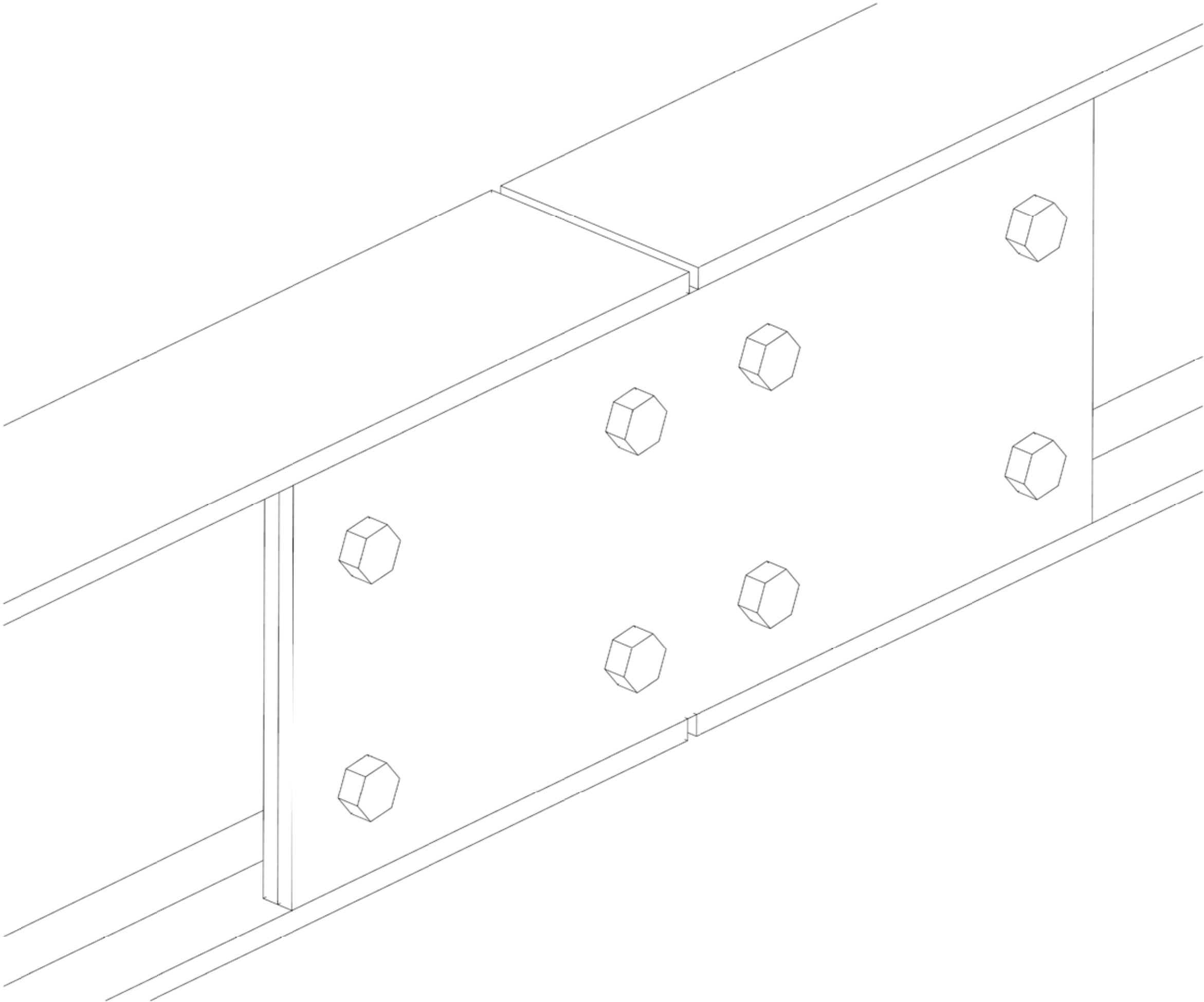




NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each beam extension -
4 x 360x145 mm plates
6 mm thick

REV.	DATE	NOTE
A	2019 / 02 / 08	detail geometry

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

 
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Beam to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 04

REVISION

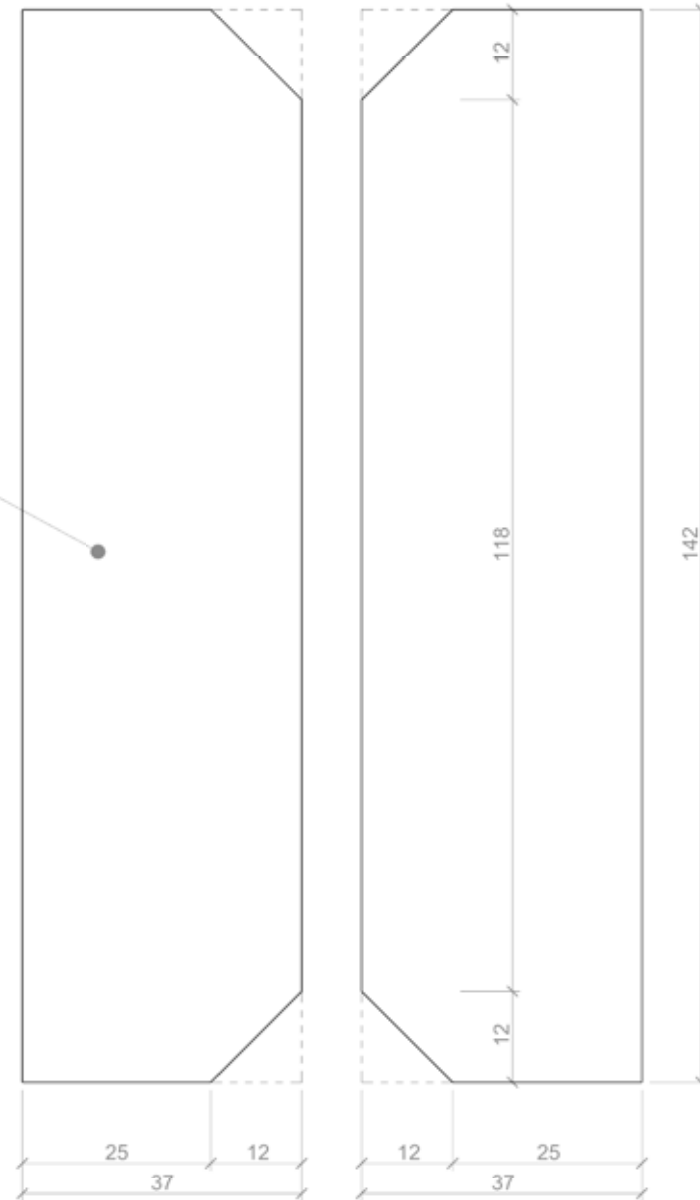
A

ARCHIVE TITLE

GM_A524_beam_to_beam_connection



A3



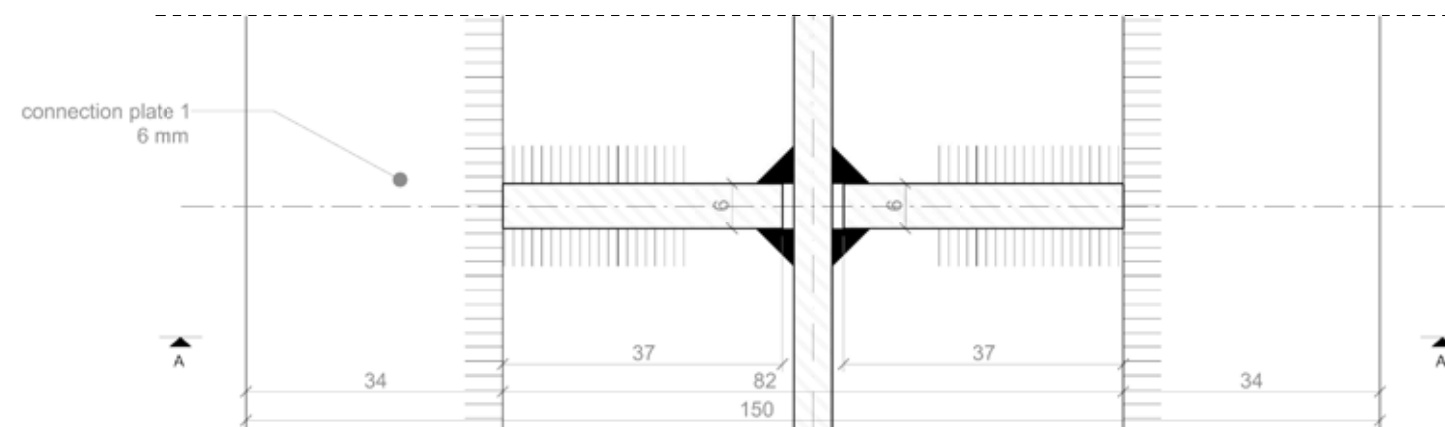
Technical drawing of a welded moment-resisting joint between an IPE160 beam and a column. The drawing shows a side elevation of the joint with dimensions and labels.

Labels:

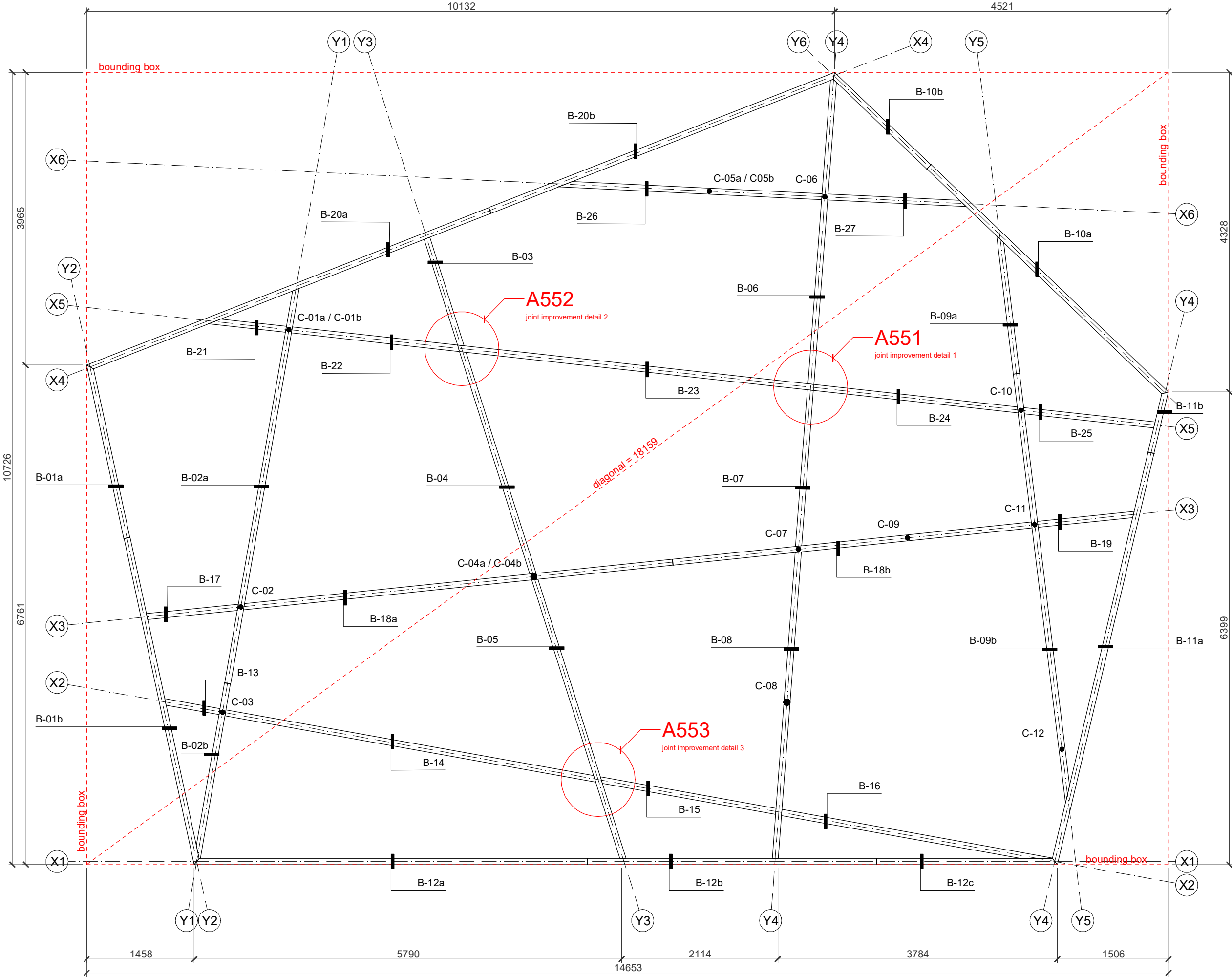
- IPE160 beam
- shop welding 5 mm
- stiffener plate 6 mm
- connection plate 1 6 mm
- connection plate 2 6 mm
- column 88.9 mm

Dimensions:

- 37
- 37
- 142
- 160
- 19
- 56
- 150
- 56
- 19
- 6
- 6



A
ARCHIVE TITLE
GM_A526_beam_stiffeners_connection



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT


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University of Applied Arts Vienna

DRAWING

Roof -1
Structure Fabrication Plan

AUTHOR

Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 04

REVISION

A

ARCHIVE TITLE

GM_A422_roof1_structure_beams_plan

existing
connection plate T-Ortho

B-06

2x M12

existing M12

2x 6mm stiffener plate

2x M12

B-23

B-24

existing
1x M12

existing
connection plate T-Ortho

2x 6mm stiffener plate

2x M12

2x M12

2x 6mm stiffener plate

existing M12

2x M12

B-07

existing
connection plate T-Ortho

NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

M12 bolts to be used for details
Drilled hole must be no bigger than D=13
mm

REV.	DATE	NOTE
-	-	-

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

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University of Applied Arts Vienna

DRAWING
Detail
Joint improvement detail 1

AUTHOR
Toms Kampars

SCALE 1:2	DATE 2019 / 04 / 07
--------------	------------------------

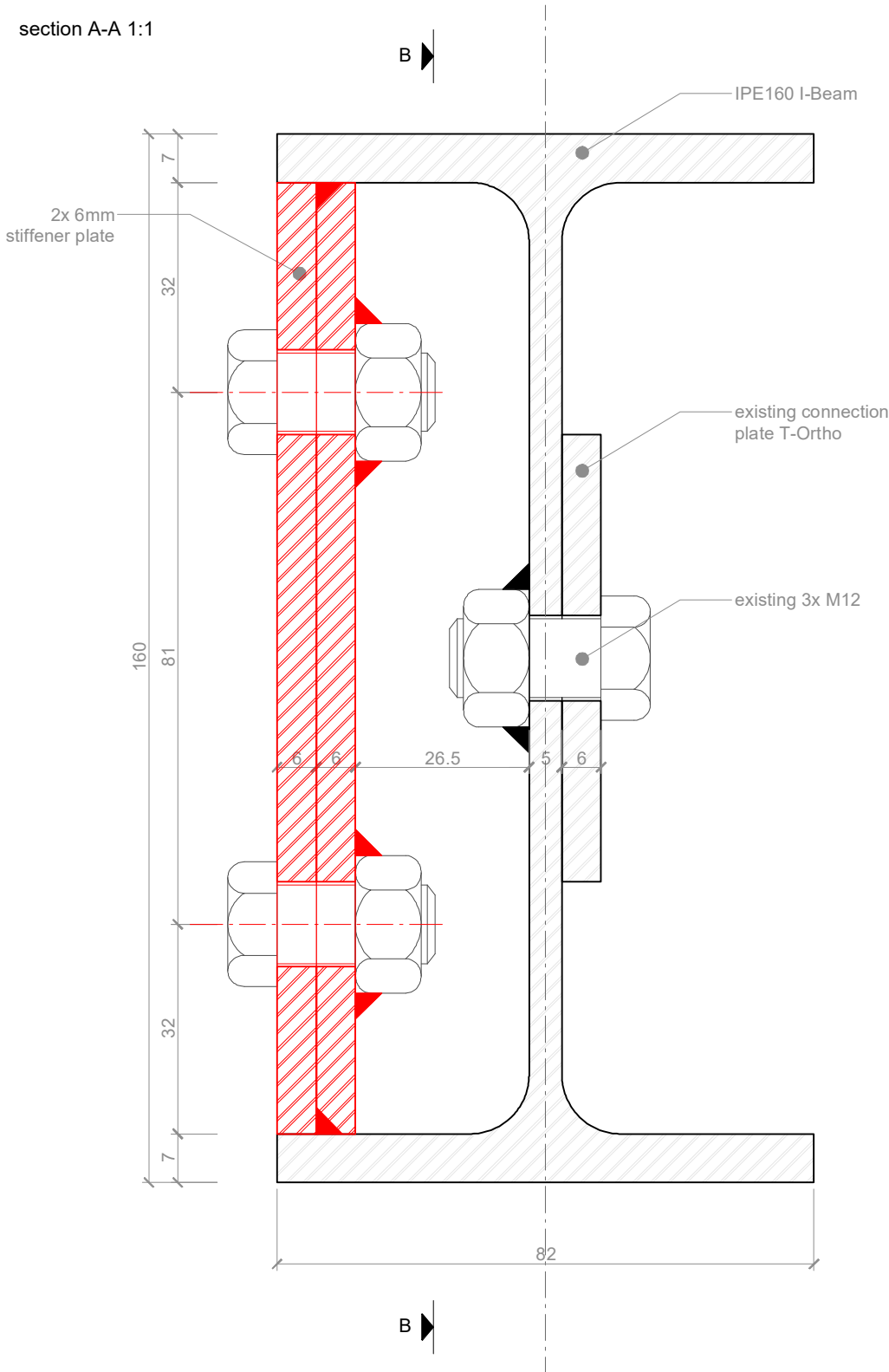
REVISION

ARCHIVE TITLE
GM_A551_joint_improvement_detail_1

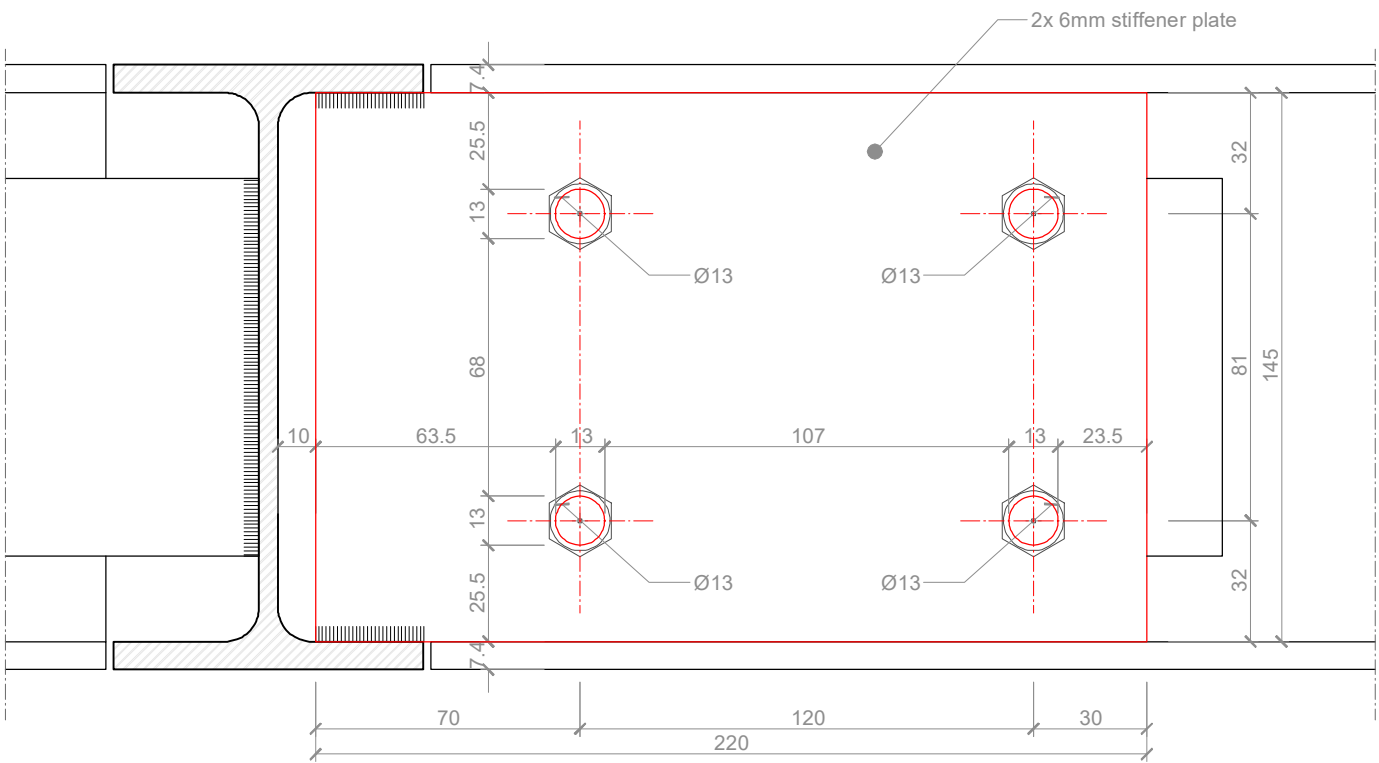
JOINT IMPROVEMENT DETAIL 1

plan 1:2

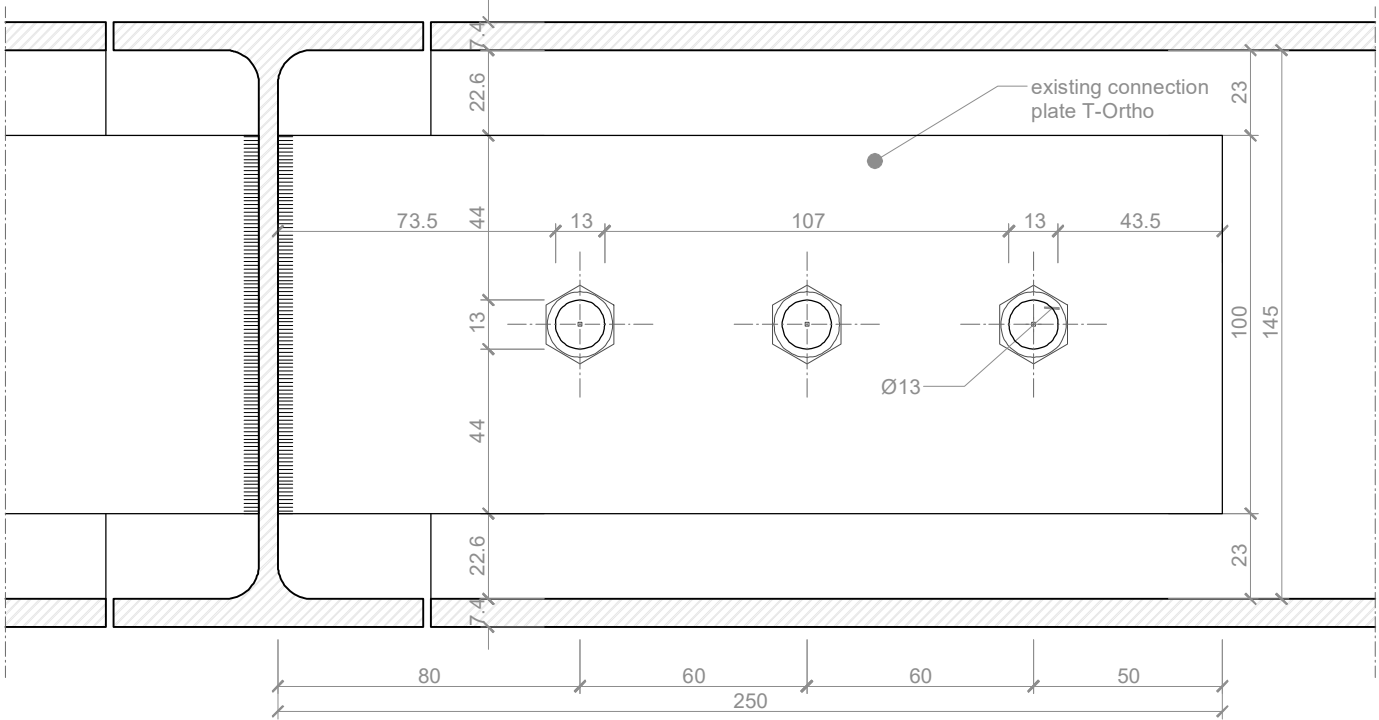
section A-A 1:1



elevation 1:2



section B-B 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger than D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Detail
Joint improvement detail 1

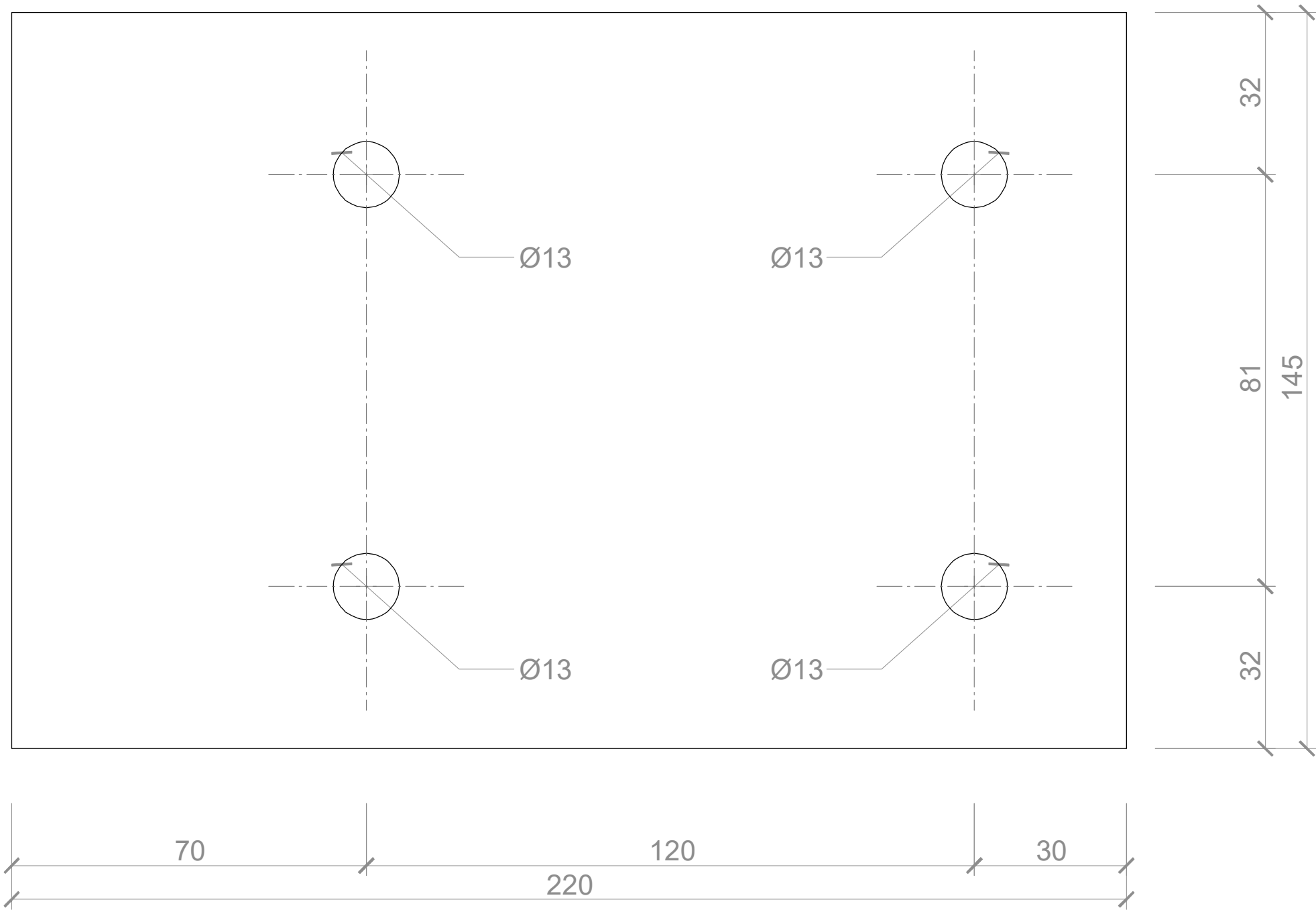
AUTHOR
Toms Kampars

SCALE	DATE
1:1, 1:2	2019 / 04 / 07

REVISION
-

ARCHIVE TITLE
GM_A551_joint_improvement_detail_1

PLATE WORKSHOP DRAWING 1:1



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

 
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 1

AUTHOR

Toms Kampars

SCALE	DATE
1:1, 1:2	2019 / 04 / 07

REVISION

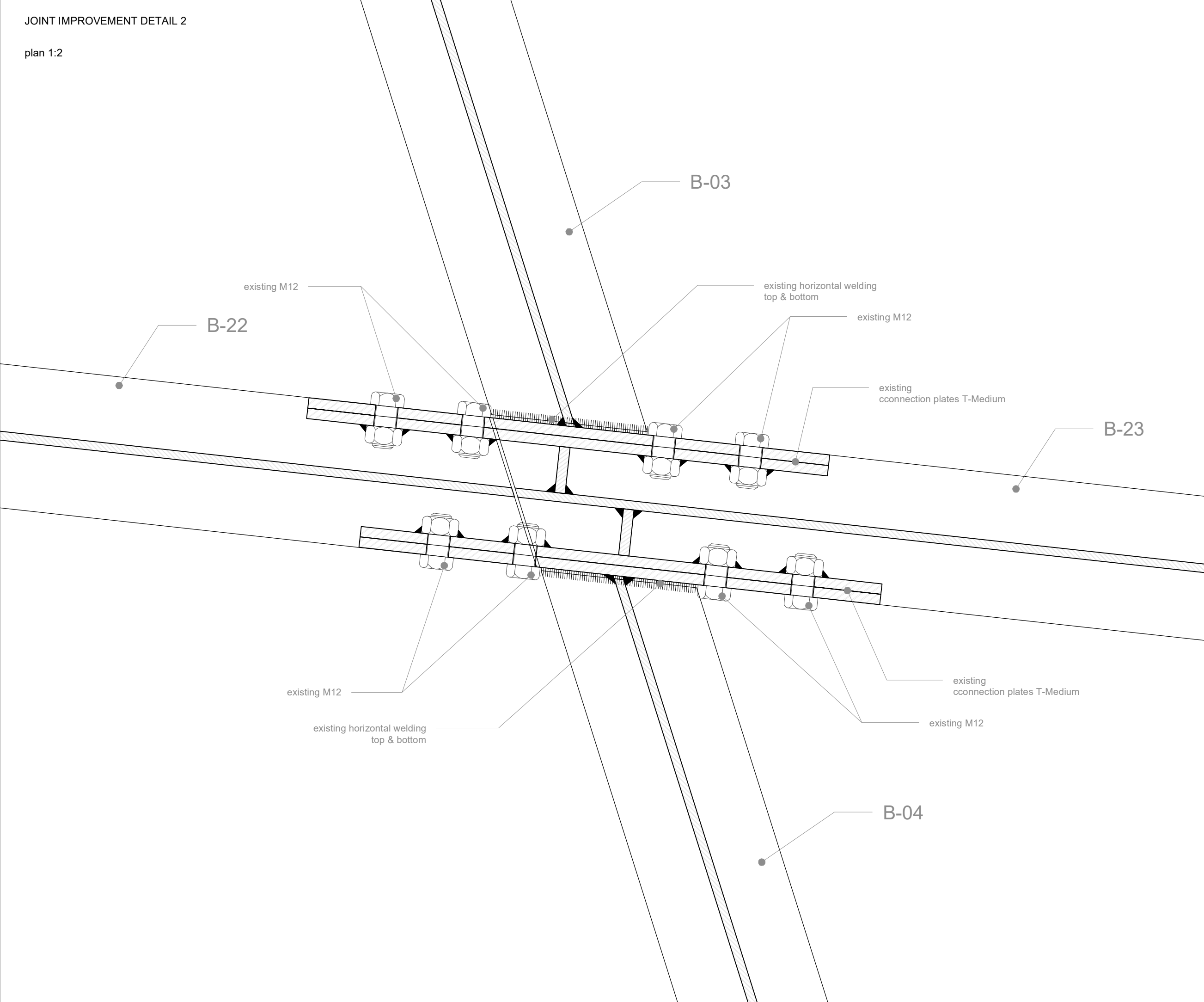
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ARCHIVE TITLE

GM_A551_joint_improvement_detail_1

JOINT IMPROVEMENT DETAIL 2

plan 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger than D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT


[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 2

AUTHOR

Toms Kampars

SCALE	DATE
1:2	2019 / 04 / 07

REVISION

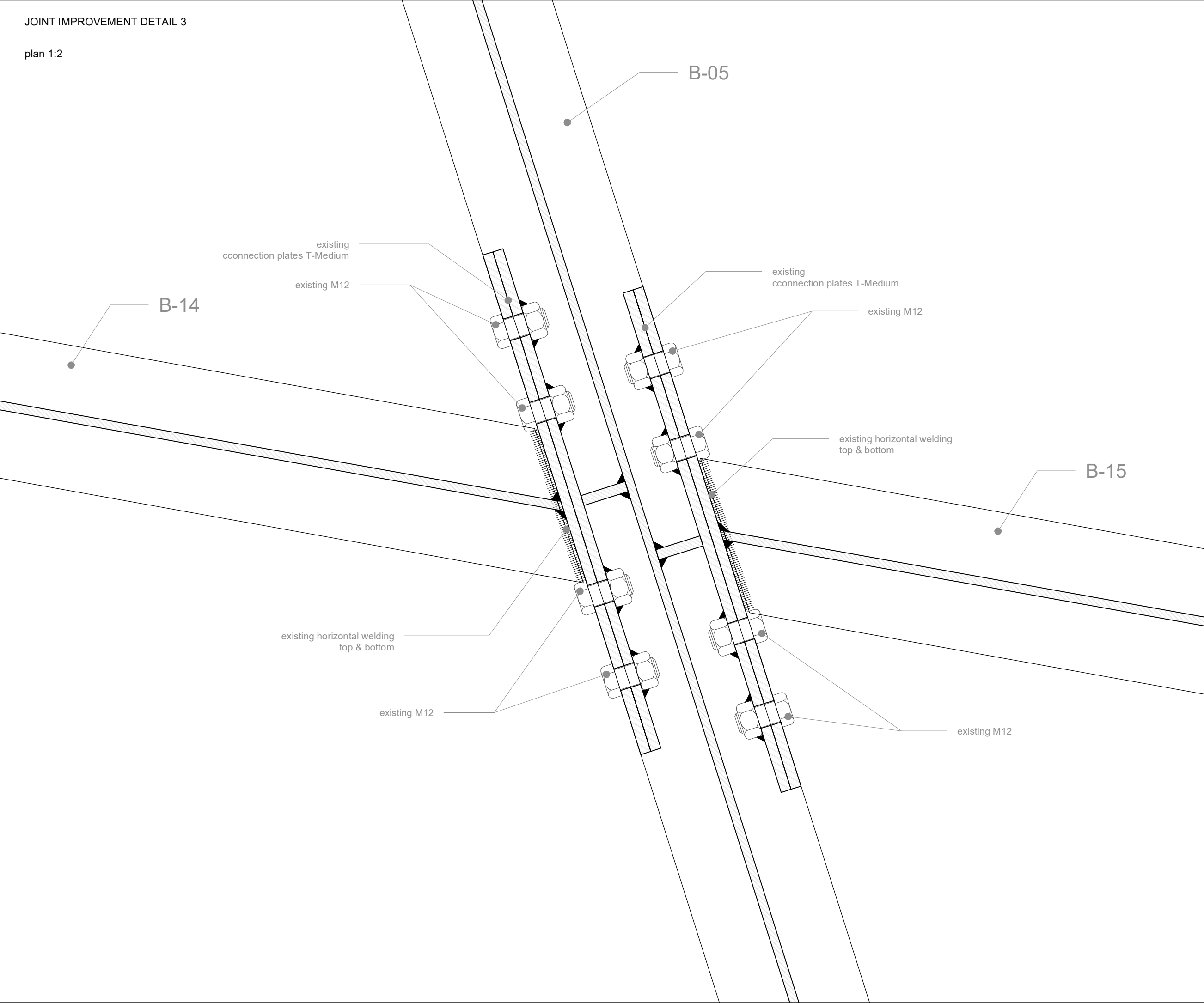
-

ARCHIVE TITLE

GM_A552_joint_improvement_detail_2

JOINT IMPROVEMENT DETAIL 3

plan 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger that D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


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Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT


[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 3

AUTHOR

Toms Kampars

SCALE	DATE
1:2	2019 / 04 / 07

REVISION

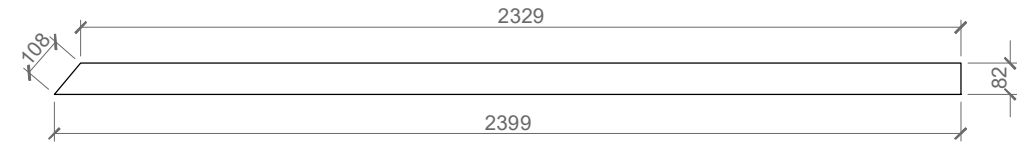
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ARCHIVE TITLE

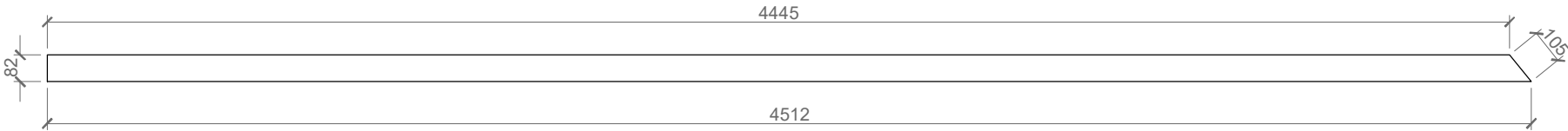
GM_A553_joint_improvement_detail_3

Roof -1
Beam Schedule 1

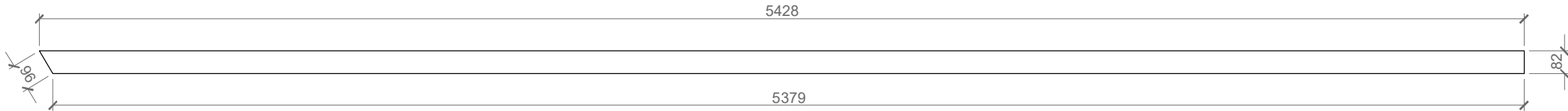
B-01a



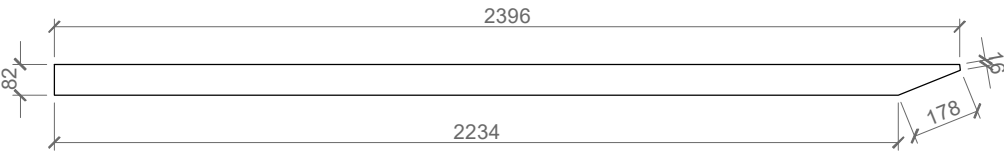
B-01b



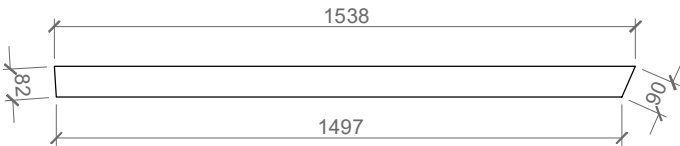
B-02a



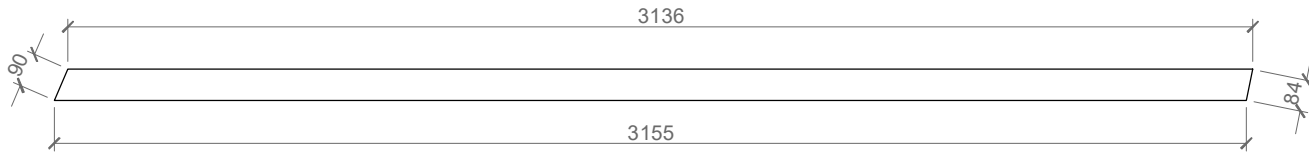
B-02b



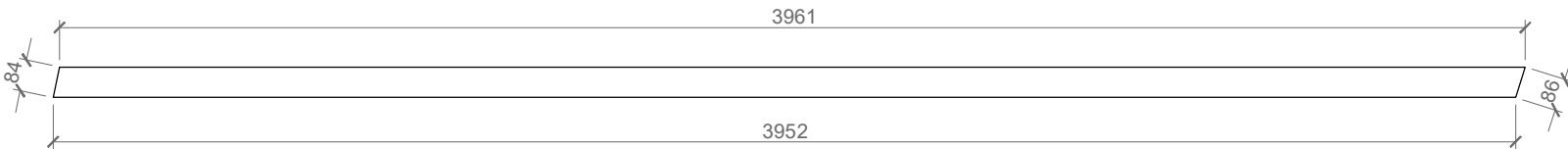
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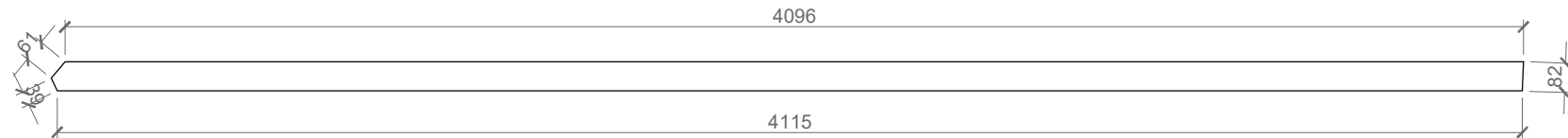
B-04



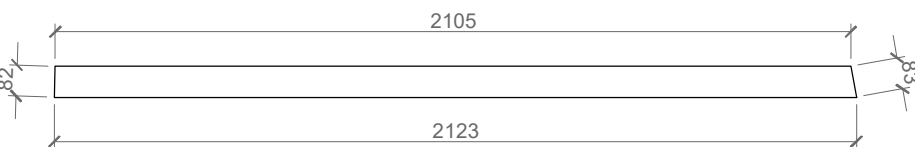
B-05



B-06



B-07



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

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University of Applied Arts Vienna

DRAWING
Roof -1
Beam Schedule

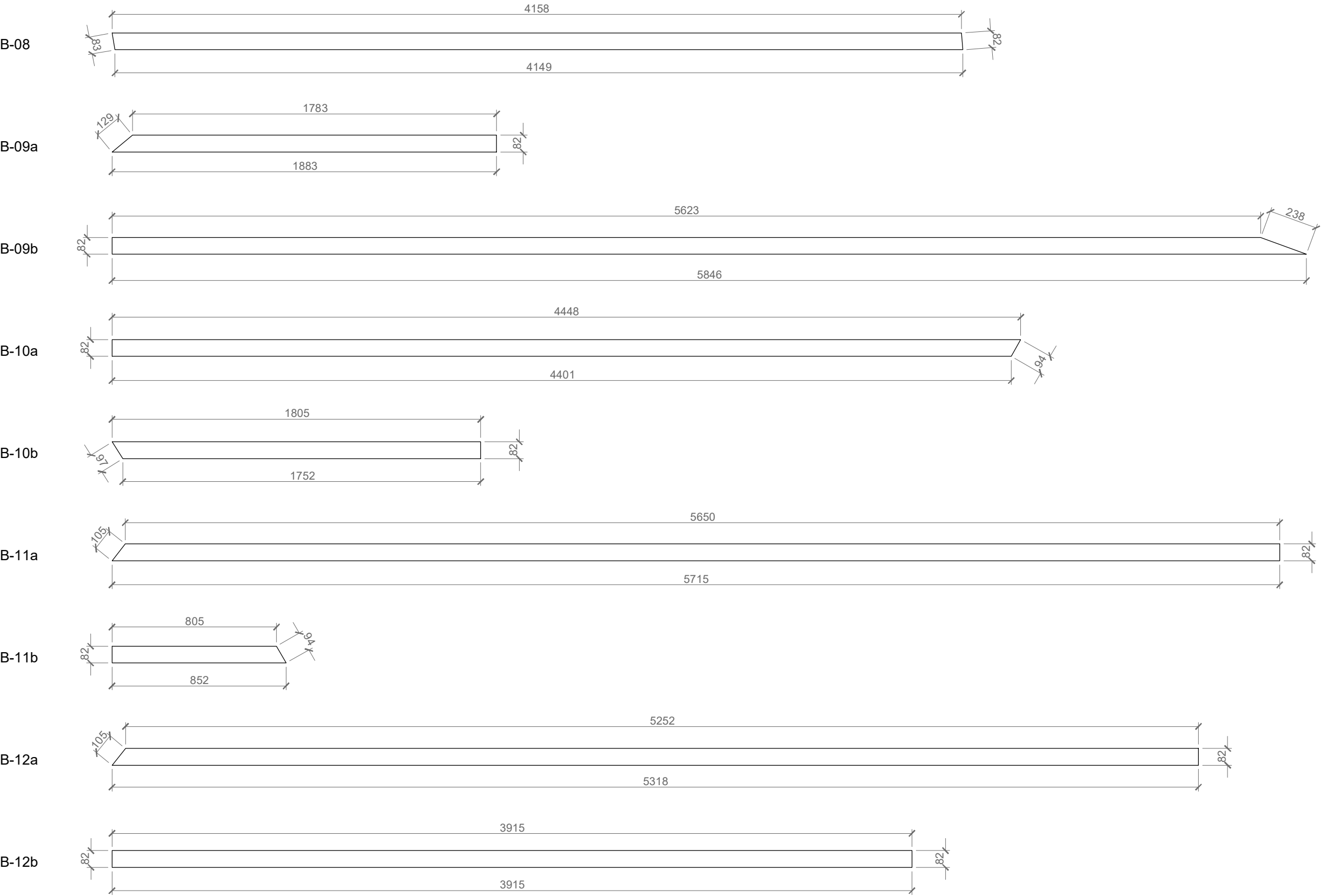
AUTHOR
Magdalena Gorecka
Toms Kampars

SCALE
1:20
DATE
2019 / 02 / 04

REVISION
A

ARCHIVE TITLE
GM_A611_beam_schedule_1

Roof -1
Beam Schedule 2



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT


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University of Applied Arts Vienna

DRAWING

Roof -1
Beam Schedule

AUTHOR

Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 04

REVISION

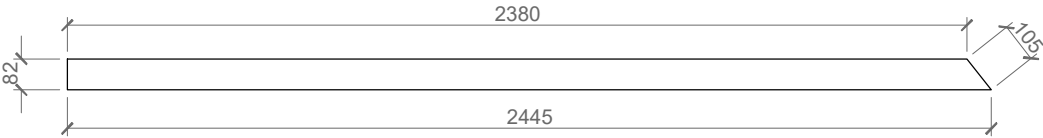
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ARCHIVE TITLE

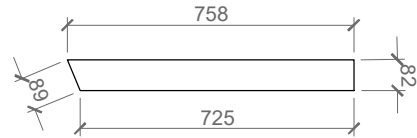
GM_A611_beam_schedule_2

Roof -1
Beam Schedule 3

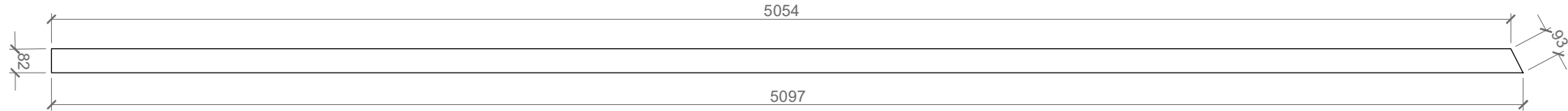
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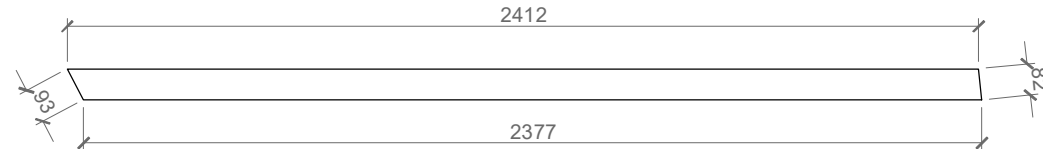
B-13



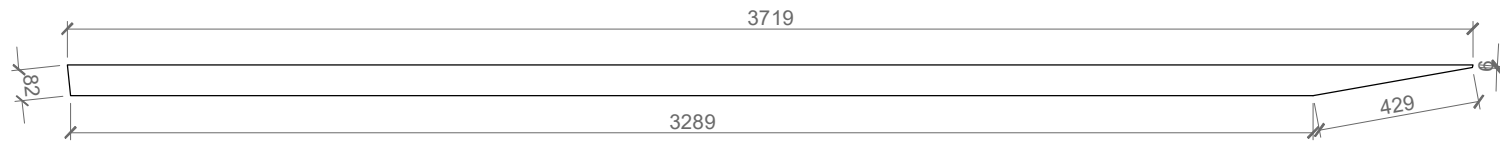
B-14



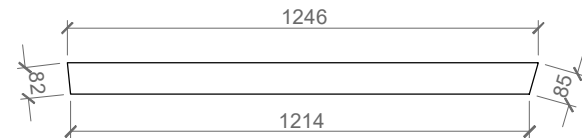
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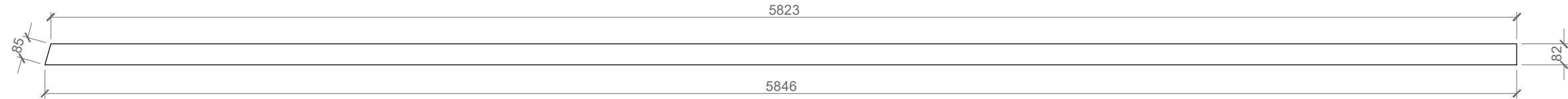
B-16



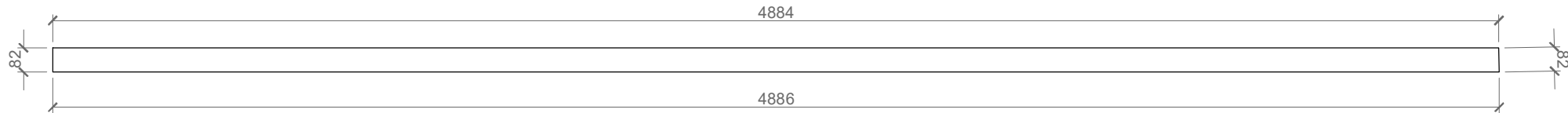
B-17



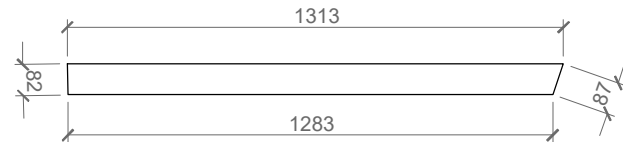
B-18a



B-18b



B-19



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Beam Schedule

AUTHOR
Magdalena Gorecka
Toms Kampars

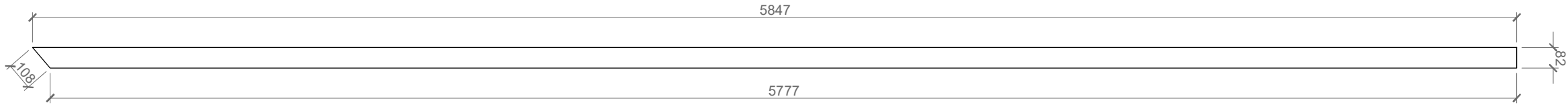
SCALE
1:20
DATE
2019 / 02 / 04

REVISION
A

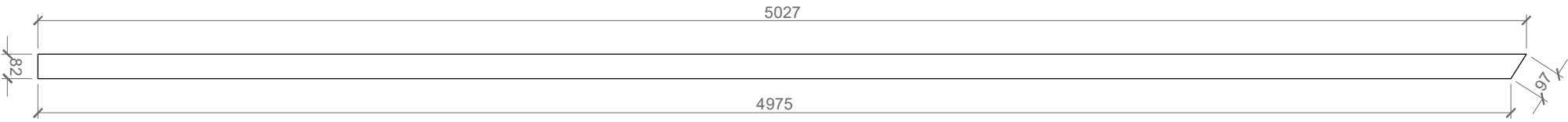
ARCHIVE TITLE
GM_A611_beam_schedule_3

Roof -1
Beam Schedule 4

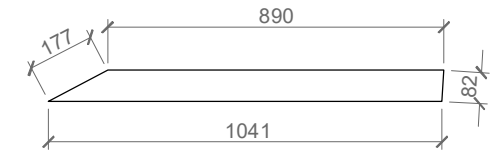
B-20a



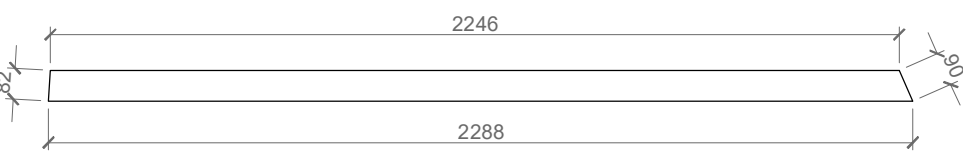
B-20b



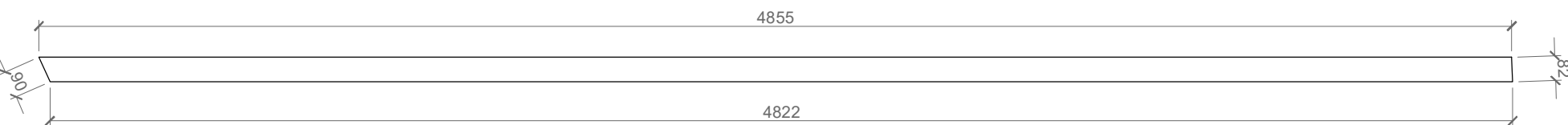
B-21



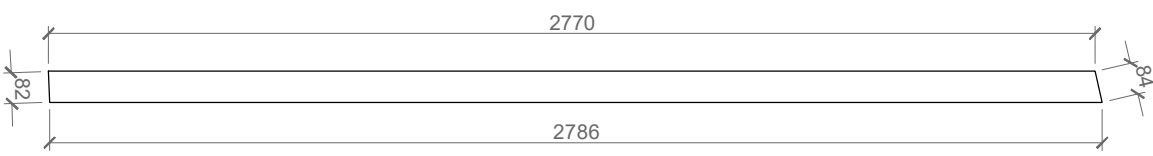
B-22



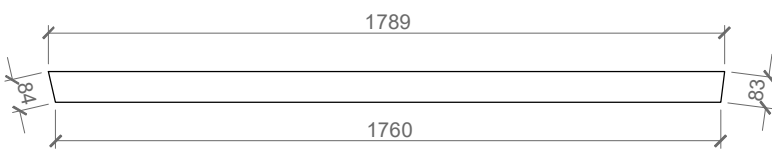
B-23



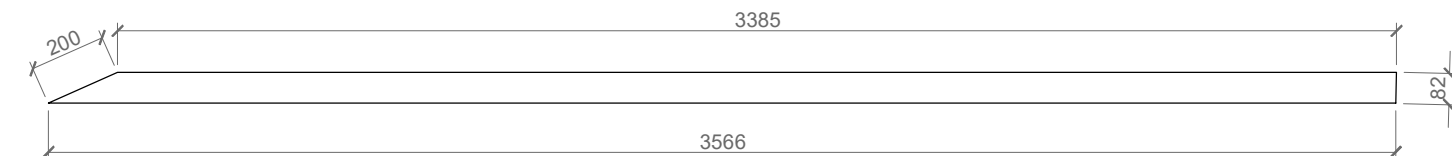
B-24



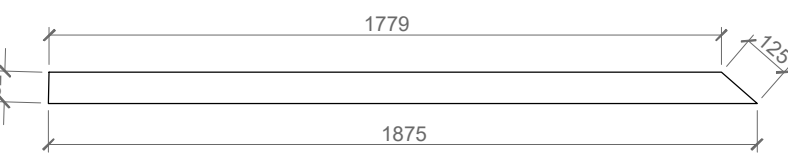
B-25



B-26



B-27



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Beam Schedule

AUTHOR
Magdalena Gorecka
Toms Kampars

SCALE
1:20

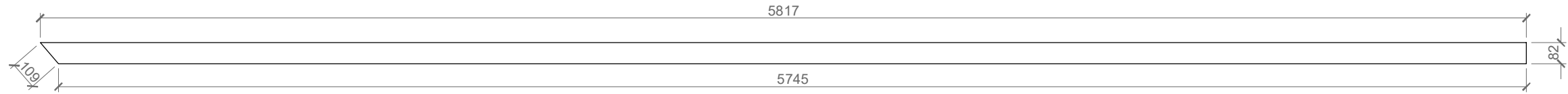
DATE
2019 / 02 / 04

REVISION

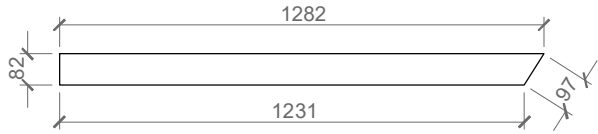
A
ARCHIVE TITLE
GM_A611_beam_schedule_4

ROOF-2
BEAM SCHEDULE 5
1:20

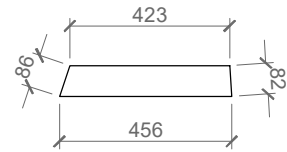
B-31a



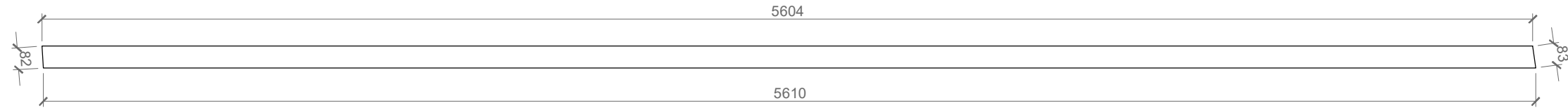
B-31b



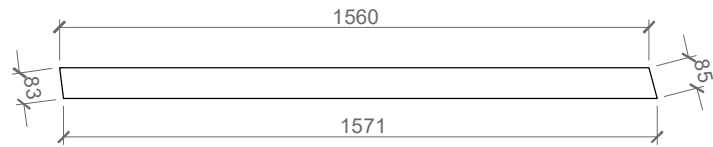
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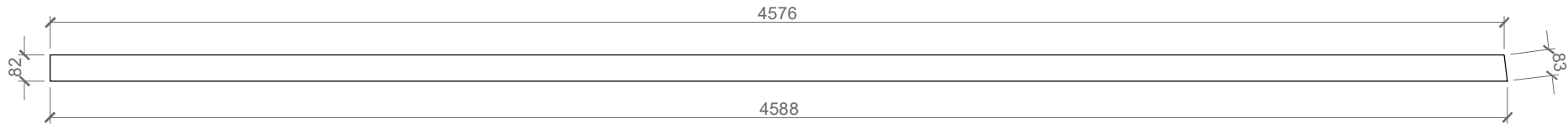
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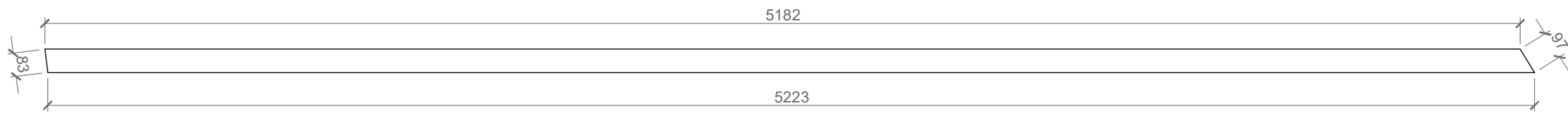
B-34



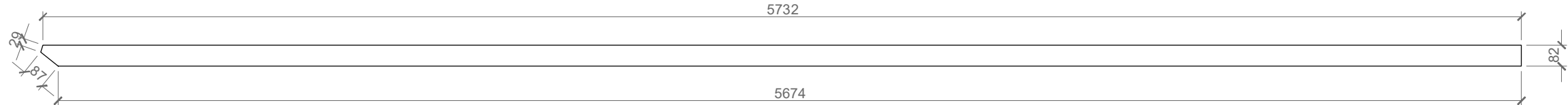
B-35



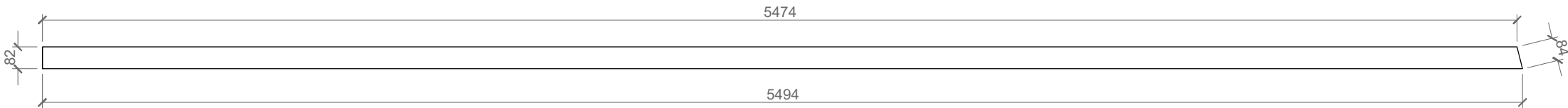
B-36



B-37a



B-37b



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

REV.	DATE	NOTE
A	2019 / 02 / 16	beam lenghts

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Beam Schedule

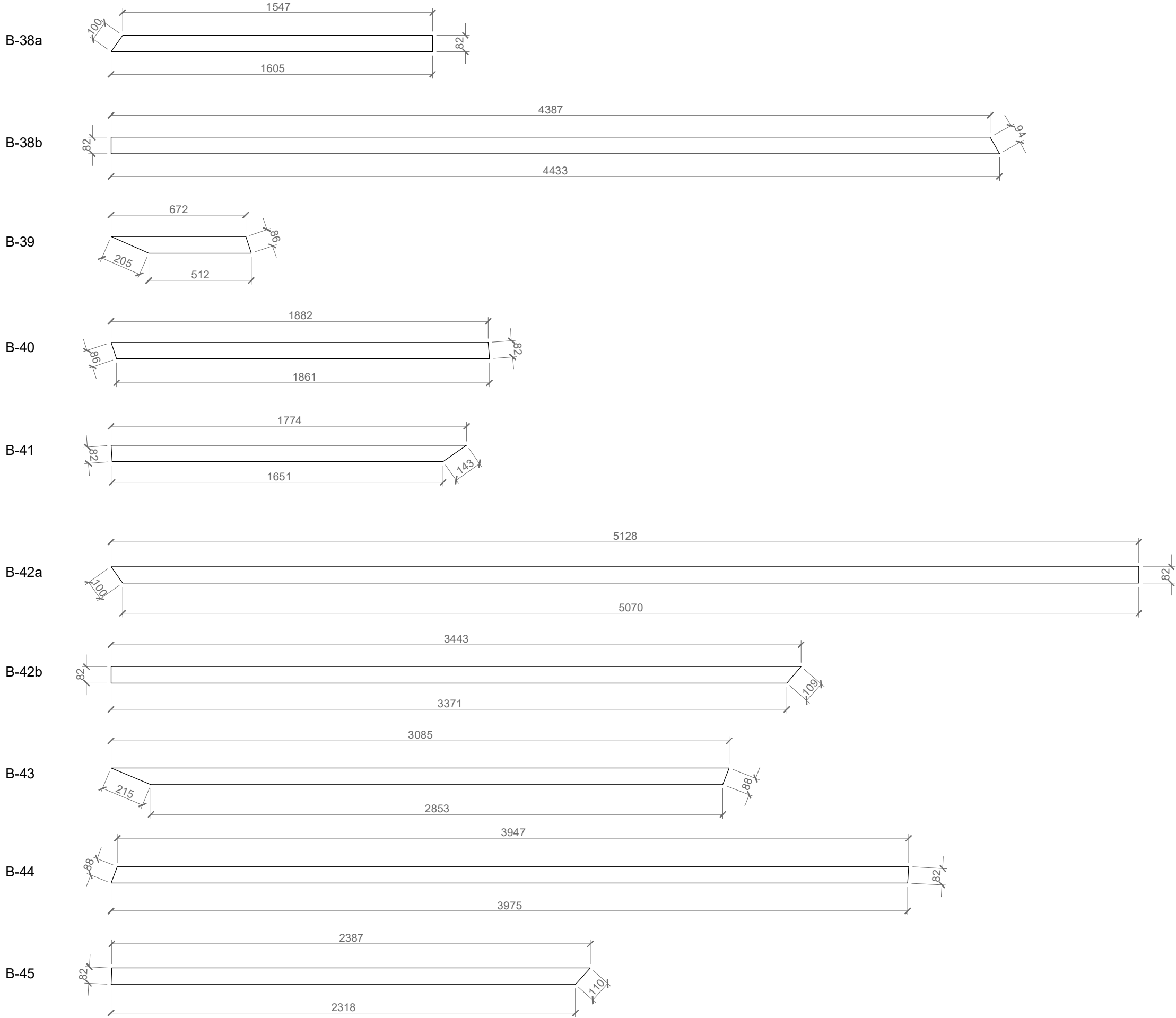
AUTHOR
Toms Kampars

SCALE
1:20
DATE
2019 / 02 / 07

REVISION
A

ARCHIVE TITLE
GM_A611_beam_schedule_5

ROOF-2
BEAM SCHEDULE 6
1:20



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

REV.	DATE	NOTE
A	2019 / 02 / 16	beam lenghts

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Beam Schedule

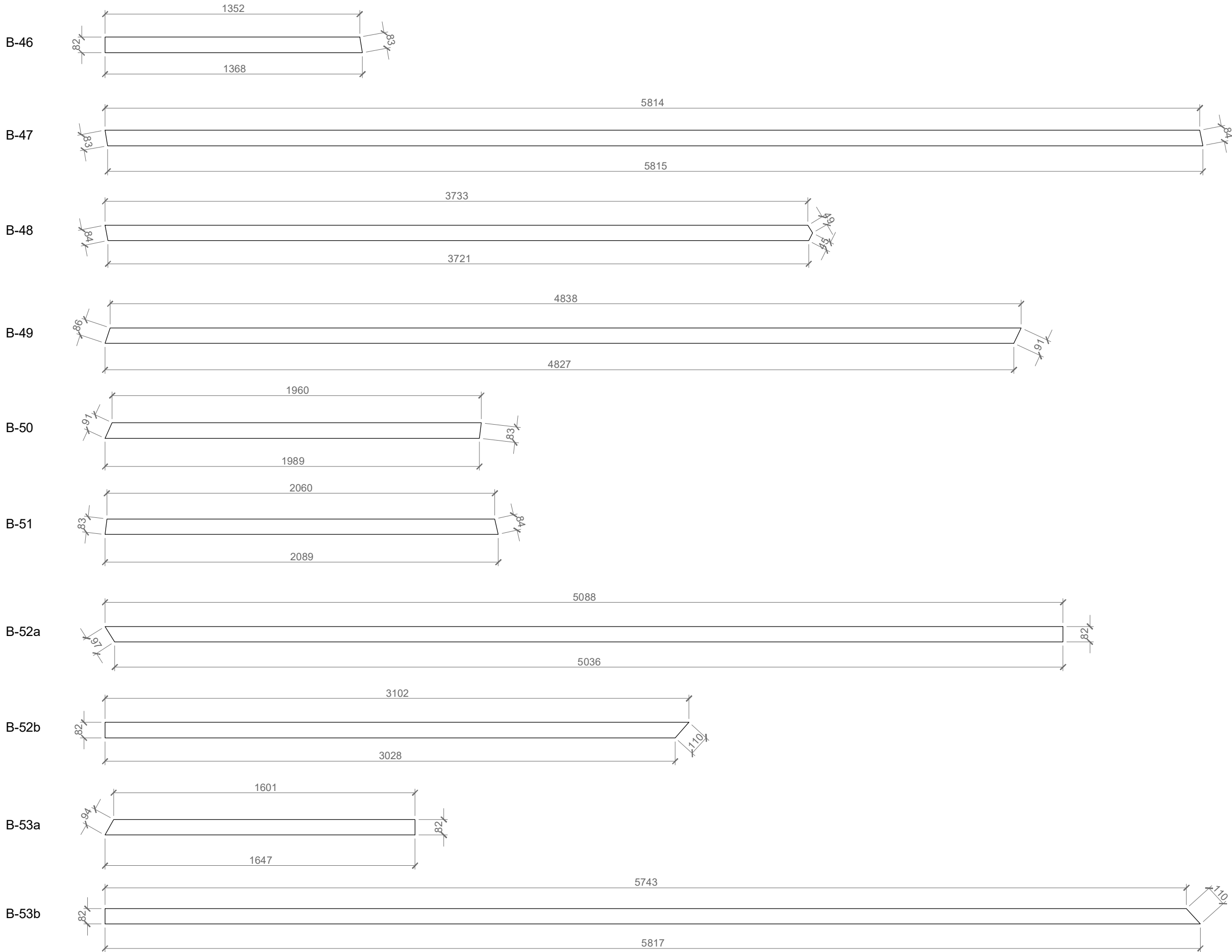
AUTHOR
Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 07

REVISION
A

ARCHIVE TITLE
GM_A611_beam_schedule_6

ROOF-2
BEAM SCHEDULE 7
1:20



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	beam lenghts

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT



Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT



[a]FA



IOA



di:angewandte

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -2
Beam Schedule

AUTHOR

Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 07

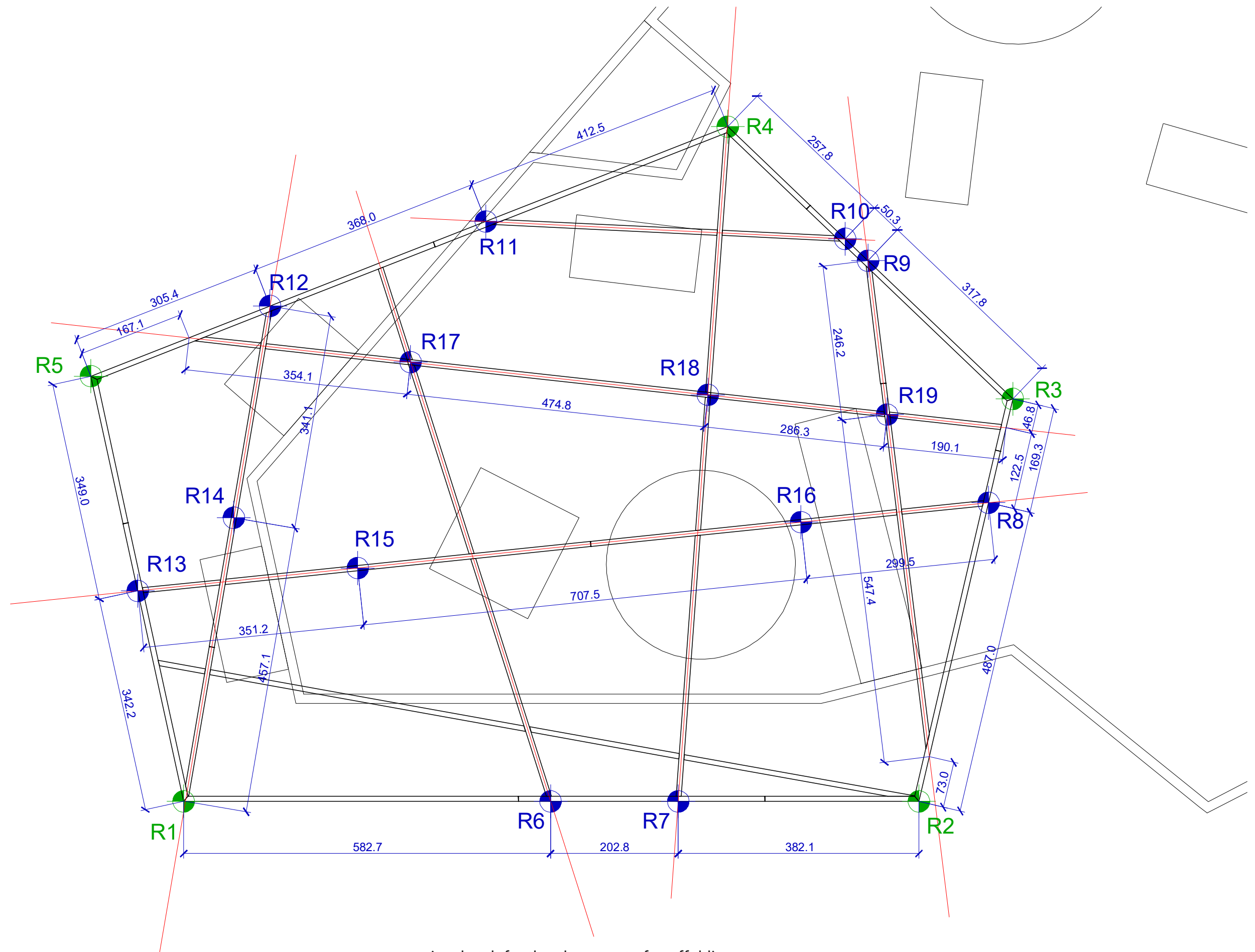
REVISION

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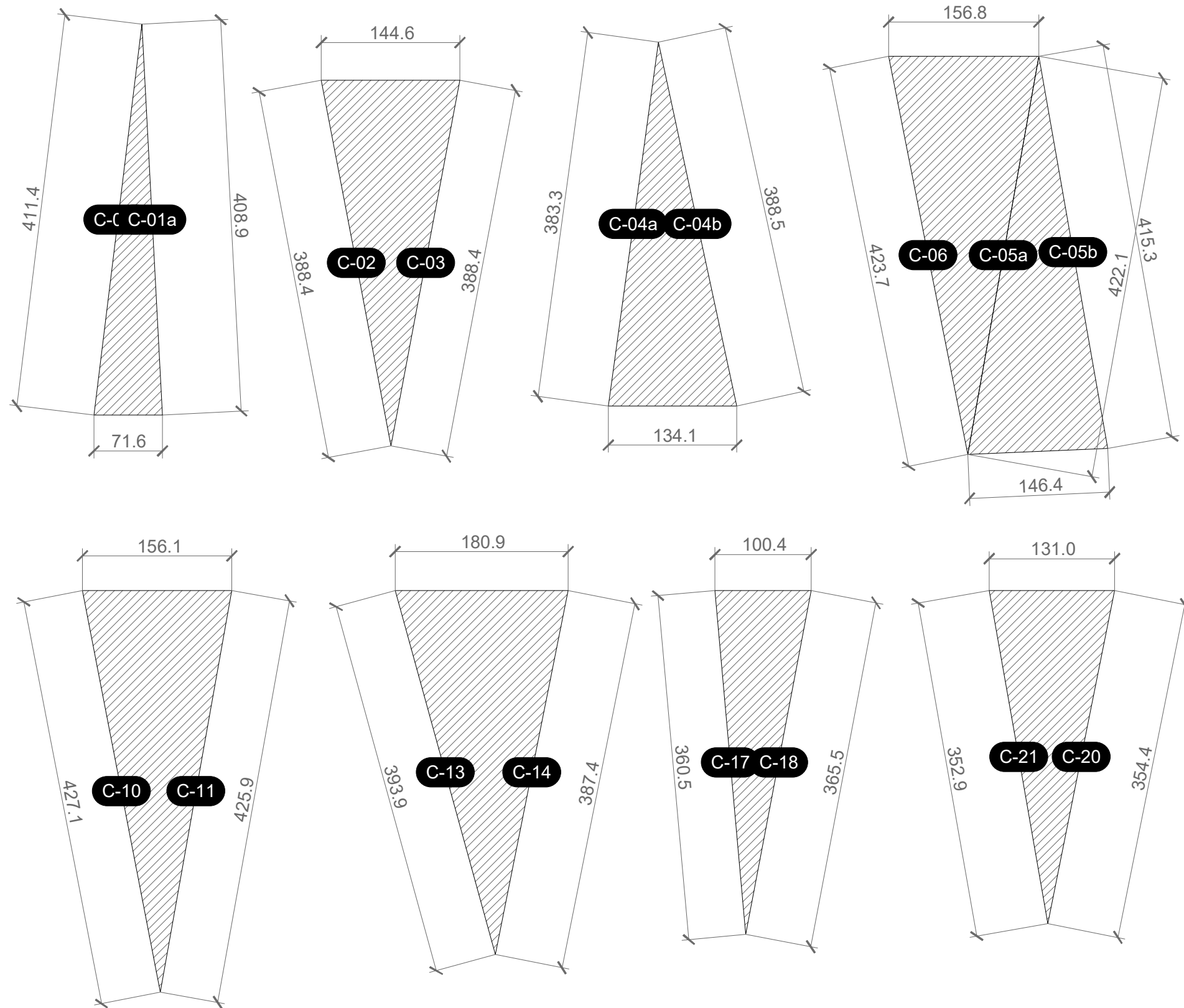
ARCHIVE TITLE

GM_A611_beam_schedule_7









on-site sketch for cross-checking the dimensions
of the column triangles



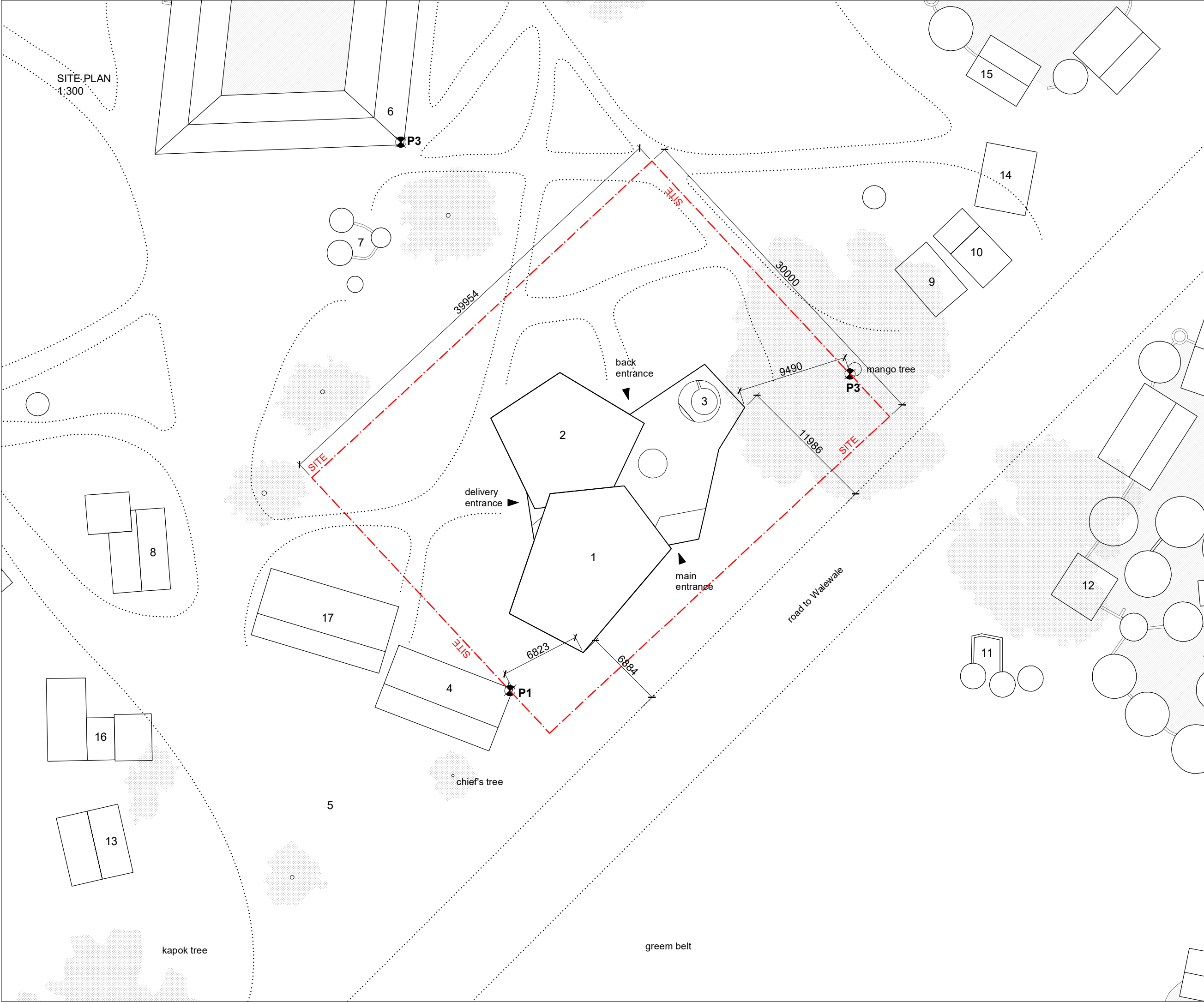








GUABULIGA MARKET
erection of the steel load-bearing structure Jan - May 2019



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Plan of surroundings might not fully represent the current status of site

P1, P2 - corner of existing buildings' wall (not the roof)
P3 - middle point on the trunk of mango tree

- 1 - market unit 1
- 2 - market unit 2
- 3 - standpipe area
- 4 - tailor's shop
- 5 - current market, village square
- 6 - family compound
- 7 - animal hut
- 8 - milling facility
- 9 - shop
- 10 - shop
- 11 - animal hut
- 12 - family compound
- 13 - waterboard centre
- 14 - pavilion
- 15 - family compound
- 16 - mechanics' workshop
- 17 - commercial space

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
  
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

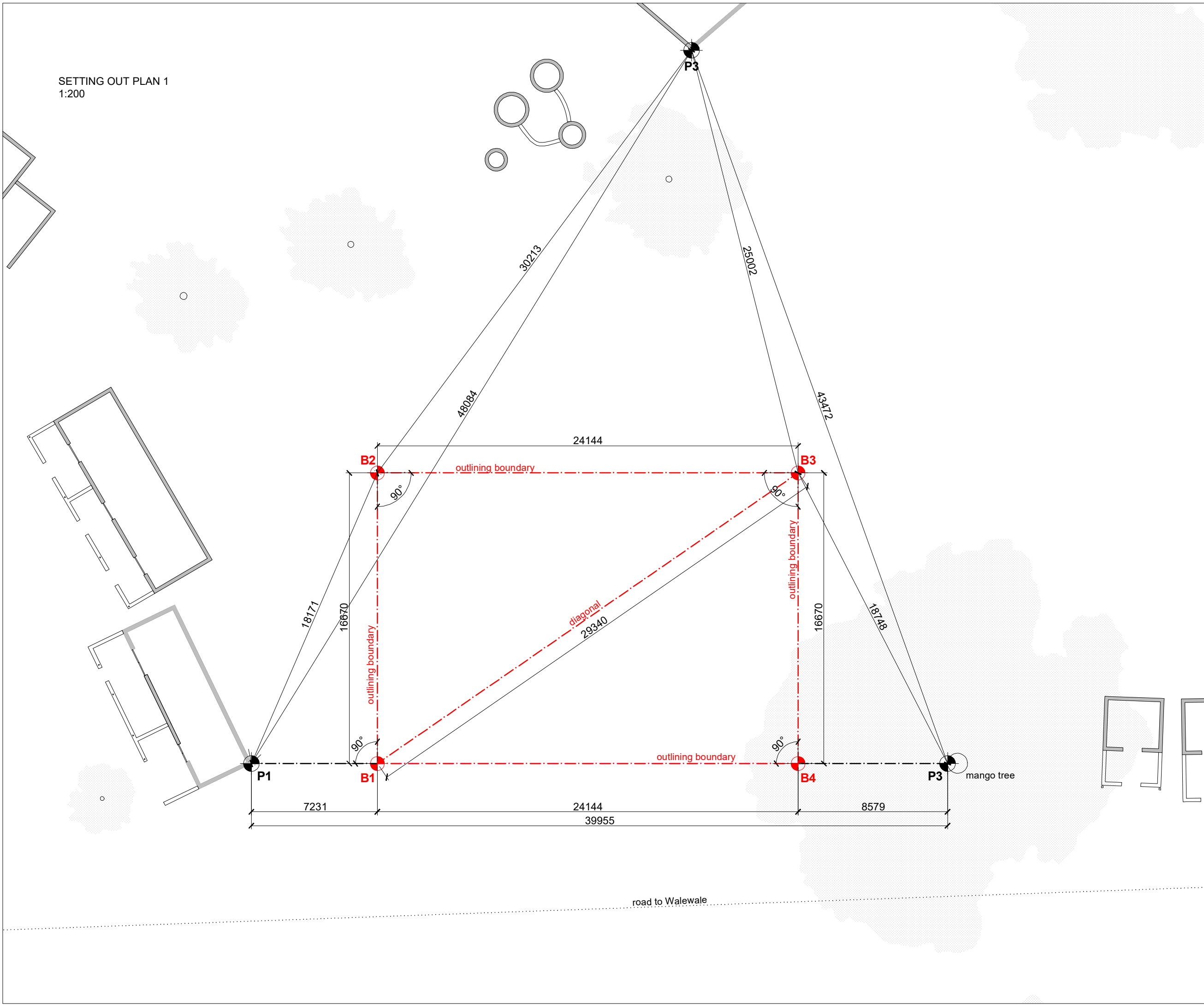
DRAWING
Site plan

AUTHOR
Toms Kampars

SCALE	DATE
1:300	2019 / 01 / 10

REVISION
-
ARCHIVE TITLE
GM_A102_site_plan

SETTING OUT PLAN 1
1:200



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Plan of surroundings might not fully represent the current status of site

P1, P2 - corner of existing buildings
P3 - middle point on the trunk of mango tree

Before setting out boundary box B1, B2, B3, B4 make sure it will not collide with the roots of mango tree

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Setting out plan 1

AUTHOR
Toms Kampars

SCALE	DATE
1:200	2019 / 01 / 10

REVISION
-

ARCHIVE TITLE
GM_A103_setting_out_plan_1

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height

First points to be set out are the ones intersecting with the boundary box (in the following order):
7, 6, 9, 1, 2, 3

Note and strongly follow the parallel and perpendicular sets of axis:

parallel sets of axis:

J to M
F to F'
K to B2-B3
K to B1-B4

perpendicular sets of axis:

- H to K
- A to N
- K to B1-B2
- K to B3-B4

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT



Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT



[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Setting out plan 2

AUTHOR

Toms Kampars

SCALE

1:100

DATE _____

2019 / 01 / 10

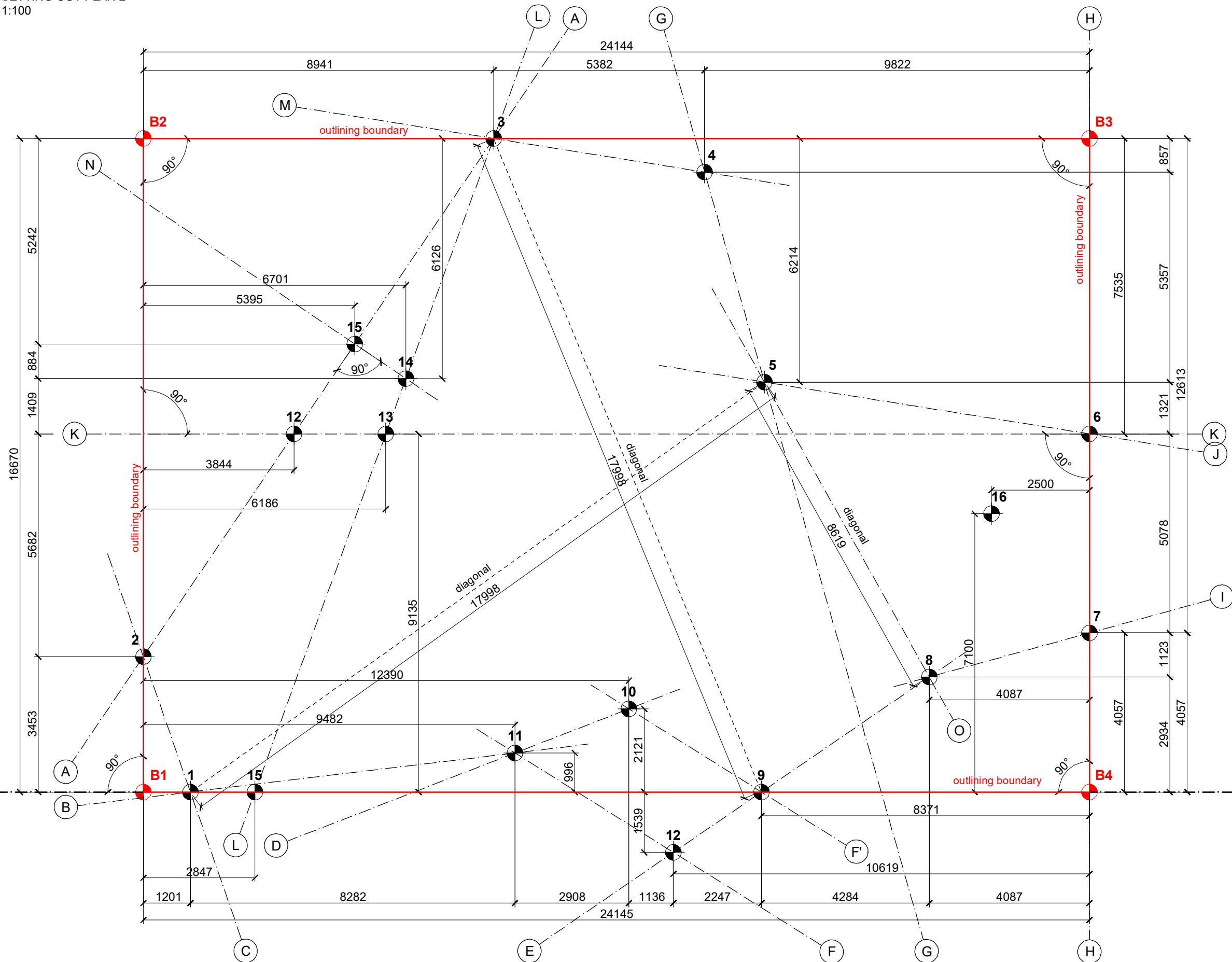
REVISION

ARCHIVE TITLE

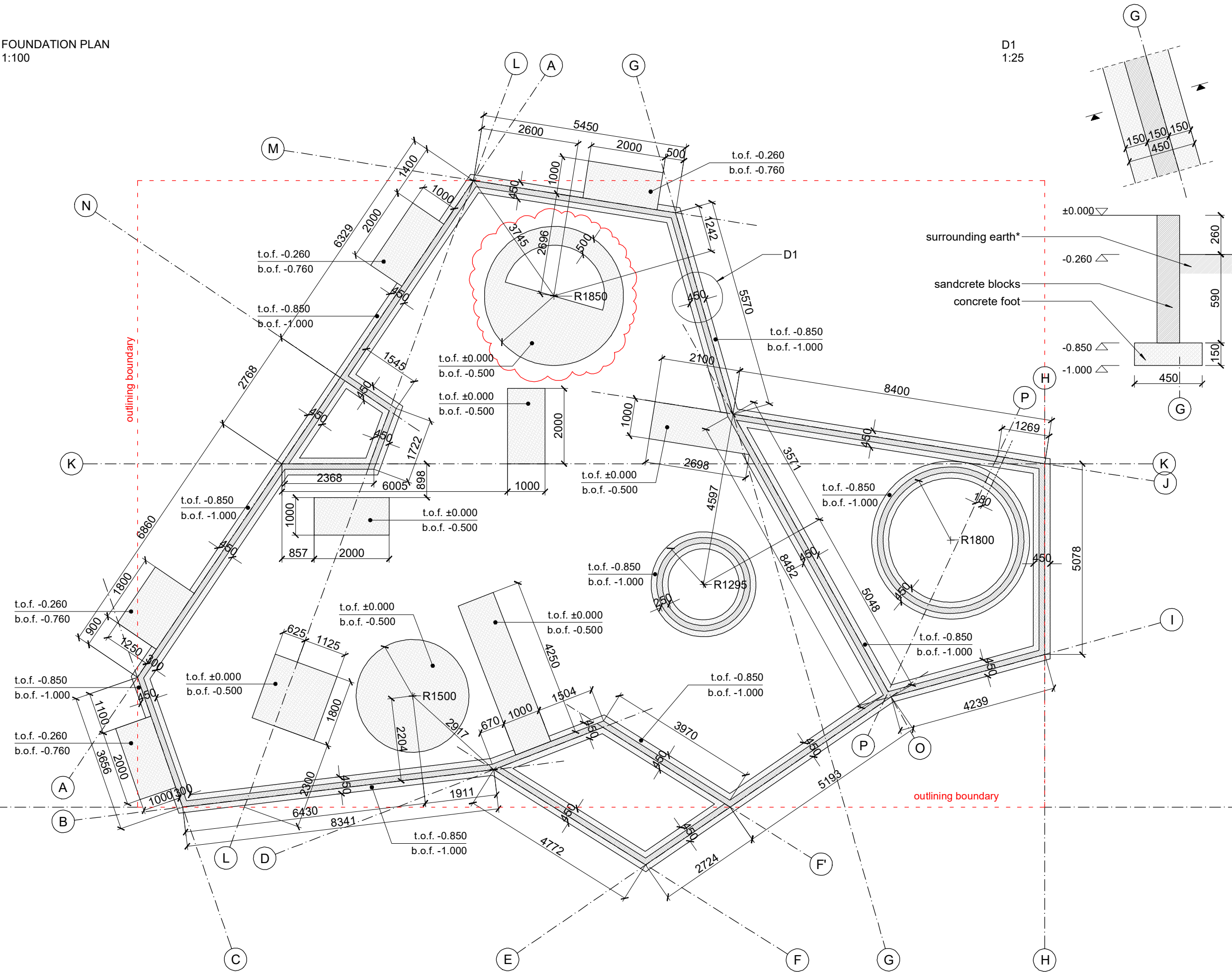
GM_A103_setting_out_plan_2

SETTING OUT PLAN 2

1:100



FOUNDATION PLAN
1:100



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Lenght given in millimeters, heights - in meters.

Top surface of the foundations is taken as a height ± 0.000 point

Further concrete floor layer on top - assumed 100 mm

Depending on the site conditions, the ± 0.000 point should not be higher than 260 mm above surrounding earth layer

*Difference between top of foundations to surrounding earth level may vary but should not exceed 260 mm (height of final floorplate 360 mm)

REV.	DATE	NOTE
A	2019 / 01 / 10	foundation depths
B	2019 / 01 / 27	foundation geometry
C	2019 / 02 / 07	foundation geometry

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Foundation plan

AUTHOR
Toms Kampars

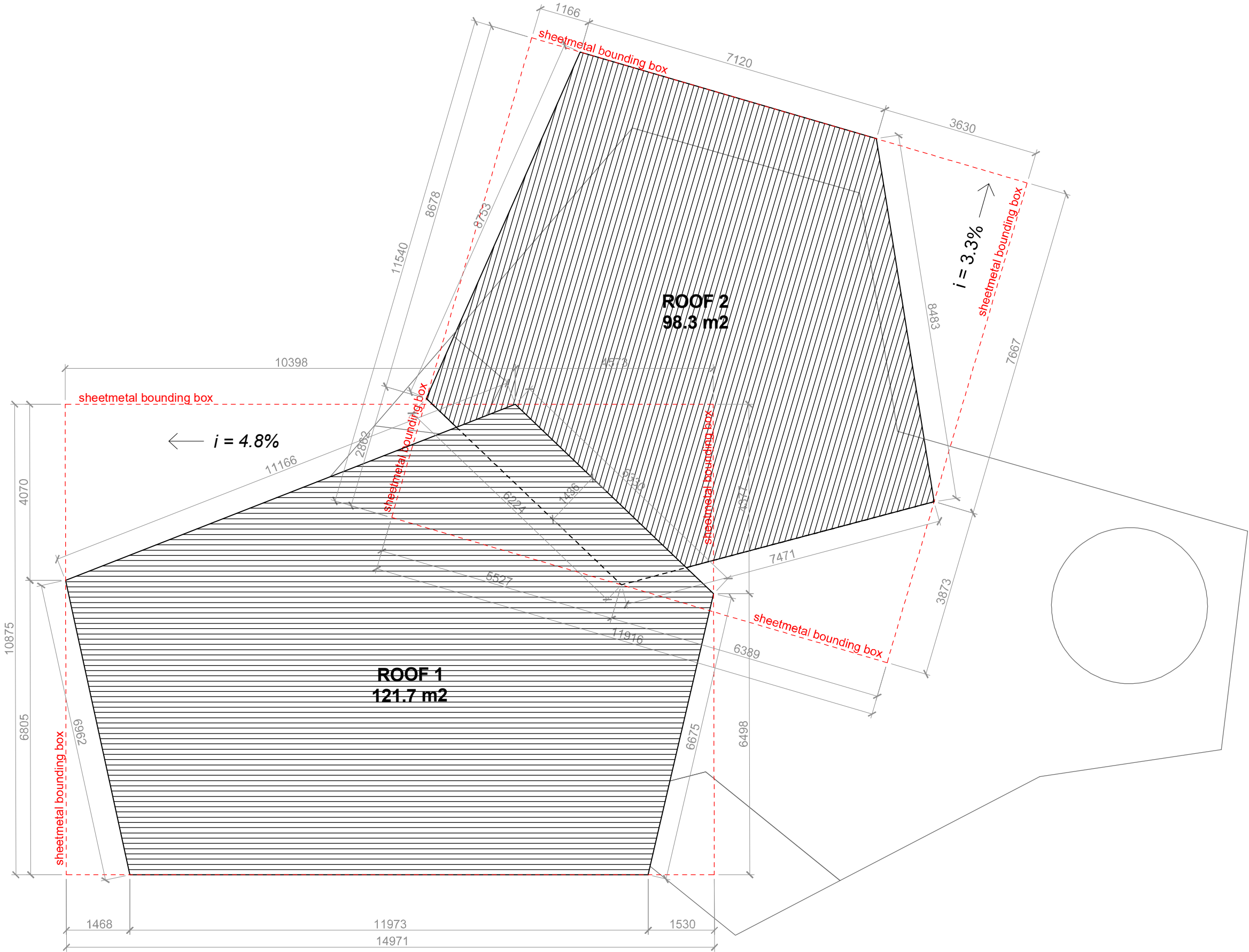
SCALE
1:100

DATE
2019 / 01 / 10

REVISION

C
ARCHIVE TITLE
GM_A104_foundation_plan





NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

LEGEND

 sheetmetal cover
(lines indicate direction)

Sheetmetal total area:
220.0 m2

REV.	DATE	NOTE
A	2019 / 02 / 13	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

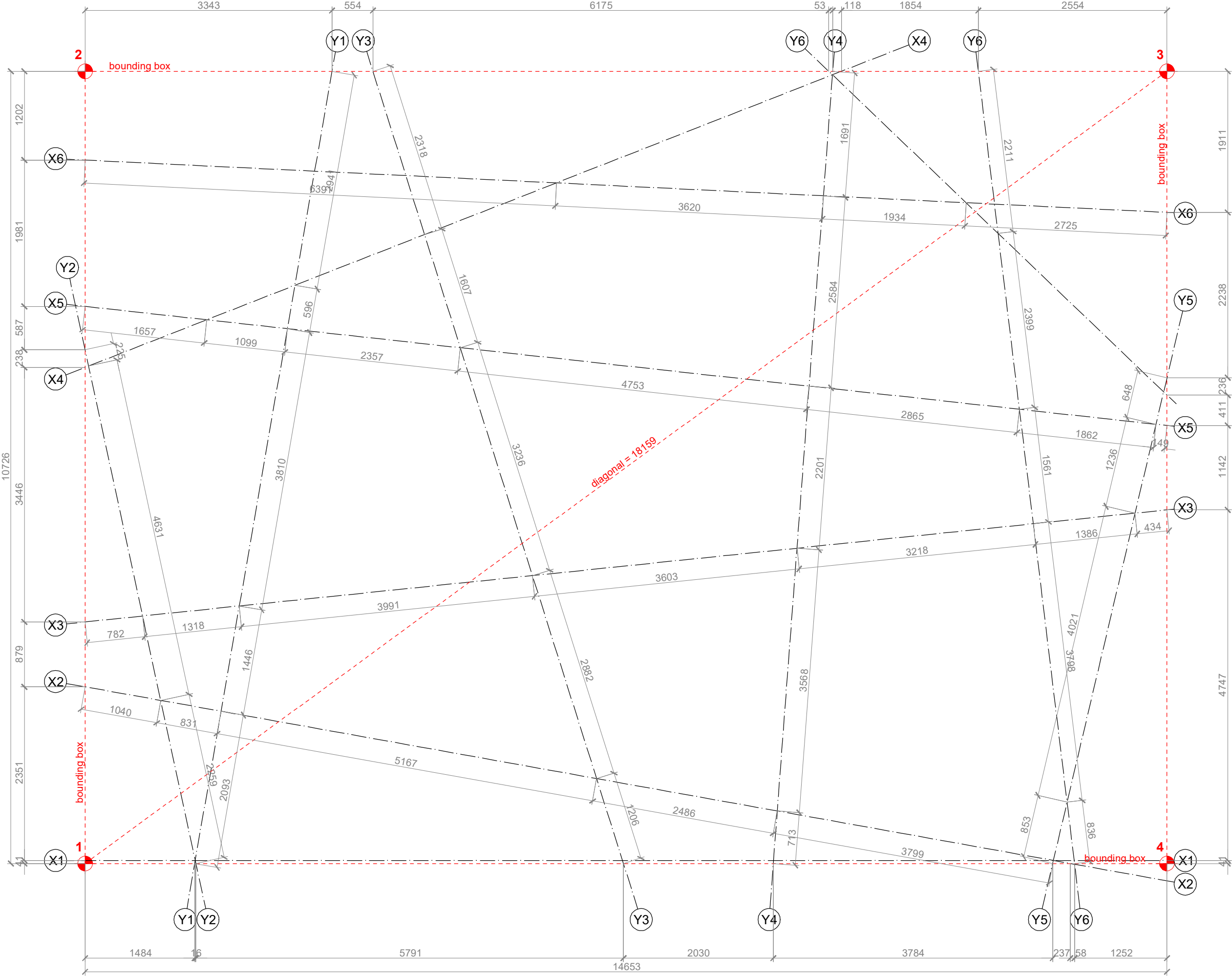
AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof Plan

AUTHOR Magdalena Gorecka Toms Kampars	
SCALE 1:100	DATE 2019 / 02 / 13
REVISION -	
ARCHIVE TITLE GM_A106_roof_plan	

ROOF-1 STRUCTURE AXIS PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Axis Plan

AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 16

REVISION
-

ARCHIVE TITLE
GM_A421_roof1_structure_axis_plan

A3



All units in Metric system
Units in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

Roof -2 Structure Axis Plan

Toms Kampars

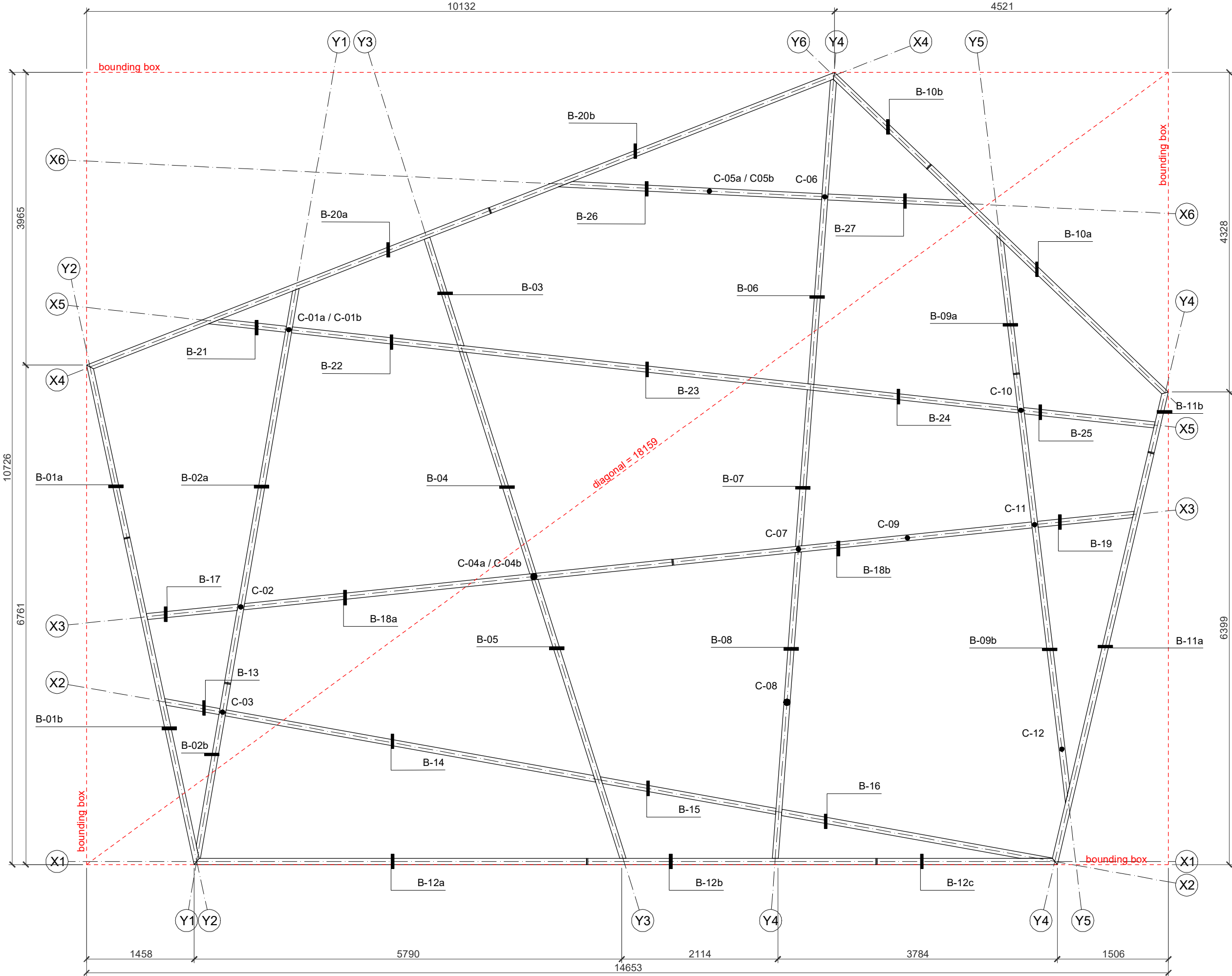
DATE _____

2019 / 02 / 16

GM_A421_roof2_structure_axis_plan



ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

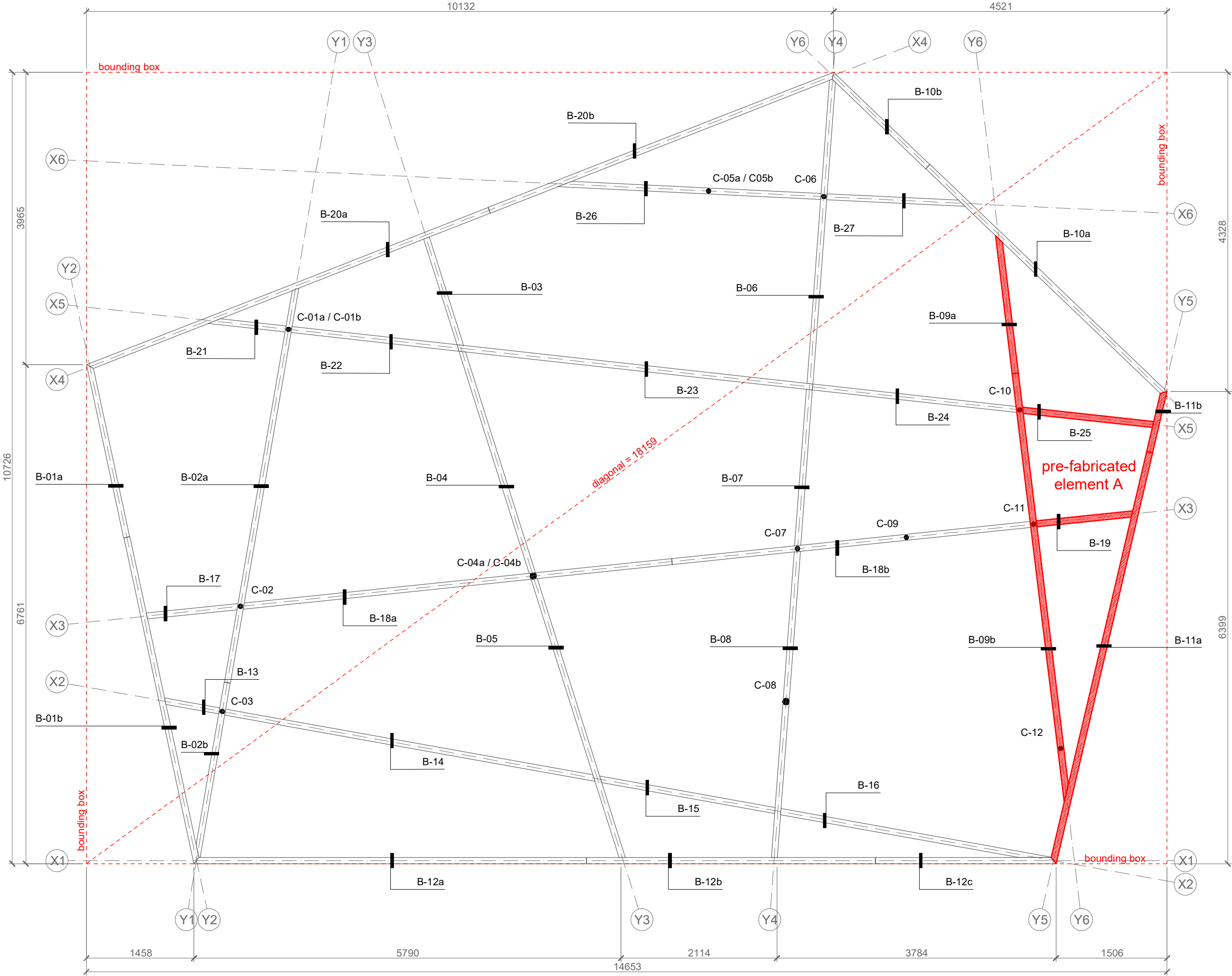
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 04

REVISION

A
ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

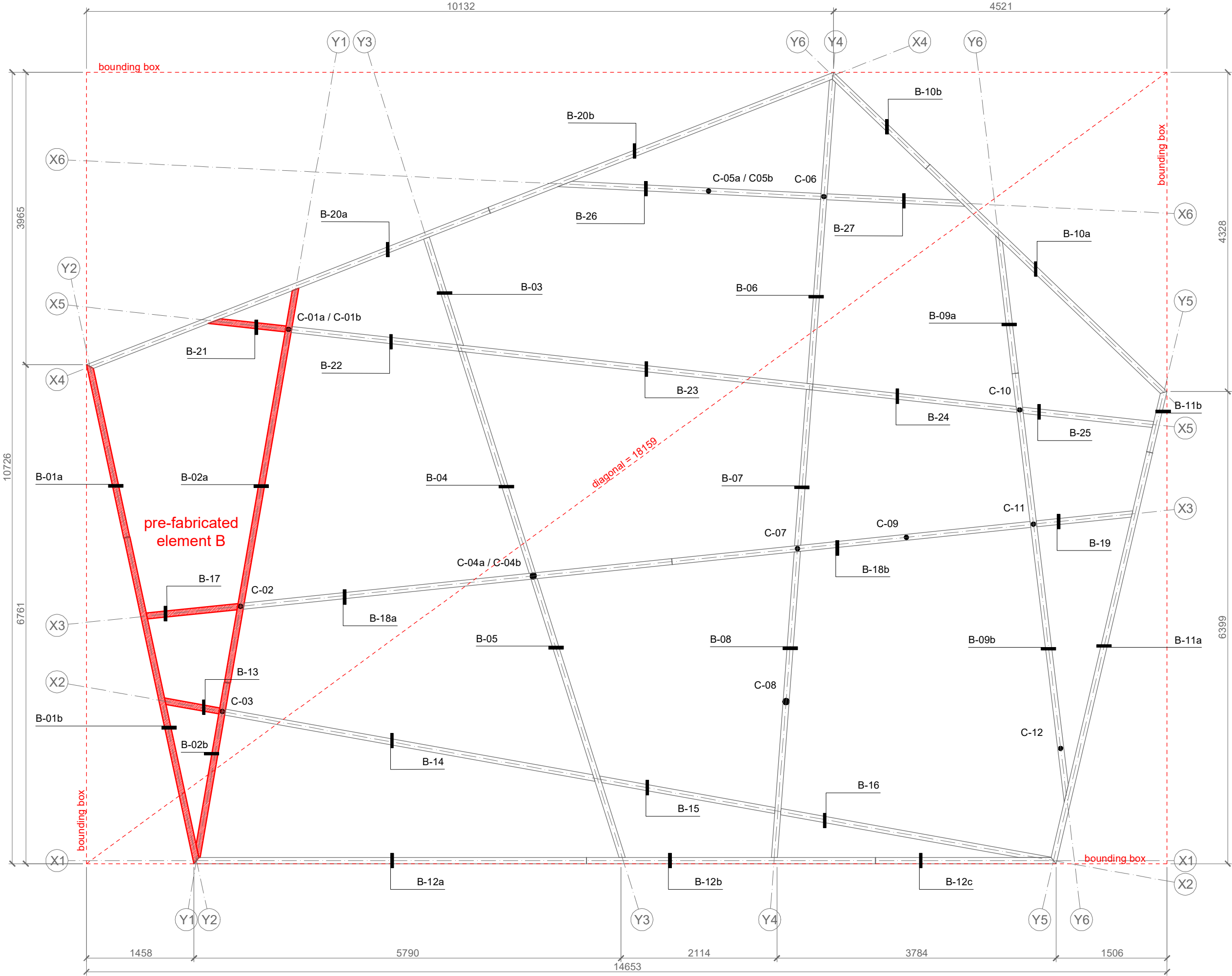
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 04

REVISION

A
ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

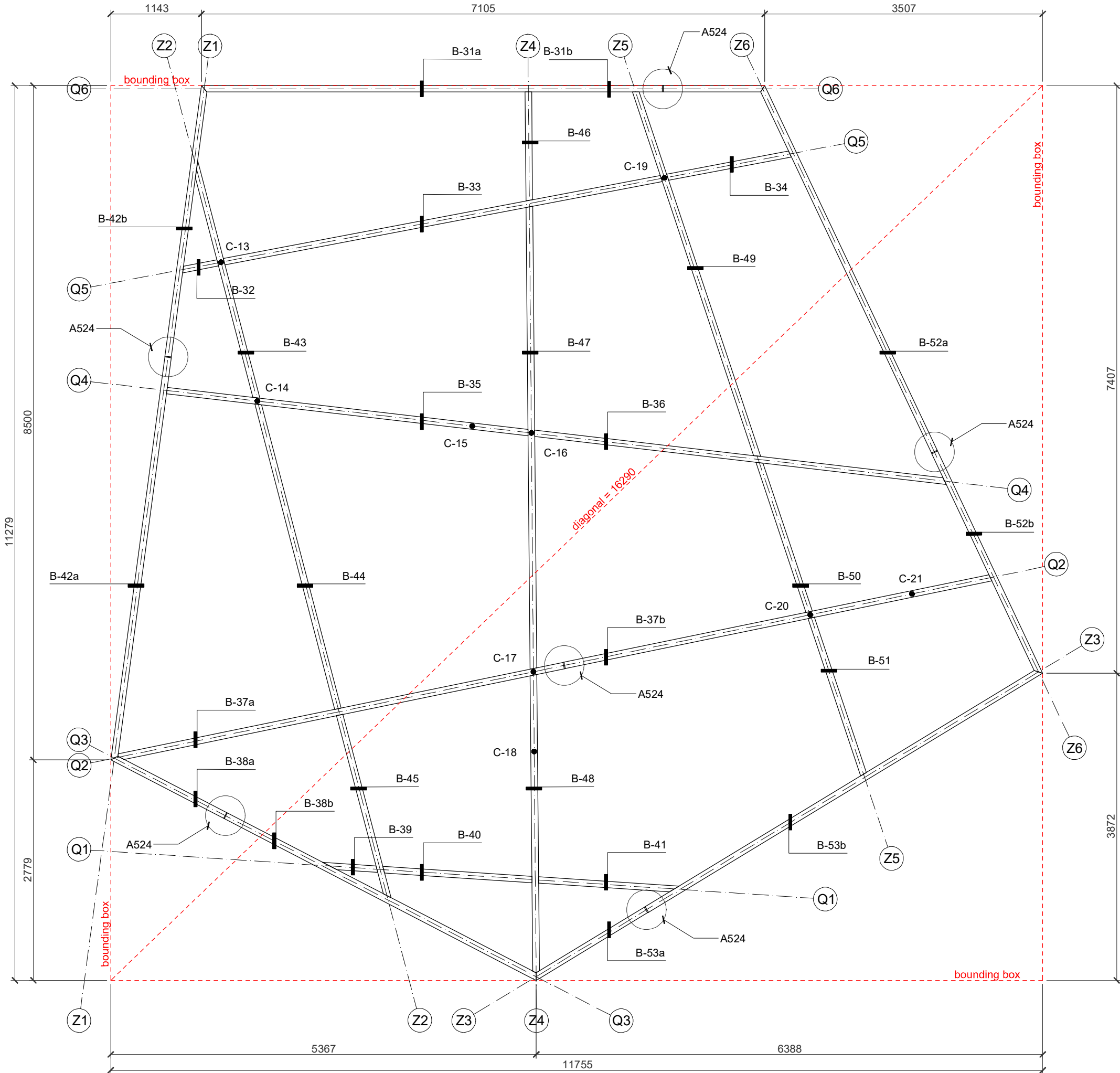
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 04

REVISION

A
ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

ROOF-2 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Structure Fabrication Plan

AUTHOR
Toms Kampars

SCALE 1:50	DATE 2019 / 02 / 07
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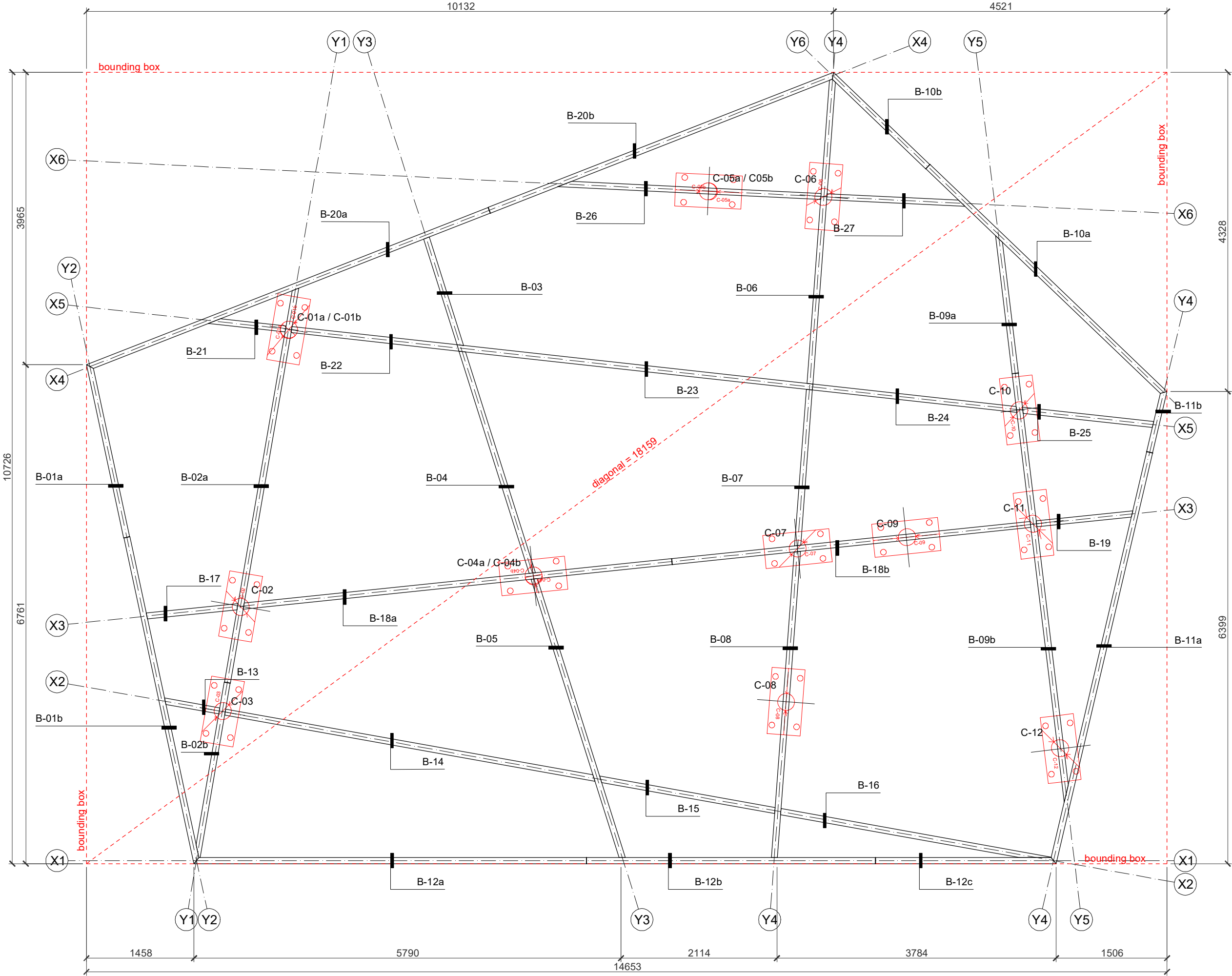
REVISION

ARCHIVE TITLE
GM_A422_roof2_structure_plan









NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

PLATE DIMENSIONS:
length: 300 mm
width: 150 mm
thickness: 9 mm
12 plates connected to beams in total

REV.	DATE	NOTE
A	190503	updating plate directions
B	190503	plate template added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Position of steel plates

AUTHOR
Toms Kampars
Magdalena Gorecka

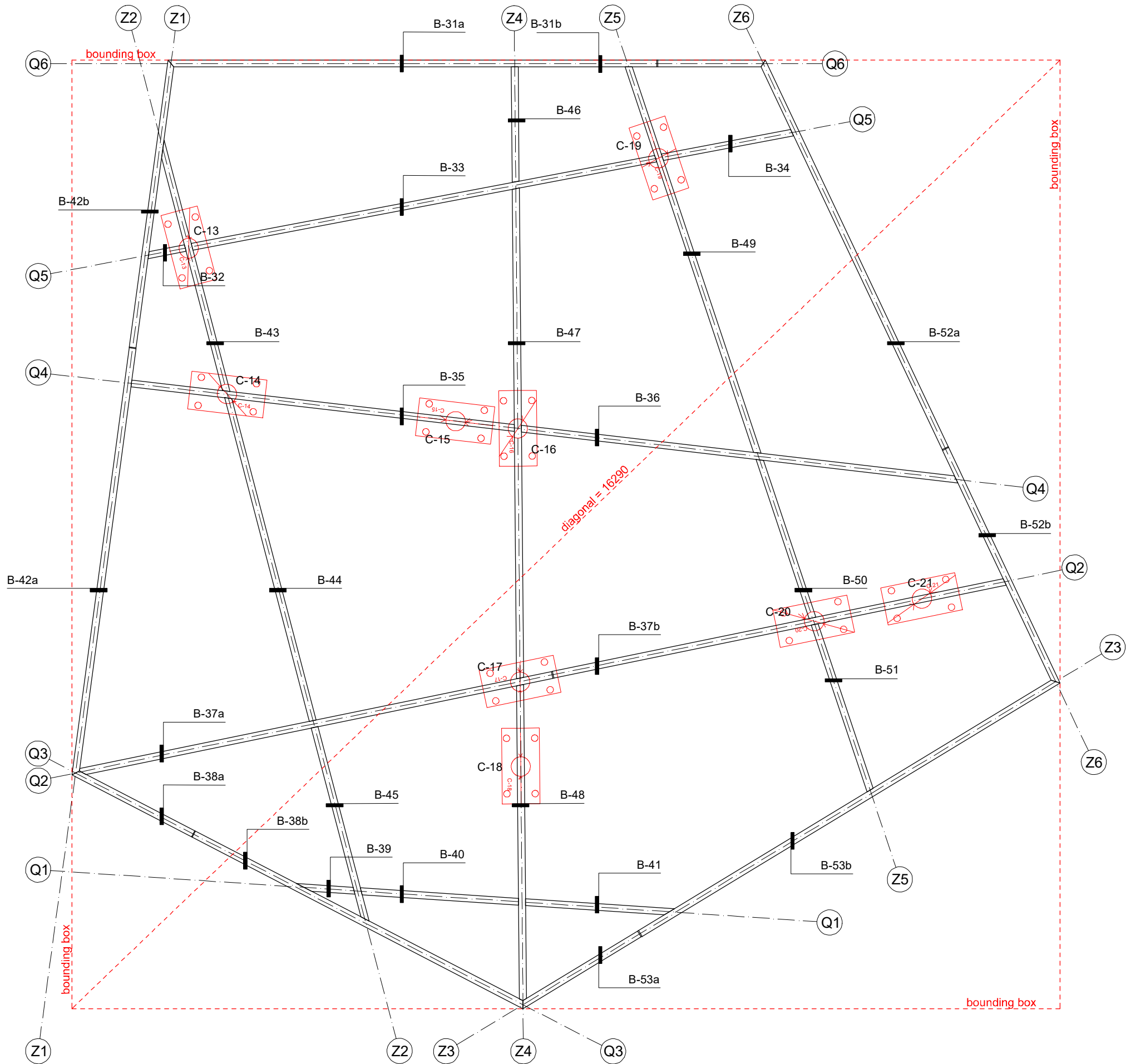
SCALE
1:50

DATE
2019 / 02 / 04

REVISION

B
ARCHIVE TITLE
GM_A423_roof1_structure_plates_plan

ROOF-2 STRUCTURE PLATES PLAN
1:50



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

PLATE DIMENSIONS:
length: 300 mm
width: 150 mm
thickness: 6 mm
9 plates connected to beams in total

REV.	DATE	NOTE
A	190503	updating plate directions
B	190503	plate template added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Structure Plates Plan

AUTHOR
Toms Kampars

SCALE
1:50

DATE
2019 / 02 / 07

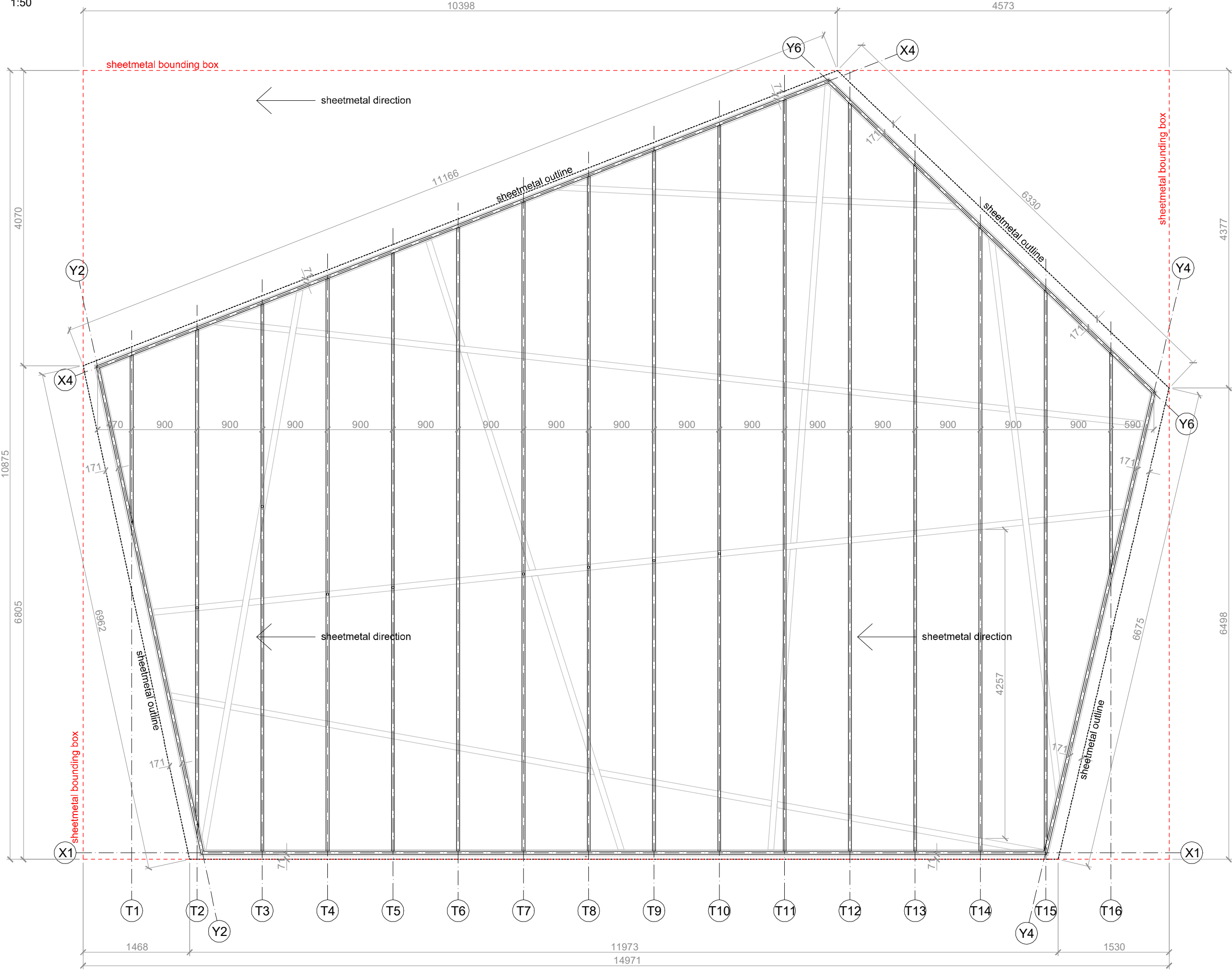
REVISION
B

ARCHIVE TITLE
GM_A423_roof2_structure_plates_plan





ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

LEGEND

- IPE160 structural I-beams
- sheetmetal substructure (steel profile to be confirmed)

Sheetmetal total area:
121,7 m2

REV.	DATE	NOTE
A	2019 / 02 / 13	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 08

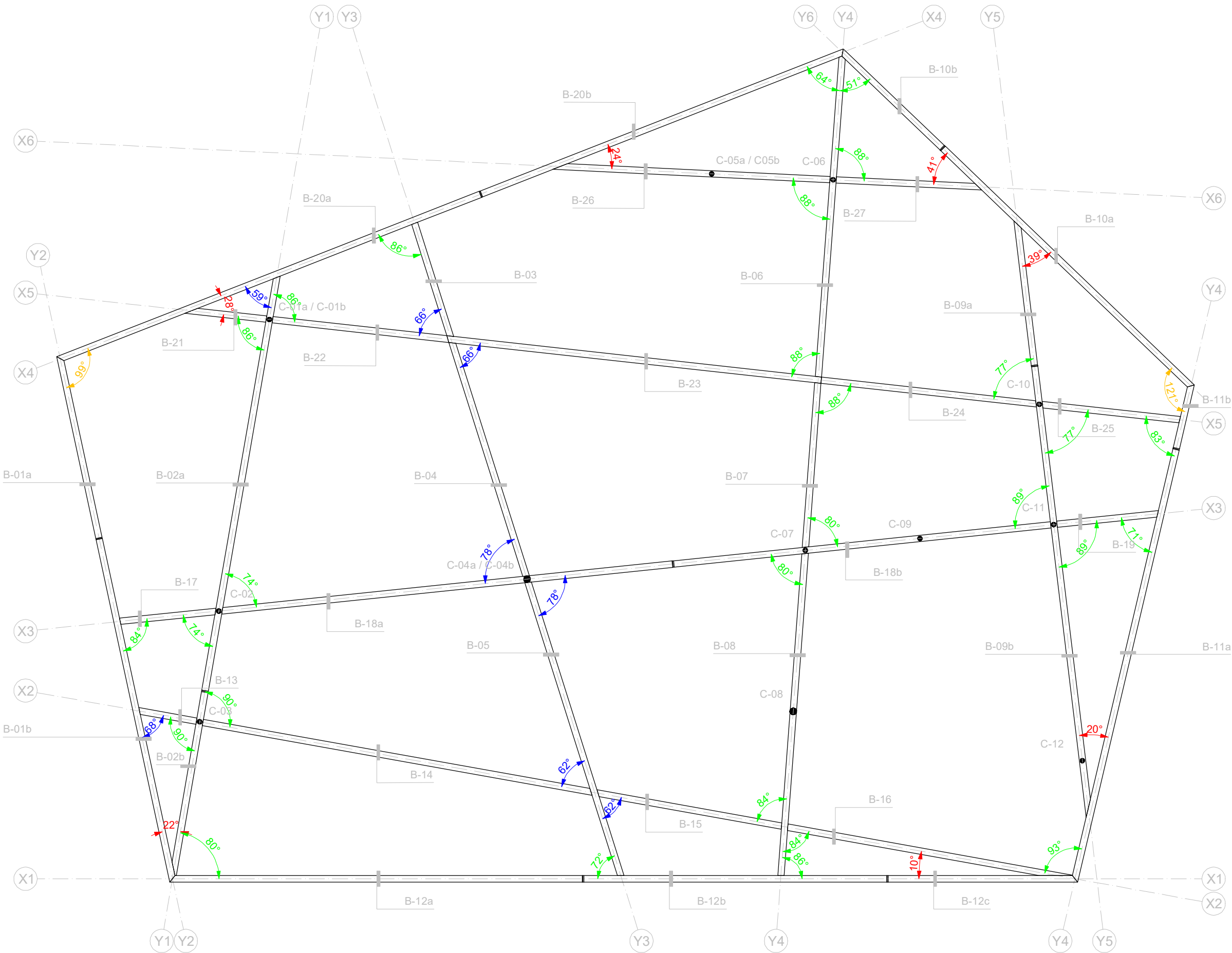
REVISION
A
ARCHIVE TITLE
GM_A424_roof1_structure_fabrication_plan

A3



REVISION	
A	
ARCHIVE TITLE	
GM_A424_roof2_structure_fabrication_plan	

GM_A424_roof2_structure_fabrication_plan



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Toms Kampars

SCALE 1:50	DATE 2019 / 01 / 26
---------------	------------------------

REVISION
-

ARCHIVE TITLE
GM_A422_roof1_structure_plan



All units in Metric system
Units in millimeters
For any changes or modifications consult
the author!
All dimensions to be compared to on-site
situation

ARCHIVE TITLE
GM_A425_roof2_angle_plan

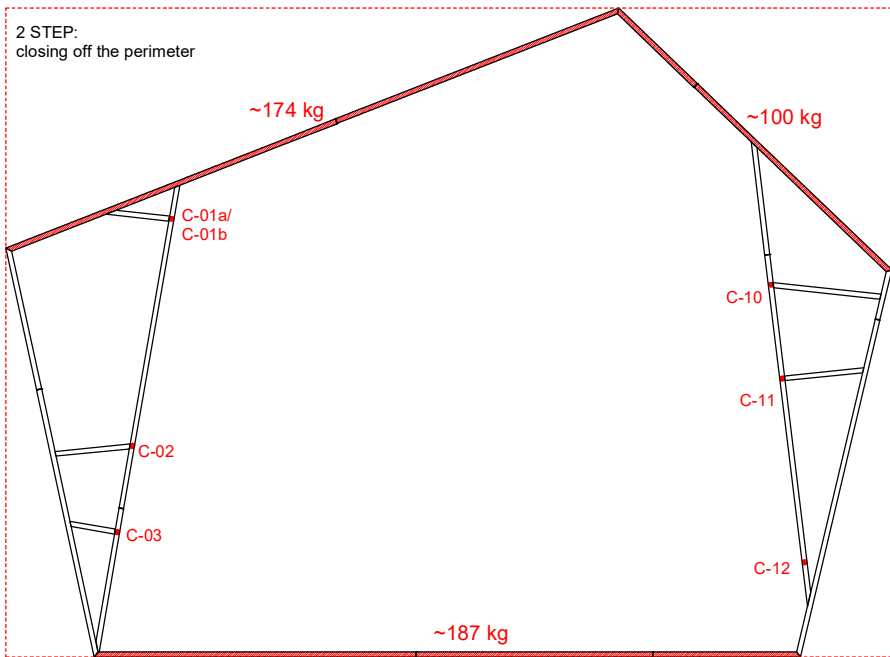




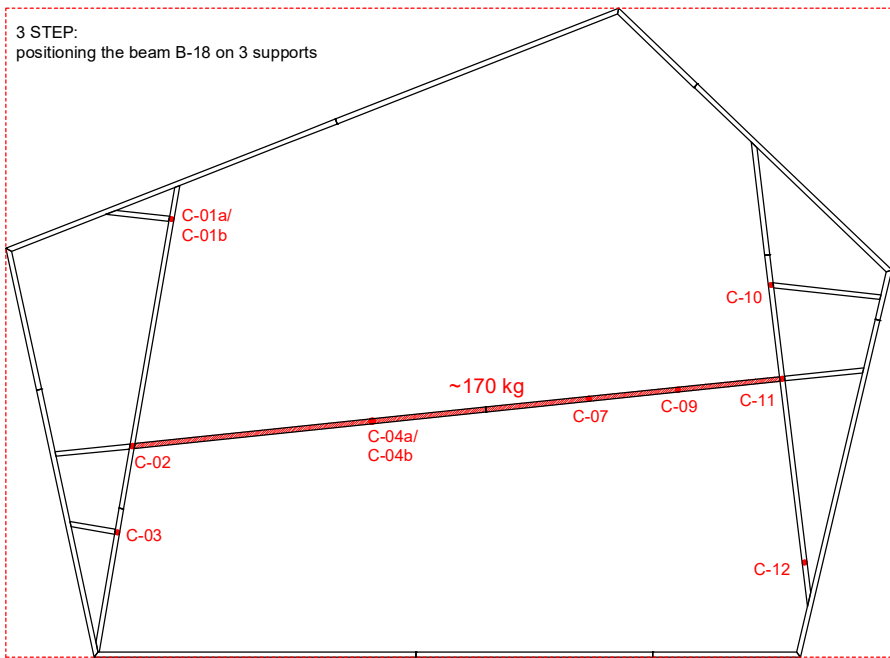
1 STEP:
positioning the two pre-fabricated triangles each on 3 supports



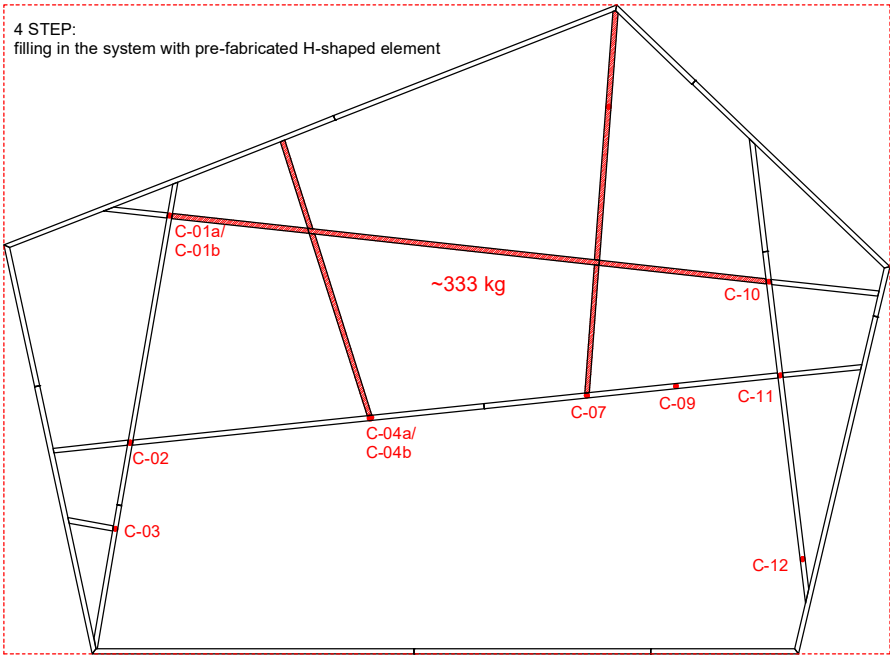
2 STEP:
closing off the perimeter



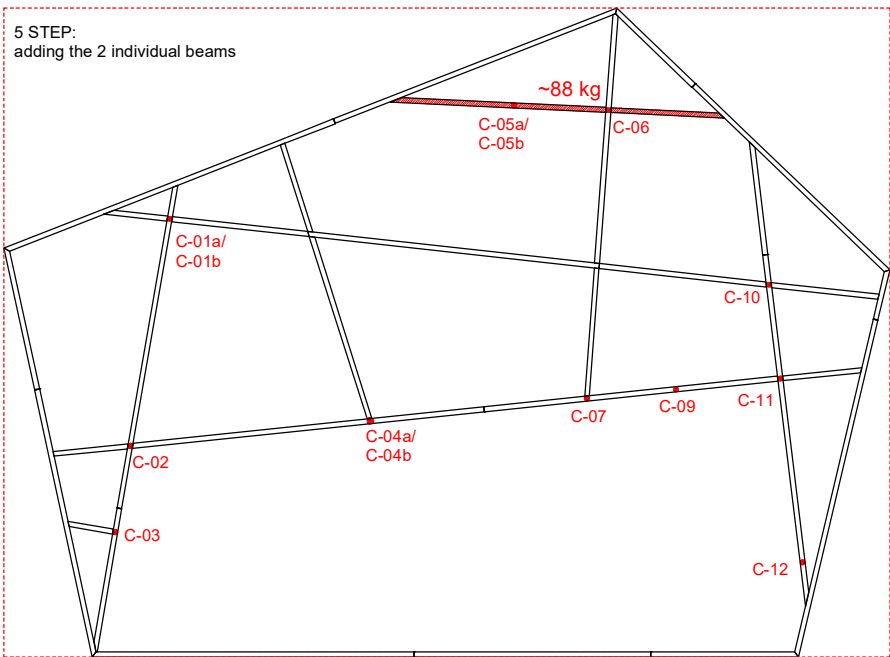
3 STEP:
positioning the beam B-18 on 3 supports



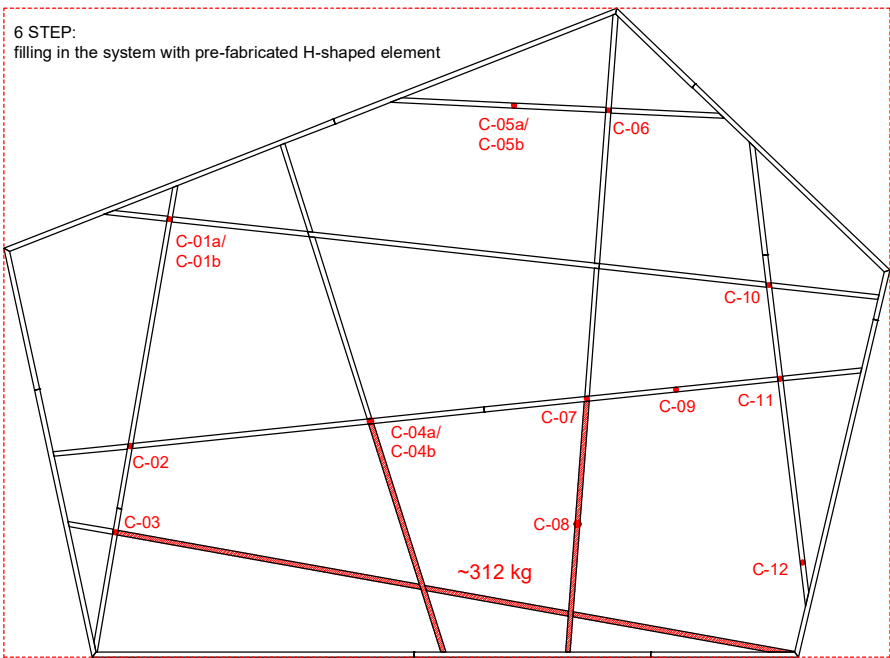
4 STEP:
filling in the system with pre-fabricated H-shaped element



5 STEP:
adding the 2 individual beams



6 STEP:
filling in the system with pre-fabricated H-shaped element



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
 
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof-1 Structure
Fabrication Sequence

AUTHOR
Toms Kampars

SCALE
1:125

DATE
2019 / 04 / 24

REVISION
-

ARCHIVE TITLE
GM_A426_roof1_fabrication_sequence_plan



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

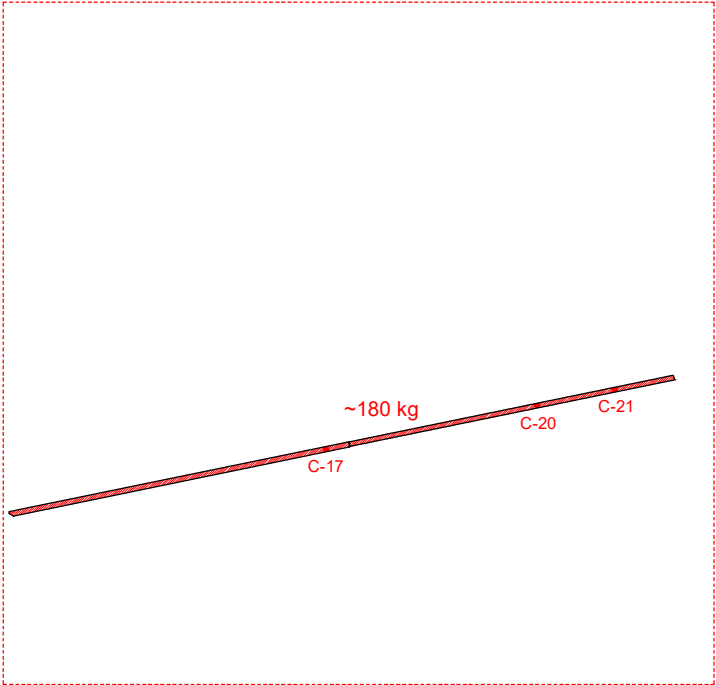
DRAWING
Roof -2 Structure
Fabrication Sequence

AUTHOR
Toms Kampars

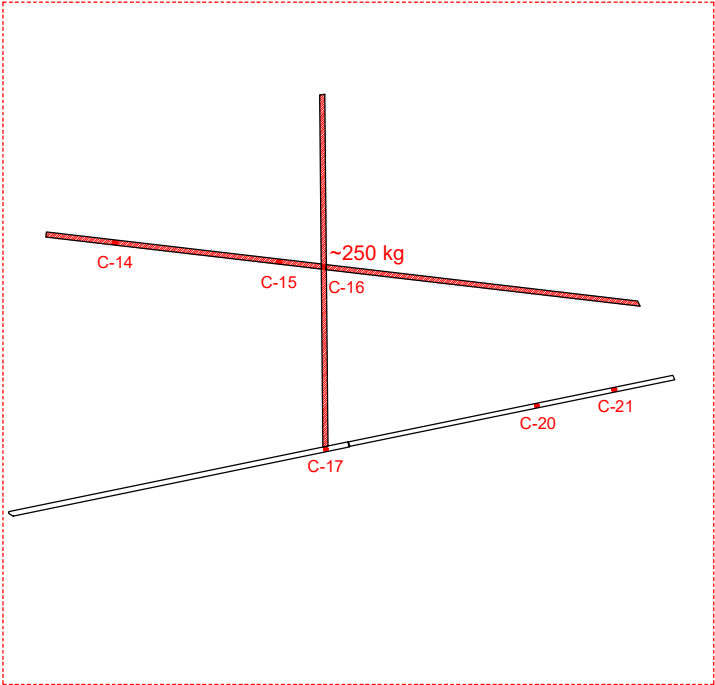
SCALE	DATE
1:125	2019 / 04 / 24

REVISION
-

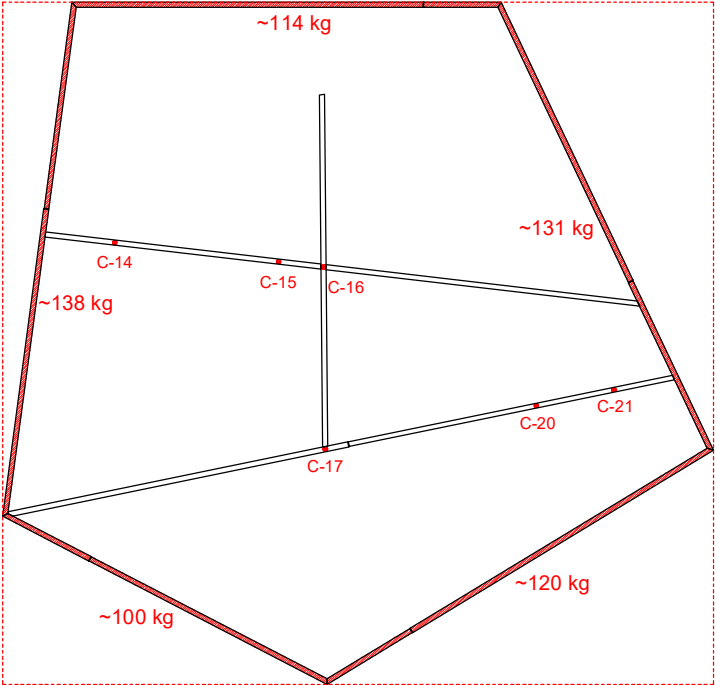
ARCHIVE TITLE
GM_A426_roof2_fabrication_sequence_plan



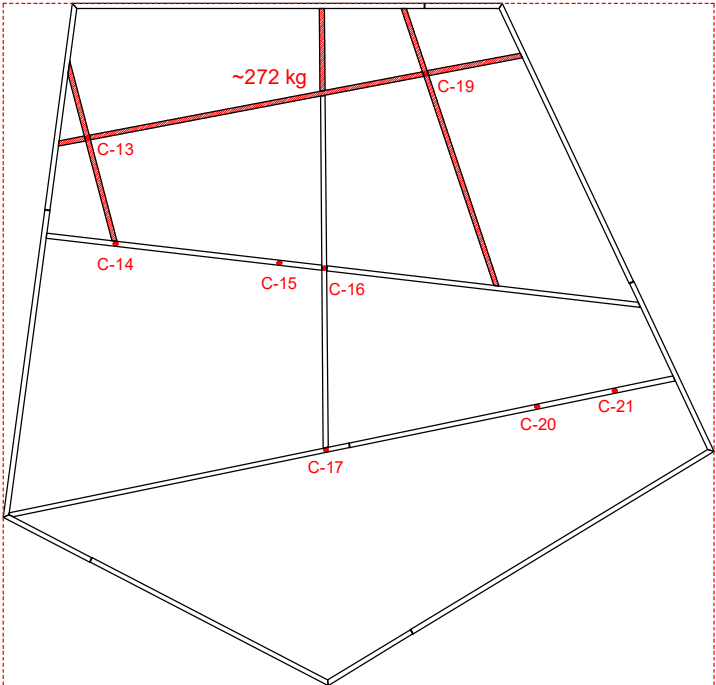
1 STEP:
positioning of longest and most supported beam B-37 on 3 supports C-17, C-20 and C-21



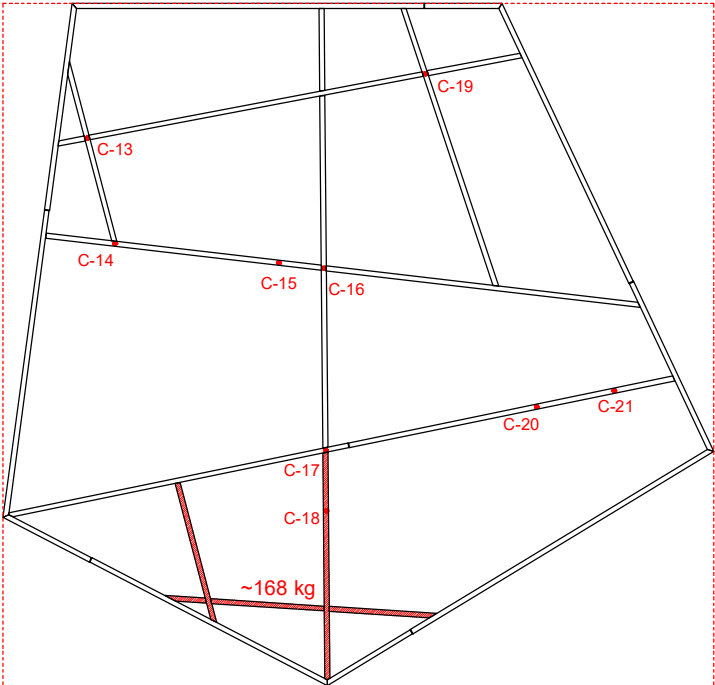
2 STEP:
positioning of well supported pre-fabricated cross element on 3 supports C-14, C-15 and C-16



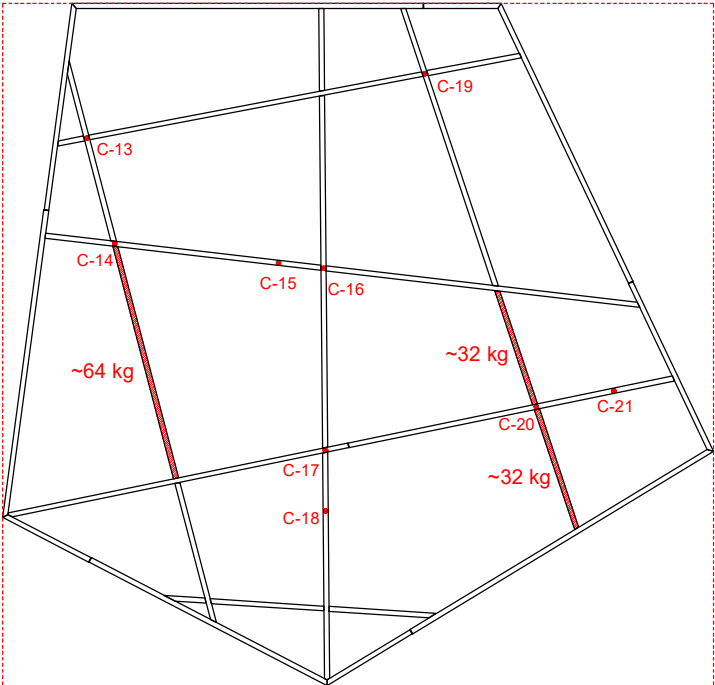
3 STEP:
closing the perimeter with all 5 perimeter beams



4 STEP:
filling in the system with prefabricated element positioned on supports C-13 and C-19



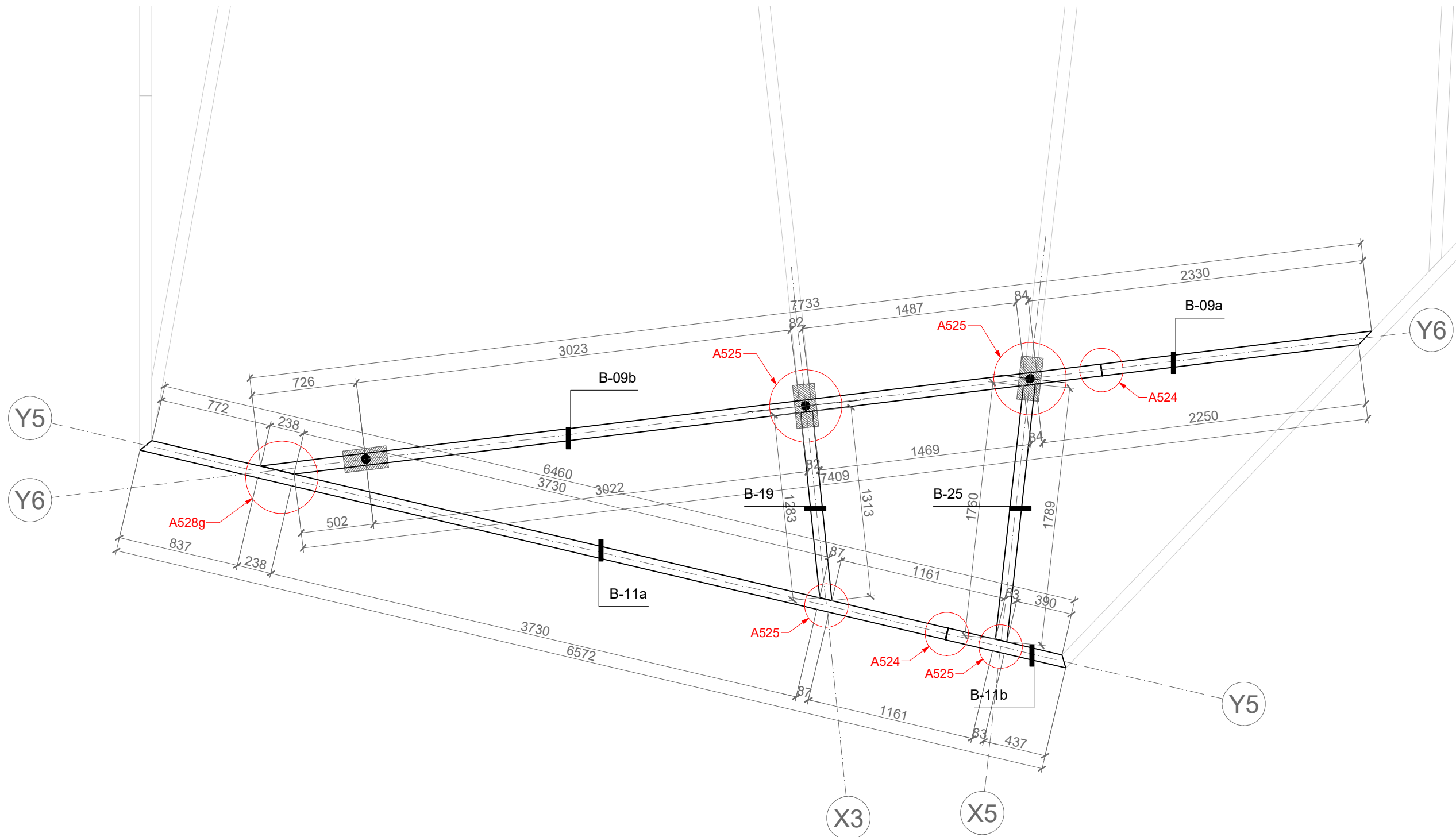
5 STEP:
filling in the system with prefabricated element positioned on support C-18



6 STEP:
filling in the system with left-over beams that have no direct support underneath them



Roof -1
Pre-fabricated element A



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-	-	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT



Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT



[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -1
Pre-fabricated element A

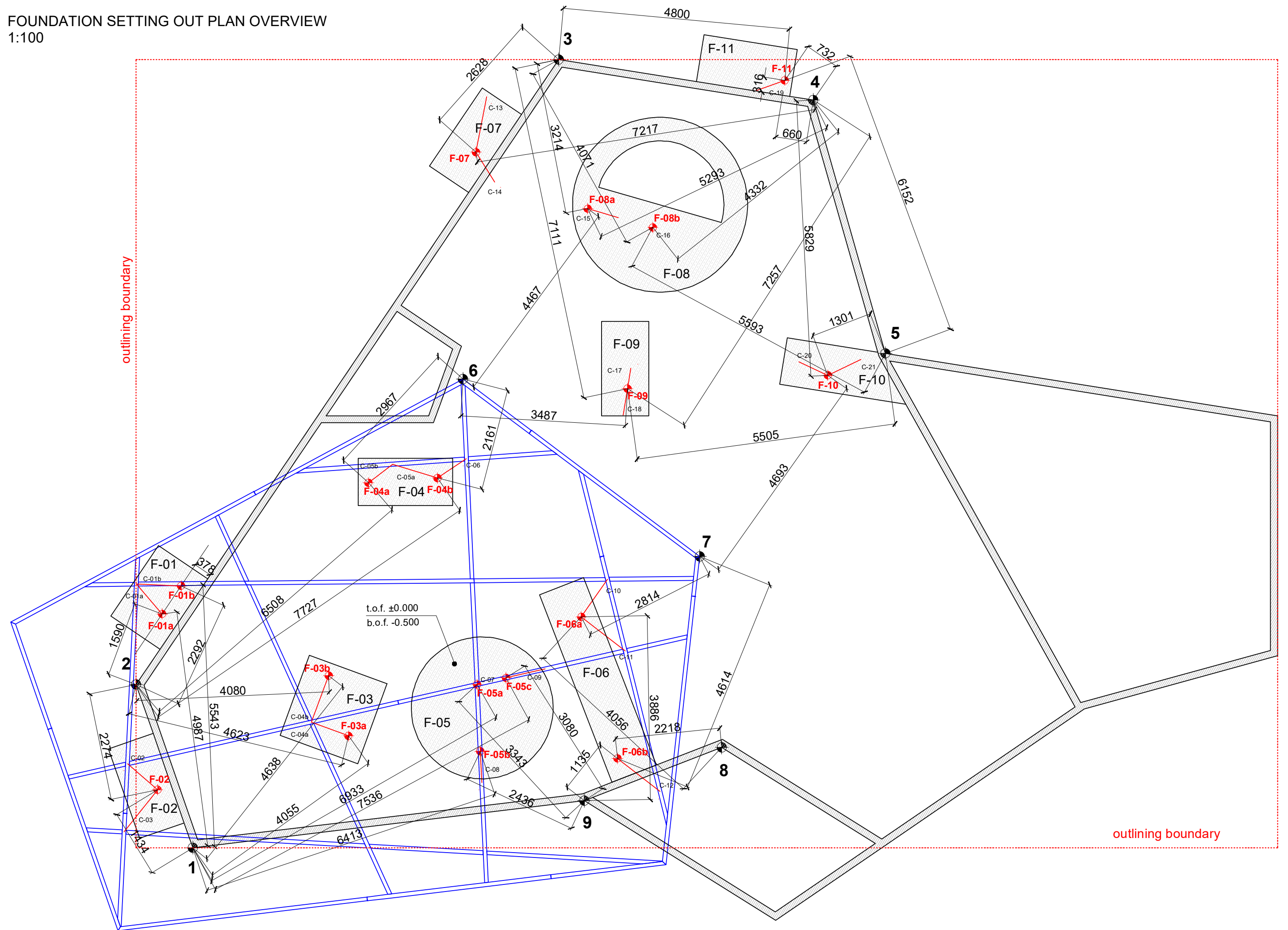
AUTHOR
Toms Kampars

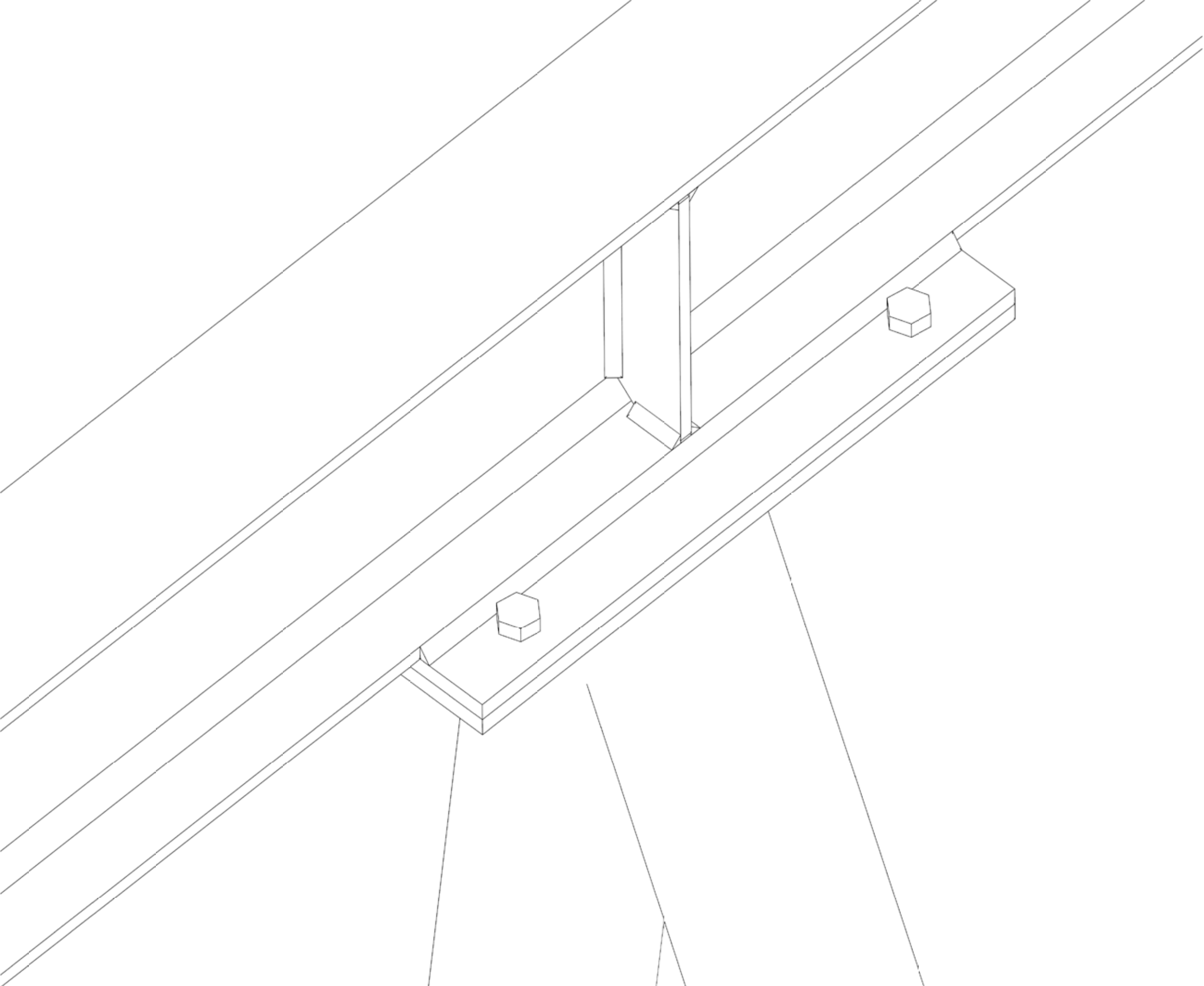
SCALE	DATE
1:30	2019 / 02 / 18

REVISION

-
ARCHIVE TITLE
GM_A431_roof1_pre-fabricated_element_A

1:100





NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each connection -

2 x 300x150 mm connection plates
6 mm thick

2 x 37x142 mm stiffener plates
6 mm thick

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT


Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

 
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Beam to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 08

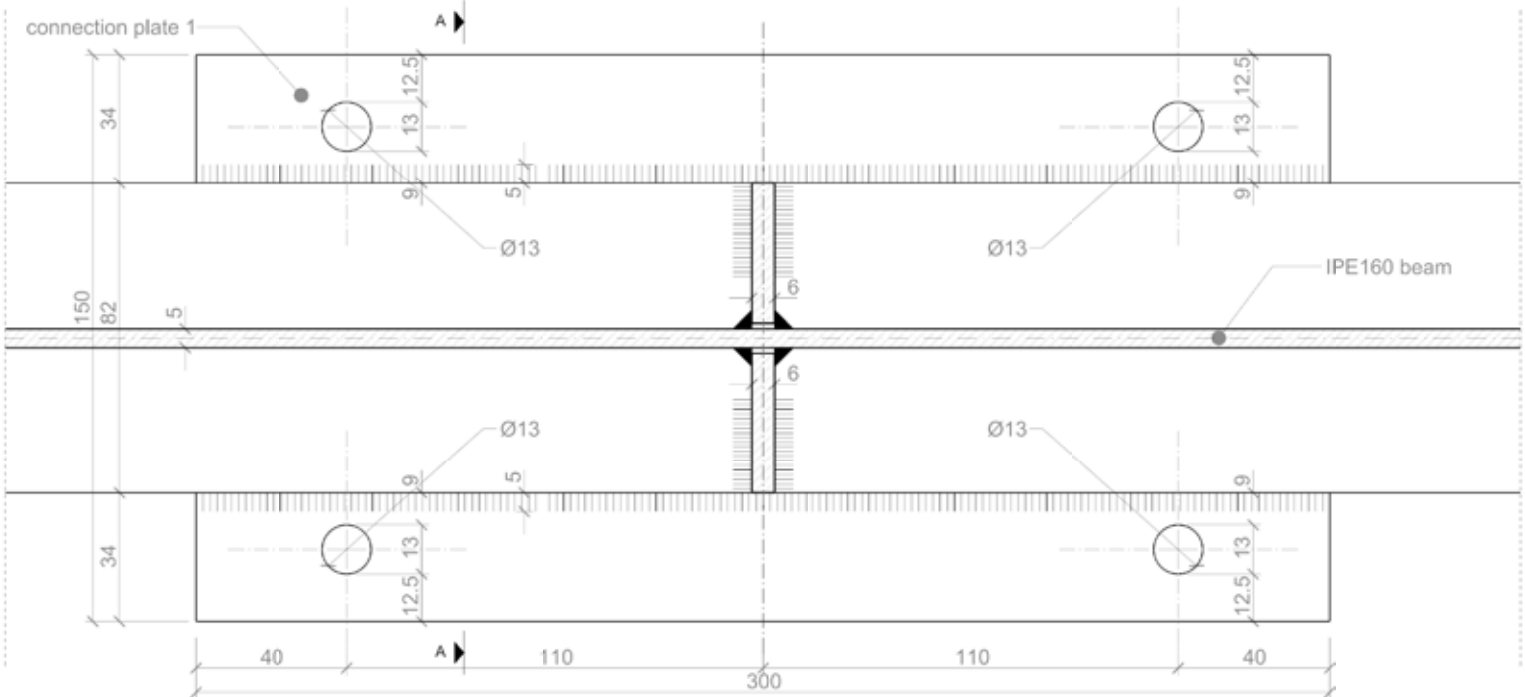
REVISION

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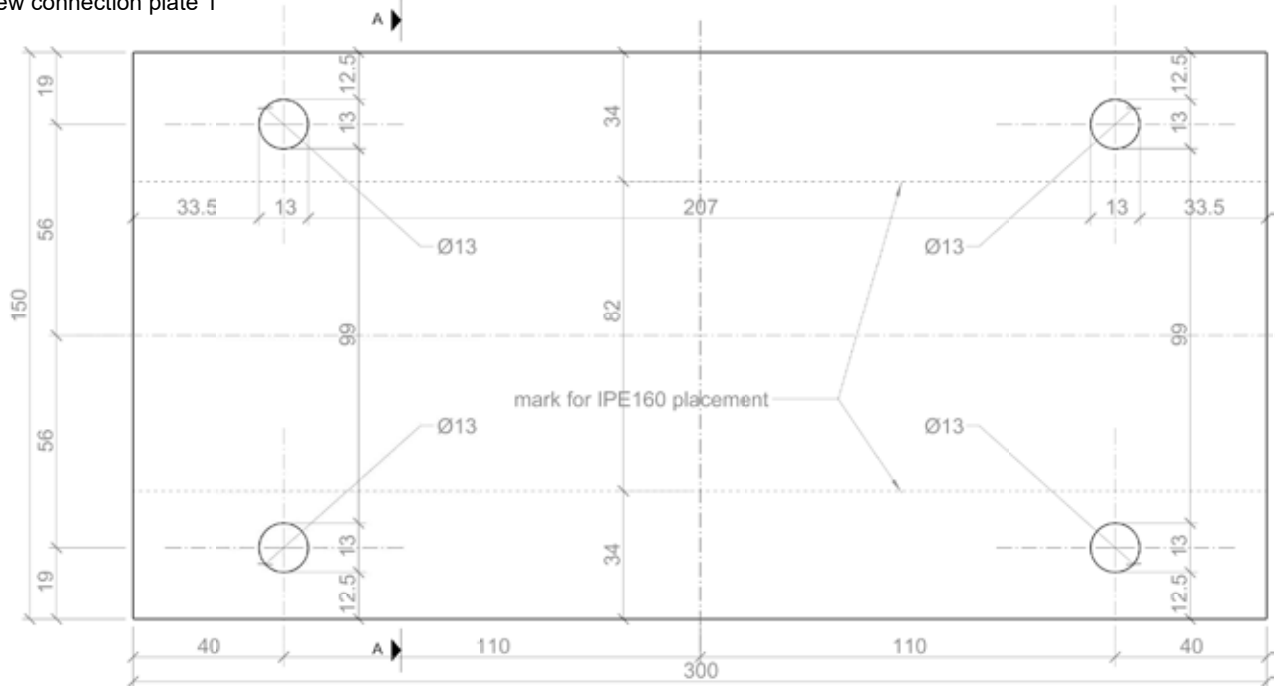
ARCHIVE TITLE

GM_A523_column_to_beam_connection

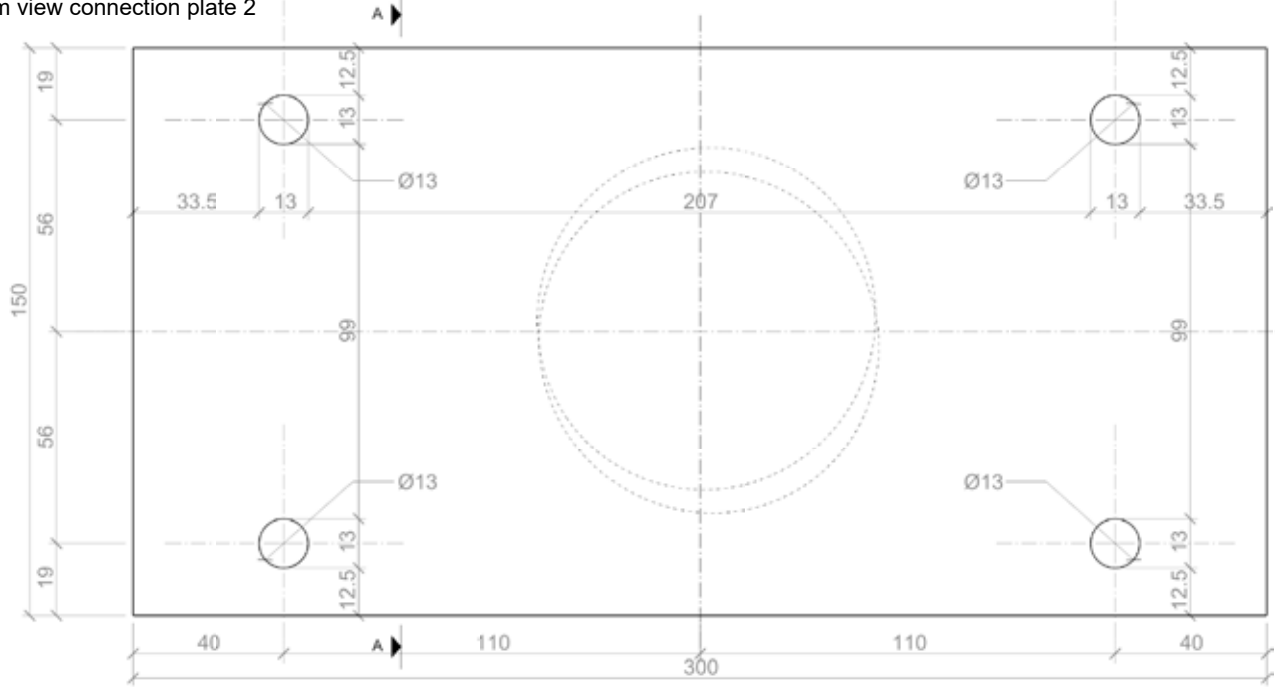
plan 1:2



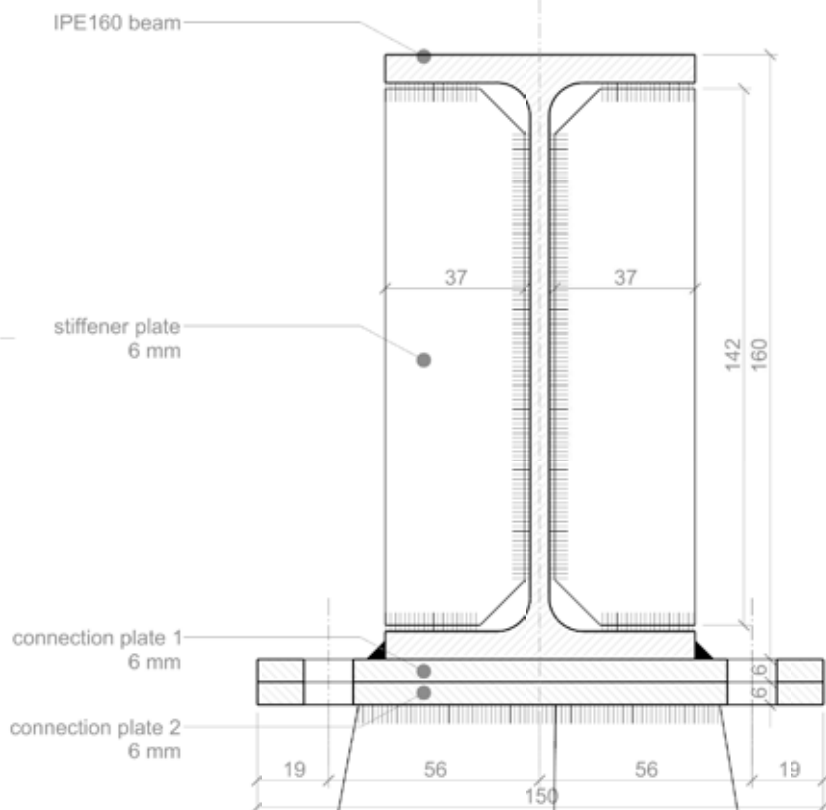
top view connection plate 1
1:2



bottom view connection plate 2
1:2



section A-A 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each connection -

2 x 300x150 mm connection plates
6 mm thick

2 x 37x142 mm stiffener plates
6 mm thick

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

BRAVE AURORA
RAISING PERSPECTIVES IN AFRICA

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[a]FA **IOA** **di:angewandte**
INSTITUTE OF ARCHITECTURE
University of Applied Arts Vienna

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Column to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 08

REVISION

-

ARCHIVE TITLE

GM_A523_column_to_beam_connection

