FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-0020

FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-0020

FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-0022

FOR CONTINUATION REFER TO OTH-RAM-TH-XX-DWG-C-0022

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

EX-RWP7

EX-RWP6 EX-G

EX-G

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

EX-SVP

PASSES THROUGH WALL AND DISCHARGES INTO MOAT PIPE WORK VISIBLE ABOVE GROUND

EX-G

EX-G

EX-RWP8 EX-G

EXMH 27
CL 38.160
IL 37.000

1000 CI

REPAIR FROM MANHOLE TO 1m AFTER DEFECT

EX-G

2250 VC

EXIC
CL 40.370

EX-G

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

EX-RWP10 EX-G

EXMH 35
CL 40.370
IL 38.670

EX-RWP11 EX-G

CAPPED

EX-G

EX-RWP12

410 x 310 ECC

EXPS 8008
CL40.490
IL35.240

EX-RE EX-RWP73

EXMH 17
CL 38.16
IL 36.160 A
IL 34.420 B

EX-RE EX-RWP74

EX-RE EX-RWP75

EX-G EX-RWP76

EXMH 20
GREASE TRAP
CL38.14

EX-SVP

EX-SVP

EX-SVP EX-RE EX-RWP93

EX-RG

EX-RG

EXISTING ROAD GULLY TO BE REMOVED
EXISTING GRATING TO BE RETAINED

EX-RWP94

EXISTING ROAD GULLY TO BE REMOVED
EXISTING GRATING TO BE RETAINED

EX-SVP

EX-G EX-RWP92

EXISTING ROAD GULLY TO BE REMOVED
EXISTING GRATING TO BE RETAINED

EX-SVP

1000 VC

REPAIR MANHO AFTER

EXIC 18
CL38.20
IL 36.850

EX-G EX-RWP91

P04

EX-RG

EX-RG

EXMH 16
CL 38.200
IL 36.570

1500 VC

P04

BD

EXMH 1
CL 38.410
IL 36.460

CHANNEL IN BENCHING AND BACKDROP TO BE REMOVED

1500 VC

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

EXMH 2
CL 38.13
IL 36.670

EX-RWP88 EX-G

EX-RWP89 EX-G

EX-RG

EXISTING ROAD GULLY TO BE REMOVED
EXISTING GRATING TO BE RETAINED

EX-G EX-RWP87

EX-G

EX-G EX-RWP86

EX-RWP85 EX-G

EX-RWP84 EX-G

REPAIR 1m EITHER SIDE OF DEFECT IN PIPE

1500

EX-SVP

1500 VC

EX-SVP

EX-SVP EX-RWP14 P04

EXMH 26
DEPTH 0.860

EX-RWP13-1 EX-G

EX-RWP 1.1 (BRIDGE)

EX-RWP 1.2 (BRIDGE)

EX-RWP13

EX-G

EX-RWP15

EXMH 4
DEPTH 0.600

P04

1500 VC

1000 VC

EX-G

MH 4A
(EXPS-8007)
CL40.390
IL36.080

EX-RWP16 EX-G

1000 VC

EX-DC

410 x 310 ECC

3000 VC

EX-RG

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	20	30	50	70

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

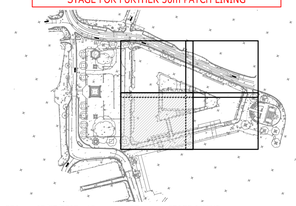
FILLING PIPEWORK
DRAINAGE UNDER BUILDING UNUSED IN THE SCHEME TO BE FILLED. PIPEWORK TO BE JET WASHED PRIOR TO FILLING WITH CEMENT GROUT (CLASS G3 1:10 CEMENT SAND USING THE MINIMUM QUANTITY OF WATER TO ENSURE NECESSARY FLUIDITY AND TO RENDER A CAPABLE OF PENETRATING THE PIPE. CEMENT SHALL BE USED WITHIN 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

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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. Lendlease does not review shop drawing 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.

PROJECT STATUS	STAGE 4
CLIENT	MANCHESTER CITY COUNCIL
PROJECT	OUR TOWN HALL PROJECT
DRAWING TITLE	TOWN HALL REMEDIATION WORKS TO EXISTING 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-0023
REV	P04

19 July 2019 10:37:01