

TYPICAL REPAIR METHODOLOGY:

1. FACE TO BE CAREFULLY CLEANED WITH BRUSHES AND CHISELS TO REMOVE ANY LOOSE MATERIAL
2. CRACKED OR MISSING BRICKS ARE TO BE REPLACED WITH RE-CLAIMED STOCK BRICKS TO MATCH
3. MORTAR REPAIR AND RE-POINTING TO BE CARRIED OUT WITH PRE-BAGGED LIME MORTAR (FEEBLY HYDRAULIC TYPE NHL 2)

PROPOSED INSTALLATION SEQUENCE:

1. MASONRY REPAIRS ABOVE FLOOR JOISTS TO BE COMPLETED (INCLUDING HELI-BAR). REFER TO CONSTRAINTS ON DRAWING Z2-S-563.
2. INSTALL EA TO FAÇADE AND FIX TO EXISTING FLOOR JOISTS (FLOOR BOARDS LOCAL TO EA TO BE REMOVED)
3. INSTALL VERTICAL EA'S AND PATRESS PLATES ON DETAIL LB-003 AND STEEL FLATS ON DETAIL LB-005
4. MASONRY REPAIRS TO BE CARRIED OUT BELOW FLOOR JOISTS (INCLUDING HELI-BAR)
5. INSTALL NEW FLOOR JOISTS AND REPAIR BEARINGS
6. COMPLETE FLOOR DECK

EXISTING PERIMETER MASONRY WALL

MASONRY TO BE REPAIRED AROUND JOIST BEARINGS AS REQUIRED

CONTINUOUS HELI-BARS TO BE INSTALLED TO EACH COURSE ABOVE AND BELOW FLOOR JOIST BEARING - 3 COURSES ABOVE & 2 COURSES BELOW

PRIMARY TIE NEW PATRESS PLATE (TO ARCHITECTS SPECIFICATION), MIN. 250mm DIA. - TO BE POSITIONED ABOVE FLOOR LEVEL. TIE TO BE FIXED TO CONT ANGLE BEHIND FRONT FAÇADE.

ANY EXISTING DECAYED TIMBERS TO BE REMOVED AND NEW TIMBER JOISTS TO BE WRAPPED AND BEAR INTO MASONRY WALL - MIN. 75mm BEARING

**DETAIL LB-002**  
TYPICAL FRONT PERIMETER WALL FLOOR RESTRAINT DETAIL  
(1:10 @ A3)

CONTINUOUS 150x150x12 EA TYING PERIMETER WALL TO EXISTING FLOOR JOISTS  
- FIXED TO EXISTING MASONRY WITH M12 HILTI-HY 270 RESIN ANCHORS AT 440mm c/c, 100mm MIN. EMBEDMENT INTO CENTRE OF BRICK BETWEEN HELI-BAR STRENGTHENING POSITIONS  
- FIXED TO TOP OF JOISTS WITH MIN. 2NO. 50mm LONG x 5mm DIA. SCREWS PER JOIST (NEW & EXISTING)  
- ALL STEEL ANGELS TO BE GALVANIZED  
- ALL FIXINGS TO EXTERNAL WALLS TO BE STAINLESS STEEL

EXISTING FLOOR JOISTS TO BE STRENGTHENED WITH NEW 225x50 C24 TIMBER JOISTS - BOLTED TO EXISTING WITH M12 GR4.6 BOLTS AT 400mm STAGGERED c/c. ANY EXISTING DECAYED TIMBERS TO BE REMOVED AND REPLACED

**DETAIL LB-004**  
TYPICAL REAR PERIMETER WALL FLOOR RESTRAINT DETAIL  
(1:10 @ A3)

NOTE: FIRE PROTECTION PROVIDED BY FIRE BOARD TO ARCHITECTS DETAILS

CONTINUOUS 150x150x12 EA TYING PERIMETER WALL TO EXISTING FLOOR JOISTS AND SPANNING BETWEEN RETURN WALLS  
- FIXED TO EXISTING MASONRY WITH M12 HILTI-HY 270 RESIN ANCHORS AT 440mm c/c, 100mm MIN. EMBEDMENT INTO CENTRE OF BRICK BETWEEN HELI-BAR STRENGTHENING POSITIONS  
- FIXED TO TOP OF JOISTS WITH MIN. 2NO. 50mm LONG x 5mm DIA. SCREWS PER JOIST (NEW & EXISTING)  
- ALL STEEL ANGELS TO BE GALVANIZED  
- ALL FIXINGS TO EXTERNAL WALLS TO BE STAINLESS STEEL

EXISTING FLOOR JOISTS TO BE STRENGTHENED WITH NEW 225x50 C24 TIMBER JOISTS - BOLTED TO EXISTING WITH M12 GR4.6 BOLTS AT 400mm STAGGERED c/c. ANY EXISTING DECAYED TIMBERS TO BE REMOVED AND REPLACED

MASONRY TO BE REPAIRED AROUND JOIST BEARINGS AS REQUIRED

CONTINUOUS HELI-BARS TO BE INSTALLED TO EACH COURSE ABOVE AND BELOW FLOOR JOIST BEARING - 3 COURSES ABOVE & 2 COURSES BELOW

MASONRY TO REAR ELEVATION TO BE CAREFULLY REPAIRED LOCALLY AS REQUIRED

EXISTING PERIMETER MASONRY WALL

NEW PATRESS PLATE (TO ARCHITECTS SPECIFICATION), MIN. 250mm DIA. - TO BE POSITIONED 400mm ABOVE AND/OR BELOW FLOOR LEVEL

CONTINUOUS HELI-BARS TO BE INSTALLED TO EACH COURSE ABOVE AND BELOW FLOOR JOIST BEARING - 3 COURSES ABOVE & 2 COURSES BELOW - TO RETURN MIN. 1m ALONG PARTY WALL

SECONDARY TIE NEW PATRESS PLATE (TO ARCHITECTS SPECIFICATION), MIN. 250mm DIA. - TIE TO BE FIXED TO ROD DRILLED AND GROUTED IN TO PART WALL

**DETAIL LB-003**  
TYPICAL PERIMETER WALL CORNER RESTRAINT DETAIL - PLAN  
(1:10 @ A3)

NOTE: FIRE PROTECTION PROVIDED BY FIRE BOARD TO ARCHITECTS DETAILS

VERTICAL 150x150x10 EA STRIPS EXTENDING 0.8m ABOVE AND/OR BELOW EXISTING FLOOR CONSTRUCTION, FIXED THROUGH EXISTING MASONRY FAÇADE TO PATRESS PLATE WITH MIN. 1NO. M16 BOLTED FIXING  
- ALL STEEL ANGELS TO BE GALVANIZED

100mm WIDE x 6mm THK. CONTINUOUS STEEL STRAP PLATE ALONG PARTY WALL  
- FIXED TO PERIMETER WALL RESTRAINT ANGELS WITH MIN. 2NO. M16 BOLTS  
- FIXED TO EXISYTING MASONRY WITH M12 HILTI-HY 270 RESIN ANCHORS AT 660mm c/c, 100mm MIN. EMBEDMENT INTO CENTRE OF BRICK  
- ALL STEEL ANGELS TO BE GALVANIZED  
- ALL FIXINGS TO EXTERNAL WALLS TO BE STAINLESS STEEL



EXISTING CRACK TO BE FILLED WITH LIME BASED DRY-PACK

EXISTING MASONRY PARTY WALL

GROUT PACKING BETWEEN FACE OF MASONRY AND STEEL STRAP PLATE AS REQUIRED

100mm WIDE x 6mm THK. CONTINUOUS STEEL STRAP PLATE ALONG PARTY WALL  
- FIXED TO PERIMETER WALL RESTRAINT ANGELS WITH MIN. 2NO. M16 BOLTS  
- FIXED TO EXISYTING MASONRY WITH M12 HILTI-HY 270 RESIN ANCHORS AT 660mm c/c, 100mm MIN. EMBEDMENT INTO CENTRE OF BRICK  
- ALL STEEL ANGELS TO BE GALVANIZED  
- ALL FIXINGS TO EXTERNAL WALLS TO BE STAINLESS STEEL

**DETAIL LB-005**  
TYPICAL WALL STRAP DETAIL  
(1:10 @ A3)

REFERENCE KEY:  
GREEN TEXT &  = SUGGESTED AREAS OF REQUIRED TEMPORARY WORKS. DESIGN BY TEMP WORKS ENGINEER  
RED TEXT &  = AREAS OF EXISTING STRUCTURE TO BE BROKEN OUT AND REMOVED

NOTES:  
1. DO NOT SCALE FROM DRAWINGS. WORK TO FIGURED DIMENSIONS ONLY. DIMENSIONS IN mm UNO.  
2. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICE ENGINEER'S, CIVIL AND STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS ISSUED.  
3. WASHERS: FORM G TO TIMBER SURFACES, FORM E TO STEEL SURFACES UNO.  
4. ALL PROPRIETARY PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURES GUIDANCE AND RECOMMENDATIONS.  
5. HOLES IN STEEL TO BE BOLT/SCREW DIAMETER + 1.0mm  
6. ALL STEEL SECTIONS AND CONNECTION COMPONENTS TO BE GRADE S355 UNO.  
7. ALL BOLTS TO BE GRADE 8.8 UNO.  
8. ALL TEMPORARY WORKS DESIGN IS TO BE DESIGNED BY OTHERS.

FOR PLANNING

REV DESCRIPTION DRAWN CHECKED DATE

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2 Maltings Place  
Tower Bridge Road  
London SE1 3JB  
United Kingdom

project name  
ST. GILES ZONE 2

sketch title  
LISTED BUILDING (LB) DETAILS  
SHEET 2

date  
03.05.2018

project no

029

sketch no

029-Z2-S-561

rev

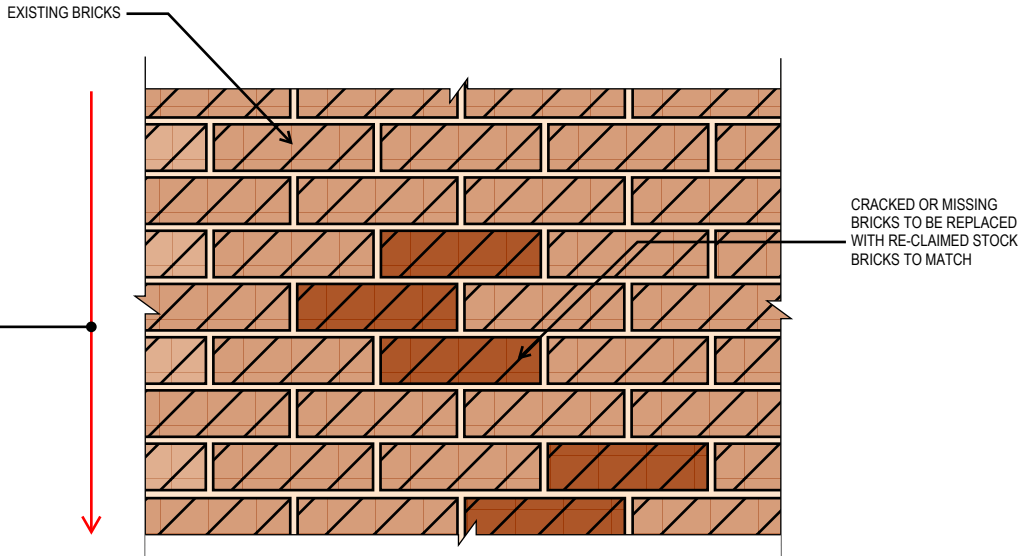
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RK

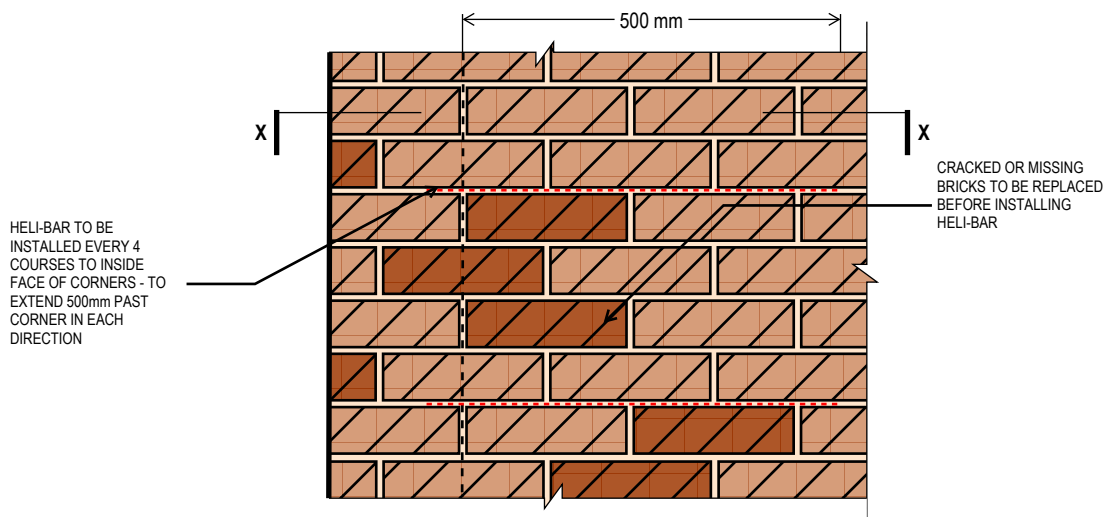
TYPICAL MASONRY REPAIR METHODOLOGY

GENERAL REPAIR APPROACH  
- MASONRY TO BE REPAIRED ONE STOREY AT A TIME  
- AREAS OF REPAIR SHOULD NOT EXCEED 600mm x 600mm TO ENSURE STABILITY OF WALL IS MAINTAINED  
- ONLY A SINGLE AREA TO BE REPAIRED PER WALL AT ANY ONE TIME  
- REPAIR WORKS SHOULD START FROM THE TOP OF THE WALL PANEL AND WORK DOWN TO ALLOW MASONRY TO ARCH OVER WHERE MASONRY IS TO BE REMOVED

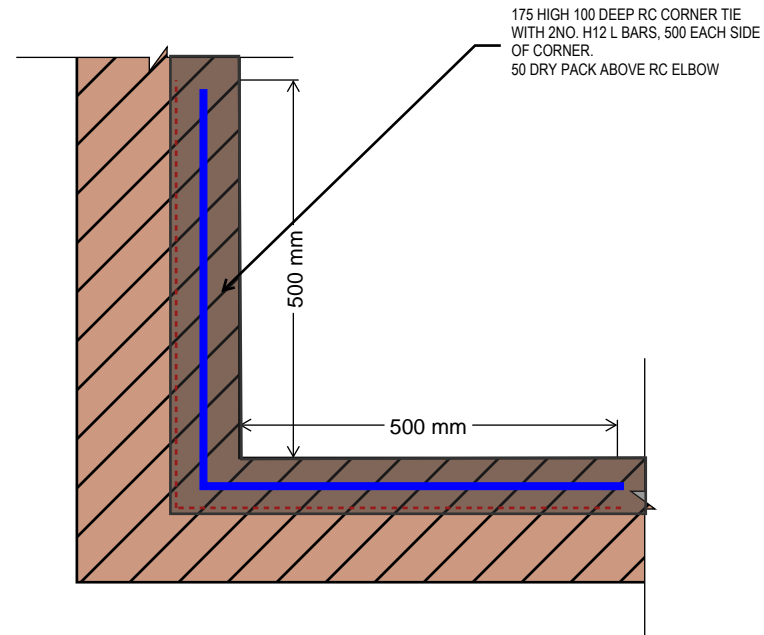


DETAIL LB-007  
MASONRY WALL BRICK REPAIR  
(1:10 @ A3)

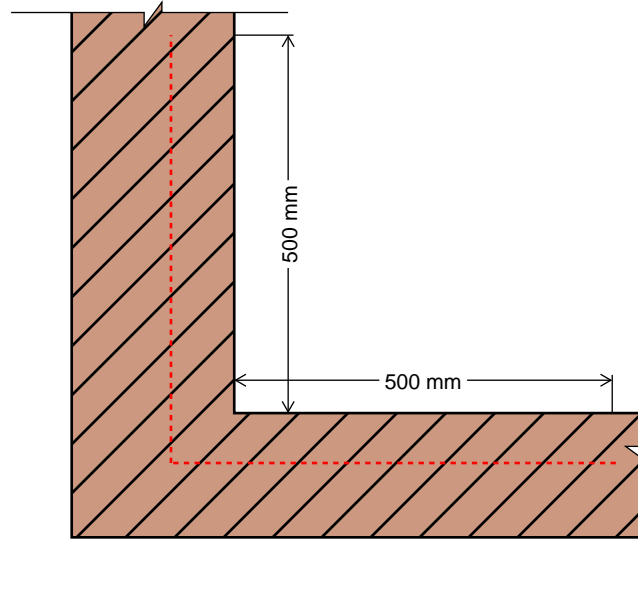
TYPICAL HELI-BAR CORNER DETAIL



DETAIL LB-008  
TYPICAL HELI-BAR CORNER DETAIL - ELEVATION  
(1:10 @ A3)



DETAIL LB-009 - XX  
TYPICAL CONCRETE ELBOW DETAIL  
(1:10 @ A3)



DETAIL LB-008 - XX  
TYPICAL HELI-BAR CORNER DETAIL - PLAN  
(1:10 @ A3)

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REFERENCE KEY:  
GREEN TEXT & [diagonal lines] = SUGGESTED AREAS OF REQUIRED TEMPORARY WORKS. DESIGN BY TEMP WORKS ENGINEER  
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project name

ST. GILES ZONE 2

sketch title

LISTED BUILDING DETAILS (LB) DETAILS  
SHEET 4

date

15.05.2018

project no

029

sketch no

029-Z2-S-563

rev

C2

by

RK