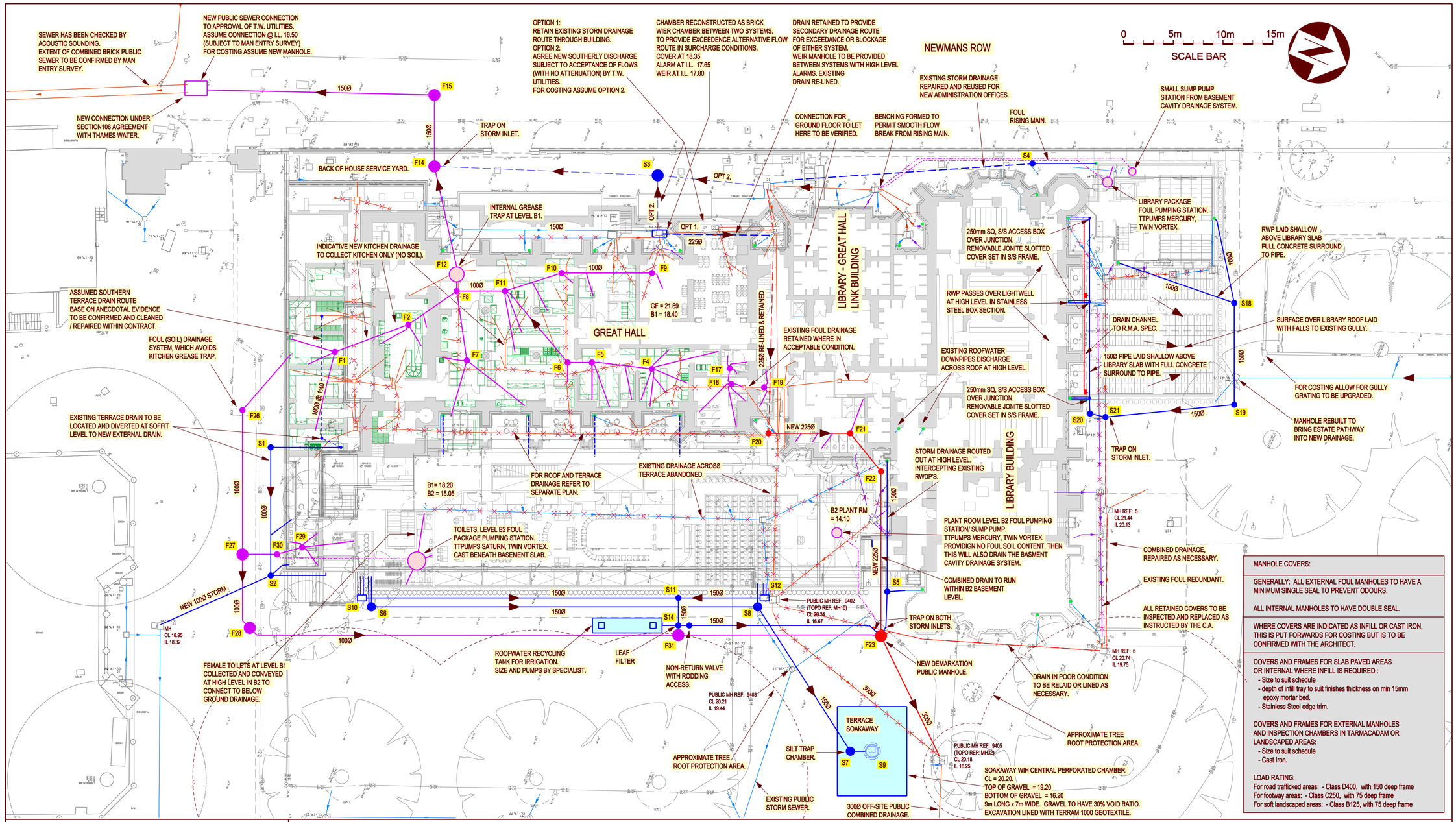


MANHOLE COVERS:

GENERALLY: ALL EXTERNAL FOUL MANHOLES TO HAVE A MINIMUM SINGLE SEAL TO PREVENT ODOURS.

ALL INTERNAL MANHOLES TO HAVE DOUBLE SEAL.

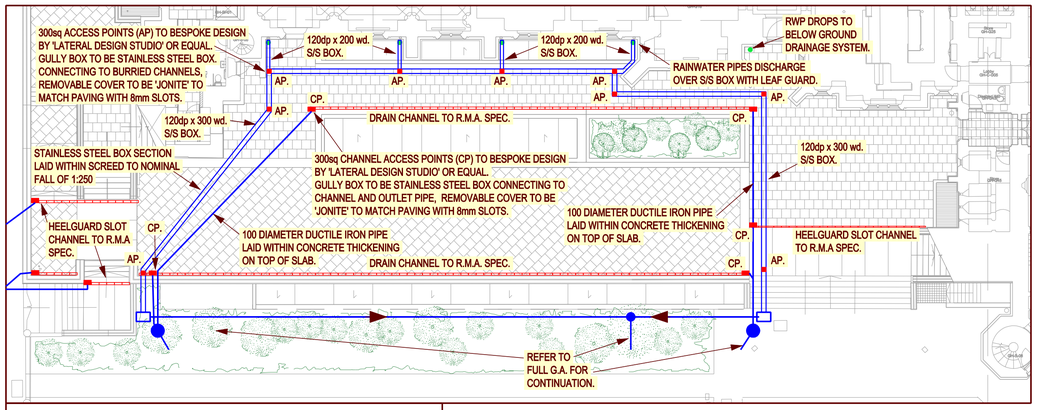
WHERE COVERS ARE INDICATED AS INFILL OR CAST IRON, THIS IS PUT FORWARDS FOR COSTING BUT IS TO BE CONFIRMED WITH THE ARCHITECT.

COVERS AND FRAMES FOR SLAB PAVED AREAS OR INTERNAL WHERE INFILL IS REQUIRED :
- Size to suit schedule
- depth of infill tray to suit finishes thickness on min 15mm epoxy mortar bed.
- Stainless Steel edge trim.

COVERS AND FRAMES FOR EXTERNAL MANHOLES AND INSPECTION CHAMBERS IN TARMACADAM OR LANDSCAPED AREAS:
- Size to suit schedule
- Cast Iron.

LOAD RATING:
For road trafficked areas: - Class D400, with 150 deep frame
For footway areas: - Class C250, with 75 deep frame
For soft landscaped areas: - Class B125, with 75 deep frame

BASEMENT GENERAL ARRANGEMENT



TERRACE GENERAL ARRANGEMENT

MANHOLE SCHEDULE

MANHOLE	COVER * LEVEL c = CIRCA. Be = TO BE CONFIRMED ex = EXIST.	INVERT LVL. (OUTGOING PIPE) c = CIRCA. Be = TO BE CONFIRMED ex = EXIST.	MANHOLE TYPE / SIZE	COVER SIZE/TYPE	NOTES:
F1	18.40	17.90	300 PPIC - TYPE 4.	300 INF.	
F2	18.40	17.67	450 PPIC - TYPE 3.	450 INF.	
F3	NOT USED				
F4	18.40	17.90	450 PPIC - TYPE 3.	450 INF.	
F5	18.40	17.75	300 PPIC - TYPE 4.	300 INF.	
F6	18.40	17.68	300 PPIC - TYPE 4.	300 INF.	
F7	18.40	17.90	300 PPIC - TYPE 4.	300 INF.	
F8	18.40	17.27	450 PPIC - TYPE 3.	450 INF.	
F9	18.41	18.00	300 PPIC - TYPE 4.	300 INF.	
F10	18.40	17.75	300 PPIC - TYPE 4.	300 INF.	
F11	18.40	17.45	450 PPIC - TYPE 3.	450 INF.	
F12	18.40	17.20	GREASE TRAP	600 INF.	PPD LTD BIOMASS GREASE TRAP.
F13	NOT USED				
F14	20.30	16.85	1200 CONC - TYPE 1.	600 C.I.	INSITU BASE FOR TRAP ON STORM INLET.
F15	20.22	16.78	1200 CONC - TYPE 1.	600 C.I.	
F16	NOT USED				
F17	18.41	18.00	300 PPIC - TYPE 4.	300 INF.	
F18	18.41	17.90	300 PPIC - TYPE 4.	300 INF.	
F19	18.40	EXIST	300 PPIC - TYPE 4.	300 INF.	
F20	18.20	c16.85	EXISTING.	600 INF.	REVISE BENCHINING TO NEW CHANNEL. REPLACE COVER.
F21	18.39	16.80	600 PPIC.	600 INF.	
F22	18.40	16.75	600 PPIC.	600 INF.	
F23	20.30	16.50	1200 CONC - TYPE 1.	600 INF.	INSITU BASE FOR TRAP ON STORM INLET.
F24	NOT USED				
F25	NOT USED				
F26	19.60	18.60	300 PPIC - TYPE 4.	300 C.I.	
F27	19.50	17.56	450 PPIC - TYPE 3.	450 C.I.	

MANHOLE SCHEDULE

MANHOLE	COVER * LEVEL c = CIRCA. Be = TO BE CONFIRMED ex = EXIST.	INVERT LVL. (OUTGOING PIPE) c = CIRCA. Be = TO BE CONFIRMED ex = EXIST.	MANHOLE TYPE / SIZE	COVER SIZE/TYPE	NOTES:
F28	19.42	17.46	450 PPIC - TYPE 3.	450 C.I.	
F29	18.20	17.70	450 PPIC - TYPE 3.	450 INF.	
F30	19.70	17.66	450 PPIC - TYPE 3.	450 C.I.	
F31	20.16	16.91	1200 CONC - TYPE 1.	600 CI.	
S1	19.70	18.90	300 PPIC - TYPE 4.	300 C.I.	
S2	19.70	18.75	300 PPIC - TYPE 4.	300 C.I.	
S3	20.30	17.20	1200 CONC - TYPE 1.	600 C.I.	
S4	21.50	19.20	300 PPIC - TYPE 4.	300 C.I.	
S5	20.30	19.50	450 PPIC - TYPE 3.	450 INF.	
S6	20.10	19.40	450 PPIC - TYPE 3.	450 CI.	
S7	20.20	18.97	1200 CONC - TYPE 2.	600 C.I.	PROVIDE 500dp SILT TRAP BELOW INVERT, & DIP PIPE ON OUTLET.
S8	20.30	19.14	450 PPIC - TYPE 3.	450 INF.	
S9	20.20	16.20	1200 CONC - TYPE 2.	600 C.I.	PERFORATED RINGS. 400dp SILT TRAP BELOW INVERT.
S10	20.10	19.40	600 SQ. BRICK	600 C.I.	BRICK INCORPORATING S/S/ BOX INLET FROM RWP(s)
S11	20.30	19.18	450 PPIC - TYPE 3.	450 C.I.	
S12	20.30	19.40	600 SQ. BRICK	600 INF.	BRICK INCORPORATING S/S/ BOX INLET FROM RWP(s)
S13	NOT USED				
S14	20.20	18.80	GRAF LEAF FILTER	TBC	LEAF FILTER T.B.C.
S15	NOT USED				
S16	NOT USED				
S17	NOT USED				
S18	21.40	20.60	450 PPIC - TYPE 3.	450 INF.	
S19	21.20	20.40	450 PPIC - TYPE 3.	450 C.I.	
S20	21.50	20.80	300 PPIC - TYPE 4.	300 C.I.	
S21	21.50	c20.30	450 PPIC - TYPE 3.	450 C.I.	MANHOLE BUILT OVER EXISTING DRAIN RUN.

General Notes

1. This drawing is to be read in conjunction with all relevant architects & engineers drawings & specifications.
2. The contractor is to be responsible for all dimensions & for the correct setting out of the works on site.
3. Do not scale from this drawing.

KEY:

- EXISTING SURFACE WATER DRAIN.
- EXISTING FOUL WATER DRAIN.
- EXISTING COMBINED WATER DRAIN.
- PROPOSED SURFACE WATER DRAIN. 100mm Ø UNLESS NOTED OTHERWISE
- PROPOSED FOUL WATER DRAIN. 100mm Ø UNLESS NOTED OTHERWISE NOTE: WHERE DRAINAGE IS LAID WITHIN EXISTING KITCHEN AREA, SLAB IS TO BE CUT TO ALLOW TRENCHING. SEE NOTE 4.
- PROPOSED COMBINED WATER DRAIN.
- DRAIN ABANDONED BY EXCAVATION OR GROUT FILLING. (MAIN DRAINS SHOWN ONLY, ALLOW FOR SIGNIFICANT NUMBER OF SMALL DRAINS AND BRANCHES.

NOTES:

1 - BASEMENTS REQUIRE SECONDARY WALL AND FLOOR CAVITY DRAINAGE SYSTEM TO COMPLY WITH REGULATIONS.
ALLOW FOR A BASEMENT DRAINAGE SYSTEM IN BOTH THE LIBRARY EXTENSION AND THE EAST TERRACE EXTENSION.
DRAINAGE REQUIRED TO COLLECT PERIMETER CHANNEL AND LAID TO DEDICATED CAVITY PUMPING STATION.

2 - TERRACE DRAIN SYSTEM IS DESIGNED FOR COSTING AS AN INFILTRATION SYSTEM.
SUBJECT TO POROSITY TESTING, THE SYSTEM MAY NEED TO REVERT TO AN ATTENYUATION SYSTEM.

3 - PUMPING STATIONS TO HAVE TWIN PUMPS, HIGH LEVEL AND PUMP FAILURE ALARMS. TELEMETRY FOR REMOTE MONITORING.

4 - PROPOSED KITCHEN DRAINAGE IS TO BE LAID AS SHALLOW AS POSSIBLE. AT HEAD OF RUNS, REST BENDS ARE TO BE LAID WITHIN SLAB i.e. INVERT LEVELS CIRCA 300mm BELOW SLAB LEVEL. PIPE TO BE LAID AT FALLS WITHIN A SLAB THICKENING UNTIL SOFFIT OF PIPE IS 150mm BELOW SLAB LEVEL. THEN PROVIDE SHORT ROCKER PIPE AND SURROUND PIPE IN CLASS 'S' GRANULAR BEDDING.

Rev	Date	Amendments
D	11.07.15	GREASE TRAP LOCATION ALTERED. LIBRARY, TERRACE DRAINAGE AND SOAKAWAY REVISED.
C	18.06.15	MH REFERENCES, I.Ls, ROOF- WATER RECYCLING ADDED, KITCHEN DRAINAGE UPDATED.
B	27.05.15	TERRACE DRAINAGE ALTERED.

Drawing Status
Preliminary

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Project Title
HONOURABLE SOCIETY. OF LINCOLNS INN.

Drawing Title
BELOW GROUND DRAINAGE. GENERAL ARRANGEMENT.

Project Number
14132

Scale @ A1
1:200 @ A1

Date
APR 2015

Drawn By
MS

Checked By
MJ

Drawing Number
14132-C01

Revision
D