

**LEVEL 02 - FRAMING OVER PLAN**

SCALE: 1 : 100

STEEL COLUMN SCHEDULE		
MARK	SIZE	REMARKS
C1	89x6.0 SHS	STEEL COLUMN
C2	200x100x6.0RHS	STEEL COLUMN

ROOF FRAMING SCHEDULE		
MARK	SIZE	REMARKS
RJ1	240x42 LVL15 @ 900 MAX. CTS.	ROOF JOISTS
RT1	250 DEEP PRYDA LONGREACH ROOF TRUSS @ 900 CTS.	ROOF TRUSS BY OTHERS
RT2	250 DEEP PRYDA LONGREACH PURLIN TRUSS @ 900 CTS.	PURLIN TRUSS BY OTHERS

LINTEL SCHEDULE (RL)	
SPAN (mm)	SECTION
0 - 1200	140x45 HYS PAN LVL
1201 - 1900	2/140x45 HYS PAN LVL
1901 - 2400	2/190x45 HYS PAN LVL
2401 - 3000	2/240x45 HYS PAN LVL

**NOTE:**

- FOR LOAD BEARING ROOF LINTELS NOT NOMINATED ON PLAN, FOR TILED ROOFS, MAXIMUM ROOF LOAD WIDTH OF 5m.
- NOT SUITABLE FOR SUPPORT OF GIRDER TRUSSES OR POINT LOADS.
- ALL LINTELS ARE TO BE SUPPORTED ON 2/90x45 F17 KQHW NAIL LAMINATED STUDS (DS). ALL DOUBLE STUDS TO BE LOCATED ON TOP OF EDGE BEAM, TYPICAL.
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**FLOOR FRAMING OVER - LEGEND**

--- DENOTES - LOAD BEARING ELEMENT UNDER

--- DENOTES - BLOCKWALL OVER

--- DENOTES - LOAD BEARING STUD WALL OVER REFER PLANS FOR SPECIFICATION.

--- DENOTES - DOUBLE STUD OVER

--- DENOTES - TRIPLE STUD OVER

--- DENOTES - STEEL COLUMN OVER

STEP --- DENOTES - SLAB SETDOWN REFER TO ARCHITECTURAL DETAILS FOR LEVELS

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**LEVEL 02 - LOAD BEARING STUD WALL FRAMING:**

**GENERAL:**

ALL STUD FRAMING, TYPE, FIXINGS AND BRACING ETC. TO BE IN ACCORDANCE WITH AS1884 AND ANY SUPPLEMENTS (LIGHT TIMBER FRAMING MANUAL) ADOPTING A WIND CLASSIFICATION OF DETAILING PURPOSES. REFER ALSO TO THE ARCHITECT'S DRAWING AND SPECIFICATIONS FOR WALL TYPES AND FIRE RATING REQUIREMENTS.

**STUDS:**

UNLESS NOTED OTHERWISE ON PLAN OR SCHEDULED THE GROUND FLOOR STUDS ARE TO BE 80x45 MGP12 SPACED AT 450mm MAXIMUM CENTRES WITH 2 ROWS OF NOGGINGS EQUALLY SPACED BETWEEN THE TOP AND BOTTOM PLATES. (3000mm MAX. HEIGHT.)

**WALL BRACING:**

ALL WALL BRACING, TYPE, POSITION, FIXING AND WALL TIE DOWN DETAILS TO BE IN ACCORDANCE WITH AS1884, SECTION 8.3.8.

**DOUBLE STUDS (U.N.O.):**

PROVIDE 2/90 x 45 MGP12 STUDS LOCATED UNDER ENDS OF ALL FIRST FLOOR BEAMS AND LINTELS UNLESS NOTED OTHERWISE. MULTIPLE STUDS ARE TO BE NAIL LAMINATED TOGETHER TO FORM A SINGLE UNIT IN ACCORDANCE WITH AS 1884.

**TRIPLE STUDS (U.N.O.):**

PROVIDE 2/90x45 MGP12 STUDS LOCATED UNDER ENDS OF FIRST FLOOR BEAMS AND LINTELS WHERE NOMINATED ON PLAN. MULTIPLE STUDS ARE TO BE NAIL LAMINATED TOGETHER TO FORM A SINGLE UNIT IN ACCORDANCE WITH AS 1884.

**COLUMNS:**

ALL INTERNAL STEEL COLUMNS ARE TO BE TIED TO THE ADJACENT STUD WALLS WITH TYPE 17 SCREW FASTENERS AT MAXIMUM 300 CENTRES TO INTERSECTING TIMBER STUDS, TYPICAL.

**TEMPORARY WALL BRACING:**

THE BUILDER/CARPENTER IS TO PROVIDE ADEQUATE TEMPORARY BRACING TO PLUMB WALLS AT EACH LEVEL DURING CONSTRUCTION. TEMPORARY BRACING IS ADDITIONAL TO ANY BRACING SHOWN ON THESE DRAWINGS AND MUST REMAIN IN POSITION UNTIL STUD FRAMING, ALL PERMANENT WALL BRACING, STEELWORK AND THE PLATFORM FLOOR AND ROOF OVER HAS BEEN COMPLETED.

**WALL BRACING:**

ALL WALL BRACING, TYPE, POSITION, FIXING AND WALL TIE DOWN DETAILS TO BE IN ACCORDANCE WITH AS1884, SECTION 8.3.8. ALL BRACING IS TO SATISFY STABILITY REQUIREMENTS ONLY AND MAY NOT SATISFY THE REQUIREMENTS OF AS1884. CONTRACTOR TO INSTALL ADDITIONAL BRACING TO SUIT.

**MASONRY NOTES**

- PROVIDE MASONRY TIES FROM STUD WALLS IN ACCORDANCE WITH AS3700 AND AS2899, AND INSTALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.
- REFER TO ARCHITECT FOR SPECIFICATION OF COMPRESSIBLE BACKING ROD AND JOINT SEALANT OR FIRE RATED FILLER AT CONTROL JOINTS.

**M.S. ANGLE LINTEL SCHEDULE**

MAX. SPAN	BRICKWORK LINTEL
1500	90 x 90 x 6 EA
2000	90 x 90 x 8 EA
2500	150 x 90 x 8 UA
3000	150 x 90 x 10 UA

2/3 BRICK WIDTH MIN.

- PROVIDE 200mm MINIMUM BEARING EACH END
- MINIMUM 2/3 BRICK BEARING ONTO LINTEL
- LONG LEG OF ANGLE VERTICAL
- ABOVE LINTEL SIZES ASSUME MASONRY ARCHING IS POSSIBLE, AND NO OTHER VERTICAL LOADS ON WALL EXCEPT FOR SELF WEIGHT.
- LINTELS TO BE HOT DIP GALVANISED.

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REVISION	ISSUE	DATE	DESCRIPTION
C2	24.08.2021	CONSTRUCTION ISSUE	
C1	05.05.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

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**CONSTRUCTION**

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**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

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**LEVEL 02 - FRAMING OVER PLAN**

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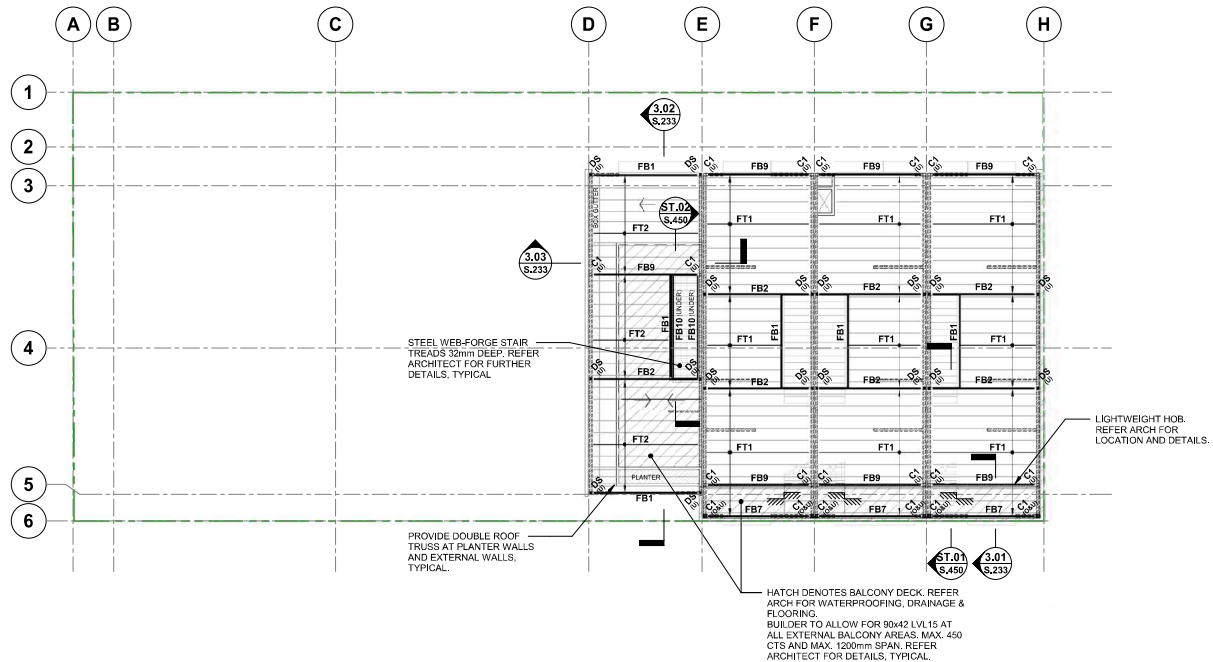
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Job No.		Drawing No.	Rev.

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**20501 S.221 C2**

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**LEVEL 03 - FRAMING UNDER PLAN**

SCALE: 1 : 100

FLOOR FRAMING SCHEDULE		
MARK	SIZE	REMARKS
FB1	2/240x42 LVL15	FLOOR BEAM (NAIL LAMINATED), IN ACCORDANCE WITH AS1684
FB2	2/290x42 LVL15	FLOOR BEAM (NAIL LAMINATED), IN ACCORDANCE WITH AS1684
FB3	190x45 LVL15	FLOOR BEAM
FB4	180PFC	STEEL BEAM
FB6	200x100x9.0 RHS (G450) + 150x100x10 UA (GALVANISED)	STEEL BEAM
FB7	200PFC + (90x6.0 EA TO PICK UP BRICKWORK, AS REQUIRED)	STEEL BEAM
FB8	310UB40.4 (G450) (PORTALISED BEAM)	STEEL BEAM
FB9	200PFC	STEEL BEAM
FB10	200PFC	STAIR STRINGER
FB11	150PFC	STAIR BEAM
FJ1	90x42 LVL15 @ 450 CTS. MAX. SPAN 1200mm	ROOF DECK FLOOR JOISTS
FJ2	300x80 LVL15 @ 450 CTS. MAX. SPAN 6000mm (2 ROWS OF FULL DEPTH SOLID BLOCKING AT THIRD SPANS)	TIMBER FLOOR JOISTS
FT1	250 MIN. DEEP PRYDA LONGREACH FLOOR TRUSS @ 450 CTS	FLOOR TRUSS BY OTHERS
NOTET2	300 MIN. DEEP PRYDA LONGREACH FLOOR TRUSS @ 450 CTS	FLOOR TRUSS BY OTHERS

FLOOR TRUSS MANUFACTURER TO ALLOW FOR SUPERIMPOSED DEAD LOAD OF 1kPa AND A LIVE LOAD OF 3kPa FOR ALL EXTERNAL ROOF TOP TERRACE AREAS. REFER ARCHITECTURAL DOCUMENTS FOR FURTHER INFORMATION, TYPICAL.

STEEL COLUMN SCHEDULE		
MARK	SIZE	REMARKS
C1	89x8.0 SHS	STEEL COLUMN
C2	200x100x6.0RHS	STEEL COLUMN

**FLOOR FRAMING UNDER - LEGEND**

----- DENOTES - LOAD BEARING ELEMENT UNDER

**FBx** DENOTES - FLOOR BEAM  
REFER SCHEDULE FOR SIZE.

DENOTES - DOUBLE STUD UNDER

**STEP** DENOTES - SLAB SETDOWN  
REFER TO ARCHITECTURAL DETAILS FOR LEVELS

**TIMBER FLOOR TRUSS NOTES:**

ALL FLOOR TRUSSES AND BRACING SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH AS1684:2010 AND AS1720.1 AND THE BUILDING CODE OF AUSTRALIA (BCA)

ALL TRUSSED FLOOR CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE TRUSS MANUFACTURERS DETAILS AND SPECIFICATIONS

THE FLOOR TRUSS LAYOUT SHOWN ON PLAN IS INDICATIVE ONLY. THE CONTRACTOR IS TO CONFIRM THEIR LOCATIONS PRIOR TO THE COMMENCEMENT OF WORKS.

REFER TO THE FLOOR TRUSS MANUFACTURER FOR:

- DESIGN CALCULATIONS FOR IN SERVICE AND ERECTION LOADS
- DETAILS OF ALL CONNECTIONS TO MAIN STRUCTURES INCLUDING ALL TIE DOWN AND FIXING DETAILS
- DESIGN AND DETAILS FOR BRACING AND IN-SERVICE AND ERECTION CONDITIONS
- INTELS, BEAMS AND SUPPORTS AS REQUIRED BY THE TRUSS DESIGN
- CERTIFICATION AND CERTIFICATE OF DESIGN COMPLIANCE.

THE FLOOR TRUSS DESIGNER SHALL ALLOW FOR THE FOLLOWING APPLIED LOADINGS:

- LIVE LOADS AS PER AS1170.1
- SUPER IMPOSED DEAD LOAD OF MINIMUM 0.5kPa

THE FLOOR TRUSS DESIGNER MUST PROVIDE CALCULATIONS, INCLUDING DEFLECTION CALCULATIONS FOR TO THIS OFFICE FOR REVIEW PRIOR TO FABRICATION. THE FLOOR TRUSS DESIGN IS TO BE INDEPENDENTLY CERTIFIED

**MASONRY NOTES**

- PROVIDE MASONRY TIES FROM STUD WALLS IN ACCORDANCE WITH AS3700 AND AS2899, AND INSTALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.
- REFER TO ARCHITECT FOR SPECIFICATION OF COMPRESSIBLE BACKING ROOF AND JOINT SEALANT OR FIRE RATED FILLER AT CONTROL JOINTS.

**M.S. ANGLE LINTEL SCHEDULE**

MAX. SPAN	BRICKWORK LINTEL
1500	90 x 90 x 6 EA
2000	90 x 90 x 8 EA
2500	150 x 90 x 8 UA
3000	150 x 90 x 10 UA

2/3 BRICK WIDTH MIN.

- PROVIDE 200mm MINIMUM BEARING EACH END
- MINIMUM 2/3 BRICK BEARING ONTO LINTEL
- LONG LEGS OF ANGLE VERTICAL
- ABOVE LINTEL SIZES ASSUME MASONRY ARCHING IS POSSIBLE, AND NO OTHER VERTICAL LOADS ON WALL EXCEPT FOR SELF WEIGHT.
- LINELS TO BE HOT DIP GALVANISED.

**EXPOSED STEEL FRAMING NOTE:**

ALL EXPOSED STEELWORK IS TO BE HOT DIP GALVANISED (HDG) OR APPROVED EQUIVALENT FOR CORROSION PROTECTION TYPICAL U.N.O.

SERVICE LOCATIONS TO BE COORDINATED WITH ARCHITECT/MECH/EHD ENGINEERS REQUIREMENTS. WALL TIMBER WINDOW HEADER DETAILS TO AS1684 TYPICAL U.N.O.

FIRE RATINGS OF STEELWORK TO BUILDING SURVEYORS REQUIREMENTS. REFER ARCHITECT FOR DETAILS, TYPICAL.

**EXPOSED TIMBER FRAMING NOTE:**

ALL EXPOSED TIMBER ABOVE GROUND IS TO BE PROTECTED TO A HAZARD CLASS OF H3.

ALL EXPOSED TIMBER IN CONTACT OR IN GROUND IS TO BE PROTECTED TO A HAZARD CLASS OF H4.

FIRE RATING OF TIMBER TO BUILDING SURVEYORS REQUIREMENTS. REFER ARCHITECT FOR DETAILS, TYPICAL.

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REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
 1 & 1A STEWART ST,  
 BRUNSWICK

**LEVEL 03 - FRAMING UNDER PLAN**

DATE:	OCT 2020	DESIGNED:	SM
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Job No.		Drawing No.	

**20501 S.230 C1**



**LEVEL 03 - FRAMING OVER PLAN**

SCALE: 1 : 100

STEEL COLUMN SCHEDULE		
MARK	SIZE	REMARKS
C1	89x6.0 SHS	STEEL COLUMN
C2	200x100x6.0RHS	STEEL COLUMN

STEEL FRAMING SCHEDULE		
MARK	SIZE	REMARKS
SB1	89x5.0 SHS + 90x6.0 EA	STEEL BEAM

**FLOOR FRAMING OVER - LEGEND**

	DENOTES - LOAD BEARING ELEMENT UNDER
	DENOTES - BLOCKWALL OVER
	DENOTES - LOAD BEARING STUD WALL OVER REFER PLANS FOR SPECIFICATION.
	DENOTES - DOUBLE STUD OVER
	DENOTES - TRIPLE STUD OVER
	DENOTES - STEEL COLUMN OVER
	DENOTES - SLAB SETDOWN REFER TO ARCHITECTURAL DETAILS FOR LEVELS

**LEVEL 03 - LOAD BEARING STUD WALL FRAMING:**

**GENERAL:**  
 ALL STUD FRAMING, TYPE, FIXINGS AND BRACING ETC. TO BE IN ACCORDANCE WITH AS1884 AND ANY SUPPLEMENTS (LIGHT TIMBER FRAMING MANUAL), ADOPTING A WIND CLASSIFICATION OF 43 FOR DETAILING PURPOSES.  
 REFER ALSO TO THE ARCHITECT'S DRAWING AND SPECIFICATIONS FOR WALL TYPES AND FIRE RATING REQUIREMENTS.

**STUDS:**  
 UNLESS NOTED OTHERWISE ON PLAN OR SCHEDULED THE GROUND FLOOR STUDS ARE TO BE 80x45 MGP12 SPACED AT 450mm MAXIMUM CENTRES WITH 2 ROWS OF NOGGINGS EQUALLY SPACED BETWEEN THE TOP AND BOTTOM PLATES. (3000mm MAX. HEIGHT.)

**WALL BRACINGS:**  
 ALL WALL BRACING, TYPE, POSITION, FIXING AND WALL TIE DOWN DETAILS TO BE IN ACCORDANCE WITH AS1884, SECTION 8.3.8.

**DOUBLE STUDS (U.N.O.):**  
 PROVIDE 290 x 45 MGP12 STUDS LOCATED UNDER ENDS OF ALL FIRST FLOOR BEAMS AND LINTELS UNLESS NOTED OTHERWISE. MULTIPLE STUDS ARE TO BE NAIL LAMINATED TOGETHER TO FORM A SINGLE UNIT IN ACCORDANCE WITH AS 1884.

**TRIPLE STUDS (U.N.O.):**  
 PROVIDE 290x45 MGP12 STUDS LOCATED UNDER ENDS OF FIRST FLOOR BEAMS AND LINTELS WHERE NOMINATED ON PLAN. MULTIPLE STUDS ARE TO BE NAIL LAMINATED TOGETHER TO FORM A SINGLE UNIT IN ACCORDANCE WITH AS 1884.

**COLUMNS:-**  
 ALL INTERNAL STEEL COLUMNS ARE TO BE TIED TO THE ADJACENT STUD WALLS WITH TYPE 17 SCREW FASTENERS AT MAXIMUM 300 CENTRES TO INTERSECTING TIMBER STUDS, TYPICAL.

**TEMPORARY WALL BRACING:-**  
 THE BUILDER/CARPENTER IS TO PROVIDE ADEQUATE TEMPORARY BRACING TO PLUMB WALLS AT EACH LEVEL DURING CONSTRUCTION. TEMPORARY BRACING IS ADDITIONAL TO ANY BRACING SHOWN ON THESE DRAWINGS AND MUST REMAIN IN POSITION UNTIL STUD FRAMING, ALL PERMANENT WALL BRACING, STEELWORK AND THE PLATFORM FLOOR AND ROOF OVER HAS BEEN COMPLETED.

**WALL BRACING:-**  
 ALL WALL BRACING, TYPE, POSITION, FIXING AND WALL TIE DOWN DETAILS TO BE IN ACCORDANCE WITH AS1884, SECTION 8.3.8. ALL BRACING IS TO SATISFY STABILITY REQUIREMENTS ONLY AND MAY NOT SATISFY THE REQUIREMENTS OF AS1884. CONTRACTOR TO INSTALL ADDITIONAL BRACING TO SUIT.

**MASONRY NOTES**

- PROVIDE MASONRY TIES FROM STUD WALLS IN ACCORDANCE WITH AS3700 AND AS2899, AND INSTALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.
- REFER TO ARCHITECT FOR SPECIFICATION OF COMPRESSIBLE BACKING ROD AND JOINT SEALANT OR FIRE RATED FILLER AT CONTROL JOINTS.

**M.S. ANGLE LINTEL SCHEDULE**

MAX. SPAN	BRICKWORK LINTEL
1500	90 x 90 x 6 EA
2000	90 x 90 x 8 EA
2500	150 x 90 x 8 UA
3000	150 x 90 x 10 UA

- PROVIDE 200mm MINIMUM BEARING EACH END
- MINIMUM 2/3 BRICK BEARING ONTO LINTEL
- LONG LEG OF ANGLE VERTICAL
- ABOVE LINTEL SIZES ASSUME MASONRY ARCHING IS POSSIBLE, AND NO OTHER VERTICAL LOADS ON WALL EXCEPT FOR SELF WEIGHT.
- LINTELS TO BE HOT DIP GALVANISED.

**EXPOSED STEEL FRAMING NOTE:**

ALL EXPOSED STEELWORK IS TO BE HOT DIP GALVANISED (HDG) OR APPROVED EQUIVALENT FOR CORROSION PROTECTION TYPICAL U.N.O.  
 SERVICE LOCATIONS TO BE COORDINATED WITH ARCHITECT/MECHANICAL ENGINEERS REQUIREMENTS.  
 WALL TIMBER WINDOW HEADER DETAILS TO AS1684 TYPICAL U.N.O.  
 FIRE RATING OF STEELWORK TO BUILDING SURVEYORS REQUIREMENTS. REFER ARCHITECT FOR DETAILS, TYPICAL.

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REVISION

ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE
P2	01.12.2020	PRICING ISSUE
P1	16.10.2020	PRELIMINARY ISSUE

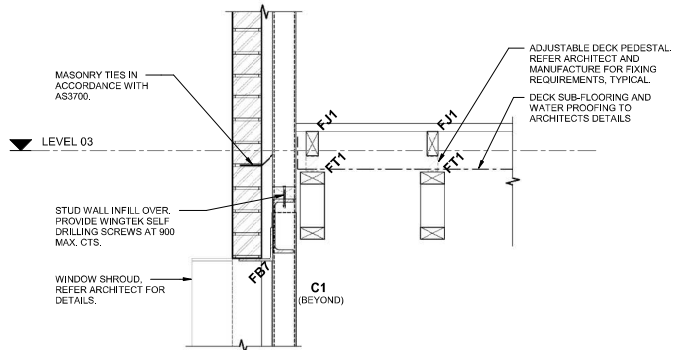
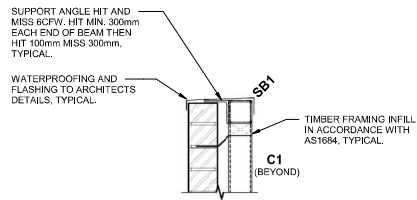
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
 1 & 1A STEWART ST,  
 BRUNSWICK

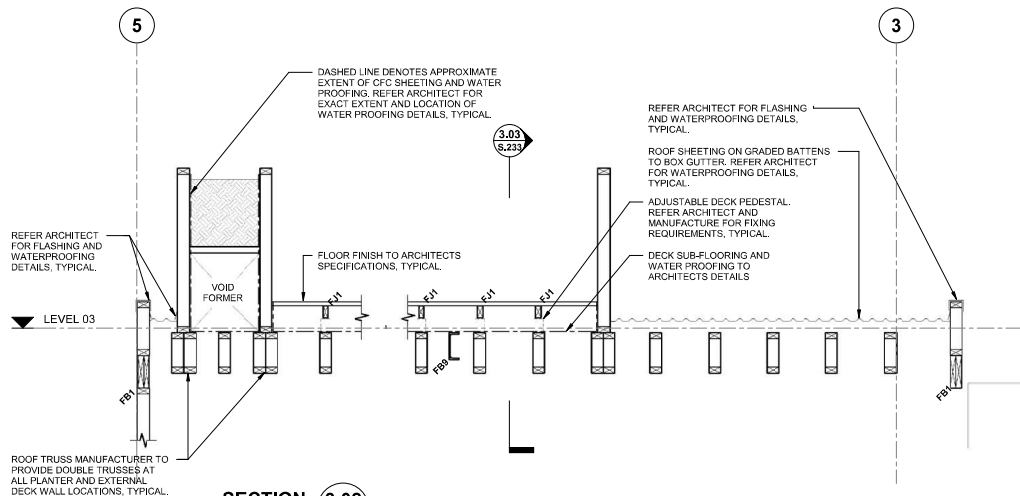
LEVEL 03 - FRAMING OVER PLAN

DATE:	OCT 2020	DESIGNED:	SM
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Job No.		Drawing No.	

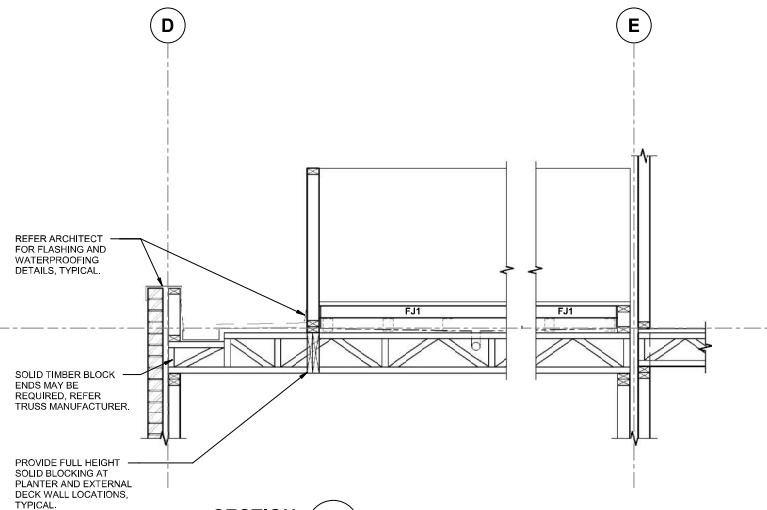




**SECTION 3.01**  
SCALE 1 : 10 S.230



**SECTION 3.02**  
SCALE 1 : 20 S.230



**SECTION 3.03**  
SCALE 1 : 20 S.230

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REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

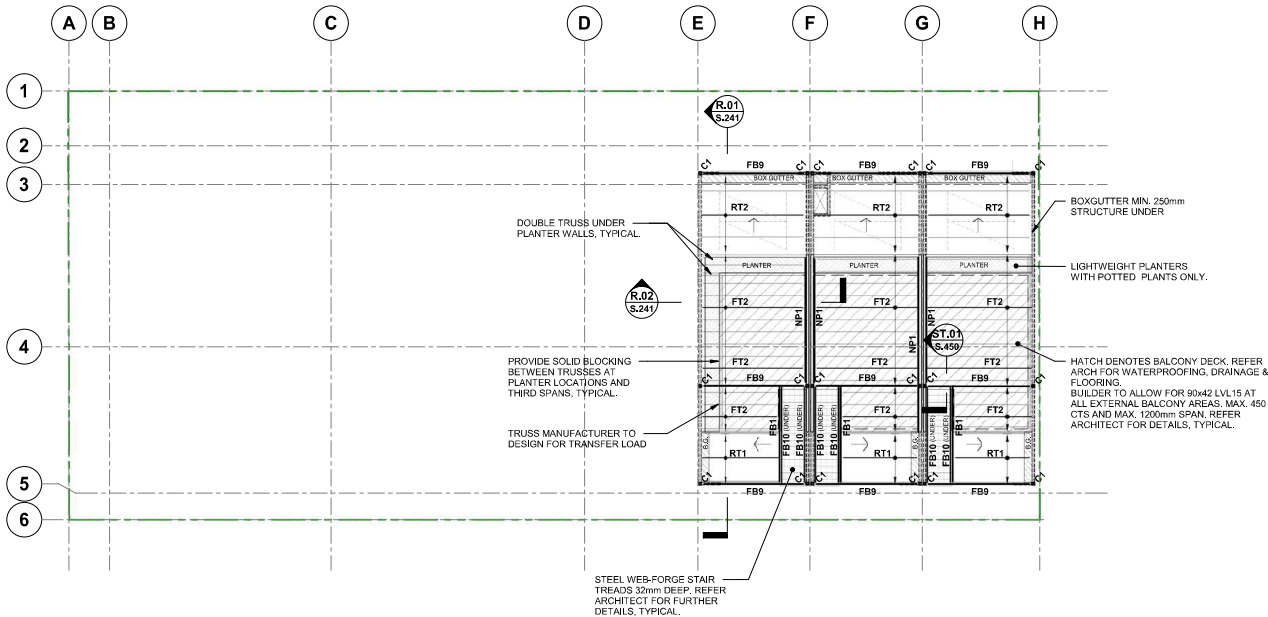
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

LEVEL 03 - SECTIONS AND DETAILS

DATE:	OCT 2020	DESIGNED:	SM
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Job No.		Drawing No.	Rev.

**20501 S.233 C1**



**NOTE:**  
TANKING TO ROOF TOP DECK REFER ARCHITECT FOR DETAILS.  
ROOF DECK BALUSTRADE FRAMING TO ARCHITECT'S DETAILS, TYPICAL.

**TIMBER ROOF TRUSS NOTES:**  
ALL ROOF TRUSSES ARE TO BE DESIGNED FOR A WIND TERRAIN CATEGORY OF 3 IN ACCORDANCE WITH AS1170.2.  
ALL ROOF TRUSSES AND BRACING (ROOF AND WALL) SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH AS1684:2010 AND AS1720.1 AND THE BUILDING CODE OF AUSTRALIA (BCA).  
ALL TRUSSED ROOF CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE TRUSS MANUFACTURERS DETAILS AND SPECIFICATIONS.  
THE ROOF TRUSS LAYOUT SHOWN ON PLAN IS INDICATIVE ONLY. THE CONTRACTOR IS TO CONFIRM THEIR LOCATIONS PRIOR TO THE COMMENCEMENT OF WORKS.  
THE TRUSS MANUFACTURER IS TO DESIGN AND DETAIL ALL TIMBER BATTENS TO AS1684:2010. BATTENS ARE TO BE SPACED AT MAXIMUM 450MM CENTRES FOR TRUSS SPACINGS GREATER THAN 600MM, OR ELSE 900MM MAX.  
REFER TO THE ROOF TRUSS MANUFACTURER FOR:  
• DESIGN CALCULATIONS FOR IN SERVICE AND ERECTION LOADS  
• DETAILS OF ALL CONNECTIONS TO MAIN STRUCTURES INCLUDING ALL TIE DOWN AND FIXING DETAILS  
• DESIGN AND DETAILS FOR BRACING AND IN-SERVICE AND ERECTION CONDITIONS  
• LINTELS, BEAMS AND SUPPORTS AS REQUIRED BY THE TRUSS DESIGN  
• CERTIFICATION AND CERTIFICATE OF DESIGN COMPLIANCE.  
THE ROOF TRUSS DESIGNER SHALL ALLOW FOR THE FOLLOWING APPLIED LOADINGS:  
1. LIVE LOADS AS PER AS1170.1  
2. FALL ARREST PROTECTION LOADS (TO BE PROVIDED BY THE BUILDER) AS PER THE ARCHITECTURAL LOCATIONS  
3. MECHANICAL UNIT WEIGHTS - REFER TO THE MECHANICAL AND ARCHITECTURAL DOCUMENTATION FOR WEIGHTS AND LOCATIONS  
THE ROOF TRUSS DESIGNER MUST PROVIDE CALCULATIONS, INCLUDING DEFLECTION CALCULATIONS FOR TO THIS OFFICE FOR REVIEW PRIOR TO FABRICATION. THE ROOF TRUSS DESIGN IS TO BE INDEPENDENTLY CERTIFIED.  
**NOTE:**  
BUILDER TO COORDINATE LOCATIONS OF MECHANICAL, PLANT AND OTHER SERVICES LOCATED IN THE ROOF SPACE WITH TIMBER ROOF TRUSSES AND TRUSS WEB MEMBERS. ROOF TRUSSES AND BRACING TO SPECIALIST MANUFACTURERS DESIGN AND SPECIFICATION.

**TIMBER FLOOR TRUSS NOTES:**  
ALL FLOOR TRUSSES AND BRACING SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH AS1684:2010 AND AS1720.1 AND THE BUILDING CODE OF AUSTRALIA (BCA).  
ALL TRUSSED FLOOR CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE TRUSS MANUFACTURERS DETAILS AND SPECIFICATIONS.  
THE FLOOR TRUSS LAYOUT SHOWN ON PLAN IS INDICATIVE ONLY. THE CONTRACTOR IS TO CONFIRM THEIR LOCATIONS PRIOR TO THE COMMENCEMENT OF WORKS.  
REFER TO THE FLOOR TRUSS MANUFACTURER FOR:  
• DESIGN CALCULATIONS FOR IN SERVICE AND ERECTION LOADS  
• DETAILS OF ALL CONNECTIONS TO MAIN STRUCTURES INCLUDING ALL TIE DOWN AND FIXING DETAILS  
• DESIGN AND DETAILS FOR BRACING AND IN-SERVICE AND ERECTION CONDITIONS  
• LINTELS, BEAMS AND SUPPORTS AS REQUIRED BY THE TRUSS DESIGN  
• CERTIFICATION AND CERTIFICATE OF DESIGN COMPLIANCE.  
THE FLOOR TRUSS DESIGNER SHALL ALLOW FOR THE FOLLOWING APPLIED LOADINGS:  
1. LIVE LOADS AS PER AS1170.1  
2. SUPERIMPOSED DEAD LOAD OF MINIMUM 0.5kPa  
THE FLOOR TRUSS DESIGNER MUST PROVIDE CALCULATIONS, INCLUDING DEFLECTION CALCULATIONS FOR TO THIS OFFICE FOR REVIEW PRIOR TO FABRICATION. THE FLOOR TRUSS DESIGN IS TO BE INDEPENDENTLY CERTIFIED.

**MASONRY NOTES**  
1. PROVIDE MASONRY TIES FROM STUD WALLS IN ACCORDANCE WITH AS3700 AND AS2899, AND INSTALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.  
2. REFER TO ARCHITECT FOR SPECIFICATION OF COMPRESSIBLE BACKING ROD AND JOINT SEALANT OR FIRE RATED FILLER AT CONTROL JOINTS.  
**M.S. ANGLE LINTEL SCHEDULE**

MAX. SPAN	BRICKWORK LINTEL
1500	90 x 90 x 6 EA
2000	90 x 90 x 8 EA
2500	150 x 90 x 8 UA
3000	150 x 90 x 10 UA

2/3 BRICK WIDTH MIN.  
1. PROVIDE 200mm MINIMUM BEARING EACH END  
2. MINIMUM 2/3 BRICK BEARING ONTO LINTEL  
3. LONG LEG OF ANGLE VERTICAL  
4. ABOVE LINTEL SIZES ASSUME MASONRY ARCHING IS POSSIBLE, AND NO OTHER VERTICAL LOADS ON WALL EXCEPT FOR SELF WEIGHT.  
5. LINTELS TO BE HOT DIP GALVANISED.

**ROOF - FRAMING PLAN**

SCALE: 1 : 100

FLOOR FRAMING SCHEDULE		
MARK	SIZE	REMARKS
FB1	2/240x42 LVL15	FLOOR BEAM (NAIL LAMINATED) IN ACCORDANCE WITH AS1684
FB2	2/290x42 LVL15	FLOOR BEAM (NAIL LAMINATED) IN ACCORDANCE WITH AS1684
FB3	190x45 LVL15	FLOOR BEAM
FB4	180PFC	STEEL BEAM
FB6	200x100x9.0 RHS (G450) + 150x100x10 UA (GALVANISED)	STEEL BEAM
FB7	200PFC + 180x6.0 EA TO PICK UP BRICKWORK, AS REQUIRED	STEEL BEAM
FB8	310UB40.4 (G450) (PORTALISED BEAM)	STEEL BEAM
FB9	200PFC	STEEL BEAM
FB10	200PFC	STAIR STRINGER
FB11	150PFC	STAIR BEAM
FJ1	90x42 LVL15 @ 450 CTS. MAX. SPAN 1200mm	ROOF DECK FLOOR JOISTS
FJ2	300x68 LVL15 @ 450 CTS. MAX. SPAN 6000mm (2 ROWS OF FULL DEPTH SOLID BLOCKING AT THIRD SPANS)	TIMBER FLOOR JOISTS
FT1	280 MIN. DEEP PRYDA LONGREACH FLOOR TRUSSES @ 450 CTS	FLOOR TRUSS BY OTHERS
NOTET2	300 MIN. DEEP PRYDA LONGREACH FLOOR TRUSSES @ 450 CTS	FLOOR TRUSS BY OTHERS

FLOOR TRUSS MANUFACTURER TO ALLOW FOR SUPERIMPOSED DEAD LOAD OF 1kPa AND A LIVE LOAD OF 3kPa FOR ALL EXTERNAL ROOF TOP TERRACE AREAS. REFER ARCHITECTURAL DOCUMENTS FOR FURTHER INFORMATION, TYPICAL.

ROOF FRAMING SCHEDULE		
MARK	SIZE	REMARKS
RT1	240x42 LVL15 @ 600 MAX. CTS.	ROOF JOISTS
RT1	250 DEEP PRYDA LONGREACH ROOF TRUSSES @ 900 CTS	ROOF TRUSS BY OTHERS
RT2	250 DEEP PRYDA LONGREACH PURLIN TRUSSES @ 900 CTS	PURLIN TRUSS BY OTHERS

CONSULTING ENGINEERS

**brogue**

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(03) 9416 2092

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PROJECT NORTH

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REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

**CONSTRUCTION**

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**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

---

**ROOF - FRAMING PLAN**

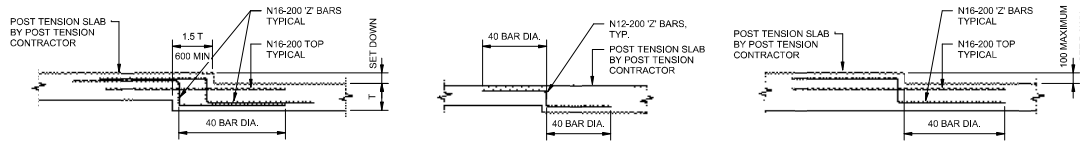
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DATE:	OCT 2020	DESIGNED:	SM
DRAWN:	DH	CHECKED:	TF
SCALE:	1 : 100	SIZE:	A1
Job No.		Drawing No.	
Rev.		Rev.	

**20501 S.240 C1**

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**SETDOWN GREATER THAN 50 AND LESS THAN OR EQUAL TO 200mm**

**SLAB SOFFIT STEP DETAIL**

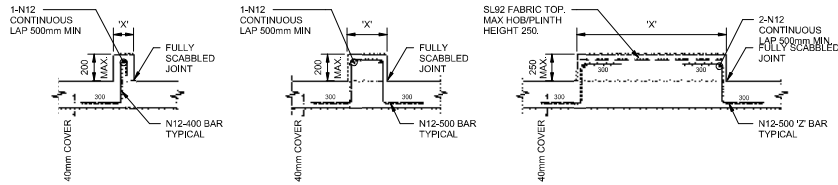
**SLAB STEP WITH CONTINUOUS SOFFIT DETAIL**

**TYPICAL SUSPENDED SLAB STEP DETAILS**

SCALE NTS

**NOTE:**

1. REFER ALSO TO PROJECT NOTES
2. DETAILS APPLY UNLESS OTHERWISE SHOWN.
3. SUSPENDED FLOOR STEP DETAILS MUST BE CONFIRMED AND DOCUMENTED BY POST TENSION CONTRACTOR.



WHERE 'X' = 100 TO 150

WHERE 'X' = 150 < 700

WHERE 'X' > 700

**TYPICAL HOB/PLINTH DETAILS**

SCALE NTS

**NOTE:**

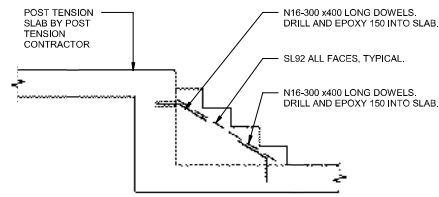
PROVIDE 12mm CHAMFER TO ALL TOP EDGES OF KERB/PLINTH

**PENETRATION THROUGH SUSPENDED BEAM**

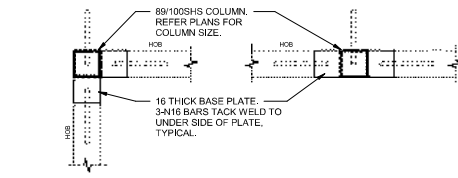
SCALE NTS

**NOTE:**

BUILDER AND PIT CONTRACTOR TO CO-ORDINATE WITH THE SERVICES ENGINEER FOR LOCATION OF ALL CAST IN SERVICES, NO RESPONSIBILITY SHALL BE TAKEN BY THE STRUCTURAL ENGINEER, IF THE SERVICES ARE OVER SEEN.

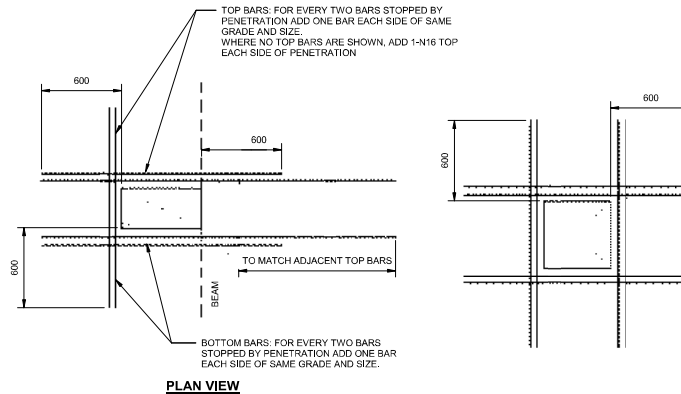


**MASS CONCRETE STAIR DETAIL**

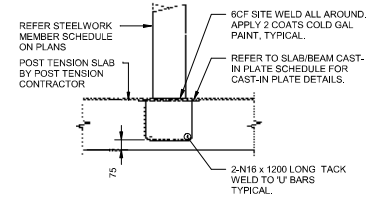


**CORNER CONDITION PLAN VIEW**

**CONTINUOUS CONDITION PLAN VIEW**

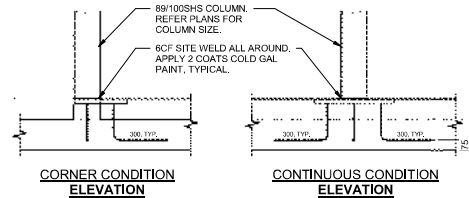


**PLAN VIEW**



**TYPICAL COLUMN BASE PLATE DETAIL CAST INTO SUSPENDED SLAB (U.N.O.)**

NTS



**CORNER CONDITION ELEVATION**

**CONTINUOUS CONDITION ELEVATION**

**TYPICAL 89/100SHS COLUMN BASE PLATE DETAIL CAST INTO HOB (U.N.O.)**

SCALE NTS

**PENETRATIONS IN SLABS - STANDARD DETAIL**

SCALE NTS

**NOTE:**

1. FOR PENETRATIONS LESS THAN 300 x 300mm, BARS TO BE REARRANGED AROUND PENETRATION.
2. FOR PENETRATIONS GREATER THAN 300 x 300mm, BUT LESS THAN 1000 x 1000mm, USE ABOVE DETAILS.
3. FOR PENETRATIONS GREATER THAN 1000 x 1000mm, REFER TO ENGINEERS PLANS.
4. LOCATIONS OF PENETRATIONS TO BE TO THE APPROVAL OF THE ENGINEER.
5. REFER ALSO TO STANDARD NOTES.

SLAB / BEAM CAST - IN PLATE SCHEDULE				
BEAM SIZE	CAST-IN PLATE SIZE			NO. OF N16 17 BARS EQUALLY SPACED F.S.B.W.
	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	
200 UB - 200 PFC - 200 SHS - 200 RHS	16	200	250	2
180 UB - 180 PFC	16	200	200	2
150 UB - 150 PFC - 89 SHS - 150 SHS	16	200	200	2

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C1	05.03.2021	CONSTRUCTION ISSUE	
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P1	16.10.2020	PRELIMINARY ISSUE	

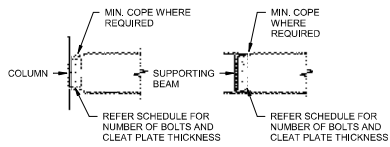
**CONSTRUCTION**

PROPOSED DEVELOPMENT  
1 & 1A STEWART ST,  
BRUNSWICK

**TYPICAL SUSPENDED SLAB DETAILS**

DATE: OCT 2020	DESIGNED: SM
DRAWN: DH	CHECKED: TF
SCALE: 1:20	SIZE: A1
Job No.	Drawing No. Rev.

**20501 S.400 C1**



BEAM TO COLUMN CONNECTION UNLESS DETAILED OTHERWISE  
 BEAM TO SUPPORT BEAM PLATE CONNECTION UNLESS DETAILED OTHERWISE

**WEB SIDE PLATES**

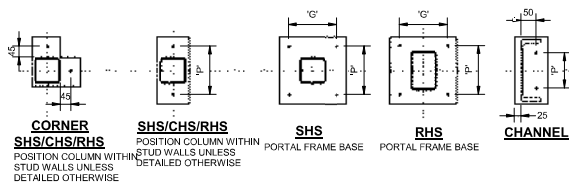
(REFER SCHEDULE BELOW FOR CLEAT PLATE AND BOLT DETAILS)

BEAM SIZE	CLEAT PLATE	No. BOLTS	BEAM SIZE	CLEAT PLATE	No. BOLTS
360 UB	10mm	3	380 PFC	10mm	4
310 UB	10mm	3	300 PFC	10mm	3
250 UB	10mm	2	250 PFC	10mm	3
200 UB	10mm	2	230 PFC	10mm	2
180 UB	10mm	2	200 PFC	10mm	2
150 UB	10mm	2	180 PFC	10mm	2
			150 PFC	10mm	2

**TYPICAL BEAM / RAFTER / COLUMN CONNECTION DETAIL**

SCALE NTS

- NOTE:**
1. ALL STEEL WORK GRADE 300+
  2. ALL EXTERNAL STEEL WORK TO BE HOT DIP GALVANISED.
  3. ALL CLEAT PLATES GRADE 250 U.N.O.
  4. ALL BOLTS M20 8.8/S U.N.O.
  5. ALL WELDS (SP) 6mm CONTINUOUS FILLET (CFW) U.N.O.



**CORNER SHS/CHS/RHS** POSITION COLUMN WITHIN STUD WALLS UNLESS DETAILED OTHERWISE  
**SHS/CHS/RHS** PORTAL FRAME BASE  
**RHS** PORTAL FRAME BASE

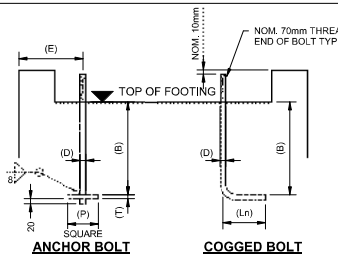
**COLUMN BASE PLATE SCHEDULE**  
 UNLESS DETAILED OTHERWISE

COLUMN SIZE	BOLT		PLATE		MIN. EDGE DISTANCE U.N.O.
	NO	NO	THICKNESS	GROUT	
200x100 RHS	250	190	4	20	25mm
150x100 RHS	240	180	4	20	25mm
125x75 RHS	220	190	4	16	25mm
125x50 RHS	220	190	4	16	25mm
100x75 RHS	190	165	4	16	25mm
100x50 RHS	190	140	4	16	25mm
150 SHS	240	240	4	20	25mm
125 SHS	240	240	4	16	25mm
100 SHS	190	240	4	16	25mm
69 SHS	180	180	4	16	25mm
250 PFC	100	-	2	20	25mm
230 PFC	100	-	2	20	25mm
200 PFC	100	-	2	20	25mm
180 PFC	70	-	2	16	25mm
150 PFC	70	-	2	16	25mm

- NOTE:**
1. ALL WELDS TO BE 6mm E48 CONTINUOUS UNLESS DETAILED OTHERWISE.
  2. COLUMN SHAFTS WITH COLD-SAWN ENDS PROVIDE FULL STRENGTH BUTT WELD.
  3. ALL DIMENSIONS ARE IN MILLIMETRES.
  4. REFER TYPICAL HOLD DOWN BOLT DETAIL FOR BOLT CAST-IN REQUIREMENTS.

**TYPICAL COLUMN BASE PLATE DETAILS**

SCALE NTS UNLESS DETAILED OTHERWISE



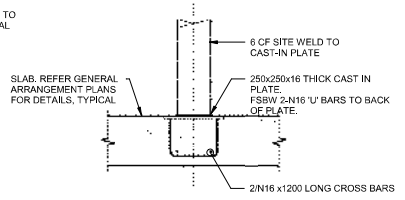
- NOTE:**
1. BOLT GRADE 4.6/S U.N.O.
  2. CAGE BOLTS USING R10-200 LIGS TO HOLD BOLTS INTO POSITIONS TACK WELD

**H.D. BOLT SCHEDULE**

BOLT DIA (D) mm	MINIMUM EMBEDMENT (B) mm	MINIMUM U.N.O. EDGE DISTANCE (E) mm	ANCHOR PLATE DETAILS (P) mm	COG LENGTH (L) mm
12	200	150	50	6
16	300	225	70	10
20	500	300	90	12

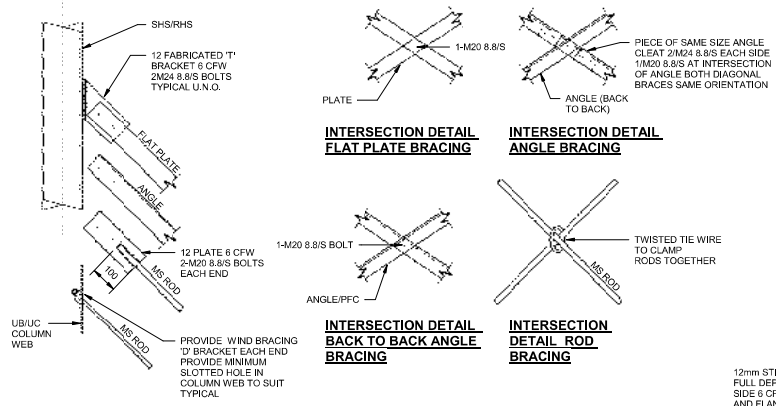
**TYPICAL H.D. BOLTS DETAILS**

SCALE NTS



**ALTERNATIVE COLUMN BASE PLATE CAST INTO SLAB DETAIL**

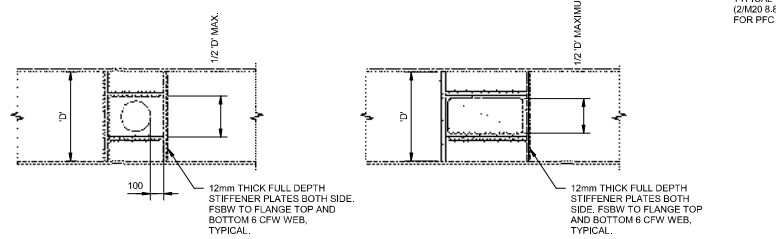
SCALE NTS



**INTERSECTION DETAIL FLAT PLATE BRACING**  
 12 FABRICATED 'T' BRACKET 6 CFW 2/M20 8.8/S BOLTS TYPICAL U.N.O.  
 PLATE  
 1-M20 8.8/S  
 PIECE OF SAME SIZE ANGLE CLEAT 2/M24 8.8/S EACH SIDE 1/M20 8.8/S AT INTERSECTION OF ANGLE BOTH DIAGONAL BRACES SAME ORIENTATION  
 ANGLE (BACK TO BACK)  
**INTERSECTION DETAIL ANGLE BRACING**  
 TWISTED TIE WIRE TO CLAMP RODS TOGETHER  
**INTERSECTION DETAIL BACK TO BACK ANGLE BRACING**  
 PROVIDE WIND BRACING 'D' BRACKET EACH END PROVIDE MINIMUM SLOTTED HOLE IN COLUMN WEB TO SUIT TYPICAL  
 12 PLATE 6 CFW 2-M20 8.8/S BOLTS EACH END  
 1-M20 8.8/S BOLT  
 ANGLE/PFC  
**INTERSECTION DETAIL ROD BRACING**

**TYPICAL BRACING DETAILS**

SCALE NTS

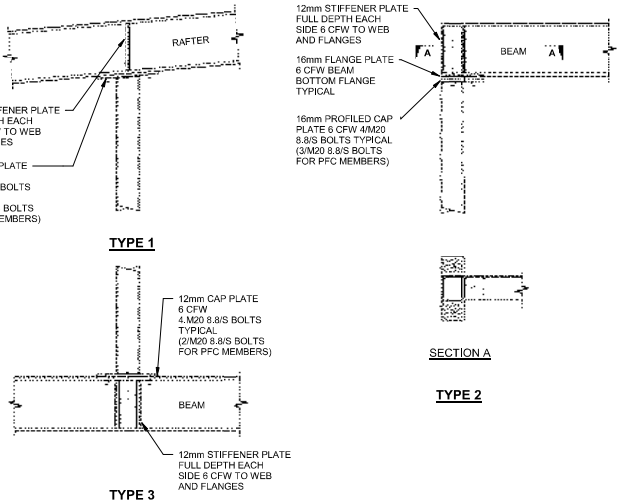


**REFER SERVICES DRAWINGS FOR LOCATIONS SERVICE PIPE PENETRATIONS**  
**REFER SERVICES DRAWINGS FOR LOCATIONS A/C DUCTS PENETRATION**

**NOTE:** WHERE BEAM SIZE RESTRICTS SPACE BETWEEN UNDERSIDE OF BEAM AND TOP OF SUSPENDED CEILING GRID FRAMEWORK.

**TYPICAL STEEL BEAM PENETRATION DETAILS**

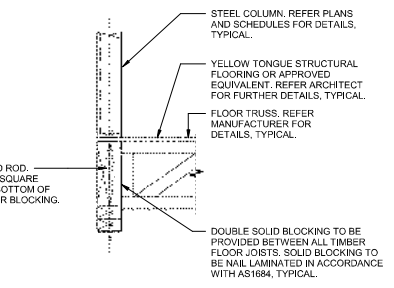
SCALE NTS



**TYPICAL BEAM/RAFTER TO STEEL COLUMN DETAILS U.N.O.**

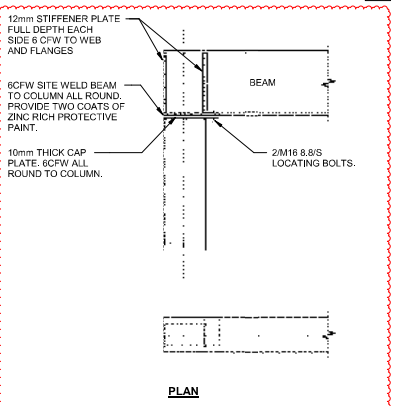
SCALE NTS

**NOTE:** FOR ALL NOMINATED PORTAL FRAMES, 6CFW SITE ALL ROUND BETWEEN BEAM AND COLUMN



**TYPICAL STEEL COLUMN TO SOLID TIMBER BLOCKING DETAIL**

SCALE NTS



**PORTAL FRAME CONNECTION**

SCALE NTS

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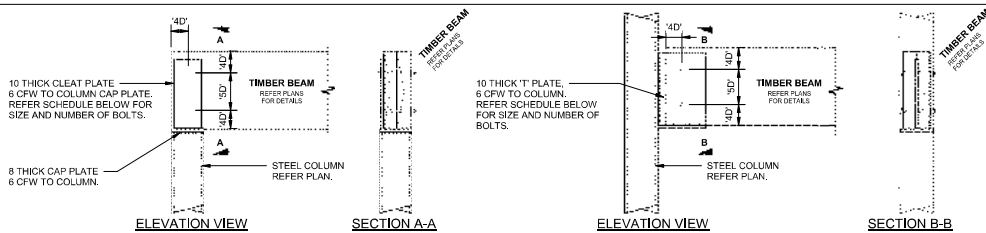
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
 1 & 1A STEWART ST,  
 BRUNSWICK

**TYPICAL STEELWORK DETAILS**

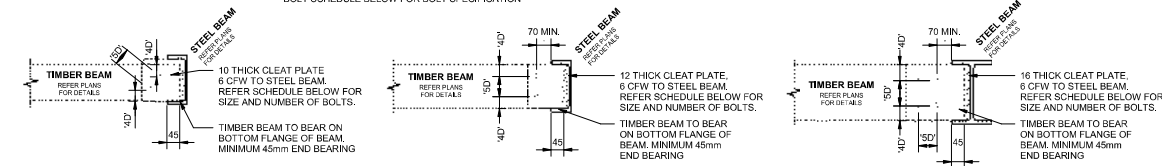
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DRAWN: DH	CHECKED: TF
SCALE: As Indicated	SIZE: A1
Job No.	Drawing No.
	Rev.

**20501 S.415 C2**



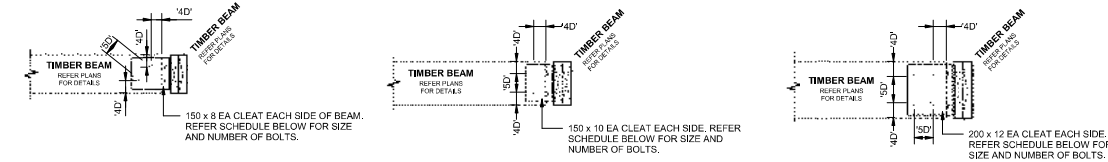
**TYPICAL TIMBER BEAM TO STEEL COLUMN CONNECTION U.N.O.**

SCALE NTS  
1. 'D' DENOTES BOLT DIAMETER. REFER TIMBER BEAM BOLT SCHEDULE BELOW FOR BOLT SPECIFICATION



**TYPICAL TIMBER BEAM TO STEEL BEAM CONNECTION U.N.O.**

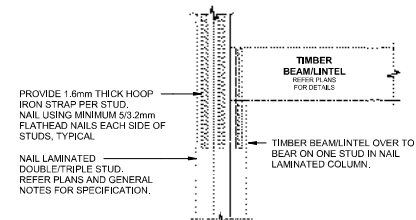
SCALE NTS  
NOTE:  
1. 'D' DENOTES BOLT DIAMETER. REFER TIMBER BEAM BOLT SCHEDULE BELOW FOR BOLT SPECIFICATION



**TYPICAL TIMBER BEAM TO TIMBER BEAM CONNECTION U.N.O.**

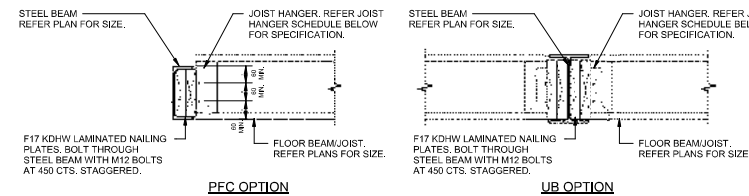
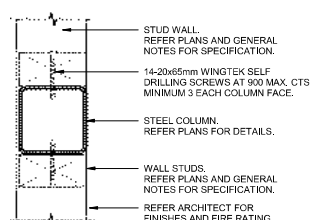
SCALE NTS  
NOTE:  
1. 'D' DENOTES BOLT DIAMETER. REFER TIMBER BEAM BOLT SCHEDULE BELOW FOR BOLT SPECIFICATION

TIMBER BEAM BOLT SCHEDULE	
BEAM DEPTH (mm)	BOLT SPECIFICATION
≤120	2/M10 4.6/S (STAGGERED)
>120, ≤140	2/M10 4.6/S
>140, ≤190	2/M12 4.6/S
>190, ≤240	2/M16 4.6/S
>240, ≤290	4/M16 4.6/S



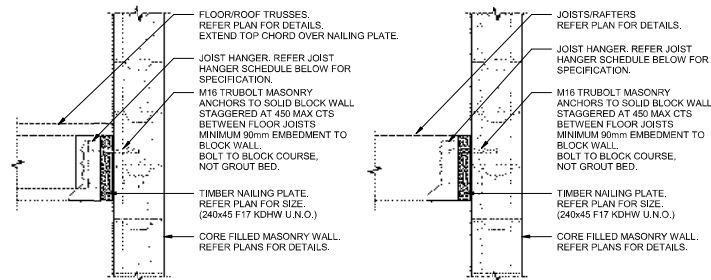
**TYPICAL SILL BEAM DETAIL**

SCALE NTS  
NOTE: MAX SILL BEAM SPAN 3.3m.



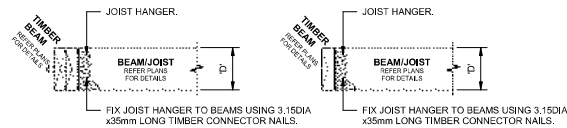
**TYPICAL TIMBER TRUSS/JOISTS TO STEEL BEAM CONNECTION U.N.O.**

SCALE NTS



**NAILING PLATE TO MASONRY WALL DETAIL**

SCALE NTS



**JOIST HANGER SCHEDULE**

BEAM/JOIST DEPTH 'D' (mm)	JOIST HANGER TYPE
90	FBW90
120	FBW120
140	FBW140
190	FBW190
220-290	FBW220

**NOTE:**

- 'W' DENOTES WIDTH OF MEMBER. REFER PLANS FOR MEMBER SCHEDULES.
- REFER MANUFACTURER FOR NUMBER OF NAILS PER SIDE AND TAB.
- ADOPT GALVANISED HANGERS AND NAILS FOR MEMBERS EXPOSED TO EXTERNAL CONDITIONS.

**TYPICAL JOIST HANGER CONNECTION DETAIL (U.N.O.)**

SCALE NTS

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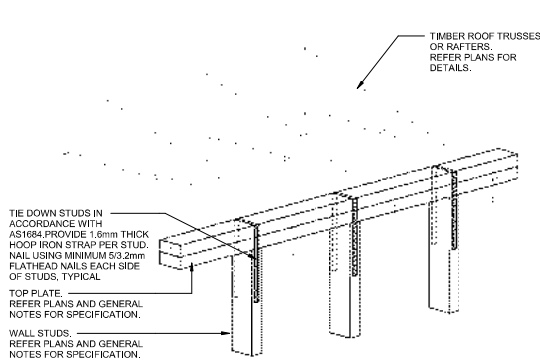
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

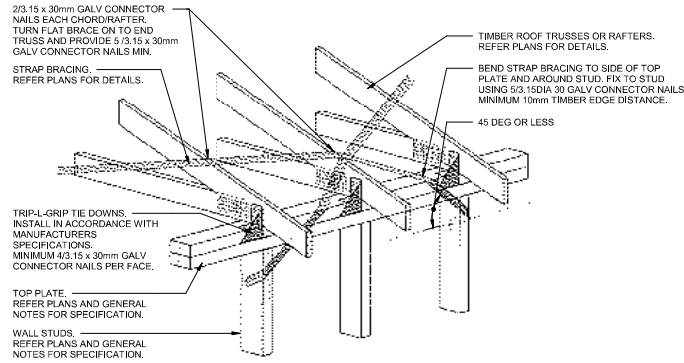
**TYPICAL TIMBER FRAMING DETAILS - SHEET 1**

DATE: OCT 2020	DESIGNED: SM
DRAWN: DH	CHECKED: TF
SCALE: As Indicated	SIZE: A1
Job No.	Drawing No. Rev.

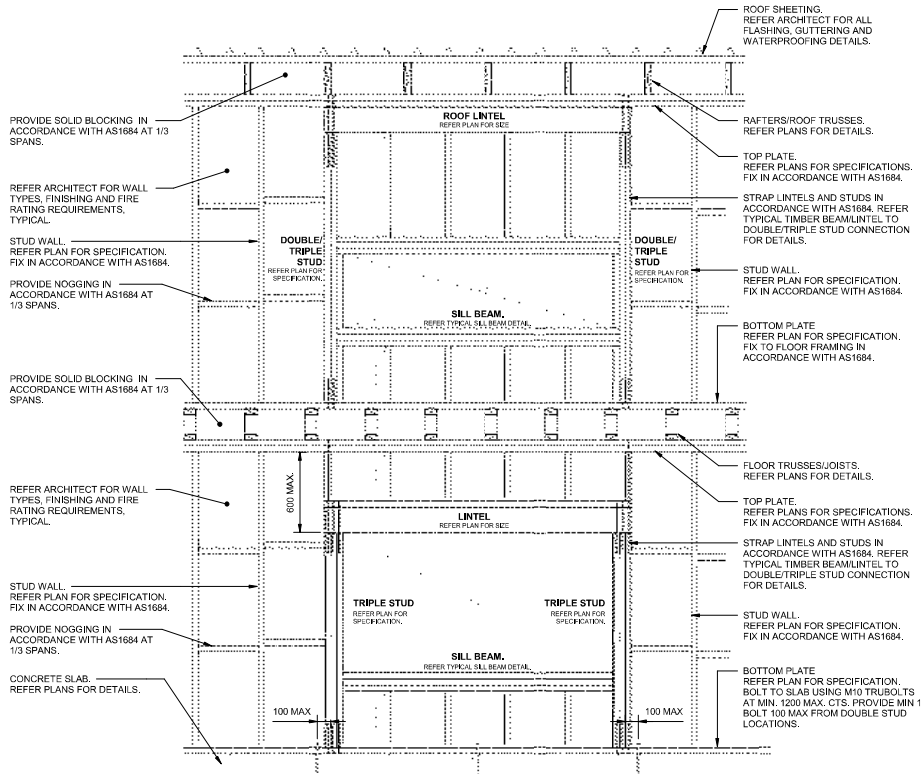
**20501 S.420 C1**



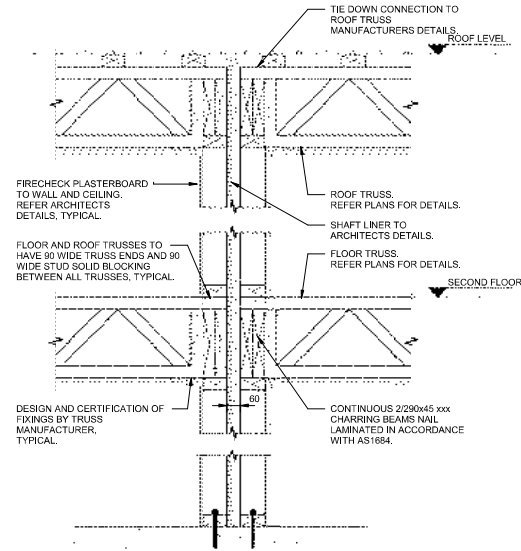
**TYPICAL TOP PLATE TIE DOWN DETAIL**  
SCALE NTS



**TYPICAL ROOF FRAMING TO STUD WALL DETAIL**  
SCALE NTS



**TYPICAL EXTERNAL LOAD-BEARING STUD WALL DETAIL**  
SCALE NTS



**TYPICAL DOUBLE STUD PARTITION WALL DETAIL**  
SCALE NTS

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**CONSTRUCTION**

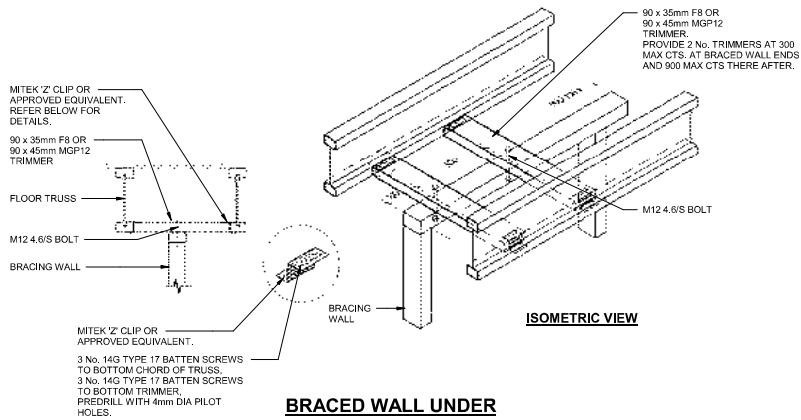
PROPOSED DEVELOPMENT  
1 & 1A STEWART ST,  
BRUNSWICK

TYPICAL TIMBER FRAMING DETAILS - SHEET 2 (MULTI-STOREY)

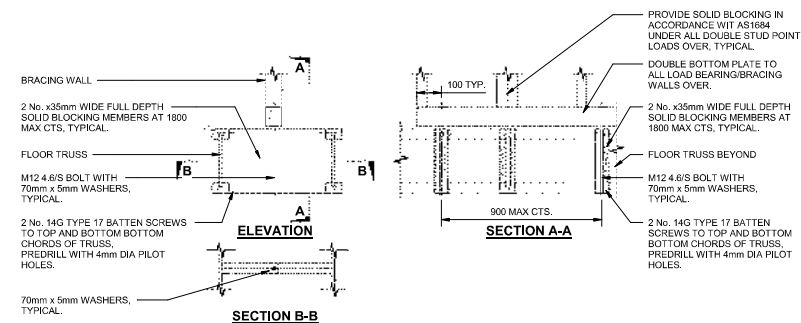
DATE:	OCT 2020	DESIGNED:	SM
DRAWN:	DH	CHECKED:	TF
SCALE:	As Indicated	SIZE:	A1
Job No.		Drawing No.	Rev.

**20501 S.421 C1**

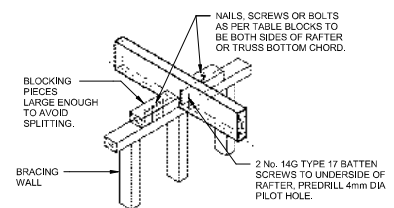
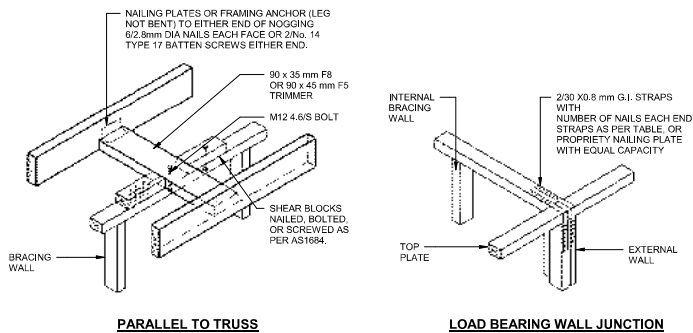




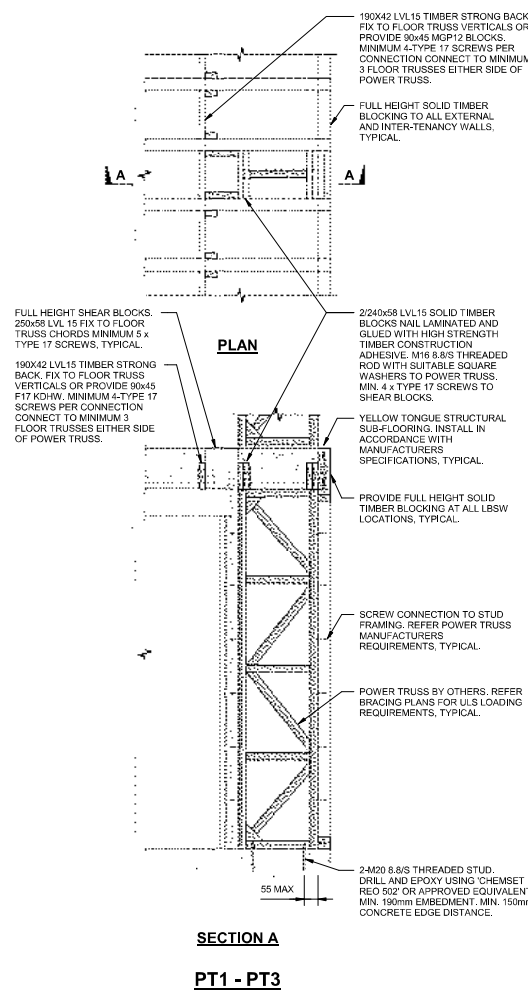
**BRACED WALL UNDER PARALLEL TO TRUSS**



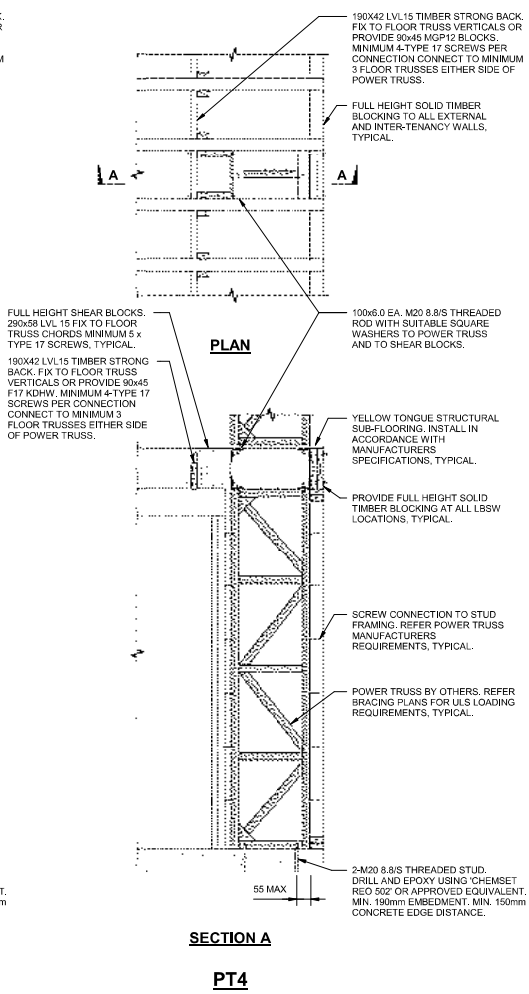
**BRACED WALL OVER PARALLEL TO TRUSS**



**LOAD BEARING STUD WALL TO TRUSS DETAILS**  
NTS. REFER AS1684 FOR ADDITIONAL DETAILS



**SECTION A**  
**PT1 - PT3**



**SECTION A**  
**PT4**

**POWER TRUSS WALL BRACING DETAILS**  
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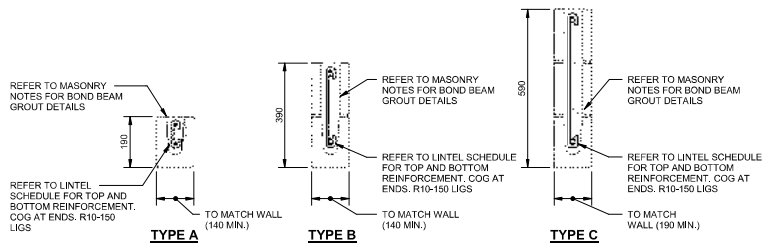
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

**TYPICAL WALL BRACING DETAILS - SHEET 2**  
- MULTISTOREY

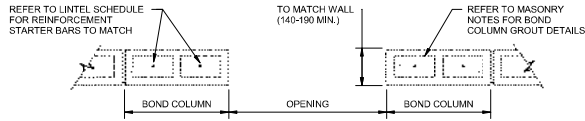
DATE	DRAWN	DESIGNED	CHECKED	SIZE	REV.
OCT 2020	DH	SM	TF	A1	
Job No.	Drawing No.	Rev.			

**20501 S.426 C1**



**BOND BEAM LINTELS**

SCALE NTS



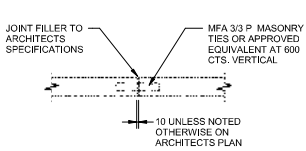
**BOND COLUMN**

SCALE NTS

BOND BEAM LINTEL SCHEDULE			
CLEAR SPAN (m)	LINTEL SIZE		BOND COLUMN ONE BLOCK EACH SIDE OF OPENING. GROUT FILL BOTH CORES
	TYPE	REINFORCEMENT	
0 - 0.9	A	1-N12 TOP & BTM	-
0.9 - 1.20	B	2-N16 TOP & BTM	-
1.20 - 2.40	C	2-N20 TOP & BTM	-
2.40 - 3.00	C	2-N18 TOP & BTM	2-N16

**NOTE:**

- 200mm MIN. END BEARING FOR LINTELS, TYPICAL.
- TABLE BASED ON LINTELS SUPPORTING MASONRY ONLY AND FULL ARCHING OF MASONRY.
- REFER TO ARCHITECT'S DRAWINGS FOR LINTEL LOCATIONS.



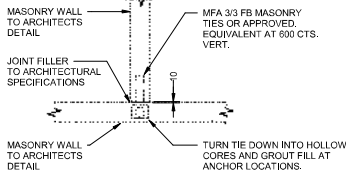
**PLAN VIEW**

**VERTICAL CONTROL JOINT**

SCALE NTS

**NOTE:**

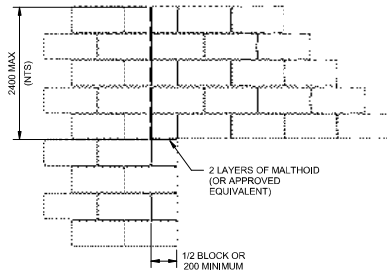
- WALL REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH JOINT.
- PROVIDE CONTROL JOINTS AT 6000mm MAXIMUM CTS. U.N.O.



**PLAN VIEW**

**TYPICAL CONTROL JOINT AT WALL INTERSECTION**

SCALE NTS



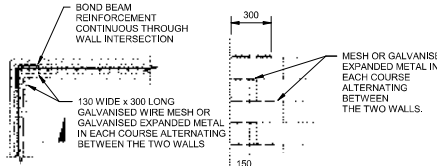
**ELEVATION**

**MASONRY CONTROL JOINT AT DOOR/WINDOW HEADER**

SCALE NTS

**NOTE:**

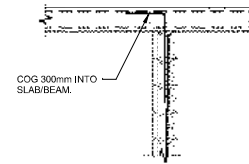
- WHERE NO VERTICAL CONTROL JOINT HAS BEEN SPECIFIED AT DOOR OR WINDOW HEAD, THEN USE TWO LAYERS OF BED JOINT REINFORCEMENT, ONE LAYER IN EACH JOINT ABOVE THE LINTEL, EXTEND 1000 PAST EACH DOOR/WINDOW JAMB.
- MAXIMUM CENTRES FOR VERTICAL CONTROL JOINTS SHALL BE 6000 UNLESS NOTED OTHERWISE ON PLANS.



**PLAN AT CORNER**

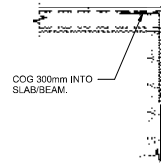
**REINFORCED BLOCKWORK DETAILS AT WALL INTERSECTION**

SCALE NTS



**REINFORCED LOAD BEARING MASONRY WALL DETAIL**

SCALE NTS

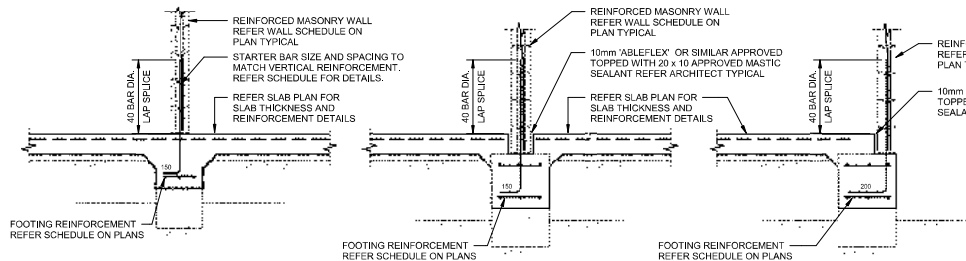


**REINFORCED LOAD BEARING MASONRY WALL DETAIL**

SCALE NTS

**MASONRY NOTES:**

- ALL MASONRY TIES SHALL BE SUPPLIED BY 'BRUNSWICK SALES' OR AN APPROVED EQUIVALENT AND FIXED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- CLAY BRICK - DENOTES MASONRY WALL: CLAY BRICK OR CONCRETE BLOCKWORK, AS SPECIFIED BY THE ARCHITECT.
- REFER TO ARCHITECT FOR SPECIFICATION OF COMPRESSIBLE BACKING ROD AND JOINT SEALANT OR FIRE RATED FILLER AT CONTROL JOINTS.
- WHERE MASONRY ANCHORS ABRIDGE HOLLOW CORES, THE HOLLOW CORES IMMEDIATELY ABOVE AND BELOW THE ANCHOR SHALL BE GROUT FILLED.



**REINFORCED BLOCKWORK WALL TO FOOTING DETAILS**

SCALE NTS

M.S. ANGLE LINTEL SCHEDULE, U.N.O.		
UP TO SPAN (mm)	90 HOLLOW BLOCKWORK	BRICKWORK
1500	75 x 75 x 6 EA	90 x 90 x 6 EA
2000	90 x 90 x 8 EA	90 x 90 x 8 EA
2500	150 x 90 x 8 EA	150 x 90 x 8 UA
3000	150 x 90 x 10 UA	150 x 90 x 10 UA

**LINTEL NOTES:**

- PROVIDE 200mm MINIMUM BEARING EACH END
- LONG LEG OF ANGLE VERTICAL
- ABOVE LINTEL SIZES ASSUME MASONRY ARCHING IS POSSIBLE, AND NO OTHER VERTICAL LOADS ON WALL EXCEPT FOR SELF WEIGHT.
- LINTELS EXCEPT FOR INTERNAL WALLS TO BE HOT DIP GALVANISED.

REVISION	DATE	DESCRIPTION

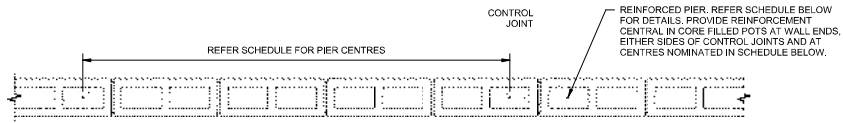
**CONSTRUCTION**

PROPOSED DEVELOPMENT  
1 & 1A STEWART ST,  
BRUNSWICK

**TYPICAL MASONRY DETAILS - LOAD BEARING**

DATE: OCT 2020	DESIGNED: SM
DRAWN: DH	CHECKED: TF
SCALE: 1:20	SIZE: A1
Job No.	Drawing No.

20501 S.430 C1

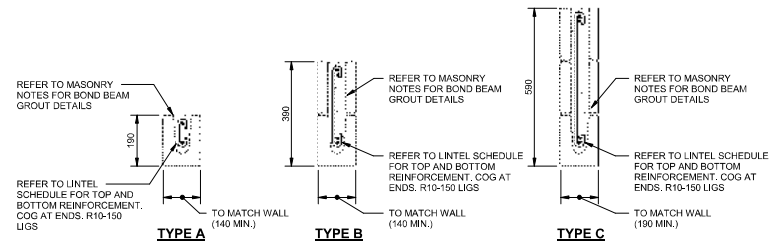


**TYPICAL NON-LOAD BEARING WALL DETAIL**

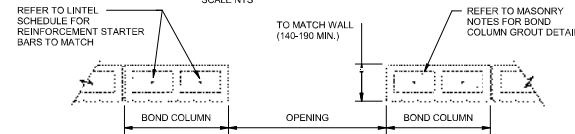
INTERNAL NON-LOAD BEARING BLOCK WALL SCHEDULE		
MAX HEIGHT	BLOCK SIZE	DETAILS
0-2400	140 THICK BLOCK	UNREINFORCED, NO CORES FILLED
2400-3100	140 THICK BLOCK	REINFORCED PIERS (N16 VERT. WITH STARTER BARS) AT ENDS OF WALL, EITHER SIDE OF CONTROL JOINTS AND 1800mm MAX CTS (EVERY 8th CORE)
0-3350	190 THICK BLOCK	UNREINFORCED, NO CORES FILLED
3350-4300	140 THICK BLOCK	REINFORCED PIERS (N16 VERT. WITH STARTER BARS) AT ENDS OF WALL, EITHER SIDE OF CONTROL JOINTS AND 1800mm MAX CTS (EVERY 8th CORE)

**NOTE:**

- WHERE NOMINATED, CORE FILL POTS USING 20MPa CONCRETE, 10mm MAX. AGGREGATE.
- REFER BELOW FOR STARTER BAR AND SLAB THICKENING REQUIREMENTS FOR NON-LOAD BEARING BLOCK WALLS.
- MAXIMUM HEIGHTS NOMINATED IN TABLE ABOVE ARE FOR "ASH GREY BORAL BLOCKWORK" ONLY.
- REFER ARCHITECTS DOCUMENTATION FOR ALL NON-LOAD BEARING BLOCKWORK LOCATIONS AND SPECIFICATIONS.
- FIRE RATING AND ACOUSTIC REQUIREMENTS TO ARCHITECT AND BUILDING SURVEYORS REQUIREMENTS.
- REFER BORAL MANUAL FOR ALL SPECIFICATIONS AND INSTALLATION REQUIREMENTS, TYPICAL.



**BOND BEAM LINTELS**

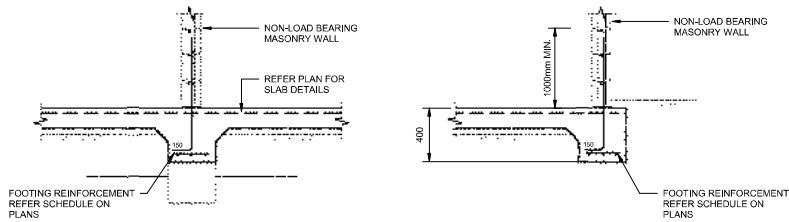


**BOND COLUMN**

CLEAR SPAN (m)	LINTEL SIZE		BOND COLUMN
	TYPE	REINFORCEMENT	ONE BLOCK EACH SIDE OF OPENING, GROUT FILL BOTH CORES
0 - 0.8	A	1-N12 TOP & BTM	-
0.8 - 1.20	B	2-N16 TOP & BTM	-
1.20 - 1.80	B	2-N16 TOP & BTM	-
1.80 - 2.40	C	2-N20 TOP & BTM	-
2.40 - 3.00	C	2-N16 TOP & BTM	2-N16

**NOTE:**

- 200mm MIN. END BEARING FOR LINTELS, TYPICAL.
- TABLE BASED ON LINTELS SUPPORTING MASONRY ONLY AND FULL ARCHING OF MASONRY.
- REFER TO ARCHITECTS DRAWINGS FOR LINTEL LOCATIONS.

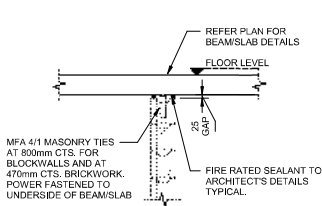


**RAFT SLAB INTERNAL BEAM DETAIL**

**CAR PARK REINFORCEMENT DETAIL**

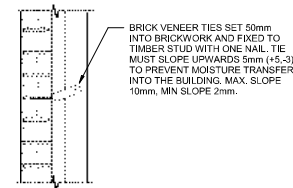
**INTERNAL NON LOAD BEARING BLOCKWALL TO FOOTING DETAILS**

SCALE NTS

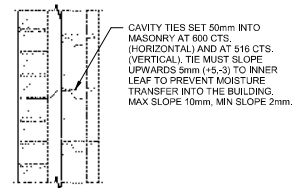


**NON-LOAD BEARING MASONRY WALL TO UNDERSIDE OF CONCRETE BEAM/SLAB**

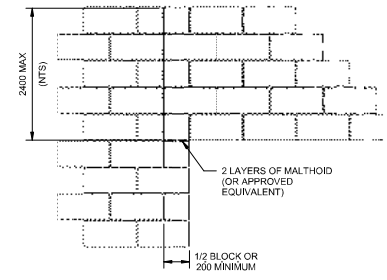
SCALE NTS



**VENEER TIES**



**VENEER TIES**



**ELEVATION**

**MASONRY CONTROL JOINT AT DOOR/WINDOW HEADER**

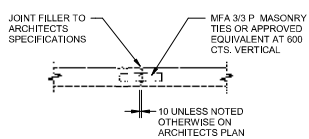
SCALE NTS

**NOTE:**

- WHERE NO VERTICAL CONTROL JOINT HAS BEEN SPECIFIED AT DOOR OR WINDOW HEAD, THEN USE TWO LAYERS OF BED JOINT REINFORCEMENT, ONE LAYER IN EACH JOINT ABOVE THE LINTEL, EXTEND 1000 PAST EACH DOOR/WINDOW JAMB.
- MAXIMUM CENTRES FOR VERTICAL CONTROL JOINTS SHALL BE 6000 UNLESS NOTED OTHERWISE ON PLANS.

**TYPICAL MASONRY TIE DETAIL**

SCALE NTS

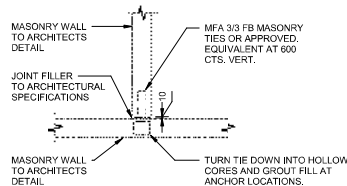


**VERTICAL CONTROL JOINT**

SCALE NTS

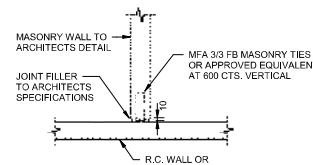
**NOTE:**

- WALL REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH JOINT. PROVIDE CONTROL JOINTS AT 6000mm MAX. CTS, U.N.O.



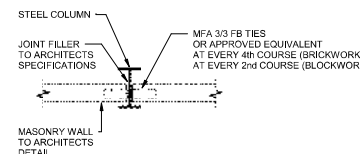
**TYPICAL CONTROL JOINT AT WALL INTERSECTION**

SCALE NTS



**MASONRY WALL TO CONCRETE / PRECAST WALL**

SCALE NTS



**MASONRY WALL TO COLUMN**

SCALE NTS

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PROJECT NORTH

REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

**CONSTRUCTION**

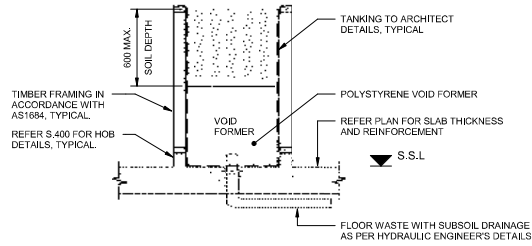
**PROPOSED DEVELOPMENT**  
 1 & 1A STEWART ST,  
 BRUNSWICK

**TYPICAL MASONRY DETAILS (NLB)**

DATE:	OCT 2020	DESIGNED:	SM
DRAWN:	DH	CHECKED:	TF
SCALE:	As Indicated	SIZE:	A1
Job No.		Drawing No.	

**20501 S.431 C1**

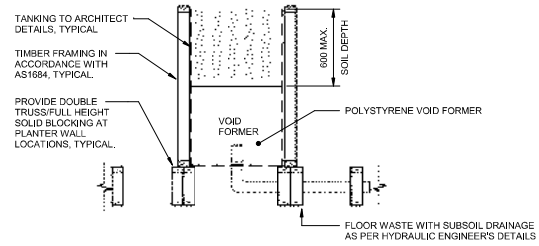
DESIGN LOADING  
4 KPa



REFER ARCHITECT'S DRAWINGS FOR EXTENT AND LOCATION.

**TYPICAL PLANTER BOX DETAIL**  
SUSPENDED SLAB  
SCALE NTS

DESIGN LOADING  
4 KPa



REFER ARCHITECT'S DRAWINGS FOR EXTENT AND LOCATION.

**TYPICAL PLANTER BOX DETAIL**  
ON FLOOR TRUSS  
SCALE NTS

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PROJECT NORTH

REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

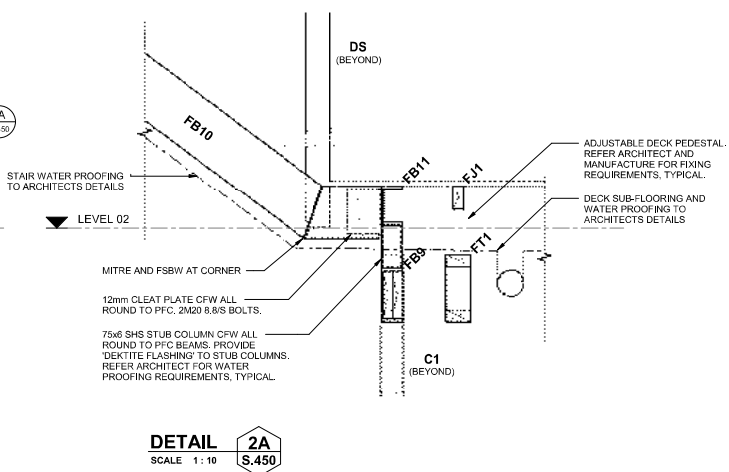
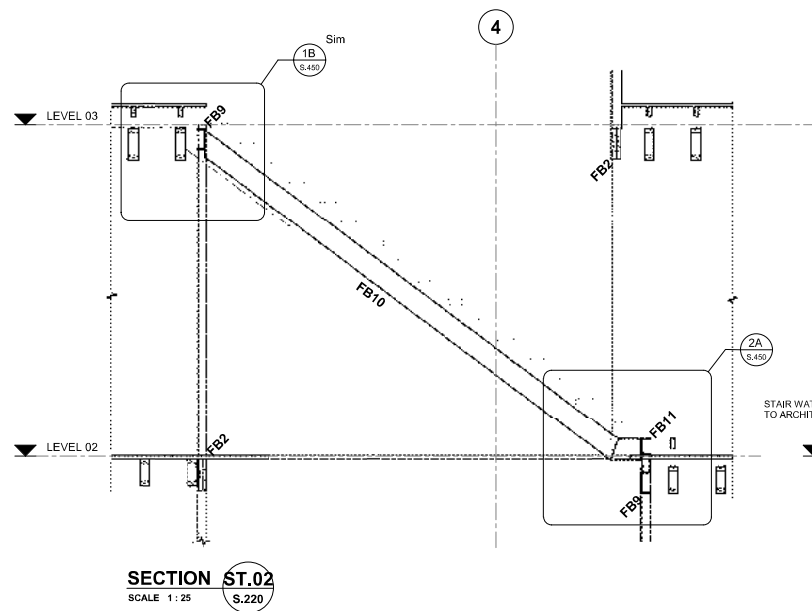
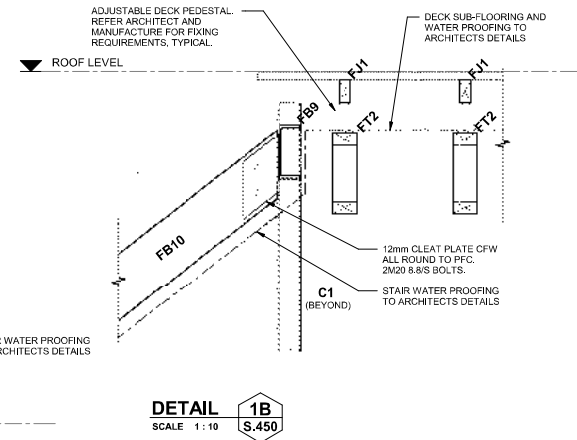
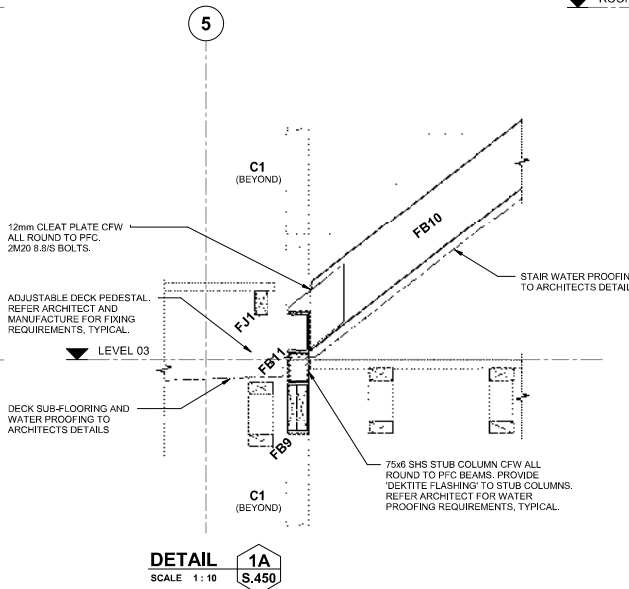
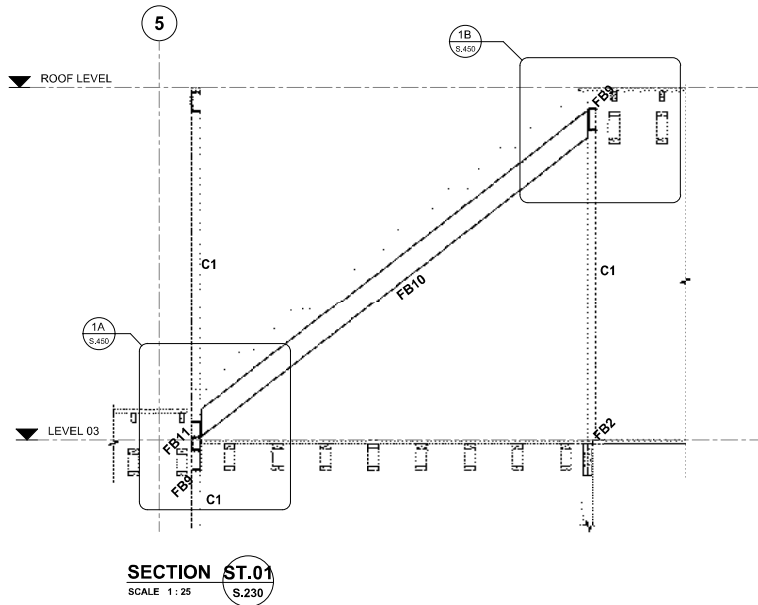
**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
1 & 1A STEWART ST,  
BRUNSWICK

TYPICAL PLANTER BOX DETAILS

DATE:	OCT 2020	DESIGNED:	SM
DRAWN:	DH	CHECKED:	TF
SCALE:	1:20	SIZE:	A1
Job No.		Drawing No.	Rev.

**20501 S.440 C1**



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PROJECT NORTH

REVISION	ISSUE	DATE	DESCRIPTION
C1	05.01.2021	CONSTRUCTION ISSUE	

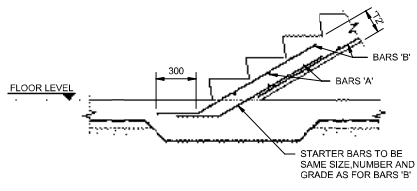
**CONSTRUCTION**

PROPOSED DEVELOPMENT  
1 & 1A STEWART ST,  
BRUNSWICK

EXTERNAL STAIR SECTIONS AND DETAILS

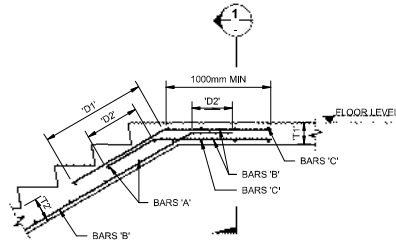
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DRAWN: DH	CHECKED: TF
SCALE: As Indicated	SIZE: A1
Job No.	Drawing No.

**20501 S.450 C1**



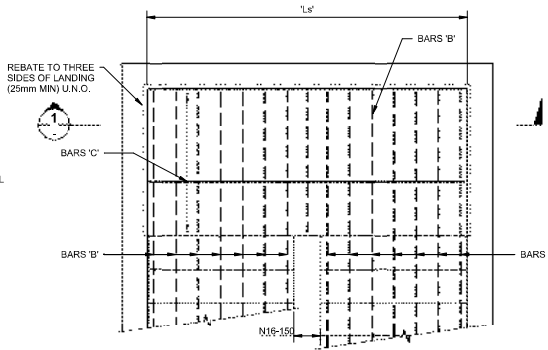
**TYPICAL BOTTOM STAIR FLIGHT TO SLAB ON GROUND DETAIL**

SCALE NTS



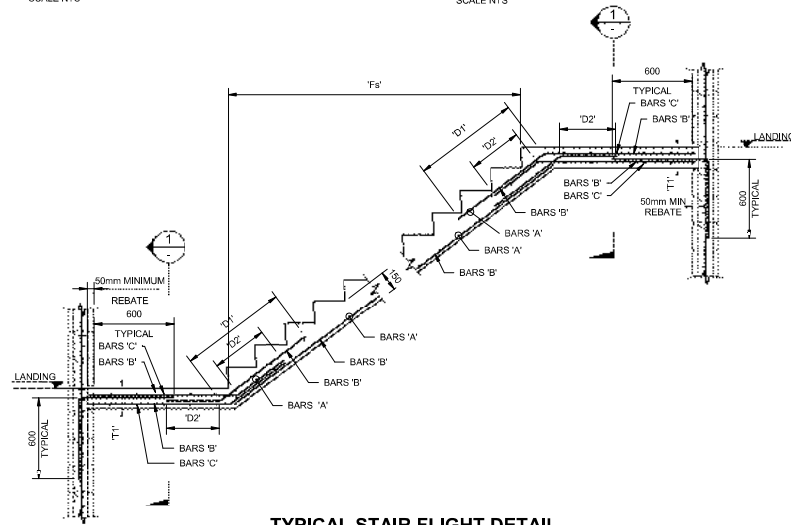
**TYPICAL TOP STAIR FLIGHT TO SUSPENDED FLOOR DETAIL**

SCALE NTS



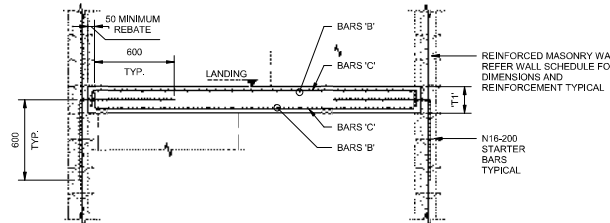
**TYPICAL STAIR LANDING PLAN**

NTS

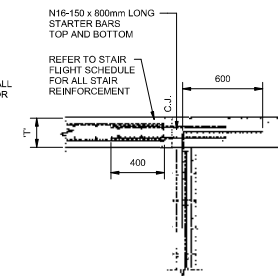


**TYPICAL STAIR FLIGHT DETAIL**

SCALE NTS

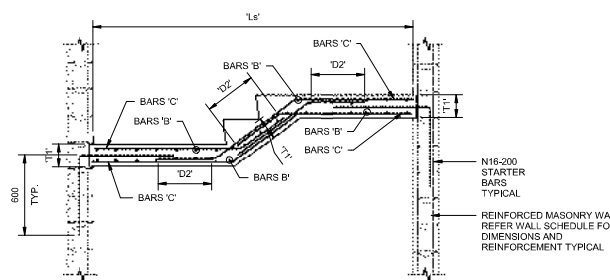


**TYPICAL SECTION THROUGH LANDING AT BLOCKWORK WALL**



**STAIR LANDING AT DOOR**

SCALE NTS  
FLOOR SLAB CONSTRUCTED FIRST



**TYPICAL SECTION THROUGH STEPPED LANDING AT BLOCKWORK WALL**

STAIR FLIGHT/LANDING SCHEDULE									
LANDING SPAN (mm) 'LS' (MAX)	STAIR FLIGHT (mm) 'FS' (MAX)	LANDING THICKNESS 'T1'	THROAT THICKNESS 'T2'	REINFORCEMENT			DIMENSIONS WHERE APPLICABLE		REMARKS
				BARS 'A'	BARS 'B'	BARS 'C'	'D1'	'D2'	
2400	4500	180	180	N12-300	N16-150	N16-150	0.4 X 'FS'	600	-
3200	4500	180	180	N12-300	N16-150	N16-150	0.4 X 'FS'	600	-
4800	4500	220	180	N12-300	N16-125	N16-125	0.4 X 'FS'	600	-

- NOTE:**
- BARS 'B' MINIMUM 7-N16.
  - MINIMUM STAIR FLIGHT THROAT THICKNESS 180mm U.N.O.
  3. BAR LAP 'D1' MINIMUM 1000mm U.N.O.

REVISION	ISSUE	DATE	DESCRIPTION
C1	05.03.2021	CONSTRUCTION ISSUE	
P2	01.12.2020	PRICING ISSUE	
P1	16.10.2020	PRELIMINARY ISSUE	

**CONSTRUCTION**

**PROPOSED DEVELOPMENT**  
 1 & 1A STEWART ST,  
 BRUNSWICK

**CONCRETE STAIR (INTO BLOCKWORK) DETAILS**

DATE: OCT 2020	DESIGNED: SM
DRAWN: DH	CHECKED: TF
SCALE: 1:20	SIZE: A1
Job No.	Drawing No.
	Rev.

**20501 S.451 C1**