

**CAST IRON GUTTER, LEAD RAINWATER PIPE AND LEAD SHOE ASSEMBLY NORTH ROOFS**

Scale 1:10

**EXPLODED VIEW OF CAST IRON GUTTER, LEAD RAINWATER PIPE AND LEAD SHOE NORTH ROOFS**

Scale 1:10

**CAST IRON GUTTER AND TOP OF LEAD RAINWATER PIPE SOUTH ROOFS**

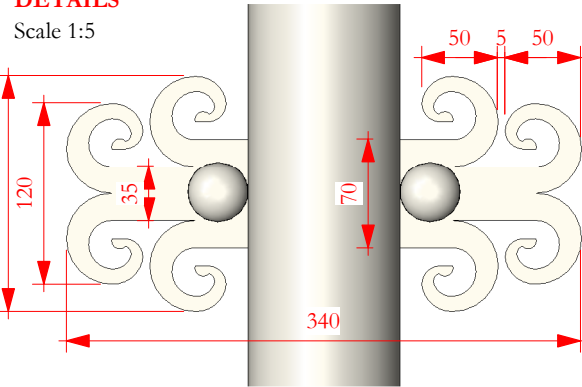
Scale 1:10

**EXPLODED VIEW OF CAST IRON GUTTER AND TOP OF LEAD RAINWATER PIPE SHOWING VIEW AT BACK**

Scale 1:10

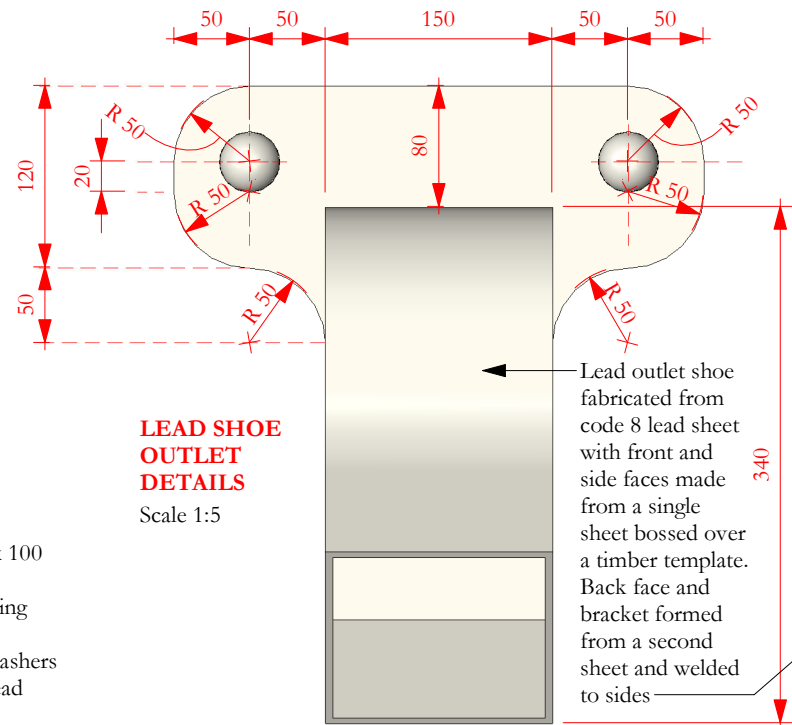
**ORNAMENTAL LEAD BRACKET DETAILS**

Scale 1:5



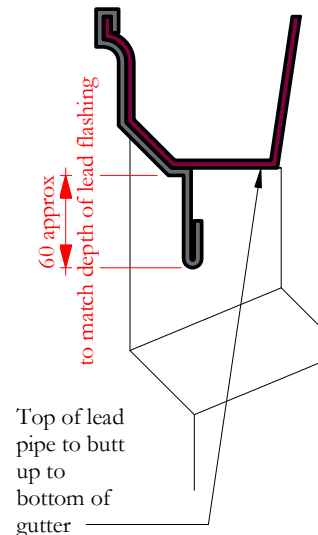
**LEAD SHOE OUTLET DETAILS**

Scale 1:5



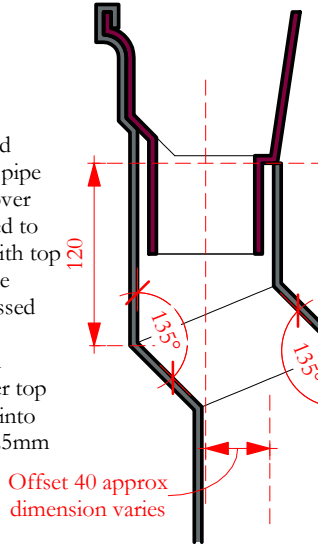
**SECTION SHOWING SIDE OF LEAD PIPE AND LEAD COVER TO GUTTER**

Scale 1:5



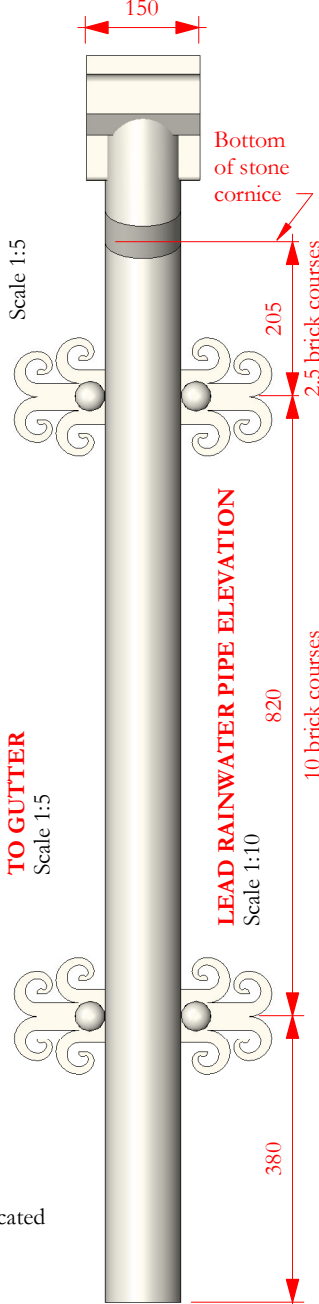
**SECTION THROUGH LEAD PIPE CONNECTOR TO CAST IRON GUTTER**

Scale 1:5

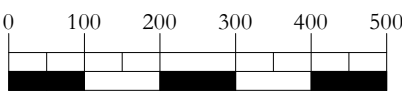


**LEAD RAINWATER PIPE ELEVATION**

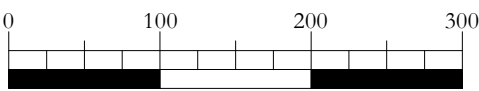
Scale 1:10



**SCALE BAR**  
1 to 10



**SCALE BAR**  
1 to 5



**FRONT ELEVATION**

**CROSS SECTION**

The overall distance from the bottom of the gutter to the top of the lead roof should be checked for each courtyard before offset pipes are manufactured to allow the dimension of the offset pipe or overall length of the lead pipes to be adjusted to take variations into account.

The offset of gutter from the face of the wall may vary. The distance of the spigot outlet from the wall should be measured for each pipe before the offset bend is manufactured and fitted to ensure that it will fit correctly.

The depth of the bottom section of the gutter and pipe cover piece should match the lead flashing over the stone cornice. This should be checked for each pipe.

The cast iron gutter profile varies on the north and south sides of the courtyards. The gutter cover sections should be manufactured to suit each variation

Welded joints to the offset bends and the gutter cover piece should be filed and sanded to create a smooth seamless appearance and polished with wire wool to remove scratches

A sample rainwater pipe should be provided for approval of quality and finish before proceeding with manufacture of the other pipes

**Revision 03:** Fixing tab details for lead shoe amended. Location of ornamental brackets on rainwater pipe amended

|    |            |    |    |                            |
|----|------------|----|----|----------------------------|
| 03 | 31/03/2025 | JC | GR | See note in revision cloud |
| 02 | 31/10/2024 | JC | GR | See note in revision cloud |
| 01 | 04/05/2021 | JC | GR | See note in revision cloud |
| -  | 20/01/2020 | JC | GR | First issue                |

| ISSUE | DATE | APPROVED | DRAWN | DESCRIPTION |
|-------|------|----------|-------|-------------|
|-------|------|----------|-------|-------------|



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PROJECT



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**PROJECT STATUS** RIBA stage 5

**CLIENT** Manchester City Council

**PROJECT** Our Town Hall

**DRAWING TITLE** Lead rainwater pipe and shoe details to roofs NR02, NR05, SR09 and SR14

**SIZE & SCALE** [A3] As indicated

**DRAWING STATUS** S4 Construction

**JOB NUMBER** 236959

**DRAWING NO.** OTH-PUR-TH-RF-DWG-A-7044 **03**

**REV**