

STEELWORK MEMBER SCHEDULE		
MARK	MEMBER SIZE	REMARKS
C1	150UC 23.4	GRADE 300 COLUMN
FB1	50x5 EA	GRADE 300 FLY BRACE
R1	250UB 31.4	GRADE 300 RAFTER
P1	C250-24	GRADE 450 PURLIN @ 1200 CENTRES. 2 ROWS BRIDGING

- SUPER STRUCTURE LOADING NOTES**
- ALL LOADS ARE ACCORDING TO AS1170
 - DEAD LOADS:
 - A) SELF WEIGHT OF STEELWORK STRUCTURE, PURLINS & STEEL SHEETING = 0.15 kPa.
 - LIVE LOADS:
 - A) 0.25 kPa NON TRAFFICABLE ROOF LOADING TO AS1170.1-2002
 - WIND LOADS:
 - A) REGION A, TERRAIN CATEGORY 2.5 TO AS1170.2 : 2011
 - B) Mf=Ms=1.0, STRUCTURAL IMPORTANCE LEVEL 2 TO AS1170.2-2011

- STRUCTURAL STEELWORK DURABILITY NOTES**
- ATMOSPHERIC CORROSION CATEGORY C2 TO AS4312-2008:
 - A) COVERED STEELWORK: CLASS 2.5 BLAST PLUS 75 MICRON ZINC SILICATE COATING TO AS2312.1-2014 OR ILG 100 TO AS4792-2006.
 - B) EXPOSED STEELWORK: HDG320 TO AS4680-2006.
 - C) COLD FORMED STEELWORK: AZ150 OR AM150 TO AS1397-2011

- BORED PIER NOTES**
- CONCRETE EXPOSURE CLASSIFICATION = A2 TO AS3600-2018
 - CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS AGE)
 - PIER DEPTH & WIDTH AS PER RELATIVE DETAILS
 - PIER REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS WITH 50mm COVER
 - SERVICES TO BE PLACED IN A 300mm WIDE x 450mm DEEP TRENCH A MINIMUM OF 600mm FROM EDGE OF BUILDING TO AVOID UNDERMINING OF FOOTINGS.

- GEOTECHNICAL NOTES**
- NO GEOTECHNICAL REPORT PROVIDED.
 - ASSUMED SOIL CONDITIONS STIFF SILTY CLAY, CLASS "M" TO AS2870-2011.
 - PIER DESIGN SKIN FRICTION 30kPa & BASE BEARING CAPACITY 150 kPa C.O.S.

STRUCTURAL STEELWORK NOTES
1.0 CONSTRUCTION CATEGORY - IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 5131 THE CONSTRUCTION CATEGORIES FOR THIS PROJECT ARE DEFINED IN THE TABLE BELOW:

Element	Importance Level	Service Category	Fabrication Category	Construction Category
All structural steelwork UNO.	IL2	SC1	FC1	CC2

2.0 STRUCTURAL STEELWORK FABRICATION - ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH AS/NZS 5131. ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY COMPETENT PERSONNEL. REQUIREMENTS AND EXAMPLES OF QUALIFICATIONS FOR COMPETENT PERSONNEL ARE CONTAINED IN AS/NZS 5131. MEMBER SIZES SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. NO SUBSTITUTION IS PERMITTED WITHOUT APPROVAL IN WRITING FROM THE ENGINEER.

- 2.5 **BOLTING**
- 4.6/S COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131
 - 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A BEARING JOINT
 - 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A FRICTION JOINT

- 2.6 **WELDING** - WELDING CONSUMABLES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 1554, BASED ON THE YIELD STRENGTH OF THE STEEL TO BE WELDED, AS DEFINED BELOW:
- NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ≤ 500MPa TO CONFORM WITH AUSTRALIAN STANDARD AS/NZS 1554.1
 - NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED >500MPa; ≤ 690MPa TO CONFORM WITH AUSTRALIAN STANDARD AS/NZS 1554.4
 - NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL STEEL WITH GRADE ≤ 300MPa, NOMINAL TENSILE STRENGTH OF WELD METAL, F_w 430MPa.
 - NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL STEEL WITH 300 < GRADE ≤ 450 MPa, NOMINAL TENSILE STRENGTH OF WELD METAL, F_w 490MPa.

- SHOP AND SITE WELDS - WELD CATEGORY G.P. UNO
- 2.7 **MINIMUM CONNECTION DETAILING GUIDELINES** - UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
- a) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD (CFW) ALL ROUND.
 - b) ALL STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MIN TWO M20 GRADE 8.8/S.
 - c) A MINIMUM OF TWO THREADS SHALL EXTEND PAST THE NUT.
 - d) ALL PLATES SHALL BE 10mm MINIMUM THICK.
 - e) ALL PURLIN CLEATS SHALL BE 8mm MINIMUM THICK.

ALL DETAILING WHERE NOT SPECIFICALLY SHOWN SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STEEL INSTITUTE (ASI) CURRENT EDITIONS OF THE 'DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL' AND THE ASI STANDARDISED STRUCTURAL CONNECTION DETAILS CONTAINED THEREIN. THE ENDS OF HOLLOW SECTION MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS SEAL WELDED UNLESS NOTED OTHERWISE. IF HOLLOW SECTIONS ARE TO BE HOT-DIP GALVANIZED, VENT AND DRAINAGE HOLES SHALL BE PROVIDED CONFORMING TO THE REQUIREMENTS OF AS/NZS 5131 IN NON-VIEWABLE LOCATIONS.

2.8 **SURFACE TREATMENT AND CORROSION PROTECTION** - UNLESS NOTED OTHERWISE IN THE CONTRACTUAL DOCUMENTATION, THE MINIMUM SURFACE TREATMENT OF BOTH INTERNAL AND EXTERNAL STEELWORK SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. STRUCTURAL STEELWORK TO BE GALVANIZED SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

3.0 **STRUCTURAL STEELWORK ERECTION** - STRUCTURAL STEELWORK ERECTION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.

6.0 **ADDITIONAL CLAUSES** - THE STRUCTURAL STEELWORK ERECTOR SHALL BE RESPONSIBLE FOR TEMPORARY STABILITY DURING ERECTION. THE STRUCTURAL STEELWORK ERECTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO SECURELY STABILISE THE STRUCTURE DURING ERECTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. NO STEELWORK SHALL BE FABRICATED UNTIL FINAL APPROVAL OF THE SHOP DETAIL DRAWINGS HAS BEEN RECEIVED AND ALL REVIEW COMMENTS ON THE WORKSHOP DRAWINGS HAVE BEEN RESOLVED.

OTHER THAN SITE WELDS (IF ANY) SHOWN ON THE SHOP DRAWINGS, DO NOT WELD ON SITE WITHOUT PRIOR APPROVAL. CONCRETE ENCASED STEELWORK SHALL BE UNPAINTED AND FREE OF SCALE. ALL STEELWORK ABOVE GROUND SHALL BE PLACED CENTRALLY WITH 50mm MINIMUM COVER CONCRETE ENCASEMENT. ALL STEELWORK BELOW GROUND SHALL BE PLACED CENTRALLY WITH 75mm MINIMUM COVER CONCRETE ENCASEMENT. REFER TO DRAWINGS FOR ANY REINFORCEMENT REQUIREMENTS.

ISSUED FOR CONSTRUCTION



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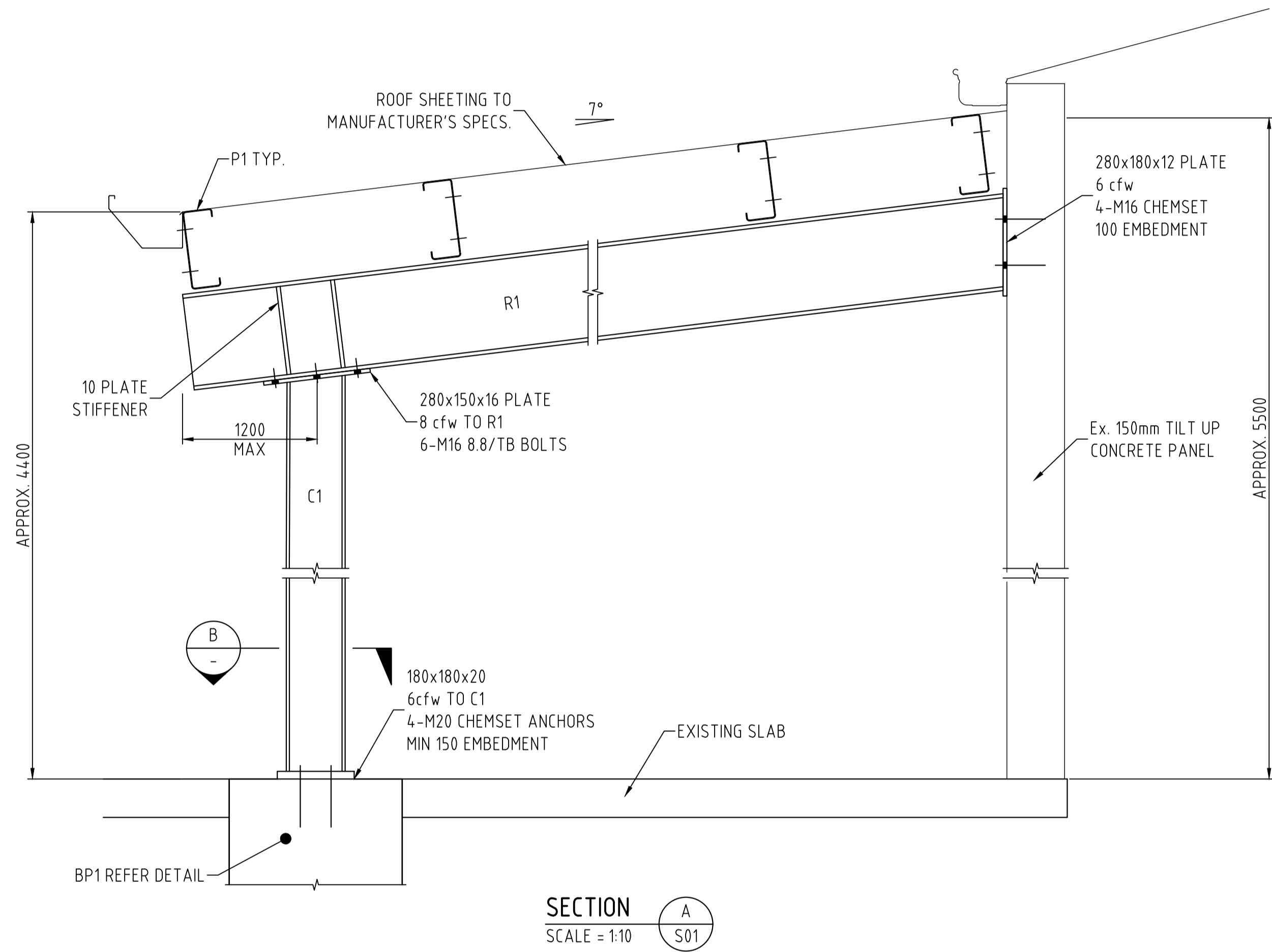
bathurst | coffs harbour | dubbo | mudgee | orange | sydney | tamworth

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH GENERAL BUILDING DRAWINGS, SPECIFICATIONS & OTHER CONSULTANTS DRAWINGS APPLICABLE TO THIS PROJECT. ALL DIMENSIONS IN MILLIMETRES. DO NOT SCALE. DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK. REPORT DISCREPANCIES TO BARNSON PTY LTD. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF BARNSON PTY LTD.

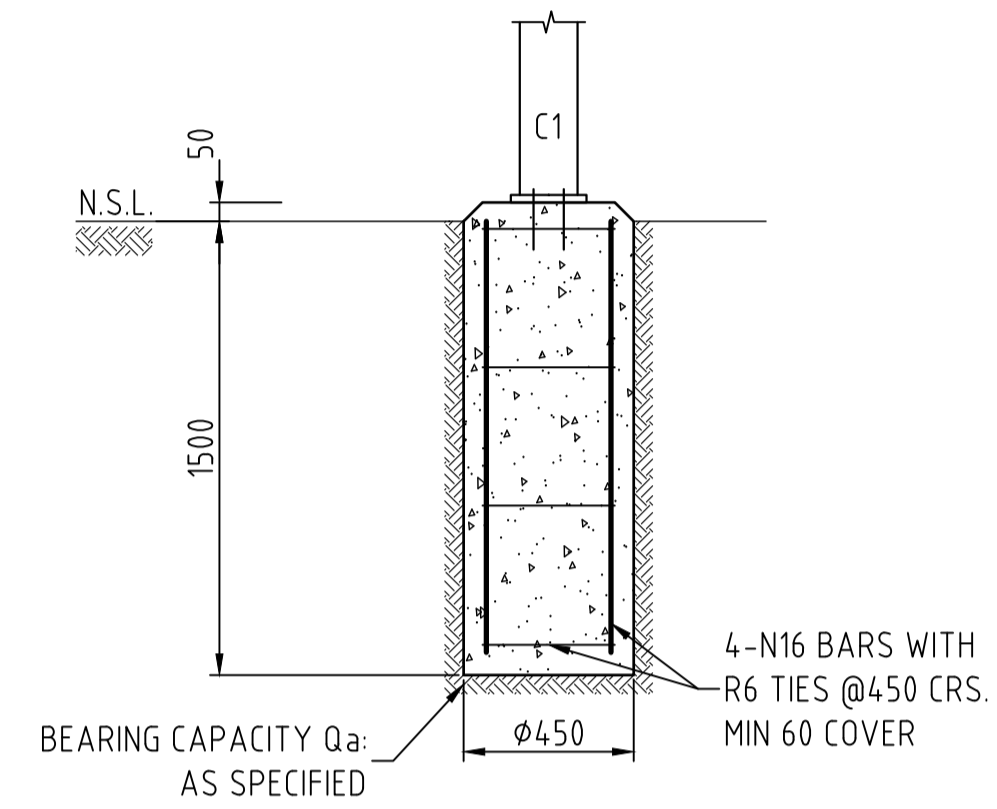
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 Project: **AWNING EXTENSION
 LOT 2 HORATIO LANE
 MUDGEES NSW 2850**
 Drawing Title: **SITE PLAN AND NOTES**

Rev Date Amendment
 0 19-01-2022 ISSUED FOR CONSTRUCTION

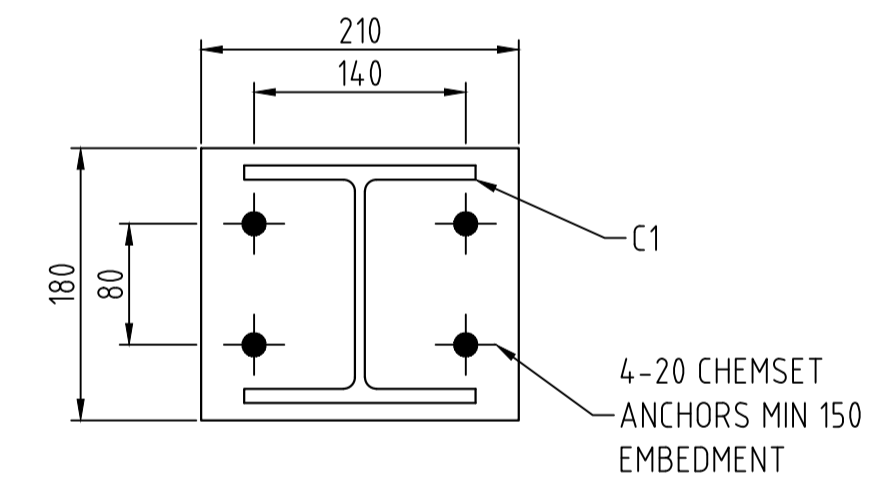
Design **MK** Certification
 Drawn **MK** 19/01/2022
 Richard Noonan BE(Hons) ME FIEAust
 NER 472690
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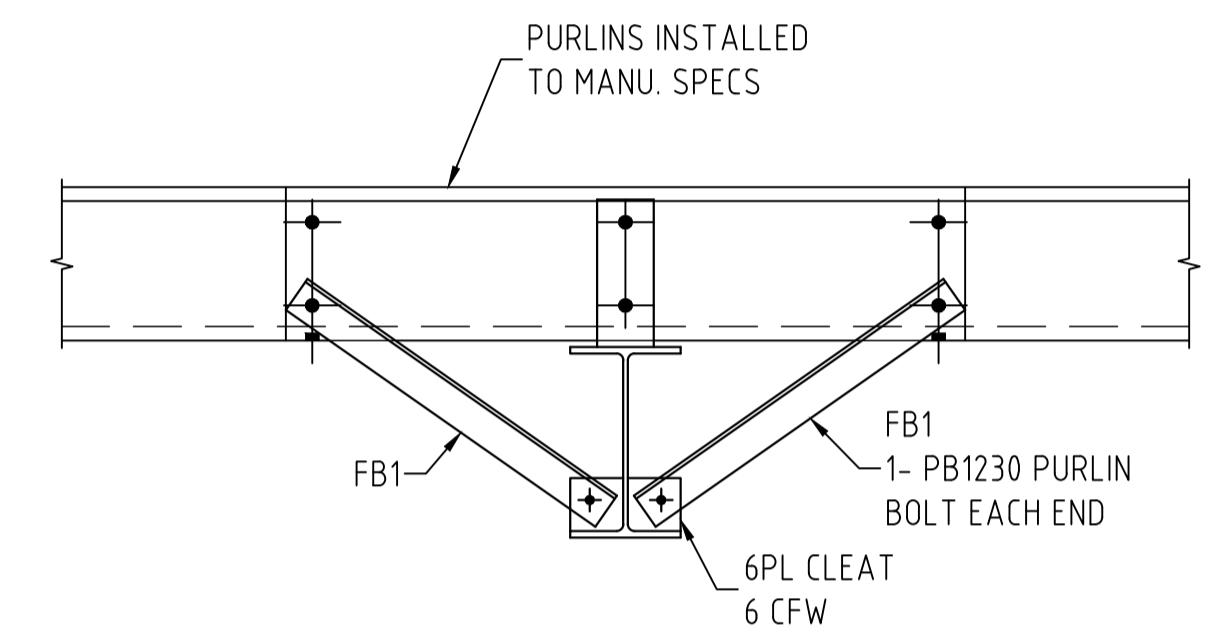
SECTION A
SCALE = 1:10 S01



BP1 - BORED PIER 1
SCALE = 1:20



SECTION B
SCALE = 1:5



FB1 - FLY BRACE DETAIL
SCALE = 1:10

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