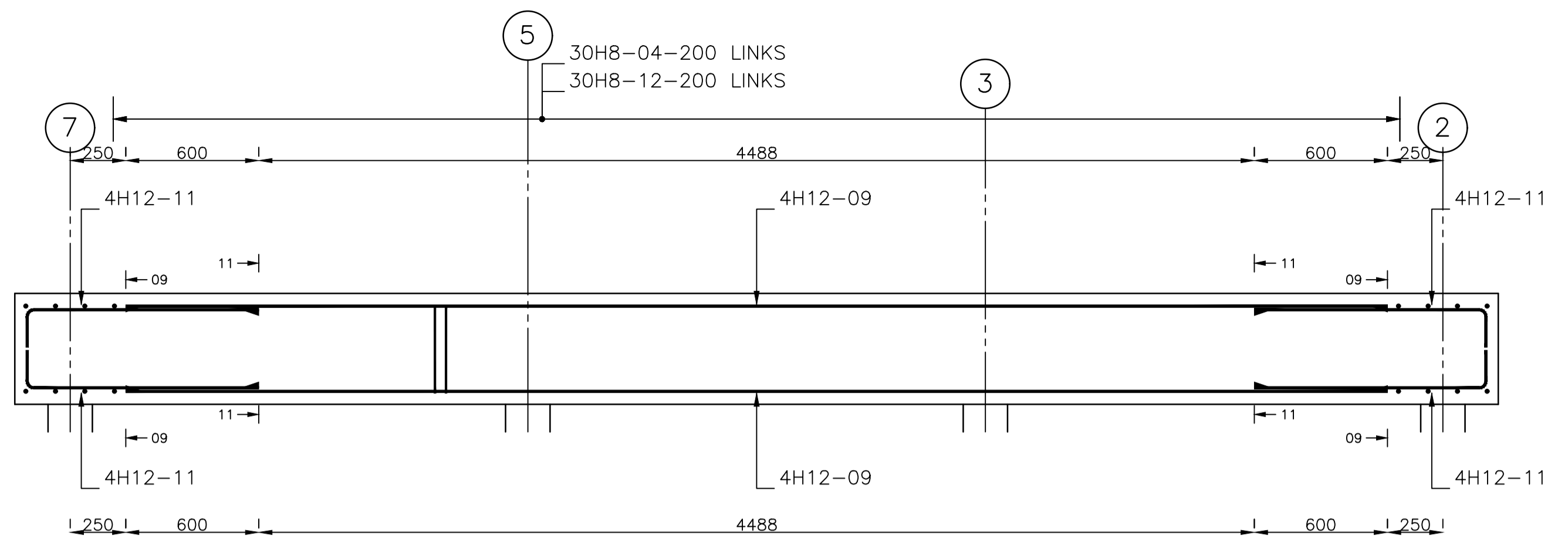
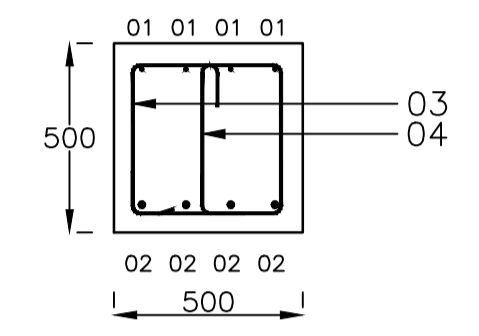
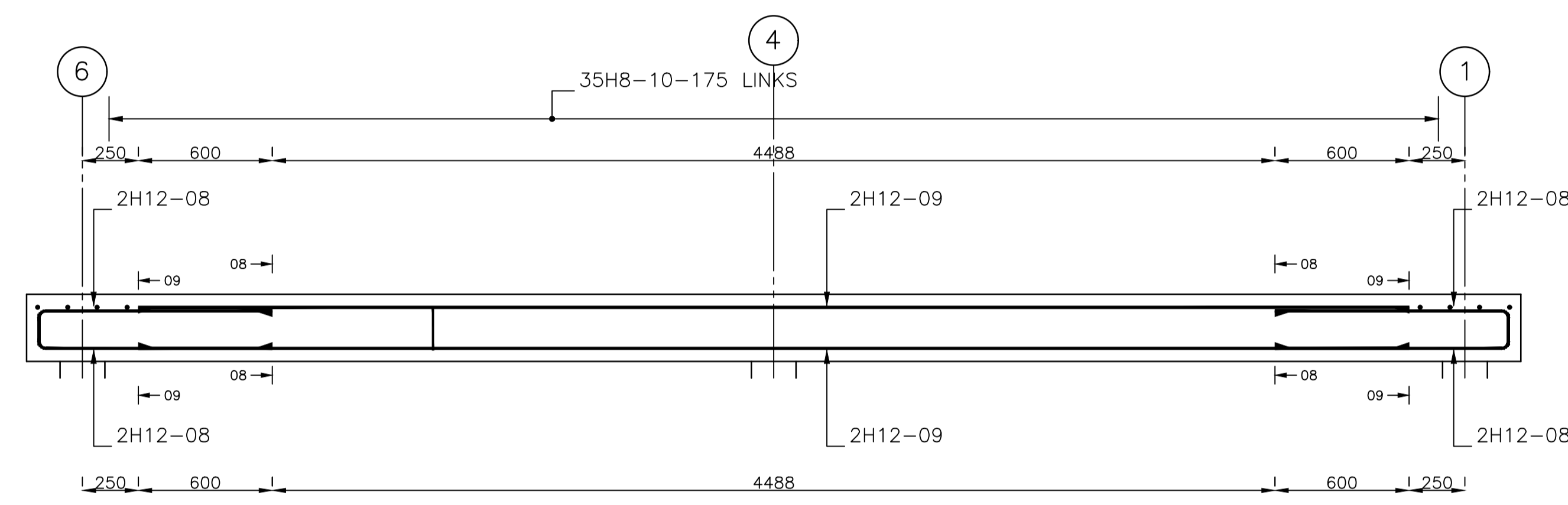
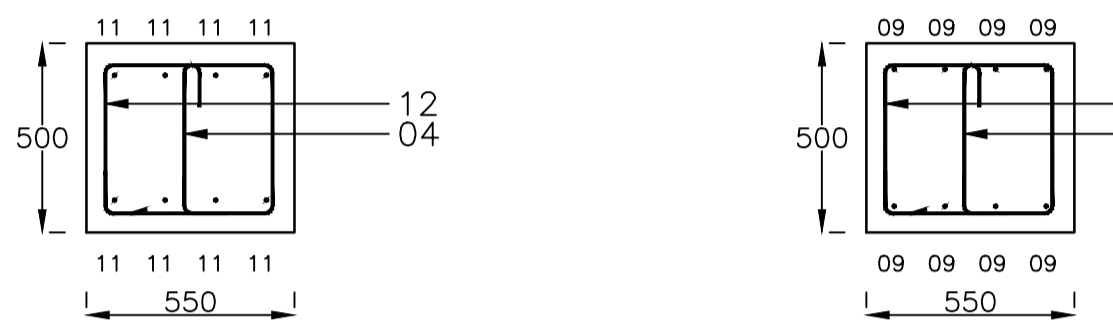


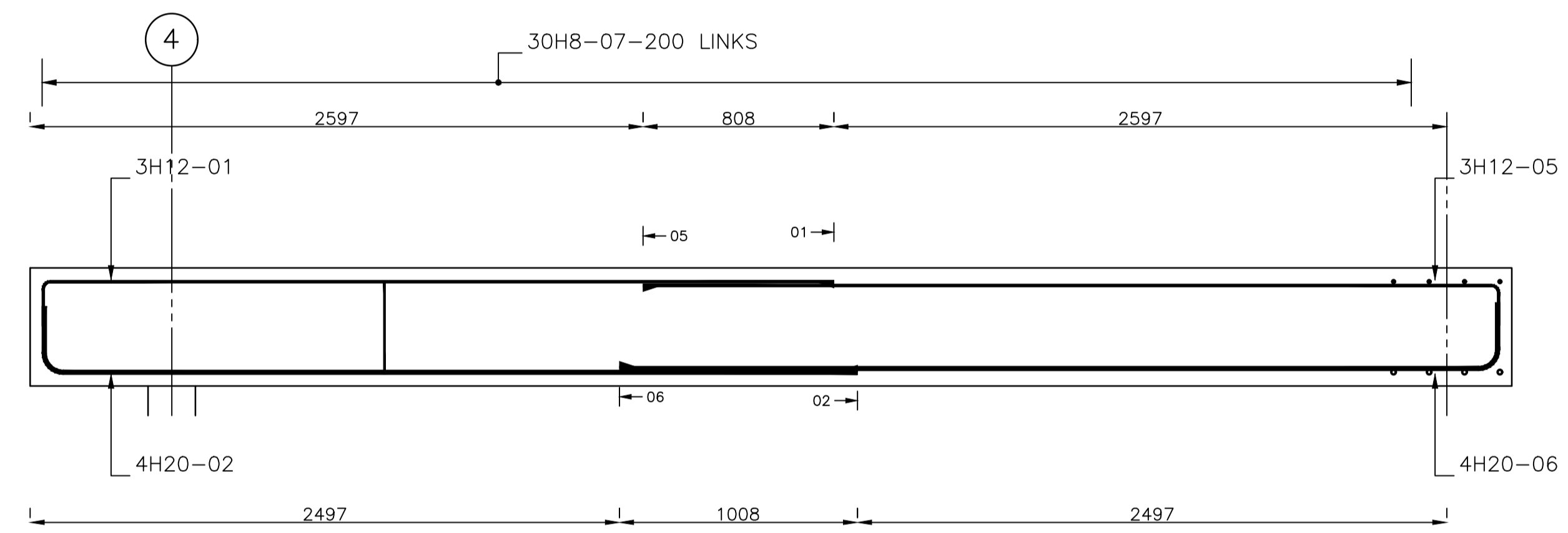
Beams 1-2 & 5-6
2 No. Thus
Scale 1: 20



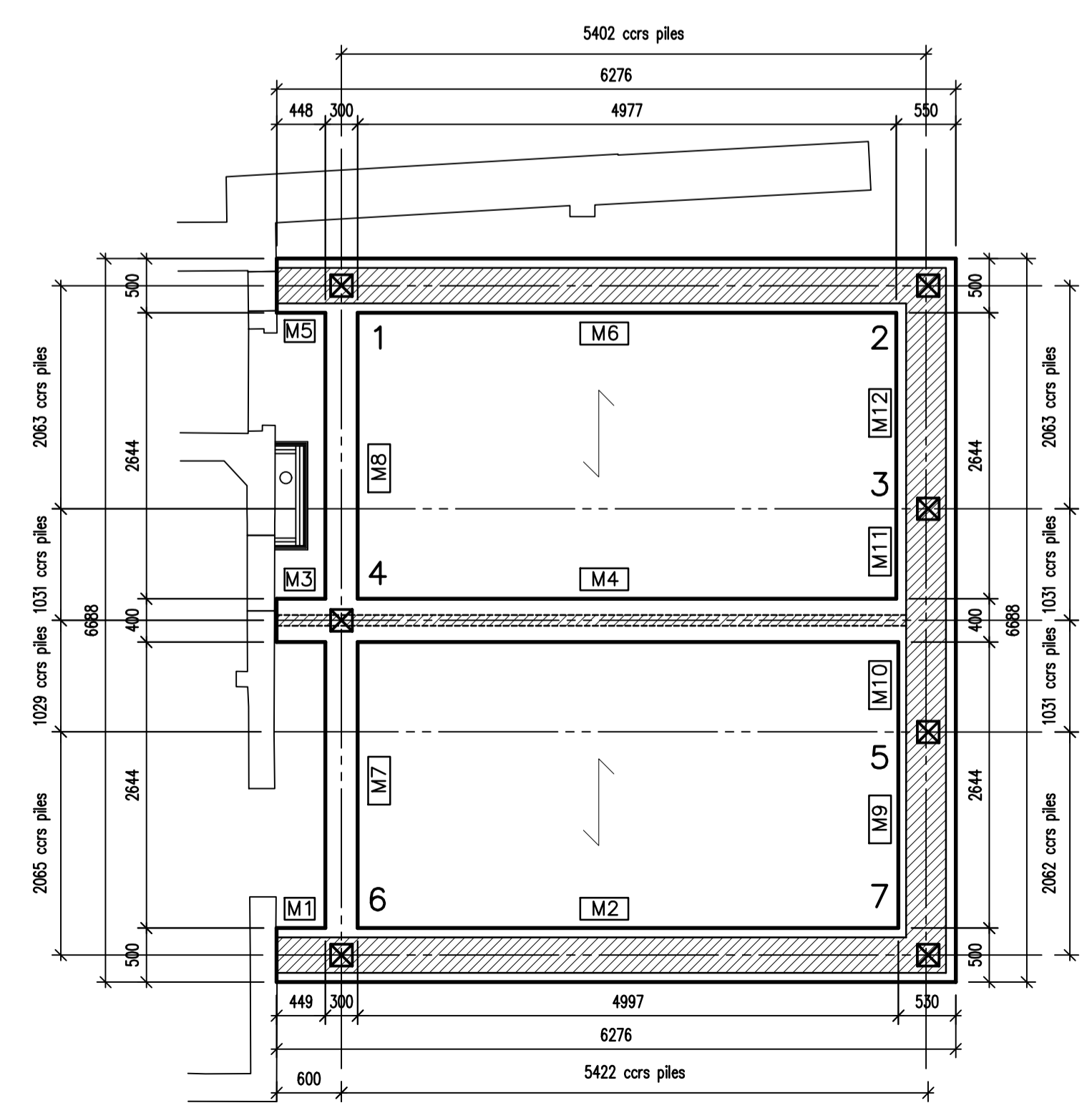
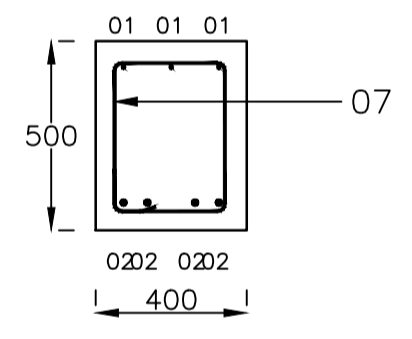
Beams 9-12
1 No. Thus
Scale 1: 20



Beams 7-8
1 No. Thus
Scale 1: 20



Beams 3-4
1 No. Thus
Scale 1: 20



G.A. Layout Scale 1:50

PRIOR TO THE COMMENCEMENT OF ANY GROUND BEAM WORKS, TO SPECIFIC PLOTS, THE CONTRACTOR MUST CONFIRM EXACT HOUSE TYPE & HANDINGS AGAINST THE CURRENT SITE LAYOUT & CONFIRM WITH THE SITE AGENT. ANY QUERIES MUST BE IDENTIFIED TO KEEPMOAT HOMES & REFA IF THERE ARE ANY CLASHES OR DOUBTS

PRIOR TO THE PLOT BEING SLABED ALL DIMENSIONS ARE TO BE CHECKED BY THE GROUNDWORKERS' ENGINEER AGAINST THE ARCHITECTS DRAWINGS, ANY ERRORS TO BE REPORTED TO THE DEVELOPMENT DEPARTMENT.

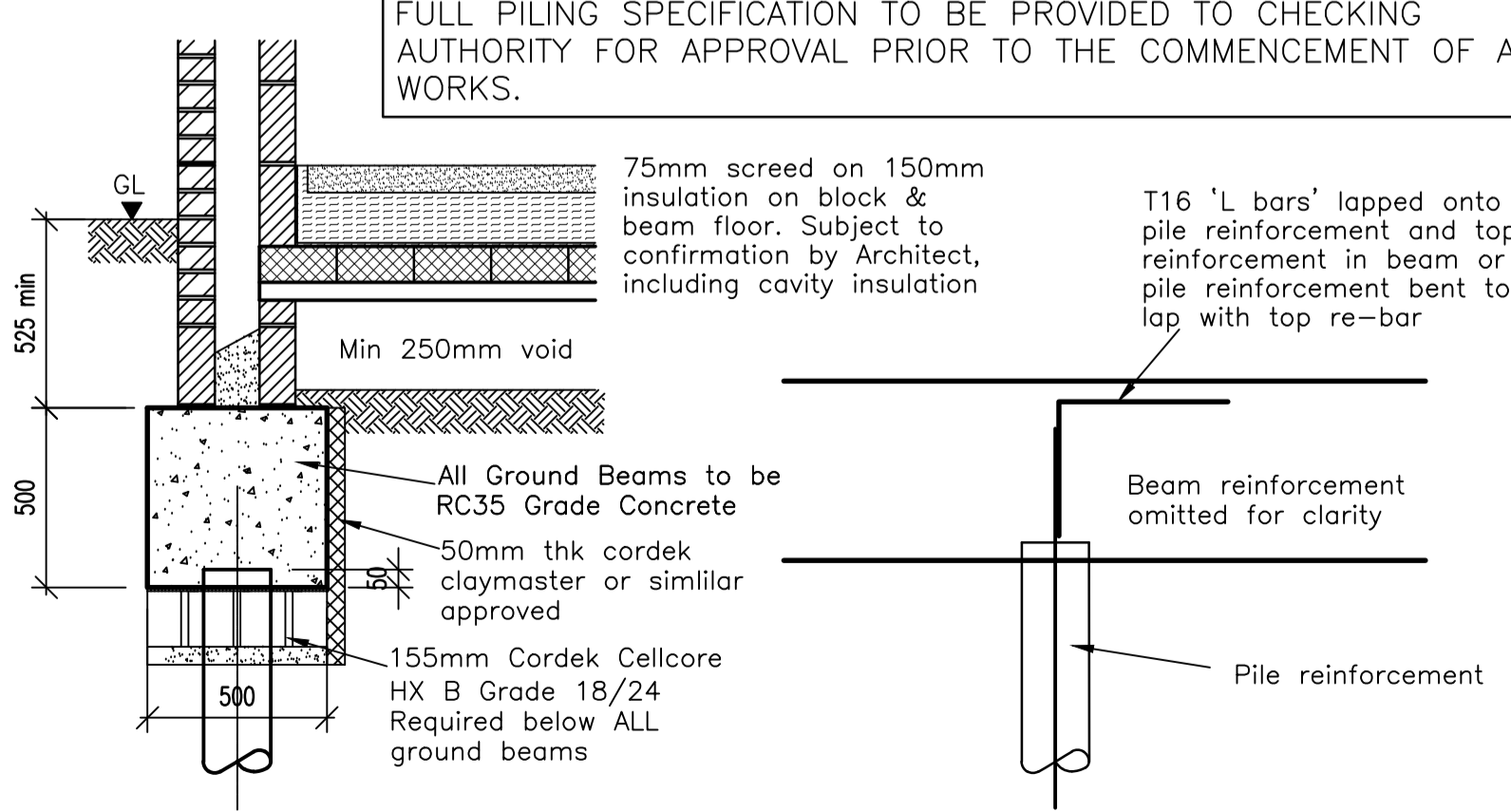
THESE PLOTS HAVE BEEN IDENTIFIED AS REQUIRING PILED FOUNDATIONS, THE PILES ARE TO BE DESIGNED BY SPECIALIST PILING CONTRACTORS ENGINEERS

REFER TO ARCHITECTS WORKING DRAWINGS & LATEST DRAINAGE LAYOUT FOR CONFIRMATION OF DRAINAGE POSITIONS

ALL PILES 150kN SWL

SPAN OF FLOORS

PILING CONTRACTOR SHOULD ENSURE THAT METHOD OF INSTALLATION & DEPTH OF PILE ARE APPROPRIATE TO A MEDIUM VOLUME CHANGE POTENTIAL SOIL & SUFFICIENT TO RESIST TENSILE UPLIFT FORCES GENERATED BY POSSIBLE FUTURE HEAVE OF THE SOILS.
FULL PILING SPECIFICATION TO BE PROVIDED TO CHECKING AUTHORITY FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.



Typical Edge Detail
Scale 1:20

Pile Detail
Scale 1:20

C.D.M. Regulations 2015

In line with the above regulations we are obliged to inform the Client of the risks that may be encountered in the construction of these works. All design work has been carried out with Health and Safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design. We would also respectfully remind the Client of his obligations to take all reasonable in ensuring that only competent contractors who have a valid safety policy are employed. They should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by REFA below:-

1. People falling during steel fixing and erection of formwork
2. Collapse of falsework or formwork
3. Materials falling during the striking of the formwork
4. Inhalation of silicon dust from scabbling procedure
5. Cement burns from wet cement
6. Skin/eye irritation from concrete materials
7. Arm and back strain to steel fixers
8. Moving plant during concrete procedure
9. Puncture injuries to steel fixers
10. People working in excavations deeper than 1000mm must not enter unless certified by the Building Inspector
11. Elements heavier than 20kg must not be used unless suitable lifting equipment is utilised

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public. For clarification on any item please contact REFA.

NOTES

All concrete to ground beams to be RC35 (BS5328:Part 1 & 2: 1997)
Cover to reinforcement to be maintained at 50mm to all steel (including links) on all faces.
All reinforcement is to be securely fixed and tied prior to the pouring of concrete. Concrete is to be poured in one continuous operation with no daywork or other joints unless agreed with the Engineer prior to commencement.
All concrete is to be well vibrated to ensure that it reaches optimum density in all areas. Particular care should be exercised around all reinforcement and in all formwork corners.
All reinforcement is to be inspected and approved by Building Inspector or Engineer prior to pouring of concrete.
Exposed surfaces of concrete should be covered with visqueen membrane or other suitable protection for a period of at least 3 days (if average temperature falls below 10°C then period must be extended). After this time formwork and protection may be removed. Where it is intended that concreting will take place in cold weather conditions specific advice of Engineer should be sought.
Piles to be set out and driven in the positions indicated, any variations in location greater than 75mm must be reported to the Engineer prior to fixing reinforcement.
Piles to be cut to required levels by use of a mechanical cropper. Hand held pneumatic tools must not be used.

Revision	Revision details	Date

Drawing Stage	Drawing Status
<input type="checkbox"/> Draft <input checked="" type="checkbox"/> Issued <input type="checkbox"/> Preliminary	<input type="checkbox"/> Tender <input checked="" type="checkbox"/> Information <input type="checkbox"/> Approval <input type="checkbox"/> Construction <input type="checkbox"/> As Built

Client
Broughton-in-Amounderness Parish Council

Job title
**Toll Bar Cottage
476 Garstang Road
Broughton**

Drawing title
**Extension Piling & Ground
Beams Layout & Details**

REFA CONSULTING ENGINEERS
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Chkd	Appvd	date	scale	drawn	RS
		10.02.20	1:50 & 1:20		

DRAWING No **19192/03**

Any discrepancies to this drawing discovered on site should be reported to REFA immediately, IF IN DOUBT ASK!