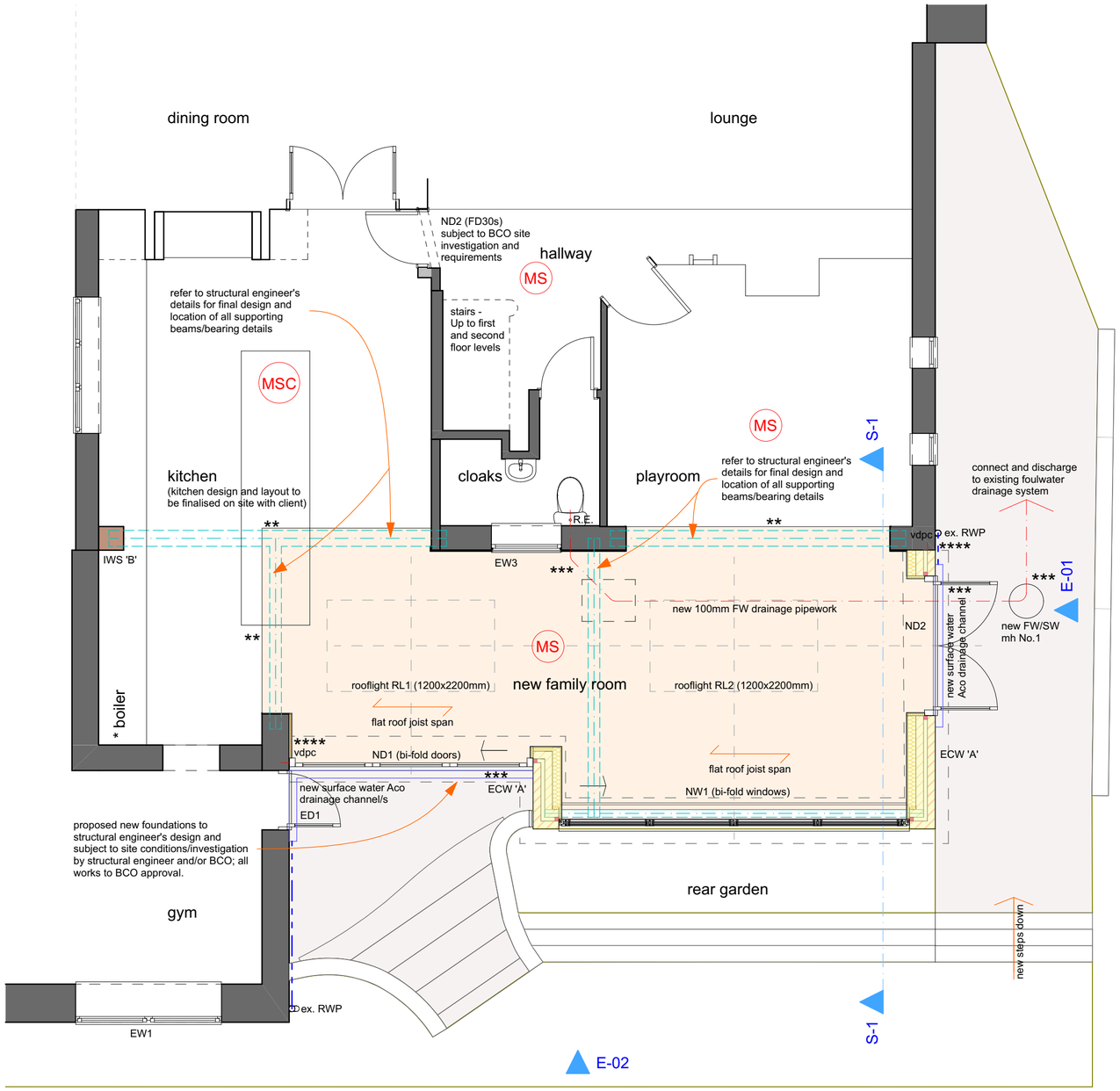
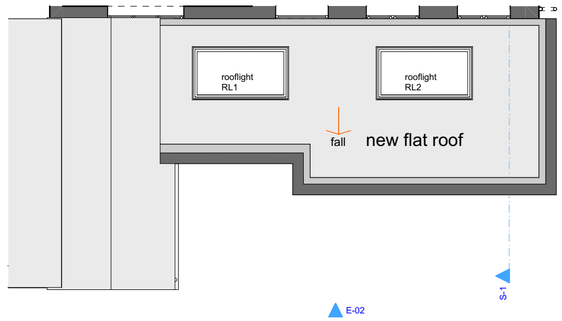


1
-

GFL-Proposed (partial) Site Plan and Ground Floor Plan
1:50



2
-

GCL-Proposed Roof Plan
1:100

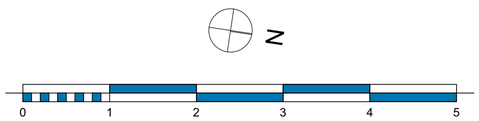
Part L1b - heat loss calculations
Proposed single storey rear extension works

Calculation Method: Proposed building			
Element	**Area (m2)**	**U-value (W/m2K)**	**Rate of heat loss (W/K)**
Flat roof	20.72	0.2	4.144
Rooflights (2*1.2x2.2)	5.28	0.7	3.696
Walls - Masonry	13.4336	0.27	3.627072
Windows	6.659	1.6	10.6544
Doors	10.877	1.8	19.5786
Ground floor	26	0.19	4.94
Total	82.9696		46.640072

Calculation Method: Notional building			
Element	**Area (m2)**	**U-value (W/m2K)**	**Rate of heat loss (W/K)**
Flat roof	26	0.18	4.68
Walls - Masonry	13.2066	0.3	3.96198
Windows/rooflights/doors (25% of Ground Floor + Existing)	17.763	1.8	31.9734
Ground floor	26	0.25	6.5
Total	**82.9696**		**47.11538**

3
-

Heat Loss Calculations
1:2



NOTES -

1. ** Where existing walls are indicated to be removed; the existing wall, floor and roof structures are to be adequately supported. Prior to safe and careful removal, the existing structures are to be opened up and investigated further to ascertain if walls are loadbearing and confirm existing loading supports and detailing. Report findings to structural engineer/BCO. If walls are loadbearing, consult/refer to structural engineer's design and construction details/specification for new structural beam/supports, to existing construction over. (All works subject to site investigation by structural engineer and confirmation of adequate structural support; to be approved by BCO).

2. *** Finalisation of exact new foul/SW drainage route/connection/ design etc to be established and confirmed on site following a site investigation and confirmation of the existing foul and SW drainage pipework/mh locations and routes by the contractor. Report findings to BCO, obtain approval from the BCO for foul + SW drainage works proposed prior to ordering and installation

3. **** Existing wall structure either side of new works to be opened up to check construction method, where new works abuts existing in all areas, if cavity construction maintain continuity of new cavity through to existing cavity, if solid construction internal wall face to be protected against damp penetration to provide a weather resistant structure, any movement joints requirements to structural engineers design and details

4. New structural beam/s to be concealed within existing first floor zone (where possible) to provide a flat ceiling appearance, to structural engineer's design and subject to site conditions

5. The main contractor is responsible for investigating and finding the exact location, direction and depth of all existing services ie gas, electric, water, communication, drainage etc and this is to be established on site upon commencement of works

6. Foundations within 1.0m of any drain to be taken down to invert level

7. Where existing walls are indicated for removal, consult with structural engineers for replacement support detail (if required) prior to careful safe removal

8. The Contractor is responsible for investigating and exposing the exact location and direction of existing internal/external foul drainage run(s)/ svp's, and this is to be established on site upon commencement of works. Upon completion of the investigation the exact run of new drainage will be confirmed with the BCO

9. All leadwork and leadwork flashings to be in accordance with manufacturers and Lead Sheet Association/The International Lead Association recommendations and technical guide-lines. Install appropriate cavity trays/lead flashings/lead soakers, where required

10. Refer to structural engineer's details and calculations for all structural supports (steel/flitch/timber beams and posts/lintels etc).

11. Refer to structural engineer's details where new ground floor structure abuts existing floor structure/wall structure/foundations

12. Prior to commencement of works, Contractor to open up existing structure to establish and confirm which existing internal walls/walls are load-bearing, and direction of existing timber floor joists. Report findings to structural engineer/s.

For General and Construction notes, refer to dwg 0629.007.1/007.2

LEGEND

- External cavity wall (ECW 'A')
- Masonry internal wall (IWS 'B') Fire Resisteance: 30 minutes
- Non-loadbearing internal timber stud partitions (IWS 'C') Fire Resisteance: 30 minutes
- Existing walls
- SVP — Soil and Vent pipe
- RWP — Rainwater downpipe/Gully hopper
- -E- — Existing foulwater drainage
- -N- — New foulwater drainage
- -E- — Existing surfacewater drainage
- -N- — New surfacewater drainage
- AAV/RE — Air Admittance Valve/Rodding Eye Access
- + 9.850 — New levels
- + 9.646 — Existing levels
- MS1 — (MS1) Aico Ei3024 Multi-Sensor Fire Alarm Optical/Heat
- MS2 — (MS2) Aico Ei3028 Multi-Sensor Heat and Carbon Monoxide Alarm
- HA — (HA) Aico Ei3024 Heat Alarm sensor detector
- CM — (CM) Aico Carbon Monoxide sensor detector

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TSBP architecture

revID	chID	Issue Name	Date
01		Minor amendments	27/08/2019
02		Minor amendments	20/09/2019

revision

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client
Mr. Paul Bentley

project
Proposed Extension and Alterations
118 Lovedean Lane, Lovedean. PO8 9SN.

drawing title
Proposed Site Plan + Ground Floor Plan

date
16 August 2019

project number/drawing number
0629-01.003.02

scale
1:50, 1:142.86
1:100, 1:2

paper size
A2

status/purpose
☐ preliminary ■ planning ☐ building regulations
☐ production ☐ tender ☐ construction

118 Lovedean Lane, Lovedean. PO8 9SN.