CLIENT / ARCHITECT:

STAR OF THE SEA COLLEGE / PRESTON LANE

PROJECT DETAILS:

STAR OF THE SEA REDEVELOPMENT 2 - 6 WILLIAM STREET, GEORGE TOWN

PROJECT No:

231093

DISCIPLINE:

STRUCTURAL

DRAWINGS:

COV-S - STRUCTURAL COVER SHEET

S001 - STRUCTURAL NOTES - SHEET 1

S002 - STRUCTURAL NOTES - SHEET 2

S101 - FOOTING PLAN & FLOOR FRAMING PLAN

S301 - SECTIONS & DETAILS

S601 - FRAMING PLAN - AREA OF WORK A&B

S602 - FRAMING PLAN - AREA OF WORK C

S621 - FRAMING SECTIONS & DETAILS - SHEET 1

S622 - FRAMING SECTIONS & DETAILS - SHEET 2

S701 - WALL BRACING PLAN

S711 - TYPICAL WALL BRACING, TIE-DOWN

& WALL FRAMING NOTES & DETAILS

C	REVIEW / INFORMATION	JMW	24-06-24	\\\\06 Documentation Libraries\03 AutoCAD\Logos\Collective Consulting\CC_A1 Border Logo Box 180x21.5.png	CLIENT / ARCHITECT: STAR OF THE SEA COLLEGE		Preston Lane	PROJECT DETAILS: STAR OF THE SEA REDEVELOPMENT	DRAWING TITLE: STRUCTURAL COVER SHEET			
В	-			COLLECTIVE 1. THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.				2-6 WILLIAM STREET, GEORGE TOWN				
Α			06-03-24	2. These drawings must be approved by council, taswater and any other required authorities prior to commencing construction. 3. The recipient is responsible for ensuring that they review the status of this drawing, and in receipt of the current revision prior to use.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK: CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
REV:	ISSUED FOR / DESCRIPTION:	BY:	DATE:	DISCLATIMEN. 4. INFORMATION PROVIDED WITHIN THIS DECEMENT HAS DELIVERABLE STREET, TEMPORAL PROVIDED WITHIN THIS DECEMENT TO CONTROL THE STREET AND ADMINISTRATION OF THE ACCUSANCE HAS DECEMENT TO THE STREET AND ADMINISTRA	AJL	-	JMW	-	-	231093	COV-S	C

GENERAL NOTES

1. GENERAL

- A THESE DRAWINGS AND NOTES SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, BUILDING SERVICES AND OTHER DISCIPLINES' DRAWINGS AND SPECIFICATIONS AND WITH ANY WRITTEN ENGINEER'S INSTRUCTIONS ISSUED
- B. ANY DISCREPANCIES ARE TO BE REPORTED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK

LEGENDS

. ABBREVIATIONS

APPROX. APPROXIMATE

BRICK

BUILDING

BOTTOM

BASE PLATE

BRICKWORK

CANTILEVER

CHAMFER

CHEMICAL

CORNER

COLUMN

CONCRETE

CENTRES

CENTRE

CYLINDER

BAR DIA

DETAIL

DIMENSION

DEAD LOAD

DRAWING

FXISTING

EFFLUENT

ELEVATION

ESTIMATE

EXPANSION

EXTERNAL

FXISTING

EACH WAY

IN FRONT

FAR FACE

FI ANGE

FLOOR SUMP

FLOOR WASTE

GALVANISED

HORIZONTAL

HEAVY DUTY

GRADE

2. NOTATION EXAMPLES

N12 -300 BTM

SI 82 TOP

SL818 TOP

EQUAL ANGLE

DISTRIBUTION

NOMINAL DIAMETER

DAMP PROOF COURSE

ELECTRIC / ELECTRICAL

EXISTING SURFACE LEVEL

FINISHED FLOOR LEVEL

FULL PENETRATION WELD

FULL STRENGTH BUTT WELD

FINISHED SURFACE LEVEL

GENERAL ARRANGEMENT

HOLDING DOWN BOLTS

TWO No. D500N12 BARS

DIA. or Ø DIAMETER

CONTINUOUS

COUNTERSUNK

COUNTERSUNK HEAD

CHEMSET ANCHORS

CIRCLE / CIRCULAR

CENTRE LINE

ARCH.

CFW

CRS

ADDENDUM

AGGREGATE

ABOVE FINISHED FLOOR LEVEL

AGRICULTURAL DRAIN PIPE

ARCHITECT / ARCHITECTURAL

AUSTRALIAN STANDARD

BASE METAL THICKNESS

CONTINUOUS FILLET WELD

CIRCULAR HOLLOW SECTION

ACCORDANCE WITH

BEHIND or BOTTOM

- C. THESE GENERAL NOTES DO NOT HAVE PRECEDENCE OVER THE SPECIFICATION OR DRAWING NOTES.
- D. ALL SET OUT DIMENSIONS ON THE DRAWINGS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE COMMENCING WORK. DO NOT SCALE FOR DIMENSIONS OFF THESE DRAWINGS.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS SHOWN ARE IN MILLIMETRES WITH THE EXCEPTION OF SURVEY LEVELS, WHICH ARE IN METRES. G. THE CONTRACTOR IS TO ENSURE THAT ANY PROFESSIONALS. TRADESMEN OR SUPPLIERS ENGAGED THROUGHOUT THE DURATION OF THE CONTRACT ARE

ACCREDITED AND QUALIFIED FOR THEIR DUTY OF WORK AND CARRY ALL NECESSARY

PERMITS REQUIRED BY ANY STATUTORY AUTHORITY 2. DESIGN LOADING

- A. THE STRUCTURE HAS BEEN DESIGNED AND DETAILED IN ACCORDANCE WITH ALL RELEVANT AUSTRALIAN STANDARDS AND THE CURRENT BUILDING CODE OF
- B. THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING FLOOR LIVE LOADS IN ACCORDANCE WITH AS1170.1-2002 AND THE PROPOSED FLOOR USE:

INSTITUTIONAL: 4.0kPa C. THE STRUCTURE HAS BEEN DESIGNED FOR ALL SELF WEIGHT AND APPLIED DEAD

- CL or & D. THE STRUCTURE HAS BEEN DESIGNED FOR WIND LOADS IN ACCORDANCE WITH
- AS1170.2-2002:
- REFER 'WIND CLASSIFICATION SCHEDULE' ON DRAWINGS TERRAIN CATEGORY:
- REFER 'WIND CLASSIFICATION SCHEDULE' ON DRAWINGS

3. CONSTRUCTION / TEMPORARY WORKS

- A. DURING CONSTRUCTION IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE STRUCTURE IS MAINTAINED IN A SAFE AND STABLE CONDITION AND NO ELEMENT IS OVERLOADED DUE TO CONSTRUCTION ACTIVITIES.
- TEMPORARY BRACING IS TO BE DESIGNED ACCORDINGLY AND INSTALLED BY THE CONTRACTOR SO THAT ALL BUILDING AND EXCAVATION WORK IS STABLE AT ALL
- C. IF ANY STRUCTURAL COMPONENT DETAILED IN THESE DRAWINGS PRESENTS A PROBLEM WITH BUILDABILITY OR SAFETY. THE CONTRACTOR IS TO REPORT THE PROBLEM TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO PROCEEDING WITH
- D. BEFORE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS, THE CONTRACTOR IS TO PLAN FOR AND CO-ORDINATE ALL FOLLOWING TRADES THAT MAY REQUIRE
- BLOCKOUTS, CHASES, PENETRATIONS, OPENINGS AND FIXINGS. CONTRACTORS ARE TO ENGAGE A TEMPORARY WORKS ENGINEER FOR THE DESIGN OF SCAFFOLDING, FORMWORK, BRACING, BACK PROPPING, LIFTING & CONSTRUCTION
- SEQUENCING. COLLECTIVE CONSULTING ARE ABLE TO PROVIDE TEMPORARY WORKS DESIGN IF REQUIRED BY CONTRACTOR
- CONTRACTORS ARE TO CARRY OUT DILAPIDATION SURVEYS OF THE CONDITION OF ADJACENT STRUCTURES IN THE VICINITY OF WORKS AND PREPARED BY A QUALIFIED

DEMOLITION

1. GENERAL

GENERAL DEMOLITION WORKS TO AS2601

REQUIRED BY CONTRACTOR.

- CONTRACTOR TO MAKE ALL NECESSARY ALLOWANCES FOR REQUIRED DEMOLITIONS. REMOVALS AND RELOCATIONS TO SUIT THE NEW WORKS. ITEMS TO BE DEMOLISHED SHOWN DOTTED TYPICAL.
- PROVIDE TEMPORARY SUPPORT FOR LOAD BEARING SECTIONS OF EXISTING BUILDINGS WHICH ARE TO BE ALTERED, UNTIL PERMANENT SUPPORT IS INSTALLED. D. COLLECTIVE CONSULTING ARE ABLE TO PROVIDE TEMPORARY WORKS DESIGN IF

DISCREPANCIES & ALLOWANCES

STRUCTURAL ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES ARE TO BE REFERRED TO THE DESIGNER FOR CLARIFICATION, AND FOR TENDERING PURPOSES TENDERERS ARE TO ALLOW FOR THE HIGHER COST ITEM. REFER ARCH. DRAWINGS FOR ADDITIONAL STEELWORK / METALWORK NOT SHOWN ON STRUCTURAL DRAWINGS.

SITE INSPECTIONS

- A. COLLECTIVE CONSULTING SHALL ALWAYS BE GIVEN MIN. 48 HOURS NOTICE PRIOR TO ALL REQUIRED INSPECTIONS.
- B. SITE INSPECTIONS REQUIRED DURING CONSTRUCTION / HOLD POINTS BEFORE
 - COMMENCEMENT OF WORK ARE AS FOLLOWS; - EXPOSED SUB-GRADE
 - FOUNDATION MATERIAL FOR FOOTING TRENCHES
 - FOOTING AND SLAB REINFORCEMENT
 - WALL BRACING AND TIE DOWN

FIRE RATING LEVELS

THE FOLLOWING FIRE RATING LEVELS ONLY APPLY TO LOAD BEARING ELEMENTS.

REFER ARCHITECT

- COLUMNS - EXTERIOR REFER ARCHITECT - COLUMNS - INTERIOR - ROOF / STAIRS REFER ARCHITECT

LEGENDS - CONTINUED

HORIZONTAL HIGH STRENGTH HIGH-TENSILE STEEL HARDWOOD INTERNAL DIAMETER INTERNAL JUNCTION LENGTH / LONG LEFT HAND LIGATURES LONGITUDINA MASONRY ANCHOR MAN MANUFACTURER MAX. MAXIMUM MINIMUM MISCELLANEOUS MSRY MASONRY NORTH NEGATIVE

NUMBER

NOMINAL

OVERALL

OVERHEAD

OPPOSITE

PARALLEL

PLYW00D

PREFAB. PREFABRICATED

PRELIM.

RAD

RFINE

RE0

RSA

RSC

U.N.O.

U/S

VERT.

D500SL818 RECTANGULAR MESH IN THE TOP OF THE MEMBER.

250R Ø10 PLAIN BAR LIGATURES AT 400 MAX. CENTRES IN THE MEMBER.

D500SI 82 SQUARE MESH IN THE TOP OF THE MEMBER

3-L12TM TOP & BTM 3 No. BAR SL12TM TRENCH MESH IN TOP AND BOTTOM OF MEMBER

D500N12 BARS AT 300 MAX. CENTRES IN THE BOTTOM OF MEMBER.

POST TENSIONED

PRELIMINARY

QUANTITY

REFERENCE

RIGHT HAND

REINFORCEMENT

REINFORCEMENT

REDUCED LEVEL

SURFACE LEVEL

SPECIFICATION

STORMWATER

TO BE ADVISED

TO BE CONCLUDED

TENSILE STRENGTH

UNEQUAL ANGLE

UNIVERSAL BEAM

UNDERGROUND

UNDERSIDE

VERTICAL

UNIVERSAL COLUMN

UNLESS NOTED OTHERWISE

STANDARD

SOUARE

TYPICAL

ROLLED-STEEL ANGLE

ROLLED-STEEL JOIST

ROLLED-STEEL CHANNEL

SOLIARE HOLLOW SECTION

RADIUS

ROUND

PLAN DETAIL

PARALLEL FLANGE CHANNEL

RECTANGLE / RECTANGULAR

RECTANGULAR HOLLOW SECTION

PRECAST

NOMINAL SIZE

NOT TO SCALE

OUTSIDE DIAMETER

COLUMN CB CONC. BEAM SLAB CONTROL / CONSTRUCTION JOINT SLAB FALL THROUGH DOORWAY DH DOOR HEAD DOOR JAMB D.J DP MASS CONC. DRILLED PIER DOUBLE STUD EJ SLAB EXPANSION JOINT Fa FASCIA TRUSS FR FLY BRACE

3 NOTATION MARKS

B BEAM / BEARER

BOLLARD

BRACING

BATTEN

RR BOND BEAM

Bol

BAJ BRICK ARTICULATION JOINT

BCJ BLOCK CONTROL JOINT

4. SYMBOLS

00.00 TOP OF FOOTING R.L.

DIRECTION OF SPAN

BLOCK PIER

____ LOAD BEARING MASONRY UNDER

CONC. PRECAST WALL PANEL

UNDER SLAB

UNDER SLAB

110mm FACE BRICKWORK

— AG — AGRICULTURAL PIPE DRAIN

K&D FIRED CLAY

— s — SEWER LINE

— es — EXTG SEWER LINE

-50

or

110mm FACE BRICKWORK PIER

BEARING MASONRY UNDER

CONC. PRECAST WALL PANEL

CONC. PRECAST COLUMN

CONC. PRECAST COLUMN

SUPERBLOCK BLOCKWORK

FLOOR SLAB SETDOWN

— eAG — EXTG AGRICULTURAL PIPE DRAIN

REFER ARCH. DRAWINGS

BLOCKWORK

===== NON-LOAD

LOAD BEARING

SLAB MARK, REFER SCHEDULE FOR

SLAB DEPTH, REINF., FORM ETC.

FRAME FLOOR TRUSS FT GIRT GRATED DRAIN

GP GRATED PIT JOIST LINTEL **LBW** LOAD BEARING WALL **Le** LEDGER

 sw — Stormwater line TIMBER LINTEL - REFER SCHEDULE Lt esw — EXTG STORMWATER LINE MULLION — w — WATER LINE OUTRIGGER — eW — EXTG WATER LINE PURLIN CONC. PEDESTAL MASS CONC. PAD FOOTING

Pe PF PILE Pi CONC. PLINTH RAFTER RAKER TIMBER ROOF TRUSS RT

RW RETAINING WALL FOOTING **SCJ** SLAB SAWCUT JOINT (1/4 DEPTH OF SLAB) SAWCUT WITHIN 24 HOURS OF POUR STRIP FOOTING

SR SLAB REBATE St STRUT / STUB **ST** SLAB THICKENING TIE MEMBER Tr STEEL TRUSS MASS CONC. UNDERPIN **WP** CAST IN WELD PLATE

WPJ SLAB WEAKENED PLANE JOINT

FOUNDATION NOTES

GENERAL

- REFER TO CSIRO BUILDING TECHNICAL FILE BTF18 'FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNERS GUIDE'. PLEASE USE THIS DOCUMENT AS A GUIDE TO MAINTENANCE REQUIREMENTS FOR THE PROPOSED STRUCTURE.
- WE REFER YOU TO 'APPENDIX B: FOUNDATION PERFORMANCE AND MAINTENANCE' OF AS2870-2011 FOR DETAILED INFORMATION ON FOUNDATION MAINTENANCE. WE NOTE THE FOLLOWING POINTS TAKEN FROM THIS APPENDIX:
- B.1. SOILS: ALL SOILS ARE AFFECTED BY WATER. SILTS AND SANDS ARE WEAKENED BY WATER. CLAYS SWELL AND SHRINK DUE TO CHANGE IN MOISTURE CONTENT. THIS PHENOMENON ADVERSELY IMPACTS
- FOUNDATIONS. B.2. FOUNDATION DESIGN: ENGINEERS DESIGN FOUNDATIONS FOR SOILS IN A MAINTAINED CONDITION. ENGINEERS DO NOT DESIGN FOR FOUNDATIONS
- FOR EXTREME CONDITIONS THAT COULD OCCUR SHOULD THE SITE NOT BE PROPERLY MAINTAINED: LINEESS INSTRUCTED OTHERWISE B.3. PLUMBING: OWNERS SHOULD ALWAYS REPAIR PLUMBING LEAKS (WATER,
- SEWERAGE OR STORMWATER) IN AN URGENT MANNER. B.4. SITE DRAINAGE: GRADE THE SITE SO WATER DOES NOT POND AGAINST OR NEAR THE BUILDING, GROUND IMMEDIATELY ADJACENT A BUILDING SHOULD FALL AWAY FROM THE BUILDING AT A 1:50 MINIMUM SLOPE. SUB-FLOOR SPACE FOR A BUILDING WITH A SUSPENDED FLOOR SHOULD

GRADE TO A DRAINED POINT TO PREVENT PONDING. 2. TREES AND LANDSCAPING

- WE REFER YOU TO 'APPENDIX B: FOUNDATION PERFORMANCE AND MAINTENANCE' OF AS2870-2011 FOR DETAILED INFORMATION ON FOUNDATION MAINTENANCE. WE NOTE THE FOLLOWING POINTS TAKEN FROM THIS APPENDIX
 - A.1. GARDEN LIMITATIONS: DEVELOPMENT OF GARDENS SHOULD NOT INTERFERE WITH DRAINAGE REQUIREMENTS OR SUB-FLOOR VENTILATION AND WEEPHOLE DRAINAGE. GARDEN BEDS ADJACENT BUILDINGS SHOULD BE AVOIDED. AVOID OVER WATERING OF GARDENS CLOSE TO BUILDING
 - A.2. RESTRICTIONS ON TREES AND SHRUBS: PLANTING OF TREES SHOULD BE AVOIDED NEAR FOUNDATIONS OF BUILDINGS OR WITHIN CLOSE PROXIMITY TO NEIGHBORING BUILDINGS ON REACTIVE SITES. TO REDUCE, BUT NOT ELIMINATE THE POSSIBILITY OF DAMAGE. TREES SHOULD BE PLANTED IN ACCORDANCE WITH THE FOLLOWING SETBACKS:

1.5 x MATURE HEIGHT FOR CLASS E SITES

1 x MATURE HEIGHT FOR CLASS H1 & H2 SITES 3/4 x MATURE HEIGHT FOR CLASS M SITES

INCREASE THE ABOVE SETBACKS FOR ROWS OF TREES AS DIRECTED BE AN FNGINFFR ON SITE

A.3. TREE REMOVAL: REMOVAL OF TREES MAY CAUSE FOUNDATION PROBI FMS FOR NEW DWELLINGS THAT REQUIRE TREES TO BE REMOVED. A PERIOD OF 12 MONTHS IS REQUIRED BETWEEN REMOVAL OF TREES AND COMMENCING CONSTRUCTION TO ALLOW THE SOILS TO RETURN TO THEIR NATURAL MOISTURE EQUILIBRIUM. SHOULD THE OWNER NEED TO CONSTRUCT THEIR BUILDING WITHIN A 12 MONTH PERIOD BETWEEN TREE REMOVAL AND CONSTRUCTION, REFER THIS MATTER TO THE GEOTECHNICAL ENGINEER FOR FURTHER DIRECTION. REMOVAL OF TREES AFTER CONSTRUCTION OR TREES CLOSE TO EXISTING DWELLINGS MAY CAUSE FOUNDATION PROBLEMS AND FURTHER DIRECTION FROM THE GEOTECHNICAL ENGINEER IS REQUIRED.

A.4. DESIGN OF FOOTINGS FOR TREES: SHOULD THE HOMEOWNER HAVE NO ALTERNATIVE AND REQUIRE THEIR FOOTINGS TO BE DESIGNED FOR TREES, CONTACT COLLECTIVE CONSULTING FOR ADVICE

3. CUTS AND FILLS

CUTS AND FILLS ON SITE SHOULD BE MINIMISED AND LIMITED TO LESS THAN 1.5m IN HEIGHT AND BATTERED AT AN ANGLE NO STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL.

MAINTAIN VEGETATION ON HILL SIDE AND RE-VEGITATE CUT AND FILL BATTERS.

4. SITE DRAINAGE

- PROVIDE SUB-SOIL DRAINS IN SERVICE TRENCHES AND FOOTINGS WHICH ENCOUNTER GROUND WATER. CONNECT TO COUNCIL STORM WATER SYSTEM.
- SERVICE TRENCHES ARE TO RUN UP AND DOWN CONTOURS AS FAR AS PRACTICAL
- REFER HYDRAULIC ENGINEERS OR BUILDING DESIGNERS DRAWINGS FOR DETAILS. SURFACE WATER TO BE DIRECTED AWAY FROM THE BUILDING DURING & AFTER CONSTRUCTION. ENSURE NO PONDING OF WATER OCCURS ADJACENT TO BUILDING.

UNIFORM FOUNDING MATERIAL

ALL FOUNDATIONS ARE TO BE FOUNDED ON UNIFORM FOUNDING MATERIAL. INSTALL BULK PIERS OR BORED PIERS TO UNIFORM FOUNDING MATERIAL IF REQUIRED AS DIRECTED BY ENGINEER ON SITE.

6. GEOTECHNICAL REPORT

CONTRACTORS ARE TO READ THE GEOTECHNICAL REPORT AVAILABLE FROM CLIENT OR COLLECTIVE CONSULTING & ENSURE THEY COMPLY WITH ALL RECOMMENDATIONS & CONDITIONS MADE BY THE GEOTECHNICAL ENGINEER COLLECTIVE CONSULTING ACCEPT NO RESPONSIBILITY FOR FAILURE TO COMPLY WITH THESE CONDITIONS

SOIL AND WATER MANAGEMENT

CONTRACTOR TO ALLOW TO;

AS MUCH AS POSSIBLE

WATER SYSTEM

3. NRM GUIDELINES

FACT SHEET 1:

FACT SHFFT 2:

FACT SHEET 11:

SEDIMENT FENCES

STORMWATER SYSTEM

A.2. DIVERT UP-SLOPE WATER WHERE PRACTICAL

A.6. LEAVE AND MAINTAIN VEGETATED FOOTPATH

FACT SHEET 3: SOIL & WATER MANAGEMENT PLANS

FACT SHEET 8: EROSION CONTROL MATS & BLANKETS

FACT SHEET 10: EARLY ROOF DRAINAGE CONNECTION

FACT SHEET 14: SEDIMENT FENCES & FIBRE ROLLS

FACT SHEET 15: PROTECTION OF STORMWATER PITS

FACT SHEET 16: MANAGE CONCRETE, BRICK & TILE CUTTING

FACT SHEET 9: PROTECT SERVICE TRENCHES & STOCKPILES

FACT SHEET 5: MINIMISE SOIL DISTURBANCE

FACT SHEET 6: PRESERVE VEGETATION

FACT SHEET 7: DIVERT UP-SLOPE WATER

FACT SHEET 12: STABILISED SITE ACCESS

FACT SHEET 13: WHEEL WASH

FACT SHEET 17: SEDIMENT BASINS

FACT SHEET 19: SITE RE-VEGETATION

FACT SHEET 18: DUST CONTROL

A 8 RESTRICT VEHICLE MOVEMENT TO A STABILISED ACCESS.

GENERAL

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH 'SOIL & WATER MANAGEMENT ON BUILDING & CONSTRUCTION SITES' GUIDELINES AVAILABLE FROM

FILTER LARGE PARTICLES PRIOR TO STORMWATER SYSTEM

NORTHERN RESOURCE MANAGEMENT (NRM). 2. SOIL EROSION CONTROL

A.4. WASH EQUIPMENT IN DESIGNATED AREA THAT DOES NOT DRAIN TO STORM

A.5. PLACE STOCK PILES AWAY FROM ON-SITE DRAINAGE & UP-SLOPE FROM

A.7. STORE ALL HARD WASTE & LITTER IN A DESIGNATED AREA THAT WILL

CONTRACTOR TO COMPLETE ALL WORKS IN ACCORDANCE WITH NRM SOIL & WATER

SOIL & WATER MANAGEMENT ON LARGE BUILDING & CONSTRUCTION SITES

FACT SHEET 4: DISPERSIVE SOILS - HIGH RISK OF TUNNEL EROSION

SCOUR PROTECTION - STORMWATER PIPE OUTFALLS & CHECK DAMS

SOIL & WATER MANAGEMENT ON STANDARD BUILDING & CONSTRUCTION SITES

MANAGEMENT ON BUILDING & CONSTRUCTION SITE USING THE FOLLOWING FACT

PREVENT IT FROM BEING BLOWN AWAY & WASHED INTO THE

SOIL EROSION CONTROL TO BE IN ACCORDANCE WITH NRM GUIDELINES.

1. GENERAL

DURABILITY EXPOSURE CLASSIFICATIONS FOR SURFACES FOR MEMBERS ARE: - IN CONTACT WITH GROUND: A2

USE OF CALCIUM CHLORIDE IN CONCRETE IS NOT PERMITTED.

- EXTERNAL ENVIRONMENT: B2 - INTERNAL ENVIRONMENT: A1

AS3600 AND THE RELEVANT SPECIFICATIONS.

REINFORCED CONCRETE

- A.1. LIMIT DISTURBANCE WHEN EXACTING BY PRESERVING VEGETATED AREAS CONCRETE COVER TO REINFORCEMENT AS NOTED BELOW AND ON THE DRAWINGS.
 - REINFORCEMENT NOTATION:

MIN. SLAB MESH LAPS

1200

1400

1700

PRESSURE SENSITIVE WATERPROOF PAINT

N24

N28

N32

- N HOT ROLLED GRADE 500 DEFORMED (RIBBED) BAR, DUCTILITY CLASS N TO A.3. INSTALL SEDIMENT FENCES DOWN SLOPE OF ALL DISTURBED LANDS TO
 - - R STRUCTURAL GRADE 250 PLAIN BAR TO AS4671 W GRADE 500 HARD DRAWN WIRE TO AS4671
 - SL GRADE 500 HARD DRAWN WIRE SQUARE REINFORCING MESH, DUCTILITY CLASS L TO AS4761. THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMFTER IN MILLIMETRES. REINFORCEMENT IS SHOWN

ALL CONCRETE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS2870 &

DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION REINFORCEMENT LAPS AND COGS ARE TO BE AS FOLLOWS (U.N.O.);

MIN. LAP

		•••			
SQUARE	=	1 MESH SQUARE + 25mm			
RECTANGU	LAR	225mm EN	DS, 125mm SIDES		
	N	IIN. BAR LAP	S	MIN	BAR COGS
BAR SIZE:	GEN	IERAL LAP:	TOP OF BEAM LAP:	BAR SIZE:	MIN. COG:
N12		500	650	N12	200
N16		750	900	N16	200
N20		900	1200	N20	250

- N36 2000 2500 N36
- REINFORCEMENT CRANKS ARE TO BE NO GREATER THAN 1 IN 6. DO NOT WELD OR SITE BEND REINFORCEMENT UNLESS SHOWN ON THE DRAWINGS

1800

2100

N24

N28

N32

300

350

400

500

- OR OTHERWISE APPROVED BY THE DESIGN ENGINEER. REINFORCEMENT SHALL BE SUPPORTED ON APPROVED BAR CHAIRS, SPACERS OF SUPPORT BARS AT 800 MAX. CRS EACH WAY FOR MESH AND 60 TIMES THE SMALLER
- SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE APPLIED FINISHES. BEAM DEPTHS
- INCLUDE SLAB THICKNESS. PROVIDE DAMP PROOF MEMBRANE (0.2mm THICK APPROVED POLYTHENE MEMBRANE) TO UNDERSIDE OF SLABS ON GROUND IN ACCORDANCE WITH BCA F1.10. MEMBRANE LAPS SHALL BE 300mm MIN. AND TAPED WITH MIN. 50mm WIDE
- FORM CONSTRUCTION JOINTS IN CONCRETE ELEMENTS ONLY WHERE SHOWN ON THE DRAWINGS OR AS OTHERWISE APPROVED BY THE DESIGN ENGINEER. ALL CONCRETE INTERFACES TO CONSTRUCTION JOINT SHALL BE SCABBLED, CLEANED AND COATED WITH A CEMENT SLURRY IMMEDIATELY, PRIOR TO POURING CONCRETE. ALL CONCRETE SHALL BE COMPACTED USING MECHANICAL VIBRATORS.
- NO HOLES. CHASES OR EMBEDDED ITEMS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE FLEMENTS WITHOUT PRIOR
- APPROVAL OF THE DESIGN ENGINEER. CURING OF CONCRETE SHALL COMMENCE A MIN. OF 2 HOURS AFTER CONCRETING IS
- FINISHED. CURING METHOD SHALL BE APPROVED BY THE DESIGN ENGINEER. FORMWORK SHALL COMPLY WITH AS 3610 AND RELEVANT CONSTRUCTION SAFETY
- CODES. STRIPPING TIMES SHALL BE IN ACCORDANCE WITH TABLE 5.4.1 AND SHALL BE APPROVED BY THE DESIGN ENGINEER BEFORE PROCEEDING WITH THE WORK.
- FINISHES TO UNFORMED SURFACES SHALL BE STEEL TROWELLED FINISH U.N.O. FOR POLISHED CONC. FLOOR SLAB FINISHES, GRADE N32 CONC. AND SL92 SLAB

CONCRETE CHARACTERISTICS

	STANDARD	PORTLAND	MAX. NOM.	MAY CLUMD	REINF. COVER
	GRADE	CEMENT	AGG. SIZE	MAX. SLUMP	(U.N.O.)
MASS CONC.	N15	TYPE A	20mm	80mm	-
STRIP FOOTINGS, PADS & PIERS	N25	TYPE A	20mm	80mm	50mm
LIFT SLAB BASE & WALLS	N25	TYPE A	20mm	80mm	30mm
BLOCKWORK COREFILL	N15	TYPE A	10mm	200mm	25mm
SLABS ON GRADE	N32	TYPE A	20mm	80mm	30mm
SUSPENDED SLABS (INTERNAL)	N32	TYPE A	20mm	80mm	20mm
SUSPENDED SLABS (EXTERNAL)	N32	TYPE A	20mm	80mm	40mm
STAIRS AND LANDINGS	N32	TYPE A	20mm	80mm	20mm
FORMED CONC. WALLS	N32	TYPE A	20mm	80mm	40mm
CONC. COLUMNS	N40	TYPE A	20mm	80mm	30mm
PRECAST PANELS	N40	TYPE A	20mm	80mm	30mm (INT.) 40mm (EXT.)

					\\\\.06 Documentation Libraries\03 AutoCAD\Logos\Collective Consulting\CC_A1 Border Logo Box 180x21.5.png	STAR OF THE SEA Preston		PROJECT DETAIL STAR OF TH REDEVELOP	E SEA	DRAWING TITLE: STRUCTURAL NOTES - SHEET 1				
	C REVIEW / INFORMATION	JMW	24-06-24	1					2-6 WILLIAN	A STREET, GEORGE TOWN				
	B REVIEW / INFORMATION	JMW	03-04-24	COLLECTIVE	THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWATER AND ANY OTHER REQUIRED AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.					TOTALLI, GLORIGE TOTAL				
L	A REVIEW / INFORMATION	JMW	06-03-24		3. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
F	EV: ISSUED FOR / DESCRIPTION:	BY:	DATE:	DISCLAIMER:	4. INFORMATION FROM THE WITHIN THIS DOCUMENT THAS DEED FROM THE OFFICE LIVE CONSOLITING STEENING OF ENGAGEMENT, OF ACCEPTING ON USING THE INFORMATION	AJL	-	JMW	-			231093	S001	С

STRUCTURAL STEELWORK

1. GENERAL

A. FABRICATE AND ERECT ALL STEELWORK IN ACCORDANCE WITH AS4100, AS1538, AS4600 AND THE SPEC.

ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554.1-1991. FILLET WELDS SHALL BE CATEGORY GP U.N.O. FULL PENETRATION BUTT WELDS SHALL BE CATEGORY SP U.N.O. E48XX ELECTRODES - TYPICAL

C. ALL CUT STEEL EDGES TO BE GROUND TO A RADIUS OF 2mm. DEFECTS SUCH AS PIN HOLES, BLOW HOLES, HAMMER MARKS ETC. SHALL BE RECTIFIED TO THE SATISFACTION OF THE ENGINEER PRIOR TO GALVANISING OR PAINTING.

D. DO NOT MAKE PENETRATIONS OR CUTOUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER.

SURFACE PREP. PRIOR TO COATING SHALL BE ABRASIVE BLAST CLEANING TO

AS1627.4 CLASS 2.5 U.N.O. UNLESS NOTED OTHERWISE;

- ALL CLEAT, GUSSET, END, FIN AND STIFFENER PLATES SHALL BE 10mm THICK TO AS3679-1900.

- ALL BOLTS ARE TO BE M20 8.8/S TO AS1252-1983. - MINIMUM CONNECTION TO BE 2-M20 8.8/S BOLTS.

- BOLT HOLE CLEARANCE 2mm TYPICAL.

- WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS TO AS1554 PART 1-1991 WELDS FULL PERIMETER OF CONTACT. - ALL BOLTS NUTS AND WASHERS SHALL BE GALVANISED TO AS1214-1983

- MORTAR WHERE REQUIRED: A MIN. OF 25mm NON SHRINK GROUT, 40 MPa. - MASONRY ANCHORS TO BE HILTI HVU OR APPROVED EQUIVALENT (MIN. SIZE TO BE M16) INSTALLED INTO COREFILLED MASONRY OR CONCRETE.

G. BOLTS SHALL BE PROVIDED WITH THREADS EXCLUDED FROM THE SHEAR PLANE. PROVIDE A HARDENED WASHER UNDER ALL NUTS. WHERE TENSIONED USE LOAD INDICATING WASHERS AND TENSION TO AS1252.

2. CORROSION PROTECTION

A. SHOP APPLIED PAINTING - ALL STEELWORK U.N.O.;

- REMOVE ALL ARRISSES.

- ABRASIVE BLAST CLEAN SURFACES TO COMPLY WITH AS1627.4, CLASS 2.5. - APPLY ONE COAT OF INORGANIC ZINC SILICATE TYPE 4 PAINT COMPLYING WITH AS2105 - 75 MICRON DRY FILM THICKNESS - WITHIN 4 HOURS OF CLEANING. B. GALVANISING SHALL BE HOT DIPPED IN ACCORDANCE WITH AS1650:

- REMOVE ALL ARRISSES.

- PROVIDE DRAIN HOLES AND VENTS IN CLOSED SECTIONS. MINIMUM COATING THICKNESS 500 GSM.

C. FIELD TOUCH UP;

C1. SHOP APPLIED COATINGS:

THOROUGHLY DEGREASE DAMAGED AREA USING SOLVENT IN ACCORDANCE 1. GENERAL WITH AS1627.1. RINSE THOROUGHLY WITH CLEAN WATER AND LIGHTLY ABRADE. - APPLY ONE COAT OF INTERZINC 72 - 75 MICRON DRY FILM THICKNESS. C2. GALVANISED SURFACES:

- THOROUGHLY DEGREASE DAMAGED AREA USING SOLVENT IN ACCORDANCE WITH AS1627.1. RINSE THOROUGHLY WITH CLEAN WATER AND LIGHTLY ABRADE. - APPLY ONE COAT OF INTERZINC 352 - 50 MICRON DRY FILM THICKNESS.

D. TOP COAT - OPTIONAL D1. PAINTED SURFACES:

- APPLY TWO COATS INTERLAC 665 ALKYD GLOSS ENAMEL AT 35 MICRONS DRY FILM THICKNESS EACH COAT.

- COLOUR TO SUPERINTENDENT

D2. GALVANISED SURFACE: - ETCH PRIME

- APPLY TWO COATS INTERLAC 665 ALKYD GLOSS ENAMEL AT 35 MICRONS DRY FILM THICKNESS EACH COAT - COLOUR TO SUPERINTENDENT

CONCRETE ENCASE ALL STEELWORK BELOW GROUND WITH A MIN. 75mm COVER TO ALL SURFACES. WRAP ENCASED MEMBERS WITH GGW41 - MIN. 35mm COVER U.N.O.

ALL HOLDING DOWN BOLTS, NUTS, WASHERS AND ALL FIXINGS TO BE CAST INTO CONCRETE SHALL BE HOT DIPPED GALVANISED. ALL HOLDING DOWN BOLTS SHALL BE HOT DIPPED GALVANISED.

3. BOLT NOTATION

4.6/S - COMMERCIAL GRADE 4.6 BOLTS, SNUG TIGHTENED

8.8/S - HIGH STRENGTH GRADE 8.8 BOLTS, SNUG TIGHTENED

8.8/TF - HIGH STRENGTH GRADE 8.8 BOLTS, TENSIONED, FRICTION CONNECTION

8.8/TB - HIGH STRENGTH GRADE 8.8 BOLTS, TENSIONED CONNECTION ROD COUPLERS - CLASS S TO AS1111

ROD TURNBUCKLES - CLASS L TO AS2319

4. STEELWORK WELDING

ALL WELDS ARE TO BE 6mm CONTINUOUS FILLET WELDS (CFW) U.N.O.

5. STEELWORK FIXING

ALL BOLTS TO BE GALVANISED.

ALL BOLTS TO BE GRADE 8.8/S U.N.O.

ALL BOLT HOLES TO BE NO GREATER THAN BOLT DIAMETER + 2mm U.N.O.

ALL CONNECTION PLATES ARE TO BE 10mm THICK U.N.O.

ALL SITE WELDS TO HAVE APPROPRIATE SURFACE FINISH TOUCHED UP IMMEDIATELY.

PURLINS & GIRTS

1. GENERAL

INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

FABRICATION & ERECTION OF ALL PURLINS & GIRTS TO BE IN ACCORDANCE WITH AS4600-1996 COLD FORMED STEEL STRUCTURES.

- FABRICATION & ERECTION OF ALL PURLINS & GIRTS TO BE IN ACCORDANCE WITH AS4600-1996 COLD FORMED STEEL STRUCTURES.

- ALL BOLTS, NUTS & WASHERS SHALL BE; BOI T SPECIFICATION: NOMINAL SECTION SIZE (mm): M12 LYSAGHT PURLIN BOLT 100, 150, 200, 250, FP3019 M16 LYSAGHT PURLIN BOLT 300, 350

- ALL BOLTS TO BE TORQUED TO 55Nm U.N.O. BRIDGING & SAG RODS:

- IF NO BRIDGING OR SAG RODS SHOWN ON DRAWINGS, CONTRACTOR TO ALLOW FOR MINIMUM NUMBER OF BRIDGING & SAG RODS AS FOLLOWS:

SPAN (mm): No. ROWS BRIDGING / SAG RODS (MIN.): 0-3000 NOT REQUIRED 3000-5000 5000-7000

7000-10000 CORROSION PROTECTION

- ALL ZED & CEES TO HAVE A ZINC COATING OF Z350 (350 g/m² MINIMUM COATING MASS) FOR GENERAL AREA USE, i.e. ENCLOSED BUILDINGS AND OPEN SIDED RURAL BUILDING IN NON-AGRESSIVE ENVIRONMENTS. - ALL ZED & CESS TO HAVE A ZINC COATING OF Z450 (450 g/m2 MINIMUM

COATING MASS) FOR AGGRESSIVE ENVIRONMENTS i.e. HEAVY INDUSTRIAL SITES, SITES LESS THAN 1000m TO THE COAST WATER LINE.

MATERIAL SPECIFICATIONS:

- ZED & CEES TO BE ROLL FORMED FROM GALVASPAN (OR EQUIVALENT) STEEL IN ACCORDANCE WITH AS1397-1993.

ALL MILMDLING TO A IN	ALL MEMBERIO TO A MINIMOM OTABLE OF,									
BMT (mm):	YIELD STRESS (MPa):	COATING MAS								
1.0	G550	AZ150 or Z350								
1.2	G500	Z350								
1.5, 1.9, 2.4, 3.0	G450	Z350								

STRUCTURAL STEELWORK COATING

COATING SYSTEM IN ACCORDANCE WITH THE STRUCTURAL STEELWORK SECTION, TIMBER THE FOLLOWING STEELWORK COATINGS MUST BE APPLIED; INTERNAL LINEXPOSED STEEL:

- PRIME COAT AS PER STRUCTURAL STEELWORK SECTION 2. EXTERNAL EXPOSED STEEL:

- GALVANISE COAT AS PER STRUCTURAL STEELWORK SECTION 2. PAINT FINISH;

- REFER ARCHITECT SPECIFICATION FOR PAINT SYSTEM. AS A MINIMUM ALLOW FOR SYSTEM SPECIFIED IN STRUCTURAL STEELWORK SECTION.

STRUCTURAL STEELWORK LINTELS

GENERAL

REFER STEEL LINTEL SCHEDULE FOR STANDARD LINTEL SIZES.

STANDARD LINTEL SIZES APPLY ONLY TO NON LOAD BEARING MASONRY WALLS. ALL OTHER LINTELS ARE SHOWN ON THE DRAWINGS. IF NONE ARE SHOWN, REFER THIS MATTER TO THE ENGINEER

INSTALL ONE LINTEL TO EACH WALL LEAF

MORTAR IS TO BE PACKED AND RAMMED BETWEEN THE VERTICAL LEG OF THE ANGLE AND SUPPORTED MASONRY WALL.

DURING CONSTRUCTION, PROP LINTELS AS REQUIRED TO AVOID EXCESSIVE DEFLECTION OR ROTATION. REMOVE PROPS AFTER MASONRY REACHES ITS SPECIFIED STRENGTH. MIN. PERIOD FOR PROPPING IS 7 DAYS. EXPOSED LINTELS ARE TO BE HOT DIPPED GALV

DURAGAL LINTELS OF EQUIVALENT SIZES ARE AN ACCEPTABLE ALTERNATIVE.

SHOP DRAWINGS

1. GENERAL

A. ALL PURLINS & GIRTS TO BE LYSAGHT ZEDS & CEES SYSTEM OR EQUIVALENT, A. SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORM TO THE CONSULTING

ENGINEER FOR APPROVAL. NO FABRICATION SHALL BE COMMENCED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED IN WRITING BY THE CONSULTING ENGINEER AND ALTERATIONS MADE.

THE CONTRACTOR SHALL ALLOW A PERIOD OF 2 WEEKS FOR THE EXAMINATION AND APPROVAL OF SHOP DRAWINGS.

COLLECTIVE CONSULTING DOES NOT ACCEPT RESPONSIBILITY FOR DIMENSIONS AND QUANTITIES. THE CONTRACTOR RETAINS RESPONSIBILITY FOR ERRORS AND COMPLETING THE WORKS IN ACCORDANCE WITH THE CONTRACT.

NO SUBSTITUTIONS FOR PRODUCTS OR MATERIALS ARE TO BE MADE WITHOUT PRIOR CONSENT FROM THE ENGINEER.

SHOULD ANY APPROVED ALTERATION OR VARIATION BE MADE TO THE SPECIFIED SIZES, THE CONTRACTOR SHALL SUBMIT A PRICED STATEMENT OF THE EXTRAS AND / OR DEDUCTIONS TO THE CONTRACT PRICE INVOLVED IN THE VARIATIONS BEFORE FABRICATION COMMENCES.

COLLECTIVE CONSULTING DOES NOT ACCEPT ANY RESPONSIBILITY FOR ANY ADDITIONAL COSTS INCURRED DUE TO FABRICATION COMMENCING BEFORE ALL SHOP DRAWINGS HAVE BEEN APPROVED. THIS IS CONTRACTOR STAGING RISK TO

2. STEELWORK

THE STEEL DETAILER IS TO PROVIDE A COMPLETED 3D MODEL FOR APPROVAL OF THE DESIGN INTENT TO THE ARCHITECT AND ENGINEER PRIOR TO COMMENCEMENT OF SHOP DRAWINGS AND FABRICATION.

THE 3D MODEL IS TO INCLUDE ALL TIMBER. CONCRETE AND STEELWORK FRAMING ELEMENTS OF THE NEW BUILDING AS WELL AS EXISTING BUILDINGS BEING ALTERED. DESIGN INPUT FROM ARCHITECT AND ENGINEER IS TO BE EXPECTED DURING THE

STEEL DETAILING PROCESS. COLLECTIVE CONSULTING ACCEPT NO LIABILITY FOR ERRORS OR OMISSIONS

RELATING TO COORDINATION OF THE 3D MODEL WITH THE ARCHITECTURAL AND ENGINEERING DOCUMENTATION AND THE EXISTING BUILDING STRUCTURE.

3. PRECAST CONCRETE

SHOP DRAWINGS SHALL CLEARLY SHOW ALL SIZES, DIMENSIONS, LOCATION AND DETAILS OF INSERTS / ANCHORS / CAST-IN PLATES, GROOVES, REBATES, CHAMFERS, PENETRATIONS, BLOCKOUTS, ETC.

SHOP DRAWINGS SHALL CLEARLY SHOW CONCRETE STRENGTHS AND REINFORCEMENT SPECIFICATIONS.

PRIOR TO POUR, CONTRACTOR IS TO INFORM ENGINEER WHEN PANEL IS READY TO ORGANISE INSPECTIONS AT THE DISCRETION OF THE ENGINEER.

A. THE QUALITY OF ALL TIMBER MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITIONS, (INCLUDING AMENDMENTS) OF THE FOLLOWING S.A.A. CODES EXCEPT WHERE CARRIED OUT BY THE SPEC:

AS1720: TIMBER STRUCTURES CODE

AS1684: RESIDENTIAL TIMBER STRUCTURES

AS/NZS1604: TIMBER - PRESERVATIVE TREATED

TIMBER GRADE TO BE AS SHOWN WITH DURABILITY SUITED TO LOCATION. ALL EXTERIOR ABOVE GROUND TIMBER AND LVL TO BE PRESERVATIVE TREATED TO CLASS H3 OR SEASONED DURABILITY CLASS 2 HARDWOOD. FOR TIMBER EXPOSED TO

VIEW. REFER ARCHITECTURAL DRAWINGS FOR TIMBER SPECIES AND FINISH. TIE DOWN ALL ROOF FRAMING IN ACCORDANCE WITH AS1684, REFER 'WALL FRAMING

TIE DOWN SCHEDULE' AND 'ROOF FRAMING TIE DOWN SCHEDULE' ON DRAWINGS.

FRAMING TO BE IN ACCORDANCE WITH AS1684.

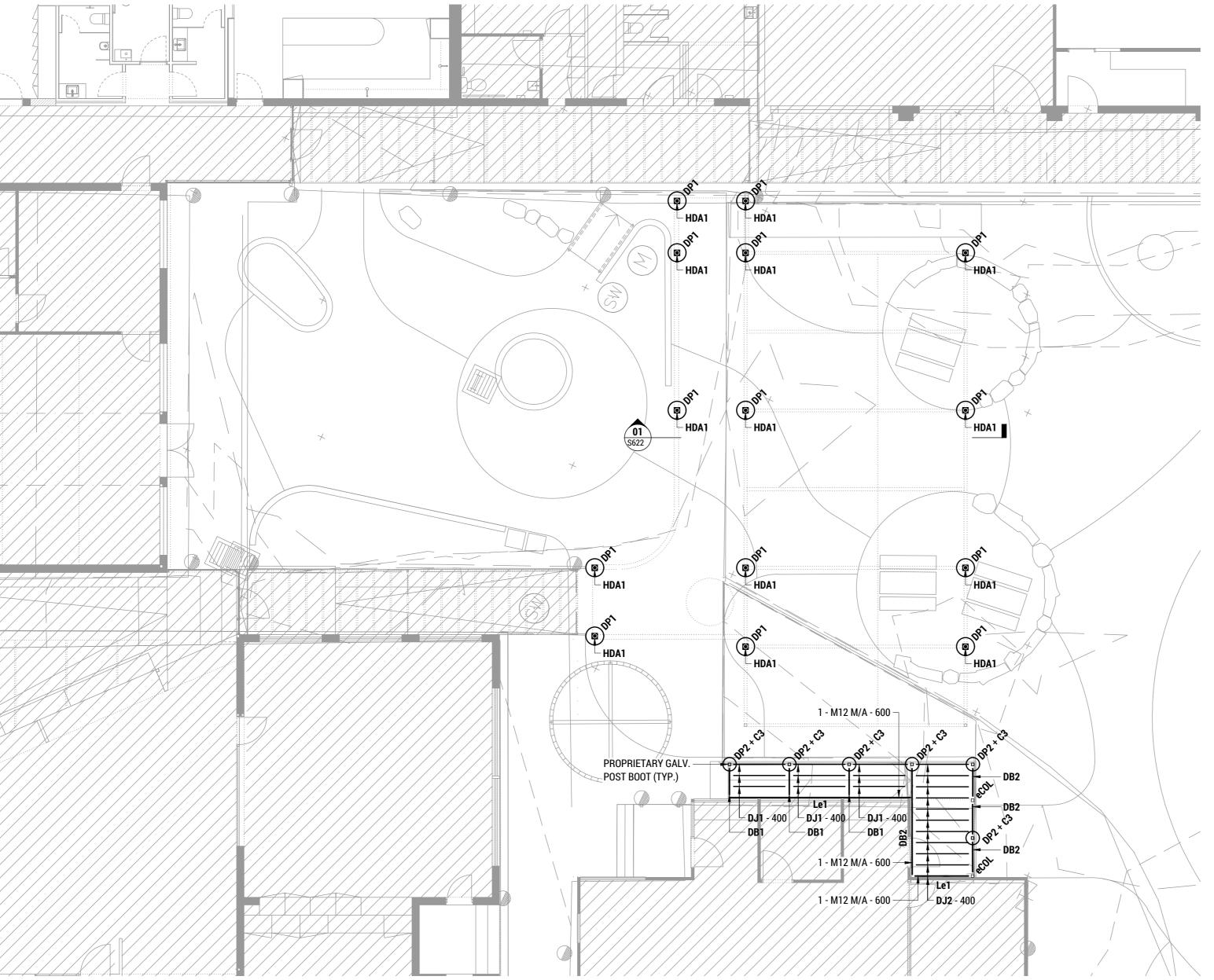
F.	UNLESS NOTED OTHERWISE, TIMBER STODS ARE TO BE:									
	COLORBO	ND ROOF SHEETING			TILE ROOF					
	STUD LENGTH:	STUD SIZE AND TYPE:		STUD LENGTH:	STUD SIZE AND TYPE:					
	0 - 2700	90 x 35 MGP10 -450		0 - 2400	90 x 35 MGP10 -450					
	2701 - 3000	90 x 45 MGP10 -450		2401 - 2700	90 x 45 MGP10 -450					
	3001 - 3600	2/90 x 35 MGP10 -450		2701 - 3000	2/90 x 35 MGP10 -450					
	3001 3000	or 140 x 45 MGP12 -450		2101 3000	or 140 x 45 MGP12 -450					
	3601 - 4200	140 x 45 MGP12 -450		3001 - 3600	140 x 45 MGP12 -450					
_	C LINESCONOTED OTHERWISE TIMBER DI ATEC ARE TO BE									

G	. UNLESS NUTED OT	UNLESS NOTED OTHERWISE, TIMBER PLATES ARE TO BE:									
	GROUND FLOOR /	SINGLE STORY		FIRST FLOOR AND GREATER							
	PLATE:	STUD SIZE & TYPE:		PLATE:	STUD SIZE & TYPE:						
	BOTTOM PLATE	90 x 35 MGP10		BOTTOM PLATE	90 x 35 MGP10						
	TOP PLATE	2/90 x 35 MGP10	0/00 2F MOD10	TOP PLATE	2/90 x 35 MGP10						
	(LOAD BEARING)	2/90 X 33 WIGF 10	П	(LOAD BEARING)	2/90 X 33 MIGF 10						
	TOP PLATE	90 x 35 MGP10		TOP PLATE	90 x 35 MGP10						
	(NON-LOAD BEARING)	90 X 33 MIGF 10	П	(NON-LOAD BEARING)	90 X 33 WIGE 10						

SHEET ROOF: 70 x 35 F17 HW BATTENS -900, AT 90° TO PRIMARY STRUCTURE. TILED ROOF: 70 x 35 F17 HW BATTENS -450, AT 90° TO PRIMARY STRUCTURE.

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С	REVIEW / INFORMATION	JMW	24-06-24] `			
В	REVIEW / INFORMATION	JMW	03-04-24	COLLECTIVE	THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. A THIS DRAWING MICE OF ADDROVED BY COUNTY TANKED AND ANY OTHER DESCRIPTION OF ADDROVED BY COUNTY OF THE PURPOSE. THE SERVICE OF THE PROJECT OF THE PURPOSE OF THE PURPOSE OF THE PURPOSE.	1			
Α	REVIEW / INFORMATION	JMW	06-03-24		 THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWATER AND ANY OTHER REQUIRED AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE. 	Г			
REV:	ISSUED FOR / DESCRIPTION:	BY:	DATE:	DISCLAIMER:	 INFORMATION PROVIDED WITHIN THIS DOCUMENT HAS BEEN PROVIDED UNDER COLLECTIVE CONSULTING'S TERMS OF ENGAGEMENT. BY ACCEPTING OR USING THE INFORMATION WITHIN THIS DOCUMENT YOU HAVE ACCEPTED THE TERMS OF ENGAGEMENT. TERMS CAN BE VIEWED AT: www.collectiveconsulting.com/au/termsofengagement. DO NOT SCALE DRAWINGS. COLLECTIVE CONSULTING IS NOT RESPONSIBLE FOR THE DIMENSIONING AND SETTING OUT OF COMPONENTS WITHIN THESE PROJECT DOCUMENTS. 	1			

CLIENT / ARCHITECT: STAR OF THE SEA COLLEGE		Preston Lane	PROJECT DETAIL STAR OF THE REDEVELOP 2-6 WILLIAM	E SEA	DRAWING TITLE	AL NOTES - SI	HEET 2		
N	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ <u>A2</u> :	PROJECT No: 231093	DRAWING No: S002	REVISION:



	FOUNDATION MAT	TERIAL SCHEDULE
	FOUNDATION MATERIAL	NATURAL CLAY
	DEPTH BELOW SURFACE	400mm
	ALLOWABLE BEARING PRESSURE	100kPa
	APPROVED BY	COLLECTIVE CONSULTING
	SOIL REPORT REFERENCE NO.	
_	MASS CONC. TO U/S OF FOOTING	50mm MIN.
_	SOIL CLASSIFICATION	H1 (FOR DESIGN)

	FOOTING SCHEDULE										
MARK	LENGTH 'L'	WIDTH 'W'	DEPTH 'D'	REINF. BTM	REINF. TOP	LIGS / CLIPS					
DP1	-	Ø600	1200 MIN.	-	1-N12 CENTRAL	-					
DP2	-	Ø450	600 MIN.	-	1-N12 CENTRAL	-					

	HOLDING DOWN ANCHOR SCHEDULE									
MARK	BOLTS	LENGTH 'L'	ANCHOR	LIGS						
HDA1	4-M20 GALV.	600	50sq x 10 PL	R10 -150						

FOOTING PLAN NOTES:

- 1. ALL FOOTINGS ARE TO BE FOUNDED ON UNIFORM FOUNDING MATERIAL.
- 2. REFER STRUCTURAL NOTES ON DRAWING S001 FOR BAR LAPS & COGS.
- 3. REFER TYPICAL DETAILS FOR PIPE PENETRATIONS THROUGH FOOTINGS.

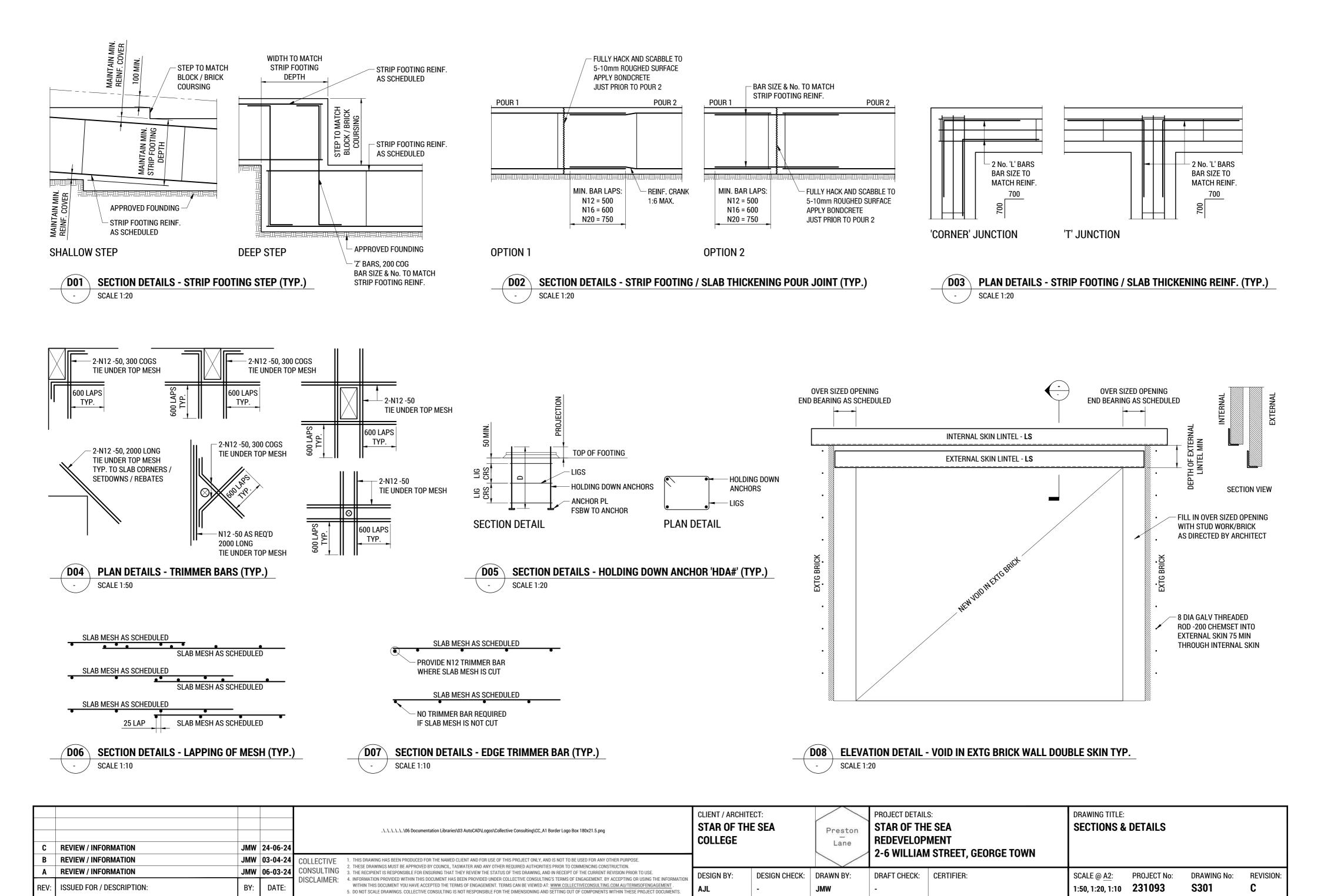
SITE WORKS NOTES:

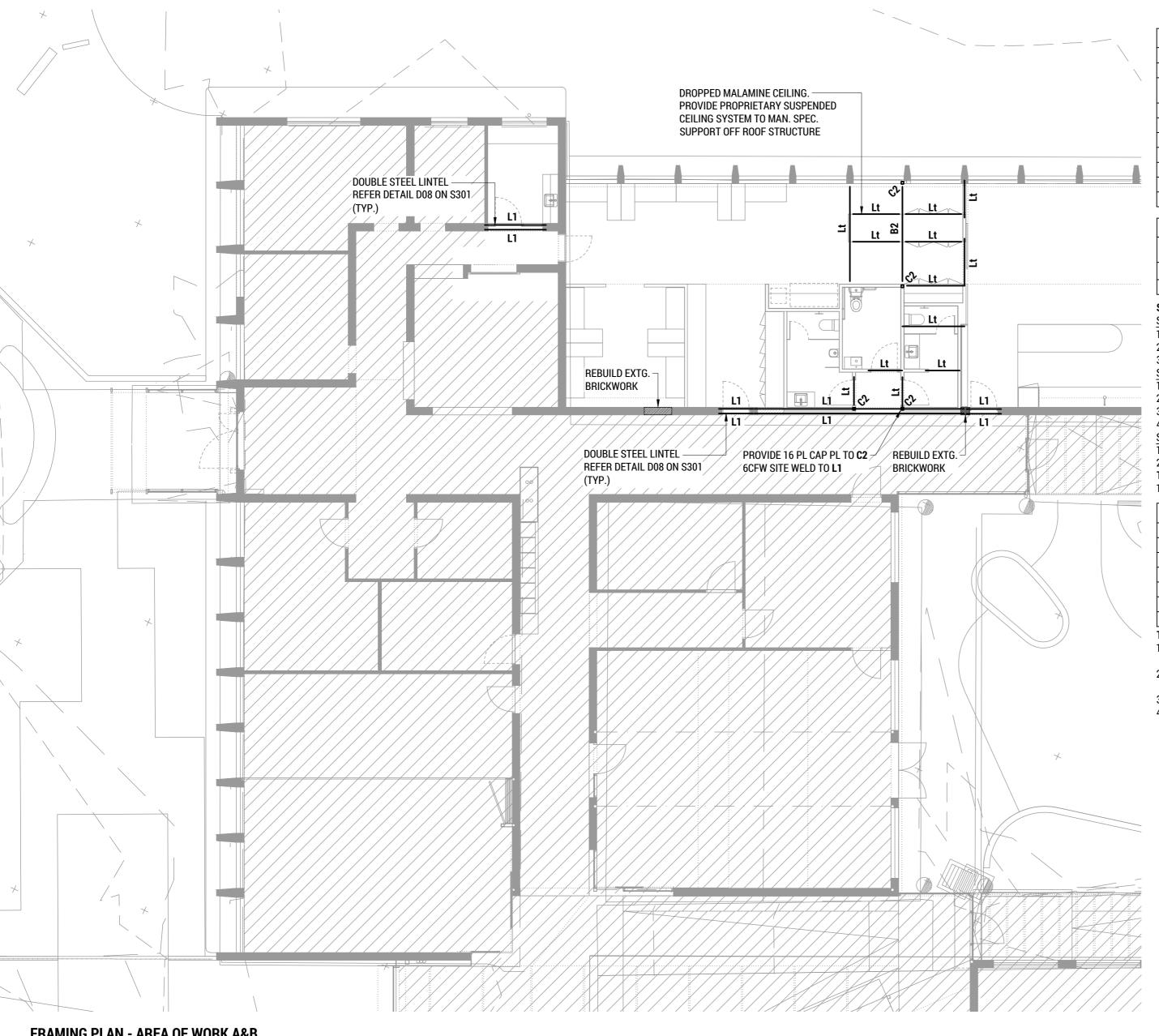
- 1. DISCHARGE OF WATER ONTO GROUND SURFACE IS NOT PERMITTED.
- SHOULD ANY SEEPAGE OR GROUNDWATER BE ENCOUNTERED ON SITE, IN FOOTING EXCAVATIONS OR SERVICE TRENCHES, IT IS RECOMMENDED THAT SUBSOIL DRAINS BE INSTALLED AND DISCHARGED TO THE STORMWATER DRAINAGE SYSTEM.
- 3. ANY SURFACE WATER RUNOFF FROM PAVED SURFACES SUCH AS DRIVEWAYS ETC. SHOULD BE COLLECTED AND DISCHARGED TO THE STORMWATER DRAINAGE SYSTEM.
- 4. CUTS & FILLS ON SITE SHOULD BE MINIMISED AND LIMITED TO LESS THAN 1.5m IN HEIGHT AND BATTERED AT AN ANGLE NO STEEPER THAN 1 VERT. TO 3 HOZ (1V:3H), OTHERWISE RETAIN WITH A WALL.
- 5. PROTECT ALL BATTER FACES WITH VEGETATION OR EROSION MATS.
- 6. MAINTAIN VEGETATION ON HILLS WHERE POSSIBLE.
- 7. INSTALL SURFACE WATER CUTOFF DRAINS AT CREST OF CUT / FILL BATTERS AND RETAINING WALLS AND DISCHARGE TO THE STORMWATER DRAINAGE SYSTEM.
- 8. THESE DRAWINGS SHOULD BE READ IN CONJUCTION WITH RECOMMENDATIONS PROVIDED IN GEOTECH REPORT.

	FL	OOR FRAMING SCHEDULE	
MARK	DESCRIPTION	LH / BTM CONNECTION / GENERAL (U.N.O.)	RH / TOP CONNECTION (U.N.O.)
C3	90 x 90 F7 T.P.	GALV. POST BOOT, 2-M12 M/A TO FOOTING 2-M12 GALV. COACH BOLTS TO C3	NOTCH DB1 OR DB2 INTO C3, 2-M12 GALV. COACH BOLTS
DB1	90 x 45 F7 T.P.	NOTCH DB1 INTO C3, 2-M12 GALV. COACH BOLTS	-
DB2	140 x 45 F7 T.P.	NOTCH DB2 INTO C3, 2-M12 GALV. COACH BOLTS	-
DJ1	90 x 45 F7 T.P.	REFER SECTIONS & DETAILS ON DRAWING S621	-
DJ2	140 x 45 F7 T.P.	REFER SECTIONS & DETAILS ON DRAWING S621	-
Le1	90 x 45 F7 T.P.	1-M12 M/A -600	-

FOOTING PLAN

С	•	_	24-06-24		STAR OF TH COLLEGE		Preston Lane		DRAWING TITLE FOOTING P	AN & FLOOR	FRAMING PLA	AN
B	REVIEW / INFORMATION	JMW	03-04-24	COLLECTIVE 1. THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. 2. THESE DRAWINGS MUST BE APPROVED BY COUNCIL TASWATER AND ANY OTHER REQUIRED AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.				·				
Α	REVIEW / INFORMATION	JMW		CONSULTING 3. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK: CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
REV:	ISSUED FOR / DESCRIPTION:	BY:	DATE:	DISCLAIMER: 4. INFORMATION PROVIDED WITHIN THIS DOCUMENT HAS BEEN PROVIDED UNDER COLLECTIVE CONSULTING'S TERMS OF ENGAGEMENT. BY ACCEPTING OR USING THE INFORMATION WITHIN THIS DOCUMENT YOU HAVE ACCEPTED THE TERMS OF ENGAGEMENT. TERMS CAN BE VIEWED AT: www.collectiveconsulting.com.au/termsofengagement . 5. DO NOT SCALE DRAWINGS. COLLECTIVE CONSULTING IS NOT RESPONSIBLE FOR THE DIMENSIONING AND SETTING OUT OF COMPONENTS WITHIN THESE PROJECT DOCUMENTS.	AJL	-	JMW	-	1:100	231093	S101	С





		FRAMING SCHEDULE	
MARK	DESCRIPTION	LH / BTM CONNECTION / GENERAL (U.N.O.)	RH / TOP CONNECTION (U.N.O.)
C1	139 x 5 CHS	6 CFW TO HDA1, COLD GALV TOUCH UP	REFER DETAIL
C2	89 x 5 SHS	10 BASE PL, 4 - M16 x 200 LONG CHEMSET ANCHORS	10 PL, 2 - M20 T0 B2 / L1
B1	200 x 100 x 5 RHS	6 CFW SITE WELD TO C1 , COLD GALV TOUCH UP	REFER DETAIL
B2	2 / 240 x 45 LVL	REFER DETAIL	REFER DETAIL
L1	100 x 10 EA	REFER DETAIL	REFER DETAIL
P1	75 x 50 x 3 RHS	6 PL CLEAT, 2 - M10	-
P2	100 x 50 x 3 RHS	6 PL CLEAT, 2 - M10	-
RB1	150 x 100 x 5 RHS	10 PL CLEAT, 2 - M20	REFER DETAIL
G1	100 x 50 x 3 RHS	6 PL CLEAT, 1 - M10	-

	STEEL TRUSS SCHEDULE						
MARK	TOP CHORD	BOTTOM CHORD	VERTICAL MEMBERS	DIAGONAL MEMBERS	TRUSS DEPTH		
Tr1	150 x 100 x 5 RHS	200 x 100 x 5 RHS	100 x 100 x 5 RHS	-	REFER DETAIL		
Tr2	150 x 100 x 5 RHS	200 x 100 x 5 RHS	100 x 100 x 5 RHS	-	REFER DETAIL		

STEELWORK FRAMING NOTES:

STEELWORK WELDING

- 1. ALL WELDS ARE TO BE 6mm CONTINUOUS FILLET WELDS (CFW) U.N.O.
- 2. ALL SITE WELDS ARE TO HAVE THE APPROPRIATE SURFACE FINISH TOUCHED UP IMMEDIATELY.
- 3. TOUCH UP SITE WELDS WITH COLD GALV. STICK.

STEELWORK FIXING

- 1. ALL BOLTS ARE TO BE GALV. U.N.O.
- 2. ALL BOLTS ARE TO BE GRADE 8.8/S U.N.O.
- 3. BOLT HOLES ARE TO BE NO GREATER THAN THE BOLT DIA. + 2mm U.N.O.
- 4. UNLESS NOTED OTHERWISE, ALL CONNECTION PLATES ARE TO BE 10mm THICK.

- 1. INTERNAL STEELWORK PRIME AND PAINT AS PER STRUCTURAL NOTES ON DRAWING S002.
- 2. EXTERNAL STEELWORK GALV. AS PER STRUCTURAL NOTES ON DRAWING S002. **TIMBER ROOF FRAMING NOTES:**
- 1. ROOF BRACING TO TRUSS MAN. SPEC.

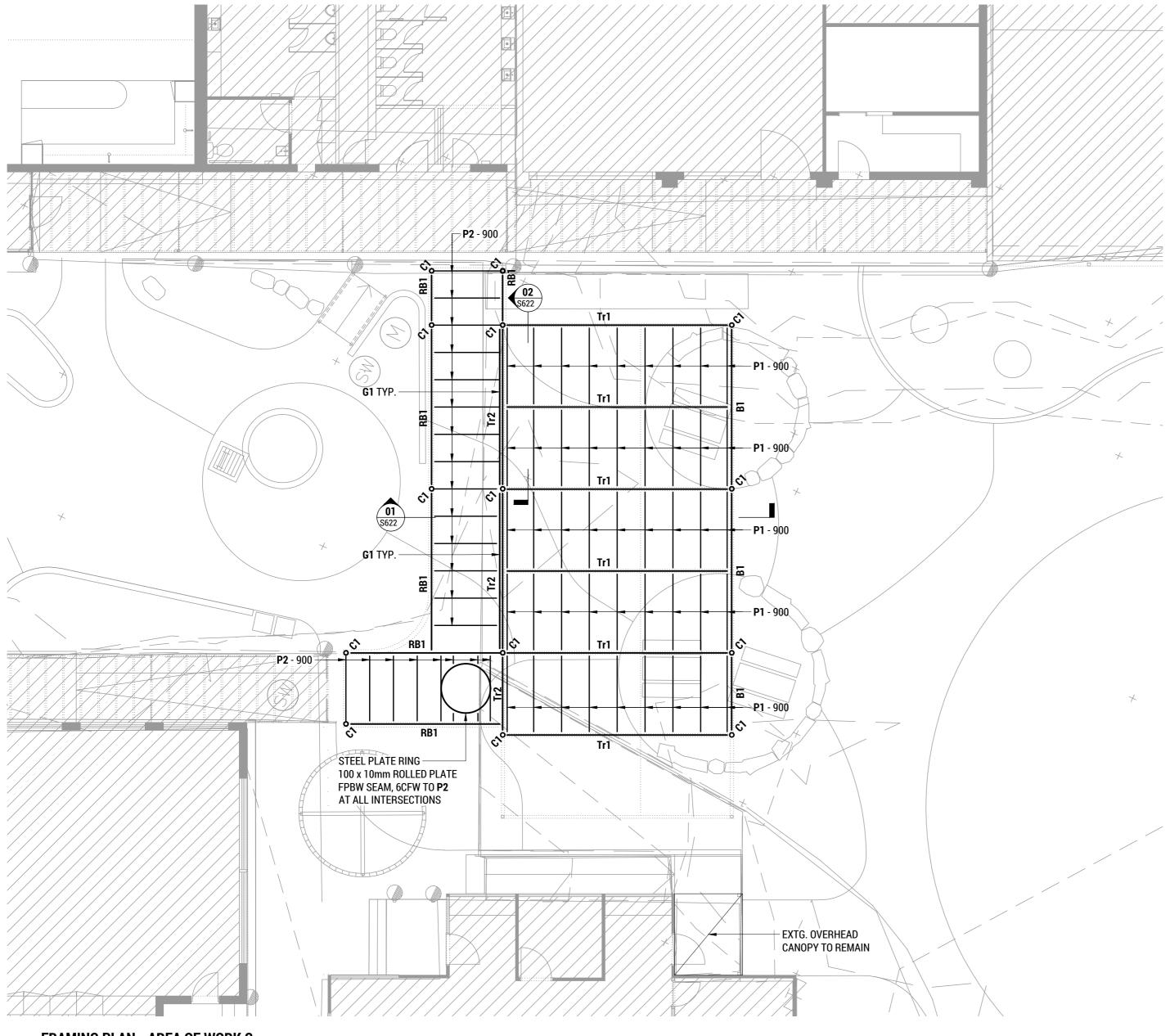
TII	TIMBER LINTEL 'Lt' SCHEDULE (IRON ROOF)						
SPAN ≤	MEMBER						
1200	90 x 63 LVL13 or 2/90 x 35 F17 HW						
1500	130 x 45 LVL13 or 140 x 45 F17 HW						
1800	170 x 45 LVL13 or 170 x 45 F17 HW						
2400	200 x 45 LVL13 or 190 x 45 F17 HW						
3000	240 x 45 LVL14 or 240 x 45 F17 HW						
4000	2/290 x 45 LVL14 or 2/290 x 45 F17 HW						

TIMBER LINTEL NOTES:

- 1. PROVIDE DOUBLE STUDS EACH SIDE OF WINDOWS AND EACH END OF TIMBER LINTELS / TIMBER BEAMS, TYP.
- 2. TRUSS MANUFACTURER TO VERIFY LINTEL DESIGN SUPPORTS ROOF TRUSS DISTRIBUTED & POINT LOADING.
- 3. ALL LINTELS TO BE DESIGNED TO AS1684.
- 4. ALL DOUBLE LINTELS TO BE NAIL LAMINATED AS PER MAN. SPEC. / REQUIREMENTS.

FRAMING PLAN - AREA OF WORK A&B

C B	REVIEW / INFORMATION	JMW (COLLECTIVE	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	STAR OF TH COLLEGE		Preston Lane	PROJECT DETAIL STAR OF THE REDEVELOP 2-6 WILLIAM	E SEA	DRAWING TITLE FRAMING P	: LAN - AREA O	F WORK A & B	3
Α	REVIEW / INFORMATION	JMW (CONSULTING DISCLAIMER:	2. THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWALER AND AITY OF THESE REQUIRED AUTHORNIES FRAID TO COMMERCIME CONSTRUCTION. 3. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE. 4. INFORMATION PROVIDED WITHIN THIS DOCUMENT HAS BEEN PROVIDED UNDER COLLECTIVE CONSULTING'S TERMS OF ENGAGEMENT. BY ACCEPTING OR USING THE INFORMATI	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
REV:	ISSUED FOR / DESCRIPTION:	BY:	DATE:	DIOOL WINEIL.	WITHIN THIS DOCUMENT YOU HAVE ACCEPTED THE TERMS OF ENGAGEMENT. TERMS CAN BE VIEWED AT: www.collectiveconsulting.com.au/termsofengagement . 5. DO NOT SCALE DRAWINGS. COLLECTIVE CONSULTING IS NOT RESPONSIBLE FOR THE DIMENSIONING AND SETTING OUT OF COMPONENTS WITHIN THESE PROJECT DOCUMENTS.	AJL	-	JMW	-		1:100	231093	S601	С



		FRAMING SCHEDULE		
MARK	DESCRIPTION	LH / BTM CONNECTION / GENERAL (U.N.O.)	RH / TOP CONNECTION (U.N.O.)	
C1	139 x 5 CHS	6 CFW TO HDA1, COLD GALV TOUCH UP	REFER DETAIL	
C2	89 x 5 SHS	10 BASE PL, 4 - M16 x 200 LONG CHEMSET ANCHORS	10 PL, 2 - M20 T0 B2 / L1	
B1	200 x 100 x 5 RHS	6 CFW SITE WELD TO C1 , COLD GALV TOUCH UP	REFER DETAIL	
B2	2 / 240 x 45 LVL	REFER DETAIL	REFER DETAIL	
L1	100 x 10 EA	REFER DETAIL	REFER DETAIL	
P1	75 x 50 x 3 RHS	6 PL CLEAT, 2 - M10	-	
P2	100 x 50 x 3 RHS	6 PL CLEAT, 2 - M10	-	
RB1	150 x 100 x 5 RHS	10 PL CLEAT, 2 - M20	REFER DETAIL	
G1 100 x 50 x 3 RHS		6 PL CLEAT, 1 - M10	-	

	STEEL TRUSS SCHEDULE						
MARK	TOP CHORD	BOTTOM CHORD	VERTICAL MEMBERS	DIAGONAL MEMBERS	TRUSS DEPTH		
Tr1	150 x 100 x 5 RHS	200 x 100 x 5 RHS	100 x 100 x 5 RHS	-	REFER DETAIL		
Tr2	150 x 100 x 5 RHS	200 x 100 x 5 RHS	100 x 100 x 5 RHS	-	REFER DETAIL		

STEELWORK FRAMING NOTES:

STEELWORK WELDING

- 1. ALL WELDS ARE TO BE 6mm CONTINUOUS FILLET WELDS (CFW) U.N.O.
- 2. ALL SITE WELDS ARE TO HAVE THE APPROPRIATE SURFACE FINISH TOUCHED UP IMMEDIATELY.
- 3. TOUCH UP SITE WELDS WITH COLD GALV. STICK.

STEELWORK FIXING

- 1. ALL BOLTS ARE TO BE GALV. U.N.O.
- 2. ALL BOLTS ARE TO BE GRADE 8.8/S U.N.O.
- 3. BOLT HOLES ARE TO BE NO GREATER THAN THE BOLT DIA. + 2mm U.N.O.
- 4. UNLESS NOTED OTHERWISE, ALL CONNECTION PLATES ARE TO BE 10mm THICK.

STEELWORK FINISH

- 1. INTERNAL STEELWORK PRIME AND PAINT AS PER STRUCTURAL NOTES ON DRAWING S002.
- 2. EXTERNAL STEELWORK GALV. AS PER STRUCTURAL NOTES ON DRAWING S002.

TIMBER ROOF FRAMING NOTES:

1. ROOF BRACING TO TRUSS MAN. SPEC.

TII	TIMBER LINTEL 'Lt' SCHEDULE (IRON ROOF)							
SPAN ≤	MEMBER							
1200	90 x 63 LVL13 or 2/90 x 35 F17 HW							
1500	130 x 45 LVL13 or 140 x 45 F17 HW							
1800	170 x 45 LVL13 or 170 x 45 F17 HW							
2400	200 x 45 LVL13 or 190 x 45 F17 HW							
3000	240 x 45 LVL14 or 240 x 45 F17 HW							
4000	2/290 x 45 LVL14 or 2/290 x 45 F17 HW							

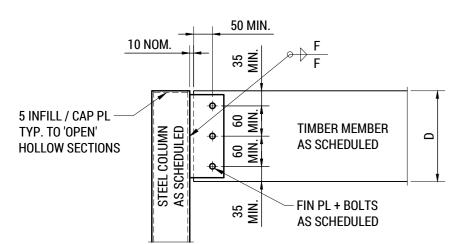
TIMBER LINTEL NOTES:

- 1. PROVIDE DOUBLE STUDS EACH SIDE OF WINDOWS AND EACH END OF TIMBER LINTELS / TIMBER BEAMS, TYP.
- 2. TRUSS MANUFACTURER TO VERIFY LINTEL DESIGN SUPPORTS ROOF TRUSS DISTRIBUTED & POINT LOADING.
- 3. ALL LINTELS TO BE DESIGNED TO AS1684.
- 4. ALL DOUBLE LINTELS TO BE NAIL LAMINATED AS PER MAN. SPEC. / REQUIREMENTS.

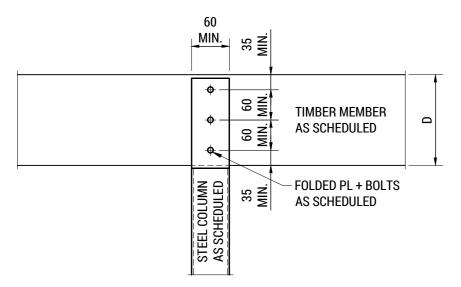
FRAMING PLAN - AREA OF WORK C

C B	REVIEW / INFORMATION	JMW (COLLECTIVE	\\\\.\.\.\.\.\.\.\.\.\.\.\.\.\	STAR OF TH COLLEGE		Preston Lane	PROJECT DETAIL STAR OF THE REDEVELOP 2-6 WILLIAM	E SEA	DRAWING TITLE FRAMING P	: LAN - AREA O	F WORK C	
Α	REVIEW / INFORMATION	JMW (CONSULTING DISCLAIMER:	 THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWATER AND ATTY CITED REQUIRED ACTION THE STATUS OF THE SECRET OF THE CURRENT REVISION PRIOR TO USE. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE. INFORMATION PROVIDED WITHIN THIS DOCUMENT HAS BEEN PROVIDED UNDER COLLECTIVE CONSULTING'S TERMS OF ENGAGEMENT. BY ACCEPTING OR USING THE INFORMATION. 	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
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	SINGLE FIN	I PL - TIMBI	ER MEMBER	
DEPTH 'D'	No. BOLTS	BOLT SIZE	PL THICKNESS	WELD 'F'
90	2	M12	8	6 CFW
130 / 140 / 150	2	M12	8	6 CFW
170	2	M12	8	6 CFW
190 / 200	2	M16	8	6 CFW
240	3	M12	8	6 CFW
290 / 300	3	M12	8	6 CFW
330	4	M16	10	6 CFW
360	4	M16	10	6 CFW
400	4	M16	10	6 CFW
450	4	M16	10	6 CFW



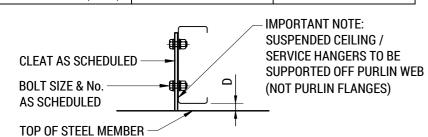
END CONNECTION TO STEEL COLUMN



SECTION DETAIL - MID / INTERMEDIATE CONNECTION



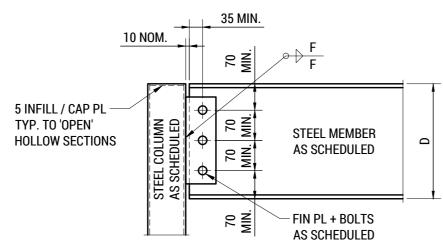
PURLIN / GIRT CLEAT & FIXING SCHEDULE							
DISTANCE 'D'	CLEAT SIZE / THICKNESS	BOLT SIZE & No.					
< 20mm	8 PL	2-PB1230					
20mm - 60mm	10 PL	2-PB1230					
60mm - 300mm (MAX.)	65 x 8.0 EA	2-PB1230					



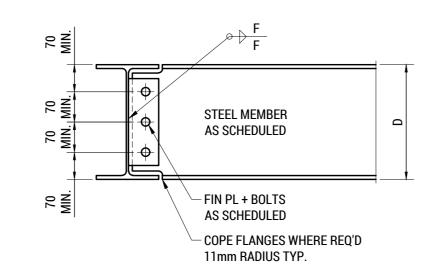
SECTION DETAIL - PURLIN CLEAT & FIXING



SINGLE FIN PL - STEEL MEMBER										
DEPTH 'D'	DEPTH 'D' No. BOLTS BOLT SIZE PL THICKNESS WELD 'F'									
150	2	M16	10	6 CFW						
180 / 200	2	M20	10	6 CFW						
230 / 250	3	M20	10	6 CFW						
300 / 310	3	M20	10	6 CFW						
360	3	M20	10	6 CFW						
380	4	M20	10	6 CFW						
410	4	M20	10	6 CFW						
460	4	M20	12	8 CFW						
530	5	M20	12	8 CFW						
610	6	M20	12	8 CFW						

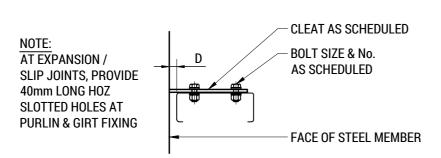


SECTION DETAIL - END CONNECTION

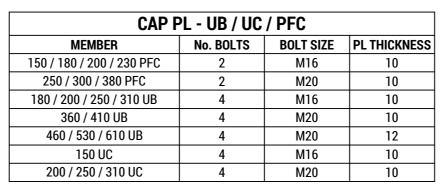


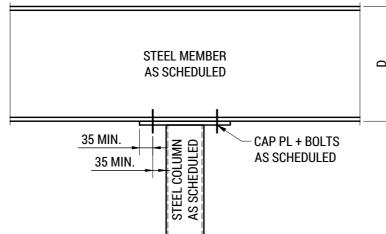
SECTION DETAIL - STEEL MEMBER TO STEEL MEMBER





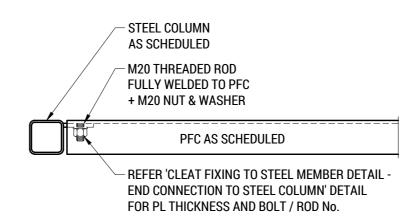
SECTION DETAIL - GIRT CLEAT & FIXING





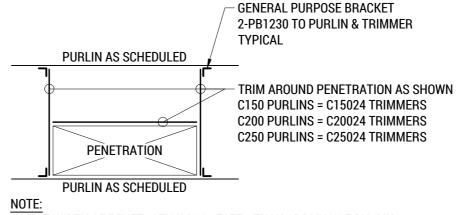
SECTION DETAIL - MID / INTERMEDIATE CONNECTION





SECTION DETAIL

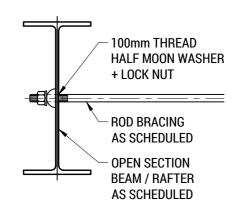




WHERE WIDTH OF PENETRATION IS GREATER THAN SPACING OF PURLINS, THE DESIGNER IS TO CHECK THE PURLIN & TRIMMER SIZES

PLAN DETAIL





OPEN SECTION BEAM / RAFTER

SECTION DETAIL

OPEN SECTION BEAM / RAFTER PLAN DETAIL

100mm THREAD

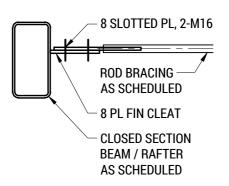
+ LOCK NUT

- 8 SLOTTED PL

2-M16

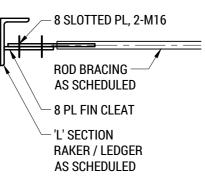
+ 8 PL FIN CLEAT

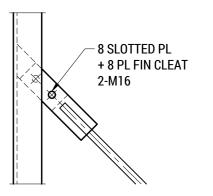
HALF MOON WASHER



CLOSED SECTION BEAM / RAFTER SECTION DETAIL

CLOSED SECTION BEAM / RAFTER PLAN DETAIL



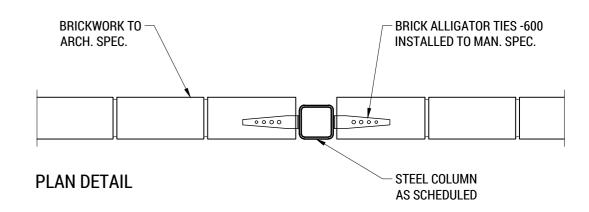


'L' SECTION RAKER / LEDGER SECTION DETAIL

'L' SECTION RAKER / LEDGER PLAN DETAIL

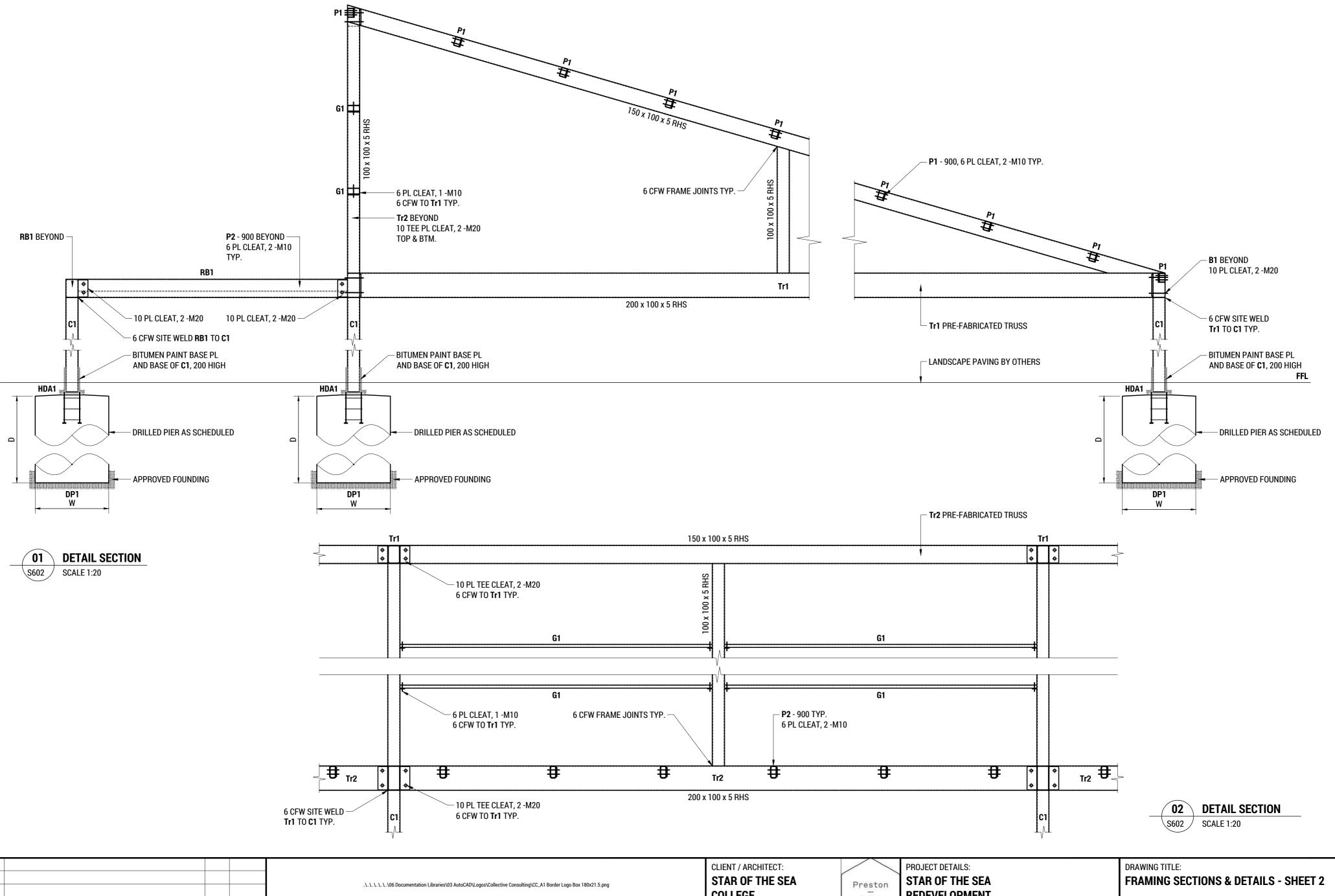
R05 ROOF BRACING 'Br' - ROD BRACING (TYP.)

SCALE 1:10

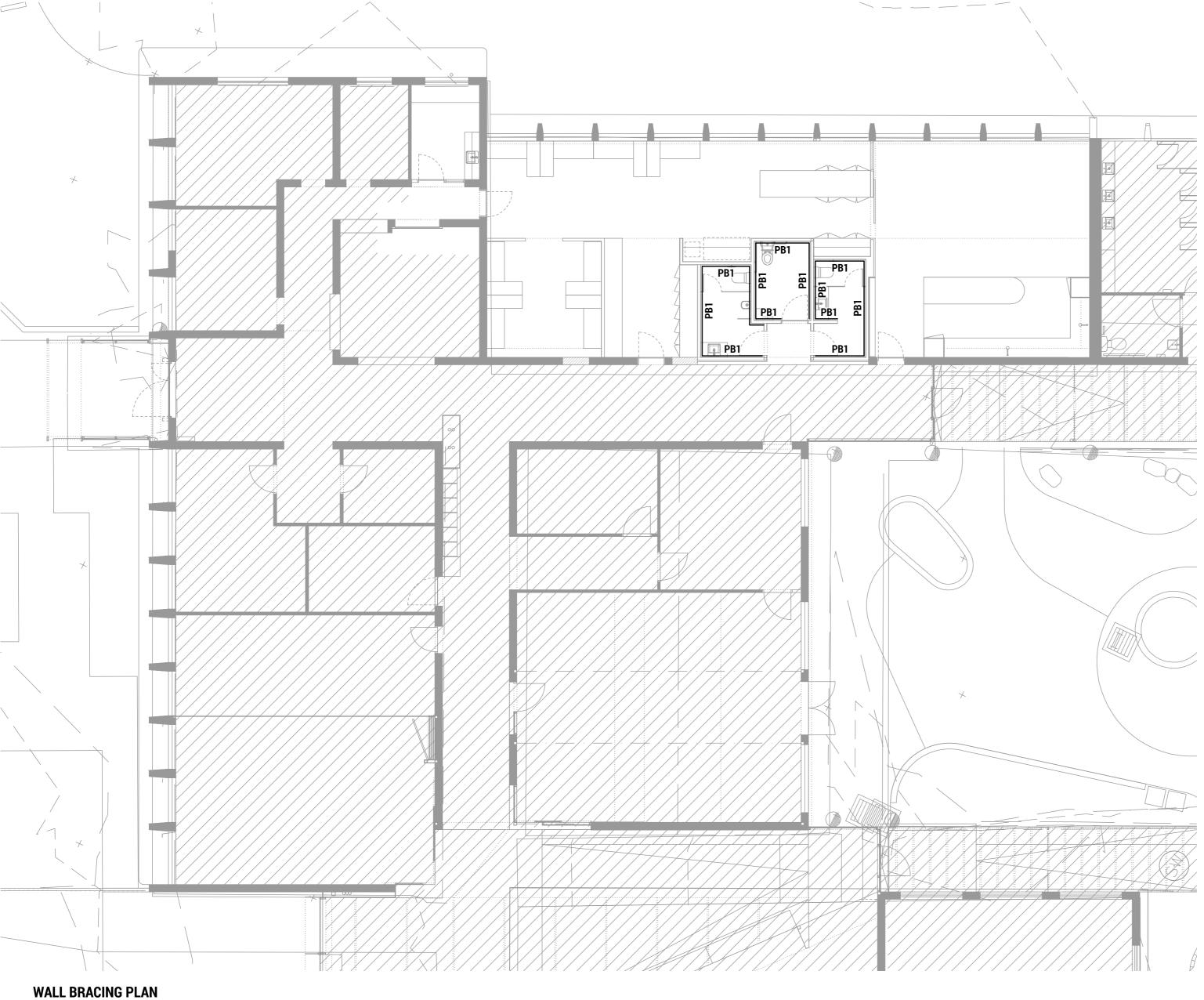




			\\\\06 Documentation Libraries\03 AutoCAD\Logos\Collective Consulting\CC_A1 Border Logo Box 180x21.5.png	CLIENT / ARCHIT STAR OF TH COLLEGE		Preston	PROJECT DETAILS STAR OF THE REDEVELOPE	E SEA	DRAWING TITLE FRAMING S	ECTIONS & DE	TAILS - SHEE	T 1
C B		24-06-2 03-04-2	COLLECTIVE 1. THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.	COLLEGE		Lane		STREET, GEORGE TOWN				
Α	REVIEW / INFORMATION JMW	06-03-2	CONSULTING 2. THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWATER AND ANY OTHER REQUIRED AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION. 3. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY EVEN THE STATUTE OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
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C	REVIEW / INFORMATION	JMW	24-06-24	\\\\.\.\06 Documentation Libraries\03 AutoCAD\Logos\Collective Consulting\CC_A1 Border Logo Box 180x21.5.png	STAR OF THI COLLEGE		Preston Lane	STAR OF THE SEA REDEVELOPMENT 2-6 WILLIAM STREET, GEORGE TOWN	FRAMING S		TAILS - SHEE	ET 2
В	REVIEW / INFORMATION	JMW	03-04-24	COLLECTIVE 1. THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.				2-0 WILLIAM STREET, GLORGE TOWN				
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WIND CLASSIFICATION	SCHEDULE
WIND CLASSIFICATION	N2
MAX. DESIGN GUST WIND SPEED (Vhp)	40m/s
GEOGRAPHIC REGION	Α
TOPOGRAPHIC CLASSIFICATION	T0
TERRAIN CATEGORY	TC2
SHIELDING CATEGORY	PS

NOTES:

1. WIND CLASSIFICATION IN ACCORDANCE WITH AS4055 - 2012.

2. REFER TO SITE CLASSIFICATION REPORT FOR WIND CLASSIFICATION.

	BRACING UNIT SCHEDULE									
PB1	PLYWOOD BRACING TYPE 'h' AS PER AS 1684.2 - TABLE 8.18									
PB2	PLYWOOD BRACING TYPE 'g' AS PER AS 1684.2 - TABLE 8.18									
BM	DOUBLE DIAGONAL METAL BRACING TYPE 'd' AS PER									

	BRICK ARTICULATION SCHEDULE											
MARK	BARS / TIES	DETAILS										
BAJ	MFA 3/3 EXPANSION TIE 1 No. CAST NAIL EACH END RECESS INTO BRICK EVERY FOURTH COURSE	FOAM BACKING STRIPS AND FLEXIBLE SEALANT AS PER TYP. DETAIL										

C B	REVIEW / INFORMATION	JMW		COLLECTIVE		CLIENT / ARCHIT STAR OF TH COLLEGE		Preston Lane	STAR OF THI REDEVELOPI 2-6 WILLIAM	E SEA	DRAWING TITLE WALL BRAC			
Α	REVIEW / INFORMATION	JMW	06-03-24	CONSULTING	THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE. INFORMATION PROVIDED WITHIN THIS DOCUMENT HAS BEEN PROVIDED UNDER COLLECTIVE CONSULTING'S TERMS OF ENGAGEMENT. BY ACCEPTING OR USING THE INFORMATION.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK:	CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:
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1. BRACING AND TIE DOWNS:

- A. TIMBER FRAMING ATTACHMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN SECTIONS 1 TO 7 OF AS1684.4, DETAILS SHOWN ON THE ENGINEERING DRAWINGS AND MATERIAL SUPPLIERS DETAILS.
- BRACING OF THE TIMBER FRAME AND ATTACHMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS PROVIDED IN SECTION 8 OF AS1684.4, DETAILS SHOWN ON THE ENGINEERING DRAWINGS AND MATERIAL SUPPLIERS DETAILS.
- TIE DOWN OF THE TIMBER FRAME AND ATTACHMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS PROVIDED IN SECTION 9 OF AS1684.4. DETAILS SHOWN ON THE ENGINEERING DRAWINGS AND MATERIAL SUPPLIERS DETAILS. NOMINAL FIXINGS AS SHOWN IN TABLE 9.3 SHALL APPLY AND ARE NOT REPEATED HERE. THE BUILDER IS TO NOTE THAT ONLY THE MINIMUM REQUIREMENTS FOR BRACING ARE COVERED BY THOSE SHOWN ON THIS DRAWING. ADDITIONAL BRACES MAY BE INSTALLED AS REQUIRED TO PREVENT 'RACKING' OF THE FRAME DURING ERECTION.

2 NAILS:

- A. UNLESS OTHERWISE SPECIFIED, THE MIN. DIA. OF MACHINE DRIVEN NAILS SHALL BE Ø3.05mm FOR HARDWOOD FRAMING OR Ø3.33mm FOR SOFTWOOD FRAMING.
- MACHINE DRIVEN NAILS SHALL BE GLUE COATED, OR DEFORMED SHANK DRIVEN NAILS MAY BE A SUITABLE EQUIVALENT
- WHERE NAIL LENGTHS ARE NOT SPECIFIED, THE MIN. DEPTH OF PENETRATION INTO THE FINAL MEMBER SHALL BE 10 TIMES THE NAIL DIA. WHERE DRIVEN INTO SIDE GRAIN, OR 15 TIMES THE NAIL DIA. WHERE DRIVEN INTO THE END GRAIN.
- WHERE CONNECTION IS NOT SHOWN ON TABLES, NO LESS THAN TWO NAILS SHALL BE DRIVEN INTO EACH JOINT / CONNECTION U.N.O. OR ON ASSOCIATED DRAWINGS.
- NAILS USED ON CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT DIP GALV. OR STAINLESS STEEL.
- IN MOST CASES, 40mm OF PENETRATION IS REQUIRED INTO THE FINAL MEMBER OF THE JOINT / CONNECTION.

SCREW FIX TIMBER STUD

- 90 x 35 (MIN.) TIMBER PL

200 LONG -900 MAX. CRS

FIX WITH 2/75 x Ø3.33 NAILS

2/30 x 0.8mm GI STRAPS

6/60 x Ø2.8mm GALV.

FLATHEAD NAILS EACH END OF STRAP

TO EACH WALL STUD

TO EACH STUD

TO COLUMN -600 CRS

STEEL COLUMN AS SCHEDULED

TIMBER STUD TO STEEL COLUMN DETAIL (TYP.)

3. PROPRIETARY FRAMING PRODUCTS:

A. WHERE PROPRIETARY WALL FRAMING BRACKETS ARE USED TO REPLACE STANDARD CONNECTIONS SHOWN, THE BUILDING CONTRACTOR SHALL ENSURE THE PROPRIETARY PRODUCT MATCHES OR EXCEEDS THE CONNECTIONS UPLIFT CAPACITY AS SPECIFIED IN AS1684.2, TABLE 9.21.

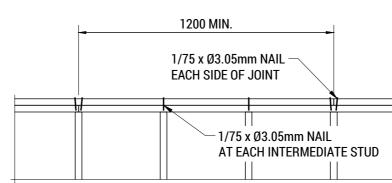
4. ALTERNATIVE CONNECTIONS:

SCALE 1:10

THE BUILDING CONTRACTOR MAY USE AN ALTERNATIVE CONNECTION AS SPECIFIED IN AS1684.2. HOWEVER THE CAPACITY OF THE CHOSEN CONNECTION MUST EXCEED THE CAPACITY OF THE CONNECTION DETAILED ON THESE DRAWINGS OR SHOWN IN THE TABLES ON THIS DRAWING.

WALL FRAMING TIE DOWN SCHEDULE								
MEMBER/S:	TIE DOWN (TO AS1684):							
SINGLE PLATE TO STUDS (TOP & BOTTOM)	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END -900 CRS							
DOUBLE PLATE TO STUDS (TOP & BOTTOM)	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END -900 CRS							
NOGGINS TO STUDS	2/75 x Ø3.05mm NAILS SKEWED THROUGH STUD							
BOTTOM PLATE TO JOISTS	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END -900 CRS							
BOTTOM PLATE TO CONC. SLAB	M10 MASONRY ANCHORS -900 CRS							
POST TO BEARER OR JOISTS	2-M10 BOLTS							
LINTEL TO STUD / POST ON SLAB	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END + 1-M10 BOLT TO SLAB							
LINTEL TO TIMBER FRAMING	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END TO TIMBER FRAMING							

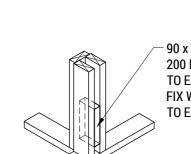
ROOF FRAMING TIE DOWN SCHEDULE								
MEMBER/S:	TIE DOWN (TO AS1684):							
ROOF TRUSSES TO TOP PLATE	TO TRUSS MANUFACTURERS SPECIFICATION							
RAFTERS TO TOP PLATE	30 x 0.8 GI STRAP WITH 4/Ø2.8mm NAILS EACH END							
CEILING JOISTS TO TOP PLATE	2/75 x Ø3.33mm SKEW NAILS							
CEILING JOISTS TO RAFTERS	2/75 x Ø3.05mm MACHINE DRIVEN NAILS							
VERANDAH OR ROOF BEAM TO POST	2-M10 BOLTS							
RAFTER TO RIDGE BEAM	30 x 0.8mm GI STRAP OVER TOP OF RAFTERS AND RIDGE WITH 6/Ø2.8mm NAILS INTO EACH RAFTER AND 30 x 0.8mm GI STRAP WRAPPED UNDER RIDGE BEAM WITH 4/Ø2.8mm NAILS TO EACH RAFTER AT END							
ROOF BATTEN TO RAFTER / TRUSS	FOR 35mm THICK BATTEN - 1/90mm LONG No. 14 TYPE 17 SCREW							



SINGLE TOP / BOTTOM PLATE DETAIL (TYP.)

STUD WALL INTERSECTION DETAIL (TYP.)

SCALE 1:20



SCALE 1:20

90 x 35 (MIN.) TIMBER PL 200 LONG -900 MAX. CRS TO EACH WALL STUD FIX WITH 2/75 x Ø3.33 NAILS TO EACH STUD

3/75 x Ø3.05mm NAILS

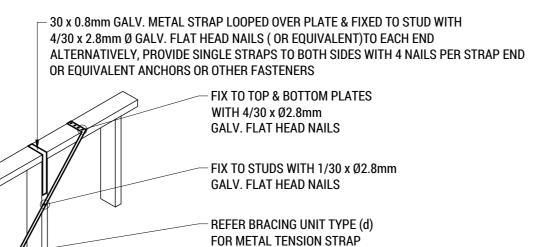
TO EACH SIDE OF JOINT

2/75 x Ø3.05mm NAILS

THROUGH STUD INTO NOGGIN

STUD WALL CORNER DETAIL (TYP.)

SCALE 1:20

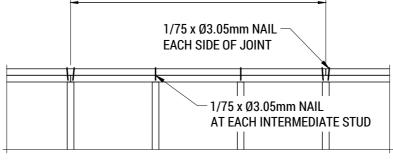


INTERNAL BRACED WALL FIXED TO EXTERIOR STUD WALL DETAIL (TYP.)

SCALE 1:20

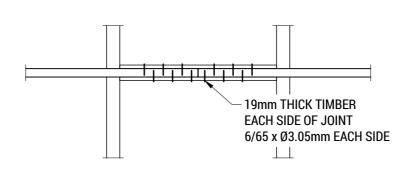
METAL BRACING STRAP FIXING DETAIL (TYP.)

SCALE 1:20



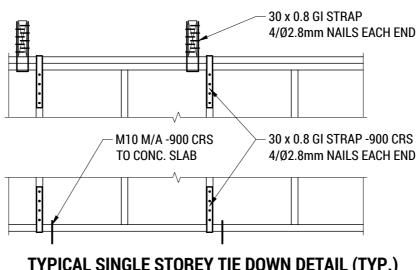
DOUBLE TOP PLATE JOINT DETAIL (TYP.)

SCALE 1:20



RIDGE BEAM JOINT DETAIL (TYP.)

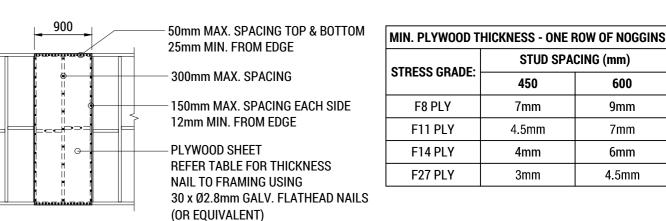
SCALE 1:20



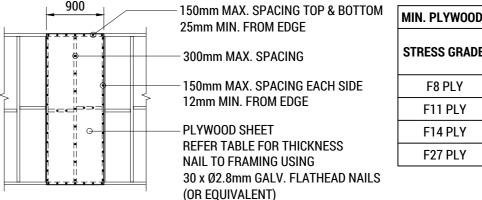
TYPICAL SINGLE STOREY TIE DOWN DETAIL (TYP.)

SCALE 1:20

-		24-06-2	\\\\06 Documentation Libraries\03 AutoCAD\Logos\Collective Consulting\CC_A1 Border Logo Box 180x21.5.png	CLIENT / ARCHITECT: STAR OF THE SEA COLLEGE		STAR OF THE SEA		STAR OF THE SEA		STAR OF THE SEA		STAR OF THE SEA		STAR OF THE SEA Prestor		STAR OF THE SEA		STAR OF THE SEA		Lane		DRAWING TITLE: TYPICAL WALL BRACING, TIE-DOWN & WALL FRAMING NOTES & DETAILS			
R			COLLECTIVE 1. THIS DRAWING HAS BEEN PRODUCED FOR THE NAMED CLIENT AND FOR USE OF THIS PROJECT ONLY, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. 2. THESE DRAWINGS MUST BE APPROVED BY COUNCIL, TASWATER AND ANY OTHER REQUIRED AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.				·																		
Α	REVIEW / INFORMATION JMW	06-03-2	CONSULTING 3. THE RECIPIENT IS RESPONSIBLE FOR ENSURING THAT THEY REVIEW THE STATUS OF THIS DRAWING, AND IN RECEIPT OF THE CURRENT REVISION PRIOR TO USE.	DESIGN BY:	DESIGN CHECK:	DRAWN BY:	DRAFT CHECK: CERTIFIER:	SCALE @ A2:	PROJECT No:	DRAWING No:	REVISION:														
REV:	ISSUED FOR / DESCRIPTION: BY:	DATE:	MITTING THE DOCUMENT VOLUME A COUNTY TO THE TERMS OF THE ACCURATE TERMS OF A DEVICTOR AT MAIN COLUMN THE COMMUNITARIES AND ACCURATE TO THE COMMUNITARIES AND ACCURATE THE COMMUNITARIES AND ACCURATE THE COMMUNITARIES AND ACCURATE THE COMMUNICATION CONTROL OF THE COMMUNICATION CO	AJL	-	JMW	-	1:20	231093	S711	C														

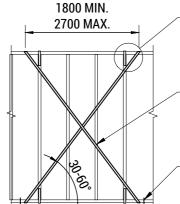


BRACING UNIT TYPE (h) - AS1684.4 - 5.4kN/m



MIN. PLYWOOD THICKNESS - ONE ROW OF NOGGINS										
CTDECC CDADE.	STUD SPACING (mm)									
STRESS GRADE:	450	600								
F8 PLY	7mm	7mm								
F11 PLY	4.5mm	4.5mm								
F14 PLY	4mm	4mm								
F27 PLY	3mm	3mm								

PB2 BRACING UNIT TYPE (g) - AS1684.4 - 3.0kN/m



- 30 x 0.8mm GALV. METAL STRAP LOOPED OVER PLATE & FIXED TO STUD WITH 4/30 x 2.8mm Ø GALV. FLAT HEAD NAILS (OR EQUIVALENT)TO EACH END ALTERNATIVELY, PROVIDE SINGLE STRAPS TO BOTH SIDES WITH 4 NAILS PER STRAP END OR EQUIVALENT ANCHORS OR OTHER FASTENERS

TENSION GALV. METAL STRAP WITH MIN. THICKNESS OF 0.8mm MIN. NET SECTIONAL AREA NOT LESS THAN 21mm² FIXED TO STUDS WITH 1/30 x Ø2.8mm GALV. FLAT HEAD NAILS AND TO TOP & BOTTOM PLATES WITH 4/30 x Ø2.8mm GALV. FLAT HEAD NAILS

CONNECTION TO FLOOR (8.4kN LIMIT STATE CAPACITY) REFER TO AS1684.2, CLAUSE 8.3.6.10 AND TABLE 8.23 & 8.24

BM - BRACING UNIT TYPE (d) - AS1684.4 - 3.0kN/m DOUBLE DIAGONAL METAL TENSION STRAPS