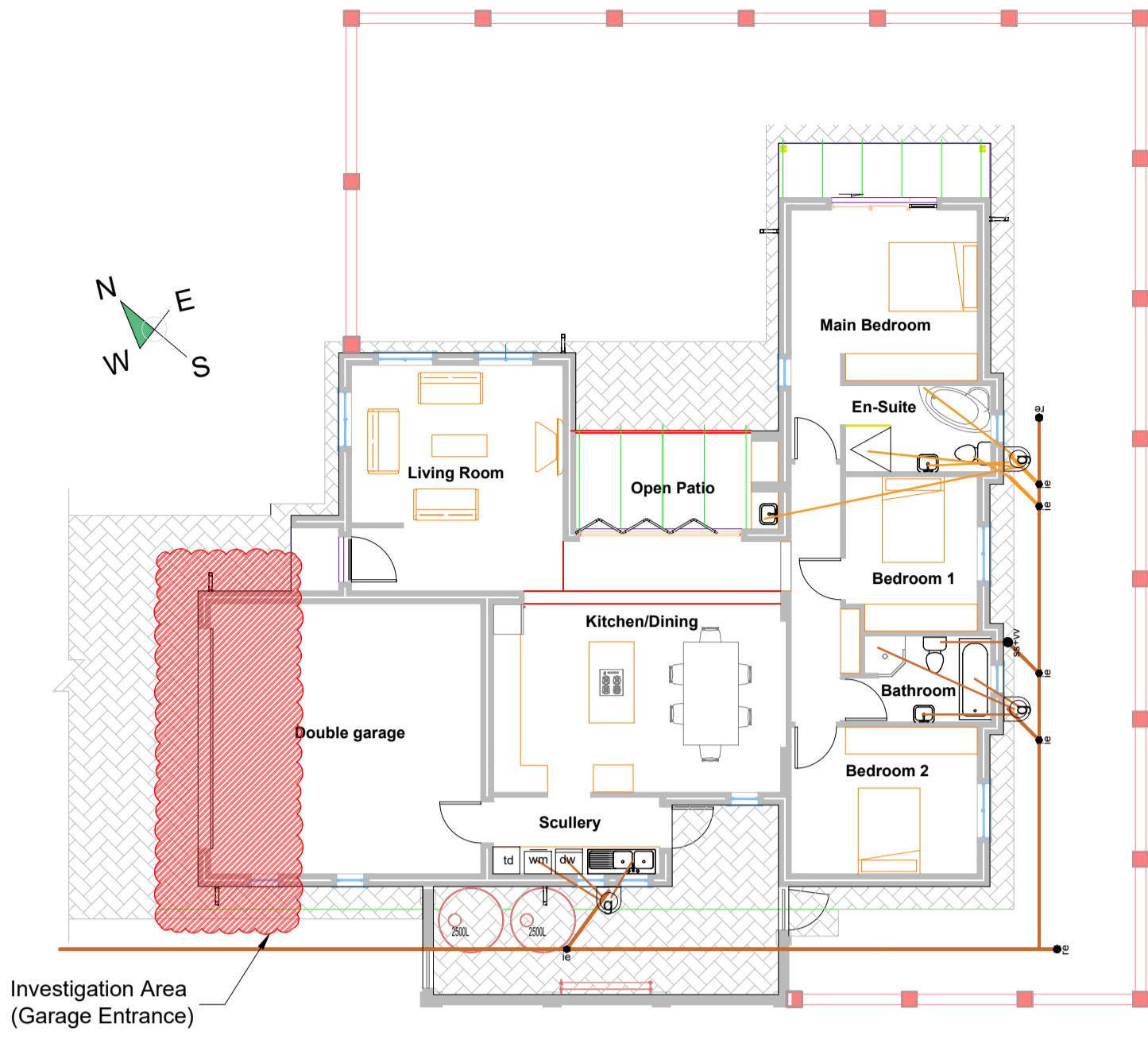
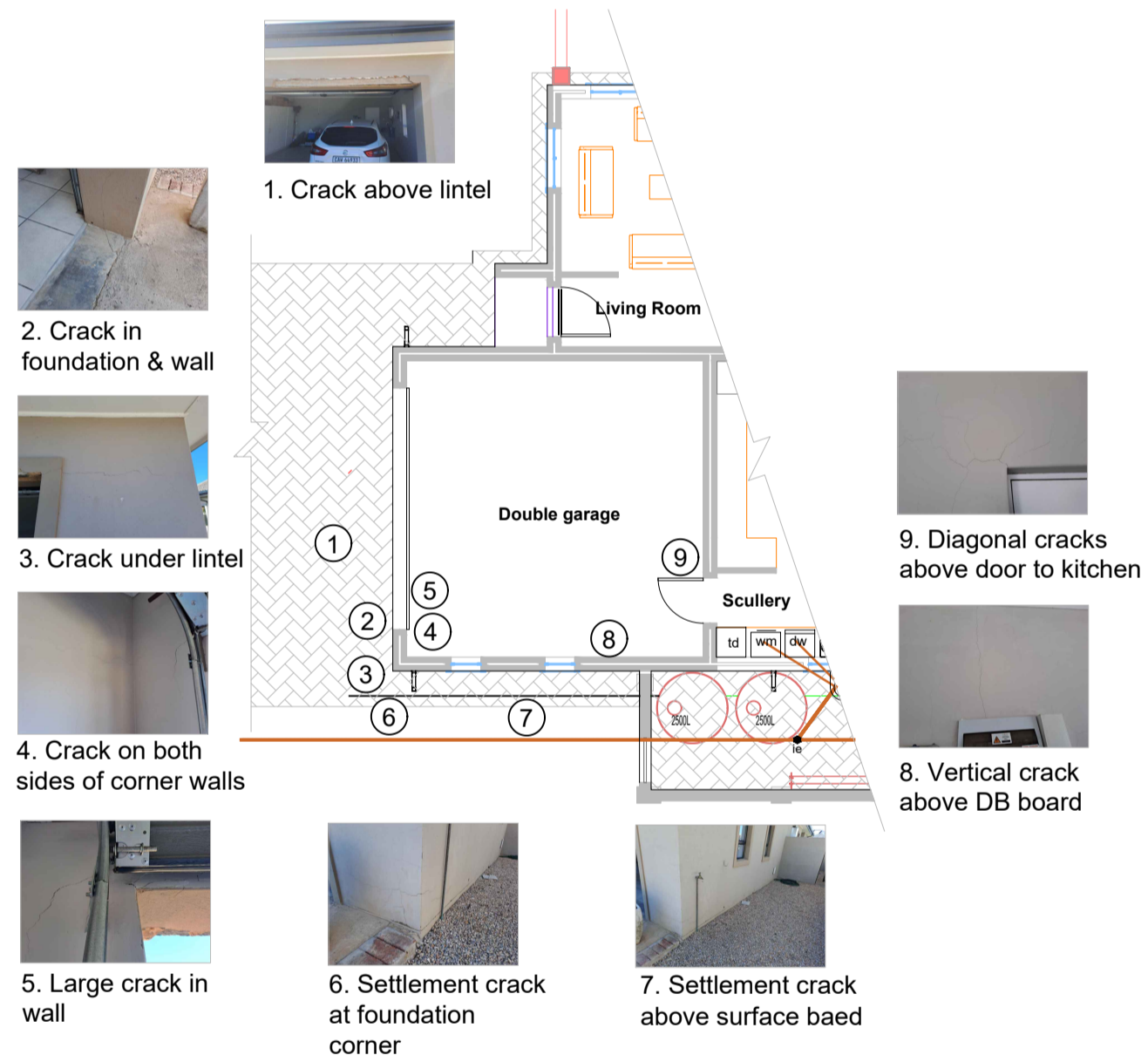


**PROJECT SCOPE and INVESTIGATIVE NOTES**

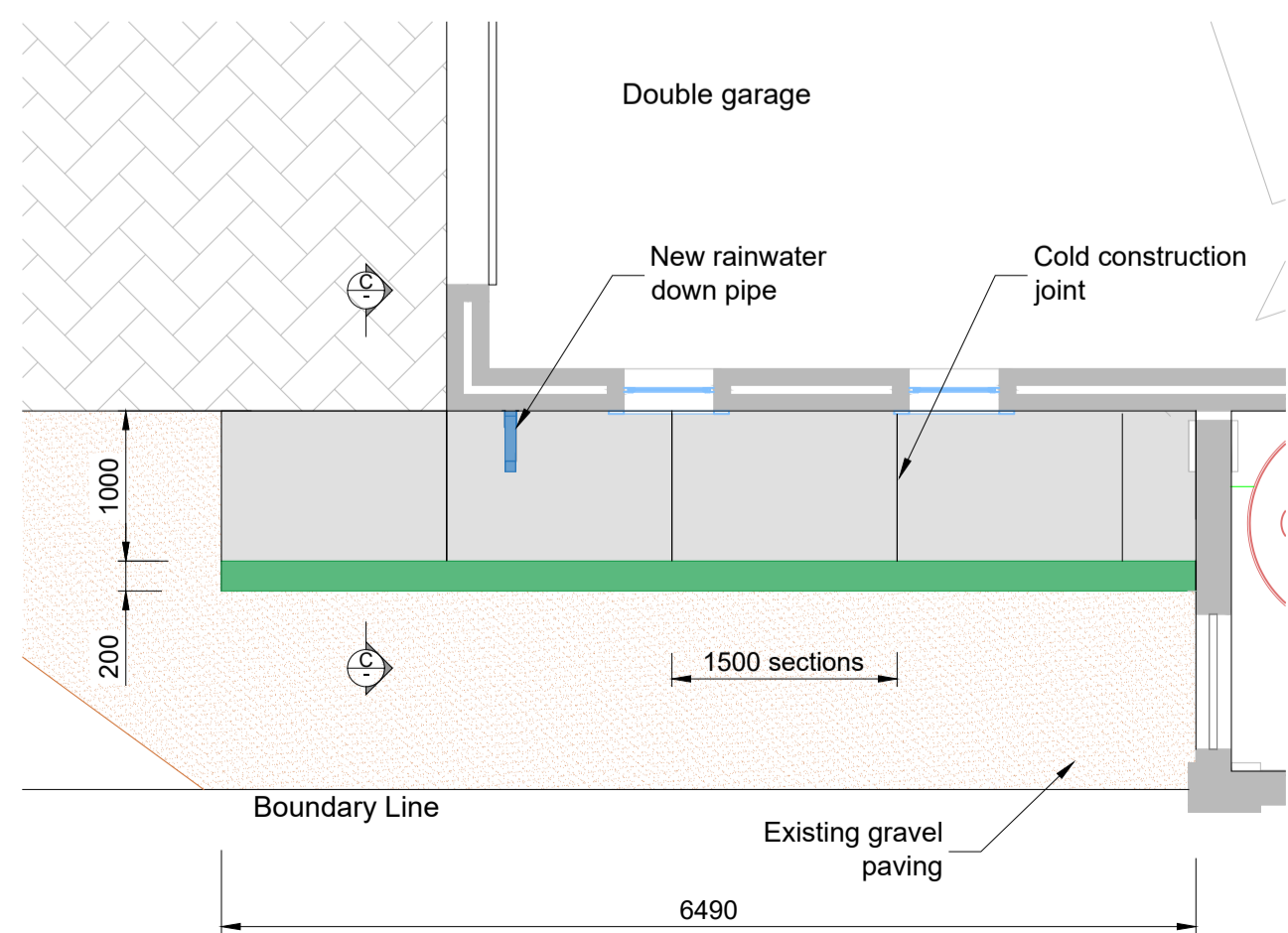


**GROUND FLOOR LAYOUT**  
Building layout and Area of Investigation

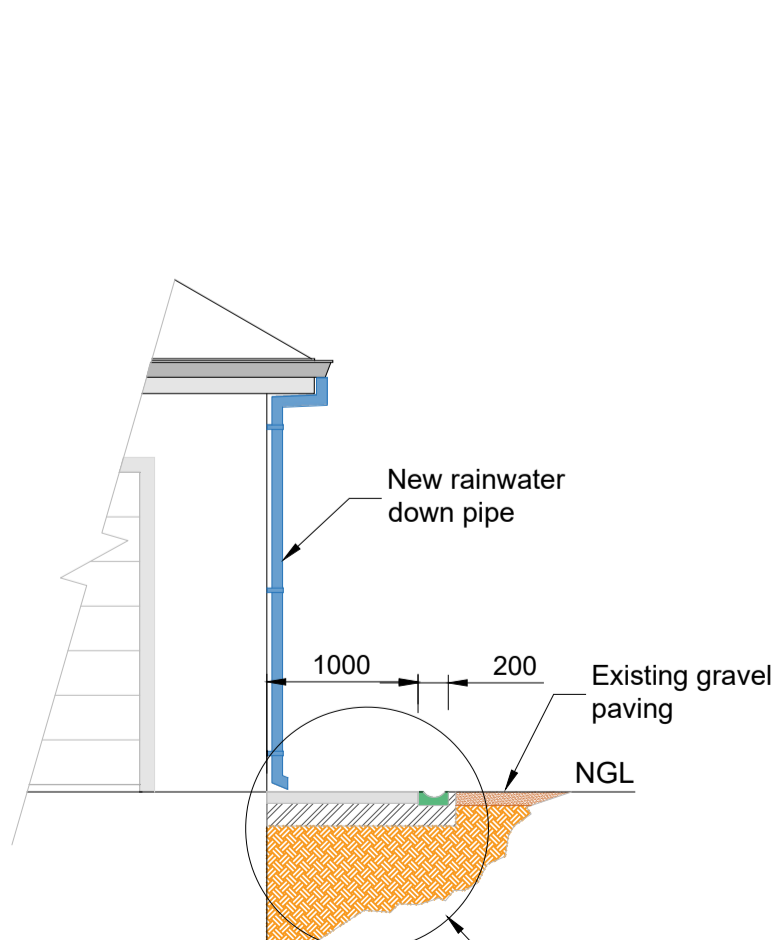


**INVESTIGATION AREA**  
Site photographs and Notes

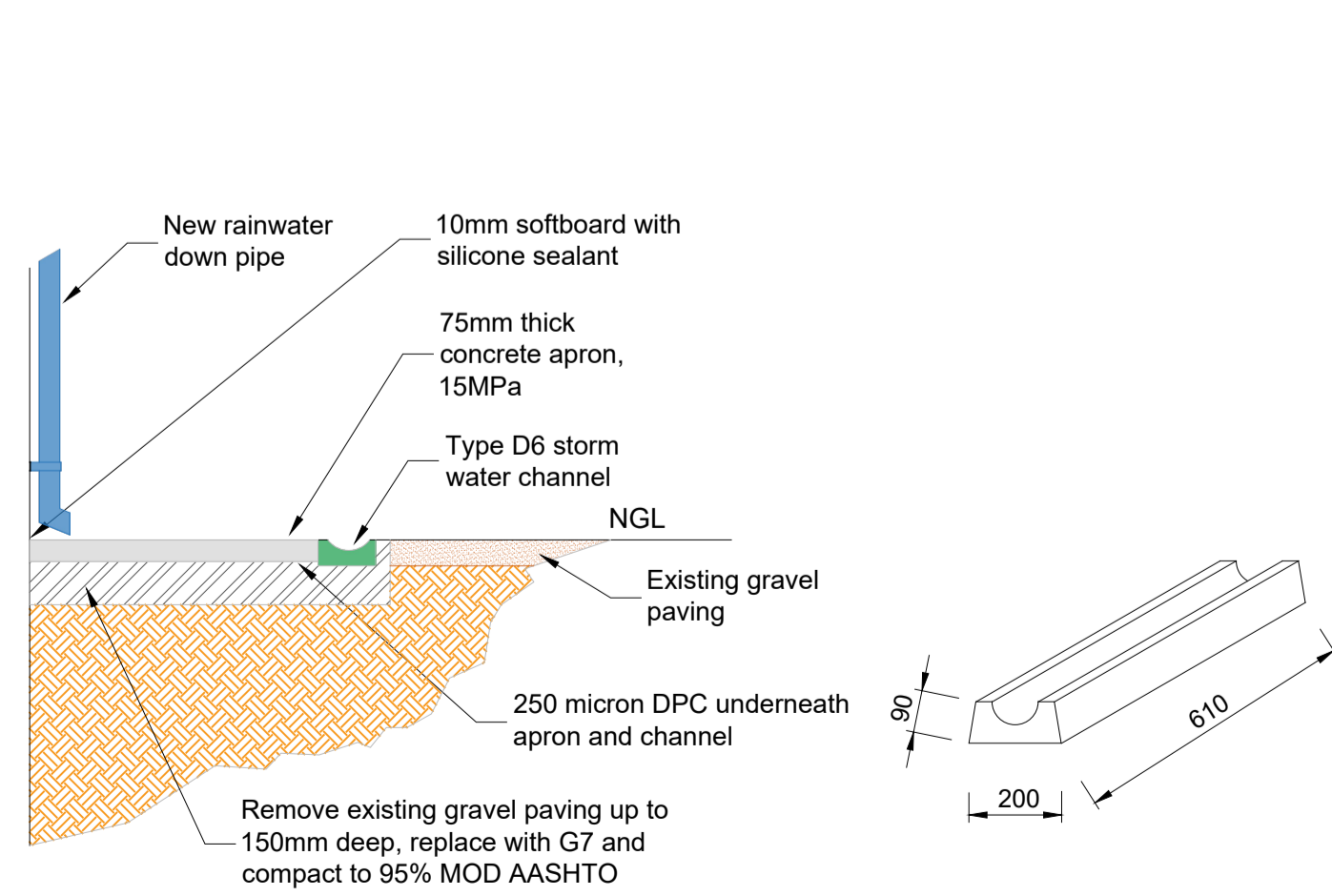
**REMEDIAL WORKS C: STORMWATER DRAINAGE**



**STORMWATER DRAINAGE**  
Paving and Open channel

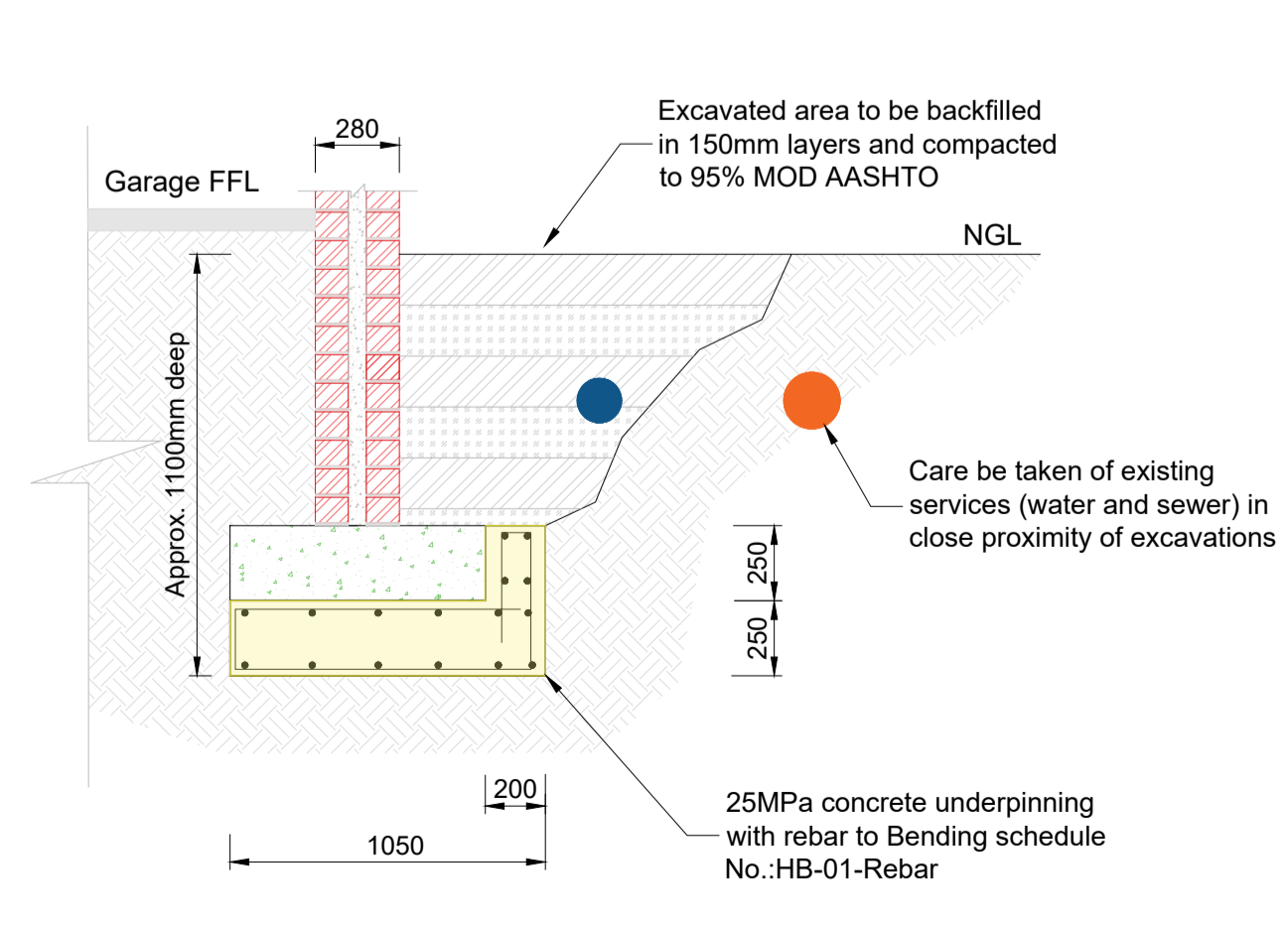


**SECTION C - C**  
Storm water drainage



**DETAIL No.7**  
Storm water drainage

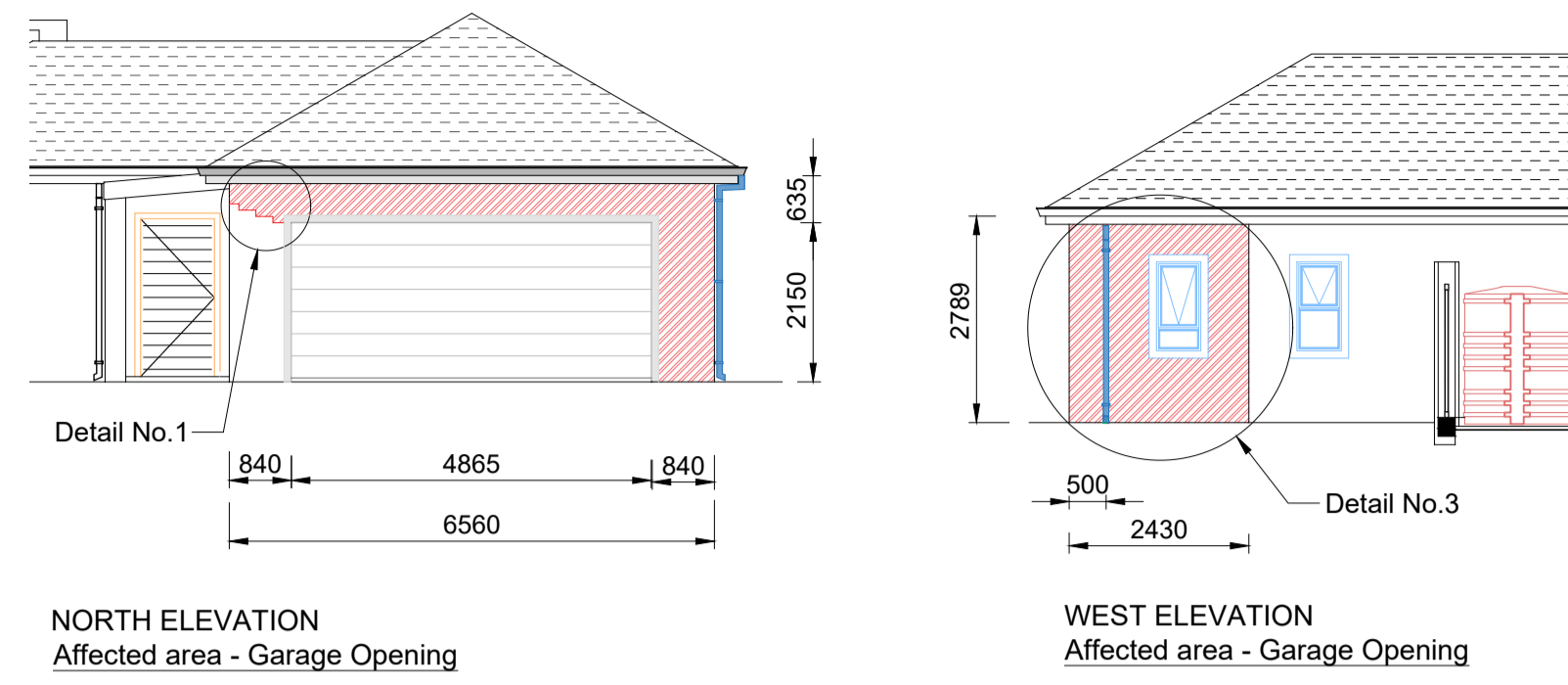
**PRECAST STORMWATER CHANNEL**  
Type - D6



**SECTION B - B**  
Concrete Underpinning

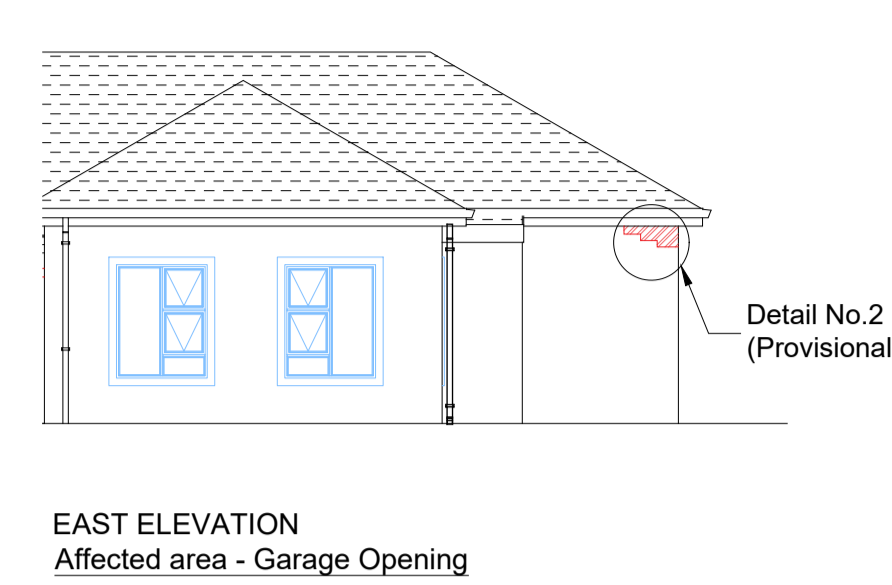
**POSSIBLE ROUTE CAUSES OF DEFECTS and REMEDIAL CONCEPTS**

**REMEDIAL WORKS A: RECONSTRUCT BRICK WALLS**

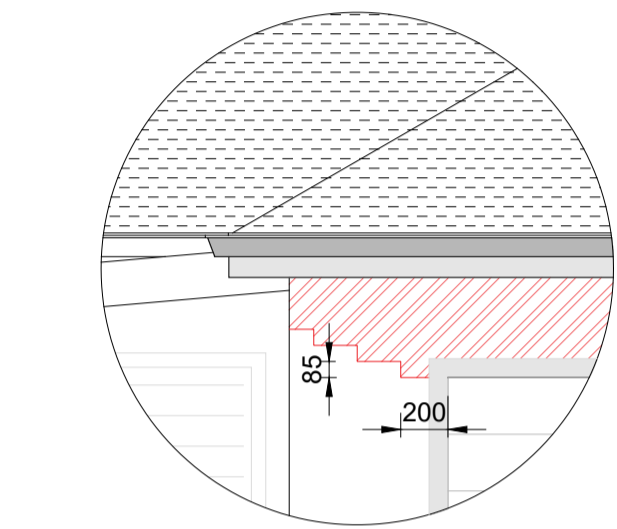


**NORTH ELEVATION**  
Affected area - Garage Opening

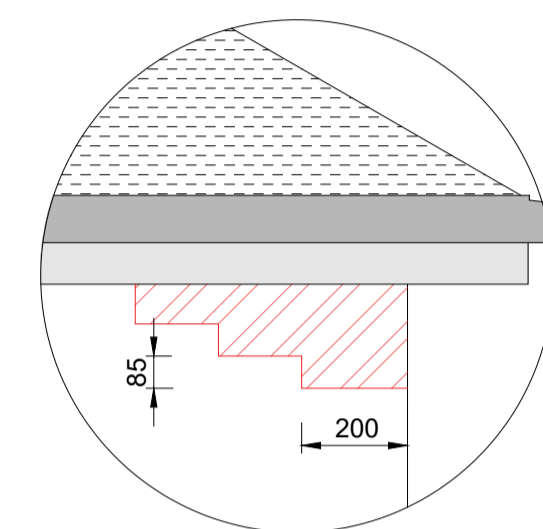
**WEST ELEVATION**  
Affected area - Garage Opening



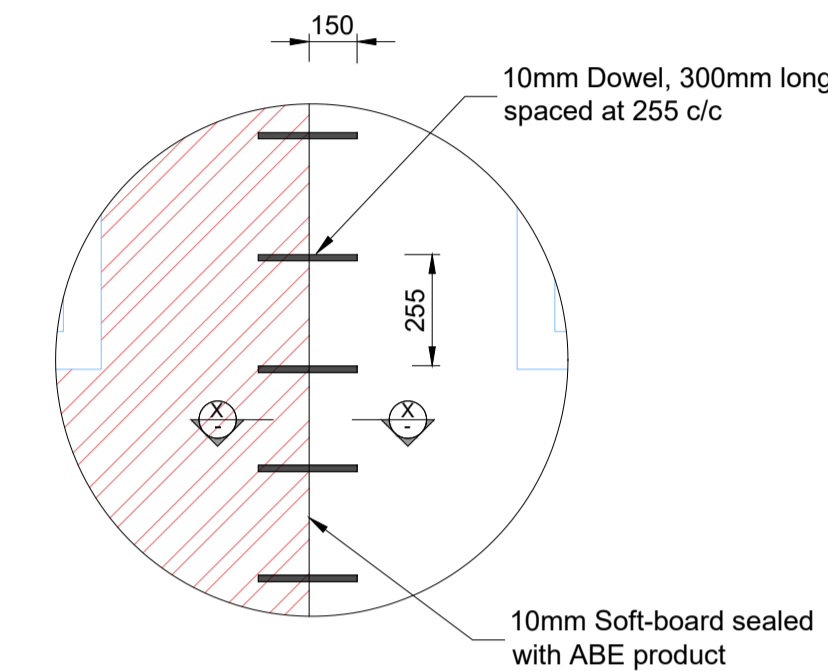
**EAST ELEVATION**  
Affected area - Garage Opening



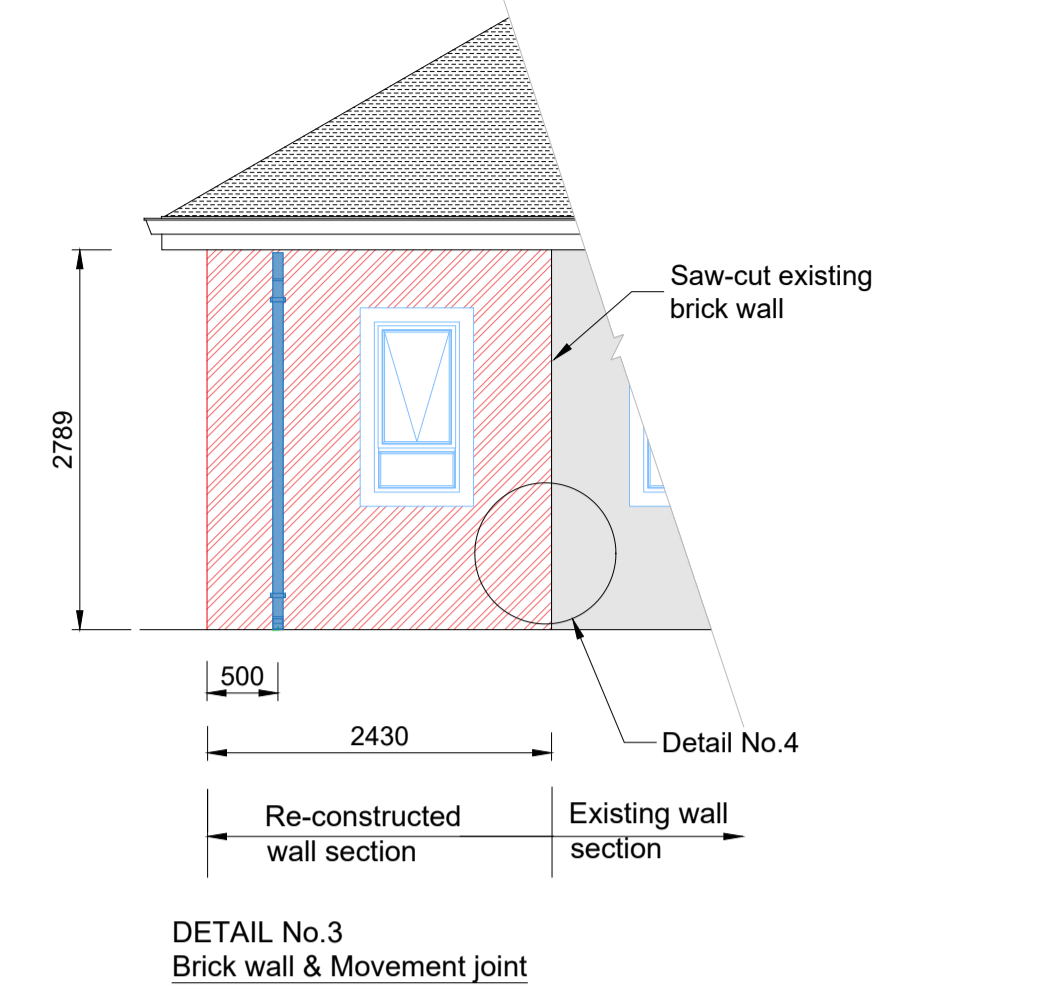
**DETAIL No.1**  
Stepped Brick joint



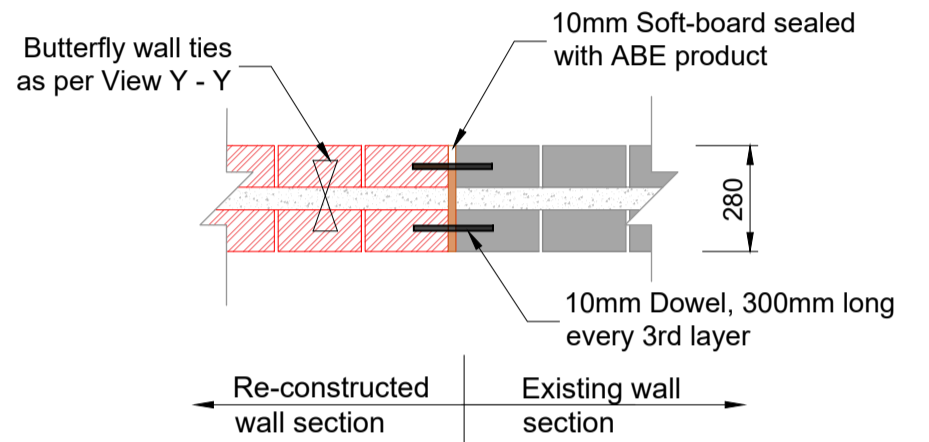
**DETAIL No.2 (Provisional)**  
Stepped Brick joint



**DETAIL No.4**  
Brick wall & Movement joint

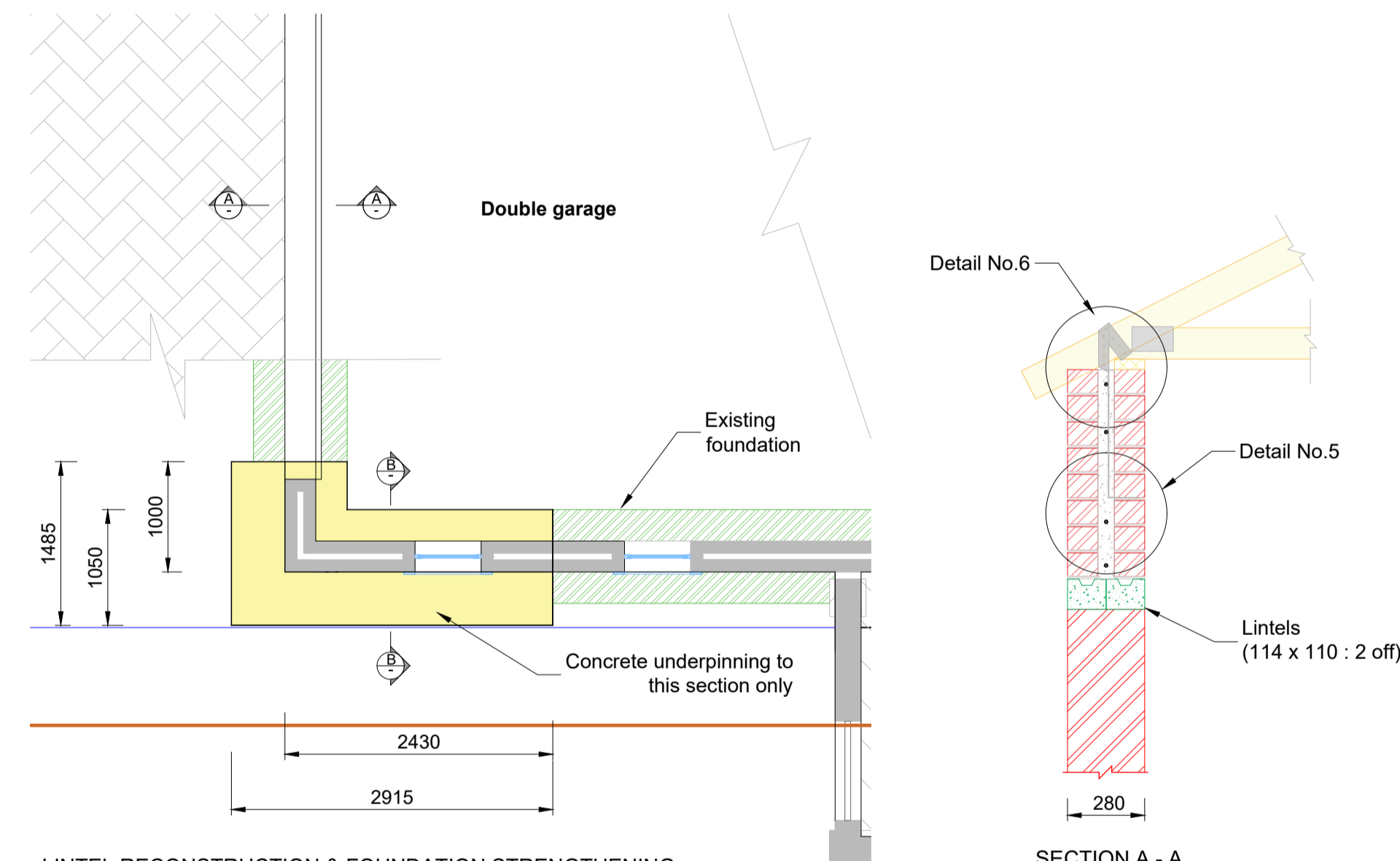


**DETAIL No.3**  
Brick wall & Movement joint

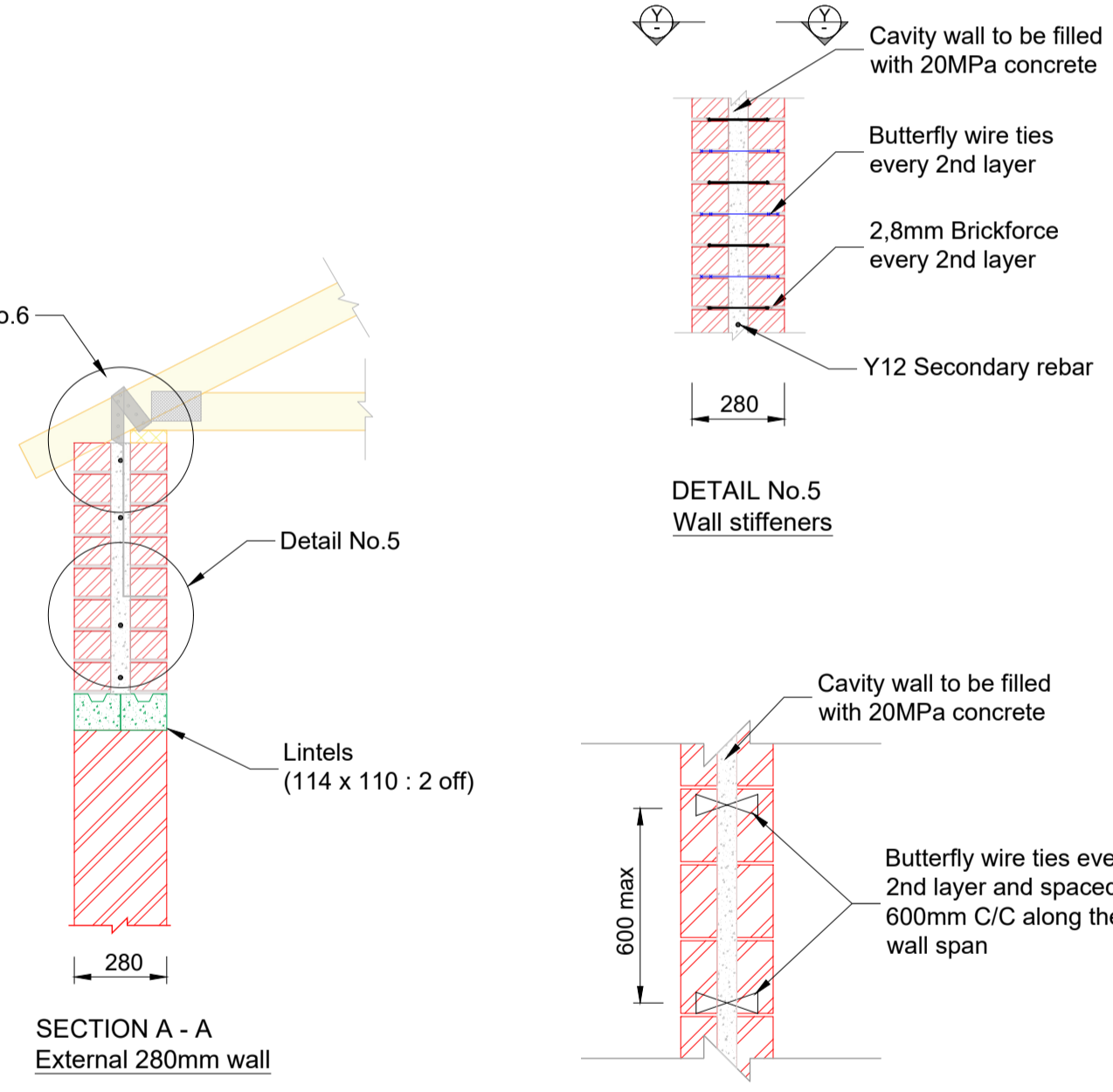


**VIEW X - X**  
Brick wall & Movement joint

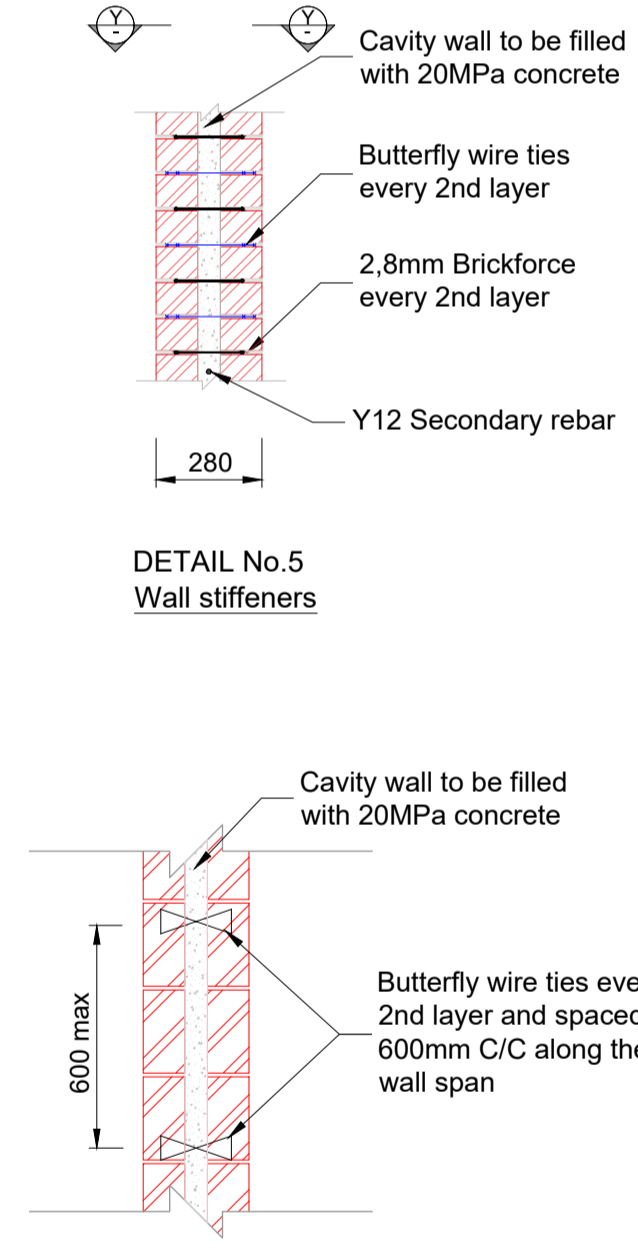
**REMEDIAL WORKS B: CONCRETE WORKS - LINTEL AND UNDERPINNING**



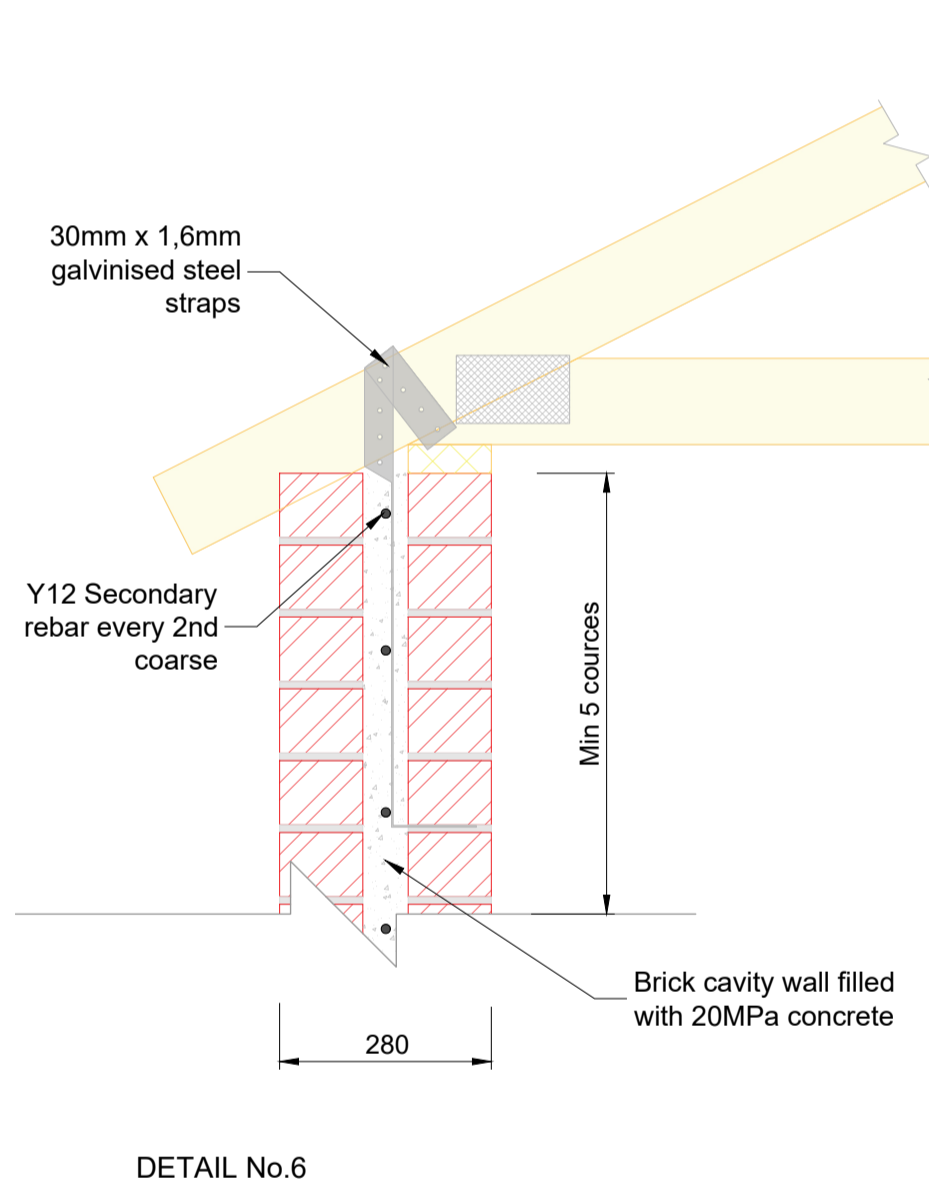
**LINTEL RECONSTRUCTION & FOUNDATION STRENGTHENING**  
Brickworks, Lintel and Concrete Underpinning



**SECTION A - A**  
External 280mm wall



**PLAN VIEW Y - Y**  
Butterfly Wire Ties



**DETAIL No.6**  
Roof Anchor holding down detail

**NOTES:**

- This drawing to be read in conjunction with the following documents:  
Forensic Report - 16 November 2023
- No dimensions may be scaled from this drawing.
- Special care to be taken during all construction operations to not damage or disconnect any services (water, sewer and electrical).

**SITE LAYOUT:**  
ERF 23375, George, Blue Mountain Village Estate

**CLIENT:**  
NATIONAL HOME BUILDERS  
**NHBC**  
REGISTRATION COUNCIL  
Centennial Place  
East Block  
Century City Boulevard  
Milnerton  
Tel: (021) 913 9210  
Cell: (083) 473 3546  
e-mail: dallas@nhbc.org.za

**PROJECT TITLE:**  
Professional Engineering Services for  
Erf 23375, George  
No.10 Kougaberg Street, Blue Mountain Village Estate  
(House Botha)

**DRAWING TITLE:**  
FORENSIC INVESTIGATION

**Revisions**

Date	No.	Description

**Reference Drawings**

Dwg Number	Description

Drawing Issued for:

Forensic investigation     Design  
 Construction     As-built

**TechQ Development**  
Consulting Engineers, Project and Construction Managers  
Office No. 2, Anchor Bay Building  
3 Sit Loney Street  
Gordon's Bay  
7140  
Tel: (0664) 105 1226  
Fax: (0664) 474 1937  
e-mail: techq.development@outlook.com

NEW DEVELOPMENT	MAINTENANCE	YES
DATE Nov., 2023	DRAWN MJB	CHECKED MJB
NHBC SITE CLASSIFICATION: NA	SCALE AS-SHOWN	BEARING CAPACITY NA

Stand Nr. and locality:  
**ERF 23375, George  
Blue Mountain Village Estate**

ENGINEERING DESIGNS - Structural & Civil services

Designed by:	Drawn:	Checked:
M.J. Badenhorst	MJB	MJB

Competent Person:  
M.J. Badenhorst (Pr.Tech.Eng)  
ECSA # 200270009  
NHBC Code # 601551  
Cell: 066 105 1226  
meltbadenhorst@outlook.com

Drawing number:  
HB - 01

Drawing size:  
A1

Rev.  
00

Signature:  
*M.J. Badenhorst*

Signature: