

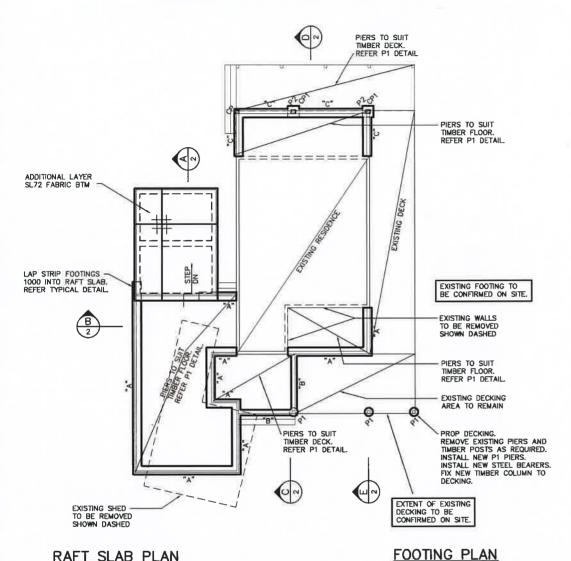
NOTE: DURING EXCAVATION TRENCHES ARE TO BE CAREFULLY EXAMINED FOR THE PRESENCE OF ANY FILL F ANY FILL IS DETECTED OR IN DOUBT

NOTE: WALL FRAME BRACING AND TIE DOWN TO BE IN ACCORDANCE WITH AS.1684. TO DETAILS BY OTHERS THIS SLAB DESIGN HAS NO PROVISION FOR INTERNAL LOAD BEARING WALLS AND THEREFORE IS TO BE CONFIRMED WITH TRUSS MANUFACTURERS LAYOUT PRIOR TO CONSTRUCTION.

NOTE FOR EXTENSIONS:

CONTACT XEROS PICCOLO ENGINEERS.

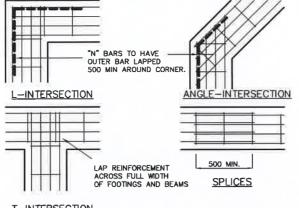
THE FRAME AND ARCHITECTURAL FINISH IS TO BE CONSTRUCTED TO MAKE PROVISIONS FOR MINOR RELATIVE MOVEMENT BETWEEN NEW AND EXISTING BUILDINGS.
WHERE NOT DETAILED, ADVICE SHOULD BE SOUGHT FROM THE "BUILDING DESIGNER".



RAFT SLAB PLAN

- SITE TO BE STRIPPED OF VEGETATION AND EXPOSED SURFACE PROOF ROLLED. ANY SOFT OR HEAVING AREAS SHALL BE EXCAVATED AND REPLACED AND COMPACTED WITH GRANULAR SELECT FILL AS REQUIRED.
- WHERE FILL IS REQUIRED UNDER SLABS ROLLED FILL IS TO BE USED—ROLLED FILL CONSISTS OF MATERIAL COMPACTED IN LAYERS BY REPEATED ROLLING WITH AN EXCAVATOR. ROLLED FILL SHALL NOT EXCEED 600 COMPACTED IN LAYERS NOT MORE THAN 300 THICK FOR SAND MATERIAL OR 300 COMPACTED IN LAYERS NOT MORE THAN 150 THICK FOR OTHER MATERIAL
- DEPTH OF FILL IS NOT TO EXCEED THESE LIMITS WITHOUT PRIOR APPROVAL FROM XEROS PICCOLO CONSULTING ENGINEERS.
- UNLESS NOTED OTHERWISE, SLAB TO BE MINIMUM 100mm MINIMUM THICK ON 50mm SAND BLINDING AND REINFORCED WITH 1 LAYER SL72 FABRIC PLACED 30mm FROM TOP OF SLAB WITH ADDITIONAL REINFORCEMENT AS INDICATED.
- 5. INTERNAL AND EXTERNAL BEAMS ARE TO BEAR ONTO NATURAL CLAY MATERIAL, APPROXIMATELY 200mm BELOW NATURAL SURFACE.
- 6. PROVIDE A 0.2mm THICK HIGH IMPACT RESISTANT DAMP PROOFING MEMBRANE TO THE UNDERSIDE OF SLAB.

NOTE: THIS DESIGN IS BASED ON NEW RESIDENTIAL SLABS AND FOOTINGS CODE AS.2870-2011



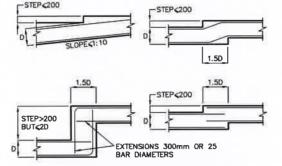
T-INTERSECTION

REINFORCEMENT LAPPING DETAILS

DETAILS ARE TYPICAL FOR TOP AND BOTTOM OF STRIP FOOTINGS AND BOTTOM OF RAFT SLAB BEAMS.

MINIMUM LAP REQUIREMENT

REINFORCEMENT	MIN SPLICES	MIN LAP AT "T" INTERSECTIONS	MIN LAP AT "L" INTERSECTIONS
REINFORCING BAR(N BARS)	500	FULL WIDTH ACROSS JUNCTION	L-BAR LAPPED 500 MIN
TRENCH MESH	500	FULL WIDTH ACROSS JUNCTION	FULL WIDTH ACROSS JUNCTION



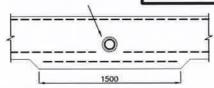
ACCEPTABLE METHODS OF STEPPING STRIP FOOTINGS

WRAP PIPE USING MIN. 20mm COMPRESSIVE MATERIAL (FOR M & H1 SITES) & 40mm (FOR H2 & E SITES.)

FOOTINGS ARE TO BE FOUNDED BELOW THE TOPSOIL AND INTO THE UNDISTURBED NATURAL MATERIAL APPROXIMATELY 600 BELOW NATURAL SURFACE WITH

AN ALLOWABLE BEARING CAPACITY OF 100kPa

NOTE: FOR "H" & "E" SITES
ALL DRAINS ATTACHED TO OR EMERGING
FROM UNDERNEATH THE BUILDING SHALL
INCORPORATE FLEXIBLE JOINTS IMMEDIATELY
OUTSIDE THE FOOTING AND WITHIN 1m
OF BUILDING PERIMETER.
OFFED ACRES (45) REFER AS2870(5.6.4(b))

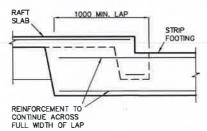


PIPE PENETRATION DETAIL

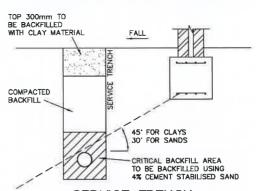
PENETRATIONS THRU BEAMS TO OCCUR IN THE MIDDLE THIRD OF THE BEAM DEPTH. LOCALLY DEEPEN BEAM AS REQUIRED & PROVIDE AN ADDITIONAL LAYER TRENCH MESH IN THIS AREA.

NOTE: WHERE PIPES PASS UNDER THE FOOTING SYSTEM.THE TRENCH SHALL BE BACKFILLED FULL DEPTH WITH CLAY TO ACT AS A BARRIER TO THE

THE BASE OF ALL TRENCHES SHALL BE SLOPED AWAY FROM THE BUILDING.

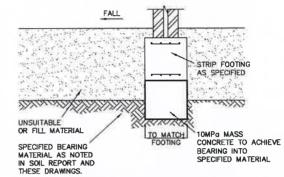


STRIP FOOTING TO RAFT SLAB LAPPING DETAIL

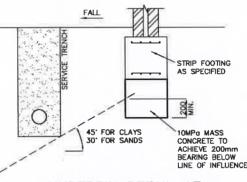


SERVICE TRENCH

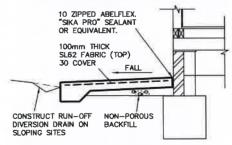
STABILITY OF SERVICE TRENCHES TO BE MAINTAINED DURING CONSTRUCTION



UNDERPIN DETAIL TO ACHIEVE MINIMUM BEARING



UNDERPIN DETAIL AT EXISTING SERVICE TRENCH



TYPICAL PATHWAY DETAIL

PATHWAY WITH FALL AWAY FROM BUILDING RECOMMENDED TO PERIMETER OF BUILDING PROVIDE CONTROL JOINTS AT MAX. 3000CTS.

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE APPROVED BUILDING DESIGNER AND CONSULTANT'S DRAWINGS AND SPECIFICATION AND WITH WRITTEN INSTRUCTION ISSUED DURING THE CONTRACT PERIOD.
- 2. DISCREPANCIES SHALL BE REFERRED TO THE BUILDING DESIGNER AND XEROS PICCOLO PRIOR TO CONSTRUCTION.
- 3. DO NOT SCALE OFF THESE DRAWINGS. SETTING OUT DIMENSIONS MUST BE VERIFIED BY THE BUILDING CONTRACTOR ON SITE.

THE ADEQUACY OF DESIGN DETAILS ON THESE DRAWINGS HAS BEEN DETERMINED BY PRE DESIGN SITE INVESTIGATION AND MUST BE VERIFIED DURING CONSTRUCTION BY XEROS PICCOLO.

IN ACCORDANCE WITH AS 2870 RESIDENTIAL SLABS AND FOOTINGS:

TYPE OF CONSTRUCTION	CLAD FRAME
SITE CLASSIFICATION	"M-D"
CLASSIFIED BY	XEROS PICCOLO CONSULTING ENGINEERS
SELECTED FOOTING SYSTEM	STR/SR

SALT AFFECTED AREAS:

- MINIMUM REQUIREMENTS IN SALT AFFECTED AREAS:

 25MPa CONCRETE (W/C = 0.45)

 50mm COVER
- MECHANICAL VIBRATION
- MECHANICAL VIBRATION
 O.2mm HIGH IMPACT RESISTANT DAMP-PROOFING MEMBRANE
 TYPE SR CEMENT
 DAMP CURE FOR 3 DAYS
 EXPOSURE CATEGORY BRICKS BELOW DAMP PROOF COURSE

CONCRETE NOTES:

1. WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS 3600 CONCRETE STRUCTURES AND CURRENT SAA CODES.

2. CONCRETE CHARACTERISTICS:

ELEMENT	GRADE (MPa 28 DAYS)	SLUMP (mm)	MAX. AGG. (mm)	ADDITIVES
FOOTING	N20	80	20	NIL
SLAB	N25	80	20	NIL

- 3. CONCRETE TO BE PLACED USING MECHANICAL VIBRATORS.
- 4. SLAB THICKNESS' DO NOT INCLUDE FINISH.
- 5. REINFORCING BARS AND REINFORCING FABRIC TO BE IN ACCORDANCE WITH RESPECTIVE SAA CODES.

 (i) AS 4671 STEEL REINFORCING BARS FOR CONCRETE:
- O AS 9671 STELL REINFORMS BARS FOR CONCRETE.

 R DENOTES PLAIN ROUND STRUCTURAL GRADE BARS, fsy=250MPa

 N DENOTES STRUCTURAL GRADE DEFORMED BARS, fsy=500MPa

 (ii) AS 4671 WELDED WIRE REINFORCING FABRIC FOR CONCRETE:

 L DENOTES HIGH TENSILE WELDED WIRE FABRIC, fsy=500MPa

ELEMENT		COVER (mm)
SURFACES IN CONTACT WITH (
- WITHOUT MEMBRANE		50
WITH MEMBRANE	SLAB	30
	FOOTING	50
ABOVE GROUND INTERIOR		30
ABOVE GROUND EXTERIOR		30

- 7, MASONRY SUPPORTING SLABS TO HAVE 2 LAYERS ALCOR "SLIP JOINT" BETWEEN THE TWO SURFACES.
- 8. SLABS ABUTTING MASONRY OR CONCRETE TO HAVE 10mm ZIPPED ABELFLEX BETWEEN THE SURFACE AND SEALED WITH AN APPROVED EXTERNAL GRADE POLYURETHANE SEALANT "SIKA PRO" OR SIMILAR.

- TERMITE PROTECTION TO BE IN ACCORDANCE WITH NCC REQUIREMENTS
 AND AS 3660 PROTECTION OF BUILDINGS FROM SUBTERRANEAN TERMITES.
- 2. DAMP PROOFING TO BE IN ACCORDANCE WITH NCC. REQUIREMENTS.

FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE:

- 1. THE OWNER'S ATTENTION IS DRAWN TO APPENDIX B OF AS 2870 PERFORMANCE CRITERIA AND FOUNDATION MAINTENANCE AND CSIRO INFORMATION SHEET NO.BIT 18(2011) — GUIDE TO HOME OWNERS ON FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE WHICH HAS BEEN ATTACHED TO THIS DOCUMENTATION AND IS AVAILABLE IN THE OFFICES OF XEROS PICCOLO CONSULTING ENGINEERS FOR PERUSAL
- ATTENTION IS DRAWN IN PARTICULAR TO THE EXISTENCE OF TREES ON CLAY SITES AND PROVISION OF SURFACE DRAINAGE.

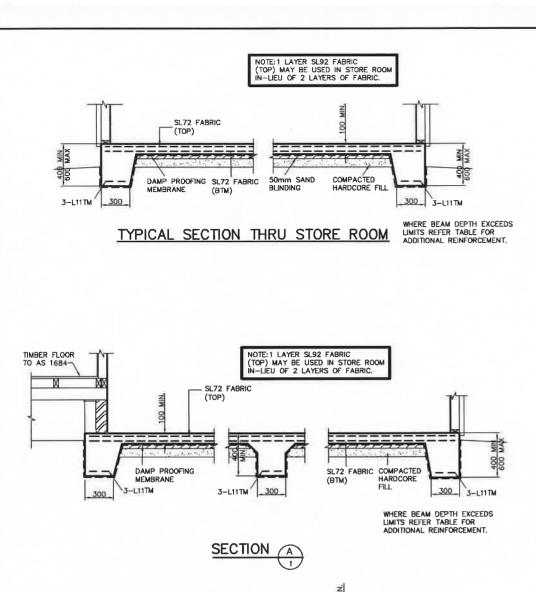
BY	AMENDMENTS	No.
8X	ISSUED FOR CLIENT REVIEW	Α
BX	ISSUED FOR CONSTRUCTION	В
BX	GENERAL REVISIONS	С
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PROPOSED ALTERATIONS & ADDITIONS LOT 1, 907 RIVER ROAD, WELAREGANG for H. McGRATH

Sheet Subject: FOOTING PLAN & DETAILS Client: JONES DESIGNS

Scale: 1:100,1:20(A1) Design: N.G. Drawn: A.B.X. NOW 2020 Chk'd:

S BYE STREET WAGGA WAGGA, NSW, 2650 TEPHONE (02) 6925 5855 FACSIMILE (02) 6925 5655 MAIL WAGGA (1708PICCOLGICOMIAU S 200856-1



TILED FLOOR TO — DETAILS BY OTHERS

EXISTING BUILDING

SECTION B

TIMBER DECK TO AS 1684.

SECTION C

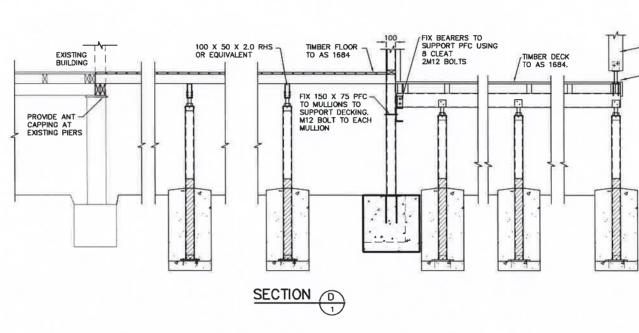
TIMBER POST TO AS.1684

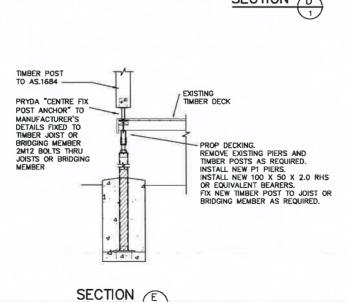
PRYDA "CENTRE FIX PRYDA CENTRE FIX POST ANCHOR® TO MANUFACTURER'S DETAILS FIXED TO TOP OF BEARER 2M12 BOLTS THRU

STRIP FOOTING TO BE CONTINUOUS THRU PIERS

EXISTING BUILDING

M10 BOLTS AT 600 CTS. MAX. TO EXISTING BEARERS





ADDITIONAL REINFORCEMENT TABLE

FOR BEAM DEPTHS >600 PROVIDE MINIMUM 2N12 BARS TOP TO BEAMS

NOTE: WHERE EXTERNAL BEAMS ARE RETAINING >750 PROVIDE ADDITIONAL SLAZ FABRIC VERTICAL OR N12 BARS AT 400 CTS BOTH WAYS.

(VERTICAL BARS TO BE COGGED 300 INTO SLAB)

BEAM REINFORCEMENT

3-L11TM +2N16

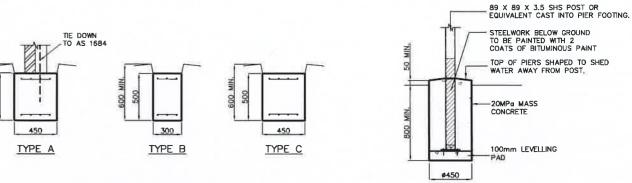
3-L11TM 3-L11TM +1N12

(BOTTOM STEEL)

BEAM DEPTH

850-1200

<600



STRIP FOOTING DETAILS

AT MAXIMUM 900CTS.

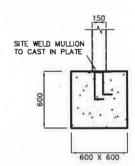
UNLESS NOTED OTHERWISE, STRIP FOOTINGS ARE TO BE REINFORCED WITH L11TM TOP AND BOTTOM AND TIED WITH (400mm) BOGAR CUPS OR EQUIVALENT

TYPICAL PIER(P1) DETAIL TO SUIT TIMBER FLOOR LAYOUT (MAX. 1.8m CTS)

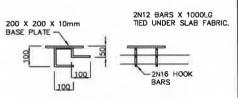
TIMBER POST -TO AS.1684

PRYDA "CENTRE FIX

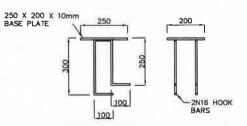
PRYDA CENTRE FIX
POST ANCHOR" TO
MANUFACTURER'S
DETAILS FIXED TO
TOP OF BEARER
2M12 BOLTS THRU
JOISTS



TYPICAL PAD(P2) DETAIL



TYPICAL CAST IN PLATE DETAIL "CP"



TYPICAL CAST IN PLATE DETAIL "CP1"

No.	DATE	AMENDMENTS	В
Α	DEC 2020	ISSUED FOR CLIENT REVIEW	В
В	FEB 2021	ISSUED FOR CONSTRUCTION	В
С	SEPT 2021	GENERAL REVISIONS	В

PROPOSED ALTERATIONS & ADDITIONS LOT 1, 907 RIVER ROAD. WELAREGANG for H. McGRATH

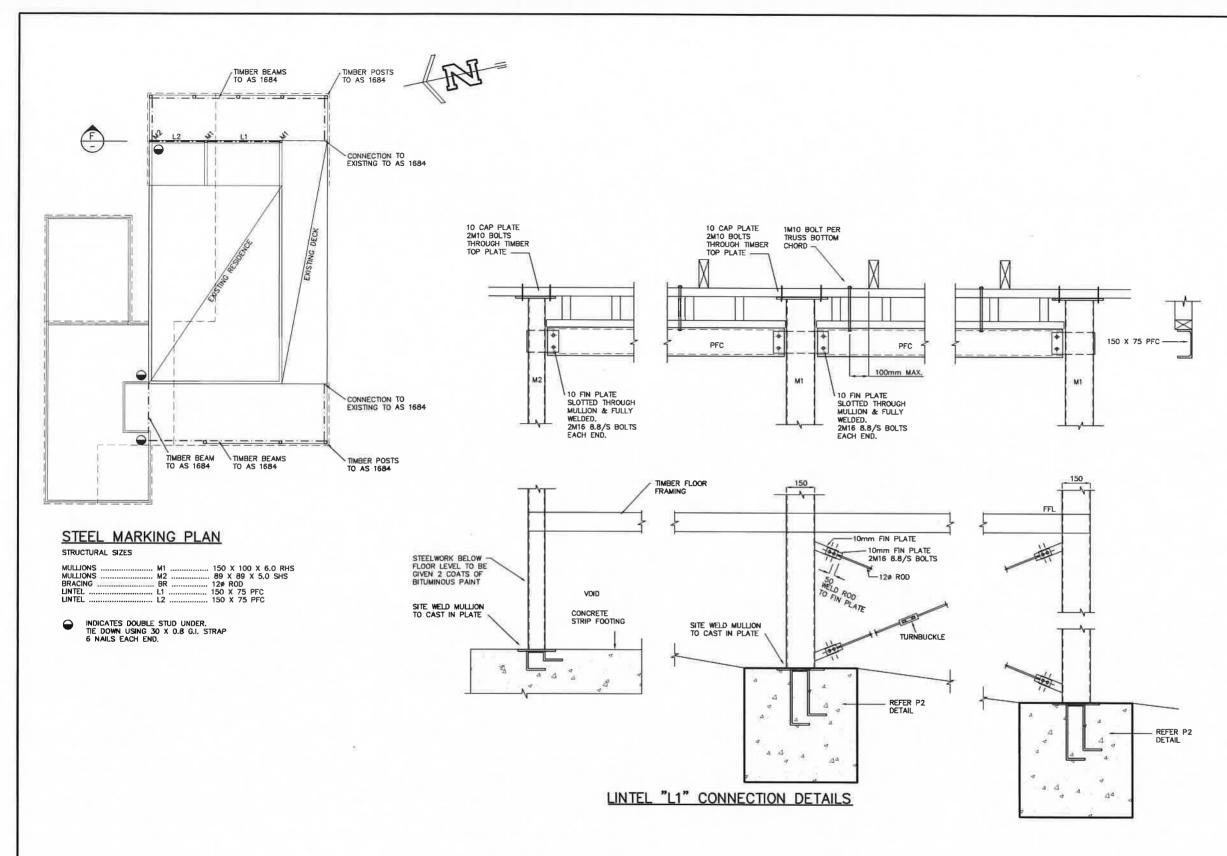
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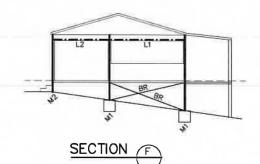
Client: JONES DESIGNS

Scale: 1:20,1:10(A1) XEROS PICCOLO

5 BYE STREET WAGGA WAGGA, NSW, 2650 TELEPHONE (02) 6925 5855 FACSIMILE (02) 6925 5655

Design: N.G. Drawn: A.B.X. NOV 2020 Date: MEST 3 Chk'ds/// S|200856-2





STEELWORK NOTES:

- 1). STEELWORK TO BE IN ACCORDANCE WITH AS 4100. FABRICATION TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 14 OF AS 4100. ERECTION TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 15 OF
- 2. UNLESS NOTED OTHERWISE, STEEL IS TO BE OF THE FOLLOWING GRADE;

UB"s, UC's, PFC's & LARGE ANGLES TO AS/NZS 3679.1

WELDED SECTIONS TO AS/NZS 3679.2 GRADE 300

HOT ROLLED PLATES, FLOOR PLATES AND SLABS TO AS AS/NZS 3678

GRADE 250

HOLLOW SECTIONS TO AS 1163 GRADE C350

COLD FORMED PURLINS AND GIRTS TO AS 1397

GRADE G450 Z350

GRADE 300

- 3. DIMENSIONS AND SETOUTS TO BE OBTAINED FROM ARCHITECTURAL DRAWINGS WHERE NOT INDICATED ON STRUCTURAL DRAWINGS.
- 4. THE FABRICATOR SHALL PROVIDE CLEATS AND DRILL HOLES NECESSARY FOR FIXING OTHER ELEMENTS TO THE STEEL WHETHER OR NOT DETAILED ON THE STRUCTURAL DRAWINGS.
- THE FABRICATION AND ERECTION OF STRUCTURAL STEELWORK IS TO BE SUPERVISED BY A PERSON QUALIFIED IN SUCH SUPERVISION, IN ORDER TO ENSURE ALL DESIGN REQUIREMENTS ARE MET.
- 6. BEAMS AND RAFTERS TO BE INSTALLED WITH NATURAL CAMBER UP
- MEMBERS SHALL BE SUPPLIED IN SINGLE LENGTHS. SPLICES ARE PERMITTED ONLY WHERE SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
- STEELWORK SHALL BE TEMPORARILY BRACED TO STABILISE THE STRUCTURE DURING ERECTION.
- 9. UNLESS NOTED OTHERWISE;
- BOLTS TO BE M20 8.8/S
 CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS
 BOLTS AND WASHERS SHALL BE CALVANISED
 HOLES SHALL BE ZOWN LARGER THAN THE BOLT DIAMETER
 BOLTS TO BE IN ACCORDANCE WITH AS 1252
- 10. WELDING TO BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1 UNLESS NOTED OTHERWISE:
- FILLET WELDS SHALL BE 6mm C.F.W. SP TO AS 1554.1 BUTT WELDS SHALL BE COMPLETE PENETRATION SP TO AS 1554.1
- RADIOGRAPHIC OR ULTRASONIC EXAMINATION TO BE IN ACCORDANCE
- WITH AS1554.1, AS2177.1 AND AS2207 AS APPROPRIATE.
- 11. STEELWORK NOT TO BE ENCASED BY CONCRETE SHALL BE PROTECTED FROM CORROSION IN THE FOLLOWING MANNER; THE STEELWORK IS TO BE CLEANED TO AN AS 1627 CLASS POWER BRUSH PREPARATION AND GIVEN 1 COAT '215 RUST FIGHTER' TO GIVE A DRY FILM THICKNESS OF 40 MICRONS BEFORE DISPATCH TO SITE.
- 12. STEELWORK TO BE ENCASED IN CONCRETE SHALL BE UNPAINTED. ENCASING CONCRETE SHALL BE GRADE N25 PROVIDING ADEQUATE COVER TO SUIT FIRE RATING OR EXPOSURE CONDITIONS. CONCRETE ENCASING SHALL BE REINFORCED WITH 5mm WIRE TO AS 4617 OR 6mm STRUCTURAL GRADE BARS TO AS 4617 AT 150mm PITCH WHERE NOT INDICATED ON STRUCTURAL DRAWINGS.

DEC 2020	ISSUED FOR CLIENT REVIEW	B
FEB 2021	ISSUED FOR CONSTRUCTION	B
SEPT 2021	GENERAL REVISIONS	В
	FEB 2021	FEB 2021 ISSUED FOR CONSTRUCTION

PROPOSED ALTERATIONS & ADDITIONS LOT 1, 907 RIVER ROAD. WELAREGANG for H. McGRATH

Sheet Subject:

STEEL MARKING PLAN & DETAILS

Client: JONES DESIGNS Scale: 1:100,1:10(A1) XEROS PICCOLO

Design: N.G. Drawn: A.B.X/. Date: NOV 2020 Chk'd:90 SHEETS IN SET S 200856-3