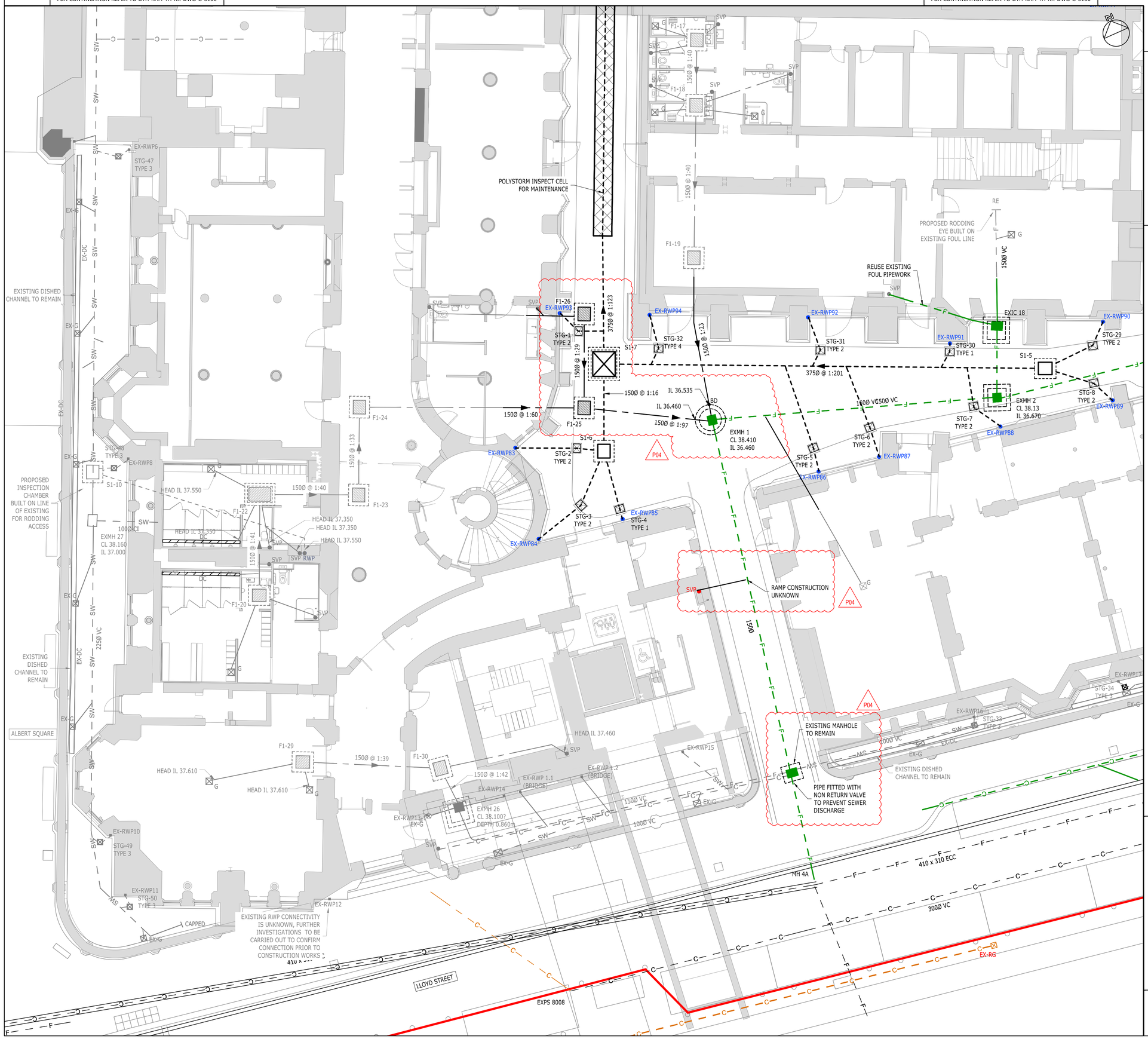
FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-5100

FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-5100



FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-5102

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-ES-CAD-L-1000
   - PROPOSED LOWER GROUND FLOOR PLAN BY PURCELL, EXPORTED 20.06.19
   - PROPOSED SERVICES PLAN BY ARUP
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-XX-XX-DWG-C-5200
9. FOR DRAINAGE DETAILS REFER TO DRAWING SERIES OTH-RAM-XX-XX-DWG-C-5400
10. ALL DRAINAGE WORKS CARRIED OUT IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, BS EN 752 (2008), BUILDING REGULATIONS PART H, 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. IT IS ASSUMED THAT ALL ABOVE GROUND DRAINAGE CONNECTIONS ARE RODDABLE AND VENTED FROM ABOVE GROUND. PUBLIC HEALTH ENGINEER TO CONFIRM ABOVE GROUND VENTING.
13. CONCRETE FOR GENERAL DRAINAGE WORKS DESIGNATED MIX GEN 3 TO BS 8500 - 1:2006, BS EN 206 - 1:2013 AND ENGINEERS SPECIFICATION.
14. ALL SURFACE WATER PIPES TO BE STRUCTURED WALL HDPE TO BS EN 13476-1 AND -3, KITEMARKED, AGREMENT CERTIFIED OR CE MARKED APART FROM RWP'S TO SILT TRAP
15. ALL FOUL WATER PIPES TO BE VITRIFIED CLAY TO BS EN 295-1:1991/BS 65 AS APPROPRIATE , KITEMARKED, AGREMENT CERTIFIED OR CE MARKED U.N.O.
16. ANY PIPEWORK WHICH IS CAST INTO FOUNDATIONS OR THROUGH GROUND BEAMS TO BE CAST IRON.
17. BRICK MANHOLES TO BE CONSTRUCTED USING CLASS B ENGINEERING BRICK IN ACCORDANCE WITH BS EN 771-1:2011, BS 5628-1:2005, AND PD 6697:2010.
18. POLYPROPYLENE INSPECTION CHAMBER TO BE IN ACCORDANCE WITH B57158 OR BSEN13598-1 OR AGREEMENT CERTIFIED MINIMUM INTERNAL DIAMETER 450mm UNO.
19. ALL FOUL BRANCH CONNECTIONS TO BE DN100 AT 1:40 MINIMUM GRADIENT U.N.O. HEAD OF BRANCH IL=37.450 U.N.O.
20. ALL SURFACE WATER BRANCHES FROM RAIN WATER DOWN PIPES , INTO SILT TRAP TO BE DN150 AT 1:60 MINIMUM GRADIENT. ALL OTHER SURFACE WATER BRANCHES TO BE DN150 AT 1:80 UNO.
21. FOR PIPES WITH MORE THAN 1200mm COVER BELOW EXTERNAL GROUND LEVEL OR GREATER THAN 300mm BELOW BUILDING SLAB TO HAVE CLASS S SURROUND U.N.O IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H.
22. ALL DRAINAGE WITH LESS THAN 300mm COVER BELOW BUILDING SLAB TO HAVE CLASS Y CONCRETE SURROUND.
23. CONNECTION TO EXISTING DRAINAGE IS SUBJECT TO AGREEMENT IN PRINCIPLE. A SECTION 106 AGREEMENT IS REQUIRED TO BE SUBMITTED BY THE CONTRACTOR FOR FORMAL CONNECTION.
24. SURFACE WATER DISCHARGE HAS BEEN RESTRICTED TO 15 L/S. FOUL WATER DISCHARGE IS UNRESTRICTED.
25. LOCATION OF FOUL STACKS AND GULLYS THROUGH THE SLAB ARE CURRENTLY ASSUMED. SETTING OUT TO BE PROVIDED BY PURCELL. THEREFORE LOCATION OF MANHOLES IN COURTYARD COULD CHANGE.
26. THIS DRAWING IS THE COPYRIGHT OF RAMBOLL.UK.

FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-5102

Lendlease
Document Review
Lendlease document received on:

1. Accepted
2. Accepted with comments
3. Rejected

Lendlease Checked by Steve Bloxham
Date: 01/08/2019

Accepted documents are considered to conform to the design intent, but does not mean acceptance of dimensions, details, size or weights, nor does it relieve the designer from responsibilities for errors, omissions and/or compliance with obligations and/or responsibilities of the contract.

Scale Bars to be used as guidance only - refer to sheet size below

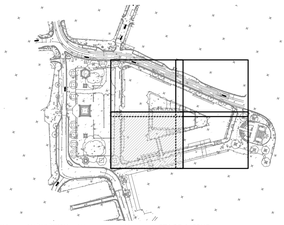
1:100	mm	1000	2000	3000	4000	5000	7000
1:200	mm	2000	4000	6000	8000	10000	14000
1:500	m	5	10	15	20	25	35
1:1250	m	12.5	25	37.5	50	62.5	87.5

1. DO NOT SCALE FROM THIS DRAWING
2. ALL DIMENSIONS ARE MILLIMETERS U.N.O
3. ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM U.N.O
4. 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 PRIVATE SURFACE WATER DRAIN/MANHOLE — SW
- EXISTING PRIVATE COMBINED DRAIN/ MANHOLE — C
- EXISTING PRIVATE FOUL DRAIN/ MANHOLE — F
- DRAINAGE UNDER BUILDING — C
- EXISTING ROAD GULLY — EX-RG
- EXISTING GULLY — EX-G
- EXISTING RWP TO REMAIN — EX-RWP
- PROPOSED NEW SOIL PIPE — SVP
- PROPOSED NEW RWP — RWP
- PROPOSED SILT TRAP GULLY (REFER TO DETAIL FOR 'TYPE') — STG-XX TYPE X
- PROPOSED FOUL WATER MANHOLE
- PROPOSED FOUL WATER DRAIN
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED SURFACE WATER DRAIN
- PROPOSED ATTENUATION



ISSUE	DATE	APPROVED	DRAWN	DESCRIPTION
P04	19/07/2019	LS	SG	STAGE 4 ISSUE
P03	02/05/2019	LS	JW	PLANNING/LBC APPLICATION & STAGE 3+ ISSUE
P02	30/04/2019	LS	SG	PLANNING/LBC APPLICATION & STAGE 3+ ISSUE
P01	18/04/2019	LS	SG	DRAFT PLANNING/LBC APPLICATION

OUR TOWN HALL PROJECT

RAMBOLL
www.ramboll.co.uk

Arkwright House, Parsonage, Manchester, M3 2LF
+44 (0) 161 827 1890
www.Ramboll.com

PROJECT STATUS	STAGE 4
CLIENT	MANCHESTER CITY COUNCIL
PROJECT	OUR TOWN HALL PROJECT
DRAWING TITLE	ENABLING WORKS DRAINAGE SHEET 4 OF 4
SIZE & SCALE	A1: 1:100
DRAWING STATUS	D2 - FOR TENDER
JOB NUMBER	1620003165
DRAWING NO.	OTH-RAM-TH-XX-DWG-C-5103
REV	P04