

**CONSTRUCTION NOTES
DESIGN CRITERIA**

1. WIND 'N3'
2. INTERNAL PRESSURE Cpi = +0.2, Cpe = -0.3
3. ROOF LIVE LOAD 0.25kPa
4. FLOOR LIVE LOAD 1.50kPa, Balcony 2.0kPa
5. SITE CLASSIFICATION (AS PER 2870-2011) "P" "TBC REACTIVITY"

GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DOCUMENTATION AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE BUILDER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFFSITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
3. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURE NO PART IS OVER-STRESSED.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT SAA CODES (INCLUDING ALL AMENDMENTS) AND THE STATUTORY AUTHORITIES REQUIREMENTS, EXCEPT WHERE VARIED BY THE CONTRACT.
5. THE BUILDING CERTIFIER ACKNOWLEDGES BY THE ISSUE OF THE BUILDING PERMIT THAT THESE DOCUMENTS (WITH ANY RELAXATIONS OR EXEMPTIONS WHICH MAY BE NECESSARY) COMPLY WITH THE CURRENT BUILDING ACT BY LAWS AND REGULATIONS WHICH THE LOCAL AUTHORITY IS EMPOWERED TO ADMINISTER.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.
7. IF IN DOUBT ASK.
8. THE OWNERS ATTENTION IS DRAWN TO APPENDIX 'A' OF AS2870.2 2011 "PERFORMANCE REQUIREMENTS AND FOUNDATION MAINTENANCE" AND TO THE QBCC DOCUMENT "GUIDE TO PREVENTING STRUCTURAL DAMAGE" (www.qbcc.qld.gov.au).

EARTHWORK PLAN NOTES

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS & EXISTING LEVELS ON-SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER / SUPERINTENDENT.
2. ALL WORKS TO BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
3. EXCAVATION SHALL BE CARRIED OUT TO THE LEVELS NOMINATED. ALTERATIONS TO THE LEVELS SHALL ONLY BE MADE WITH PRIOR APPROVAL.
4. CONSTRUCTION EXCAVATION BATTERS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SHALL BE INSPECTED DURING THE INITIAL EXCAVATION AND CONTINUOUSLY INSPECTED BY A REGISTERED GEOTECHNICAL ENGINEER TO ENSURE THAT THE BATTERS REMAIN STABLE.
5. EXCAVATIONS SHALL NOT UNDERMINE ADJACENT STRUCTURES OR SERVICES.
6. TEMPORARY RETENTION SYSTEM SHALL BE INSTALLED WHERE THE EXCAVATION'S ZONE OF INFLUENCE EXTENDS BEYOND THE BOUNDARY OR UNDERMINES SERVICES.
7. PREVENT THE RELEASE OF CONTAMINATED STORMWATER FROM THE SITE. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED.
8. CONTRACTOR TO SUPPLY DETAILS OF THE TYPE OF FILL MATERIAL IF REQUIRED AND PROPOSED ACCESS ROUTES FOR THE SITE TO THE LOCAL AUTHORITY'S LICENSING AND COMPLIANCE OFFICER AT THE PRESTART MEETING.
9. APPROXIMATE EXCAVATION QUANTITY FOR LOCAL AUTHORITY'S REQUIREMENTS ONLY (N/A)
10. BULK FILL SHALL BE MIN. CBR 15 COMPACTED TO 95% S.D.D. COMPACTION TO BE TESTED & CERTIFIED LEVEL 1 BY GEOTECHICAL ENGINEER

**CONCRETE NOTES
GENERAL**

1. CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS 3600
2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT.
3. DO NOT OBTAIN DIMENSIONS BY SCALING THE STRUCTURAL ELEMENTS.
4. IN CASE OF DOUBT - ASK.
5. CONDUITS OR PIPES SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCEMENT, NOT IN THE COVER CONCRETE ZONE.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PENETRATIONS TO THE BEAMS AND PENETRATIONS LARGER THAN 150x150 TO THE SLAB NOT DETAILED ON THE DRAWINGS, PRIOR TO THE PLACEMENT OF ANY CONCRETE.

DESIGN LOADS(AS PER AS1170.1 -2002)

- LIVE LOAD INTERNAL - 1.5 kPa
- LIVE LOAD BALCONIES - 2.0 kPa
- LIVE LOAD GARAGE - 3.0 kPa
- LIVE LOAD STAIRS - 4.0 kPa

CONCRETE

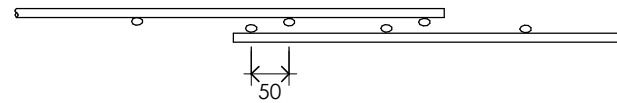
1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH f'c AS DEFINED IN AS 3600. ADD A WATER REDUCING ADMIXTURE IN ACCORDANCE WITH AS 1478 AND AS 1479.

Location	AS3600 f'c MPa at 28 days	SPECIFIED SLUMP	NOMINAL AGG. SIZE
FOOTINGS SLAB ON GRADE	25	80	20
U.N.O.	32	80	20

2. USE "A.C.S.E. SPECIFICATION TYPE SL" CEMENT, UNLESS OTHERWISE SPECIFIED.
3. CONCRETE TESTING :-
(a) CONCRETE SHALL BE SAMPLED AT THE PROJECT SITE IN ACCORDANCE WITH AS1012.1 PRIOR TO SITE HANDLING.
(b) THE FREQUENCY OF HANDLING SHALL PROVIDE ONE SAMPLE FROM EACH 50m³. OF CONCRETE IN A SINGLE POUR BUT NOT LESS THAN 3 NO. SAMPLES.
(c) ALL TEST RESULTS SHALL BE FORWARDED TO THE PROJECT SUPERINTENDENT.
4. CONSOLIDATE BY VIBRATION. CURE ALL CONCRETE SURFACES.

REINFORCEMENT

1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES. A MARK NUMERAL (IF USED) FOLLOWS THIS NUMERAL.
N. HOT ROLLED DEFORMED BAR, GRADE 500N
S. HOT ROLLED DEFORMED BAR, GRADE 230S
R. PLAIN ROUND BAR, GRADE 250R
L. HARD DRAWN WIRE FABRIC, GRADE 500L
2. PROVIDE PLASTIC TIPPED BAR SUPPORTS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
FOOTINGS - 60 BOTTOM, 60 TOP, 60 SIDES. U.N.O.
BASEMENT SLAB - 60 BOTTOM, 40 TOP, 60 SIDES.
SLABS - 30 TOP, 30 BOTTOM, 45 WHEN EXPOSED TO WEATHER.
BEAMS - 30 TOP, 30 BOTTOM, 45 WHEN EXPOSED TO WEATHER.
COLUMNS - 45 COVER TO TIES.
STAIRS - 30 BOTTOM, 30 TOP, 30 SIDES. 45 COVER WHEN EXPOSED TOWEATHER.
WALLS - 30, 45 WHEN EXPOSED TO WEATHER.
3. LAP FABRIC 2 WIRES MINIMUM + 50mm AS INDICATED BELOW. FABRIC SHEET SHALL BE WIRED TOGETHER AT 1000 MAXIMUM CENTRES.



4. LAPS IN REINFORCEMENT SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED. LAP LENGTHS SHALL BE 40 BAR DIA. UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER TO ENSURE IT HAS BEEN ACCURATELY PLACED AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE.

FOOTING NOTES

1. ALL FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE MATERIAL AND WATER.
2. SIDES OF FOOTINGS ARE TO BE FORMED AS NECESSARY WHEN EXCAVATED FACE IS NOT STABLE.
3. ALL WALLS AND COLUMNS SHALL BE CONCENTRIC WITH SUPPORTING FOOTINGS U.N.O.
4. UNLESS APPROVED BY THE STRUCTURAL ENGINEER, EXCAVATIONS SHALL NOT EXTEND BELOW A LINE DIPPING AT 45 DEGREES AND AWAY FROM THE NEAREST UNDERSIDE CORNER OF ANY FOOTINGS.

MASONRY NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3700 AND THE SPECIFICATION.
2. CONCRETE BLOCKS SHALL BE GRADE 15 CONFORMING TO AS 2733 AND SHALL BE LAID DRY IN STRETCHER BOND. "H" BLOCKS SHALL BE USED FOR RETAINING WALLS.
3. CLAY BRICKS SHALL BE GRADE 20 CONFORMING TO AS1225 AND LAID IN STRETCHER BOND.
4. MORTAR SHALL CONSIST OF WELL MIXED CEMENT:LIME:SAND IN THEPROPORTIONS BY VOLUME AS FOLLOWS:
RETAINING WALLS AND BELOW DAMP-PROOF COURSE - 1:1/10:3 ELSEWHERE (EXCLUDES 10km. FROM COAST) - 1:1:6
ADMIXTURES SHALL NOT BE USED WITHOUT APPROVAL OF THE ENGINEER.
5. WALL TIES SHALL BE HEAVY DUTY GALVANISED STEEL COMPLYING WITH AS2699 AND SPACED AT 600 Max. CTS. AND NOT MORE THEN 300 FROM CONTROL JOINTS, PENETRATIONS, THE PERIMETER OF OPENINGS AND THE TOP OF THE WALL. WHERE WALLS ARE NOT ENGAGED AT "T" JUNCTIONS OR CORNERS, PROVIDE TIES AT 600 Max. CTS. TYPICAL.
6. GALVANISED COURSE REINFORCEMENT EQUAL TO A.R.C. PRODUCT SHALL BE PROVIDED AT VERTICAL SPACING OF 600mm. TO EACH LEAF AS FOLLOWS:
90/110mm. - MR3550
140mm. - MR35100
190/230mm. - MR35150
COURSE REINFORCEMENT SHALL BE LAPPED 300mm. ONE ADDITIONAL RUN SHALL BE PROVIDED UNDER AND OVER ALL WINDOW AND DOOR OPENINGS BONDED 300MM PAST THE OPENING.
7. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF EACH CORE AND CORES SHALL BE CLEANED OF MORTAR PROTRUSIONS BEFORE GROUTING.

8. FILL ALL CORES WITH GROUT UNLESS NOTED OTHERWISE AND THOROUGHLY COMPACT BY MECHANICAL VIBRATOR AND/OR RODDING WITH A PLAIN ROUND BAR. GROUT SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION, CONFORMING TO AS 3600:
CHAR. STRENGTH F'c = 20 MPa.
SPECIFIED SLUMP = 230 mm.
MAX. AGG. SIZE = 10 mm.
NON LOADBEARING BLOCK WALLS ARE NOT CORE FILLED U.N.O.
9. BACKFILLING OF RETAINING WALLS SHALL BE CARRIED OUT AFTER GROUT HAS REACHED A MINIMUM STRENGTH OF 16MPa. BACKFILLING SHALL BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 200mm. TO 95% STANDARD COMPACTION UNLESS NOTED OTHERWISE.

10. WHERE RETAINING WALLS RELY ON CONNECTING STRUCTURAL ELEMENTS FOR STABILITY, DO NOT BACKFILL AGAINST THE WALL UNLESS IT IS ADEQUATELY PROPPED OR THE ELEMENTS HAVE BEEN CONSTRUCTED AND HAVE SUFFICIENT STRENGTH TO WITHSTAND THE LOADS.
11. PROVIDE WATERPROOFING TO BACK OF RETAINING WALLS AS SPECIFIED OR NOTED BY THE ARCHITECT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BLOCKWORK IN A STABLE CONDITION DURING CONSTRUCTION.

13. CONTROL JOINTS SHALL BE SPACED AT MAXIMUM OF 8000 CENTRES UNLESS NOTED OTHERWISE.
14. ALL NON-LOADBEARING WALLS SHALL BE BUILT TO WITHIN 20mm OF SLAB SOFFITS AND HAVE THE VOID, SO FORMED, FILLED WITH A SUITABLE COMPRESSIBLE FILLER.

STRUCTURAL STEELWORK NOTES

GENERAL


1. FABRICATE AND ERECT ALL STRUCTURAL STEELWORK IN ACCORDANCE WITH AS 4100, AS 1554, AS 1101.3.
2. STEEL GRADES SHALL BE AS FOLLOWS :-
MEMBER GRADE
HOT ROLLED PLATE 250
UB,UC,PFC, ANGLES & FLATS 300 PLUS
WB AND WC. 300 PLUS
RHS,SHS AND CHS 350
3. COLD FORMED PURLINS AND GIRTS SHALL BE "LYSAGHTS" / "STRAMIT" OR OTHER SECTION APPROVED IN WRITING BY THE ENGINEER, HAVING 450 MPa. YIELD, AND A MIN. GALVANIZED COATING OF 350 gm/m² U.N.O. CHANNEL BRIDGING SHALL BE USED AS NOTED.
4. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT.
5. DO NOT OBTAIN DIMENSIONS BY SCALING THE STRUCTURAL ELEMENTS.
6. SUBMIT 1 No. ELECTRONIC & 1 No. HARD COPY OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL OF GENERAL ARRANGEMENT & MEMBER SIZES OF STRUCTURAL ELEMENTS BEFORE COMMENCING FABRICATION.
7. ALL MEMBER CENTROIDS AT CONNECTIONS SHALL INTERSECT AT A POINT UNLESS NOTED OTHERWISE. GAUGE LINES MAY BE USED IN LIEU OF CENTROIDS FOR BOLTED END CONNECTIONS OF ANGLES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STEELWORK IN A STABLE CONDITION DURING CONSTRUCTION.

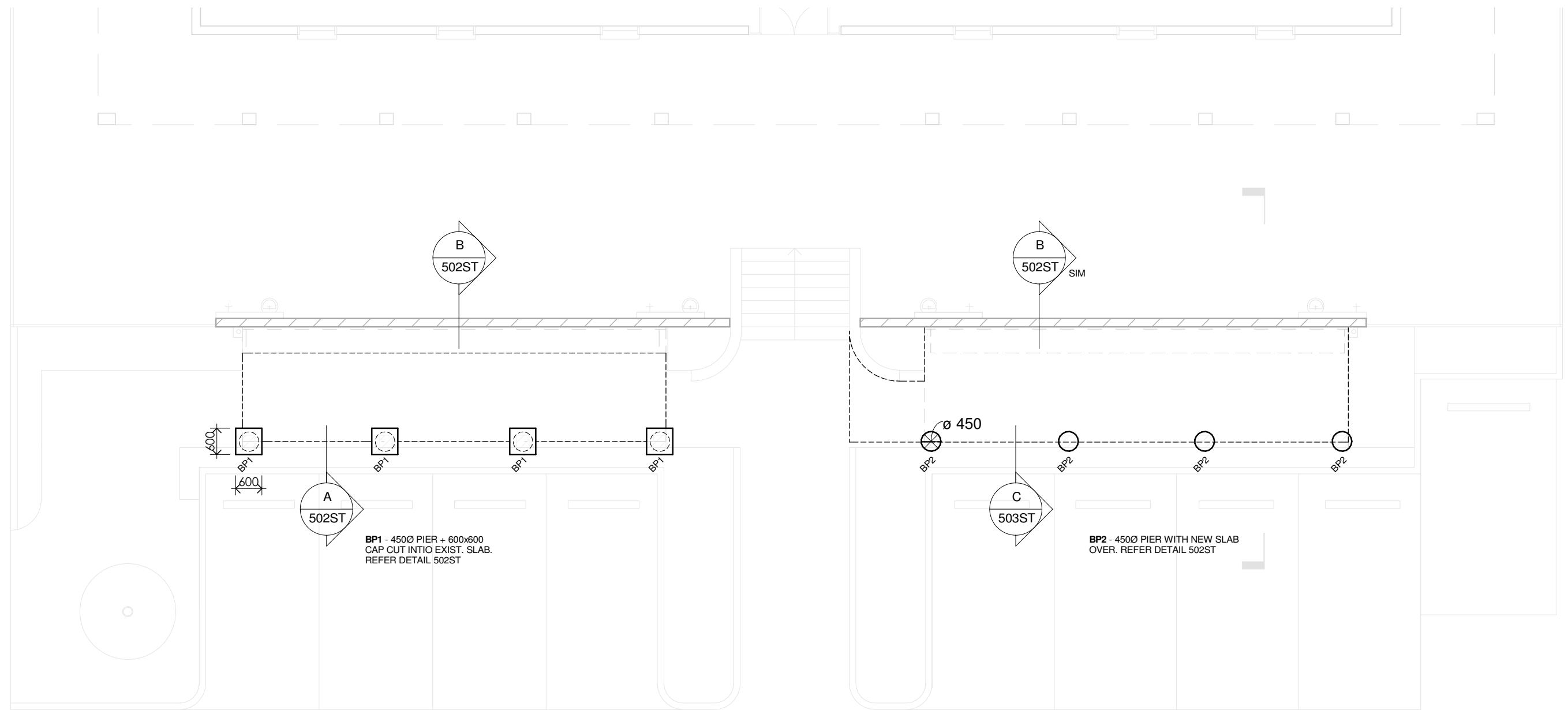
DESIGN LOADS (TO AS1170.2 -2011)

- ROOF LIVE LOAD - 0.25 KPa
- WIND LOAD - REGION "B" CAT. "3"

STEELWORK

1. UNLESS OTHERWISE NOTED USE
(a) 10 mm THICK GUSSET, FIN AND END PLATES, WELD ALL ROUND.
(b) 20 mm DIA. 8.8/S BOLT.
(c) 6 mm CONTINUOUS FILLET WELDS.
2. ALL WELDS SHALL BE CATEGORY SP. AS SECIFIED IN AS1554 WITH THE EXCEPTION OF THE FOLLOWING GP. CATEGORY WELDS. PURLIN CLEATS, AND GIRT CLEATS.
3. WELDING ELECTRODES SHALL BE E48XX/W50X.
4. FABRICATION SHALL BE CARRIED OUT BY WELDERS WHO ARE QUALIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF AS1554.
5. GRADE 8.8 BOLTS SHALL NOT BE WELDED, INCLUDING TACK WELDS FOR CAGING.
6. ALL BOLTS (INCLUDING MASONRY ANCHORS) SHALL BE HOT DIP GALVANIZED.
7. ALL HOLDING DOWN BOLTS SHALL BE GRADE 4.6/S UNLESS NOTED OTHERWISE.
8. ALL HOLDING DOWN BOLTS SHALL BE HOT DIP GALVANIZED AND PASSIVATED IN A 0.2 % SODIUM DICHROMATE SOLUTION.
9. GROUT UNDER BASE PLATES SHALL BE HIGH STRENGTH NON-SHRINK OF FLOWABLE CONSISTANCY. ENSURE FULL CONTACT WITH BASE PLATE AND NO VOIDS UNLESS NOTED OTHERWISE.
10. CHIP ALL WELDS FREE OF SLAG.
11. PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN BUILDING STABILITY DURING CONSTRUCTION.
12. DO NOT GROUT UNDER BASE PLATES UNTIL FIRST LEVEL STEELWORK IS PLUMB AND FIXED BY WELDING OR BOLTING.
13. PREPARE AND FINISH STEELWORK SURFACES AS FOLLOWS :-
INTERNAL - ABRASIVE BLAST CLEAN STEELWORK TO AN AS 1627 CLASS 2.5 FINISH AND APPLY 0.075mm OF "ZINCANODE 402" OR EQUIVALENT PRIOR TO DELIVERY TO SITE.
EXTERNAL - EXPOSED TO ENVIRONMENT - STEELWORK SHALL BE CLEANED IN ACCORDANCE WITH AS 1657 PART 5 AND HOT DIP GALVANIZED IN ACCORDANCE WITH AS 1650 TO ACHIEVE AN AVERAGE ZINC COATING WEIGHT OF 600 gm/sq.m. (MIN. ZINC COATING WEIGHT 550 gm/sq.m.)
14. GALVANIZING DAMAGED BY WELDING SHALL BE MADE GOOD USING "GALSTICK" IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND HAVE 2 COATS OF "COLD-GAL" PAINT OR EQUAL.


00A 20.01.20 Prelim Engineering Issue Date Issue Description	Rev Date Revision Description	Vector Structural Engineering PO BOX 1123, OXLEY, QLD 4075 www.vectorstructural.com.au Ph: +617 3188 6130 E-Mail: designed@vectorstructural.com.au		Proposed Undercover Walkway at 2679 Logan Road Eight Mile Plains QLD 4113 for Brisbane Sikh Temple	Structural Notes Structural Engineering	Scale at A3 1 : 10	Job No 200101
						Designed SM	Dwg No 500ST
						Drawn RS	Issue
						Checked SM	00A



BP1 - 450Ø PIER + 600x600
CAP CUT INTO EXIST. SLAB.
REFER DETAIL 502ST

BP2 - 450Ø PIER WITH NEW SLAB
OVER. REFER DETAIL 502ST

FOOTING PLAN
TOP OF FOOTINGS VARIES.
BORED PIERS 450Ø U.N.O
MINIMUM ALLOWABLE BEARING CAPACITY
100kPa TO NATURAL ???
CLASS 'TBC' 'REACTIVITY TBC' SITE. REFER TBC SOIL
TESTING REPORT TBC, DATE:TBC.
FOOTING DETAILS REFER DRAWING 503ST.

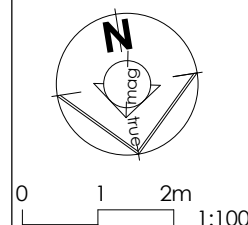
 DENOTES BORE HOLE LOCATIONS.
BH. REFER SOIL TESTING REPORT FOR
DETAILS.

00A 20.01.20 Prelim Engineering
Issue Date Issue Description

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Vector Structural Engineering
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Proposed Undercover Walkway

at 2679 Logan Road
Eight Mile Plains QLD 4113
for Brisbane Sikh Temple

Footing Layout

Structural Engineering

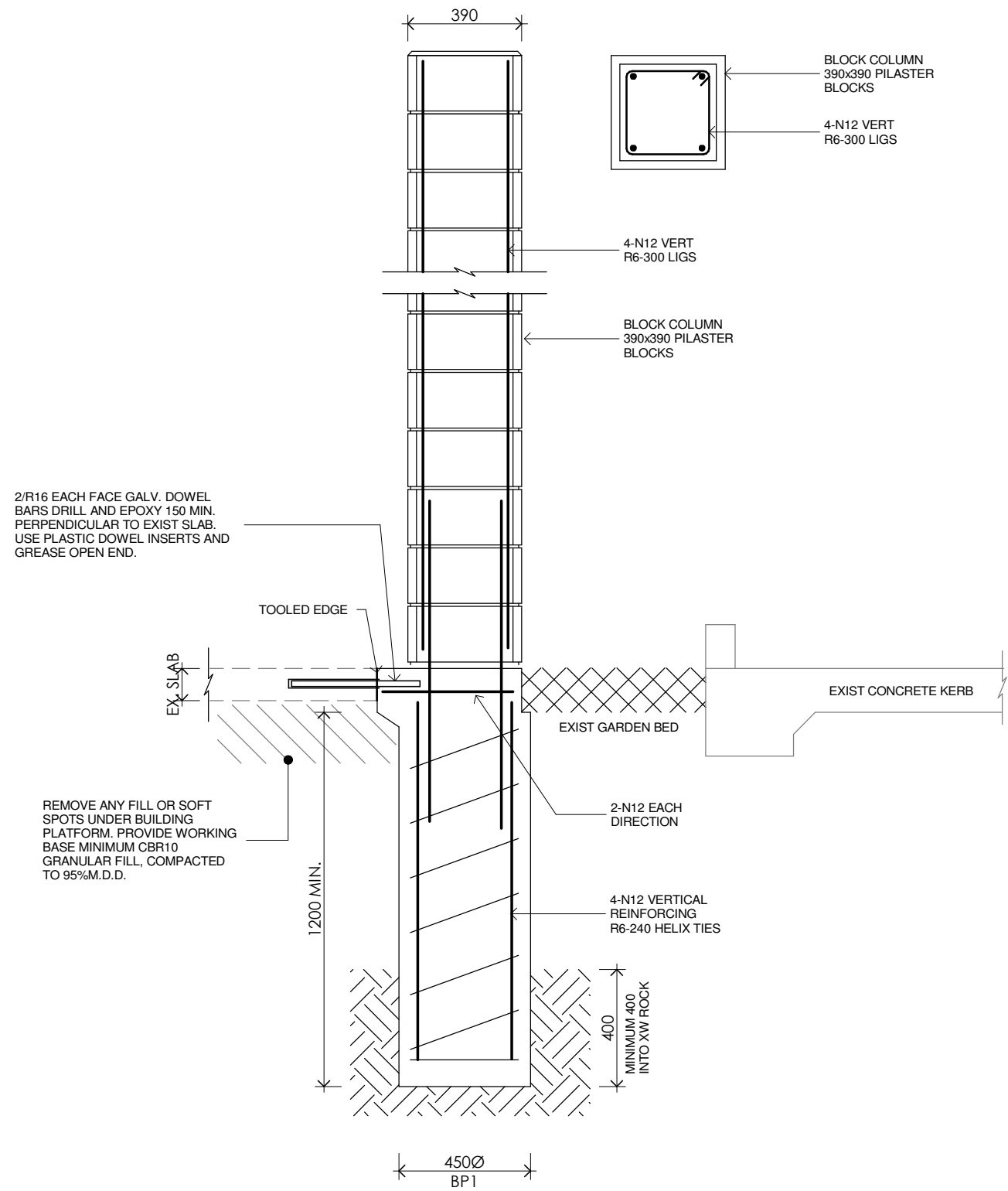
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Designed SM
Drawn RS
Checked SM

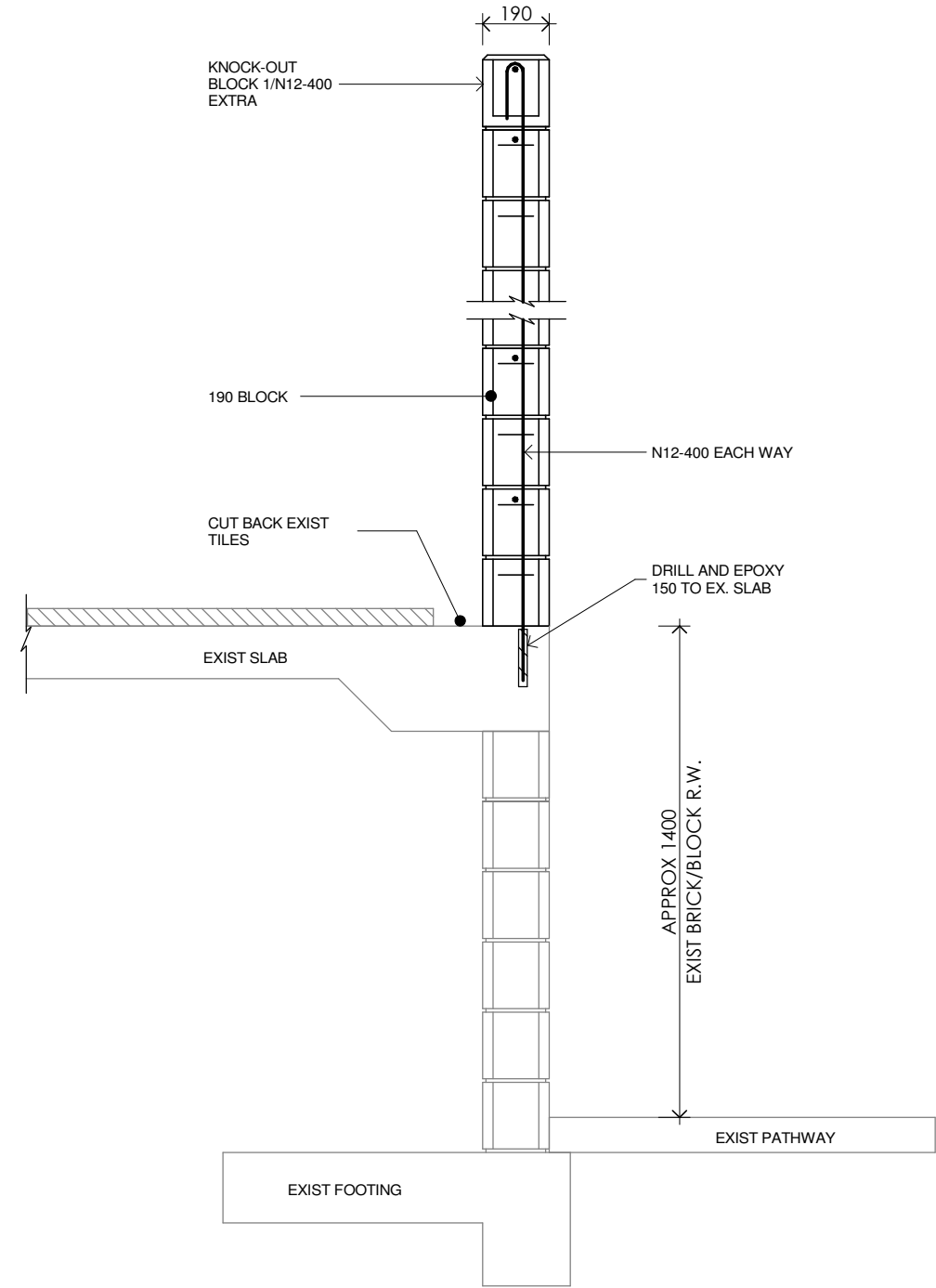
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Issue
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A Section A
501ST 1:20



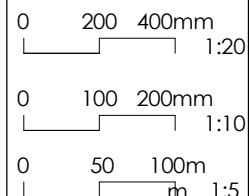
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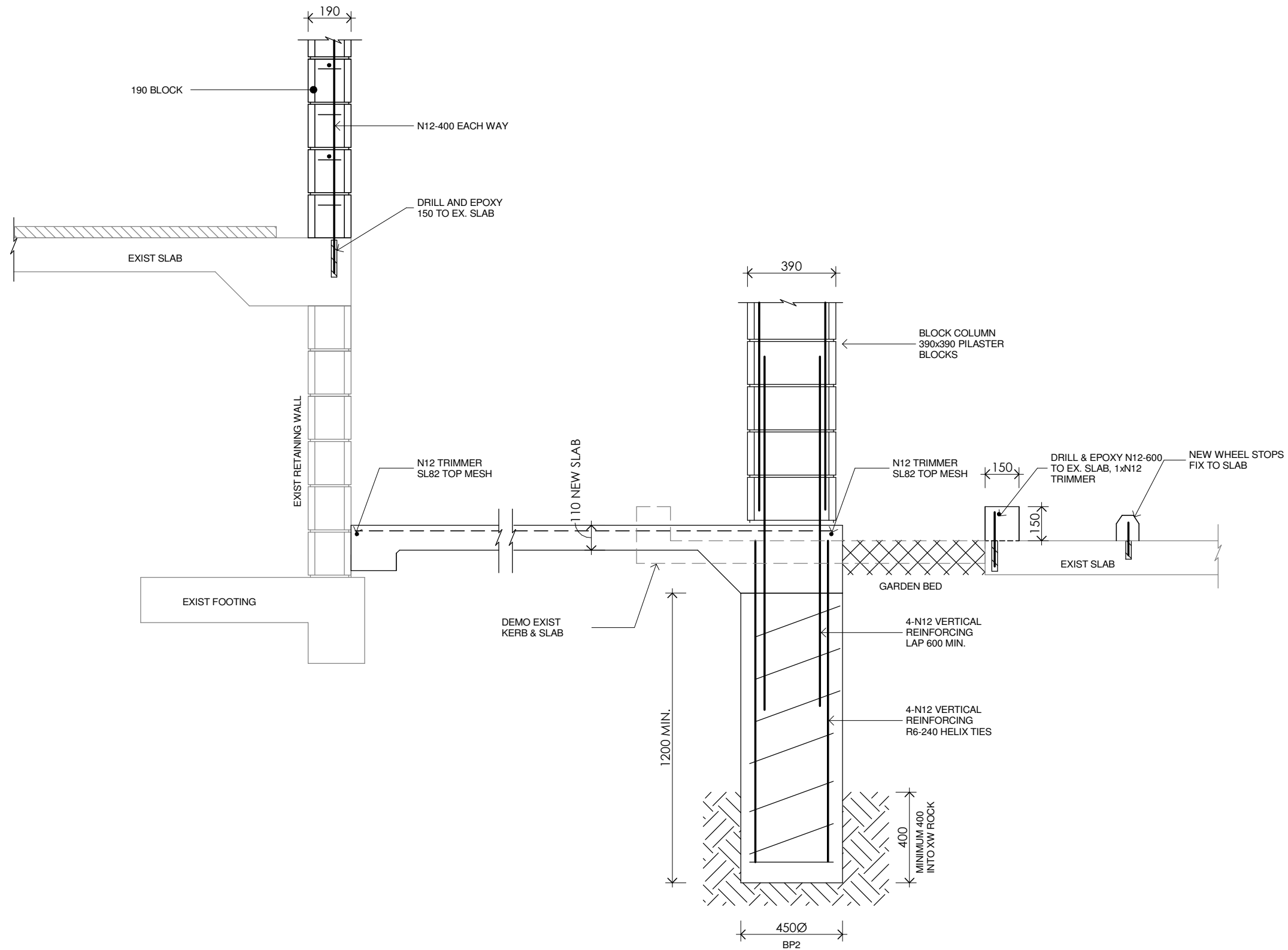


Proposed Undercover Walkway
at 2679 Logan Road
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for Brisbane Sikh Temple

Footings & Sections 1
Structural Engineering

Scale at A3
1:20
Designed SM
Drawn RS
Checked SM

Job No
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Dwg No
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Issue
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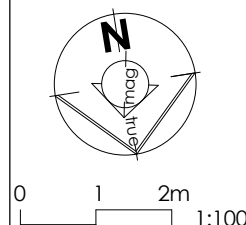
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Footings & Sections 2

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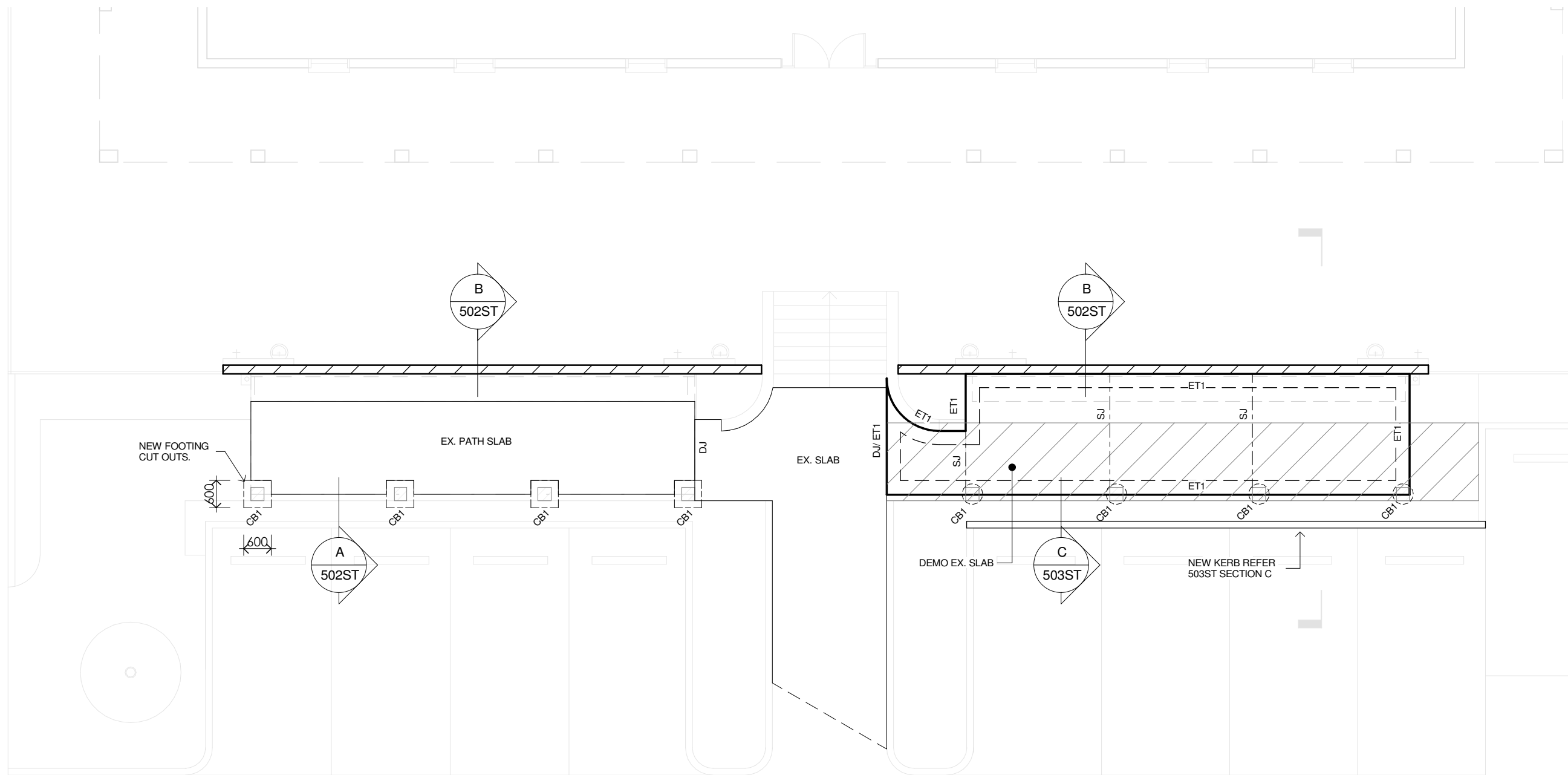
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Job No
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Issue
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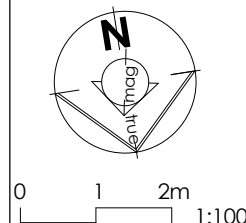
SLAB CONSTRUCTION
 100mm RAFT SLAB
 FOUND TO (TBC SOIL REPORT)
 SL82 MESH TOP 40 COVER U.N.O.
 LAY ON 50mm SAND BED WITH WATERPROOF MEMBRANE.
 DESIGNED FOR CLASS 'TBC' 'REACTIVITY TBC' SITE, MOVEMENT UP TO 65mm

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Slab Plan

Structural Engineering

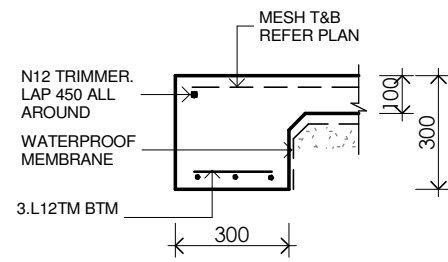
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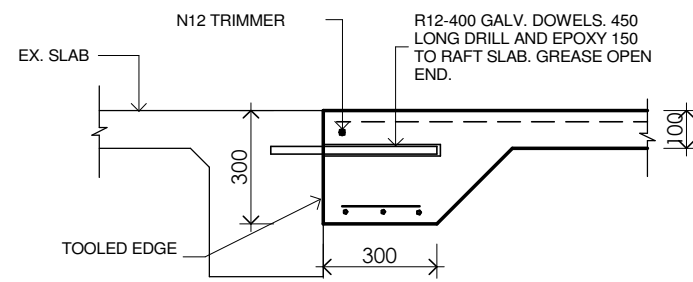
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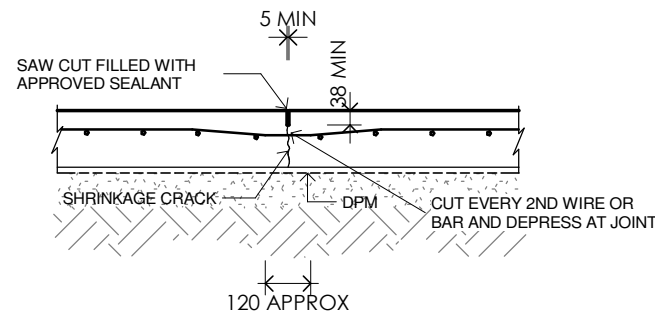
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ET1 DETAIL

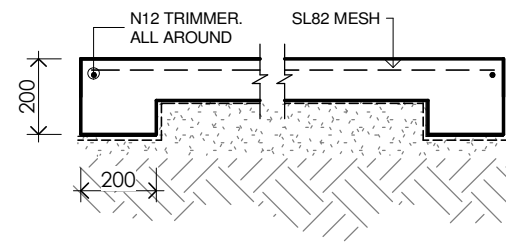


ET3 DETAIL (DJ)

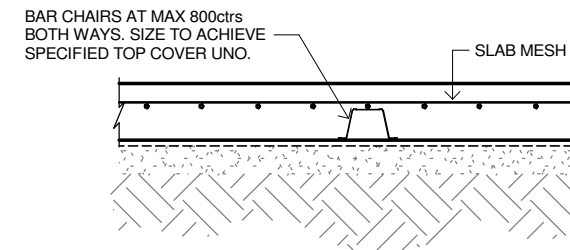


CONTROL JOINT - SAWN (SJ)

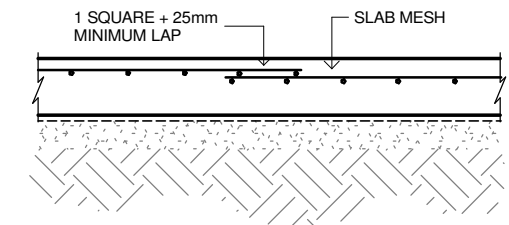
JOINT TO BE SAWN WITHIN 12 HOURS OF CONCRETE SETTING



NON STRUCTURAL SLAB



TYPICAL BAR CHAIR DETAIL



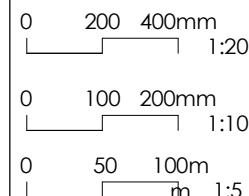
TYPICAL MESH LAP DETAIL

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Slab Details

Structural Engineering

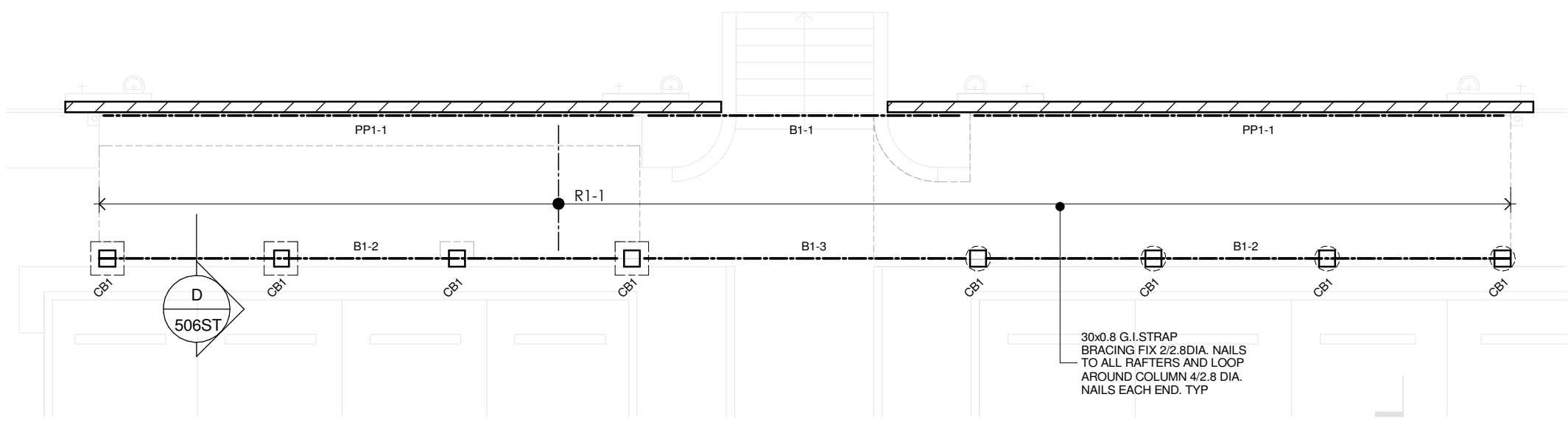
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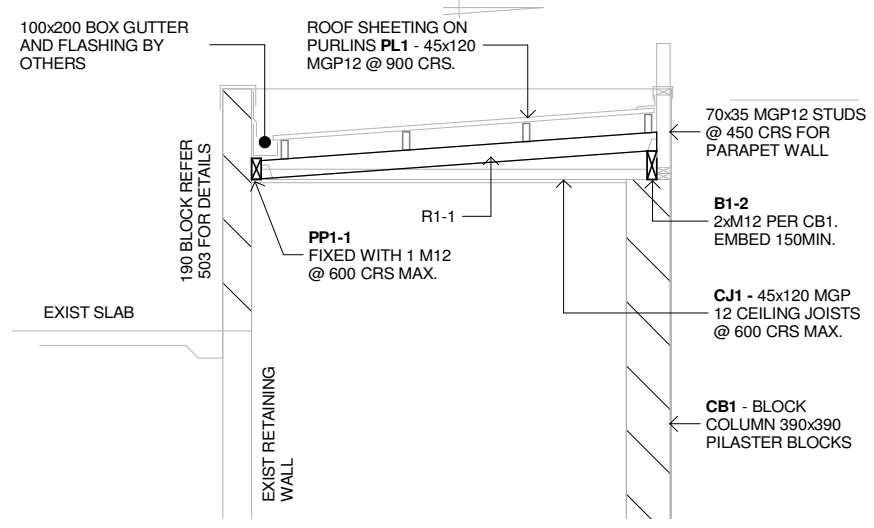
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Issue
00A



ROOF PLAN
1 : 100



D Section D
1 : 100

MEMBER SCHEDULE			
MARK	MEMBER	MARK	MEMBER
B1-1	150x42 LVL15	PP1-1	130x42 LVL15 FIXED @ 600 CRS.
B1-2	200x63 HYSYPAN LVL	R1-1	130x42 LVL15
B1-3	300x75 LVL15 OR 200 PFC	CB1	390.SQ. BLOCK COLUMN.
PL1	45x120 MGP12 @ 600 CRS		
CJ1	45x120 MGP12 @ 600 CRS		

TIE-DOWN SPECIFICATIONS				N3
Roof covering	Metal Sheet	Battens		HWD J2
Uplift load width	<6000	Rafters / trusses		JD4
Rafter / truss spacing	900ctrs MAX	Lintels / roof beams		JD4
Batten Spacing	900 ctrs	Wall Framing		JD4
NOTE: All construction is to be in accordance with the BCA.				
Battens to Rafters/Trusses (General Area)	TABLE No.	UPLIFT FORCE	FIG No.	LOAD kN
	9.14	1.2	9.25(d)	4.50
Battens to Rafters/Trusses (Within 1200mm of Roof Edges)	1/75mm NO 14 Type 17 Screw			
	9.14	2.3	9.25(d)	4.50
Rafters/Trusses to Lintels/Beams/Verandah Plates/Wall Frames (double tie down requirements for all girder trusses)	1/75mm NO 14 Type 17 Screw			
	9.13	7.1	9.21(e)	13
Beams/Lintels to studs/posts (Single or Upper Storey, Opening <1800)	1/30x0.8mm GI Loop Strap 4/2.8Ø Nail Per End			
	9.13	7.1	9.20(a)	8.4
Beams/Lintels to studs/posts (Single or Upper Storey, Opening <3600)	1/30x0.8mm GI Loop Strap, 6/2.8Ø Nail Per End, M10 bolt to floor			
	9.13	14.0	9.20(b)	17.0
Beams/Lintels to studs/posts (Single or Upper Storey, Opening <5200)	2/30x0.8mm GI Loop Strap, 6/2.8Ø Nail Per End, M12 bolt to floor			
	9.13	27.6	9.20(d)	35.0
Top plate to floor frame or slab	1/M16 Top Plate to Slab or Floor Frame and Top Plate M16 to Lintel within 100mm of Truss or Rafter			
	9.13	9.5	9.19(f)	20.0
Verandah Plates to Posts (3000 Veranda Roof RLW)	M12 Anchor rod, Top Plate to Floor Frame or Slab at Sides of openings, ends of walls and MAX 1800 ctrs			
	9.13	23.0	9.20(O)	40.0
Underpurlins/Ridgeboards/Hip Rafters to Walls/Floors	2/M12 bolts			
	9.12	23.0	9.24(B)	25.0
Bottom Plate to Floor Frame/Slab (Single Storey or Upper Storey)	2/30x.08mm GI strap			
	9.11	7.2	9.18(b)	15.00
Floor Joists to Supports (Single Storey or Upper Storey)	1/M10 bolt			
	9.10	8.1	9.17(c)	13
Bearers to Columns/Stumps/Piers/Masonry (Single Storey or Upper Storey)	1/30x0.8mm GI Loop Strap, 4/2.8Ø Nail Per End at MAX 1350 ctrs			
	9.9	25	9.16(j)	32
Wall Frame to Floor Frame/Slab (Lower Storey of Two Storeys)	2/M16 Bolts at MAX 4200 ctrs			
	9.8	7.2	9.18(b)	20.0
Floor Joists to Bearers or Supports (Lower Storey of Two Storeys)	1/M12 bolts			
	9.7		9.18(d)	20.0
Bearers to Columns/Stumps/Piers/Masonry (Lower Storey of Two Storeys)	Nominal fixing refer Clause 9.5 and Table 9.4			
	9.6			
Bottom of Bracing Walls	Nominal fixing refer Clause 9.5 and Table 9.4			
	8.24	18.0	8.24(c)	20.00
		1/M12 bolt	8.24(f)	20.00

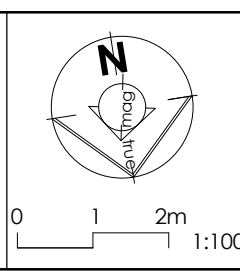
NOTE: All framing tables are to be read in conjunction with AS1684 Residential Timber Framed Construction Australian Standard

00A 20.01.20 Prelim Engineering
Issue Date Issue Description

Rev	Date	Revision Description

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Proposed Undercover Walkway
at 2679 Logan Road
Eight Mile Plains QLD 4113
for Brisbane Sikh Temple

Roof Framing
Structural Engineering

Scale at A3
1 : 100

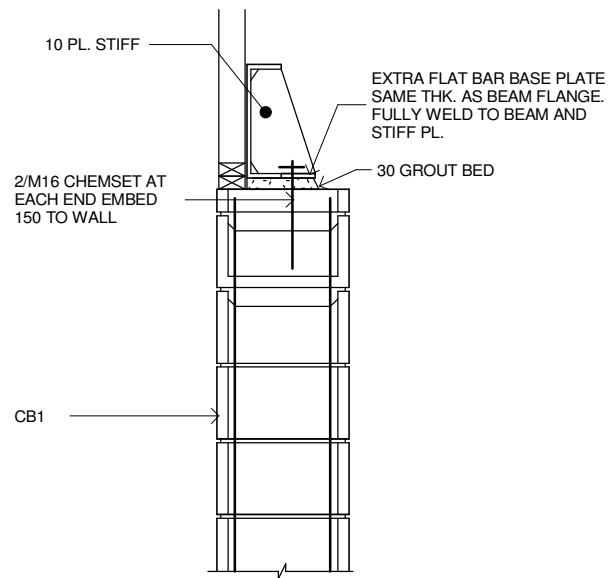
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Drawn RS
Checked SM

Job No
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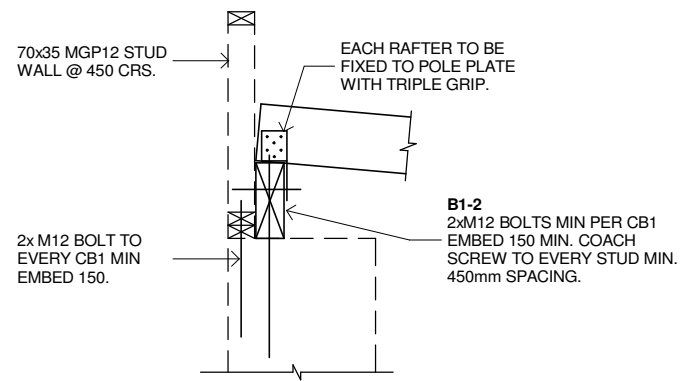
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Issue
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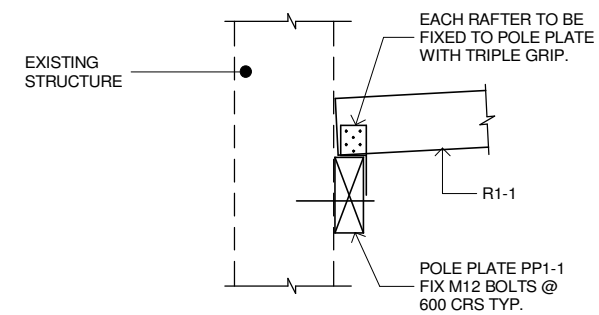
N3/W41N



B1-3 STEEL OPTION TIE DOWN DETAIL



RAFTER TO BEAM TYPICAL DETAIL



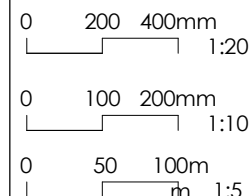
RAFTER TO POLE PLATE TYPICAL DETAIL

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Framing Connections

Structural Engineering

Scale at A3
1 : 20
Designed SM
Drawn RS
Checked SM

Job No
200101
Dwg No
507ST
Issue
00A