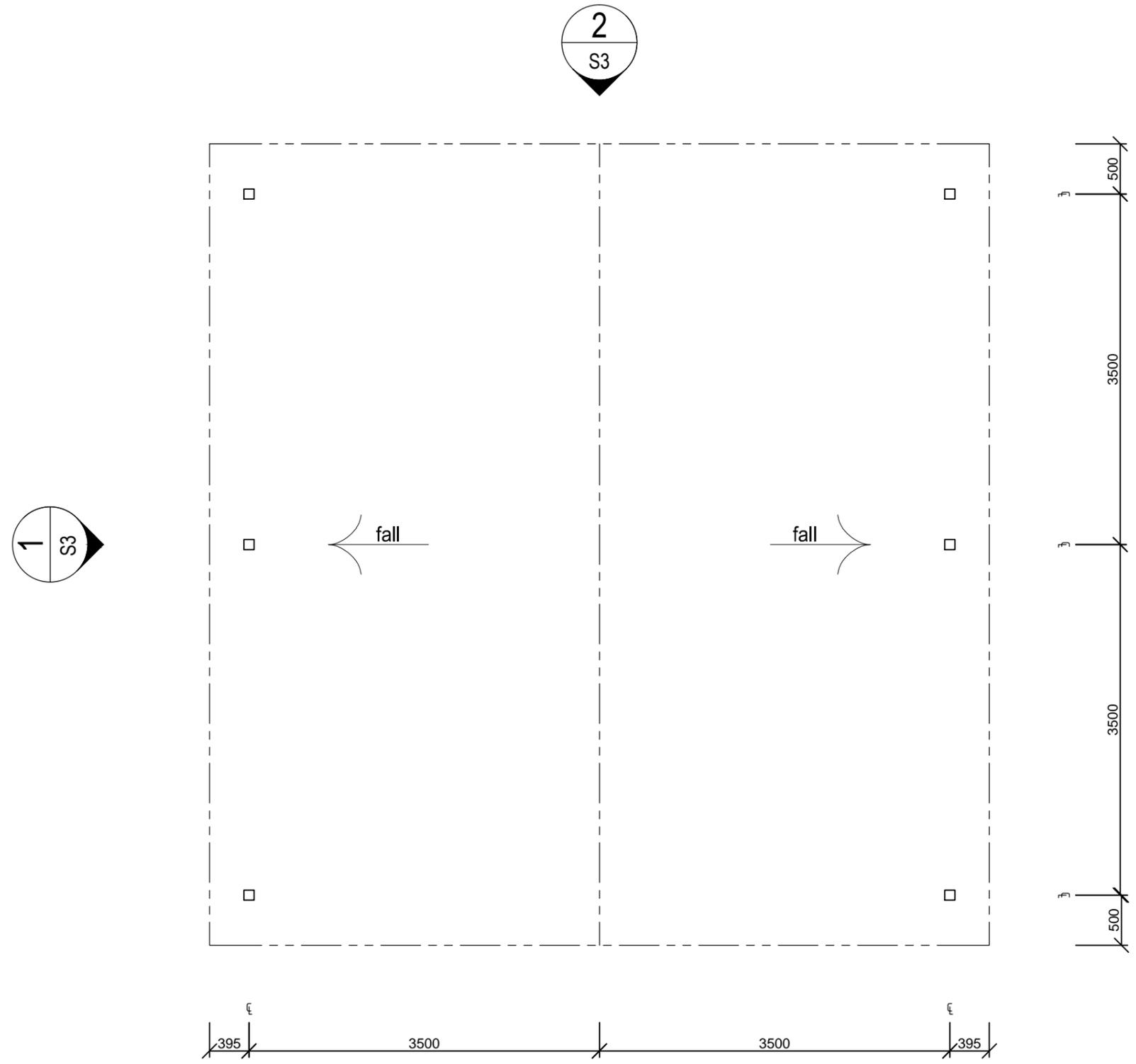


**LEGEND**

----- ROOF OUTLINE



**GROUND FLOOR PLAN**  
SCALE: 1:50

-	ISSUE FOR STRUCTURAL APPROVAL	12-05-2017	MC	NTCE
No.	DESCRIPTION	DATE	NAME	DEPT/COMPANY.
	AMENDMENTS			

**NT Consulting Engineers**  
 N.T. Consulting Engineers  
 ABN 73 102 631 186  
 P.O. Box 900  
 COOLALINGA 0839  
 Northern Territory, Australia  
 Mobile: 0427 411 633 Email: ntce@westnet.com.au

DRAWN PC DATE 12-05-2017	CHECKED MC DATE 12-05-2017
DESIGNED PC DATE 12-05-2017	CHECKED MC DATE 12-05-2017
DESIGN PROJECT LEADER DATE 12-05-2017	PROJECT OFFICER G. JAMES DATE 12-05-2017

STRUCTURALLY CONSIDERED  
*Michael Cooper*  
 ZTEBES

PROPOSED CARPORT LOT 7 (609) REEDBEDS Rd., DARWIN RIVER GARY JAMES GROUND FLOOR PLAN					
FILE No. -	ASSET No. -	SHEET No. 2 of 6	DRAWING No. U256134-S2	AMEND. -	SHEET SIZE A3

+ 4229 RIDGE

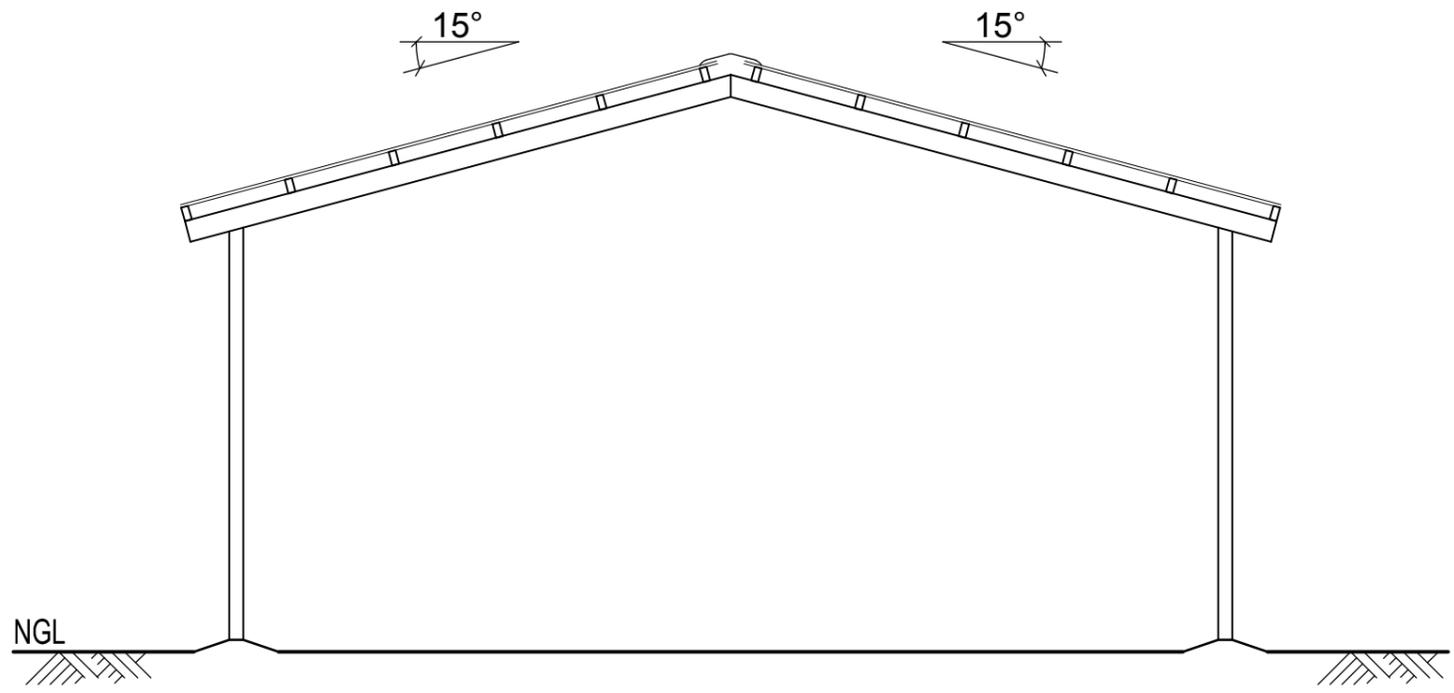
+ 3000 Top of Col

±0.00 NGL

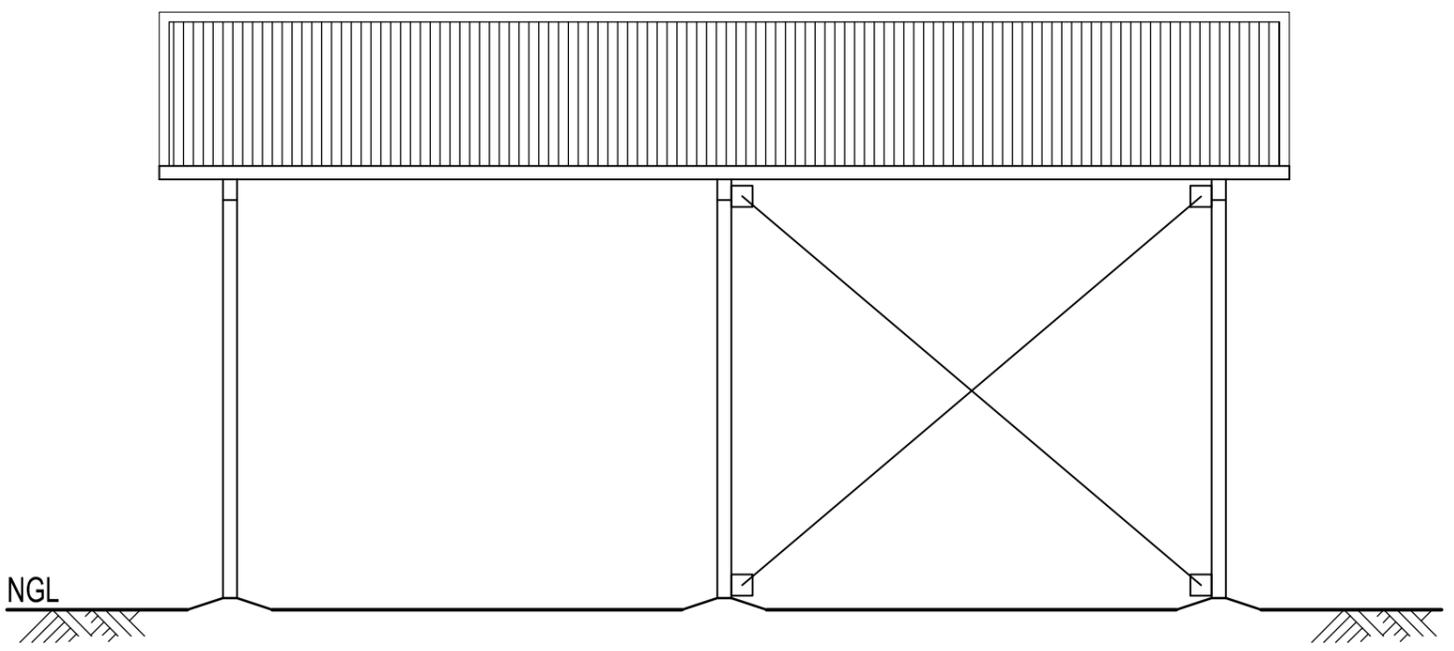
+ 4229 RIDGE

+ 3000 Top of Col

±0.00 NGL



**ELEVATION 1**  
SCALE 1:50



**ELEVATION 2**  
SCALE 1:50

No.	DESCRIPTION	DATE	NAME	DEPT./COMPANY.
-	ISSUE FOR STRUCTURAL APPROVAL	12-05-2017	MC	NTCE
AMENDMENTS				



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STRUCTURALLY CONCURRED  
*Michael Cooper*  
 ZTEBES

DRAWN PC DATE 12-05-2017	CHECKED MC DATE 12-05-2017
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DESIGN PROJECT LEADER	PROJECT OFFICER G. JAMES
DATE 12-05-2017	DATE 12-05-2017

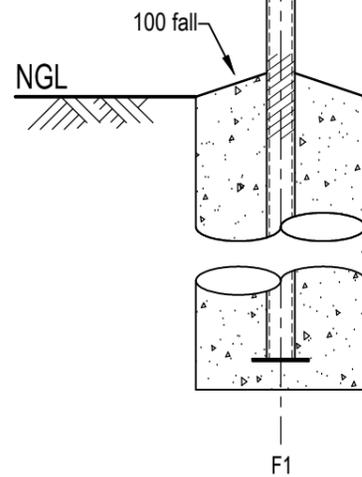
PROPOSED CARPORT  
 LOT 7 (609) REEDBEDS Rd., DARWIN RIVER  
 GARY JAMES  
 ELEVATION 1 & 2

FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.	SHEET SIZE
-	-	3 OF 6	U256134-S3	-	A3

100 x 50 x 2 RHS PURLINS @ 900 CRS MAX

0.42 BMT TRIMDEK ROOF SHEETING CREST FIX AS PER DTC M/313/1

FPBW @ RIDGE FOR FULL PERIMETER OF CONTACT CROSS SECTION



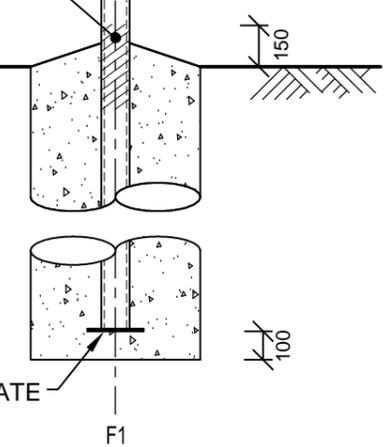
**FOOTING ALTERNATIVE:**  
 PROVIDE 200 SQ x 10 B/P  
 4-N12 TAGS PLUG & FW TO B/P:  
 COG 50 @ ENDS. SPLAY TOWARD  
 OUTSIDE OF FOOTING. FULLY  
 GALVANISE ASSEMBLY:  
 300 gsm

CARPORT

**SECTION A**  
 SCALE: 1:25  
 TYPICAL

BITUMEN EPOXY 300

200 SQ. x 10 BASEPLATE



-	ISSUE FOR STRUCTURAL APPROVAL	12-05-2017	MC	NTCE
No.	DESCRIPTION	DATE	NAME	DEPT./COMPANY.
	AMENDMENTS			



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STRUCTURALLY CONCURRED  
*Michael Cooper*  
 ZTEBES

DRAWN	PC	CHECKED	MC
DATE	12-05-2017	DATE	12-05-2017
DESIGNED	PC	CHECKED	MC
DATE	12-05-2017	DATE	12-05-2017
DESIGN PROJECT LEADER		PROJECT OFFICER	G. JAMES
DATE	12-05-2017	DATE	12-05-2017

PROPOSED CARPORT				
LOT 7 (609) REEDBEDS Rd., DARWIN RIVER				
GARY JAMES				
SECTION A				
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
-	-	6 OF 6	U256134-S6	-
				SHEET SIZE: A3

**NORTHERN TERRITORY OF AUSTRALIA  
BUILDING ACT  
SECTION 40 – CERTIFICATE OF COMPLIANCE – STRUCTURAL DESIGN**

*All sections must be completed – mark N/A to any question that does not apply*

<b>PROPERTY / PROJECT DETAILS</b>	
Owner (if known):	
Lot/Portion Number: <b>7</b>	Address: <b>609 Reedbeds Rd</b>
Location: <b>Berry Springs</b>	Town / Hundred : <b>Cavenagh</b>
Description of works :	
<b>Proposed Carport</b>	

<b>DOCUMENTS ATTACHED</b>
Drawing Nos: <b>NTCE Dwg No.'s U256134-S1:S6</b>
Other:

<b>DESIGN BASIS</b> (please list relevant Standards used in the design)			
<b>AS1170, AS4100, AS3600, AS3700, AS4600, AS AS2870, AS1554, AS1312, AS3850</b>			
Class of Building (BCA): <b>10a</b>	Type of Construction (BCA volume 1 §C1.1): (eg. Type A fire-resisting construction) <b>n/a</b>		
Building Importance Level (BCA Table B1.2a): <b>II</b>	Annual Probability of Exceedance for Wind (BCA Table 1.2b): <b>1 in 500</b>		
Region: <b>C</b>	Regional ultimate wind speed $V_R$ (m/s): <b>69</b>	Terrain Category: <b>2.5</b>	Reference height (m): <b>3.7</b>
$M_{z,cat}$ : <b>0.88</b>	$M_s$ : <b>1.0</b>	$M_t$ : <b>1.0</b>	$V_{desg}$ Design Wind Speed at reference height (m/s): <b>61</b>
Internal Pressure Coefficients ( $C_{p,i}$ ):	<b>To AS 1170.2 Section 5.3 &amp; Table 5.1</b>		
External Pressure Coefficients ( $C_{p,e}$ )	Walls	<b>To AS 1170.2 Section 5.4 &amp; Appendix C</b>	
	Roof	<b>To AS 1170.2 Section 5.4 &amp; Appendix C</b>	
Net Pressure Coefficients: ( $C_{p,n}$ )	Roof / Walls	<b>To AS 1170.2 Appendix D</b>	
Imposed Loads, kPa	Floor / Roof	<b>To AS 1170.1</b>	
Earthquake Design Category, EDC (Table 2.1 of AS 1170.4): <b>n/a</b>			
Annual Probability of Exceedance for Earthquake Actions (BCA Table 1.2b): <b>1 in n/a</b>			
Importance Level (BCA): <b>n/a</b>		Hazard Factor, Z (Section 3): <b>n/a</b>	
Safe Foundation Bearing Capacity, kPa: <b>100</b>		Class of Sub-Soil (Section 4): <b>n/a</b>	
Site classification (AS2870): <b>S</b> to be confirmed prior to construction			

<b>COMMENTS / EXCLUSIONS</b> (Exclusions to this Certificate must be clearly identified).
The following items are excluded and shall be certified separately:
Comments:

<b><u>CERTIFICATION BY STRUCTURAL ENGINEER</u></b>			
<b>Company Name</b> if certification issued on behalf of a corporation		<b>Company NT Registration Number</b>	
I certify that reasonable care has been taken to ensure that the structural engineering aspects of the works as described above have been designed in accordance with the requirements of the Building Code of Australia and the Northern Territory Building Regulations.			
<b>Name</b> (see *below) <b>Michael Cooper</b>	<b>Nominee/Individual NT Registration Number</b> <b>21133ES</b>	<b>Signature</b> 	<b>Date</b> <b>16 May, 2017</b>

## **SCHEDULE OF STRUCTURAL INSPECTIONS REQUIRED**

Inspection of construction is required at the stages indicated below.

- 1. Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete.
- 2. Completion of preparations for placing of concrete strip footings including placement of reinforcement.
- 3. Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.
- 4. Completion of preparations for placing of concrete pier footings including reinforcement (if any).
- 5. Starter bars and cast in items after placing of concrete and prior to any covering up work.
- 6. Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).
- 7. Structural steelwork and cold formed steelwork completed and prior to any covering up work. Floor framing system completed before floors are laid or underside is lined.
- 8. Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.
- 9. Wall framing or blockwork wall core filling completed (with windows fixed in place) and roof framing with connections completed and prior to sheeting or lining.  
  
Note:  Prior lodgement of truss manufacturer's drawings, details and certification required.  
 Prior lodgement of windows manufacturer's drawings including fixings and certification required.
- 10. Structural wall linings completed and prior to any covering up work.
- 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges & vents.
- 12. Other Inspections as required by the building permit

### **Important Information:**

- 1) The above inspections are required to be carried out by either the certifying engineer or the building certifier who issued the Building Permit for the work. (If no inspections are indicated refer to the certifying engineer for advice).
- 2) Where works are prescribed building works under the *NT Building Act*, the building certifier must be provided with a copy of the inspection record and no further works must be carried out by the builder until the building certifier issues a release to proceed with further works.
- 3) Additional non structural inspections may be required during the course of construction before the issue of an Occupancy Permit (refer to building certifier for requirements).
- 4) Failure to obtain inspections may prevent the issue of an Occupancy Permit upon completion of the building works.