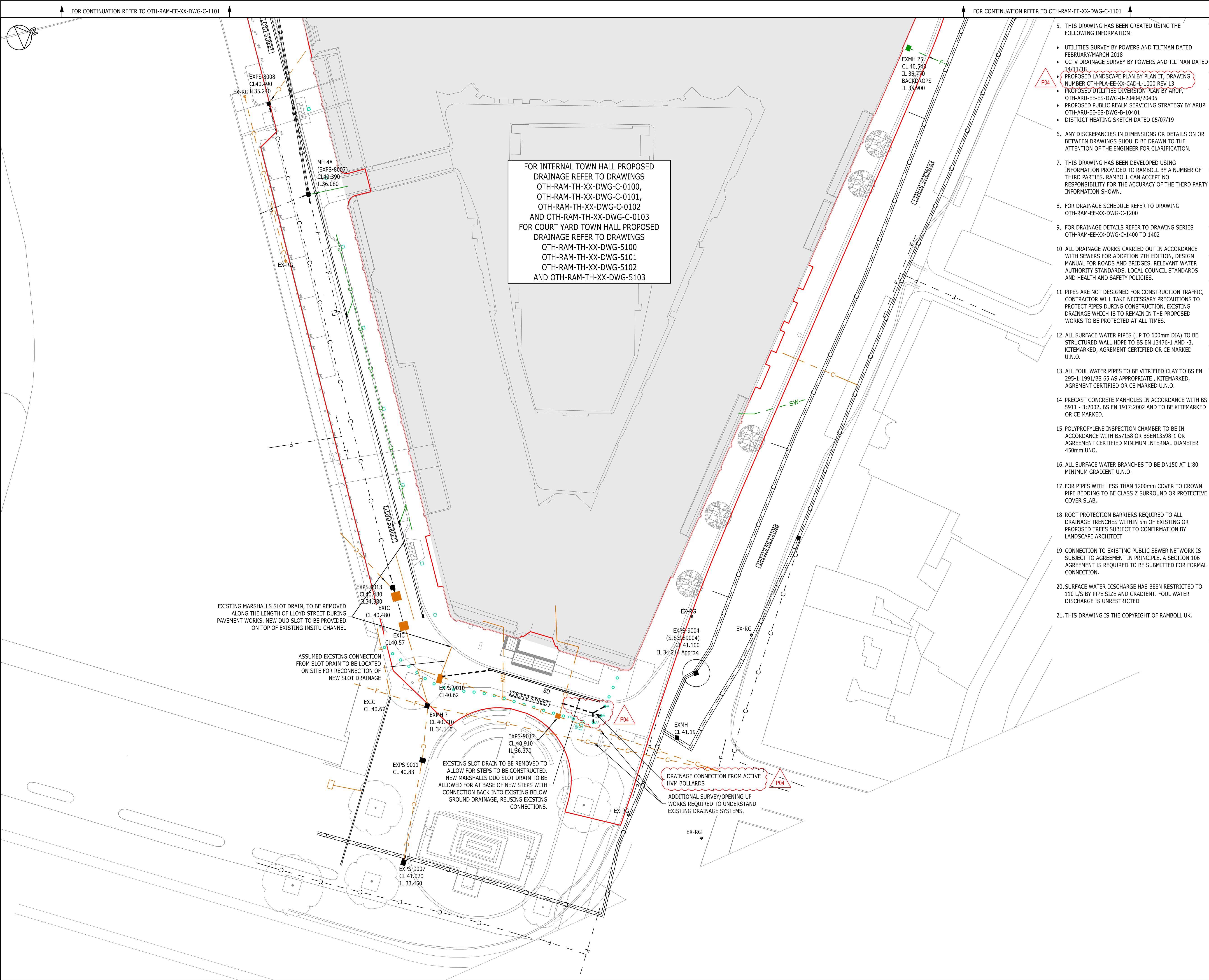
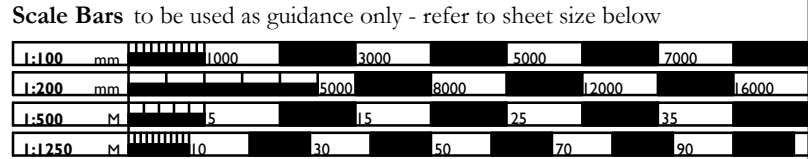




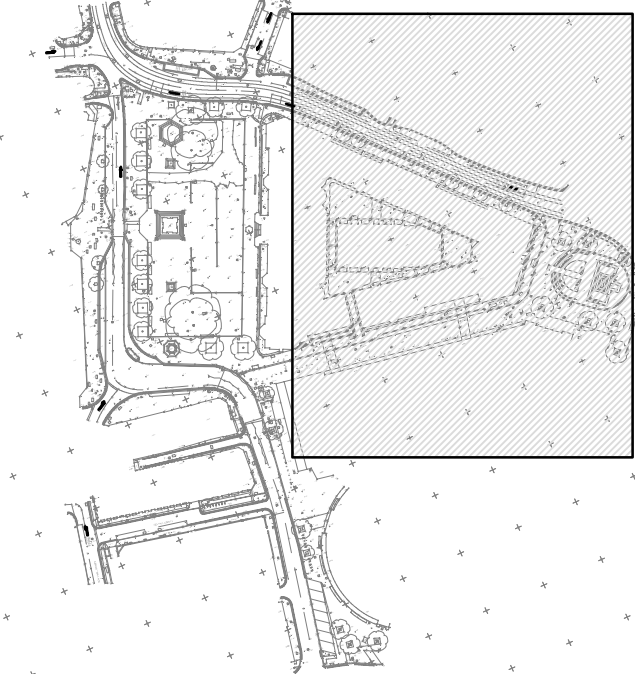
5. THIS DRAWING HAS BEEN CREATED USING THE FOLLOWING INFORMATION:
- UTILITIES SURVEY BY POWERS AND TILTMAN DATED FEBRUARY/MARCH 2018
  - CCTV DRAINAGE SURVEY BY POWERS AND TILTMAN DATED 14/11/18
  - PROPOSED LANDSCAPE PLAN BY PLAN IT, DRAWING NUMBER OTH-PLA-EE-XX-CAD-I-1000 REV 13
  - PROPOSED UTILITIES DIVERSION PLAN BY ARUP, OTH-ARU-EE-ES-DWG-U-20404/20405
  - PROPOSED PUBLIC REALM SERVICING STRATEGY BY ARUP OTH-ARU-EE-ES-DWG-B-10401
  - DISTRICT HEATING SKETCH DATED 05/07/19
6. ANY DISCREPANCIES IN DIMENSIONS OR DETAILS ON OR BETWEEN DRAWINGS SHOULD BE DRAWN TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
7. THIS DRAWING HAS BEEN DEVELOPED USING INFORMATION PROVIDED TO RAMBOLL BY A NUMBER OF THIRD PARTIES. RAMBOLL CAN ACCEPT NO RESPONSIBILITY FOR THE ACCURACY OF THE THIRD PARTY INFORMATION SHOWN.
8. FOR DRAINAGE SCHEDULE REFER TO DRAWING OTH-RAM-EE-XX-DWG-C-1200
9. FOR DRAINAGE DETAILS REFER TO DRAWING SERIES OTH-RAM-EE-XX-DWG-C-1400 TO 1402
10. ALL DRAINAGE WORKS CARRIED OUT IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, DESIGN MANUAL FOR ROADS AND BRIDGES, RELEVANT WATER AUTHORITY STANDARDS, LOCAL COUNCIL STANDARDS AND HEALTH AND SAFETY POLICIES.
11. PIPES ARE NOT DESIGNED FOR CONSTRUCTION TRAFFIC, CONTRACTOR WILL TAKE NECESSARY PRECAUTIONS TO PROTECT PIPES DURING CONSTRUCTION. EXISTING DRAINAGE WHICH IS TO REMAIN IN THE PROPOSED WORKS TO BE PROTECTED AT ALL TIMES.
12. ALL SURFACE WATER PIPES (UP TO 600mm DIA) TO BE STRUCTURED WALL HDPE TO BS EN 13476-1 AND -3, KITEMARKED, AGREEMENT CERTIFIED OR CE MARKED U.N.O.
13. ALL FOUL WATER PIPES TO BE VITRIFIED CLAY TO BS EN 295-1:1991/BS 65 AS APPROPRIATE, KITEMARKED, AGREEMENT CERTIFIED OR CE MARKED U.N.O.
14. PRECAST CONCRETE MANHOLES IN ACCORDANCE WITH BS 5911 - 3:2002, BS EN 1917:2002 AND TO BE KITEMARKED OR CE MARKED.
15. POLYPROPYLENE INSPECTION CHAMBER TO BE IN ACCORDANCE WITH BS7158 OR BSEN13598-1 OR AGREEMENT CERTIFIED MINIMUM INTERNAL DIAMETER 450mm UNO.
16. ALL SURFACE WATER BRANCHES TO BE DN150 AT 1:80 MINIMUM GRADIENT U.N.O.
17. FOR PIPES WITH LESS THAN 1200mm COVER TO CROWN PIPE BEDDING TO BE CLASS Z SURROUND OR PROTECTIVE COVER SLAB.
18. ROOT PROTECTION BARRIERS REQUIRED TO ALL DRAINAGE TRENCHES WITHIN 5m OF EXISTING OR PROPOSED TREES SUBJECT TO CONFIRMATION BY LANDSCAPE ARCHITECT
19. CONNECTION TO EXISTING PUBLIC SEWER NETWORK IS SUBJECT TO AGREEMENT IN PRINCIPLE. A SECTION 106 AGREEMENT IS REQUIRED TO BE SUBMITTED FOR FORMAL CONNECTION.
20. SURFACE WATER DISCHARGE HAS BEEN RESTRICTED TO 110 L/S BY PIPE SIZE AND GRADIENT. FOUL WATER DISCHARGE IS UNRESTRICTED
21. THIS DRAWING IS THE COPYRIGHT OF RAMBOLL UK.



- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE MILLIMETERS U.N.O
  - ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM U.N.O
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT AND ENGINEERS DRAWINGS AND SPECIFICATIONS
- IF ANY INFORMATION WITHIN THESE DRAWINGS CHANGES THE BELOW GROUND DRAINAGE IS ALSO SUBJECT TO CHANGE

KEY

- EXISTING PUBLIC COMBINED DRAIN/ MANHOLE — C —
- EXISTING PUBLIC FOUL DRAIN/ MANHOLE — F —
- EXISTING PUBLIC SURFACE WATER DRAIN/MANHOLE — SW —
- EXISTING PRIVATE FOUL DRAIN/ MANHOLE — F —
- EXISTING ROAD GULLY EX-RG
- PROPOSED DRAW PIT LOCATION REF C AND D, REQUIRING DRAINAGE DP
- PROPOSED FOUL WATER DRAIN/CONCRETE MANHOLE
- PROPOSED SURFACE WATER DRAIN/CONCRETE MANHOLE
- PROPOSED SURFACE WATER POLY PROPYLENE INSPECTION CHAMBER
- PERFORATED PIPES TO BASE OF TREE PITS
- PROPOSED ROAD GULLY RG
- PROPOSED DRAINAGE CHANNEL / SLOT DRAIN WITH SUMP AND ACCESS DC / SD UNIT
- PROPOSED ATTENUATION
- PROPOSED TREE PIT



|     |            |    |    |                                      |
|-----|------------|----|----|--------------------------------------|
| P04 | 05/09/2019 | LS | SG | STAGE 4 ISSUE<br>SEE REVISION CLOUDS |
| P03 | 26/07/2019 | LS | SG | STAGE 4 ISSUE<br>SEE REVISION CLOUDS |

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

**OUR TOWN HALL PROJECT**

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|                |                                                          |
|----------------|----------------------------------------------------------|
| PROJECT STATUS | STAGE 4                                                  |
| CLIENT         | MANCHESTER CITY COUNCIL                                  |
| PROJECT        | OUR TOWN HALL PROJECT                                    |
| DRAWING TITLE  | TOWN HALL EXTERNALS<br>PROPOSED DRAINAGE<br>SHEET 1 OF 3 |
| SIZE & SCALE   | A1: 1:250                                                |
| DRAWING STATUS | D2 - FOR TENDER                                          |
| JOB NUMBER     | 1620003165                                               |
| DRAWING NO.    | OTH-RAM-EE-XX-DWG-C-1100                                 |
| REV            | P04                                                      |