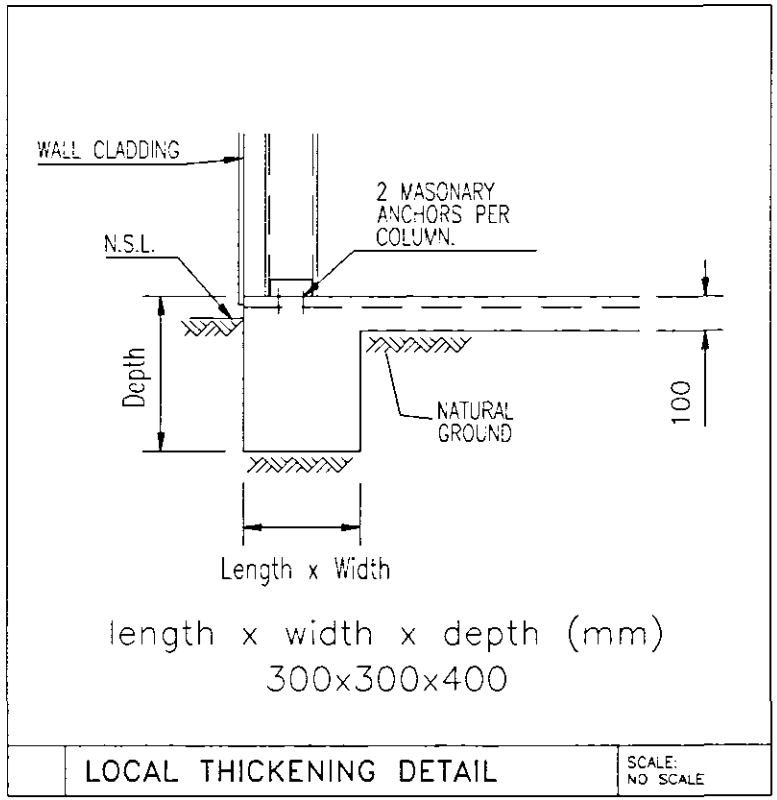



LOCAL THICKENING DETAIL | SCALE: NO SCALE

## STRUCTURAL GENERAL NOTES

1. **GOVERNING CODE:**
BUILDING ACT 1984 - BUILDING REGULATIONS 2000, LOADING TO APPROVED DOCUMENT A1, AS1170.1:1998 DEAD AND IMPOSED LOADS, AS1170.2:1998 WIND LOADS AND AS1170.3:1998 IMPOSED ROOF LOADS.

2. **DRAWING OWNERSHIP:**
THESE DRAWINGS REMAIN THE PROPERTY OF HI-TECH DESIGNS PTY. LTD (HI-TECH). ENGINEERING SIGNATURE AND CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF HI-TECH. DRAWINGS ARE PROVIDED FOR THE SOLE PURPOSE OF OBTAINING BUILDING PERMITS AND ADDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM HI-TECH.

3. **DRAWING SIGNATURE REQUIREMENTS:**
THESE DRAWINGS ARE NOT VALID UNLESS SIGNED BY THE ENGINEER. THE ENGINEER ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DRAWINGS WITHOUT A SIGNATURE. EACH TITLE BLOCK CONTAINS A WATER MARK UNDER THE CUSTOMERS NAME CONTAINING THE DATE OF PRODUCTION OF THE DRAWINGS; THE DRAWINGS ARE TO BE SUBMITTED TO COUNCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.

4. **CONTRACTOR RESPONSIBILITIES:**
CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND DIMENSIONS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF WORK. CONTRACTOR MUST NOT MAKE ANY DEVIATION FROM THE PROVIDED PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM ONE THE UNDERSIGNING ENGINEERS. THE ENGINEER / HI-TECH TAKE NO RESPONSIBILITY FOR CHANGES MADE WITHOUT WRITTEN APPROVAL.
CONTRACTOR IS RESPONSIBLE FOR ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED DURING CONSTRUCTION.
BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS SHOWN IS COMPLETED IN ACCORDANCE WITH THESE DRAWINGS.
THE INDICATED DRAWING SCALES ARE APPROXIMATE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES.
FOR FUTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.

5. **ENGINEERING:**
THE ENGINEER / HI-TECH ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT DURING CONSTRUCTION.
THE UNDERSIGNING ENGINEERS HAVE REVIEWED THIS BUILDING FOR CONFORMITY ONLY TO THE STRUCTURAL DESIGN PORTIONS OF THE GOVERNING CODE. THE PROJECT MANAGER IS RESPONSIBLE FOR ADDRESSING ANY OTHER CODE REQUIREMENTS APPLICABLE TO THIS DEVELOPMENT.
THESE DOCUMENTS ARE STAMPED ONLY AS TO THE COMPONENTS SUPPLIED BY HI-TECH. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY HI-TECH WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY HI-TECH SHALL GOVERN.

6. **INSPECTIONS:**
NO SPECIAL INSPECTIONS ARE REQUIRED BY THE GOVERNING CODE OR THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL BUILDING DEPARTMENT SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.

7. **SOIL REQUIREMENTS:**
SOIL SAFE BEARING CAPCITY VALUE INDICATED ON DRAWING SHEET 4 OCCURS AT 150mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION.REGARDLESS OF DETAIL Y ON SHEET 4 THE MINIMUM FOUNDATION DEPTH SHOULD BE 100MM INTO NATURAL GROUND OR BELOW FROST DEPTH SPECIFIED BY LOCAL COUNCIL.
ROLLED OR COMPACTED FILL MAY BE USED UNDER SLAB, COMPACTED IN 150mm LAYERS TO A MAXIMUM DEPTH OF 900mm.
CONCRETE FOUNDATION EMBEDMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE WALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.

8. **CONCRETE REQUIREMENTS:**
ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS3600:1988 AND AS1379-1:1999. CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPa FOR SITES WITH THE MINIMUM 0.5kPa ROOF LOAD, AND 30MPa FOR SITES EXPOSED TO HIGHER SNOW LOADINGS. MAX AGGREGATE SIZE OF 10mm. SLUMP TO BE 80mm +-15mm. SLABS TO BE CURED FOR 7DAYS BY WATERING OR COVERING WITH A PLASTIC MEMBRANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN BOLT DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF F72 REINFORCING MESH IS TO BE INSTALLED ON STANDARD SLABS WITH A MINIMUM 30mm COVER FROM CONCRETE SURFACE. CONCRETE REINFORCING TO CONFORM TO LOCAL STANDARDS, AND HAVE A MINIMUM COVER OF 50mm.

9. **STRUCTURAL STEEL REQUIREMENTS:**
ALL STRUCTURAL STEEL, INCLUDING EXISTING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS3950.
NO WELDING IS TO BE PERFORMED ON THIS BUILDING.
ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS3950-1:1990. ALL BOLT HOLE DIAMETERS AND HOLE LOCATIONS TO HI-TECH GENERAL FABRICATING.

### PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.5 kPa
WIND REGION: 22 m/s
TERRAIN CATEGORY: Country
SEISMIC ZONE: 4
SOIL SAFE BEARING CAPACITY: 100 kPa

### DETAIL KEYS

- (A) ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)
- (B) FLYBRACING PER DETAIL L/5
- (C) X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

### DOOR SCHEDULE

| DOOR | WIDTH | HEIGHT | OPENING TYPE | HEADER G.R.T. | OPENING JAMBS |
|---|---|---|---|---|---|
| (1) | 2700 | 3055 | 1.088m x 1.730 SERIES A ROLL UP DOOR | SINGLE | |

NOTES: 1) SEE SHEET 3 FOR DOOR OPENING FRAMING INFORMATION
2) ALL DOOR SCHEDULE MEASUREMENTS ARE ACTUAL DOOR/WINDOW SIZE NOT OPENING SIZE.

Actual Size
9.5 metre wide
12 metre Long

SHEET 4 OF 5 | JOB NO. KGRN10R15 | DATE 24/8/2004 | CHECKED AM | DRAWN AGS

STEEL BUILDING BY GREENS CONSTRUCTIONS
FOR SAMPLE USA BARN 9.5 X 7
AT SAMPLE TOWN NO TOWN

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Registered in the Category of Structural