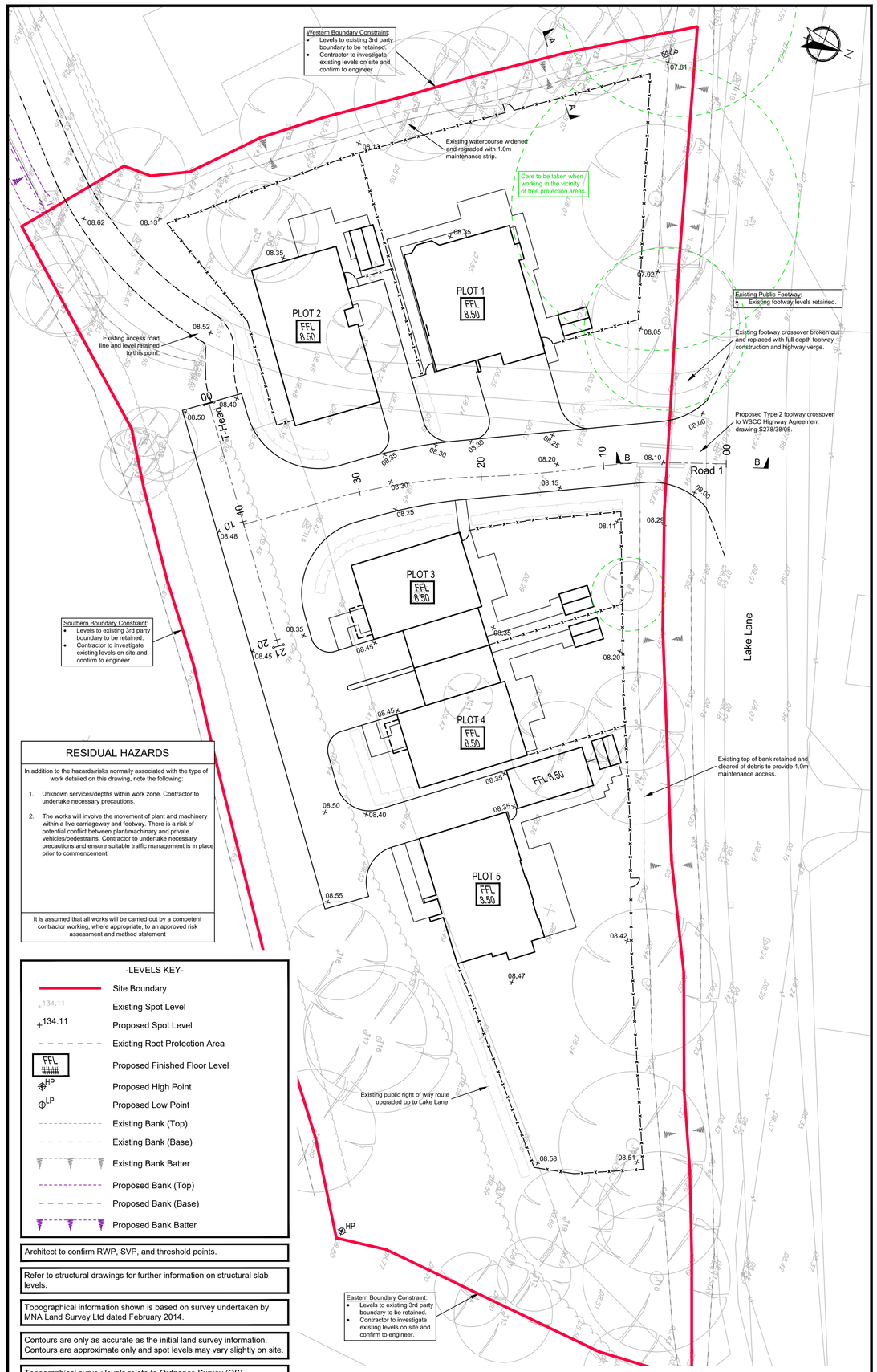



## RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Unknown services/depths within work zone. Contractor to undertake necessary precautions.
2. The works will involve the movement of plant and machinery within a live carriageway and footway. There is a risk of potential conflict between plant/machinary and private vehicles/pedestrains. Contractor to undertake necessary precautions and ensure suitable traffic management is in place prior to commencement.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

### -LEVELS KEY-

- Site Boundary
- 134.11 — Existing Spot Level
- +134.11 — Proposed Spot Level
- Existing Root Protection Area
- FFL 8.50 — Proposed Finished Floor Level
- HP — Proposed High Point
- LP — Proposed Low Point
- Existing Bank (Top)
- Existing Bank (Base)
- Existing Bank Batter
- Proposed Bank (Top)
- Proposed Bank (Base)
- Proposed Bank Batter

Architect to confirm RWP, SVP, and threshold points.

Refer to structural drawings for further information on structural slab levels.

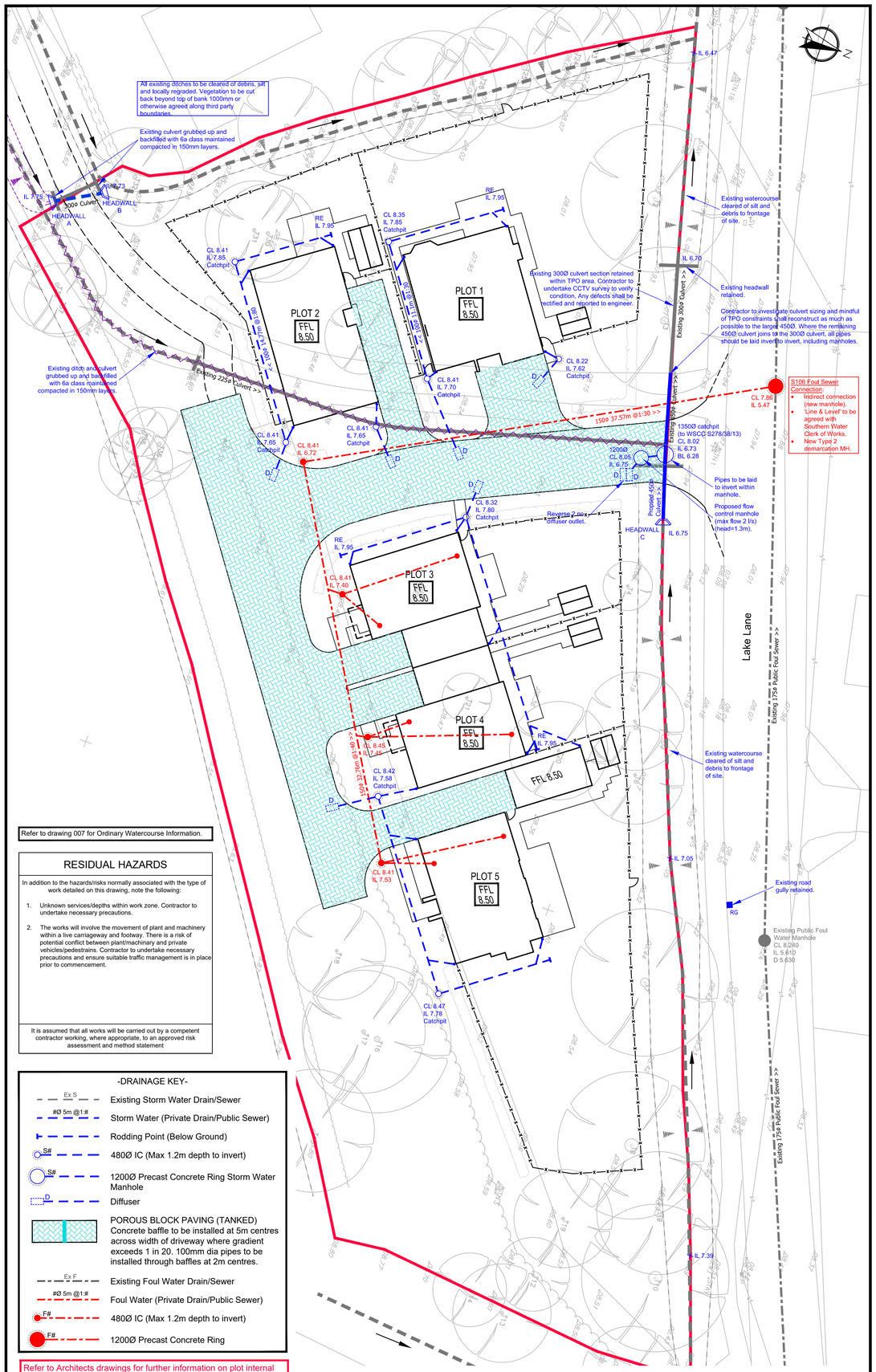
Topographical information shown is based on survey undertaken by MNA Land Survey Ltd dated February 2014.

Contours are only as accurate as the initial land survey information. Contours are approximate only and spot levels may vary slightly on site.

Topographical survey levels relate to Ordnance Survey (OS) benchmark.

1:200@ A1
1:400@ A3
0 2 4 6 8 10 12 14 16 18 20 m

LEVELS & CONTOURS 1:200




Refer to drawing 007 for Ordinary Watercourse Information.

## RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Unknown services/depths within work zone. Contractor to undertake necessary precautions.
2. The works will involve the movement of plant and machinery within a live carriageway and footway. There is a risk of potential conflict between plant/machinary and private vehicles/pedestrains. Contractor to undertake necessary precautions and ensure suitable traffic management is in place prior to commencement.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

### -DRAINAGE KEY-

- Ex S — Existing Storm Water Drain/Sewer
- #Ø 5m @1:# — Storm Water (Private Drain/Public Sewer)
- Rodding Point (Below Ground)
- S# — 480Ø IC (Max 1.2m depth to invert)
- S# — 1200Ø Precast Concrete Ring Storm Water Manhole
- D — Diffuser
- POROUS BLOCK PAVING (TANKED) Concrete baffle to be installed at 5m centres across width of driveway where gradient exceeds 1 in 20. 100mm dia pipes to be installed through baffles at 2m centres.
- Ex F — Existing Foul Water Drain/Sewer
- #Ø 5m @1:# — Foul Water (Private Drain/Public Sewer)
- F# — 480Ø IC (Max 1.2m depth to invert)
- F# — 1200Ø Precast Concrete Ring

Refer to Architects drawings for further information on plot internal detailing, service points and threshold drainage details.

1:200@ A1
1:400@ A3
0 2 4 6 8 10 12 14 16 18 20 m

DRAINAGE 1:200

## NOTES

A1

1. This drawing is to be read in conjunction with all other RGP drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. RGP accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
7. The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
8. The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
9. The contractor must comply with all current legislation relating to health & safety.
10. All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any RGP drawings, the manufacturers instructions must be used.

DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the local authority, building regulations, sewers for adoption, BS8301 & BSEN.752-1.
2. For location and setting out of building drainage points refer to architects drawings.
3. All pipe runs near buildings to comply with the building regulations 2002 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
4. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
5. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid with a concrete bed and surround.
6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
7. All private building drainage shall be constructed in strict accordance with BSEN.752-1. unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of (<1l/s = 1 in 40/>1l/s = 1 in 80) for foul drains and 1 in 80 for surface water drains.
8. All pipes, bends and junction for private building drainage shall be upvc conforming to BS4660 and BS5481 as appropriate and shall be laid in accordance with the manufacturer's specification.
9. All gully connections other than at manholes to be 'y' junctions. All road gully connections to be 150mm diameter.
10. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
11. All connections to be soffit to soffit unless otherwise noted.
12. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
13. The locations and sizes of all svps and rwps shall be cross referenced against the architects drawings during setting out.
14. The precise depth and location and size of existing pipes or manholes where connections or diversion are proposed must be confirmed and reported to the engineer prior to commencement.
15. All soakaways are to be located a minimum of 5m from any proposed or existing buildings.

SUPPORTING DRAWINGS:

| Drg No. | Drg Title. |
|---|---|
| 002 | Engineering Layout |
| 003 | Surface Finishes & Vehicle Tracking |
| 004 | Construction Details Sht 1 |
| 005 | Construction Details Sht 2 |
| 006 | Construction Details Sht 3 |
| 007 | Ordinary Watercourse Information |

| Rev. | Date | Amendments | Drawn | Appr. |
|---|---|---|---|---|
| F | 28/11/2018 | SW Flow control revised to 2l/sec Max | RAA | MJA |
| E | 18/01/2017 | Updated Architect's Layout | RAA | MJA |
| D | 07/10/2016 | Land drainage comments dated 07/10/16 | RAA | MJA |
| C | 30/09/2016 | Land drainage comments dated 27/09/16 | RAA | MJA |
| B | 09/09/2016 | New Architect's Layout | RAA | MJA |
| A | 08/09/2016 | Amendments based on email dated 02/09/16 | RAA | MJA |
| - | 23/08/2016 | Original Issue | RAA | MJA |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Client: Seaward Properties Limited

Project: Land East of Toll Cottage, Lake Lane, Barnham, West Sussex, PO22 0AD

Drawing Title: Engineering Layout

| Scale | Drawn By | Checked By | Approved By |
|---|---|---|---|
| 1:200 | RAA | MJA | MJA |

| Date | Drawing No. | Rev. |
|---|---|---|
| August 2016 | 2015-D1042-002 | F |

ARUN DISTRICT COUNCIL BN/52/19/DOC