

SERVICE LOADS

1. IMPORTANCE LEVEL 3
- STRUCTURAL DESIGN ACTIONS TO AS/NZS 1170.0 & 1170.1:
- GROUND FLOOR: 3.0 kPa, 5.0kPa
LEVEL 1: 3.0 kPa, 4.0kPa
ROOF: 0.25 kPa

2. DESIGN WORKING LIFE: 50 Years
- WIND ACTIONS EQUIVALENT TO AS/NZS 1170.2:

- Region: C
Terrain Category: 2.0
Internal Pressure Coefficients (C_{pi}): +0.7, -0.65
External Pressure Coefficients (C_{pe}): +0.7, -0.65 (WALLS)
Shielding Multiplier M_g: 1.0
Topographic Multiplier M_{g,10}: 1.0
Terrain/Height Multiplier M_{z,cat}: 0.964
Design Gust Wind Speed Ultimate V_{g,10}: 70.7m/s
Design Gust Wind Speed Serviceability V_g: 44.9m/s
4. EARTHQUAKE LOADS TO AS1170.4:
- HAZARD FACTOR: 0.08
PROBABILITY FACTOR: 1.3
DESIGN CATEGORY: II
5. BALUSTRADE AND HAND RAIL DETAILS ARE TO BE IN ACCORDANCE WITH MANUFACTURERS DESIGN AND CERTIFICATION.
6. ALL GLAZING, FRAMING AND FIXINGS SHALL BE DESIGNED AND CERTIFIED BY THE MANUFACTURER AND SHALL BE IN ACCORDANCE WITH AS1170.2, AS1288, AS2047 AND AS2048.
7. THE ABOVE DOES NOT INCLUDE LOADS WHEN MAY BE APPLIED DURING CONSTRUCTION. THE BUILDER IS TO MAINTAIN STABILITY DURING CONSTRUCTION.
8. WIND PRESSURE ON GLAZING (BASED ON AS1170.2)

a = 6.0 m	GENERAL AREAS	a	a/2
ULTIMATE WIND PRESSURE:	4.62 kPa	-4.55 kPa	-5.44 kPa
SERVICEABILITY WIND PRESSURE:	1.87 kPa	-1.84 kPa	-2.20 kPa

SITE FOUNDATION IMPROVEMENT NOTES

BASED ON SITE INVESTIGATION 93944.00.R.001.REV0 THE FOLLOWING SITE FOUNDATION IMPROVEMENT SHALL BE CARRIED OUT.

1. STRIP THE TOPSOIL LAYER TO THE EXTENT SHOWN ON THE DRAWINGS. STOCKPILE SUITABLE MATERIAL FOR LATER RE-USE. DISPOSE OF UNSUITABLE OR SURPLUS MATERIAL OFF-SITE AS DIRECTED.
2. REMOVE ALL STRUCTURES AND SERVICES MARKED FOR DEMOLITION AND DISPOSE OF OFF-SITE AS DIRECTED. DEMOLITION MATERIAL IS NOT TO BE USED AS FILL MATERIAL UNDER ANY CIRCUMSTANCES.
3. ALL EXPOSED SURFACES SHALL BE COMPACTED TO THE REQUIRED DENSITY.
4. DISTURBED GROUND FROM DEMOLITION, TREE REMOVAL AND REDUNDANT SERVICES MAY BE PRESENT ON SITE. THE CONTRACTOR SHALL ALLOW ALL EXISTING FILL AND DISTURBED AREAS FROM DEMOLITION TO BE LIFTED, PROOF ROLL EXPOSED SURFACES, REMOVE AND DISPOSED OF OFF SITE. EXCAVATE ANY IDENTIFIED SOFT SPOTS AND REPLACED WITH SELECT IMPORTED FILL, AND/OR EXISTING FILL THAT IS SUITABLE FOR REUSE AS FILL AS PER GEOTECHNICAL ENGINEER'S INSTRUCTIONS.
5. WHERE SOFT SPOTS ARE IDENTIFIED, PROVISIONALLY ALLOW TO REMOVE OFF SITE AND REPLACE TO A MINIMUM DEPTH OF 300mm OVER ENTIRE AREA, WITH SELECT IMPORTED FILL.
6. ALL FILL MATERIALS SHALL BE COMPACTED IN LAYERS NO GREATER THAN 200mm TO THE REQUIRED DENSITY. IN NO CASE SHALL THE COMPACTED DENSITY BE LESS THAN 98% S.R.D.D.
7. ALL EXCAVATIONS NECESSARY FOR THE REMOVAL OF VEGETATION OR BURIED SERVICES SHALL BE BACKFILLED WITH MATERIAL THAT IS SIMILAR TO THE RESIDUAL SOIL PROFILE AND COMPACTED AS ABOVE.
8. ALL EARTHWORKS ARE TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION AS SPECIFIED AS3398 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS". EARTHWORKS CALL BE CERTIFIED BY AN RPD GEOTECHNICAL TESTING AUTHORITY TO COMPLY WITH THESE DRAWINGS, AS3398, AND AS2870.
9. ALL EXPOSED SURFACES ARE TO BE ADEQUATELY PROTECTED AGAINST SOIL EROSION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES ARE INSTALLED IN ACCORDANCE WITH "HEALTHY WATERS" GUIDELINES.
10. EXCAVATE & STOCKPILE ALL MATERIAL FROM BUILDING FOUNDATION AREAS OF AT LEAST 500mm BELOW EXISTING GROUND LEVEL. THE EXTENT OF BUILDING FOUNDATION AREAS SHALL BE 1m BEYOND ALL FOOTINGS OR TO THE PROPERTY BUILDING.

FOUNDATIONS

1. REFER TO GEOTECHNICAL INVESTIGATION NUMBER 93944.00.R.001.REV0 BY DOUGLAS PARTNERS CLASSIFYING THE SITE AS CLASS P (H2) IN ACCORDANCE WITH AS2870.
2. THE DESIGN OF THE STRUCTURE HAS BEEN BASED ON THE FOUNDATIONS HAVING A MINIMUM BEARING CAPACITY OF 100kPa
3. NATURAL FOUNDATION AND FILL TO BE GROUTED OUT AND FREE FROM ORGANIC MATTER AND DEBRIS, AND COMPACTED TO A MINIMUM OF 98% SRDD. FILL TO SLABS AND FOOTINGS SHALL BE AN APPROVED NON-PLASTIC MATERIAL, COMPACTED TO 98% SRDD.
4. ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH AS3398-2007 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".

BLOCKWORK

1. ALL BLOCKWORK SHALL BE IN ACCORDANCE WITH AS3700.
2. CONCRETE BLOCKS SHALL BE TO AS2733, WITH A FUC-15MPa.
3. CLAY BLOCKS SHALL BE TO AS1225, WITH A FUC-20MPa.
4. REINFORCEMENT AND CONCRETE CORE FILLING SHALL COMPLY WITH THE NOTES ON "CONCRETE AND REINFORCEMENT". MORTAR USED IN MASONRY THAT IS TO BE GROUTED OR REINFORCED SHALL BE OF CLASSIFICATION M3 TO AS3700.
- M3
- | CEMENT: | LIME | SAND |
|---------|------|------|
| 1 | 1 | 6 |
| 1 | 0 | 5 |
5. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT WALL INTERSECTIONS AND BARS ANCHORED AND LAPPED TO DEVELOP FULL TENSILE STRENGTH.
6. CLEANOUT BLOCKS SHALL BE PROVIDED AT THE BASE OF ALL CORES TO BE CONCRETE FILLED. ALTERNATIVELY, THE BUILDER SHALL OPEN SUCH CORES FOR CLEANING BY AN APPROVED METHOD.
7. ALL CORES TO BE CONCRETE FILLED SHALL BE CLEANED OUT BY HOISING PRIOR TO FINAL SETTING OF MORTAR AT ALL LIFTS, OR BY RODDING PRIOR TO CONCRETE FILLING.
8. UNTEL BEAMS SHALL BE PROPPED FOR 28 DAYS AFTER CONCRETING.
9. A CANTILEVER RETAINING WALL SHALL BE PROPPED UNTIL CORE FILL HAS ATTAINED ITS DESIGN STRENGTH, IF BACK FILL IS TO BE PLACED BEHIND THE WALL.
10. A PROPPED CANTILEVER RETAINING WALL SHALL BE PROPPED UNTIL THE SUPPORTING SLAB OVER HAS ATTAINED ITS DESIGN STRENGTH.
11. BLOCKWORK COURSE LAYOUT IN DETAILS, SECTIONS AND ELEVATIONS HAS BEEN SHOWN INDICATIVELY ONLY. TOP AND BOTTOM COURSES OF ALL UNTELS AND BOND BEAMS MUST BE FULL HEIGHT BLOCK, FINAL LAYOUT TO BE CONFIRMED BY BUILDER.

STRUCTURAL TIMBER

1. STRUCTURAL TIMBER AND CONNECTIONS SHALL COMPLY WITH AS1720.1 "TIMBER STRUCTURES CODE", AS1684 "TIMBER FRAMING CODE" AND ALL RELEVANT CODES MENTIONED THEREIN.
2. PROVIDE TIMBERS WITH DURABILITY CLASS AND/OR PRESERVATIVE TREATMENT SUITED TO THE INTENDED APPLICATION AS RECOMMENDED BY AS1684.
3. U.N.O. TIMBERS SHALL HAVE THE FOLLOWING CHARACTERISTICS:
- | DESCRIPTION | GRADE | STRENGTHEN GROUP | JOINT GROUP |
|-----------------------|-------|------------------|-------------|
| HARDWOOD - SEASONED | F17 | S03 | J02 |
| HARDWOOD - UNSEASONED | F14 | S3 | J2 |
| SOFTWOOD - SEASONED | MPG12 | S06 | J04 |
4. PROVIDE BOLTS WITH WASHERS UNDER BOLTHREAD AND NUT RESPECTIVELY. WASHERS SIZES SHALL BE AS SHOWN BELOW.
- | BOLT SIZE | THICKNESS (mm) | Ø (mm) | IF SQUARE (mm) |
|-----------|----------------|--------|----------------|
| M10 | 2.5 | 40 | 40 |
| M12 | 3.0 | 55 | 50 |
| M16 | 4.0 | 65 | 57 |
| M20 | 5.0 | 75 | 65 |
5. GALVANIZED/HOT DIPPED GALVANIZED OR STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH AS2124.

NUISANCE

1. THE CONTRACTOR SHALL DEVELOP, IMPLEMENT AND ADMINISTER A PLAN THAT WILL ENSURE THE MANAGEMENT OF NOISE AND VIBRATION RESULTING FROM CONSTRUCTION WORKS.
2. THE CONTRACTOR WILL NEED TO ENSURE ALL ADJOINING PROPERTY REQUIREMENTS RELATING TO NOISE AND VIBRATION ARE MET.
3. IF IT IS ESTABLISHED THAT THERE ARE NO SITE SPECIFIC REQUIREMENTS, THEN THE CONTRACTOR SHALL REFER TO MINIMUM REQUIREMENTS FOR ABATEMENT OF NOISE AND VIBRATION NOMINATED BY RELEVANT STATUTORY REQUIREMENTS.
4. THE CONTRACTOR WILL NEED TO PREPARE AND ADVISE ON MONITORING AND MANAGEMENT OF NOISE AND VIBRATION BASED ON PROFESSIONAL ADVICE FROM A SUITABLY QUALIFIED PERSON OR PERSONS.

TREE REMOVAL

1. WHERE TREE REMOVED, EXCAVATE 200mm BELOW EXTENT OF ROOT BALL. COMPACT SURFACE EXPOSED BY EXCAVATION TO 95% SRDD. TO A DEPTH OF ATLEAST 250mm. COMPACT FILL TO 95% SRDD. IN LAYERS OF THICKNESS APPROPRIATE TO THE COMPACTION PLANT EMPLOYED. ALL FILL SHALL BE CLASS 2 GRAVEL FILL WITH MINIMUM SOAKED CBR 10 AT 100 SRD.

ABOVE IS MINIMUM REQUIREMENT. CIVIL SITE REQUIREMENTS TAKE PRECEDENCE OVER ABOVE.

CONCRETE AND REINFORCEMENT

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH AS3600 CONCRETE STRUCTURES.
2. CONCRETE SPECIFICATIONS SHALL BE:-
- | ELEMENT | GRADE | SLUMP | MAX AGG. |
|----------------|------------|------------|----------|
| FILLING 150 CM | 20MPa | 220 +/- 30 | SAND |
| FILLING 200 CM | 20MPa | 230 +/- 30 | 10 |
| INTERIOR RC | AS NOTED | 80 +/- 15 | 20 |
| EXTERIOR RC | AS NOTED | 80 +/- 15 | 20 |
| FOOTINGS | N25 U.N.O. | 80 +/- 15 | 20 |
- METHOD OF PLACEMENT BY PUMP. PROJECT ASSESSMENT IS NOT REQUIRED.
3. COVER TO REINFORCEMENT SHALL BE:-
- (I) FOOTINGS - 40mm BOTTOM, 40mm SIDES & TOP
- (II) GROUND FLOOR SLABS - 30mm TOP
- (III) SUSPENDED SLABS - 20mm TOP & BOTTOM
- (IV) COVER SHALL BE 40mm WHERE SURFACE IS EXTERIOR ABOVE GROUND.
4. REINFORCEMENT SHALL BE TIED INTO POSITION AND SUPPORTED ON APPROVED PLASTIC OR PLASTIC TIPPED WIRE CHAIR AS FOLLOWS:-
- (I) BARS UP TO N12 AND FABRIC - 800mm CENTRES.
- (II) BARS N16 AND LARGER - 1200mm CENTRES.
5. WELDING AND BENDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
6. LAPS UNLESS SHOWN OTHERWISE: FABRIC 1 COMPLETE MESH.

REINFORCING LAP SCHEDULE					
BAR Ø	FOOTING LAP		BEAM LAP		COLUMN LAP
	BTM	TOP	BTM	TOP	
N12	500	650	500	650	500
N16	750	1000	750	1000	750
N20	1000	1300	1000	1300	1000
N24	1250	1600	1250	1600	1250
N28	1500	1950	1500	1950	1500
N32	1800	2300	1800	2300	1800
N36	2100	2700	2100	2700	2100
N40	2450	3150	2450	3150	2450

- NOTE:
- THIS TABLE SHOULD BE USED UNLESS LAP LENGTHS ARE NOTED OTHERS ON DETAILS OR PLAN.
 - SLAB LENGTHS PROVIDED IN TABLE ABOVE ARE SUITABLE FOR EXPOSURE CLASSIFICATIONS: A1, A2, B1 & B2, AS PER AS3600-2009.
 - THE LAPS PROVIDED IN THIS TABLE ARE NOT SUITABLE FOR EXPOSURE CLASSIFICATION 'U'. AS PER AS3600-2009. THESE CONDITIONS ARE FOR MEMBERS IN AGGRESSIVE SOIL AND IN SOFT OR RUNNING WATER.

7. CONSTRUCTION JOINTS SHALL BE SCABBED AND CLEANED AND COATED WITH CEMENT/WATER SLURRY IMMEDIATELY PRIOR TO PLACING CONCRETE.
8. CONCRETE SHALL BE COMPACTED USING MECHANICAL VIBRATORS.
9. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS BY A METHOD APPROVED BY THE ENGINEER.
10. CONDUITS, PIPES ETC. MUST NOT BE PLACED IN THE CONCRETE COVER AND NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS UNLESS APPROVED BY THE ENGINEER.
11. FORMWORK SHALL COMPLY WITH AS3610 "FORMWORK FOR CONCRETE" AND ALL RELEVANT CONSTRUCTION SAFETY LEGISLATION. UNLESS OTHERWISE NOTED FINISHES SHALL BE CLASS 2. MINIMUM FORMWORK STRIPPING TIMES SHALL BE IN ACCORDANCE WITH TABLE 5.4.1 OF AS3610 "FORMWORK OF CONCRETE".
12. CONTROL JOINTS SHALL BE CONSTRUCTED AS SPECIFIED. SAW CUTTING SHALL BE CARRIED OUT WITHIN 4 HOURS OF CONCRETE HARDENING.
13. CONCRETE TEST CYLINDERS SHALL BE PREPARED AS REQUIRED BY THE SUPERVISOR AND TESTED BY A NATA REGISTERED LABORATORY.
14. ALLOWANCE SHALL BE MADE IN ALL ARCHITECTURAL FINISHES FOR MOVEMENT IN CONSTRUCTION JOINTS AND EXPANSION JOINTS.
15. ALL BRITTLE FLOOR COVERINGS SHALL BE FIXED WITH FLEXIBLE ADHESIVES.
16. PROVIDE AN ELECTRICAL BOND BETWEEN WALL REINFORCEMENT & SLAB REINFORCEMENT IN WET AREAS IN ACCORDANCE WITH THE AUSTRALIAN STANDARD WIRING RULES.
17. ELECTRICAL CONDUITS TO BE PLACED AT 15 X AGGREGATE SIZE APART.

ENGINEERED TIMBER TRUSS ROOF SYSTEM

1. THE BUILDER SHALL BE RESPONSIBLE TO OBTAIN, FROM THE TRUSS MANUFACTURER, A CERTIFICATE WITH CLEARLY STATED DESIGN ASSUMPTIONS BASED ON THE SERVICE LOADS MENTIONED ABOVE, AND CERTIFICATION FOR ALL TRUSSES TO TRUSS CONNECTIONS AND FORWARD THESE TO THE ENGINEER FOR APPROVAL, BEFORE COMMENCING ANY BUILDING WORKS THAT COULD BE AFFECTED BY THESE VARIABLES.
2. TRUSS DETAILER TO SPECIFY THIS BUILDING AS "HOUSE/COMMERCIAL/POST DISASTER" IN DETAILING SOFTWARE (IN ACCORDANCE WITH AS1720.1-2010 TABLE 2.1)
3. ALL TRUSS TIMBER IS TO BE JOINT GROUP JO4 OR BETTER & TREATED TO H2 LEVEL UNLESS NOTED OTHERWISE. TRUSS NAIL PLATES, TRUSS TO TRUSS CONNECTORS TO BE GALVANIZED.
4. STEEL BRACING MEMBERS ARE TO BE GALVANIZED.
5. DESIGN AND CONSTRUCT THE ROOF TRUSSES FOR INTEGRATION WITH THE REST OF THE STRUCTURE.
6. UNLESS STATED OTHERWISE ON ENGINEER'S STRUCTURAL DRAWINGS OR SPECIFICATIONS, ROOF TRUSSES SHALL BE DESIGNED ASSUMING THE SUPPORTING STRUCTURE IS STABLE IN IT'S OWN RIGHT.
7. UNLESS STATED OTHERWISE, DESIGN SCISSOR TRUSSES WITH ONE ROLLER SUPPORT TO AVOID ADDITIONAL PUSH-OUT HORIZONTAL FORCES ONTO SUPPORT.
8. SPAN TRUSSES ONLY BETWEEN THE NOMINATED SUPPORTS/HOLD DOWN POSITIONS INDICATED ON STRUCTURAL DRAWINGS. ANY ALTERATION TO THIS LAYOUT IS TO BE CONFIRMED IN WRITING WITH THE ENGINEER.
9. MANUFACTURER TO SUPPLY TRUSS LAYOUT WITH CLEARLY MARKED "TRUSS HOLD DOWN POSITIONS" AND PERMANENT BRACING FOR THE ROOF TRUSS SYSTEM.
10. THE TIMBER TRUSS ROOF SYSTEM CONSISTS OF THE TRUSSES TOGETHER WITH FASTENERS, TRUSS TO TRUSS CONNECTORS, TEMPORARY AND PERMANENT BRACING AND LATERAL RESTRAINTS OF TOP AND BOTTOM CHORDS.
11. THE ROOF TRUSS SYSTEM SHALL BE ERECTED AND BRACED AND FIXED TO GABLE ENDS AND INTERNAL BRACING WALLS IN ACCORDANCE WITH: AS4440-2004 "INSTALLATION OF NAILED ROOF TRUSSES" AND AS1684 "RESIDENTIAL TIMBER FRAMED CONSTRUCTION". ENGINEER'S STRUCTURAL DESIGN DRAWINGS AND SPECIFICATION, TRUSS MANUFACTURER'S LAYOUT AND SPECIFICATION OF REQUIRED LATERAL RESTRAINT OF TOP AND BOTTOM CHORDS.

STRUCTURAL STEELWORK

1. ALL STEELWORK INCLUDING CONNECTORS SHALL BE IN ACCORDANCE WITH AS4100 "STEEL STRUCTURES CODE" AND AS/NZS 4600-1996 "COLD FORMED STEEL STRUCTURES".
2. STEEL SHALL BE: AS3679 GRADE 300 GENERALLY, AS1163 GRADE 250 FOR CIRCULAR HOLLOW SECTIONS, AS1163 GRADE 350 FOR RECTANGULAR HOLLOW SECTIONS, AS1997 GRADE 450 TO GRADE 500 2200 FOR STEEL PURLINS & GIRTS, BOLTS SHALL COMPLY WITH AS10, AS11H, AS11Z, AS1252 AS APPROPRIATE. WELDS SHALL COMPLY WITH AS1554.
3. ABRASIVE CLEANING PRIOR TO PAINTING SHALL BE TO AS16274 CLASS 2.5. PAINTING SHALL BE ONE COAT 0.75mm TWO PACK MORGANIC AIR CURED ZINC SILKATE COATING APPLIED WITHIN 2 HOURS OF ABRASIVE CLEANING, UNLESS SPECIFIED OTHERWISE. PAINTING SHALL BE TO MANUF. SPECS. AND THE PAINTER SHALL ENSURE THE METHOD OF APPLICATION IS COMPATIBLE WITH CONNECTION TYPE AND PAINT SPECIFIED.
4. GALVANIZING SHALL BE HOT DIPPED TO AS4680.
5. BOLTS SHALL BE GALVANIZED AND OF SUFFICIENT LENGTH TO EXCLUDE THE THREAD FROM THE SHEAR PLANE. A SUITABLE WASHER SHALL BE USED UNDER ALL NUTS.
6. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING SHALL APPLY:
- (I) CLEATS, BRACKETS, STIFFENERS ETC. - EX10mm PLATE.
- (II) WELDING - 6mm CONTINUOUS FILLET TO FULL PERIMETER AT CONTACT.
- (III) BOLT HOLE CLEARANCE - 2mm.
- (IV) BUTT WELDS SHALL BE QUALIFIED COMPLETE PENETRATION IN ACCORDANCE WITH AS1554.
- (V) 6mm END PLATES TO ALL HOLLOW MEMBERS.
- (VI) CONNECTIONS - MINIMUM OF 2/M20 8.8 BOLTS.
7. ALL WELDING TO BE CATEGORY "SP". CONSUMABLES SHALL BE E48XX OR W50X ELECTRODES.
8. FABRICATOR SHALL ALLOW FOR ALL CLEATS AND OTHER FIXINGS REQUIRED BY THE SUPERVISOR.
9. MORTAR SHALL BE 1 CEMENT: 2 SAND MIXED "JUST MOIST" AND RAMPED SOLID.
10. ALL LAPS, FINISHES AND ACCESSORIES TO PURLINS AND GIRTS ARE TO BE STRICTLY IN ACCORDANCE WITH MANUF. SPECS.
11. GALVANIZED/HOT DIPPED GALVANIZED OR STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH AS2124.
12. APPLY ZINC ROD FINISHING WELD, SUCH AS "BOSS GALVANIZING BAR" TO REINSTATE GALVANIZING AFTER WELDING - TYPICAL ALL GALVANIZED SURFACES.
13. THE CHECKING OF SHOP DRAWINGS IS NOT INCLUDED IN OUR SCOPE OF WORKS. SHOULD THE BUILDER REQUIRE STP CONSULTANTS TO COMMENT ON THE STRUCTURAL STEEL SHOP DRAWINGS, THE BUILDER WILL NEED TO ENGAGE STP CONSULTANTS TO DO SO. STP CONSULTANTS WILL REQUIRE 5 BUSINESS DAYS AFTER RECEIVING ALL SHOP DETAIL DRAWINGS FOR STP CONSULTANTS TO RETURN COMMENTS.

ELECTRONICALLY TRANSFERRED DRAWINGS

1. STP CONSULTANTS ACCEPTS NO RESPONSIBILITY FOR A DRAWING THAT HAS BEEN AMENDED IN ANY WAY BY ANOTHER PARTY.
2. STP CONSULTANTS ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.
3. STP CONSULTANTS RETAINS THE FULL OWNERSHIP OF ALL COMPONENTS AND OBJECTS WITHIN REVIT MODELS.
4. ANY PART OF STP DRAWINGS COPIED FROM ELECTRONICALLY TRANSFERRED DRAWINGS BECOME THE RESPONSIBILITY OF THE RECIPIENT.
5. PDF DOCUMENTS WILL ALWAYS TAKE PRECEDENCE OVER ELECTRONICALLY TRANSFERRED EDITABLE FILES. RECIPIENTS SHOULD WHEN NECESSARY REQUEST A PDF COPY VERSION FOR VERIFICATION.

HEALTH AND SAFETY

1. THE CONTRACTOR SHALL DEVELOP, IMPLEMENT AND ADMINISTER A WORKPLACE HEALTH AND SAFETY PROGRAM THAT WILL ENSURE THAT ALL CONSTRUCTION ACTIVITIES ARE PERFORMED TO THE RELEVANT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND ANY OTHER STATUTORY REQUIREMENTS.
2. THE WORKPLACE HEALTH AND SAFETY PROGRAM MUST BE COORDINATED WITH ADJOINING PROPERTY OWNERS AND ALL RELEVANT PARTIES AS NECESSARY TO ENSURE A SAFE BUILDING ENVIRONMENT AT ALL TIMES.

TEMPORARY WORKS

1. THE CONTRACTOR SHALL ALLOW FOR ALL COSTS ASSOCIATED WITH THE DESIGN, SUPPLY, INSTALLATION AND REMOVAL OF ALL TEMPORARY BACK PROPPING, SAFETY SCREENS, SCAFFOLDING AND OTHER REQUIREMENTS OF THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL ENGAGE SUITABLY QUALIFIED ENGINEER REFERRED TO AS "CONTRACTS ENGINEER" TO DESIGN, INSPECT AND CERTIFY ALL TEMPORARY WORKS AND DEMOLITION WORKS.
2. THE CONTRACTOR IS TO PROVIDE ALL TEMPORARY WORKS CONTRACTOR ENGINEERING DRAWINGS TO THE STRUCTURAL ENGINEER FOR INFORMATION.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THE OVERALL STABILITY OF THE STRUCTURE WHILST UNDER CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ADVICE FROM THE CONTRACTS ENGINEER.
4. THE CONTRACTOR IS TO HAVE THE CONSTRUCTION METHODOLOGY STATEMENTS PREPARED AND SUBMITTED FOR GENERAL REVIEW TO ENSURE IT IS IN ACCORDANCE WITH THE DESIGN INTENT.
5. ALL VERTICAL DISPLACEMENT AND MOVEMENTS ARE TO BE LIMITED TO ENSURE THE STRUCTURE IS NOT SUBJECTED TO LOADS OR MOVEMENTS CAUSING STRUCTURAL DISTRESS TO ANY ELEMENT WHILE THE STRUCTURE IS BEING TEMPORARILY SUPPORTED.
6. DEPENDING ON THE CONTRACTORS PREFERRED CONSTRUCTION SEQUENCE, PRE-LOADING OF STRUCTURAL ELEMENTS MAY BE REQUIRED TO LIMIT TOTAL VERTICAL DISPLACEMENT.
7. STRUCTURE TO BE ADEQUATELY BRACED TO PREVENT ANY HORIZONTAL MOVEMENT OR DEFLECTIONS.

ENGINEERED STEEL TRUSS ROOF SYSTEM

1. THE BUILDER SHALL BE RESPONSIBLE TO OBTAIN, FROM THE TRUSS MANUFACTURER, A CERTIFICATE WITH CLEARLY STATED DESIGN ASSUMPTIONS BASED ON THE SERVICE LOADS MENTIONED ABOVE, AND CERTIFICATION FOR ALL TRUSSES TO TRUSS CONNECTIONS AND FORWARD THESE TO THE ENGINEER FOR APPROVAL, BEFORE COMMENCING ANY BUILDING WORKS THAT COULD BE AFFECTED BY THESE VARIABLES.
2. TRUSS DETAILER TO SPECIFY THIS BUILDING AS "HOUSE/COMMERCIAL/POST DISASTER" IN DETAILING SOFTWARE (IN ACCORDANCE WITH AS1720.1-2010 TABLE 2.1)
3. STEEL BRACING MEMBERS ARE TO BE GALVANIZED.
4. DESIGN AND CONSTRUCT THE ROOF TRUSSES FOR INTEGRATION WITH THE REST OF THE STRUCTURE.
5. UNLESS STATED OTHERWISE ON ENGINEER'S STRUCTURAL DRAWINGS OR SPECIFICATIONS, ROOF TRUSSES SHALL BE DESIGNED ASSUMING THE SUPPORTING STRUCTURE IS STABLE IN IT'S OWN RIGHT.
6. UNLESS STATED OTHERWISE, DESIGN SCISSOR TRUSSES WITH ONE ROLLER SUPPORT TO AVOID ADDITIONAL PUSH-OUT HORIZONTAL FORCES ONTO SUPPORT.
7. SPAN TRUSSES ONLY BETWEEN THE NOMINATED SUPPORTS/HOLD DOWN POSITIONS INDICATED ON STRUCTURAL DRAWINGS. ANY ALTERATION TO THIS LAYOUT IS TO BE CONFIRMED IN WRITING WITH THE ENGINEER.
8. MANUFACTURER TO SUPPLY TRUSS LAYOUT WITH CLEARLY MARKED "TRUSS HOLD DOWN POSITIONS" AND PERMANENT BRACING FOR THE ROOF TRUSS SYSTEM.
9. THE TRUSS ROOF SYSTEM CONSISTS OF THE TRUSSES TOGETHER WITH FASTENERS, TRUSS TO TRUSS CONNECTORS, TEMPORARY AND PERMANENT BRACING AND LATERAL RESTRAINTS OF TOP AND BOTTOM CHORDS.
10. THE ROOF TRUSS SYSTEM SHALL BE ERECTED AND BRACED AND FIXED TO GABLE ENDS AND INTERNAL BRACING WALLS.

PROTECTIVE COATING SPECIFICATION

MIN. PROTECTION COATING FOR STEEL WORK.

- EXTERNAL:
- OPTION 1: 2/COATS ALKYLID PRIMER.
- OPTION 2: 2/COATS ALKYLID GLOSS.
- OPTION 3: HOT DIPPED GALVANISED MIN. 300g/m².
- OPTION 4: HOT DIPPED GALVANISED MIN. 100g/m² PLUS 1/COAT SOLVENT BASED VINYL PRIMER 'OR' 1/COAT VINYL GLOSS OR ALKYLID.

REFER DULUX PROTECTIVE COATINGS SPECIFICATION DOCUMENT No. QLD-100809 FOR PROJECT SPECIFIC REQUIREMENTS AND WARRANTY INFORMATION.

- NOTE:
- CONSULT WITH PAINT SUPPLIER FOR APPROPRIATE ALTERNATIVE PAINT SOLUTIONS, MAINTENANCE REQUIREMENTS AND WARRANTY INFORMATION.
 - ALL SITE WELDS TO BE TREATED WITH PAINT OR ZINC ROD FINISHING WELD.

BARCODE		
THIS DRAWING ISSUE IS BASED ON THE ARCHITECTURAL DRAWINGS/IFC DATED 13/11/18 RECEIVED BY THIS OFFICE. REVISED ARCHITECTURAL DRAWINGS WERE NOT COORDINATED BY STP CONSULTANTS PRIOR TO ISSUING THESE DRAWINGS.		
AMENDMENTS		
ISSUE	DATE	SUBJECT
A	24.09.18	TENDER ISSUE
B	19.10.18	REVISED TENDER ISSUE
C	15.11.18	CONSTRUCTION ISSUE
DRAWINGS INDEXING SYSTEM FOR BUILDING AND ASSET SERVICES USE ONLY		
☐ AIR CONDITIONING	☐ COLD ROOMS	☐ ELECTRICAL COMPONENTS
☐ FIRE SERVICES	☐ FUEL STORAGE/RETICULATION	☐ GAS STORAGE/RETICULATION
☐ HOT WATER	☐ INDUSTRIAL VENTILATION	☐ KITCHEN EQUIPMENT
☐ LABORATORY/MEDICAL EQUIPMENT	☐ LAUNDRY EQUIPMENT	☐ LEGEND
☐ MECHANICAL	☐ OTHER NOTES	☐ POOL SYSTEMS
☐ STANDARDS	☐ STEAM	☐ VENTILATION
 Queensland Government		
Department of Housing and Public Works		
Building and Asset Services		
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JH	15.11.18	
DRAWN	DATE	
AJF	15.11.18	
DISCIPLINE TEAM LEADER	DATE	
AJF	15.11.18	
AUTHORISED FOR ISSUE	DATE	
PIMLICO CAMPUS REDEVELOPMENT		
D BLOCK EXTENSION		
STRUCTURAL NOTES		
SCALE: As indicated AT B1 SIZE		
MASTER SITE NUMBER 29919		CLIENT REFERENCE NUMBER 84815
DRAWING NUMBER	ISSUE	
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