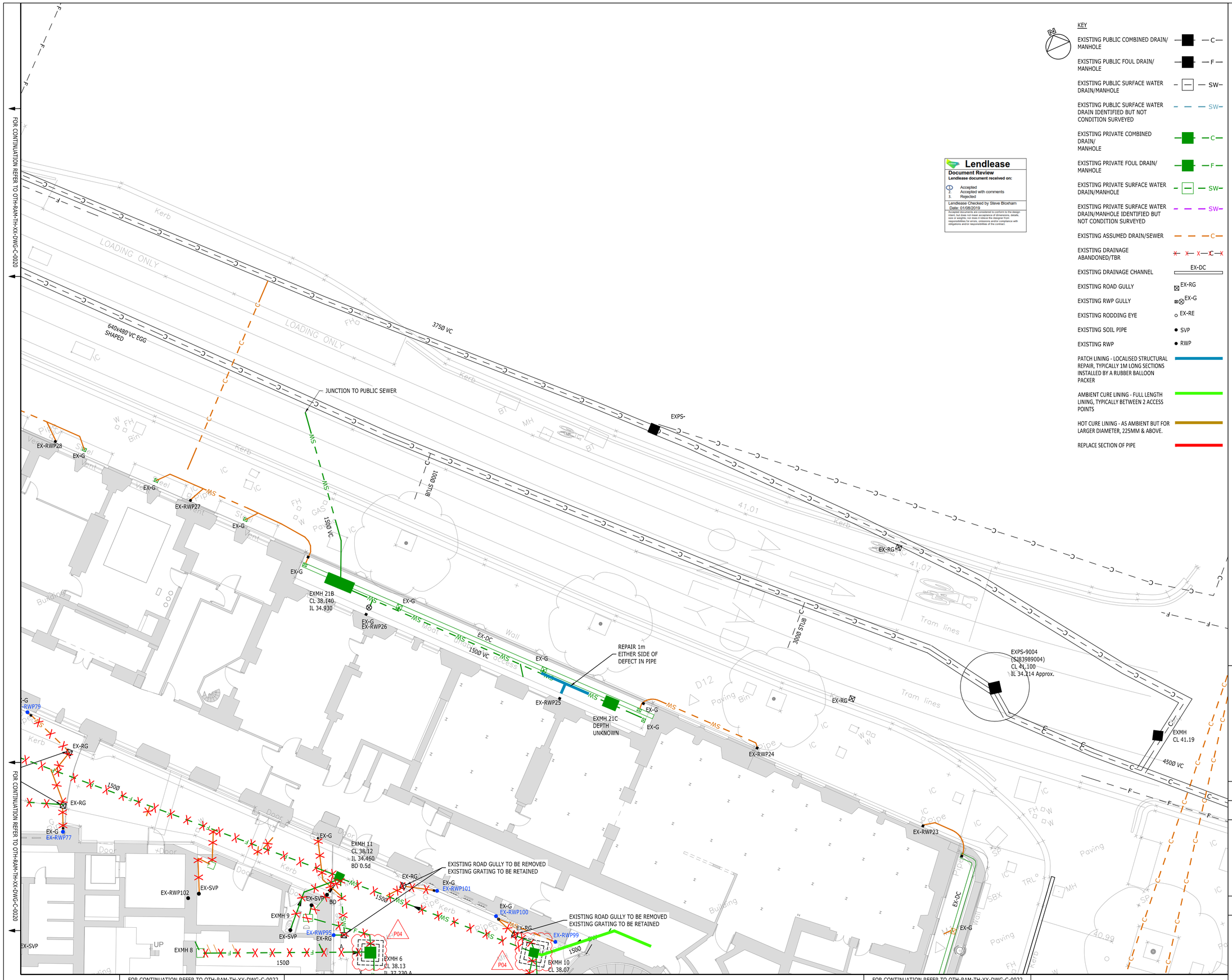


Lendlease

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, or quantities. The Lendlease is relieved of liability for responsibilities for errors, omissions and/or non-compliance with obligations and/or responsibilities of the contract.

KEY

- EXISTING PUBLIC COMBINED DRAIN/ MANHOLE — C
- EXISTING PUBLIC FOUL DRAIN/ MANHOLE — F
- EXISTING PUBLIC SURFACE WATER DRAIN/MANHOLE — SW
- EXISTING PUBLIC SURFACE WATER DRAIN IDENTIFIED BUT NOT CONDITION SURVEYED — SW
- EXISTING PRIVATE COMBINED DRAIN/ MANHOLE — C
- EXISTING PRIVATE FOUL DRAIN/ MANHOLE — F
- EXISTING PRIVATE SURFACE WATER DRAIN/MANHOLE — SW
- EXISTING PRIVATE SURFACE WATER DRAIN/MANHOLE IDENTIFIED BUT NOT CONDITION SURVEYED — SW
- EXISTING ASSUMED DRAIN/SEWER — C
- EXISTING DRAINAGE ABANDONED/TBR — X C X
- EXISTING DRAINAGE CHANNEL — EX-DC
- EXISTING ROAD GULLY — EX-RG
- EXISTING RWP GULLY — EX-G
- EXISTING RODDING EYE — EX-RE
- EXISTING SOIL PIPE — SVP
- EXISTING RWP — RWP
- PATCH LINING - LOCALISED STRUCTURAL REPAIR, TYPICALLY 1M LONG SECTIONS INSTALLED BY A RUBBER BALLOON PACKER
- AMBIENT CURE LINING - FULL LENGTH LINING, TYPICALLY BETWEEN 2 ACCESS POINTS
- HOT CURE LINING - AS AMBIENT BUT FOR LARGER DIAMETER, 225MM & ABOVE.
- REPLACE SECTION OF PIPE

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

1:100	mm	1000	2000	3000	4000	5000
1:200	mm	2000	4000	6000	8000	10000
1:500	M	5	10	15	20	25
1:1250	M	10	30	50	70	90

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
5. THIS DRAWING HAS BEEN CREATED USING THE FOLLOWING INFORMATION:

- UTILITIES SURVEY BY POWERS AND TILTMAN DATED FEBRUARY/MARCH 2018
- EXISTING BASEMENT PLAN BY PURCELL OTH-PUR-TH-B1-DWG-A-0120
- EXISTING GROUND FLOOR PLAN BY PURCELL OTH-PUR-TH-01-DWG-A-0121
- RAINWATER INDIVIDUAL CATCHMENTS BY ARUP, OTH-ARU-TH-XX-DWG-N-2XX26, DATED 06/11/18
- POP-UP DRAWING BY ARUP, WIP, OTH-ARU-TH-XX-DWG-N-2XX28
- CCTV DRAINAGE SURVEY BY POWERS AND TILTMAN DATED 14/11/18

FOR PIPEWORK TO BE DECOMMISSIONED

REMOVING PIPEWORK
DRAINAGE TO BE REMOVED ENTIRELY WITHIN THE COURT YARD WHERE POSSIBLE. IF NOT REMOVED ENTIRELY THEN FOLLOW PROCEDURE BELOW FOR FILLING PIPEWORK

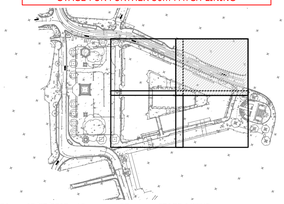
FILLING PIPEWORK
DRAINAGE UNDER BUILDING UNUSED IN THE SCHEME TO BE FILLED. PIPEWORK TO BE JET WASHED PRIOR TO FILLING WITH CEMENT GROUT (CLASS G3 1:10 CEMENT SAND USING THE MINIMUM QUANTITY OF WATER TO ENSURE NECESSARY FLUIDITY AND TO RENDER A CAPABLE OF PENETRATING THE PIPE. CEMENT SHALL BE USED WITHIN 1 HOUR OF MIXING PLUG END WITH CONCRETE PLUG BROUGHT UP TO A SMOOTH DENSE FINISH WITH RETAINED MANHOLES

CONTRACTOR TO DECIDE ON METHOD, DEPENDANT ON DEPTH OF DRAINAGE AND EASE OF REMOVAL.

EXISTING GULLIES AND RODDING EYES AT THE BASE OF RWP'S IN COURT YARD TO BE REMOVED. HOLES IN SLAB TO BE INFILLED WITH STONE AS PER LANDSCAPE ARCHITECTS DETAILS

EXISTING ROAD GULLIES IN COURT YARD TO BE REMOVED BUT GRATING TO BE RETAINED AND REUSED ON NEW GULLY LOCATIONS WHERE POSSIBLE

FULL CONDITION SURVEY OF ASSUMED DRAINAGE WAS NOT POSSIBLE BY NON INTRUSIVE METHODS, ADDITIONAL PHYSICAL OPENING UP DURING CONSTRUCTION WILL BE REQUIRED TO ASSIGN CONDITION. ALLOWANCE SHOULD BE MADE AT THIS STAGE FOR FURTHER 30m PATCH LINING



ISSUE	DATE	APPROVED	DRAWN	DESCRIPTION
P04	19/07/2019	LS	SG	STAGE 4 ISSUE SEE REVISION CLOUDS
P03	01/05/2019	LS	SG	PLANNING/LBC APPLICATION & STAGE 3+ ISSUE

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	TOWN HALL REMEDIATION WORKS TO EXISTING DRAINAGE SHEET 2 OF 4
SIZE & SCALE	A1: 1:100
DRAWING STATUS	D2 - FOR TENDER
JOB NUMBER	1620003165
DRAWING NO.	OTH-RAM-TH-XX-DWG-C-0021
REV	P04

19 July 2019 10:35:32