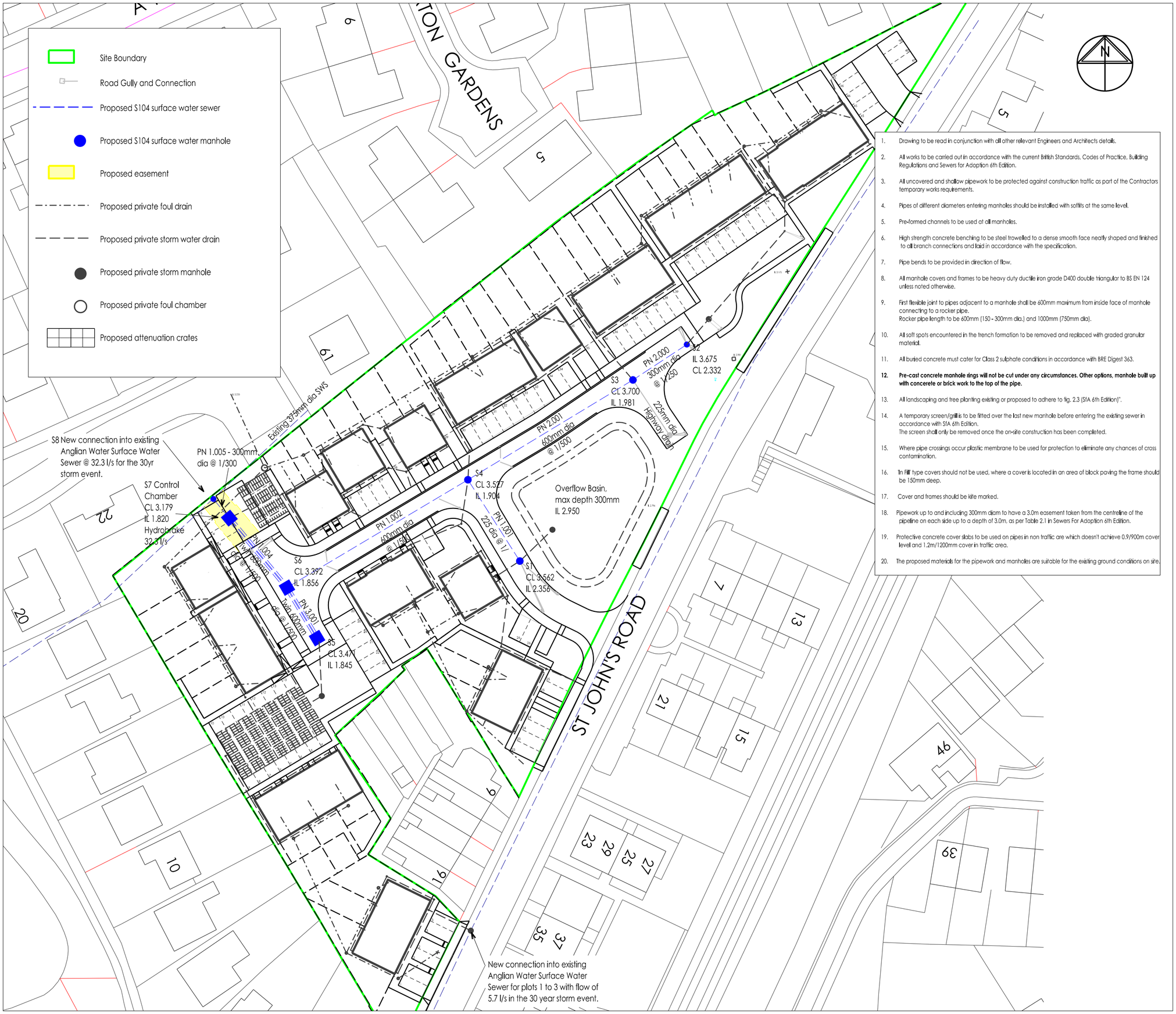


1. Drawing to be read in conjunction with all other relevant Engineers and Architects details.
2. All works to be carried out in accordance with the current British Standards, Codes of Practice, Building Regulations and Sewers for Adoption 6th Edition.
3. All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.
4. Pipes of different diameters entering manholes should be installed with soffits at the same level.
5. Pre-formed channels to be used at all manholes.
6. High strength concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the specification.
7. Pipe bends to be provided in direction of flow.
8. All manhole covers and frames to be heavy duty ductile iron grade D400 double triangular to BS EN 124 unless noted otherwise.
9. First flexible joint to pipes adjacent to a manhole shall be 600mm maximum from inside face of manhole connecting to a rocker pipe.
   Rocker pipe length to be 600mm (150 - 300mm dia.) and 1000mm (750mm dia).
10. All soft spots encountered in the trench formation to be removed and replaced with graded granular material.
11. All buried concrete must cater for Class 2 sulphate conditions in accordance with BRE Digest 363.
12. **Pre-cast concrete manhole rings will not be cut under any circumstances. Other options, manhole built up with concerete or brick work to the top of the pipe.**
13. All landscaping and tree planting existing or proposed to adhere to fig. 2.3 (SfA 6th Edition)".
14. A temporary screen/grill is to be fitted over the last new manhole before entering the existing sewer in accordance with SfA 6th Edition.
    The screen shall only be removed once the on-site construction has been completed.
15. Where pipe crossings occur plastic membrane to be used for protection to eliminate any chances of cross contamination.
16. In Fill' type covers should not be used, where a cover is located in an area of block paving the frame should be 150mm deep.
17. Cover and frames should be kite marked.
18. Pipework up to and including 300mm diam to have a 3.0m easement taken from the centreline of the pipeline on each side up to a depth of 3.0m, as per Table 2.1 in Sewers For Adoption 6th Edition.
19. Protective concrete cover slabs to be used on pipes in non traffic are which doesn't achieve 0.9/900m cover level and 1.2m/1200mm cover in traffic area.
20. The proposed materials for the pipework and manholes are suitable for the existing ground conditions on site.

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Contractors must verify all dimensions, levels and co-ordinates at the site before commencing any work or making any shop drawings; no dimensions to be taken from drawing.

Allowable discharge from site into Anglian Water Surface Water Sewer is 38 l/s in the 30 year storm event.

Any flood volume in the 100yr + 40 % c/c storm event to be retained within the site.

Rev	Description	Drn	Vf'd	Date
-	Issued for planning	CM	PAE	06/17

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: H

☒ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature	CM	Date	06/17

Drawing Status
PLANNING

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Project
Residential Development
St Johns Road
Spalding
Lincolnshire

Client
GEDA Construction

Title
S104 Layout

Drawn	Date	Scale	
CM	June 2016	1:500	@ A2
Discipline	**Project Number**	**Drawing Number**	**Revision**
Civils	11582	(9)10	-