS OF COST IN THE ABSENCE OF OTHER INSTRUCTIONS.
- THE DOCUMENTED DESIGN INCORPORATES THE MAIN A24. STRUCTURAL FRAMING HOWEVER IT DOES NOT CONTAIN A FULL SCOPE OF SECONDARY STEEL TO SUPPORT FACADE CLADDING, HANDRAILS, INTERNAL PARTITION WALLS, ETC.
- THE DRAWINGS DEMONSTRATE TYPICAL CONNECTION A25. DETAILS ONLY. THE SHOP DRAFTER IS RECOMMENDED TO DEVELOP ALL CONNECTION DETAILS WHICH ARE NOT SPECIFICALLY SHOWN. IT IS VITAL FOR THE CONTRACTOR TO PRICE ALL THE ASSOCIATED ENGINEERING DESIGN AND DETAILING FOR CONNECTIONS WHICH ARE NOT SPECIFICALLY SHOWN THE STRUCTURAL DRAWINGS DO NOT SHOW ALL THE DETAILS A26.
- FOR FIXTURES, INSERTS, SLEEVES, OPENINGS, ETC. THESE ARE PRESCRIBED BY ALL THE DIFFERENT TRADES. ALL DETAILS INCLUDED OPENINGS FOR CONSTRUCTION PURPOSES, THE SUPERINTENDENT MUST APPROVE BEFORE THE CONSTRUCTION CAN PROCEED.

#### WATERPROOFING IS AS PER ARCHITECTURE PLANS. B1. ALL BRICKWORK LINTELS ARE TO BE IN ACCORDANCE WITH B2. NCC 2019 VOLUME 1 ALL INTERNAL WALLS ARE TO BE NON-LOAD BEARING UNLESS B3. E2. SPECIFIED OTHERWISE. PROVIDE SOLID BLOCKING TO JOISTS TO MANUFACTURERS E3. B4. SPECIFICATIONS. BEAMS/GIRDER TRUSS/HIP TRUSS SHALL BE SUPPORTED ON MIN STUDS UNLESS NOTED OTHERWISE. TIMBER LINTELS ARE TO BE SUPPORTED ON 1 BEARING STUD AND 1 JAMB STUD MIN, UNLESS NOTED OTHERWISE. B7. ALL TRUSSES AND TIMBER FRAMES TO MANUFACTURERS SPECIFICATIONS AND DETAILS. E4. BUILDER IS TO PROVIDE THE TRUSS LAYOUT TO THIS OFFICE B8. PRIOR TO CONSTRUCTION. ALL TIMBER/COLD FORM STEEL LINTELS NOT SPECIFIED IN THIS B9. ENGINEERING IS TO BE DESIGNED BY OTHERS/TRUSS

- MANUFACTURER UNLESS OTHERWISE NOTED. B10. IF NOT PREVIOUSLY ESTABLISHED, TRUSS LAYOUTS HAVE BEEN ASSUMED OR APPROXIMATED IN THIS DESIGN. IF THE MANUFACTURER'S TRUSS LAYOUT DIFFERS FROM THIS DRAWING, PANTHOM IS TO BE CONTACTED IMMEDIATELY.
- ALL TIMBER/COLD FORM STEEL FRAMING IS TO BE SPECIFIED B11. BY OTHERS/MANUFACTURES AND INSTALLED AS PER MANUFACTURES SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.

#### CONCRETE

FRAMING

- CONCRETE WORKS AND MATERIALS SHALL BE IN ACCORDANCE C1. WITH AS3600. C2.
- CONCRETE COVER TO ALL REINFORCEMENT. (REFER PLAN)
- C3. SEPARATE CONCRETE AND SUPPORTING BRICK WORK WITH 2 LAYERS OF A SUITABLE PLASTIC MEMBRANE (MALTHOID ETC) OR AS PER ENGINEERING. ALL BEAM DEPTHS ARE TAKEN FROM TOP OF SLAB. C4.
- REINFORCEMENT LOCATION IS INDICATIVE ONLY. C5.
- ALL CONCRETE IS TO HAVE 80MM SLUMP UNLESS C6.
- NOTED OTHERWISE. C7. ALL REINFORCEMENT IS TO BE PROPPED ON APPROVED
- CHAIRS AND N16 SUPPORT BARS. CHAIRS MAX SPAN IS 0.8M. FINISHES ARE NOT INCLUDED IN CONCRETE SIZE. C8.
- THIS OFFICE IS TO BE CONTACTED FOR APPROVAL BEFORE ANY ALTERATIONS TO CONCRETE SIZE OR PENETRATIONS. ALL REINFORCEMENT FOR ONE POUR SHALL BE ENTIRELY TIED C9.
- AND PLACED TO COMPLETION BEFORE AN INSPECTION BY THE ENGINEER, BUILDING SURVEYOR OR ARCHITECT. C10. LAP TRENCH MESH IN BEAMS MINIMUM 45 TIMES THE BAR
- DIAMETER. LAP TRENCH MESH EQUAL TO ITS WIDTH AT T AND L POINTS. ALL CAMBER IN BEAMS ARE 2MM PER 1M SPAN UNLESS C11.
- NOTED OTHERWISE. C12. PROVIDE A POLYETHYLENE EXPANSION JOINT OR SIMILAR
- BETWEEN ALL NEW FOOTINGS AND EXISTING ADJACENT FOOTINGS. C13. REMOVE ALL FORMWORK AND PROPPING ON SLABS PRIOR TO
- ANY BRICKWORK CONSTRUCTION.
- CONTRACTOR SHALL UNDERTAKE COMPRESSIVE CONCRETE C14. TESTING AT 7 AND 28 DAYS AFTER POUR.
- C15. CONCRETE TO BE CURED WITH A CURING COMPOUND TO OBTAIN A 95% MOISTURE RETENTION AS SPECIFIED IN AS3799.
- C16. ALL CONCRETE STEEL REINFORCEMENT GARDE IS 500MPa
- C17. CONCRETE CEMENT TYPE PORTLAND CEMENT (TYPE A) . ALL CONCRETE GRADE UNO C18.
- 40MPa

#### BRICKWORK & MASONRY

- THE UNCONFINED COMPRESSIVE STRENGTH OF BRICK IS D1. ASSUMED TO BE 15MPa IN THIS DESIGN. THE COMPRESSIVE STRENGTH OF MASONRY IS ASSUMED TO BE 5.4MPa IN THIS DESIGN.
- D2. MORTAR MIX FOR BRICKWORK IN THIS DESIGN IS C1:L1:S6 ANY WALL TIES MUST BE 3.1MM DIA GALVANISED WIRE AND D3. PROVIDED AT 600MM CRS MAX UNO.
- INSTALL ARTICULATION JOINTS IN ACCORDANCE WITH D4. AS4773.1-2015, AS4773.2-2015 AND UNLESS NOTED
- OTHERWISE, TECHNICAL NOTE 61 (AUG 2008) FOR ANY ARTICULATED MASONRY WALLS AND AS PER ARCHITECTURAL PLANS. BUILDER MAY SUBMIT CONTROL JOINT LOCATION AND
- D5. LAYOUT TO ENGINEER FOR REVIEW.
- ALL WORKS AND MARTIAL TO BE IN ACCORDANCE WITH D6. AS3700
- ALL BRICKWORK IN THIS DESIGN IS INFILL ONLY. NO BRICK IS D7. TO BE LOAD BEARING.
- MORTAR JOINTS ARE 10MM THICK WITH MAX 3MM TOOLED D8. DEPTH



Description	Date
Construction Drawings	03.12.2024
	Description Construction Drawings

Swan Hill Rural City Council

Client:

FOUNDATION MATERIAL TO BE APPROVED PRIOR TO POURING OF SLAB OR FOOTINGS. MIN SAFE BEARING OF 180kPa FOR PAD AND STRIP FOOTINGS. BEARING CAPACITY OF SOIL IS TO BE CONFIRMED BY CONTRACTOR PRIOR CONSTRUCTION OF FOUNDATIONS. SLAB ON GROUND: ALL SURFACE FILL, ROOTS AND ORGANIC MATERIAL TO BE BE CLEARED FROM BUILDING SITE. ONCE SITE HAS BEEN CUT TO BENCH LEVEL. SURFACE IS TO BE ROLLED FOR SOFT SPOTS. IF SOFT SPOT OCCURS, THE MATERIAL IS TO BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL COMPACTED TO 98% MDD IN ACCORDANCE WITH AS1289. MINIMUM SLAB BEARING OF 30kPa.

FOUNDATIONS

E1.

E8.

- SUSPENDED SLAB: ALL SURFACE TOPSOIL, ROOTS AND ORGANIC MATERIAL TO BE BE CLEARED FROM BUILDING SITE. ONCE SITE HAS BEEN CUT TO BENCH LEVEL, REMAINING SOIL TO BE ROLLED AND COMPACTED TO ALLOW ADEQUATE EVACUATION, SUPPORT OF FORM WORK AND SUPPORT OF WET CONCRETE TO CURE.
- ALL FILL MATERIAL AND BACKFILL AND FOUNDING MATERIAL E5. TO BE COMPACTED IN LAYERS OF 200MM MAX AND TO 98% MDD BELOW BUILDING AND 95% MDD IN LANDSCAPE AREAS AS PER AS1289.
- ALL FILLING AND COMPACTION MUST BE SUPERVISED UNDER E6. LEVEL 1 BY A QUALIFIED PERSONS. E7. BLINDING CONCRETE MAY BE USED TO DEEPEN FOOTING TO

AND COLUMNS AS SHOWN UNO.

ACHIEVE FOUNDING DEPTH INTO NATURAL MATERIAL AS

USED BELOW THE MINIMUM SPECIFIED FOOTING DEPTH.

LOCATE FOOTING CENTRAL UNDER LOADING BEARING WALL

SHOWN IN ENGINEERING. BLINDING CONCERT CAN ONLY BE

F	
F1.	ALL STRUCTURAL STEEL WORKS AND MATERIALS SHALL BE IN
2.	ACCORDANCE WITH AS1250 AND/OR AS4100. ALL BOLTS SHALL BE IN ACCORDANCE WITH
3.	AS1511. STEEL FRAMING IS TO BE PROTECTED FROM CORROSION WHERE REQUIRED IN ACCORDANCE WITH NCC 2019
l.	VOLUME 1. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO THE STRUCTURE UNTIL PERMANENT BRACING IS PUT IN
5.	PLACE. STRUCTURAL STEEL CAMBER TO BE MAX 2mm FOR EACH
5.	METER UNLESS SPECIFIED OTHERWISE. WELDING TO BE UNDERTAKEN BY A QUALIFIED AND
7.	EXPERIENCED PERSON IN ACCORDANCE WITH AS1554. ALL EXPOSED STRUCTURAL STEEL MUST BE HOT DIP GALVANISED.
8. 9.	ALL INTERNAL STRUCTURAL STEEL MUST BE SHOP PRIMED. 100MM END BEARING IS REQUIRED FOR STEEL BEAMS UNDER 1.0M. 150MM OF END BEARING SHALL BE PROVIDED TO STEEL BEAMS SPANNING MORE THAN 1.0M.
10.	ALL DRILLING AND FIXING OF CLEATS TO TIMBER MEMBERS TO BE PROVIDED BY THE STEEL FABRICATOR.
1.	ALL EXTERNAL STEEL SHALL BE HOT DIP GALVANISED OR PAINTED TO ARCHITECTS DETAILS.
12.	STEEL REINFORCED CONCRETE SHALL BE WRAPPED IN SLAB FABRIC UNLESS OTHERWISE NOTED.
13.	ALL ROOF BEAMS TO HAVE FLY BRACING AT 5000MM CRS UNLESS NOTED OTHERWISE.
14.	SECTION GRADE MPa
	PFC, UB, UC 300
	SHS & RHS         350           WELDED SECTIONS         300
	PRESSED STEEL PURLINS 450
5.	ALL DIMENSIONS ARE TO BE TAKEN FROM THE ARCHITECTURAL PLANS AND CHECKED ON SITE BY THE
	BUILDER PRIOR TO THE FABRICATION OF ANY STEELWORK. STRUCTURAL DRAWINGS ARE NOT TO SCALE.
.6.	STEELWORK TO BE ERECTED IN ACCORDANCE WITH AS4100
17.	BUILDER MUST ENSURE THAT THE STRUCTURAL STEEL IS
0	INTERFERING WITH OTHER NEAR BY STRUCTURES.
.8.	OF THE STRUCTURE DURING CONSTRUCTION. DETAILS ARE
	SHOWN ON THE DRAWINGS WHICH ARE DESIGNED TO RESIST THE LOADS OF THE COMPLETE STRUCTURE.
Э.	THE STEELWORK CONTRACTOR SHOULD BE COMPETENT IN THE DESIGN AND ERECTION OF THE STEEL STRUCTURES.
0.	WHERE ADJOINING BUILDING ELEMENTS ARE TO BE FIXED OR SUPPORTED ON THE STRUCTURAL STEEL, OBTAIN
1	REQUIREMENTS AND PROVIDE FOR REQUIRED FIXINGS.
1.	IDENTIFYING EACH MEMBER ON SITE TO ENSURE THE
•	CONRECTIONS.
2.	PREPARED IN ACCORDANCE WITH THE AS1100 AND AS1101.3,
	SHOWING THE RELEVANT DETAILS OF EACH ASSEMBLY, COMPONENT AND CONNECTION.
3.	FULL SET OF SHOP DRAWINGS IS TO BE PROVIDED TO THIS OFFICE IN PDF FORMAT FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF ANY FABRICATION. ALLOW AT
4.	LEAST 10 DAYS FOR A REVIEW OF SHOP DRAWINGS. STEELWORK NEEDS TO COMPLY WITH AS4100, AS4600,
	AS2327.2 HOWEVER COLD FORM SECTIONS NEED TO COMPLY WITH AS1538.
8.	BEAM SLICING: STRUCTURAL MEMBERS ARE TO BE PROVIDED IN SINGLE LENGTHS UNLESS NOTED OTHERWISE.
9.	COLUMN SPLICES:SPLICES BETWEEN 500mm AND 800mm
).	SITE WORK: STEELWORK IS NOT TO BE FABRICATED ON SITE
1.	MEMBERS THAT ARE SHOWN ON THE DRAWINGS ARE NOT TO BE SUBSTITUTED WITH DIFFERENT GRADES OR SECTIONS
32.	THE ERECTION NEEDS TO BE IN ACCORDANCE WITH AS4100.
33.	TEMPORARY CONNECTIONS WHERE REQUIRED ARE TO BE SHOWN ON THE SHOP DRAWINGS FOR APPROVAL AND
	REMOVED ONCE STRUCTURE IS ERECTED ON SITE AND SURFACE IS ACCEPTABLE. NO TEMPORARY CONNECTIONS ARE
84.	TO BE WELDED ON SITE. ANCHOR BOLTS PROVIDE A TEMPLATE WITH SETTING OUT
	LINES WHICH ARE CLEARLY MARKED OUT FOR POSITIONING OF THE BOLTS WHEN CASTING IN.
85.	HAND FLAME CUTTING BOLT HOLES IS NOT PERMITTED
6.	DO NOT GROUT IF THE TEMPERATURE OF THE BASE PLATE OR
37.	POVING SURFACE EXCEEDS 38 C. PROVIDE NON SHRINK GROUT WITH A MINIMUM
	COMPRESSIVE STRENGTH OF 15MPa, WITH A MINIMUM THICKNESS OF 20mm AND A MAXIMUM OF 45mm.
38.	REMOVE LOOSE RUST, OIL GREASE, DIRT, WELD SLAG AND OTHER FOREIGN MATTER ON STEEL SURFACES.
39.	AFTER COMPLETING THE CONNECTION, PREPARE THE SURFACE OF THE CONNECTION AND ANY NON-PRIMED OR
	DAMAGED SECTIONS (WHICH MAY HAVE OCCURRED DURING
40.	DO NOT USE SILICA ABRASIVE FOR DRY BLASTING, USE PHOSPHATE INHIBITORS WHEN WET BLASTING FOR ABRASIVE
1.	BLAST CLEANING. PRIMER OR PROTECTIVE SYSTEM IS TO BE APPLIED BEFORE
12.	DELIVERY ON SITE. PRIME STEEL SURFACES AS SOON AS POSSIBILE AFTER STEEL
-	PREPARATION, AND WITH 4 HOURS FOR SHOP WORK AND 2
13.	IF SURFACES ARE AFFECTED REPEAT THE SURFACE
44.	DO NOT USE FAST DRYING PRIMERS WHERE SURFACE
5.	PENETRATION IS LESS THAN CLASS 1.5. WHERE MEMBERS ARE PART CONCRETE ENCASED EXTEND THE
5.	PRIMING 25mm INTO THE SURFACE TO BE ENCASED. COLD WORKED ITEMS: ANNEAL TO 650°C PRIOR TO
,	GALVANISING.

THREADED FASTENERS NEED TO COMPLY WITH AS1214. THE ZINC COATING SHOULD BE FREE FROM LUMPS, BLISTER F48.

- GRITTY AREAS, UNCOATED SPOTS, ACIDS AND BLACK SPOTS, DROSS, FLUX AND OTHER IMPERFECTIONS. PASSIVE GALVANISED SURFACES TO BE CAST INTO OR IN F49
- CONTACT WITH CONCRETE BY DIPPING IN 0.2% SODIUM DICHROMATE

PRECAST CONCRETE NOTES:

- PROVISION AND INSTALLATION OF COMPLETE PRECAST A1. CONCRETE WORKS WHICH IS SHOWN ON THE DRAWINGS AND SPECIFIED IN THIS DOCUMENT WHICH INCLUDES HOWEVER NOT LIMITED TO PANELS, INSERTS, PANEL ERECTIONS, JOINT SEALERS AND ACCESSORIES, TRANSPORT HOISTING AND EOUIPMENT.
- QUALITY ASSURANCE MUST BE MONITORED BY THE BUILDER, A2. ARCHITECT AND OR STRUCTURAL ENGINEER. THEY MUST BE FULLY RESPONSIBLE FOR THE COMPLETE INSTALLATION PROCESS AND QUALITY OF CONCRETE MIX. FORMWORK DIMENSIONAL CONTROL, REINFORCEMNT INCLUDING MAINTENANCE OF COVER, COLOUR MATCHING, HANDLING, LOADING & SHIPPING, SITE HANDLING, HOISTING AND STORAGE, ERECTION AND SEALANTS.
- A3. ITS IS THE CONTRACTORS RESPONSIBILITY TO CARRY OUT THEIR OWN INSPECTION WHICH WILL ENSURE COMPLIANCE WITH THE SPECIFICATION AND DRAWINGS.
- THE DESIGN OF THE PANEL ANCHORAGE MUST ENSURE THAT THE PANELS MEET THE REQUIREMENTS OF THE FABRICATION, TRANSPORT, UNLOADING, HANDLING AND OR STACKING OF THE PANELS.
- THE DETAILS OF THE ANCHORAGE FOR LIFTING AND FIXING FERRULES ARE TO BE APPROVED BY THE DEPARTMENT OF LABOUR AND INDUSTRY

### **REFERENCES:**

B1.

- COMPLIANCE WITH THE FOLLOWING APPLICABLE AUSTRALIAN STANDARDS IS REQUIRED.
- AS1012 METHODS OF TESTING CONCRETE
- AS1302 STEEL REINFORCING BARS FOR CONCRETE AS1303 STEEL REINFORCING WIRE FOR CONCRETE
- AS1304 WELDED WIRE REINFORCING FABRIC FOR CONCRETE
- AS1379 THE SPECIFICATION AND SUPPLY OF CONCRETE AS1418 SAA CRANE CODE. CRANES INCLUDING HOISTS &
- WRENCHES AS1418.5 CONCRETE PLACING EQUIPMENT
- AS1554 STRUCTURAL STEEL WELDING AS3600 CONCRETE STRUCTURES WITH SUPPLEMENTS 1, 2
- AND 3 AS3610 FORMWORK FOR COCNRETE
- AS3850 TILT-UP CONCRETE AND PRECAST CNCRETE ELEMENTS FOR: - 3850.1 SAFETY REQUIREMENTS - 3850.3 GUIDE TO ERECTION OF PRECAST CONCRETE
- MEMBERS RECOMMENDED PRACTICE - DESIGN AND DETAILING OF B2. PRECAST CONCRETE' PUBLISHED BY THE CONCRETE INSTITUTE OF AUSTRALIA. HOT DIP GALVANISED TRADE ASSOCIATION MANUAL' PUBLISHED BY GALVANISED ASSOCIATION OF AUSTRALIA.

### DELIVERY, HANDLING AND STORAGE:

MUST COORDINATE THE BUILDING SCHEDULE WITH THE C1. BUILDER UNLESS NOTED OTHERWISE. DELIVER FABRICATIONS IN THE SAME SEQUENCE IN WHICH THEY ARE TO BE INSTALLED. AVOID DOUBLE HANDLING AT THE SITE IF POSSIBLE IN ORDER TO MINIMISE THE CHANCE OF DAMAGES TO THE FINISH.

#### MANUFACTURING CRITERIA:

- TOLERANCES WIDTH/LENGTH THICKNESS - DIMENSIONS UP TO 3000mm
- ± 3mm DIMENSIONS OVER 3000mm ± 0.1% DIMENSIONS
- PLANE OF FACE DIMENSIONS UP TO 3000mm ± 6mm DIMENSIONS OVER 3000mm ± 0.2% DIMENSIONS
- D2. LIMIT CUMULATIVE ERROR TO THE FOLLOWING CRITERIA TO THE FOLLOWING CRITERIA: PANEL JOINTS: MINIMUM 10mm MAXIMUM 20mm ADJACENT PANEL ALIGNMENT:
- ON EXTERNAL FACES MAXIMUM ERROR OF 2mm VERTICAL PLUMB - A MAXIMUM OUT OF PLUMB OF 5mm
- D3. FORMWORK: CONFORM GENERALLY TO THE REQUIREMENTS OF THE RELEVANT FORMWORK SUB-SECTIONS OF AS3610

#### MATERIALS:

- E1. CONCRETE AND REINFORCEMNT: COMPLY WITH THE REQUIREMENTS O THE CONCRETE SPECIFICATION. THE CONCRETE AND REINFORCEMENT PROPERTIES ARE AS NOTED ON THE DRAWINGS AND/OR AS SPECIFIED ELSEWHERE IN THE SPECIFICATION.
- JOINTING MATERIAL TO PRECAST PANELS: SEAL JOINTS E2. BETWEEN AGAINST WATER PENETRATION AND FIRE. EXTERNAL WALLS FIRE: APPLIED IN ACCORDANCE WITH FIRE RATING REQUIREMENTS, OVER CLOSED CELL POLYETHYLENE FOAM BACKER ROD.
- EXTERNAL WALLS NOT FIRE RATED & INTERNAL JOINTS: APPLIED OVER CLOSED CELL BACKER ROD. INSTALLATION SEALANTS: APPLY MATERIALS IN ACCORDANCE E3. WITH MANUFACTURES INSTRUCTIONS AND TO THE
- SATISFACTION OF APPROVING AUTHORITY. CONCRETE ADMIXTURES: MUST COMPLY WITH AS1478 AND E4.
- AS1479. OBTAIN WRITTEN APPROVAL FROM THE CONSULTING ENGINEER FOR THE USE OF ADMIXTURE. EMBEDMENTS: RECESS LIFTING ATTACHMENTS SUCH AS
- FERRULES OR OTHER TYPES OF CAST-IN FIXINGS AND PROVIDE WITH AN APPROVED PUG FOR SEALING. LIFTING ATTACHMENTS, CLEAR HOLES AND OTHER TEMPORARY

# 11.

### REPAIRS:

J1.

IF THE PRECAST UNITS
PERFORMANCE REQU
APPLICABLE, AND ARE
ENGINEER MAY PERM
TESTING

## TESTING:

K1.	CONFORM TO THE RE

	HANDLING:
1.	STORE AND HANDLE U
	MANNER BY THE ENGI
2.	STORE UNITS IN A SIM
	SUPPORT CONDITIONS
	DESIGNED LIFTING POI
	OVER-STRESS OR PERM
2	
5.	
	OF MATERIALS CAPAB
4.	SEPARATIONS OF PACE
	ON INERT NON-ABSOR
	POLYURETHANE FOAM
	SUPPORT THEIR OWN
5.	STRESSES IN THE UNIT
	ERECTION IS NOT EXCE
	CONCRETE SET IN AS3
Л	INSTALLATION:
И1.	MUST SUPPLY, TEMPO
	JOINTING, SEALANT, JO
40	REQUIRED FOR ERECT
/12.	
/13	BE RESPONSIBLE FOR 1
15.	ERECTION, DESIGN, AN
	SHORING OF THE PAN
	PROCESS, UNTIL THE S
	COMPLETED TO ENABI
	LOADS.
Л4.	NO BRACING IS TO BE
	WRITING BY THE CONS
<i>I</i> 15.	A DESIGN OF THE BRA
	BE SUBMITTED TOGET
	LOCATIONS.
Л6.	WHERE CRANES ARE U
	AS1418 SAA CRANE CO
Л7.	INSTALLATION OF SEAL
	SEALANTS AND JOINT
	OF THE APPROVING AU
1	ADJUSTMENT:
11	
11.	
	HUTTEN BULIS.
)	PACKING AND GROUT:
1	
JT.	WHERE REQUIRED, PR
כר	
12.	FLACE FACKERS SUTE

	FOLLOWING MATERIA
	CEMENT, GALVANISE
	(WHERE APPROVED E
2.	PLACE PACKERS SO TI
	25mm TO THE FACE (
	150mm LONG IN THE
3.	GROUT PINS AFTER T
	INJECTING NON SHRI
4.	FILL THE GAP BETWE
	SUPPORTING BASE C
	NON STAINING GROU

Monash Drive Swan Hill

Drawing: General Notes

Construction Issue

#### FIXINGS FOR HANDLING PURPOSES ARE NOT TO OCCUR ON VISIBLE FACES OF UNITS UNLESS APPROVED AS TO SIZE AND

BOND-BREAKER: USE A COLOURED BOND-BREAKER WHICH WILL PROVIDE NO SUCTION AND ALSO NO RESIDUAL EFFECTS

UNLESS NOTED OTHERWISE, THE FINISH OF THE PRECAST UNITS ARE TO COMPLY WITH THE REQUIREMENTS FOR FORMWORK CLASS 3 IN AS3.610 AND ARE AS FOLLOWS: - MEDIUM QUALITY CONCRETE, COLOUR IS NOT CRITICAL BUT MUST BE BUILT TO CLOSE TOLERANCE. THE FORMWORK IS TO BE IN ACCORDANCE WITH THE

G1. CURE PRECAST IN ACCORDANCE WITH AS3600. STEAM CURING

H1. CONTRACTOR TO ENSURE PROTECTION OF PANELS DURING

PANELS COULD BE REJECTED BY THE DESIGN ENGINEER OR ARCHITECT IF THEY DO NOT MEET THE SPECIFICATIONS OR IF THEY ARE DAMAGED DURING THE ERECTION PHASE. PROCEDURE A STANDARD FINISH AND GENERAL APPEARANCE CORRESPONDING IN PROPORTION WITH ITS USE, LOCATION AND FINAL SURFACE COATING. ROUGH FINISHING OR SURFACES AND EDGES WILL NOT BE ACCEPTED.

> S DO FAIL TO COMPLY WITH THE JIREMENTS OF THE SPECIFICATION AS E THEREBY LIABLE TO REJECTION, THE **/IT THE UNITS TO BE RETAINED SUBJECT** IAL WORKS.

EQUIREMENT OF AS1012

UNITS IN AN APPROPRIATE INFFR AILAR MANNER TO THE FINAL S. HANDLE AND SUPPORT ONLY FROM DINTS AND ENSURE THAT NO MANENT DEFORMATION WILL OCCUR ADEQUATELY BRACE SLENDER UNITS IN ATERAL DEFORMATION. AGE CLEAR THE OF THE GROUND, IN HEY WILL NOT BE WALKED ON AND CLEAR BLE OF STAINING OR MARKING. CKS USED IN STORAGE ARE TO BE RBENT MATERIALS SUCH AS M OR PVC. STACK UNITS SO THAT THEY I WEIGHT ONLY AND OF OTHER UNITS. TS DURING HANDLING AND EEDED ALLOWABLE STRESSES FOR

ORARY FIXINGS, BRACES, MORTAR, IOINTING STRIPS AND FLASHING TION OF UNITS ON SITE. IENTS INTO THEIR FINAL POSITIONS TOLERANCES AND CONNECT AND JOIN IN THE REQUIREMENTS. THE ERECTION AND METHOD OF

ND INSTALLATION OF BRACING AND VELS DURING THE CONSTRUCTION STRUCTURE HAS BEEN SUFFICIENTLY BLE THE PANEL TO CARRY ITS OWN

REMOVED UNTIL APPROVED IN SULTING ENGINEER. ACES INTENDED TO BE USED IS TO THER WITH A PLAN DETAILING THEIR

USED, MUST COMPLY WITH ALANTS: INSTALL REQUIRED

ING MATERIALS IN ACCORDANCE WITH TRUCTIONS AND TO THE SATISFACTION UTHORITIES.

RRECT POSITIONS IN RELATION URE AND TO ADJUST PANELS AND

ROVIDE PACKERS OF THE ALS: COMPRESSED FIBRE D STEEL, RIGID HIGH-IMPACT PLASTIC Y THE CONSULTING ENGINEER). HAT NO FACE IS CLOSER THAN OF THE PANEL. SIZE PACKERS AT LEAST DIRECTION OF LENGTH OF THE PANEL. THE PANELS ARE ERECTED BY NK GROUT IN THE GROUT TUBES. EEN THE PANEL AND ITS COMPLETELY WITH A NON-SHRINK INERT, NON STAINING GROUT OF A TYPE TO BE APPROVED BY THE CONSULTING ENGINEER.

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PANTHOM	
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ABN: 68	628 511 919

Rev	Description	Date
А	Construction Drawings	03.12.202

Client: Swan Hill Rural City Council

Construction Issue

APPROX	
	RMT
	RMM
RW1	This office has designed the slob based on suisting and
	This office has designed the slab based on existing and removed trees as per AS2870 - 2011 Design Ys movement: 60 < Ys ≤ 75 This design must be read in conjunction with the following
	documents. Soil and site investigation report: Company: GTS Ref No: 24C 0693 Date: 9/10/2024 Class: P/H1-D Architectural drawings: Company: NA Ref No: NA Date: NA Civil and drainage drawings: Company: NA Ref No: NA Date: NA
REMARKS RM BOARDS SIDE E, 2M MAX SPAN	General Notes:         -       This plan is intended to be comprehended, read, and interpreted by and experienced and qualified, builder, contractor or consultant.         -       This plan is not an accurate representation of the actual site plan created by building designers. Refer to architectural plans for accurate locations.         -       At the time of this design no PSI, easement or
	services information were provided to this office. If information is found and will differ or effect the engineering design, this office must be contacted immediately.
CONT SPAN IPLE MEMBERS AL TO FORM STEP, DETAIL, BETWEEN	<ul> <li>This drawing does not show accurate site boundaries.</li> <li>This design is subject to change if PSI, easement/services information or amended architectural plans are provided to this office.</li> </ul>

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Drawing No. S2		









Project:

Stairs and Retaining Walls

Address: Monash Drive Swan Hill

Drawing: Stairs and Retaining Wall Details

Construction Issue



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