A3

54 & 54A BERESFORD DRIVE, CAPE WOOLAMAI

STRUCTURAL DRAWINGS

GENERAL NOTES:

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
G2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
G3. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION OR FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
G4. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND ADJACENT STRUCTURES IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
G5. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

STRUCTURAL STEELWORK NOTES:

S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100, AS/NZS 4600, AS/NZS1554 AND AS/NZS HB62 EXCEPT WHERE VARIED BY THE CONTRACT.
S2. UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE:
- GRADE 300 PLUS FOR HOT ROLLED SECTIONS
- GRADE 300 PLUS FOR MERCHANT BAR (ROUND SQUARE AND FLAT)
- GRADE 250 FOR PLATES
- GRADE C350 FOR RHS, SHS AND CHS

S3. COMMERCIAL GRADE BOLTS SHALL CONFORM TO AS/NZS 1111 AND AS4100.
HIGH STRENGTH STRUCTURAL BOLTS SHALL CONFORM TO AS/NZS1252 AND AS4100.
S4. WELDS SHALL CONFORM TO AS/NZS 1554 AND WELDING ELECTRODES TO AS/NZS 1553.
S5 ALL DETAILS, GAUGE LINES, ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH AISC DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND AISC STANDARDISED STRUCTURAL CONNECTIONS.
S6. UNLESS NOTED OTHERWISE, ALL WELDS SHALL BE 6mm CONTINUOUS FILLET FROM E48XX ELECTRODES. ALL WELDS SHALL BE CATEGORY SP.
S7. ALL BOLTS SHALL BE GRADE 8.8/S UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE M20 UNLESS NOTED OTHERWISE.
S8. ALL CLEATS AND GUSSETS SHALL BE 10MM PLATE UNLESS
S9. NOTED OTHERWISE.
S10. FOR WELDS AND BOLTS OTHER THAN AS NOTED ABOVE, THE FOLLOWING NOTATION IS USED:
WELDS - SYMBOLS IN ACCORDANCE WITH AS1101.3.
BOLTS - DESIGNATED BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE.
S11. LOAD INDICATING WASHERS SHALL BE USED TO VERIFY TIGHTENING OF BOLTS IN TF AND TB CONNECTIONS.
S12. ALL HOT DIPPED GALVANISED MEMBERS SHALL BE PROVIDED WITH VENT AND DRAINAGE HOLES IN ACCORDANCE WITH THE GALVANISERS RECOMMEDATIONS.
S13. WHERE MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE CURVED, BENT OR ROLLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS REQUIRED TO ACHIEVE THE REQUIRED SHAPES WITHOUT LOCALISED DISTORTION OF THE MEMBERS.
S14. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE, UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
S15. STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH AS/NZS 2312 :
- ALL STEELWORK, BOLTS & FASTENERS :
HOT DIP GALVANISED

CONCRETE NOTES:

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
C2. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
C3. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.
C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.
C6. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER.
C7. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
C8. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS. THE CHAIR MATERIAL SHALL SUIT THE EXPOSURE CONDITIONS.
C9. REINFORCEMENT SYMBOLS:
N NORMAL DUCTILITY CLASS HOT ROLLED DEFORMED BARS TO AS/NZS 4671, fsy=500MPa
R STRUCTURAL GRADE PLAIN ROUND BAR TO AS1302 WITH fsy=250MPa
F HARD DRAWN STEEL WIRE REINFORCING FABRIC TO AS1304 WITH fsy=500MPa
C10. FORMWORK AND BACK PROPPING SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS3610
C11. CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:
- AS PER THE DRAWINGS

C12. CALCIUM CHLORIDE IS NOT PERMITTED TO BE USED.
C13. ALL CONCRETE SHALL BE CURED WITH A PROCEDURE APPROVED BY THE ENGINEER.
C14. MINIMUM CONCRETE COVER TO REINFORCEMENT SHALL BE AS PER THE DRAWINGS.

ISSUED FOR CONSTRUCTION

No.	Date	Details	By	Apprvd.
0	23/08/2011	ISSUED FOR CONSTRUCTION	PRD	PRD

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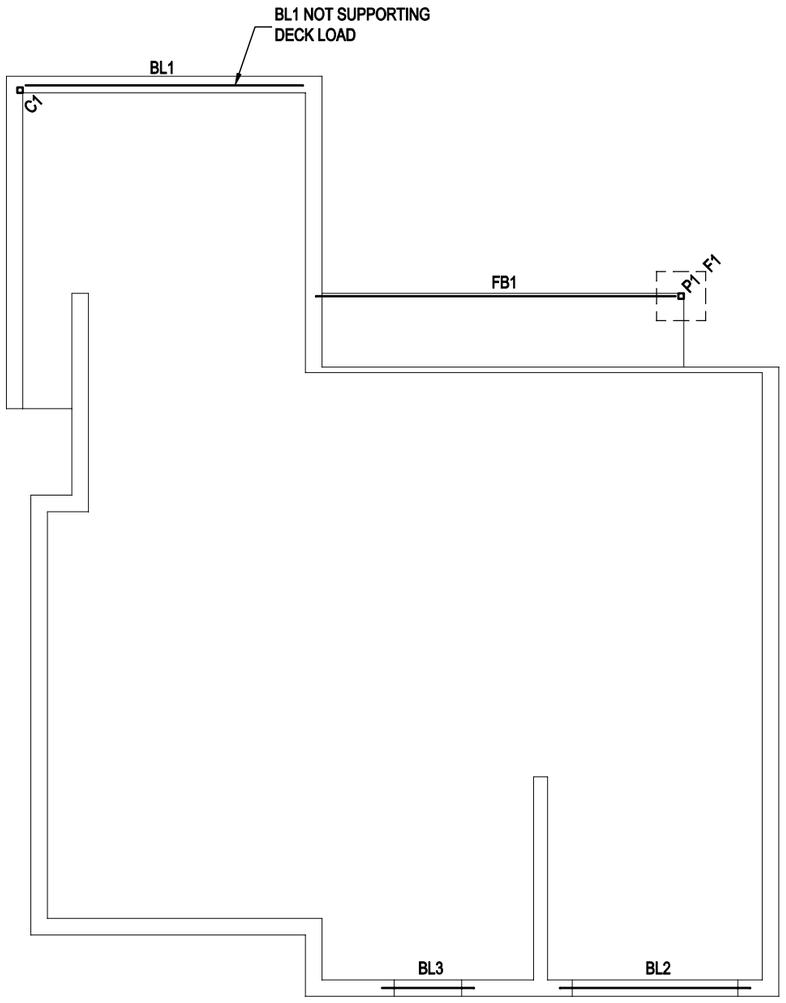
PROJECT: 54 & 54A BERESFORD DRIVE CAPE WOOLAMAI ADDITIONS

DRAWN	DESIGNED
P.DEERY	P.DEERY
SIGNED	SIGNED
DATE	DATE

DRAWING TITLE: STANDARD NOTES

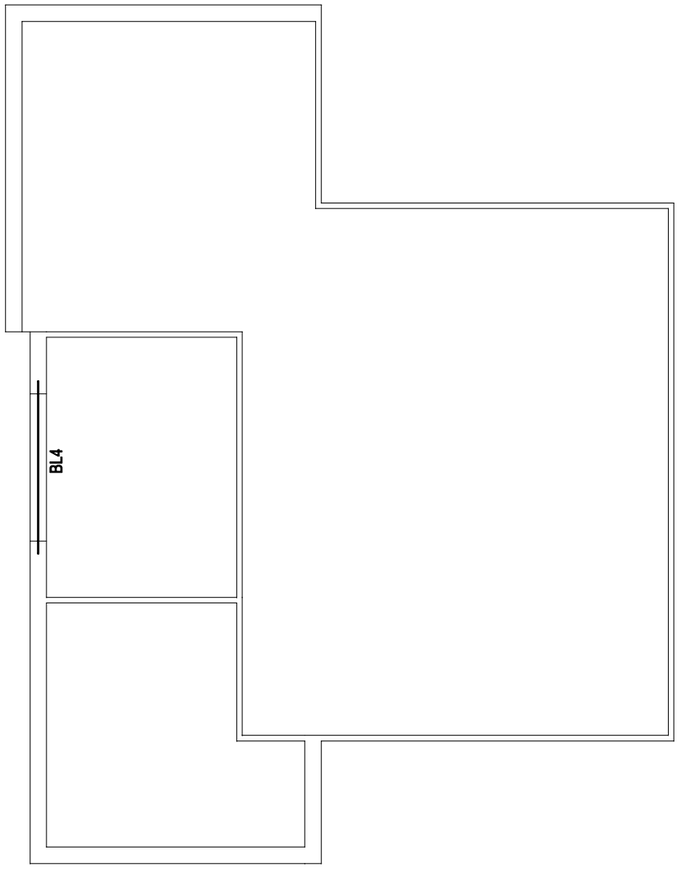
PROJECT NO.: 117.05
SCALE: NTS
DRAWING NO.: S01 REV: 0

A3



FIRST FLOOR STRUCTURAL FRAMING PLAN

SCALE 1:100



UPPER ROOF STRUCTURAL FRAMING PLAN

SCALE 1:100

STRUCTURAL MEMBER SCHEDULE

MARK	SIZE	REMARKS
P1	89 x 5.0 SHS	GALVANISED STEEL POST
C1	89 x 5.0 SHS	GALVANISED STEEL COLUMN
FB1	250 x 90 PFC	STEEL FLOOR BEAM
BL1	250 x 12 PLATE VERTICAL 250 x 10 PLATE HORIZONTAL	BRICKWORK "T" LINTEL
BL2	150 x 10 PLATE VERTICAL 250 x 10 PLATE HORIZONTAL	BRICKWORK "T" LINTEL
BL3	100 x 8 PLATE VERTICAL 250 x 10 PLATE HORIZONTAL	BRICKWORK "T" LINTEL
BL4	100 x 10 PLATE VERTICAL 250 x 10 PLATE HORIZONTAL	BRICKWORK "T" LINTEL

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PROJECT: 54 AND 54A BERESFORD DRIVE
CAPE WOOLAMAI
ADDITIONS

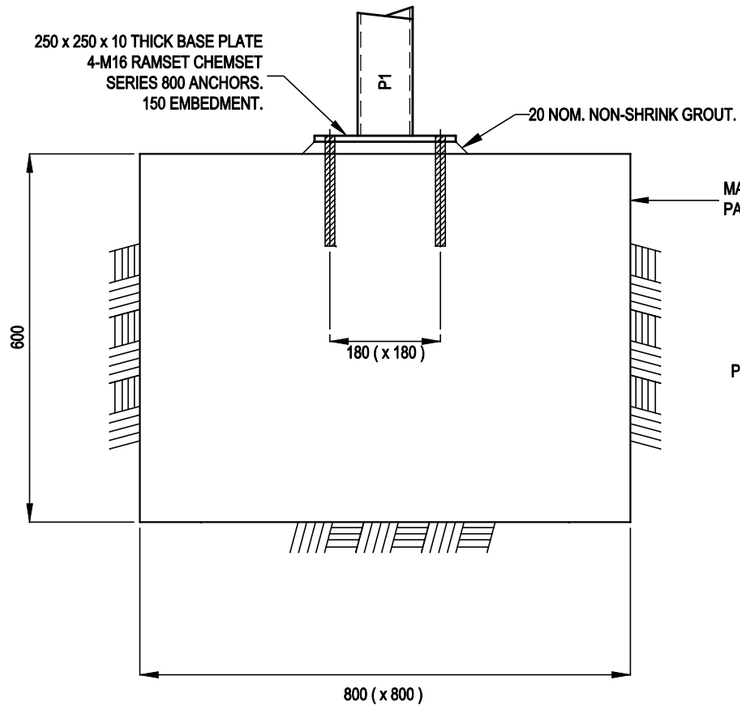
DRAWN P.DEERY | DESIGNED P.DEERY
SIGNED | SIGNED
DATE | DATE

ISSUED FOR CONSTRUCTION

DRAWING TITLE: FIRST FLOOR AND UPPER ROOF STRUCTURAL FRAMING PLANS

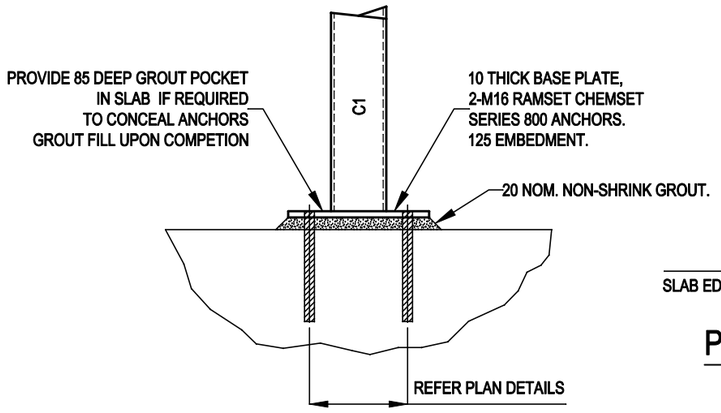
PROJECT NO. 117.05
SCALE 1:100
DRAWING NO. S02
REV 0

A3

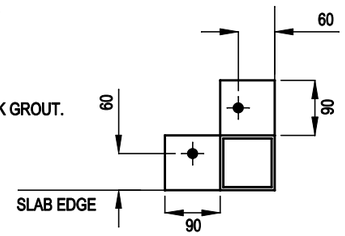


TYPICAL PAD FOOTING (F1) & POST (P1) BASE DETAIL

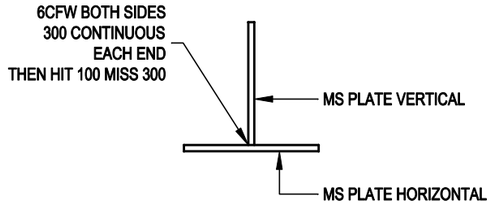
SCALE 1:10



TYPICAL COLUMN C1 BASE DETAIL



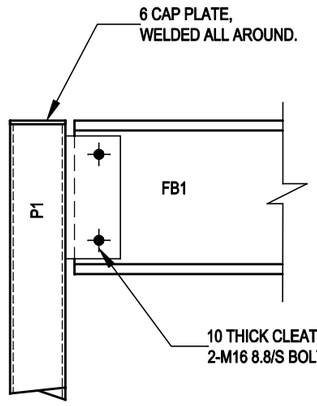
PLAN DETAIL @ CORNER



EMBED LINTEL 200 MIN. INTO BRICKWORK EACH END.

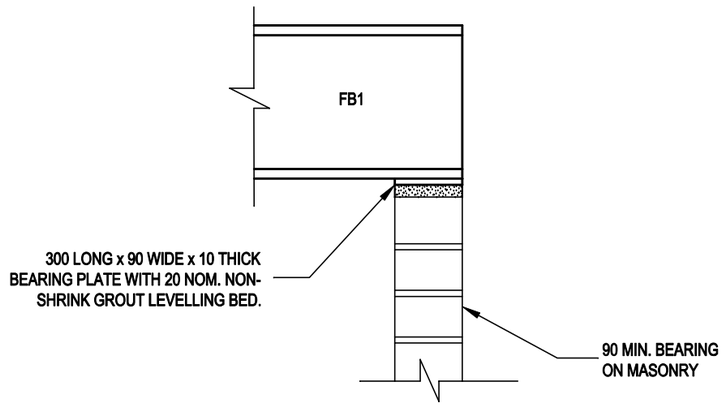
TYPICAL BL DETAIL

SCALE 1:10



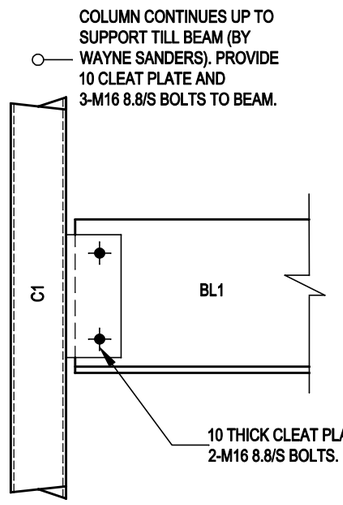
FLOOR BEAM FB1 TO POST P1 DETAIL

SCALE 1:10



FLOOR BEAM FB1 TO MASONRY WALL DETAIL

SCALE 1:10



BRICKWORK LINTEL BL1 TO COLUMN C1 DETAIL

SCALE 1:10

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DRAWN	DESIGNED
P.DEERY	P.DEERY
SIGNED	SIGNED
DATE	DATE

DRAWING TITLE: STEELWORK DETAILS

PROJECT NO.: 117.05

SCALE: 1:10

DRAWING NO.: S03

REV: 0