

PROPOSED 24HOUR ECONOMY MARKET

MINISTRY OF LOCAL GOVERNMENT, CHIEFTAINCY AND RELIGIOUS AFFAIRS

RELEVANT CONSTRUCTION DRAWINGS

MARKET MODEL 2

EASTERN REGION



BLOCK A

COMMERCIAL BUILDING

CONSTRUCTION DRAWINGS

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MARKET MODEL 2, EASTERN REGION

DRAWING SCHEDULE

Client: Ministry of Local Government,
Chieftaincy & Religious Affairs

Consultant: FeDems Ltd
Project phase: Design

No.	SHEET	DISCIPLINE	DRAWING TITLE	SCALE	SIZE	ORIG. PAGE
ARCHITECTURAL DRAWINGS						
1	—	—	Section Cover	—	A3	p. 2
2	A01	Architectural	Ground Floor Plan	1:100	A3	p. 3
3	A02	Architectural	First Floor Plan	1:100	A3	p. 4
4	A03	Architectural	Roof Framing Plan	1:100	A3	p. 5
5	A04	Architectural	Roof Covering Plan	1:100	A3	p. 6
6	A05	Architectural	Section	1:100	A3	p. 7
7	A06	Architectural	Elevations	1:100	A3	p. 8
8	A07	Architectural	Doors & Windows Schedule	1:100	A3	p. 9
9	A08	Architectural	Finishing Schedule Ground & First Floor Plan	1:100	A3	p. 10
STRUCTURAL DRAWINGS						
10	—	—	Section Cover	—	A3	p. 11
11	S01	Structural	Footings Layout	1:200	A2	p. 12
12	S02	Structural	Footings Layout	1:200	A2	p. 13
13	S03	Structural	Foundation Layout	1:200	A2	p. 14
14	S04	Structural	Footings Details	1:200	A2	p. 15
15	S05	Structural	Footings Details	1:200	A2	p. 16
16	S06	Structural	Footings Details	1:200	A2	p. 17
17	S07	Structural	Column Details	1:200	A2	p. 18
18	S08	Structural	Column Details	1:200	A2	p. 19
19	S09	Structural	Slab Detailing	1:200	A2	p. 20
20	S10	Structural	Slab Detailing BBS	1:200	A2	p. 21
21	S11	Structural	Ground Floor-GA	1:200	A2	p. 22
22	S12	Structural	First Floor-GA	1:200	A2	p. 23
23	S13	Structural	Roof Level-GA	1:200	A2	p. 24
24	S14	Structural	GF-Beams Details	1:200	A2	p. 25
25	S15	Structural	GF-Beams Details	1:200	A2	p. 26

BLOCK A

COMMERCIAL BUILDING

CONSTRUCTION DRAWINGS

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MARKET MODEL 2, EASTERN REGION

DRAWING SCHEDULE

Client: Ministry of Local Government,
Chieftaincy & Religious Affairs

Consultant: FeDems Ltd
Project phase: Design

No.	SHEET	DISCIPLINE	DRAWING TITLE	SCALE	SIZE	ORIG. PAGE
26	S16	Structural	GF-Beams Details	1:200	A2	p. 27
27	S17	Structural	GF-Beams Details	1:200	A2	p. 28
28	S18	Structural	GF-Beams Details	1:200	A2	p. 29
29	S19	Structural	GF-Beams Details	1:200	A2	p. 30
30	S20	Structural	GF-Beams Details	1:200	A2	p. 31
31	S21	Structural	GF-Beams Details	1:200	A2	p. 32
32	S22	Structural	GF-Beams BBS	1:200	A2	p. 33
33	S23	Structural	FF-Beams Details	1:200	A2	p. 34
34	S24	Structural	FF-Beams Details	1:200	A2	p. 35
35	S25	Structural	FF-Beams Details	1:200	A2	p. 36
36	S26	Structural	FF-Beams Details	1:200	A2	p. 37
37	S27	Structural	FF-Beams Details	1:200	A2	p. 38
38	S28	Structural	FF-Beams Details	1:200	A2	p. 39
39	S29	Structural	FF-Beams Details	1:200	A2	p. 40
40	S30	Structural	FF-Beams Details	1:200	A2	p. 41
41	S31	Structural	FF-Beams BBS	1:200	A2	p. 42
42	S32	Structural	RF-Beams Details	1:200	A2	p. 43
43	S33	Structural	RF-Beams Details	1:200	A2	p. 44
44	S34	Structural	RF-Beams Details	1:200	A2	p. 45
45	S35	Structural	RF-Beams Details	1:200	A2	p. 46
46	S36	Structural	RF-Beams Details	1:200	A2	p. 47
47	S37	Structural	RF-Beams Details	1:200	A2	p. 48
48	S38	Structural	RF-Beams Details	1:200	A2	p. 49
49	S39	Structural	RF-Beams BBS	1:200	A2	p. 50
50	S40	Structural	Staircase Detailing	1:200	A2	p. 51

BLOCK A

COMMERCIAL BUILDING

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

Rev	Date	Description	Initials
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CLIENT

**MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
REGIOUS AFFAIRS**

PROJECT

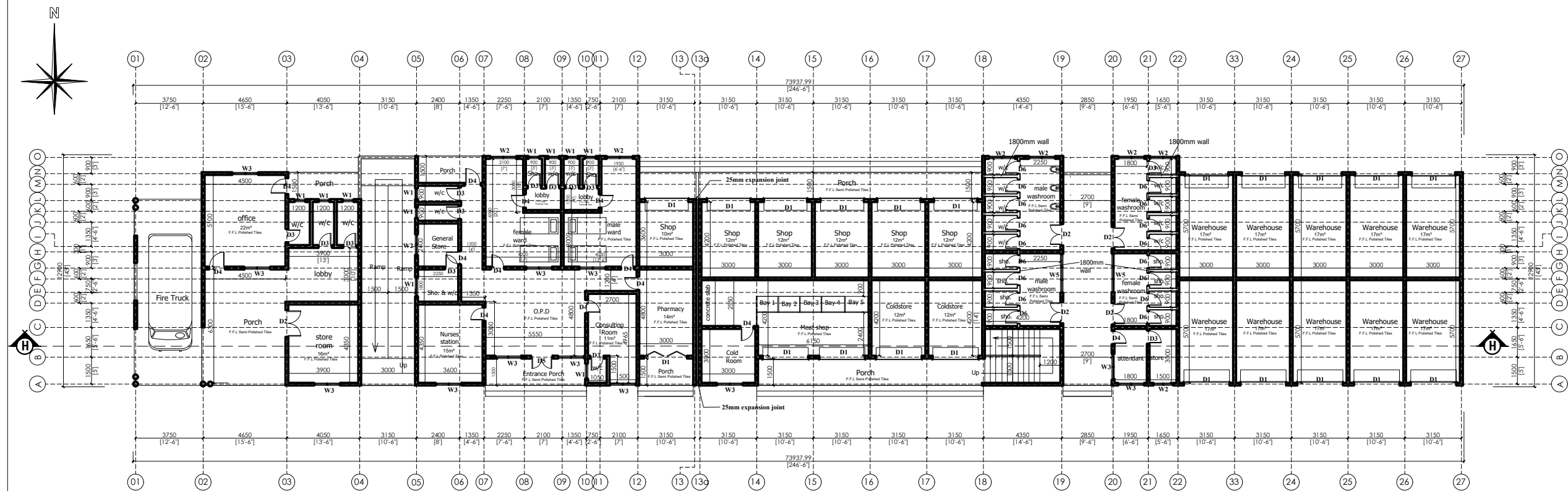
**PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE**

TITTLE

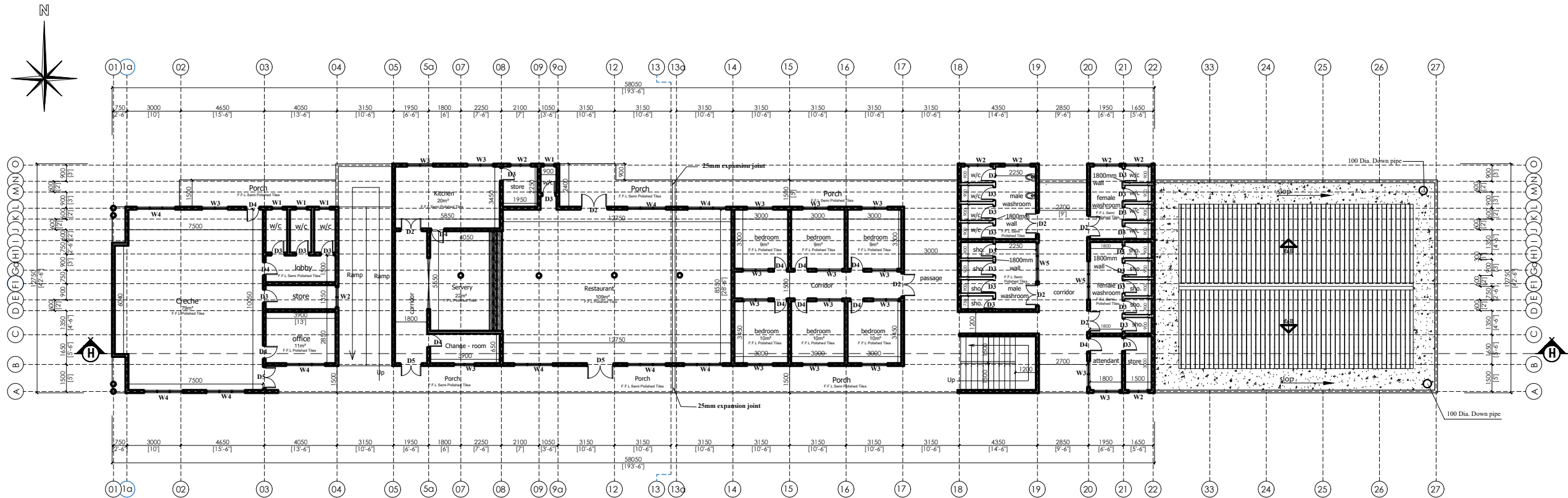
GROUND FLOOR PLAN

Sheet No.	Discipline	Project Phase
A01	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	



GROUND FLOOR PLAN



FIRST FLOOR PLAN

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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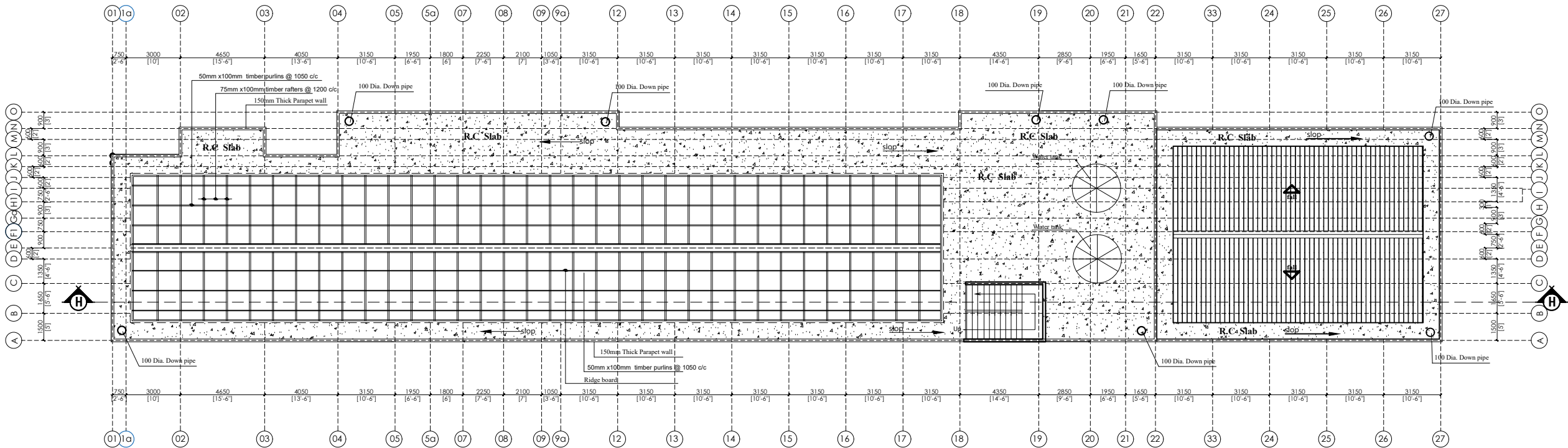
CLIENT
MINISTRY OF LOCAL
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PROJECT
PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE

TITTLE
FIRST FLOOR PLAN

Sheet No.	Discipline	Project Phase
A02	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	



ROOF PLAN (ROOFIBG MEMBERS)

GENERAL

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REVISION

Rev	Date	Description	Initials
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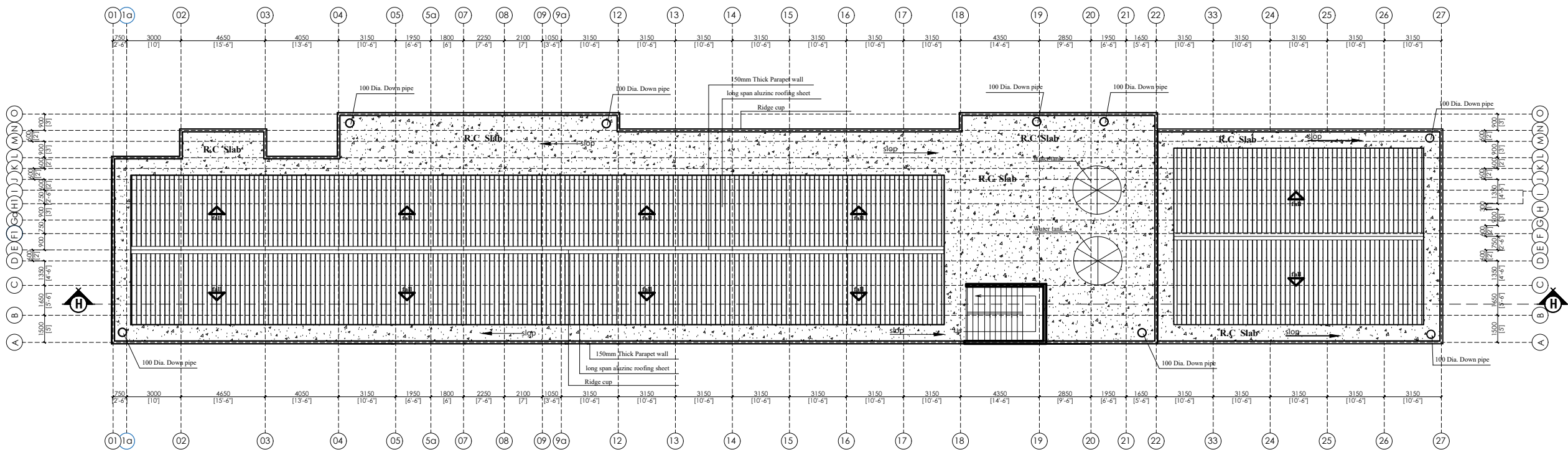
CLIENT
MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
REGIOUS AFFAIRS

PROJECT
PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE

TITLE
ROOF FRAMING PLAN

Sheet No.	Discipline	Project Phase
A03	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	



ROOF PLAN (ROOF COVERING)

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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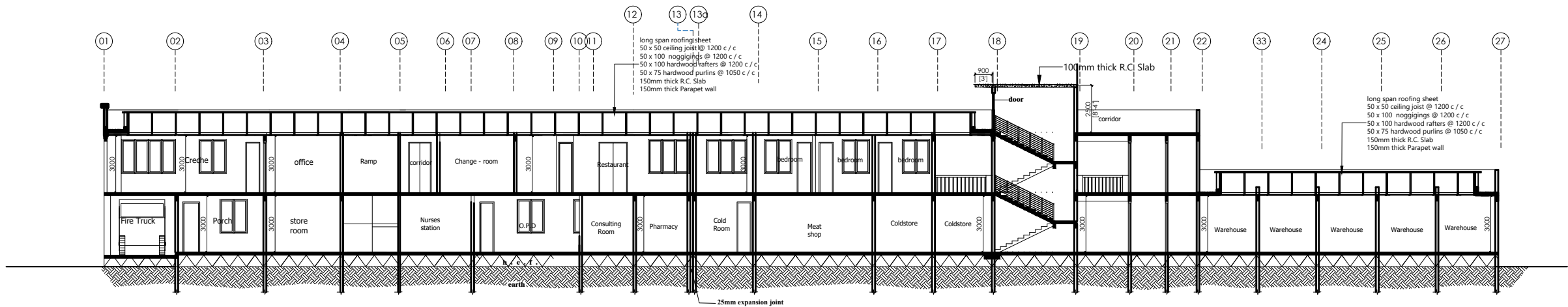
CLIENT
**MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
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PROJECT
**PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE**

TITLE
ROOF COVERING PLAN

Sheet No.	Discipline	Project Phase
A04	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	



SECTION H - H
SCALE : 1 : 100

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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PROJECT
**PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE**

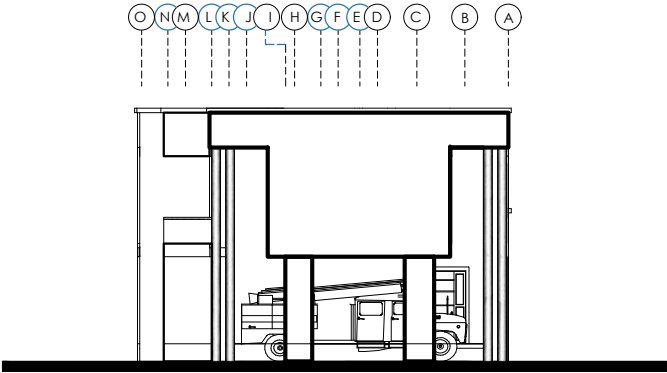
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SECTION

Sheet No.	Discipline	Project Phase
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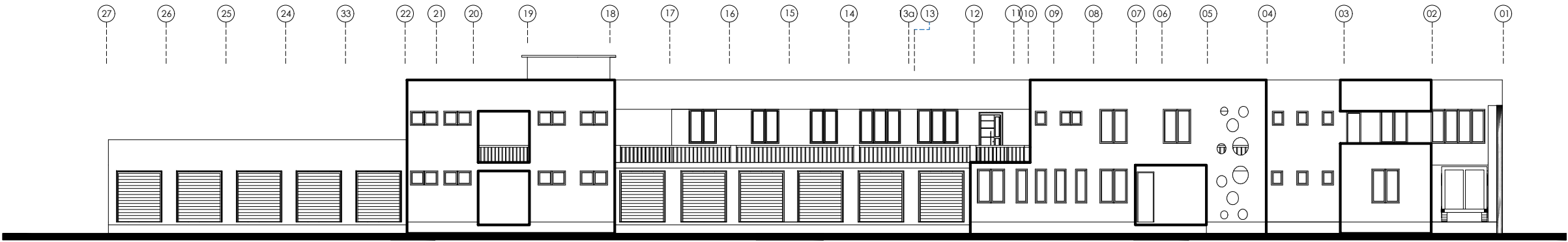
DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	



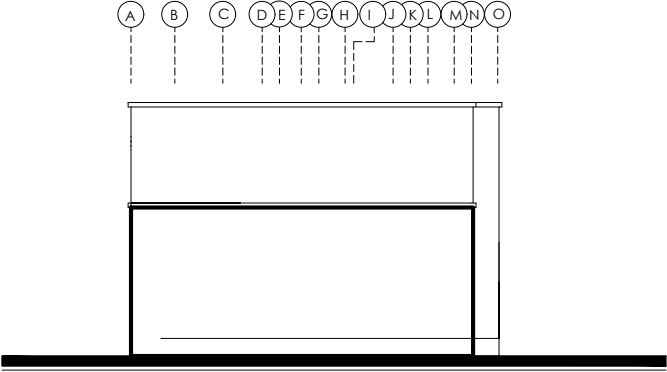
FRONT ELEVATION



LEFT SIDE ELEVATION



BACK ELEVATION



RIGHT SIDE ELEVATION

GENERAL

Notes

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MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
REGIOUS AFFAIRS

PROJECT

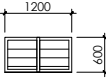
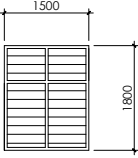
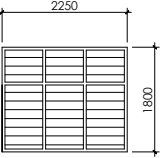
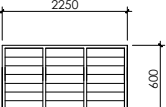
PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE

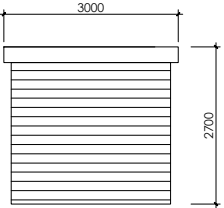
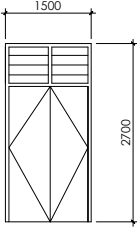
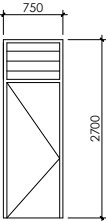
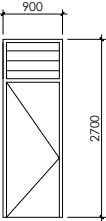
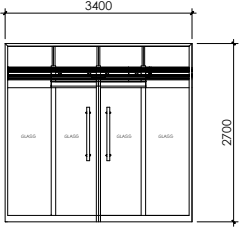
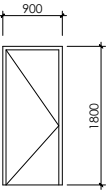
TITLE

ELEVATIONS

Sheet No.	Discipline	Project Phase
A06	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	

WINDOWS SKETCH					
W1	W2	W3	W4	W5	
					
MODEL TAG: W1	MODEL TAG: W2	MODEL TAG: W3	MODEL TAG: W4	MODEL TAG: W5	
DESCRIPTION: LOUVRED WINDOW FINISH WITH APPROVED OIL PAINT AS PER SPECIFICATION	DESCRIPTION: LOUVRED WINDOW FINISH WITH APPROVED OIL PAINT AS PER SPECIFICATION	DESCRIPTION: LOUVRED WINDOW FINISH WITH APPROVED OIL PAINT AS PER SPECIFICATION	DESCRIPTION: LOUVRED WINDOW FINISH WITH APPROVED OIL PAINT AS PER SPECIFICATION	DESCRIPTION: LOUVRED WINDOW FINISH WITH APPROVED OIL PAINT AS PER SPECIFICATION	
QUANTITY: 15no.	QUANTITY: 6no.	QUANTITY: 10no.	QUANTITY: 9no.	QUANTITY: 4no.	
FINISHES: PRE-COATED FRAMES	FINISHES: PRE-COATED FRAMES	FINISHES: PRE-COATED FRAMES	FINISHES: PRE-COATED FRAMES	FINISHES: PRE-COATED FRAMES	
LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: WASHROOM	

DOORS SKETCH					
D1	D2	D3	D4	D5	D6
					
MODEL TAG: D1	MODEL TAG: D2	MODEL TAG: D3	MODEL TAG: D4	MODEL TAG: D5	MODEL TAG: D6
DESCRIPTION: ALUMINUM FRAME OVERHEAD ROLLING DOOR	DESCRIPTION: TIMBER, FRAMED, HINGED PANEL DOOR WITH FANLIGHT	DESCRIPTION: TIMBER, FRAMED, HINGED PANEL DOOR WITH FANLIGHT	DESCRIPTION: TIMBER, FRAMED, HINGED PANEL DOOR WITH FANLIGHT	DESCRIPTION: DOUBLE SWING TRANSPARENT GLASS DOOR	DESCRIPTION: TIMBER, FRAMED, HINGED PANEL DOOR WITH FANLIGHT
QUANTITY: 21no.	QUANTITY: 12no.	QUANTITY: 16no.	QUANTITY: 25no.	QUANTITY: 4no.	QUANTITY: 35no.
FINISHES: ALUMINUM FRAME / METAL SHEET	FINISHES: POLISHED DOOR / DARK BROWN IN COLOUR	FINISHES: POLISHED DOOR / DARK BROWN IN COLOUR	FINISHES: POLISHED DOOR / DARK BROWN IN COLOUR	FINISHES: GLASS	FINISHES: POLISHED DOOR / DARK BROWN IN COLOUR
LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: AS INDICATED ON PLAN	LOCATION: BANKING HALL	LOCATION: AS INDICATED ON PLAN

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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**MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
REGIOUS AFFAIRS**

PROJECT
**PROPOSED 24-HOUR ECONOMY
MARKET & COMMERCIAL CENTRE**

TITTLE
DOORS & WINDOWS SCHEDULE

Sheet No.	Discipline	Project Phase
A07	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	

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Notes

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**MINISTRY OF LOCAL
GOVERNMENT, CHIEFTAINCY &
REGIOUS AFFAIRS**

PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITTLE

FINISHING SCHEDULE

GROUND & FIRST FLOOR PLAN

Sheet No.	Discipline	Project Phase
A08	ARCH.	DESIGN

DESIGNED BY :	FEDEMS LTD
DRAWN BY :	FEDEMS LTD
CHECKED BY :	OBA
DATE :	MAY , 2026
SCALE :	1:100
PROJECT ID :	

BLOCK A

COMMERCIAL BUILDING

STRUCTURAL DRAWINGS

Notes

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Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

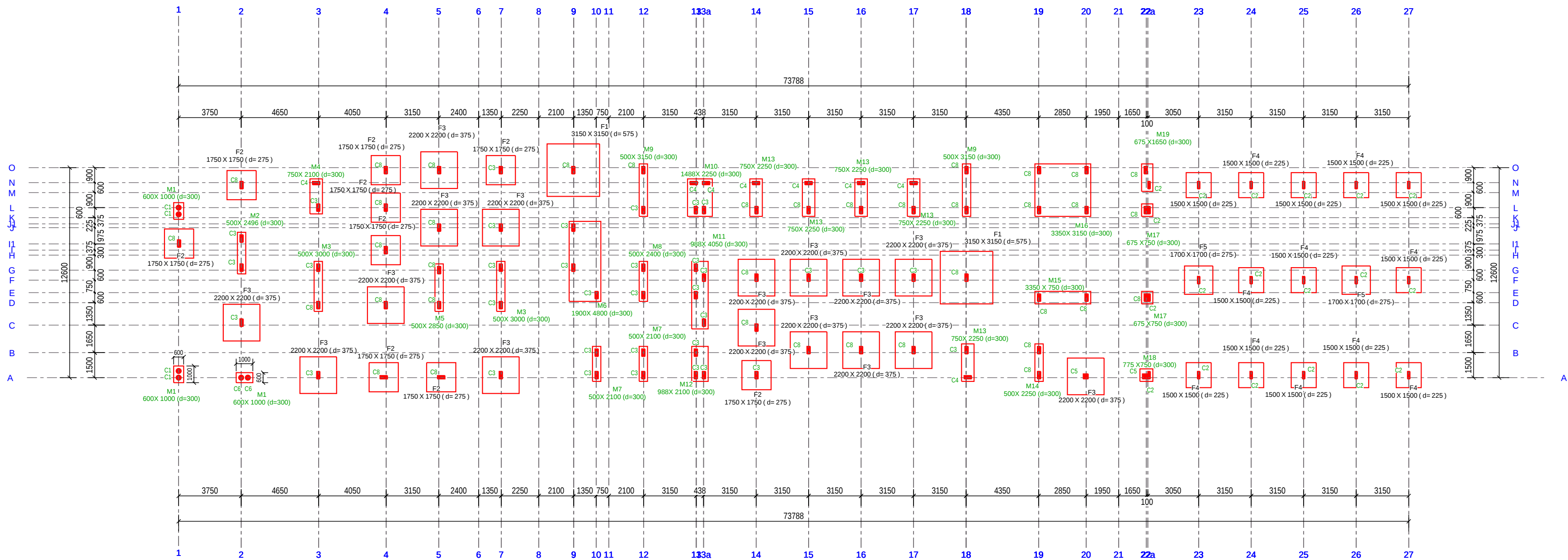
PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE

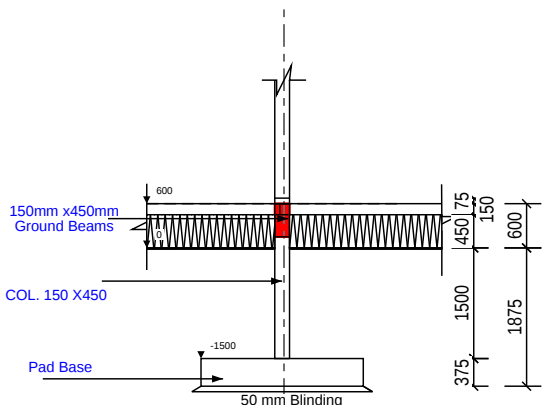
FOOTINGS LAYOUT

Sheet No.	Discipline	Project Phase
S01	STRS	DESIGN

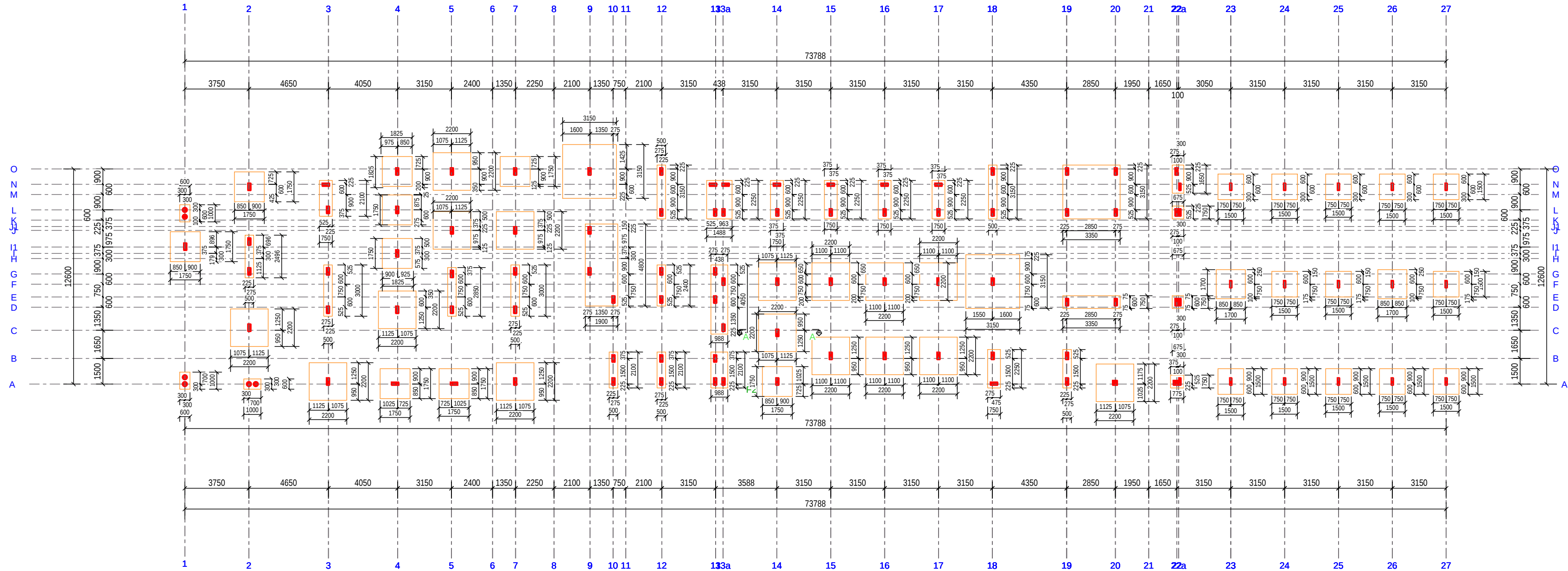
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



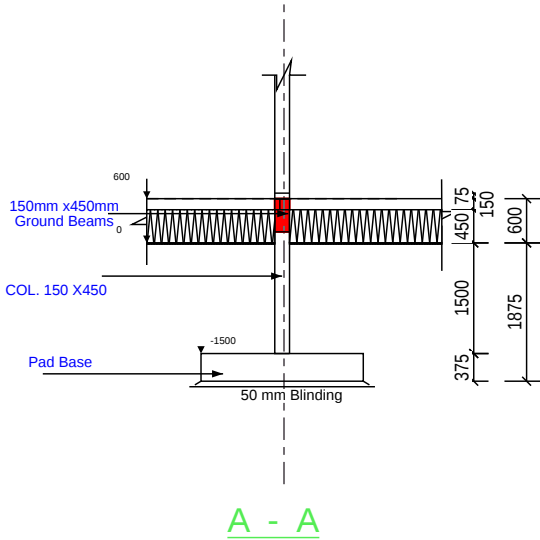
FOOTINGS LAYOUT 01 1:200



B - B



FOOTINGS LAYOUT 02 1:200



GENERAL

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REVISION

Rev	Date	Description	Initials



CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

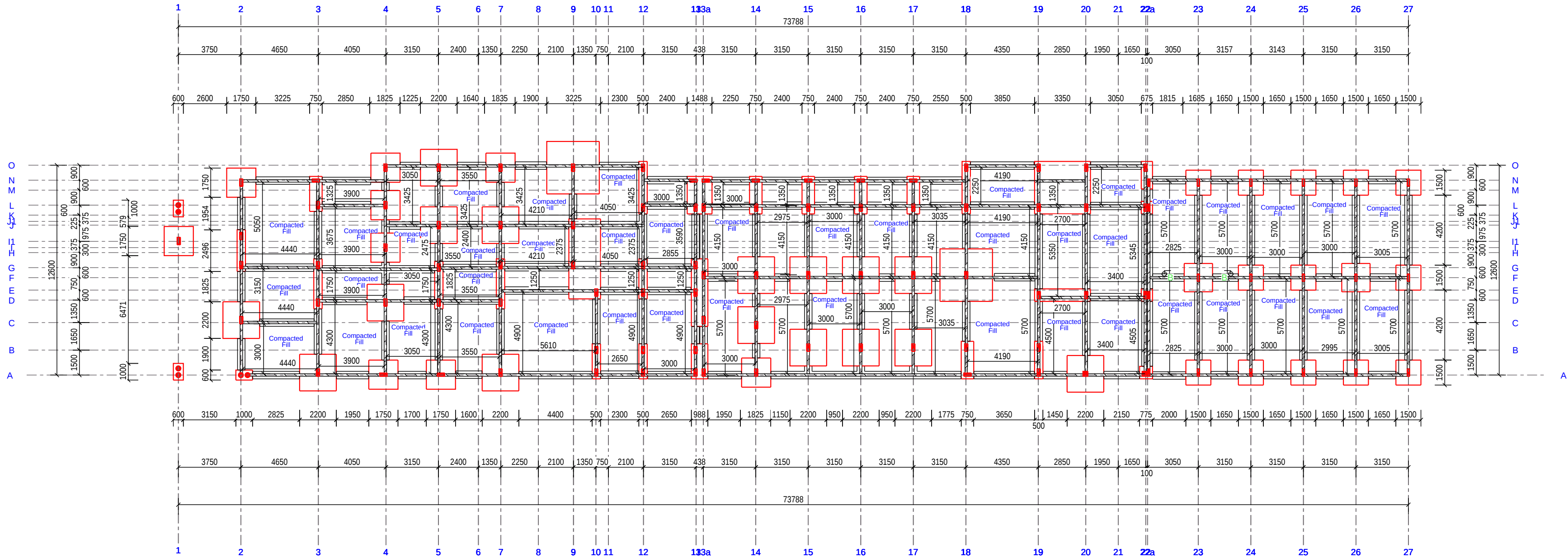
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

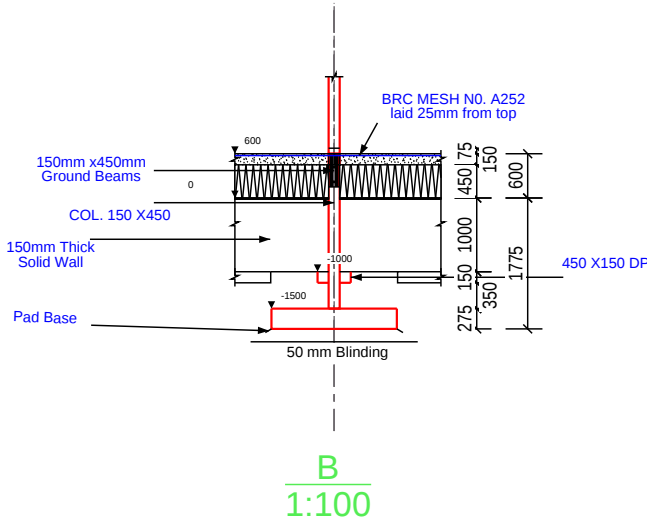
FOOTINGS LAYOUT

Sheet No.	Discipline	Project Phase
S02	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FOUNDATION LAYOUT 1:200



GENERAL

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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

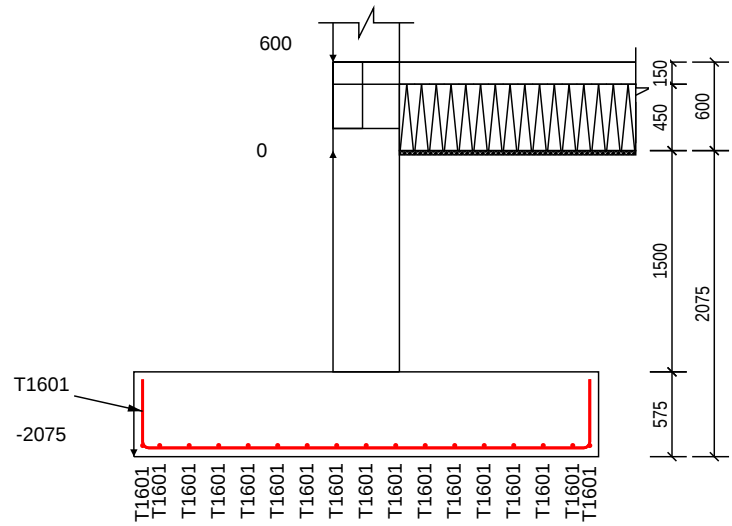
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

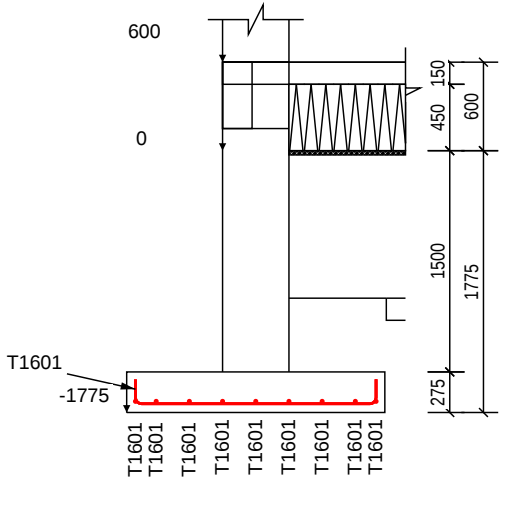
FOUNDATION LAYOUT

Sheet No.	Discipline	Project Phase
S03	STRS	DESIGN

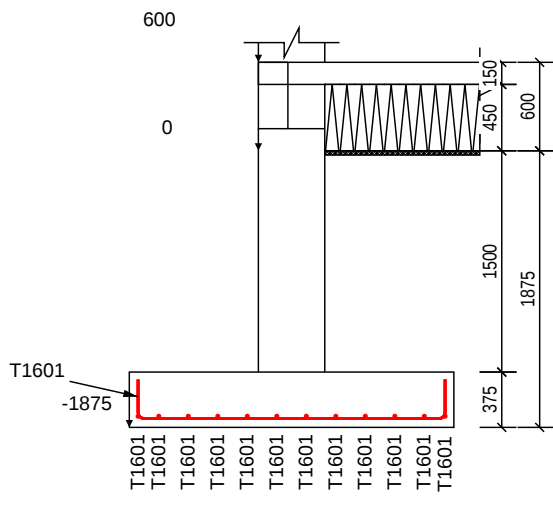
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



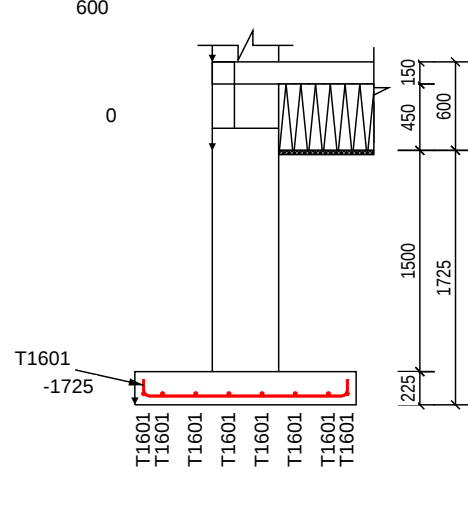
F1 3150X3150 (d=575)



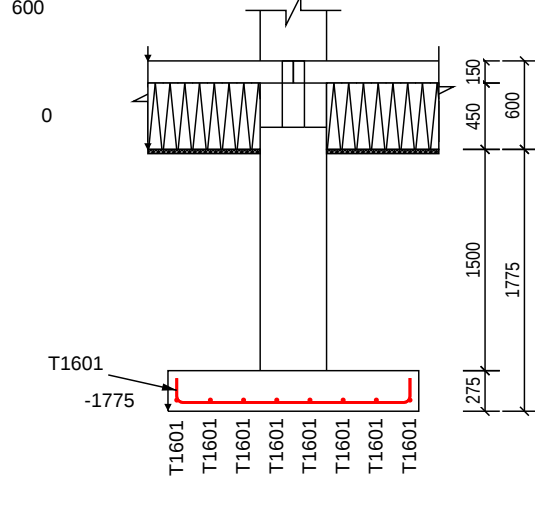
F2 1750 X1750 (d=275)



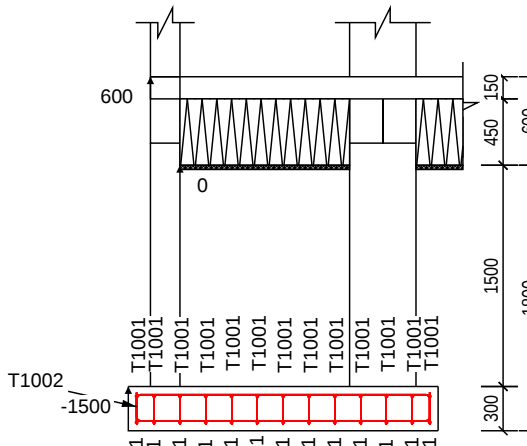
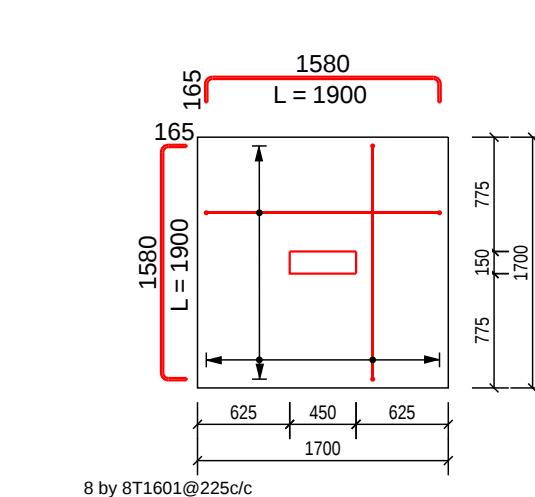
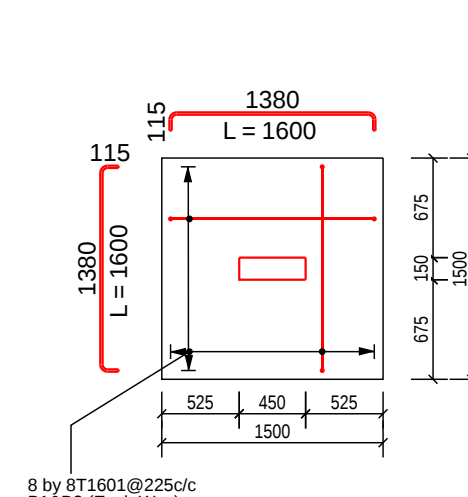
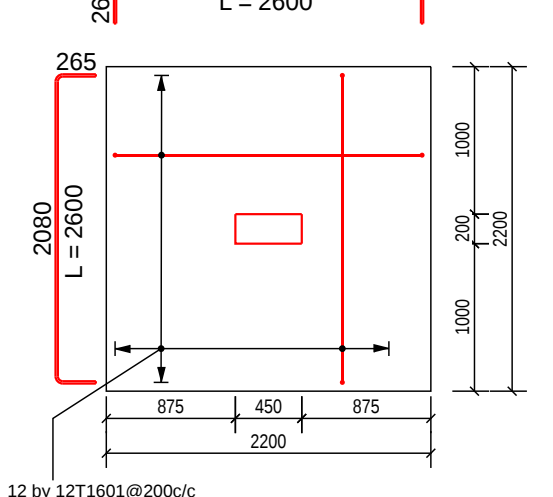
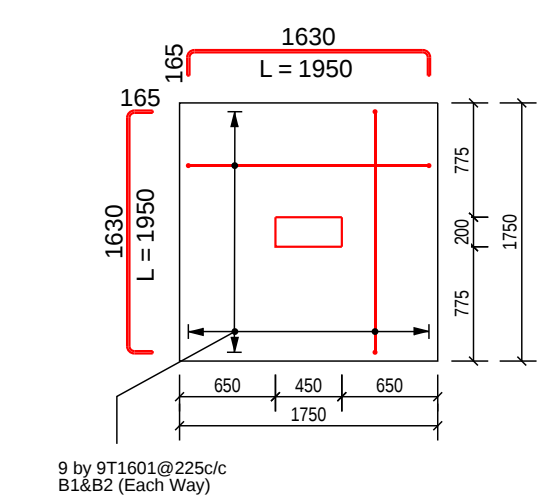
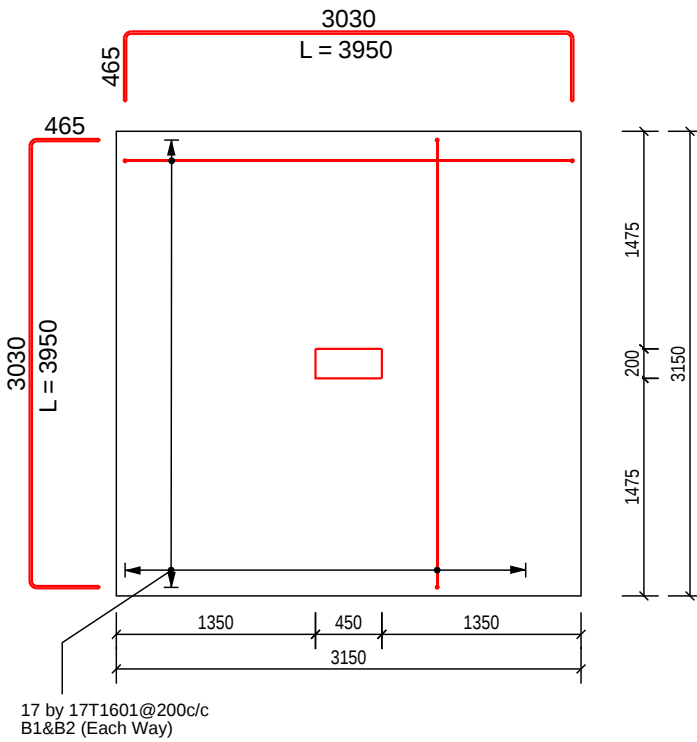
F3 2200 X2200 (d=375)



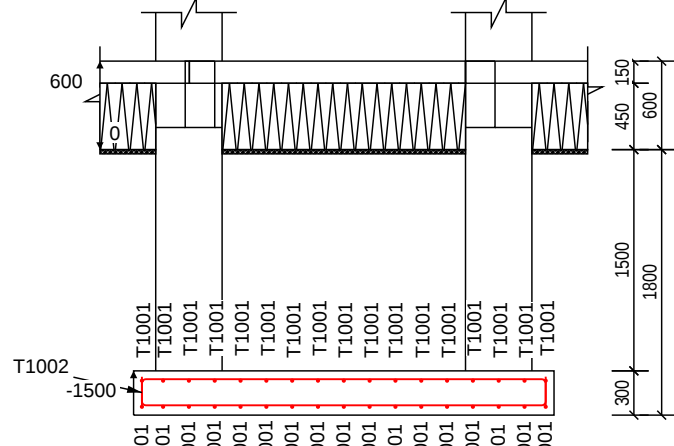
F4 1500X1500 (d=225)



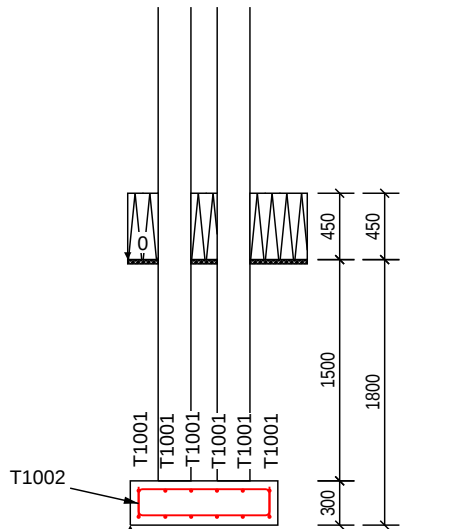
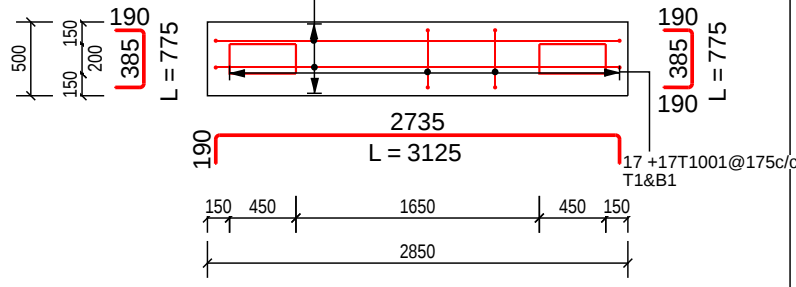
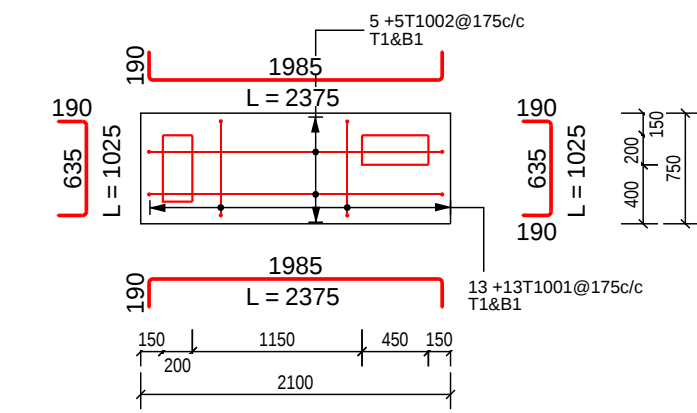
F5 1700 X1700 (d=275)



M4 750 X2100 (d=300)



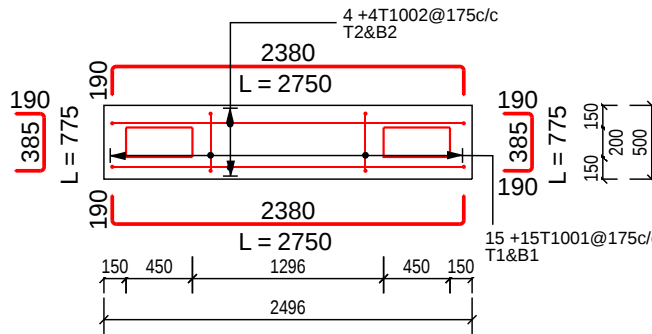
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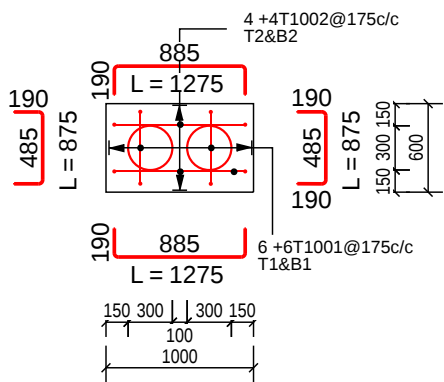
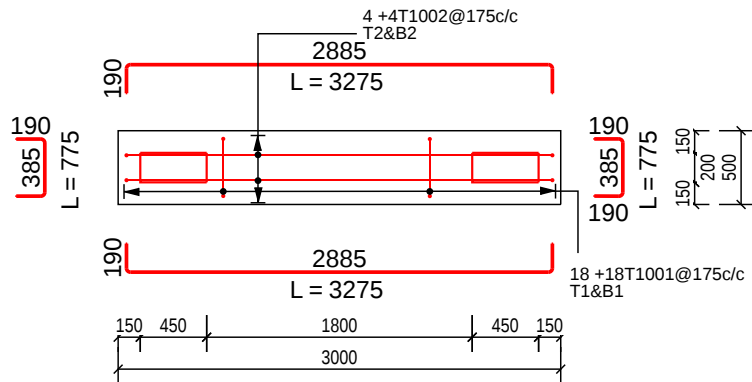
M1 600 X100



M2 500X2496 (d=300)



M3 500 X3000 (d=300)



GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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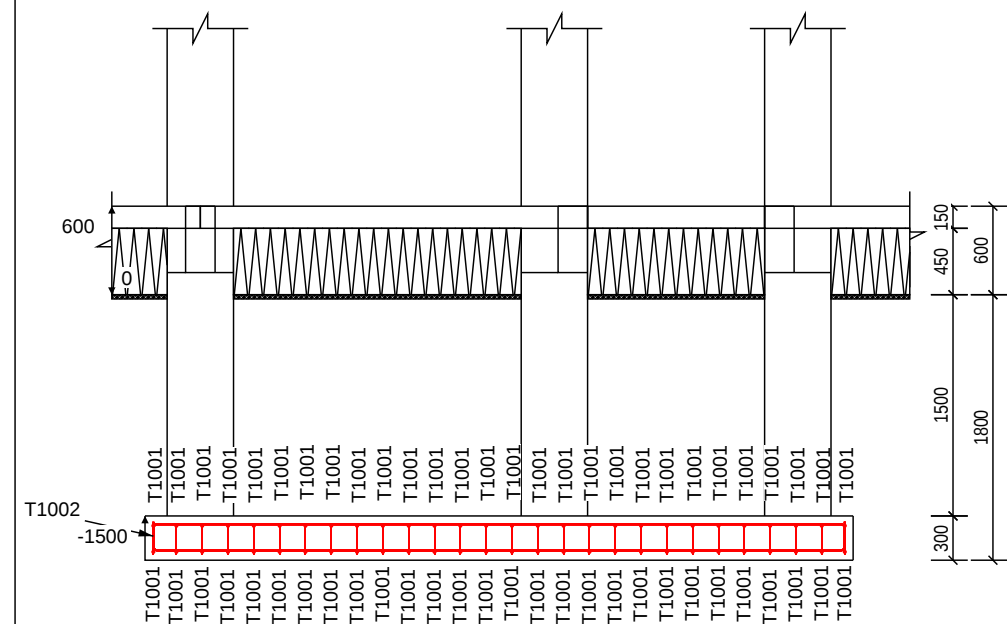
CLIENT
MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

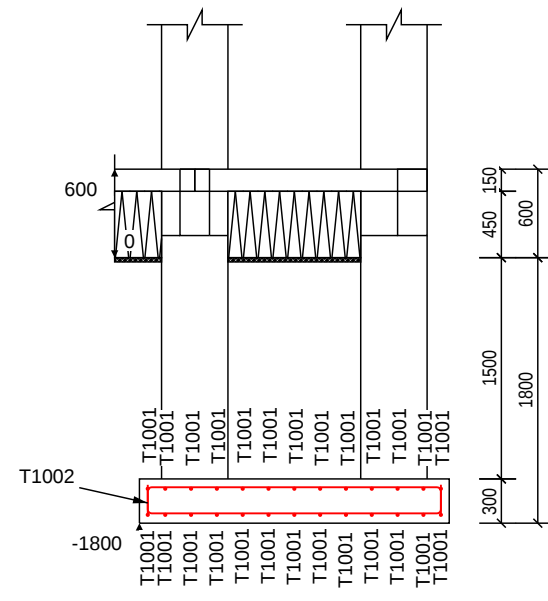
TITLE
FOOTINGS DETAILS

Sheet No.	Discipline	Project Phase
S04	STRS	DESIGN

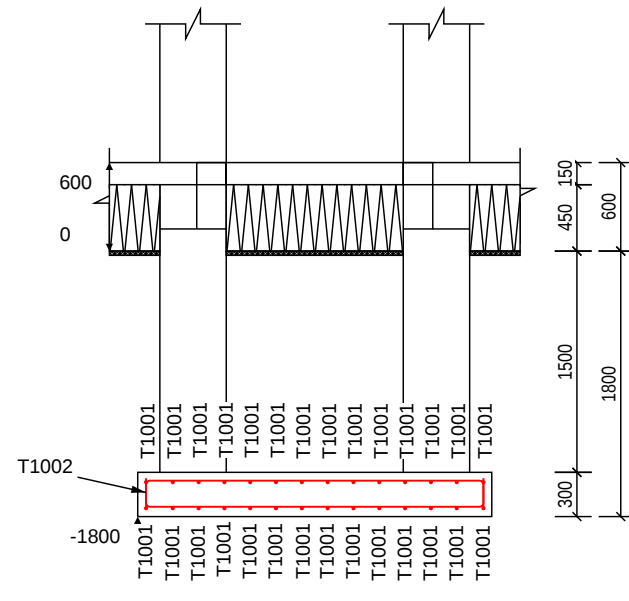
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



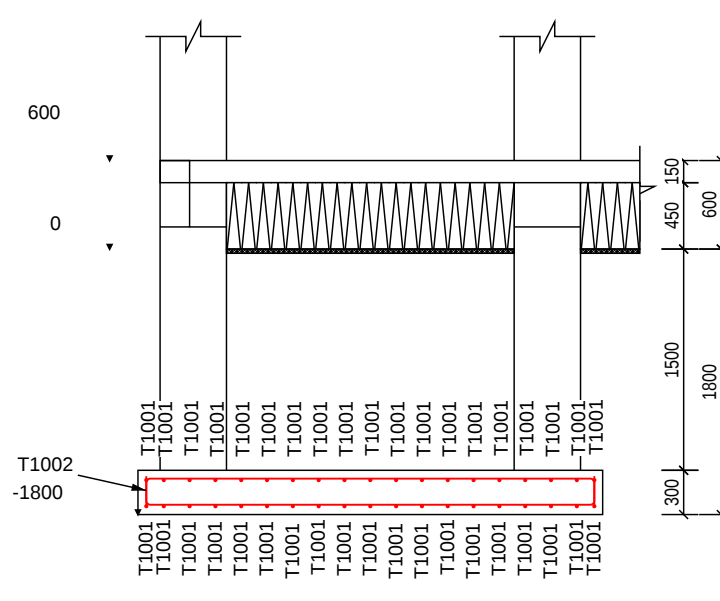
M6 1900 X 4800 (d=300)



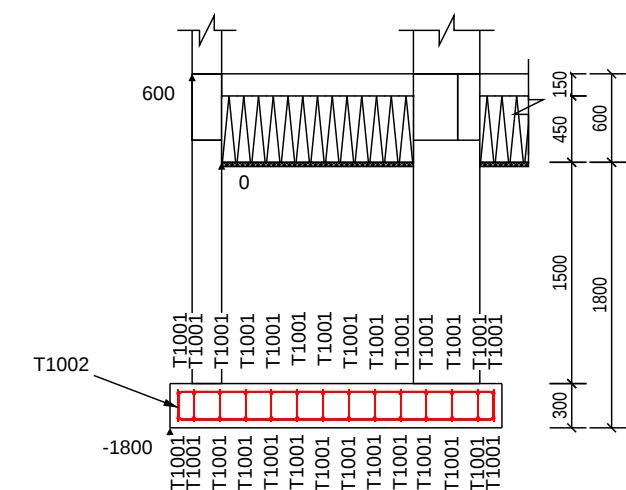
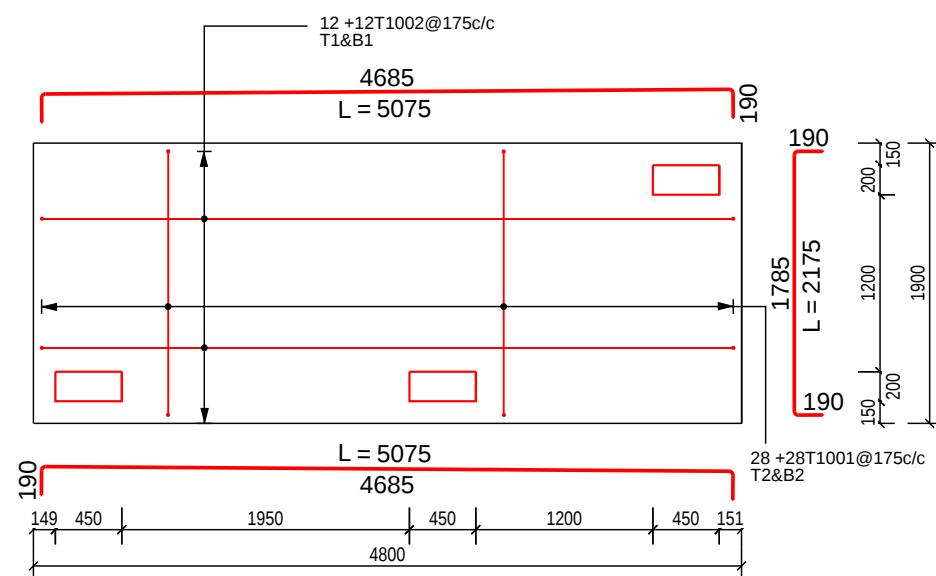
M7 500 X 2100 (d=300)



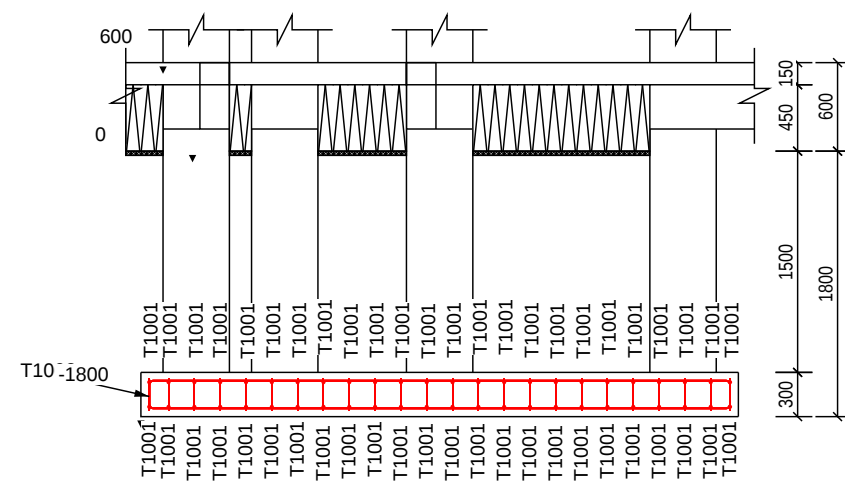
M8 500 X 2400 (d=300)



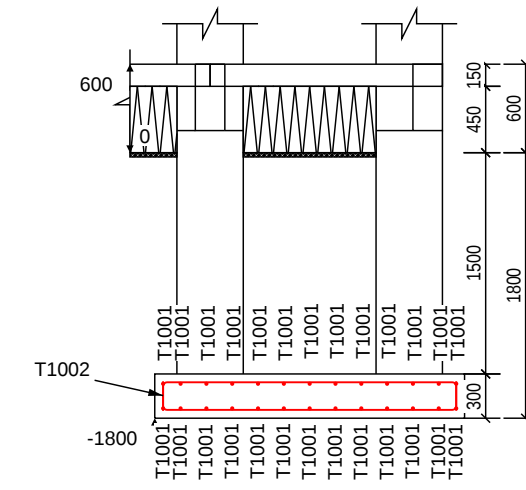
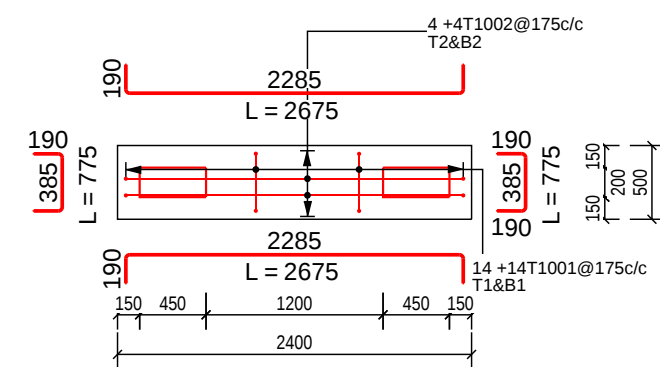
M9 500 X 3150 (d=300)



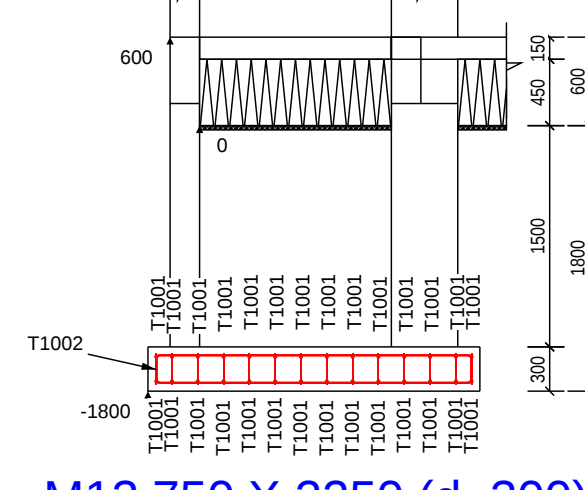
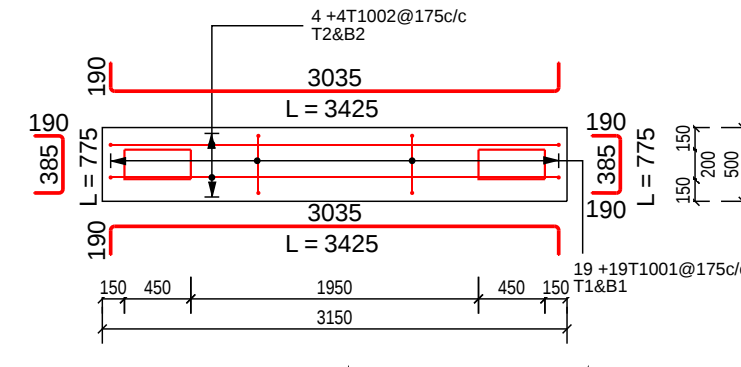
M10 1488 X 2250 (d=300)



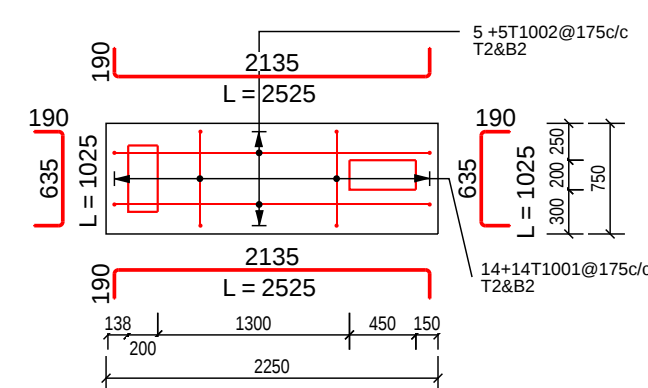
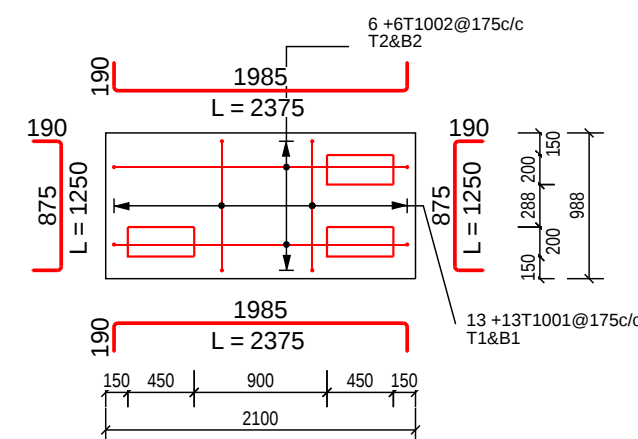
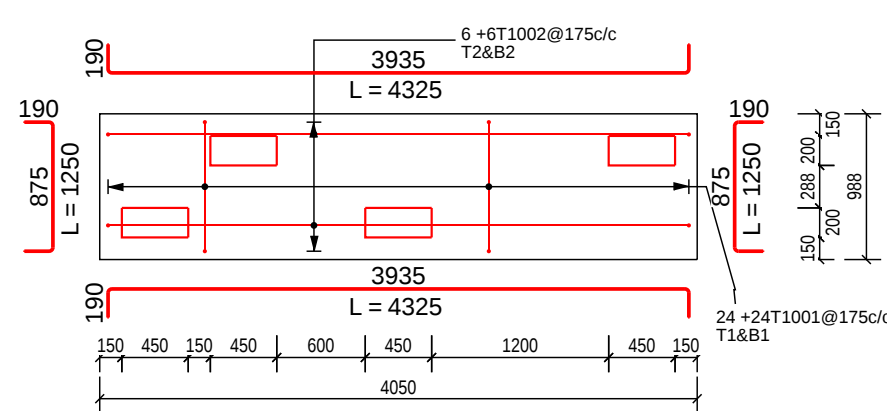
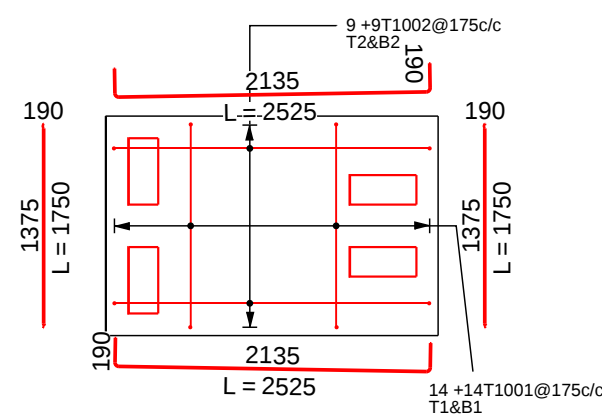
M11 988 X 4050 (d=300)



M12 988 X 2100 (d=300)



M13 750 X 2250 (d=300)

**GENERAL**Notes

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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

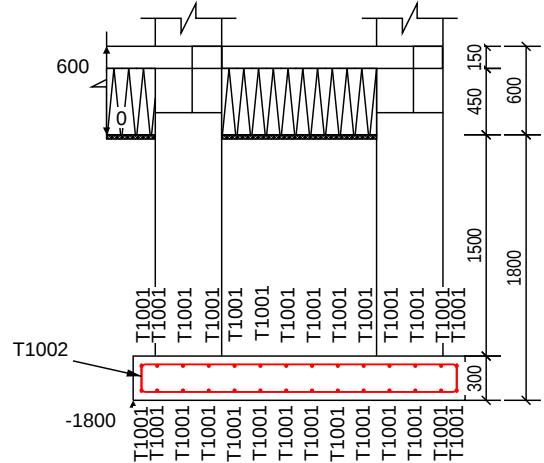
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

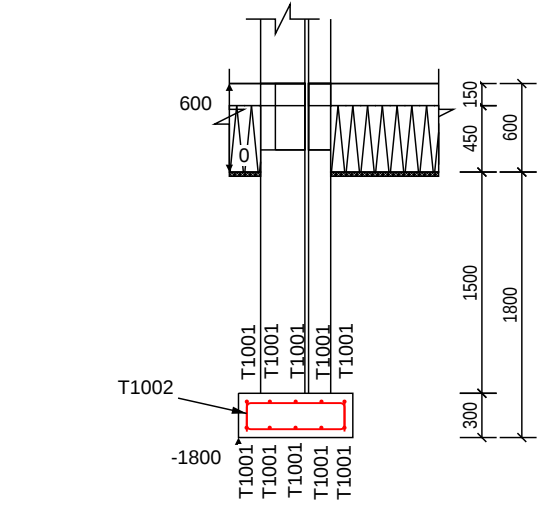
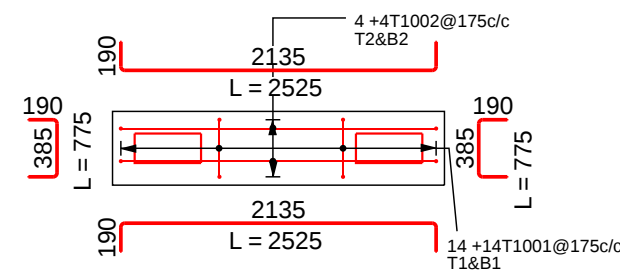
FOOTINGS DETAILS

Sheet No.	Discipline	Project Phase
S05	STRS	DESIGN

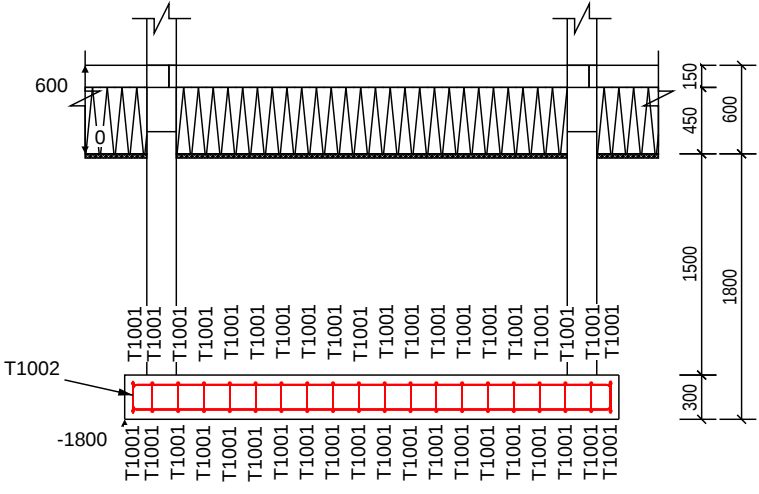
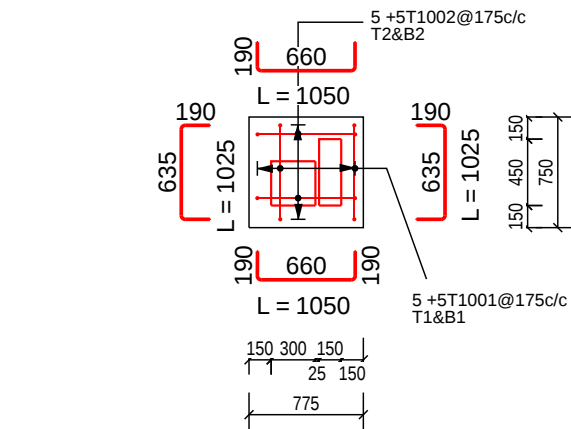
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



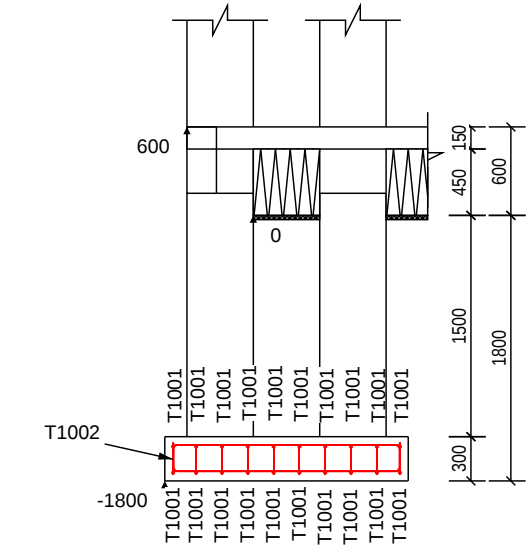
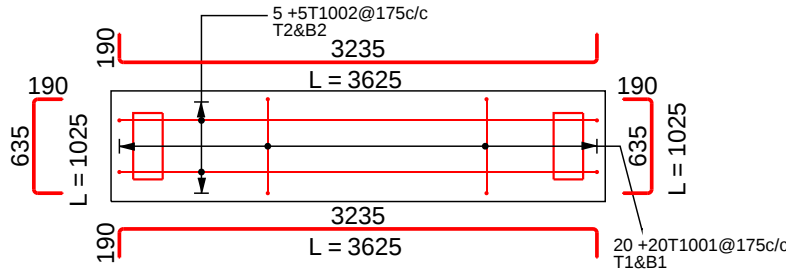
M14 500 X 2250 (d=300)



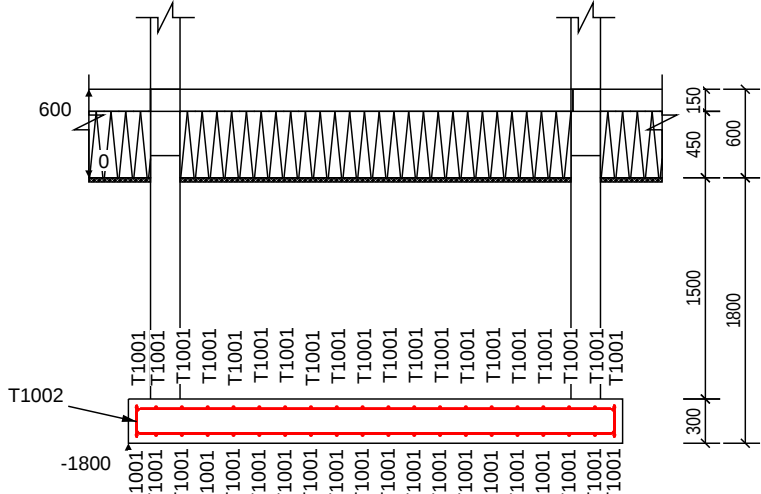
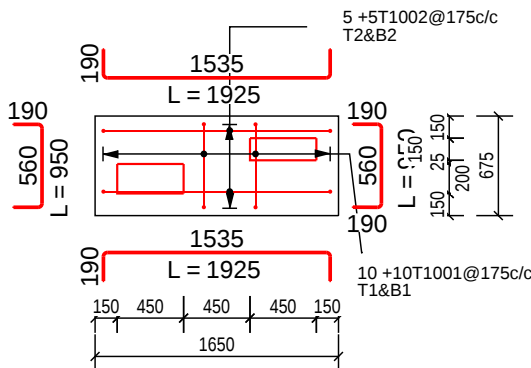
M18 775 X 750 (d=300)



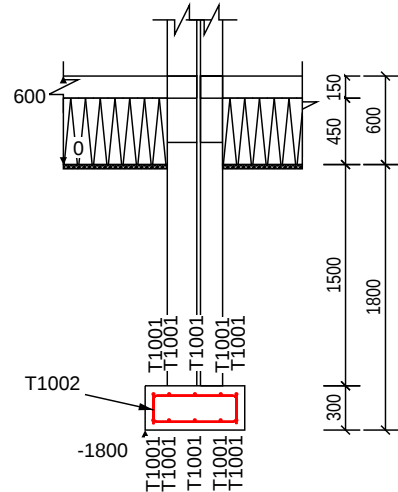
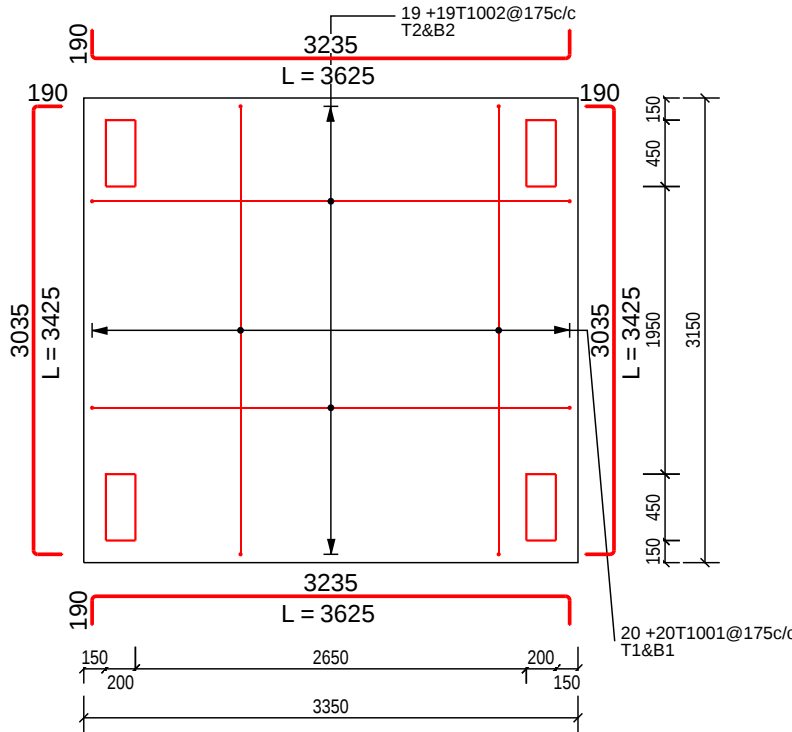
M15 750 X 3350 (d=300)



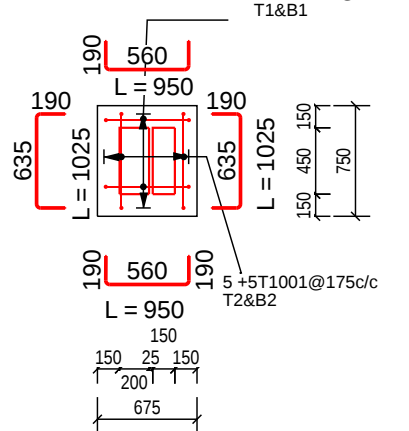
M19 675 X 1650 (d=300)



M16 3350 X3150 (d=300)



M17 675 X750 (d=300)



GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

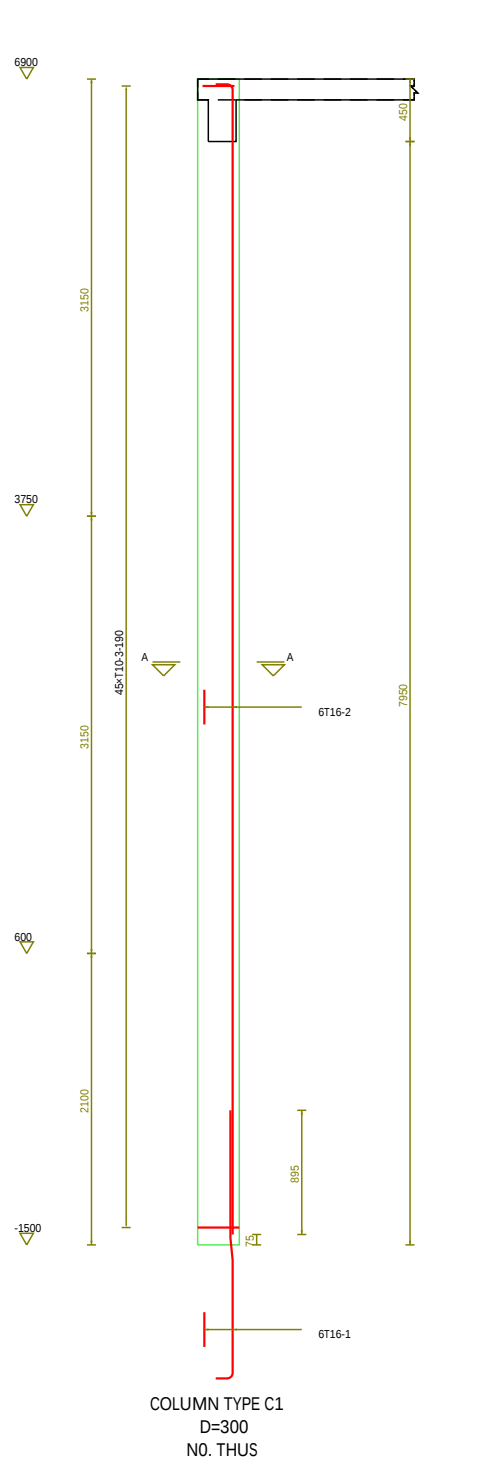
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

FOOTINGS DETAILS

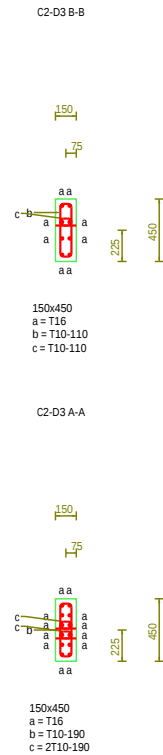
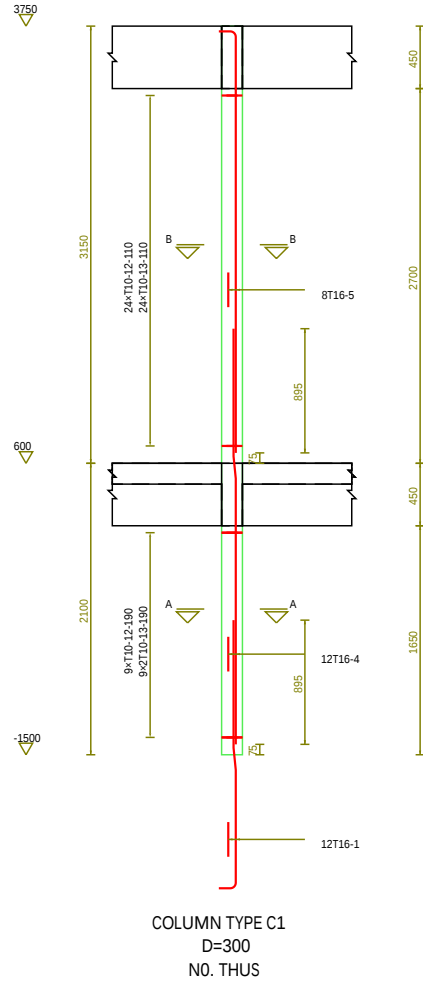
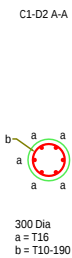
Sheet No.	Discipline	Project Phase
S06	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



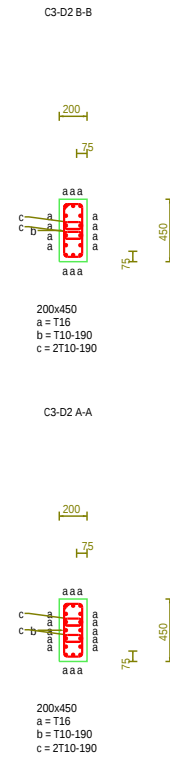
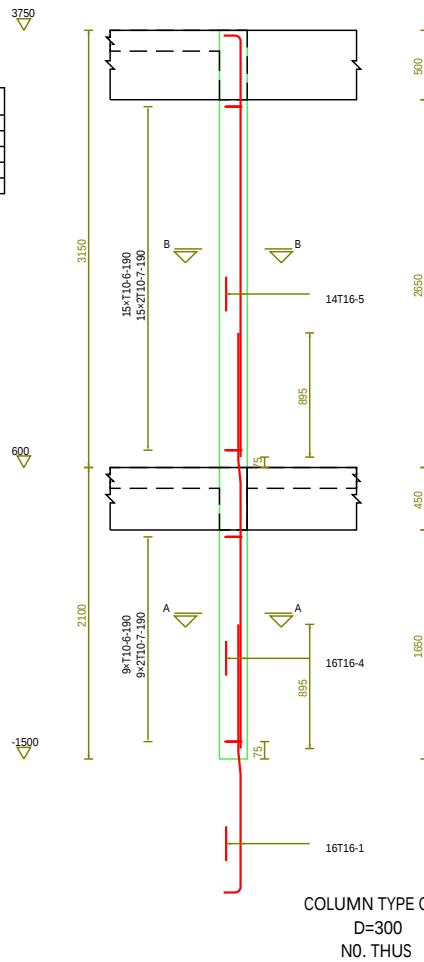
Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.832	48375.0	20.16
T16	1.580	62760.0	99.12
Grand Total			129.28

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	6	10500.0	63000.0	34	C1
2	T16	6	10500.0	63000.0	11	C1
3	T16	45	1075.0	48375.0	75	C1



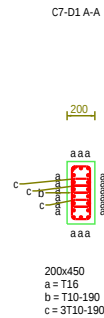
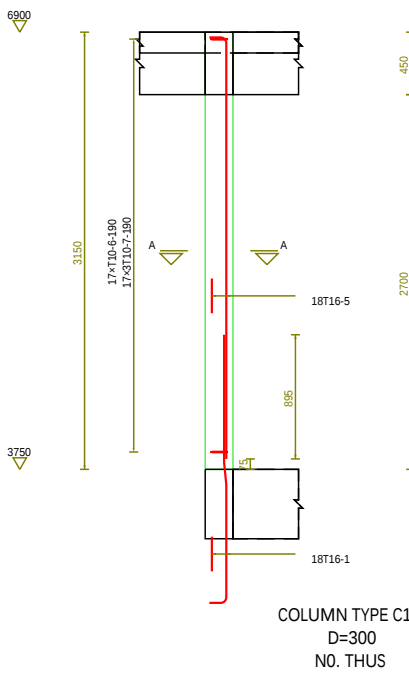
Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.832	10000.0	6.92
T16	1.580	10000.0	15.80
Grand Total			22.72

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	12	2000.0	24000.0	34	C1
2	T16	12	2000.0	24000.0	76	C1
3	T16	6	10500.0	63000.0	11	C1
4	T16	38	1125.0	42750.0	53	C1
5	T16	42	375.0	15750.0	99	C1



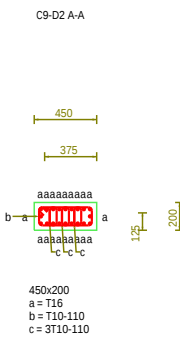
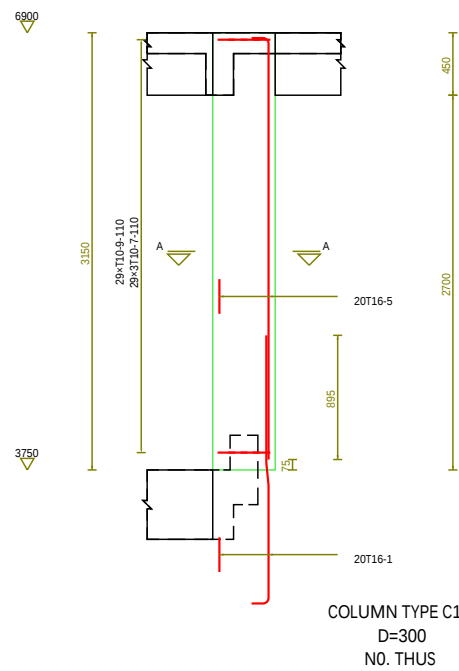
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T10	0.832	48000.0	20.06
T16	1.580	12400.0	19.74
Grand Total			39.80

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	18	2500.0	45000.0	34	C1
2	T16	18	2500.0	45000.0	76	C1
3	T16	14	1125.0	15750.0	11	C1
4	T16	24	1125.0	27000.0	53	C1
5	T16	48	425.0	20400.0	99	C1



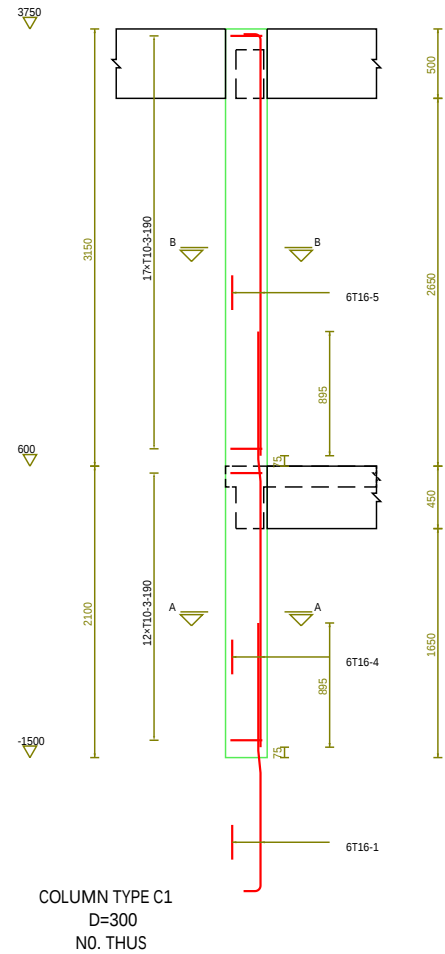
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T16	1.580	10000.0	15.80
Grand Total			36.16

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	18	2500.0	45000.0	34	C1
2	T16	18	2500.0	45000.0	11	C1
3	T16	17	1125.0	19125.0	76	C1
4	T16	51	425.0	21675.0	99	C1



Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.832	17000.0	14.14
T16	1.580	12400.0	19.74
Grand Total			33.88

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	20	2500.0	50000.0	11	C1
2	T16	37	425.0	15725.0	99	C1
3	T16	29	1125.0	32625.0	53	C1



Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.832	11175.0	9.39
T16	1.580	48000.0	75.74
Grand Total			85.13

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	6	2500.0	15000.0	34	C1
2	T16	29	1075.0	31175.0	15	C1
3	T16	6	10500.0	63000.0	24	C1
4	T16	6	10500.0	63000.0	11	C1

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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RELIGIOUS AFFAIRS

PROJECT

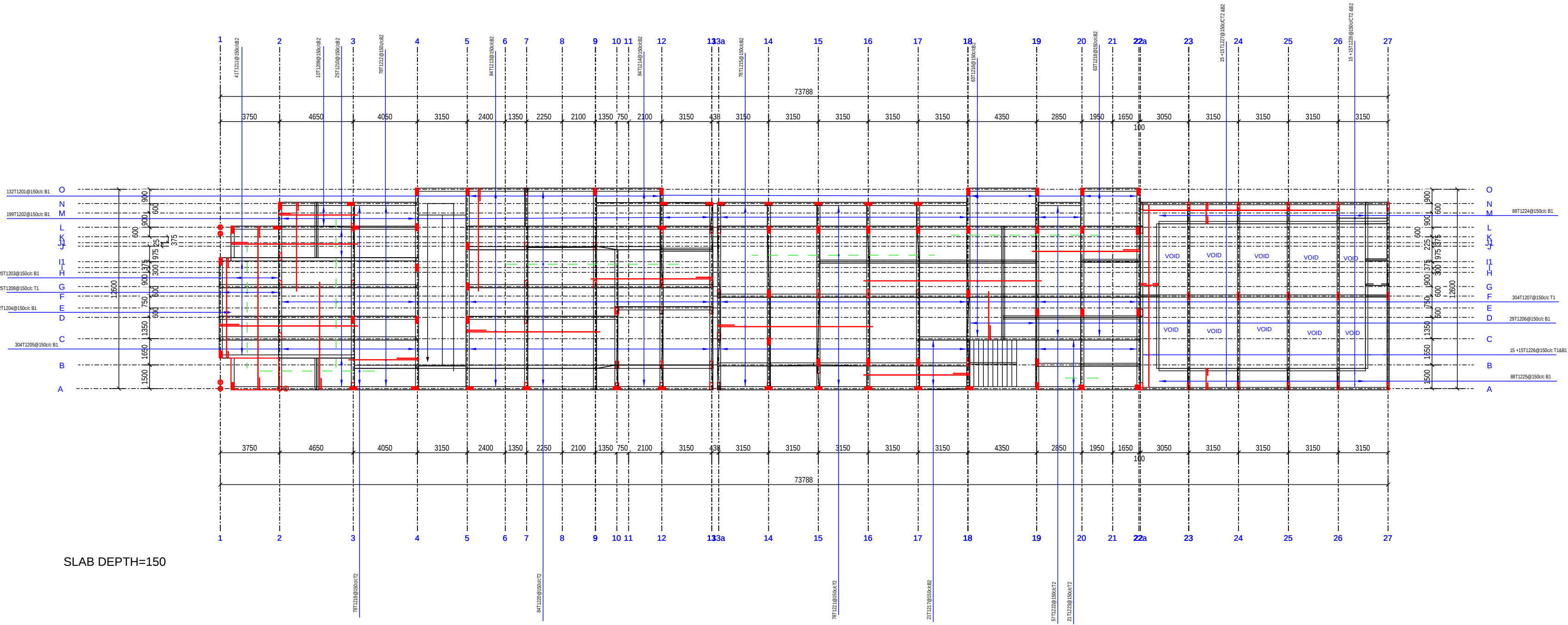
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

COLUMN DETAILS

Sheet No.	Discipline	Project Phase
S07	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



SLAB DETAILING 1:200

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

SLAB DETAILING

Sheet No.	Discipline	Project Phase
S09	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	

Mark	Grade	Dia [mm]	Total number	Cutting length [mm]	Total length [mm]	Total mass [kg]	Bending shape [mm]
①	T	12	132	7400	976800	867.22	
②	T	12	199	6200	1233800	1095.39	
③	T	12	20	11945	238900	212.1	
④	T	12	2	7512	15023	13.34	
⑤	T	12	304	7610	2313439	2053.9	
⑥	T	12	29	4052	117499	104.32	
⑦	T	12	304	9371	2848926	2529.32	
⑧	T	12	25	7697	192418	170.83	
⑨	T	12	10	5875	58750	52.16	
⑩	T	12	25	9100	227500	201.98	
⑪	T	12	41	10100	414100	367.64	
⑫	T	12	78	5850	456300	405.11	
⑬	T	12	84	9800	823200	730.85	
⑭	T	12	84	8850	743400	660	
⑮	T	12	78	10950	854101	758.28	
⑯	T	12	63	11250	708750	629.24	
⑰	T	12	21	7850	164850	146.36	
⑱	T	12	63	7950	500850	444.66	
⑲	T	12	1	7250	7250	6.44	
⑳	T	12	84	10850	911400	809.15	
㉑	T	12	78	11550	900900	799.83	
㉒	T	12	57	9300	530100	470.63	
㉓	T	12	21	2100	44100	39.15	
㉔	T	12	88	2374	208939	185.5	
㉕	T	12	88	2374	208939	185.5	
㉖	T	12	30	11550	346500	307.63	
㉗	T	12	30	12350	370500	328.94	
㉘	T	12	30	3075	92250	81.9	
Total mass = 14657 kg							

Grade	Dia [mm]	Total length [mm]	Total mass [kg]
T	12	16509486	14657.35

GENERAL

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REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

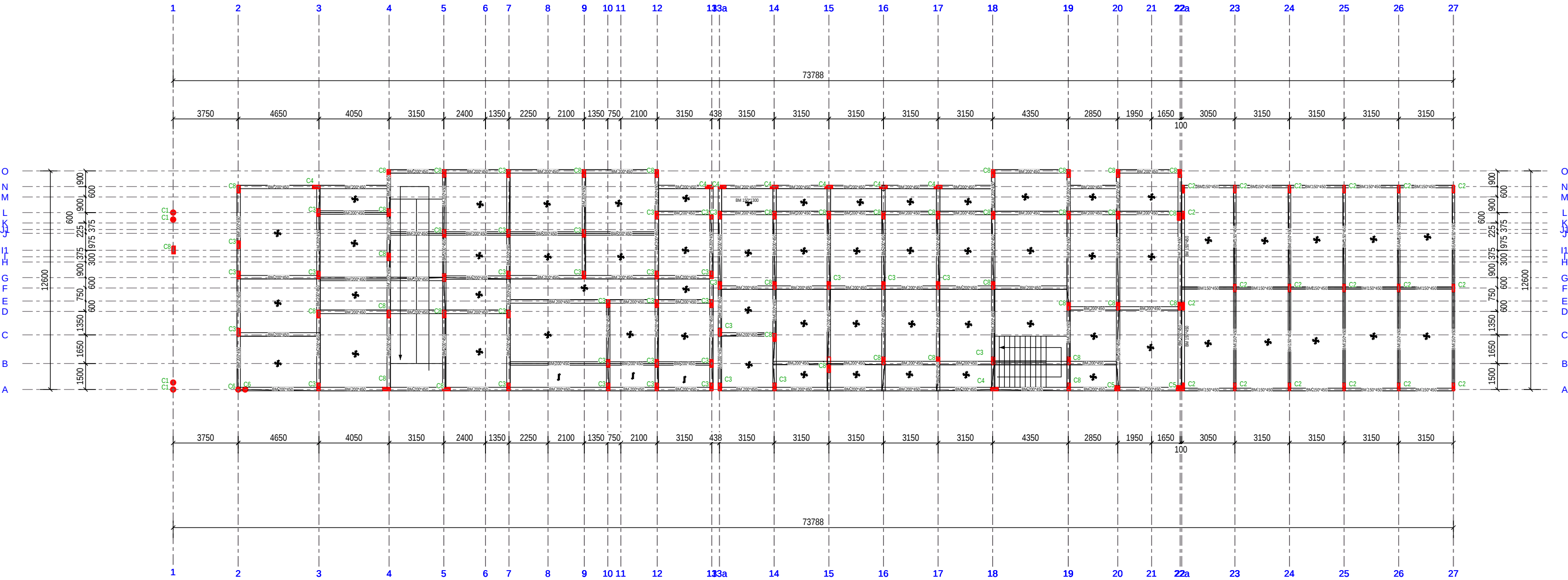
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

SLAB DETAILING BBS

Sheet No.	Discipline	Project Phase
S10	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



SLAB DEPTH=150

GROUND FLOOR-GA 1:200

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

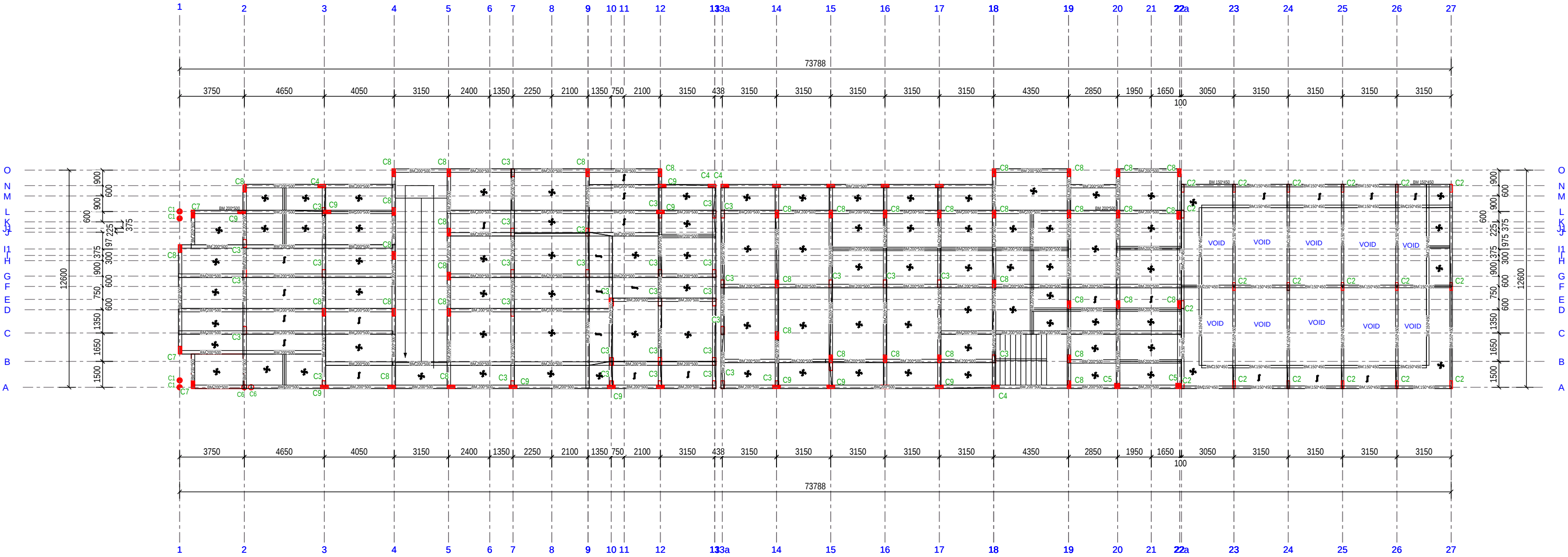
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

GROUND FLOOR-GA

Sheet No.	Discipline	Project Phase
S11	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FIRST FLOOR-GA 1:200

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials



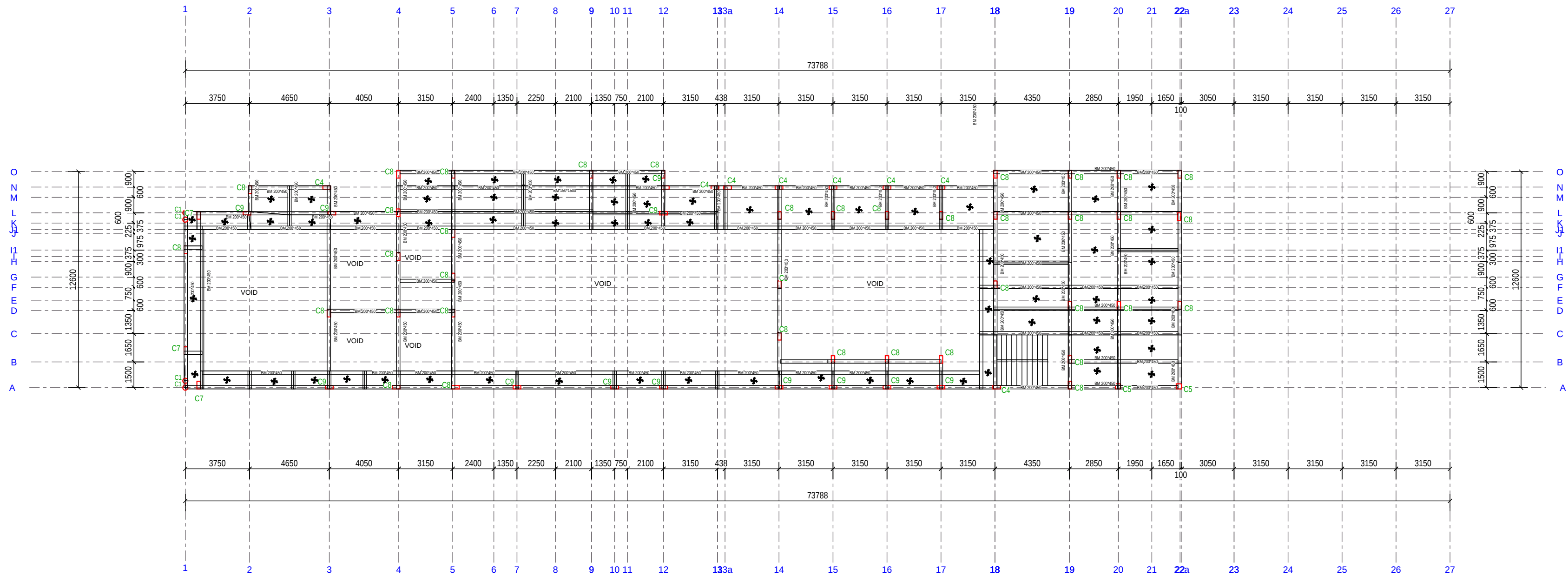
CLIENT
MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE
FIRST FLOOR-GA

Sheet No.	Discipline	Project Phase
S12	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



ROOF LEVEL-GA 1:200

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

ROOF LEVEL-GA

Sheet No.	Discipline	Project Phase
S13	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

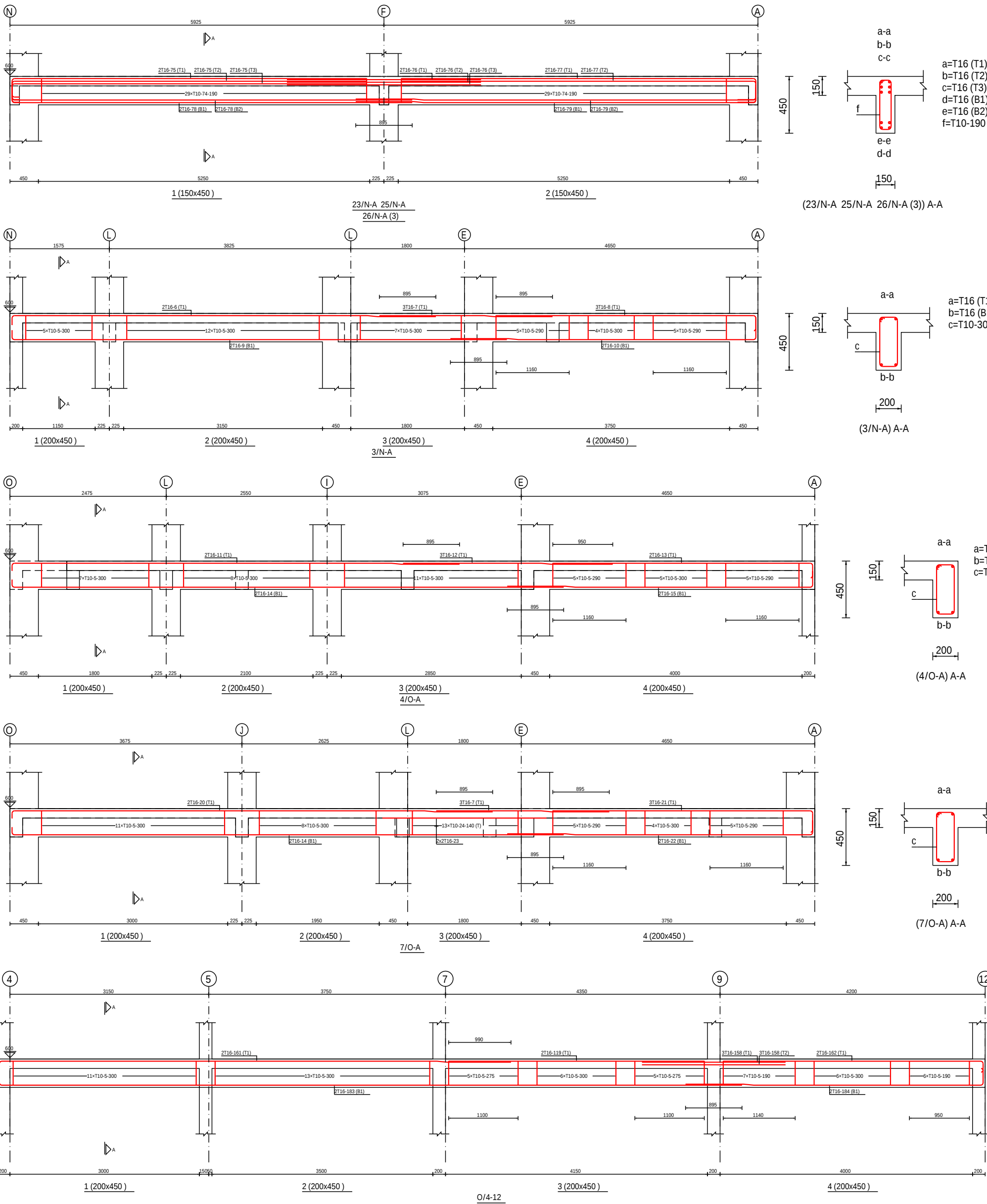
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S14	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GF BEAM DETAILS

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
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Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE

GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S15	STRS	DESIGN

DESIGNED BY :

FEDEEMS

DRAWN BY :

FEDEEMS

CHECKED BY :

B.F.A

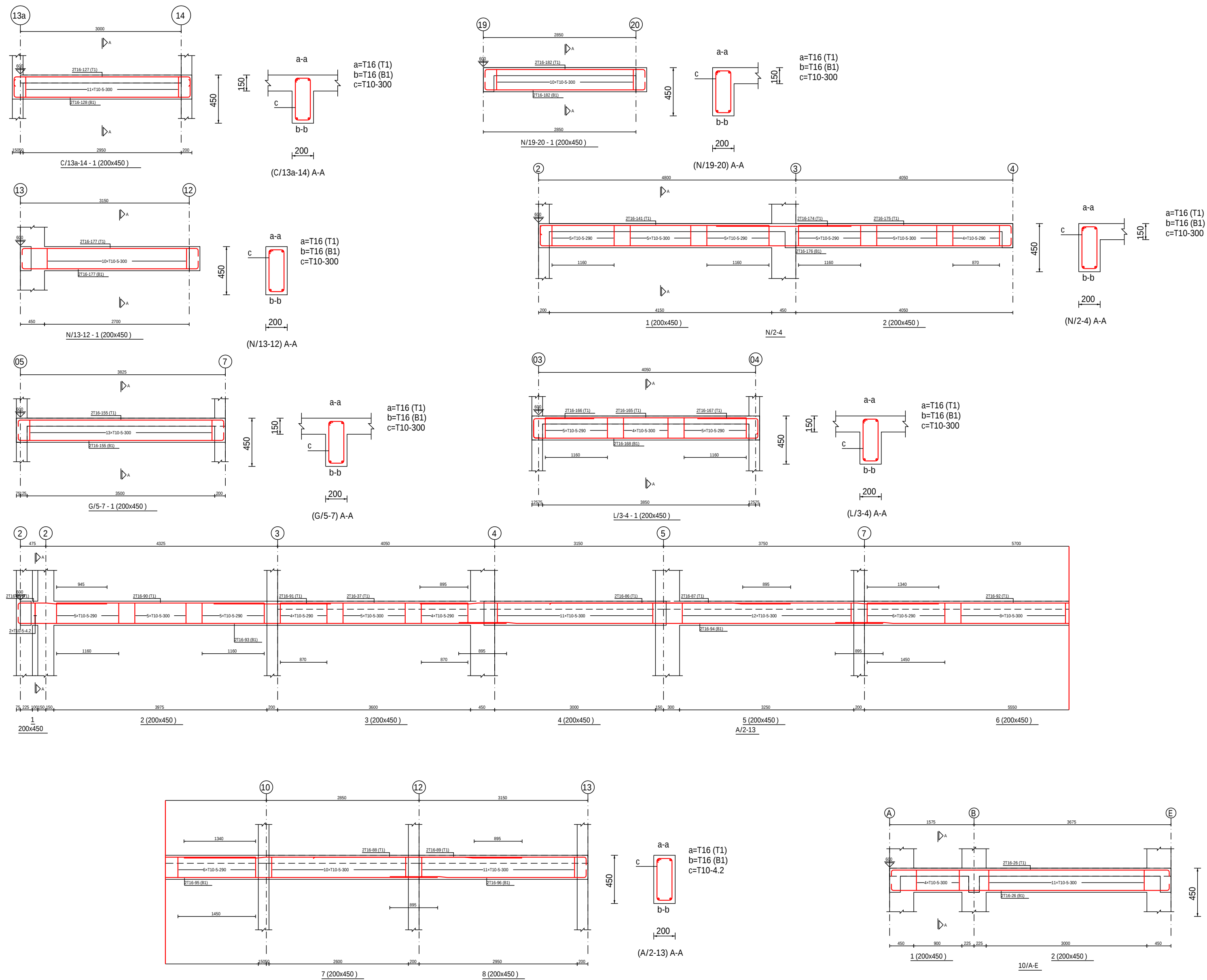
DATE :

MAY , 2025

SCALE :

1:200

PROJECT ID :



GF BEAM DETAILS

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

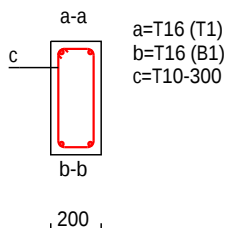
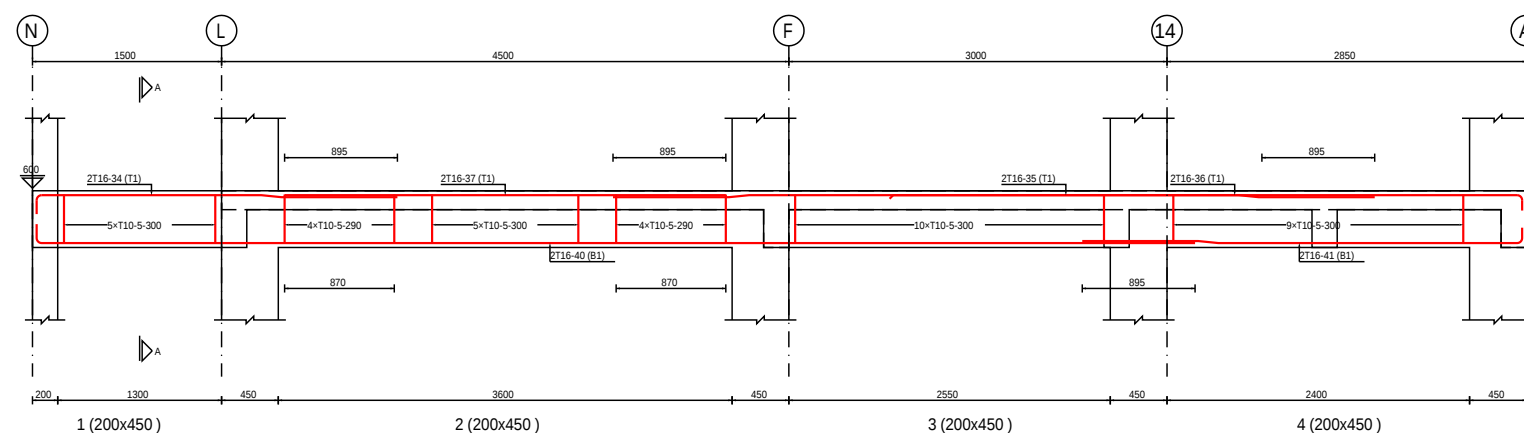
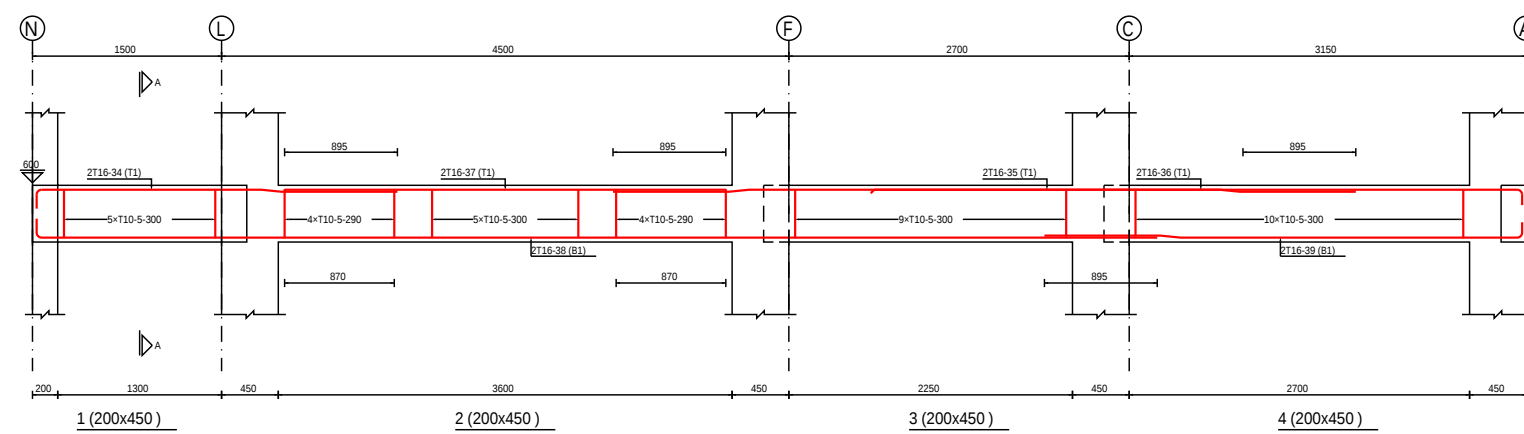
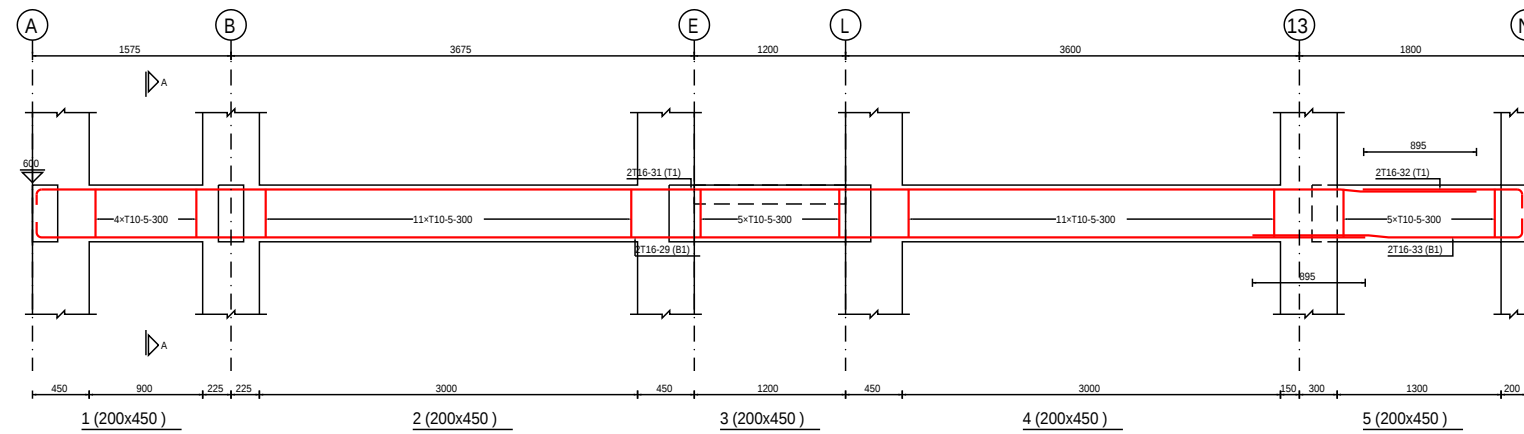
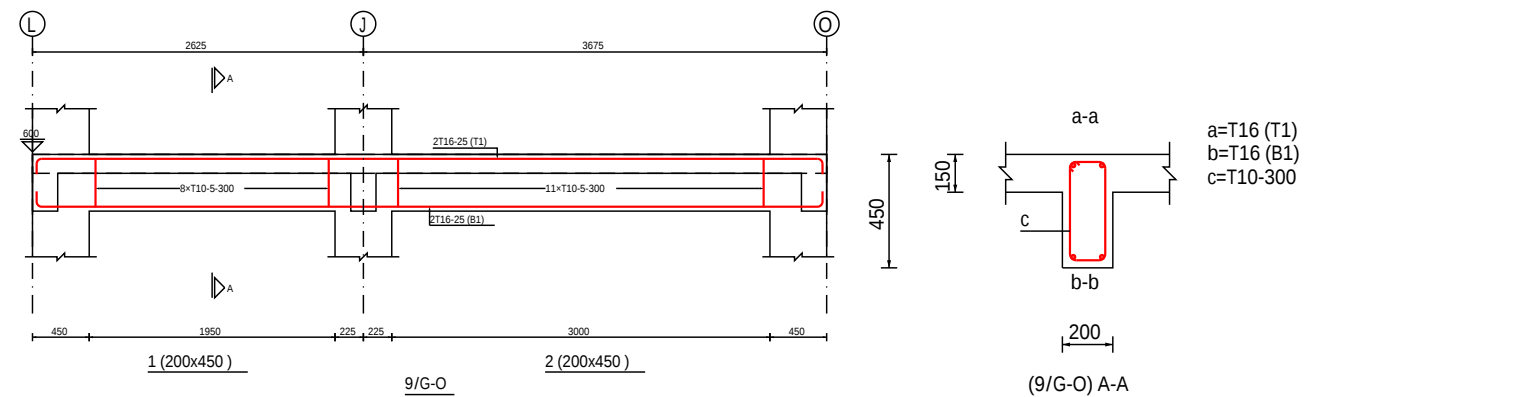
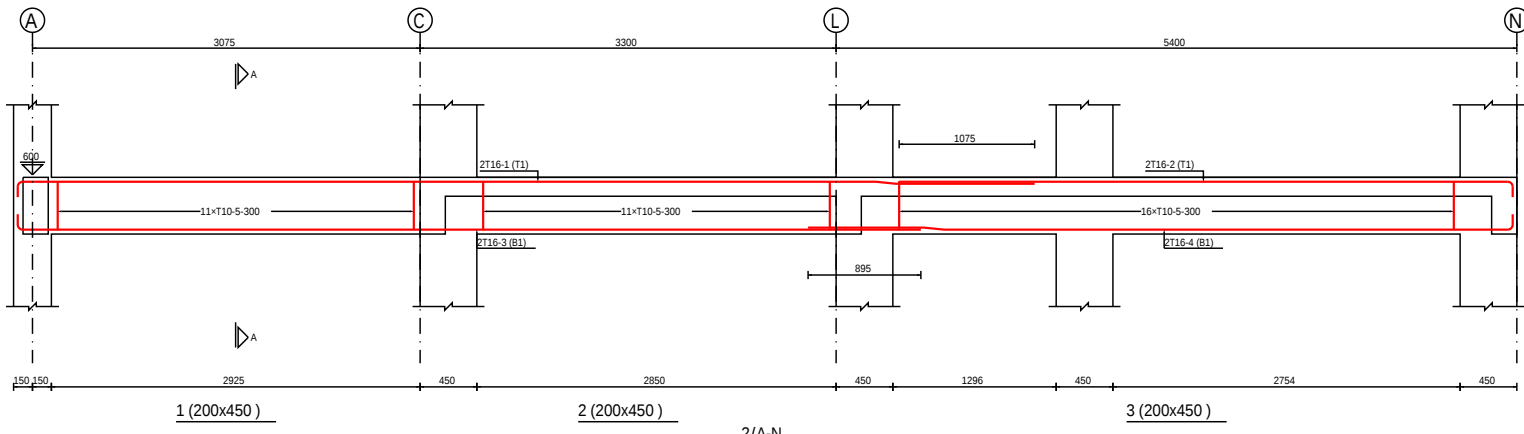
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

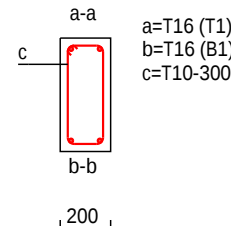
GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S16	STRS	DESIGN

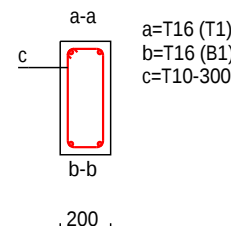
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



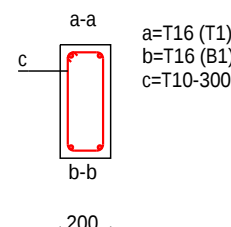
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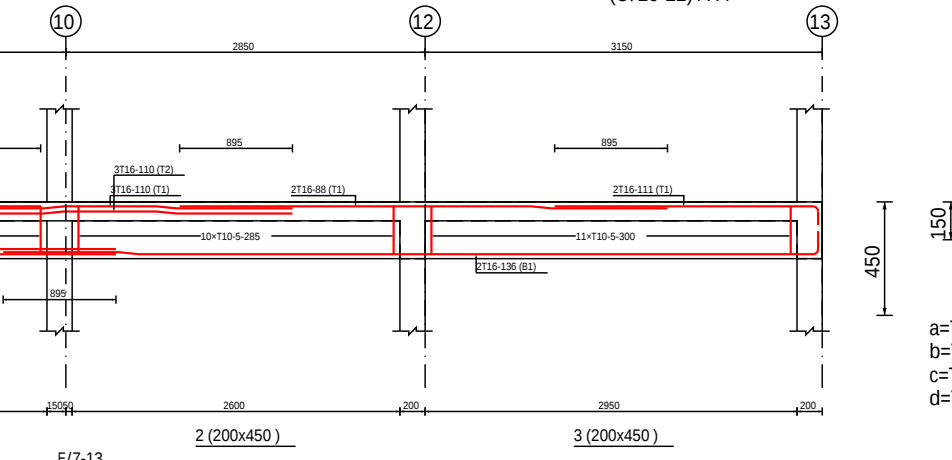
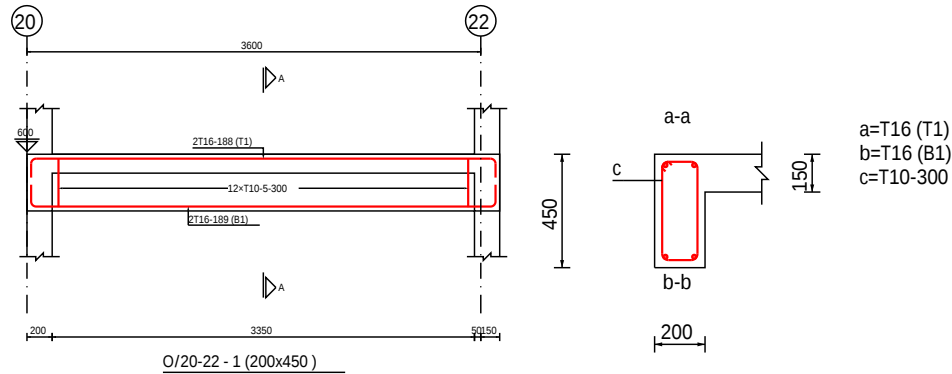
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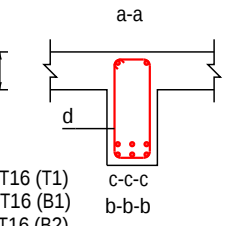
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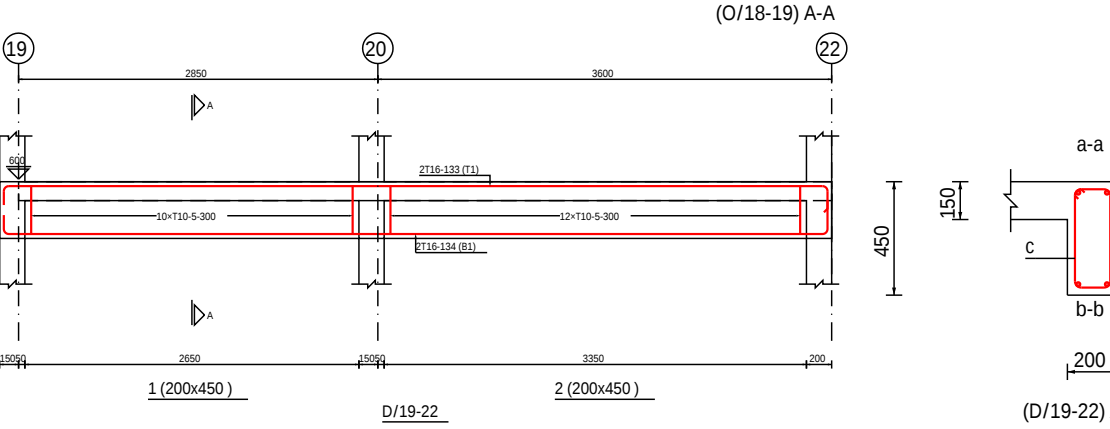
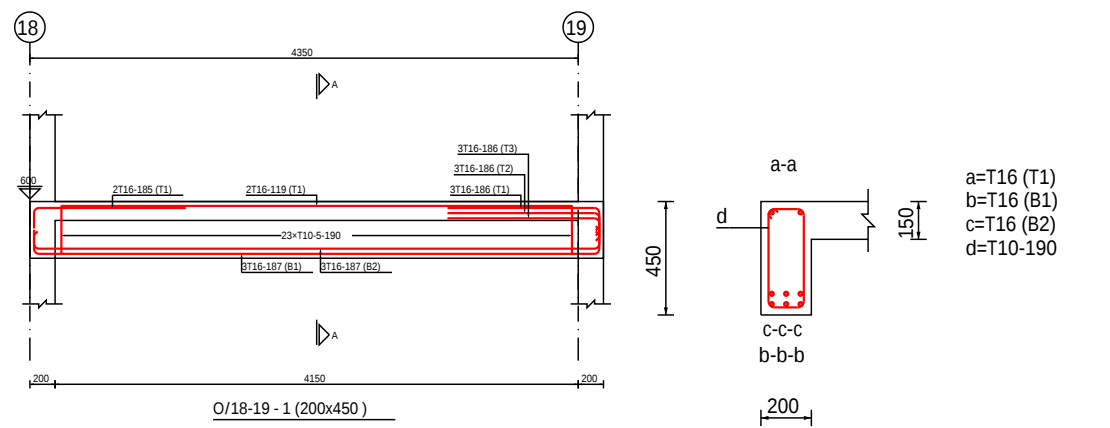
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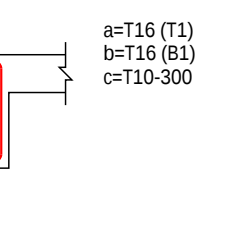
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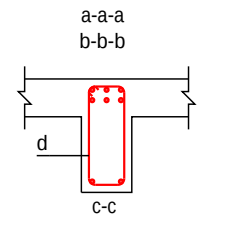
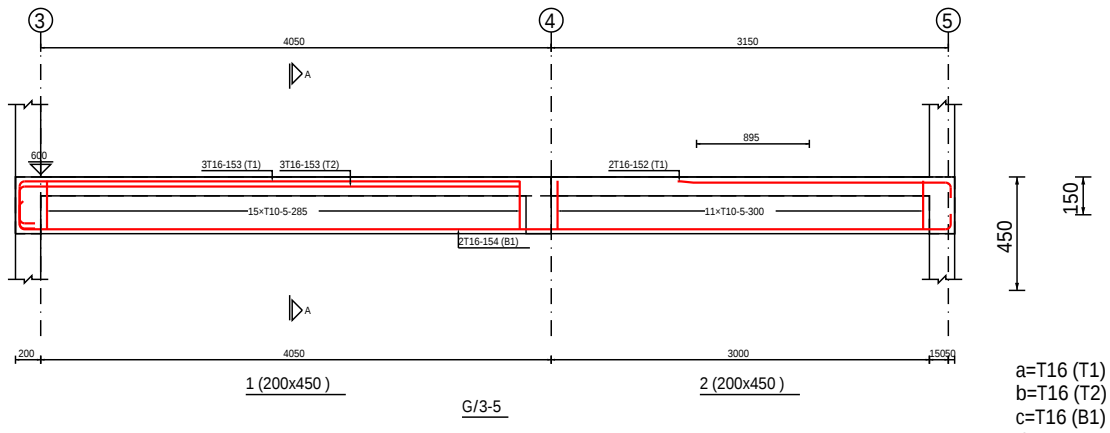
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(O/18-19) A-A

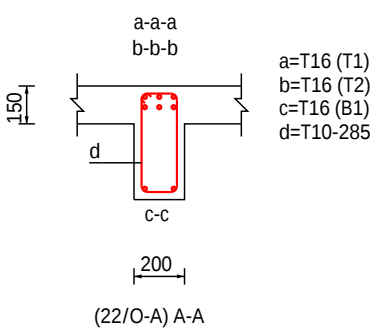
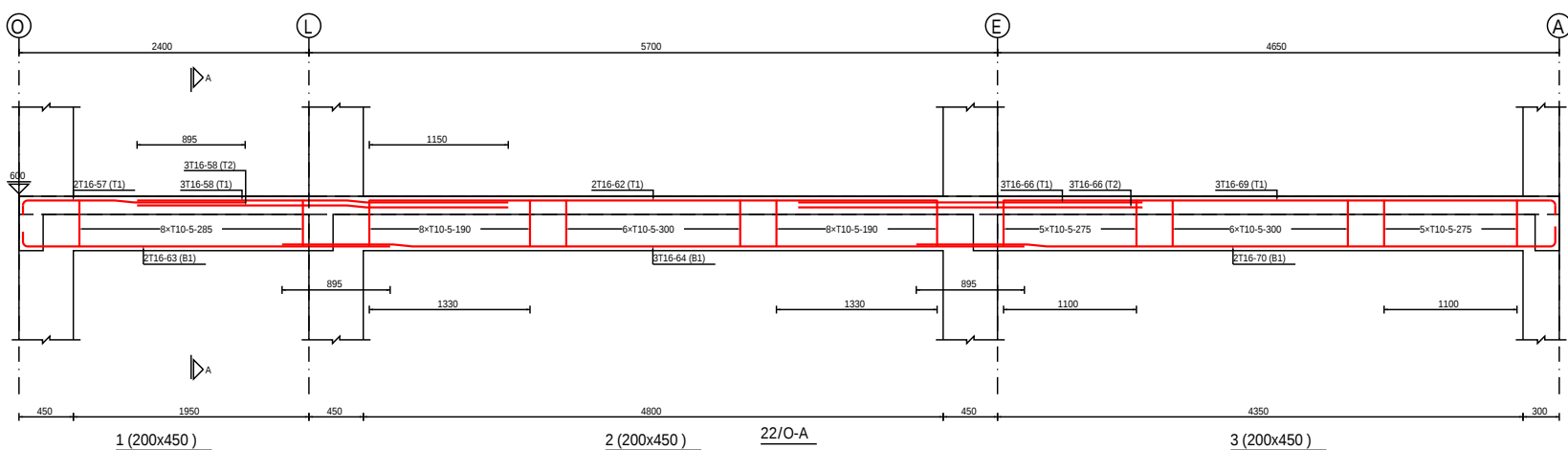
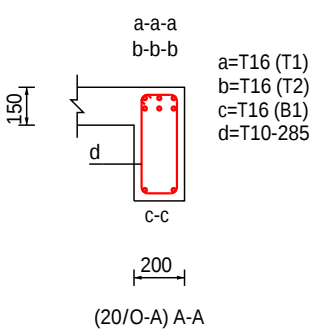
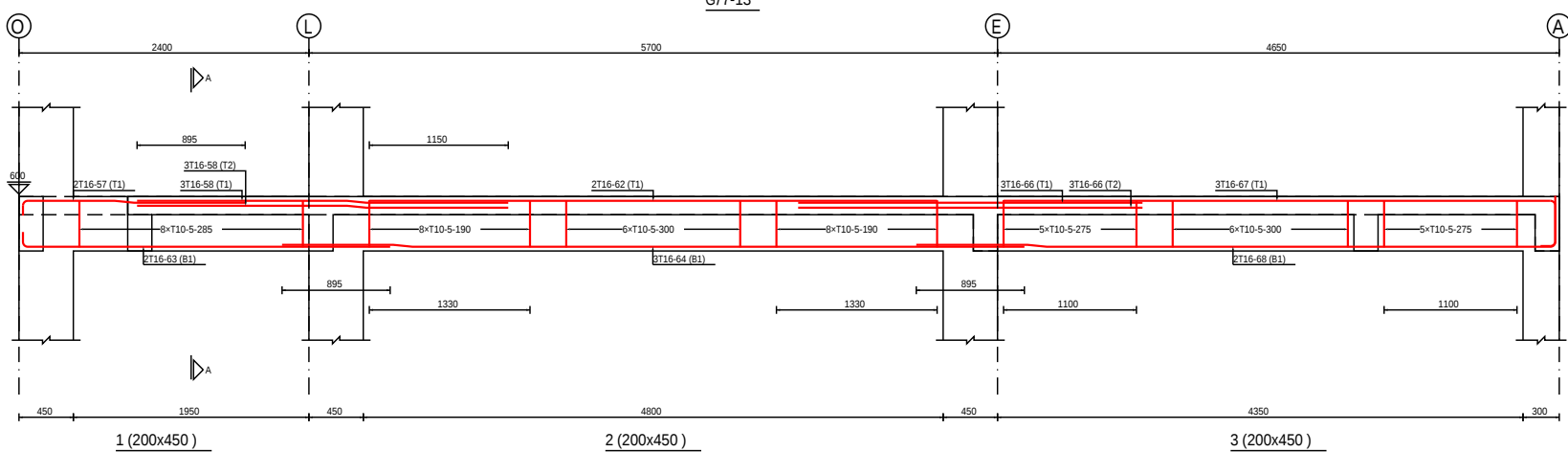
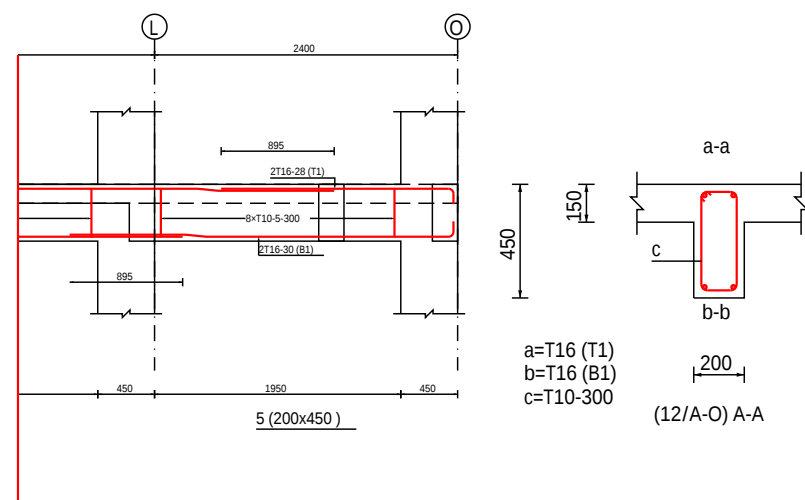
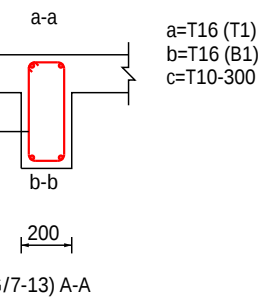
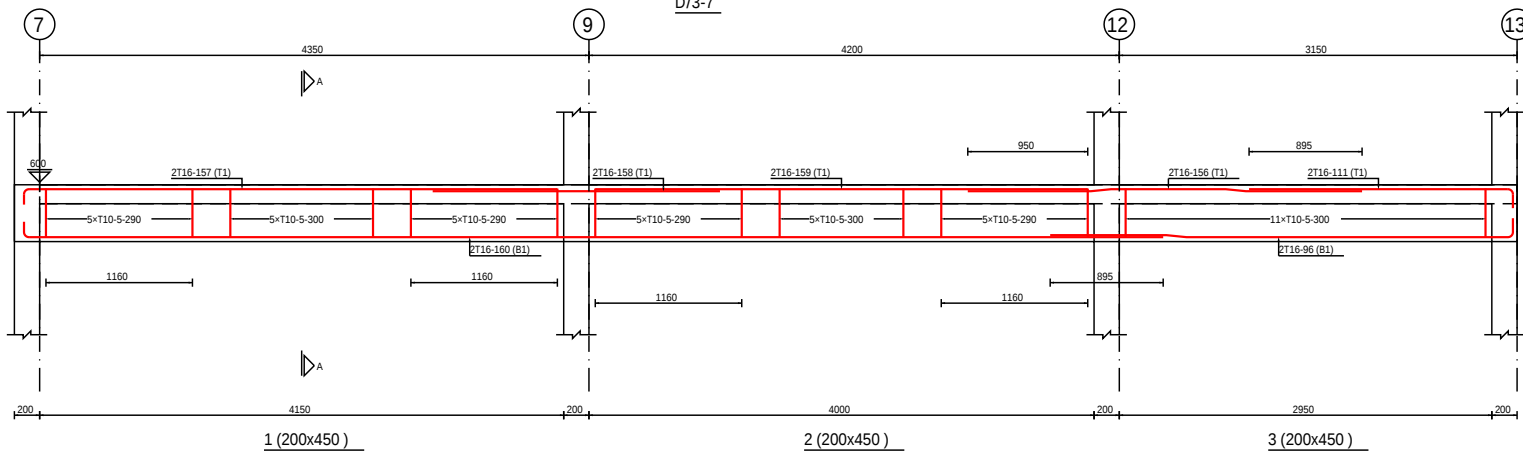
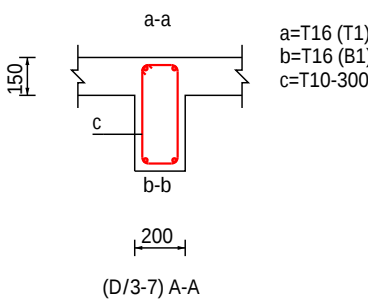
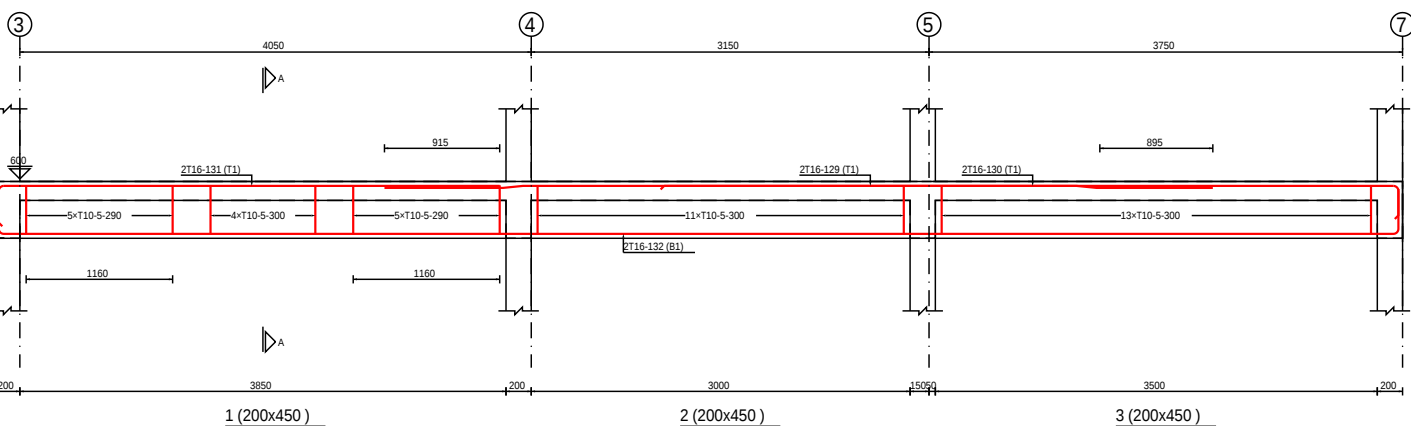
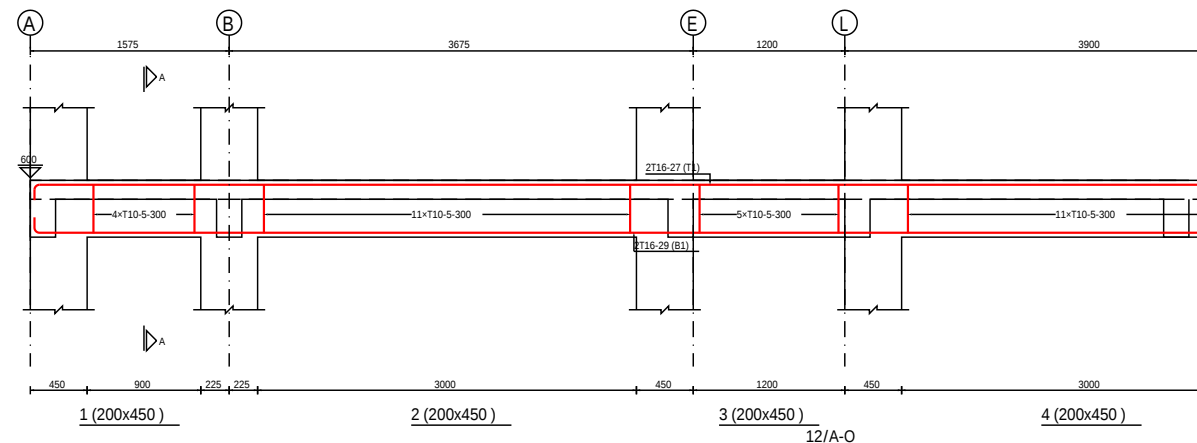
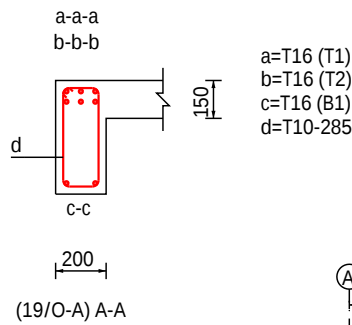
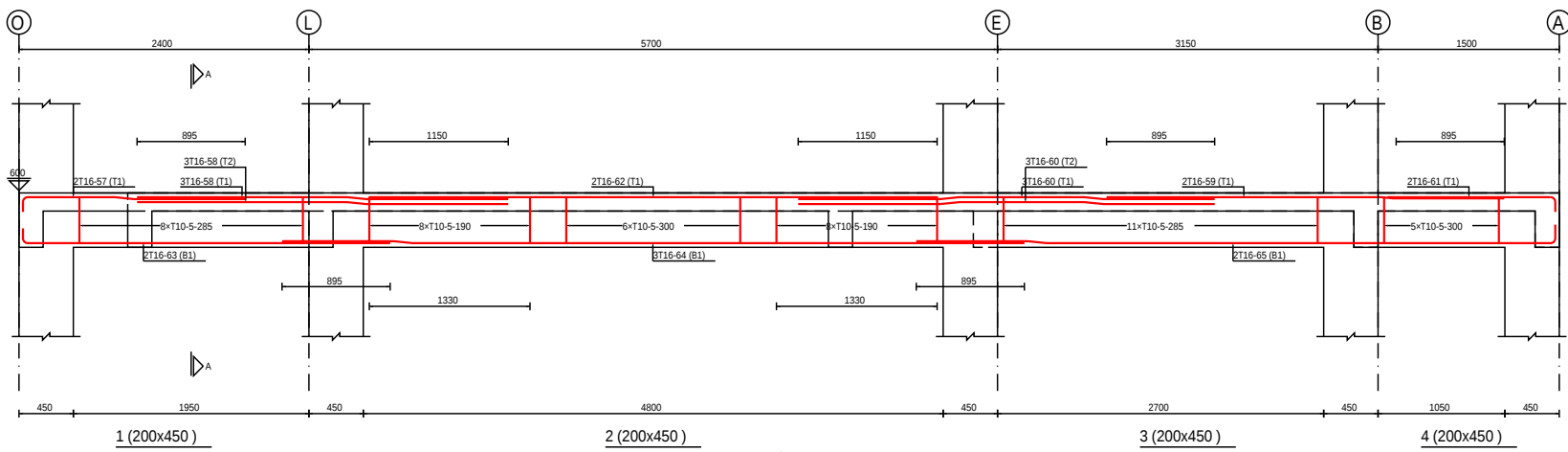


(D/19-22) A-A



(G/3-5) A-A

GF BEAM DETAILS



GF BEAM DETAILS

GENERAL

Notes

- Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S17	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

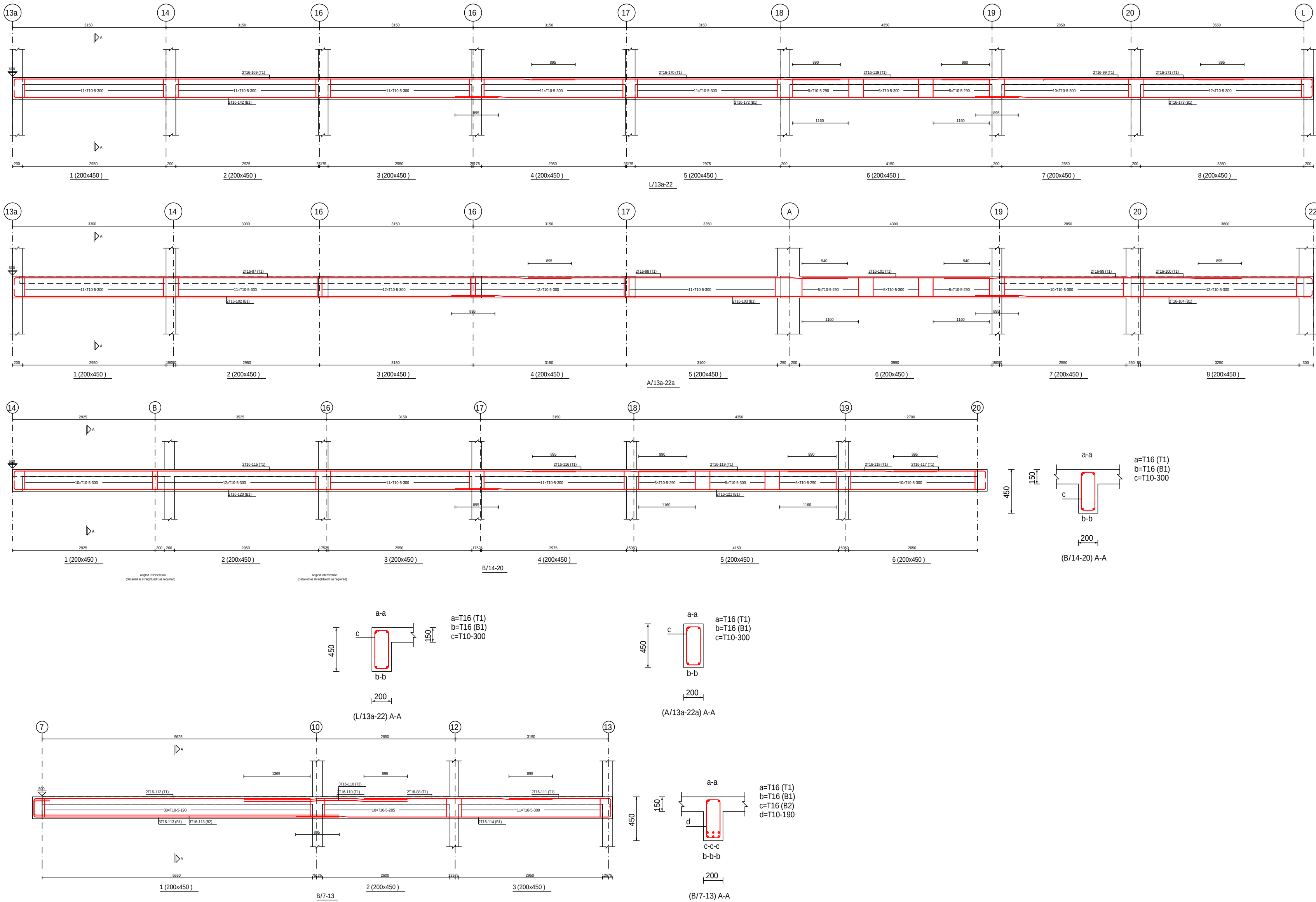
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S18	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GF BEAM DETAILS

Notes

REVISION

Rev	Date	Description	Initials
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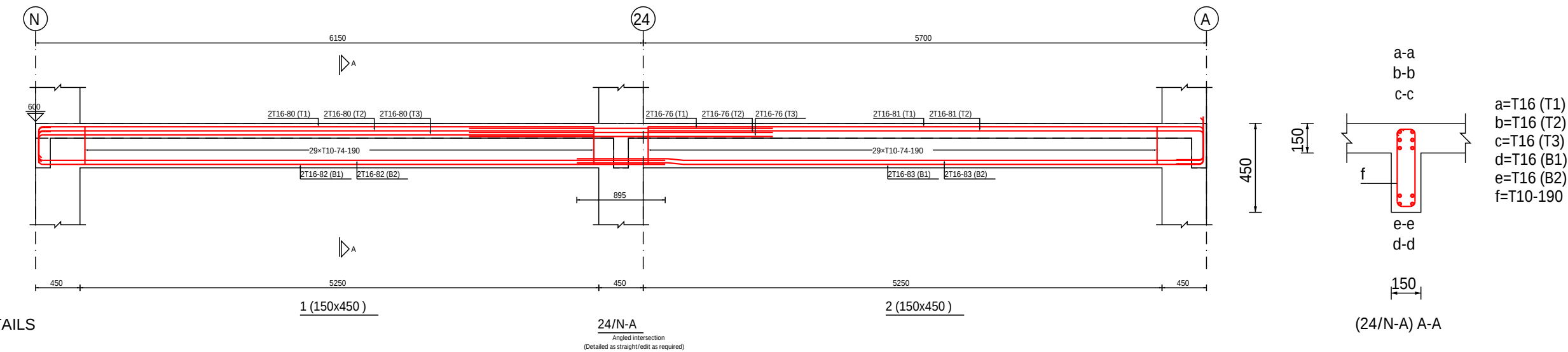


PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE _____
GF-BEAMS DETAILS

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

GF-BEAMS DETAILS

Sheet No. Discipline Project Phase

S20 STRS DESIGN

DESIGNED BY : FEDEEMS

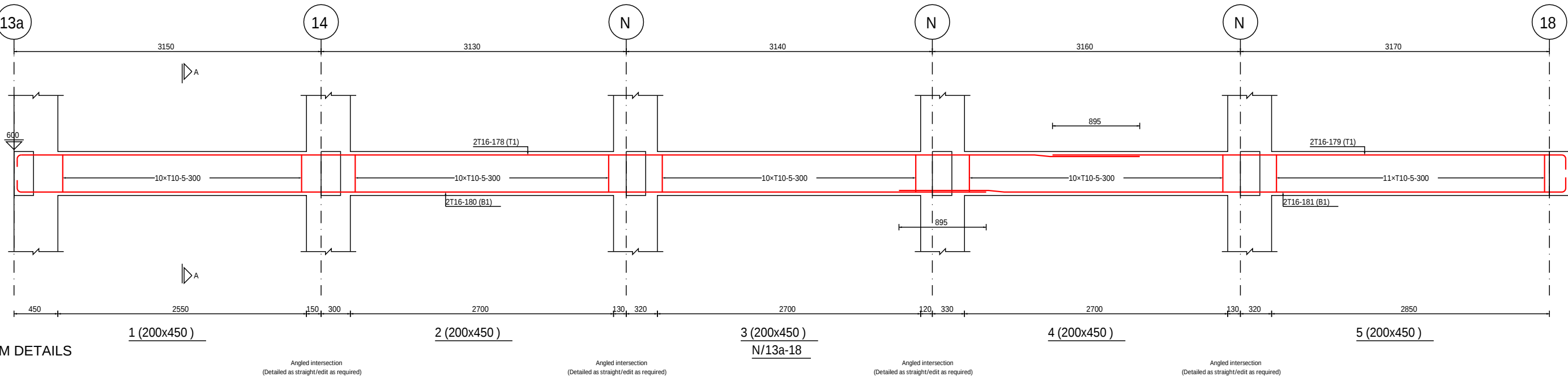
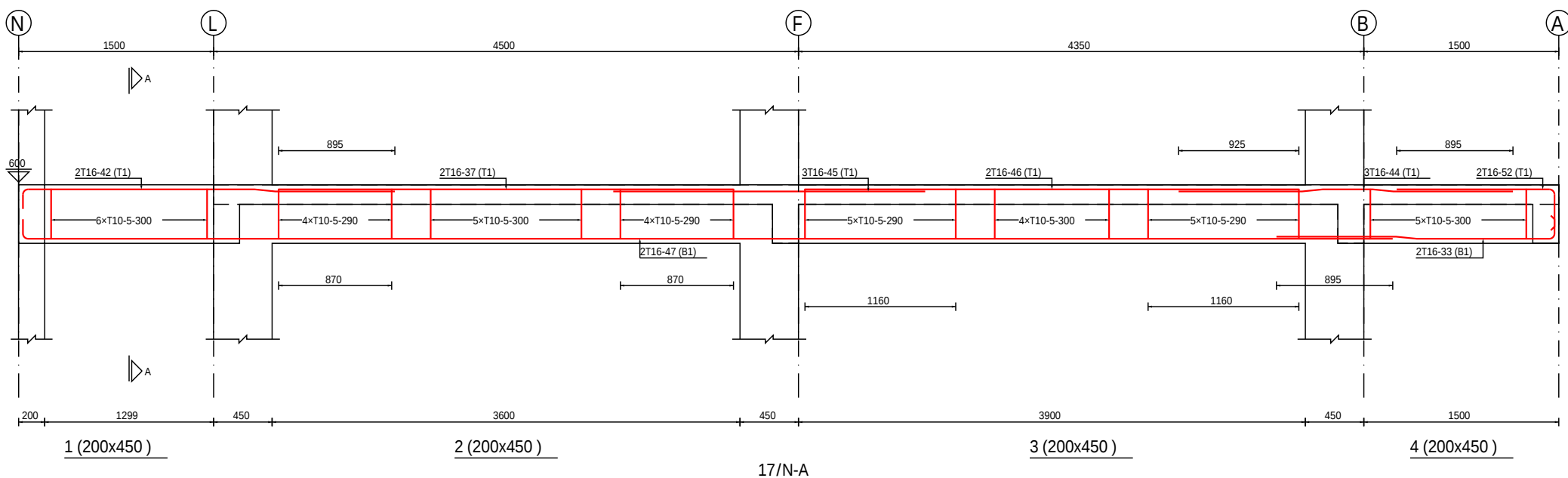
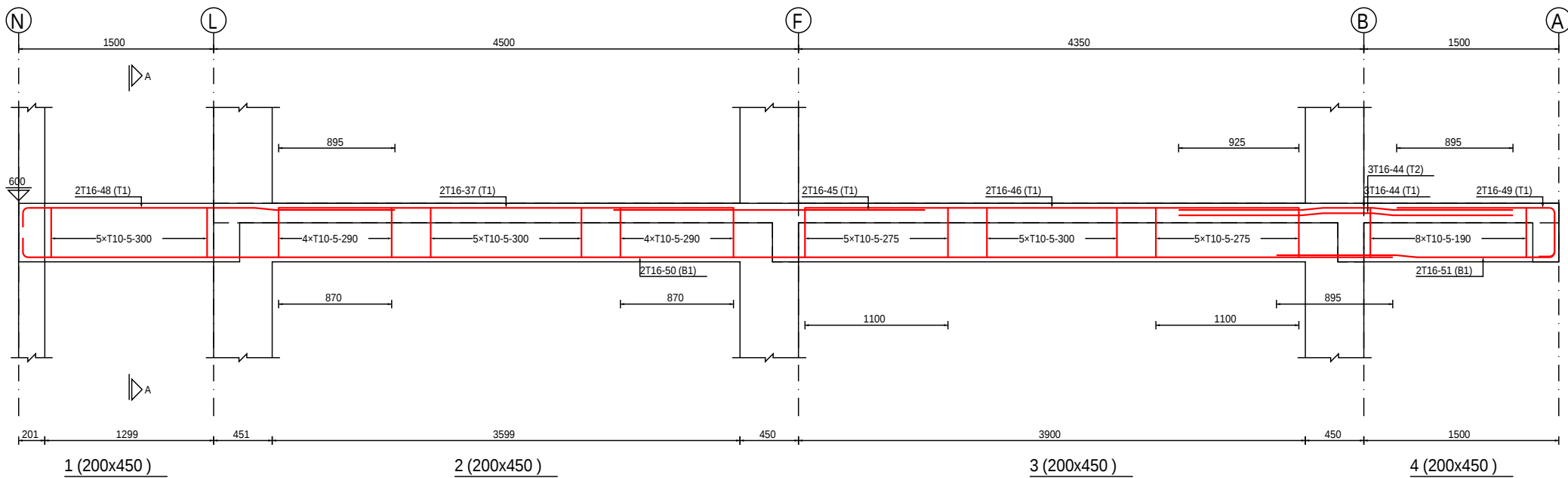
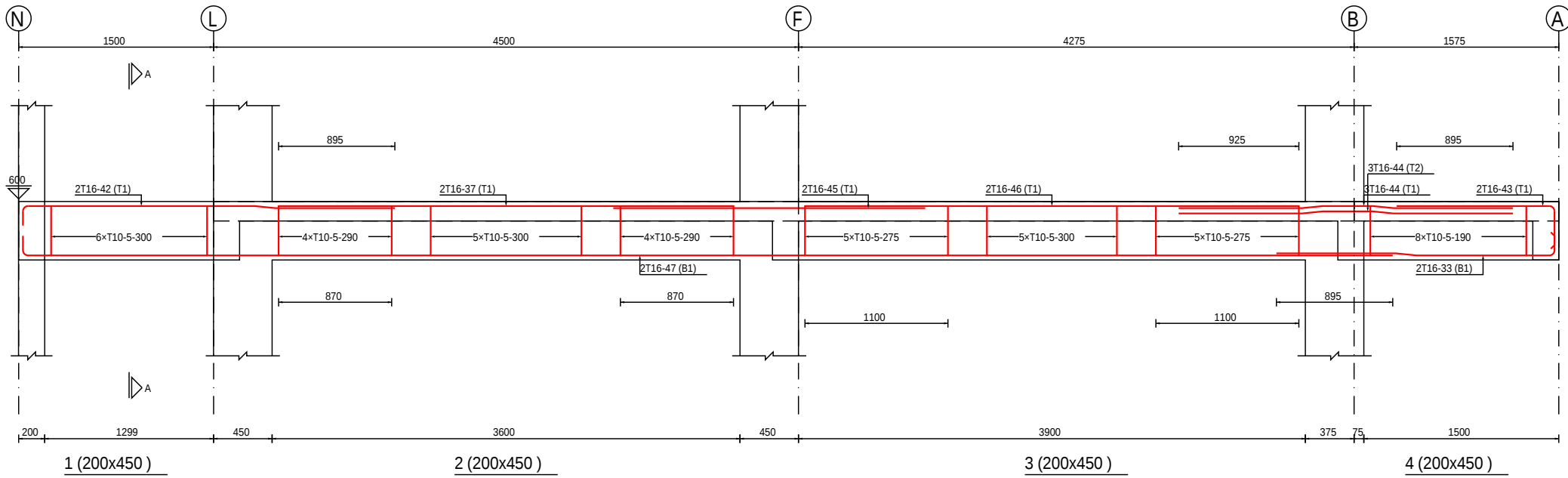
DRAWN BY : FEDEEMS

CHECKED BY : B.F.A

DATE : MAY , 2025

SCALE : 1:200

PROJECT ID :



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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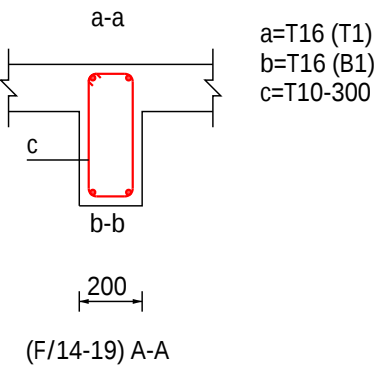
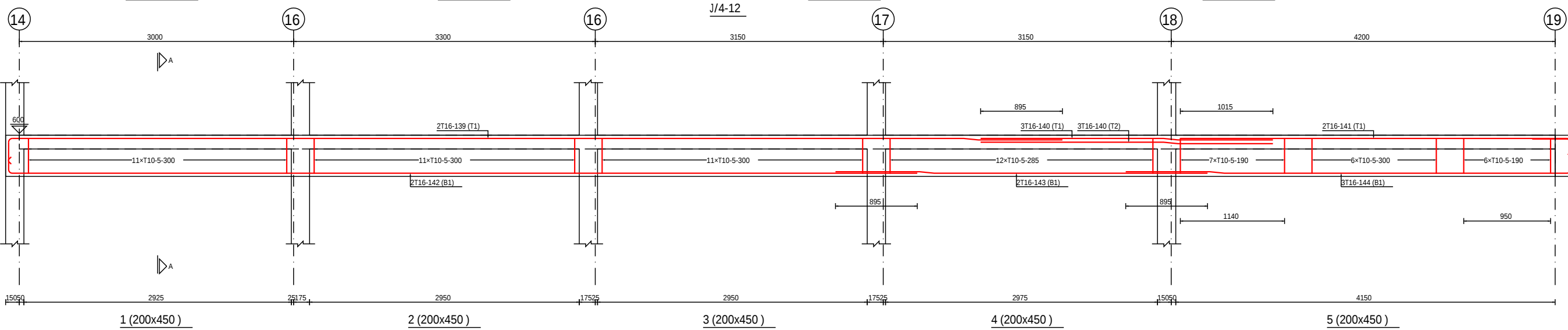
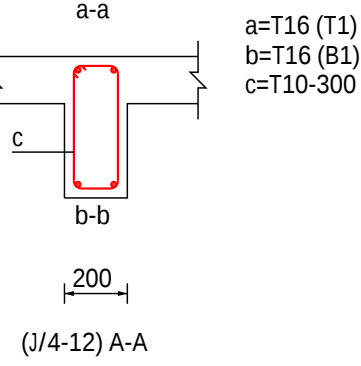
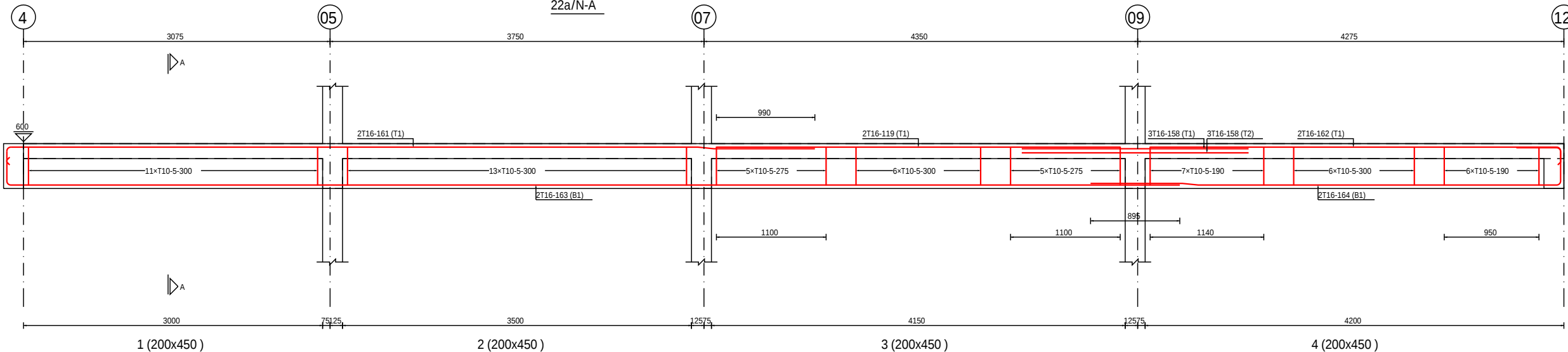
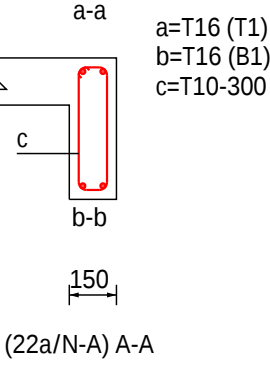
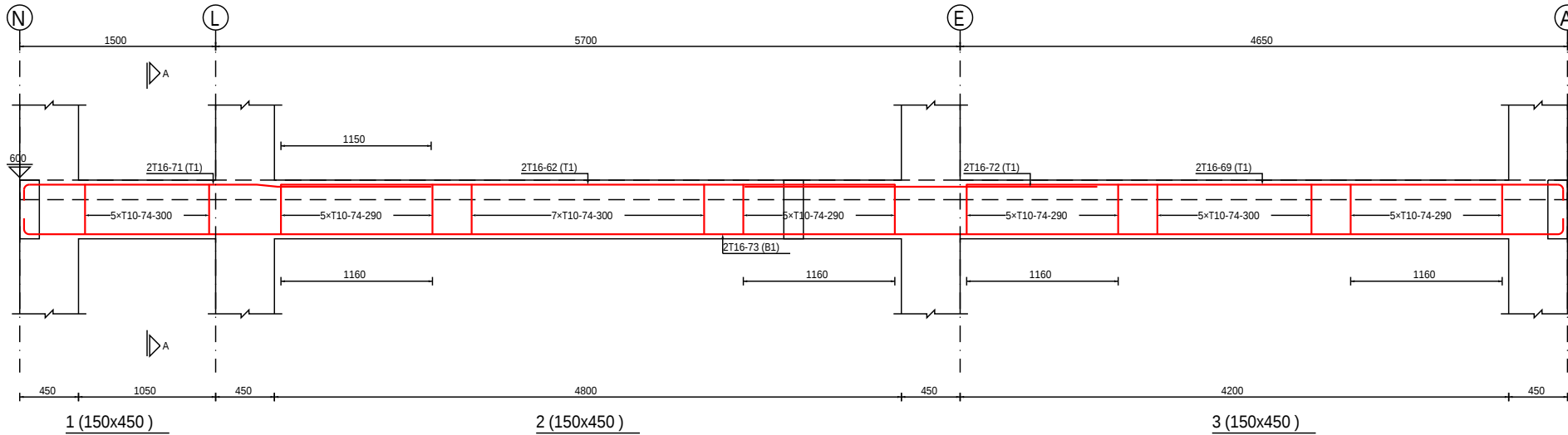
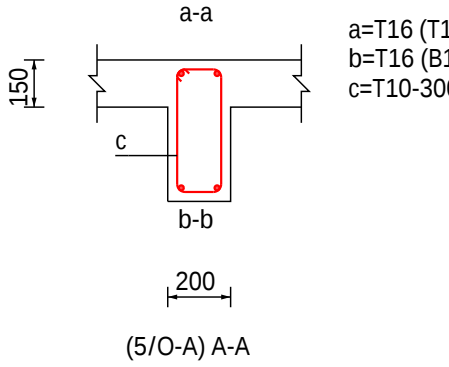
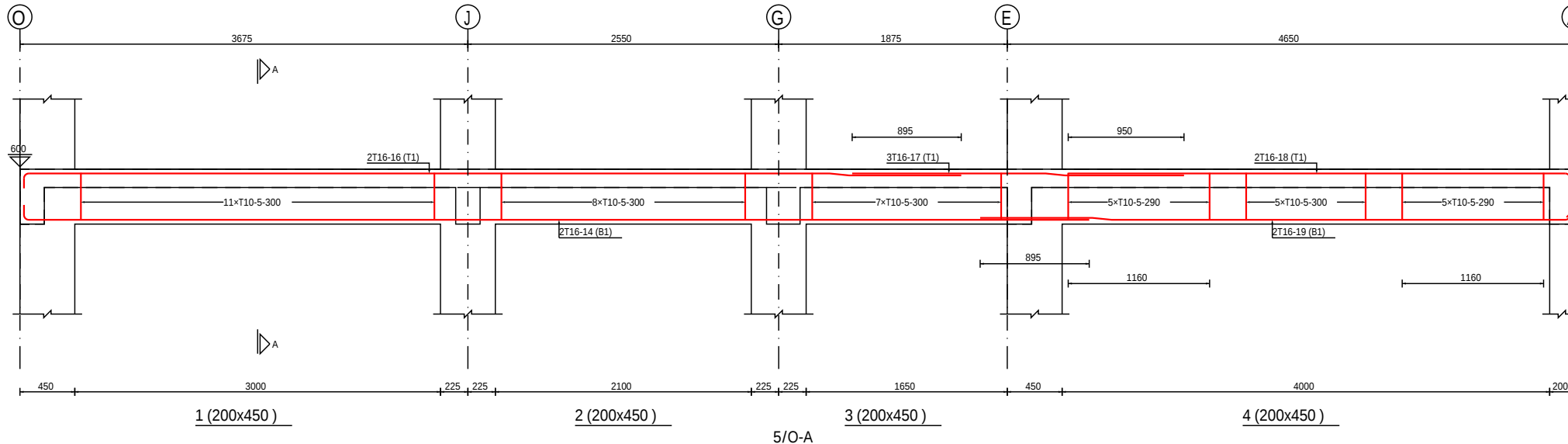
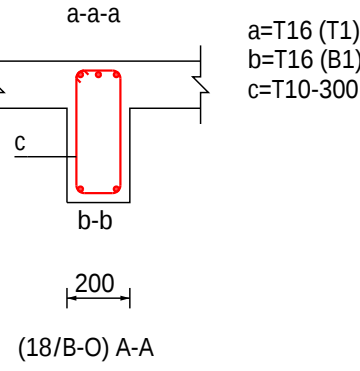
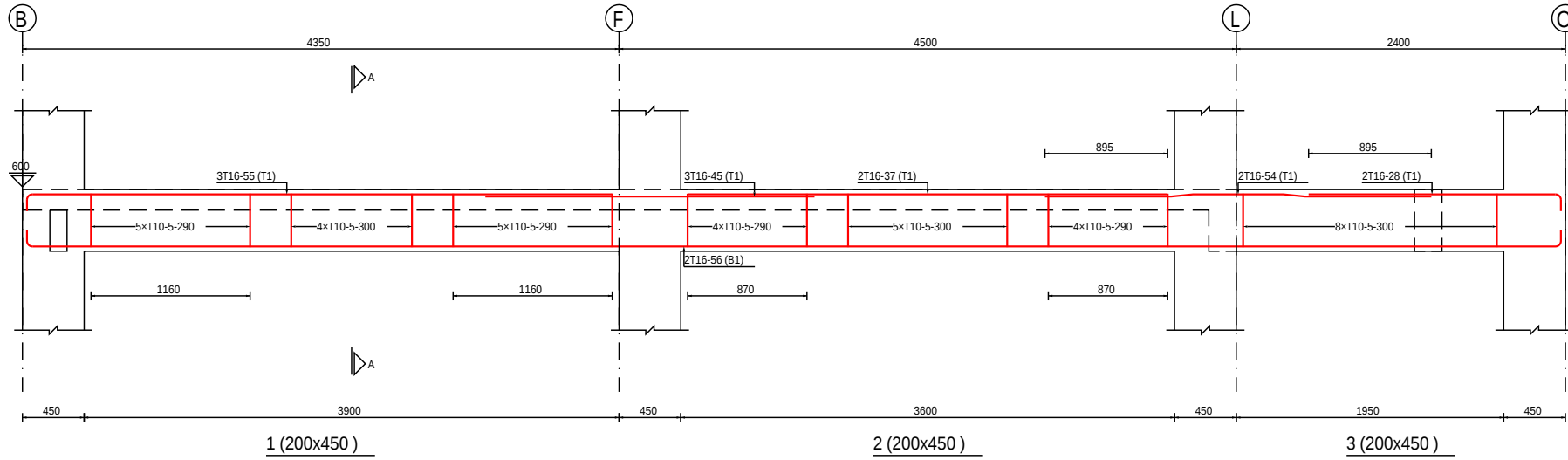
CLIENT
MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE
GF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S21	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GF BBS

Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.620	2.809E+06	1741.58
T16	1.580	3.679E+06	5813.52
Grand Total			7555.11

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	2	8200.0	16400.0	34	2/A-N
2	T16	2	5000.0	10000.0	11	2/A-N
3	T16	2	7300.0	14600.0	11	2/A-N
4	T16	2	5700.0	11400.0	34	2/A-N
5	T10	1676	1300.0	2.179E+06	51	2/A-N, 3/N-A, 4/O-A, 5/O-A, 7/O-A, 9/G-O, 10/A-E, 12/A-O, 13/A-N, 13a/N-A, 14/N-A, 15/N-A, 16/N-A, 17/N-A, 18/B-A, 18/B-O, 19/O-A, 20/O-A, 22/O-A, A/2-13, A/13a-22a, B/7-13, B/14-20, C/2-3, C/13a-14, D/3-7, D/19-22, E/7-13, F/13a-14, F/14-19, G/2-3, G/3-5, G/5-7, G/7-13, J/4-12, U/3-4, U/13-12, U/13a-22, N/2-4, N/13-12, N/13a-18, N/19-20, O/4-12, O/18-19, O/20-22
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7	T16	6	2750.0	16500.0	26	3/N-A, 7/O-A
8	T16	3	4350.0	13050.0	99	3/N-A
9	T16	2	8000.0	16000.0	99	3/N-A
10	T16	2	5200.0	10400.0	99	3/N-A
11	T16	2	7200.0	14400.0	34	4/O-A
12	T16	3	3350.0	10050.0	26	4/O-A
13	T16	2	4350.0	8700.0	99	4/O-A
14	T16	6	8850.0	53100.0	11	4/O-A, 5/O-A, 7/O-A
15	T16	2	5500.0	11000.0	99	4/O-A
16	T16	2	7800.0	15600.0	34	5/O-A
17	T16	3	2750.0	8250.0	26	5/O-A
18	T16	2	4450.0	8900.0	99	5/O-A
19	T16	2	5450.0	10900.0	99	5/O-A
20	T16	2	7750.0	15500.0	34	7/O-A
21	T16	3	4450.0	13350.0	99	7/O-A
22	T16	2	5250.0	10500.0	99	7/O-A
23	T16	4	2600.0	10400.0	0	7/O-A
24	T10	13	1400.0	18200.0	63	7/O-A
25	T16	4	6450.0	25800.0	21	9/G-O
26	T16	4	5400.0	21600.0	21	10/A-E
27	T16	2	11850.0	23700.0	34	12/A-O
28	T16	4	1950.0	7800.0	11	12/A-O, 18/B-O
29	T16	4	10650.0	42600.0	11	12/A-O, 13/A-N
30	T16	2	3150.0	6300.0	34	12/A-O
31	T16	2	11550.0	23100.0	34	13/A-N
32	T16	2	1400.0	2800.0	99	13/A-N
33	T16	6	2300.0	13800.0	99	13/A-N, 15/N-A, 17/N-A
34	T16	4	3000.0	12000.0	99	13a/N-A, 14/N-A
35	T16	4	3850.0	15400.0	26	13a/N-A, 14/N-A
36	T16	4	7350.0	29400.0	34	13a/N-A, 14/N-A
37	T16	14	3500.0	49000.0	0	13a/N-A, 14/N-A, 15/N-A, 16/N-A, 17/N-A, 18/B-O, A/2-13
38	T16	2	9050.0	18100.0	99	13a/N-A
39	T16	2	3900.0	7800.0	34	13a/N-A
40	T16	2	9350.0	18700.0	99	14/N-A
41	T16	2	3600.0	7200.0	34	14/N-A
42	T16	4	3000.0	12000.0	99	15/N-A, 17/N-A
43	T16	2	1500.0	3000.0	99	15/N-A
44	T16	15	2600.0	39000.0	46	15/N-A, 16/N-A, 17/N-A
45	T16	10	2400.0	24000.0	0	15/N-A, 16/N-A, 17/N-A, 18/B-O
46	T16	6	3800.0	22800.0	0	15/N-A, 16/N-A, 17/N-A
47	T16	4	10700.0	42800.0	99	15/N-A, 17/N-A
48	T16	2	3000.0	6000.0	99	16/N-A
49	T16	2	1700.0	3400.0	21	16/N-A
50	T16	2	10700.0	21400.0	99	16/N-A
51	T16	2	2500.0	5000.0	99	16/N-A
52	T16	2	1500.0	3000.0	99	17/N-A
53	T16	4	2500.0	10000.0	99	18/B-A
54	T16	2	2850.0	5700.0	46	18/B-O
55	T16	3	4750.0	14250.0	0	18/B-O
56	T16	2	11800.0	23600.0	11	18/B-O
57	T16	6	1950.0	11700.0	34	19/O-A, 20/O-A, 22/O-A
58	T16	18	3100.0	55800.0	26	19/O-A, 20/O-A, 22/O-A
59	T16	2	3300.0	6600.0	26	19/O-A
60	T16	6	3450.0	20700.0	46	19/O-A
61	T16	2	1500.0	3000.0	11	19/O-A
62	T16	8	4700.0	37600.0	0	19/O-A, 20/O-A, 22/O-A, 22a/N-A
63	T16	6	3150.0	18900.0	11	19/O-A, 20/O-A, 22/O-A
64	T16	9	6150.0	55350.0	26	19/O-A, 20/O-A, 22/O-A
65	T16	2	5450.0	10900.0	99	19/O-A
66	T16	12	2850.0	34200.0	0	20/O-A, 22/O-A
67	T16	3	5050.0	15150.0	21	20/O-A
68	T16	2	5700.0	11400.0	99	20/O-A
69	T16	5	4700.0	23500.0	11	22/O-A, 22a/N-A
70	T16	2	5450.0	10900.0	99	22/O-A
71	T16	2	3250.0	6500.0	34	22a/N-A
72	T16	2	2700.0	5400.0	0	22a/N-A
73	T16	6	12000.0	72000.0	21	22a/N-A, 27/N-A
74	T10	510	1200.0	612000.0	51	22a/N-A, 23/N-A, 24/N-A, 25/N-A, 26/N-A, 27/N-A, A/22a-27, F/27-22a, N/27-22a
75	T16	18	6050.0	108900.0	21	23/N-A, 25/N-A, 26/N-A
76	T16	30	3100.0	93000.0	0	23/N-A, 24/N-A, 25/N-A, 26/N-A, 27/N-A
77	T16	12	6250.0	75000.0	21	23/N-A, 25/N-A, 26/N-A
78	T16	12	6950.0	83400.0	99	23/N-A, 25/N-A, 26/N-A
79	T16	12	6800.0	81600.0	99	23/N-A, 25/N-A, 26/N-A
80	T16	6	5900.0	35400.0	99	24/N-A
81	T16	4	6200.0	24800.0	21	24/N-A
82	T16	4	6800.0	27200.0	21	24/N-A
83	T16	4	6800.0	27200.0	99	24/N-A
84	T16	10	5750.0	57500.0	11	27/N-A
85	T16	2	1800.0	3600.0	34	A/2-13
86	T16	2	4500.0	9000.0	26	A/2-13
87	T16	2	9700.0	19400.0	46	A/2-13
88	T16	6	3900.0	23400.0	26	A/2-13, B/7-13, E/7-13
89	T16	2	7650.0	15300.0	99	A/2-13
90	T16	2	3900.0	7800.0	0	A/2-13
91	T16	2	2200.0	4400.0	0	A/2-13
92	T16	2	5450.0	10900.0	0	A/2-13
93	T16	2	9250.0	18500.0	11	A/2-13
94	T16	2	7950.0	15900.0	26	A/2-13
95	T16	2	9450.0	18900.0	26	A/2-13
96	T16	4	3800.0	15200.0	99	A/2-13, G/7-13
97	T16	2	11600.0	23200.0	99	A/13a-22a
98	T16	2	6600.0	13200.0	26	A/13a-22a
99	T16	4	4100.0	16400.0	26	A/13a-22a, U/13a-22

100	T16	2	7700.0	15400.0	34	A/13a-22a
101	T16	2	3850.0	7700.0	0	A/13a-22a
102	T16	2	10000.0	20000.0	99	A/13a-22a
103	T16	2	11650.0	23300.0	26	A/13a-22a
104	T16	2	7050.0	14100.0	34	A/13a-22a
105	T16	2	11550.0	23100.0	99	A/22a-27
106	T16	2	5400.0	10800.0	99	A/22a-27
107	T16	4	3650.0	14600.0	99	A/22a-27
108	T16	6	10350.0	62100.0	26	A/22a-27, F/27-22a, N/27-22a
109	T16	4	3850.0	15400.0	99	A/22a-27
110	T16	12	3400.0	40800.0	46	B/7-13, E/7-13
111	T16	6	2250.0	13500.0	99	B/7-13, E/7-13, G/7-13
112	T16	4	6050.0	24200.0	99	B/7-13, E/7-13
113	T16	6	6900.0	41400.0	21	B/7-13
114	T16	2	6700.0	13400.0	99	B/7-13
115	T16	2	11700.0	23400.0	99	B/14-20
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121	T16	2	11050.0	22100.0	99	B/14-20
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123	T16	2	2100.0	4200.0	21	C/2-3
124	T16	6	1400.0	8400.0	11	C/2-3
125	T16	6	4950.0	29700.0	99	C/2-3
126	T16	6	1600.0	9600.0	99	C/2-3
127	T16	6	3600.0	21600.0	21	C/13a-14, L/13-12
128	T16	2	3900.0	7800.0	21	C/13a-14
129	T16	2	4350.0	8700.0	26	D/3-7
130	T16	2	8250.0	16500.0	99	D/3-7
131	T16	2	4250.0	8500.0	99	D/3-7
132	T16	2	11850.0	23700.0	21	D/3-7
133	T16	2	6850.0	13700.0	21	D/19-22
134	T16	2	7150.0	14300.0	21	D/19-22
135	T16	6	6900.0	41400.0	21	E/7-13
136	T16	2	6650.0	13300.0	99	E/7-13
137	T16	2	3850.0	7700.0	21	F/13a-14
138	T16	2	3700.0	7400.0	21	F/13a-14
139	T16	2	11800.0	23600.0	99	F/14-19
140	T16	6	3200.0	19200.0	26	F/14-19
141	T16	4	4450.0	17800.0	99	F/14-19, N/2-4
142	T16	4	10100.0	40400.0	99	F/14-19, L/13a-22
143	T16	2	4100.0	8200.0	26	F/14-19
144	T16	3	5650.0	16950.0	99	F/14-19
145	T16	4	11700.0	46800.0	99	F/27-22a, N/27-22a
146	T16	4	5250.0	21000.0	99	F/27-22a, N/27-22a
147	T16	8	3850.0	30800.0	99	F/27-22a, N/27-22a
148	T16	8	3650.0	29200.0	99	F/27-22a, N/27-22a
149	T16	2	1600.0	3200.0	99	G/2-3
150	T16	6	1700.0	10200.0	21	G/2-3
151	T16	6	5250.0	31500.0	21	G/2-3
152	T16	2	1050.0	2100.0	26	G/3-5
153	T16	6	4400.0	26400.0	21	G/3-5
154	T16	2	8300.0	16600.0	99	G/3-5
155	T16	4	5300.0	21200.0	0	G/5-7
156	T16	2	3150.0	6300.0	46	G/7-13
157	T16	2	5000.0	10000.0	0	G/7-13
158	T16	14	2300.0	32200.0	0	G/7-13, J/4-12, O/4-12
159	T16	2	3900.0	7800.0	0	G/7-13
160	T16	2	9800.0	19600.0	0	G/7-13
161	T16	4	8250.0	33000.0	99	J/4-12, O/4-12
162	T16	4	4300.0	17200.0	99	J/4-12, O/4-12
163	T16	2	12000.0	24000.0	99	J/4-12
164	T16	2	5550.0	11100.0	99	J/4-12
165	T16	2	3750.0	7500.0	0	L/3-4
166	T16	2	1600.0	3200.0	21	L/3-4
167	T16	2	1400.0	2800.0	99	L/3-4
168	T16	2	5100.0	10200.0	21	L/3-4
169	T16	2	11650.0	23300.0	99	L/13a-22
170	T16	2	6350.0	12700.0	26	L/13a-22
171	T16	2	7750.0	15500.0	99	L/13a-22
172	T16	2	11600.0	23200.0	26	L/13a-22
173	T16	2	7350.0	14700.0	99	L/13a-22
174	T16	2	2550.0	5100.0	0	N/2-4
175	T16	2	4150.0	8300.0	99	N/2-4
176	T16	2	9300.0	18600.0	21	N/2-4
177	T16	4	3550.0	14200.0	21	N/13-12
178	T16	2	11650.0	23300.0	34	N/13a-19
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180	T16	2	10050.0	20100.0	11	N/13a-18
181	T16	2	7000.0	14000.0	99	N/13a-18
182	T16	4	3300.0	13200.0	21	N/19-20
183	T16	2	11900.0	23800.0	99	O/4-12
184	T16	2	4950.0	9900.0	99	O/4-12
185	T16	2	1400.0	2800.0	99	O/18-19
186	T16	9	1350.0	12150.0	99	O/18-19
187	T16	6	4800.0	28800.0	21	O/18-19
188	T16	2	4000.0	8000.0	21	O/20-22
189	T16	2	4000.0	8000.0	21	O/20-22

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
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4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

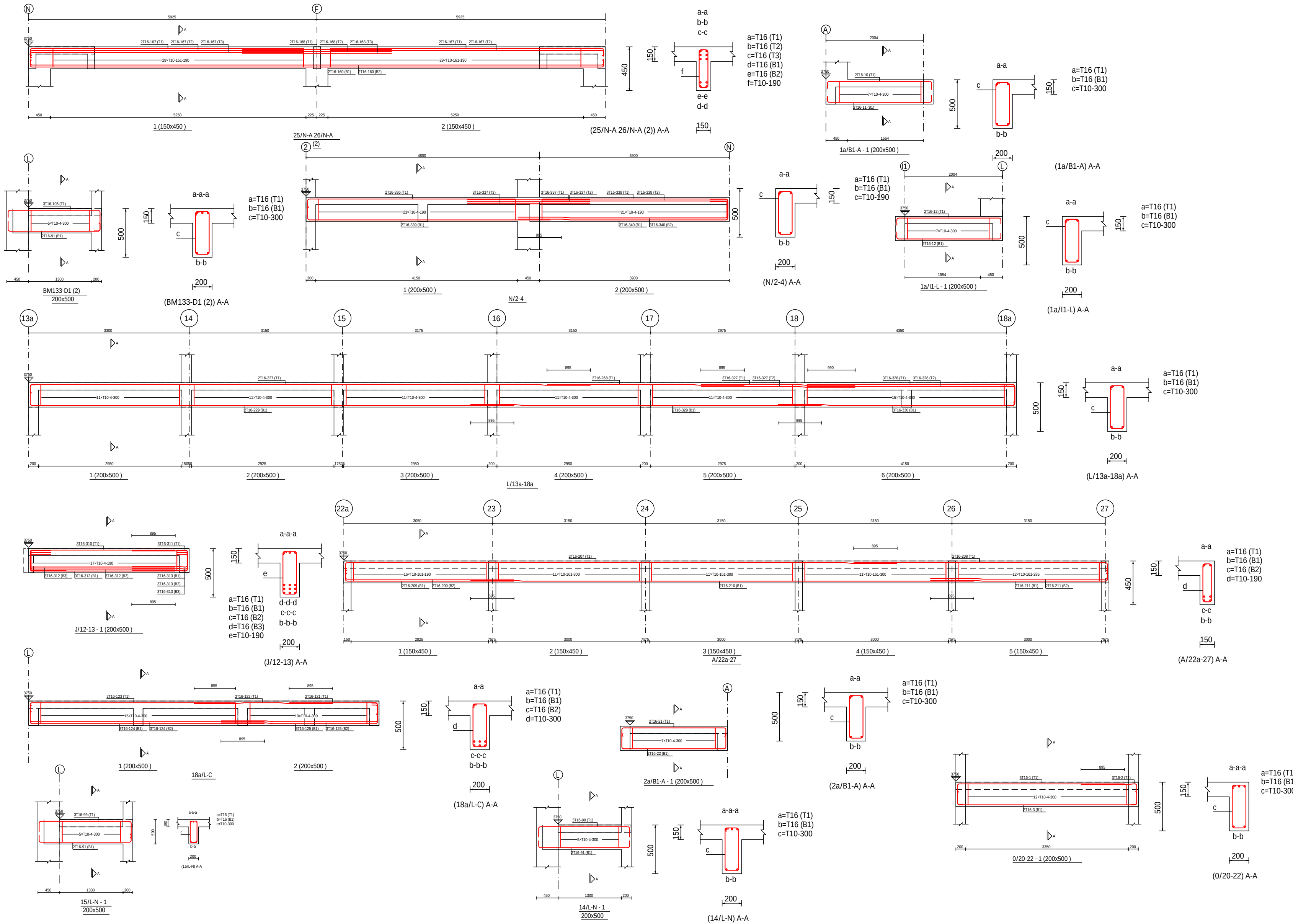
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S23	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FF BEAM DETAILS

Notes

- ## REVISION

Rev	Date	Description	Initials
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PROJECT

TITLE

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



Notes

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Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

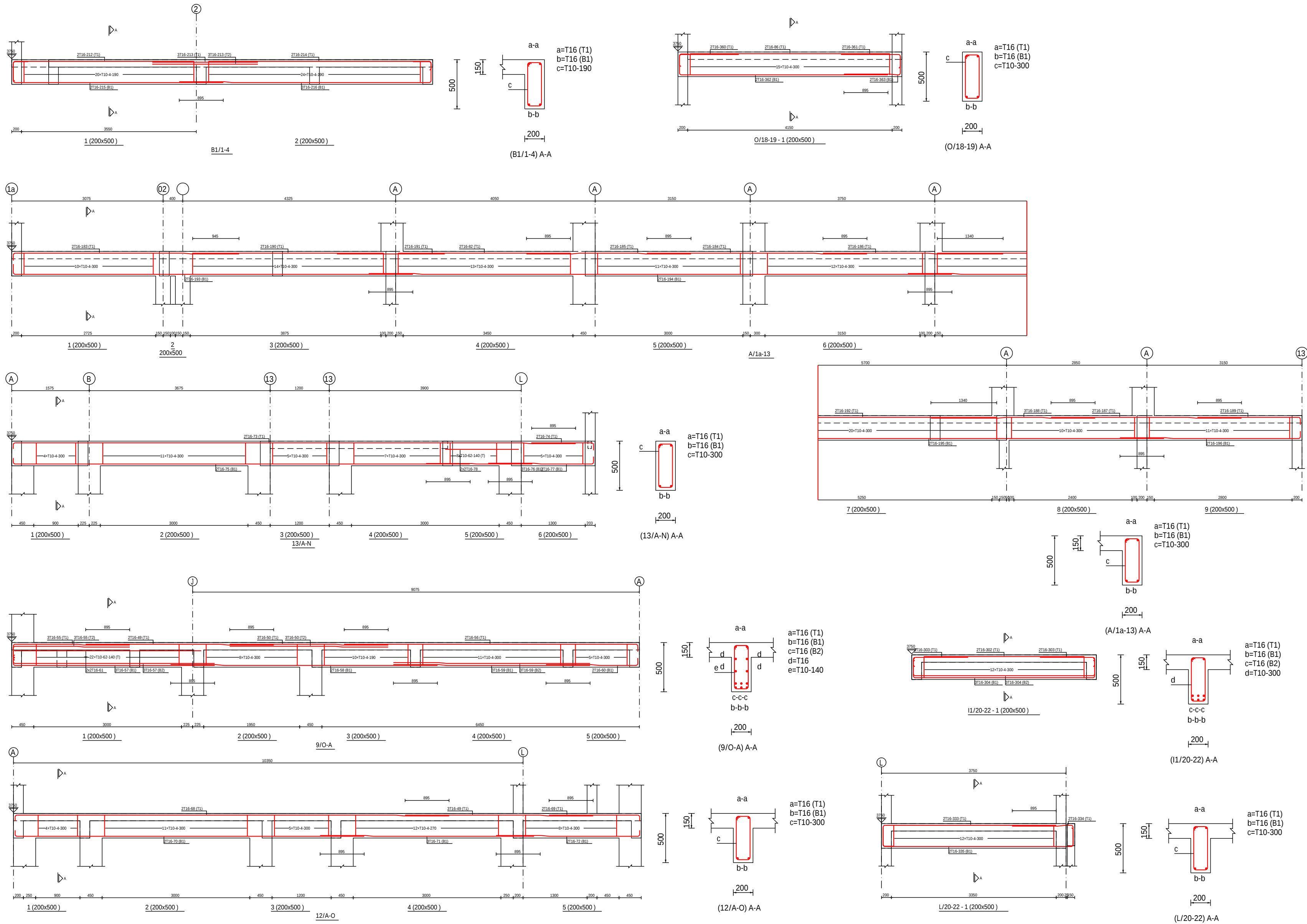
PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE

FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S25	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

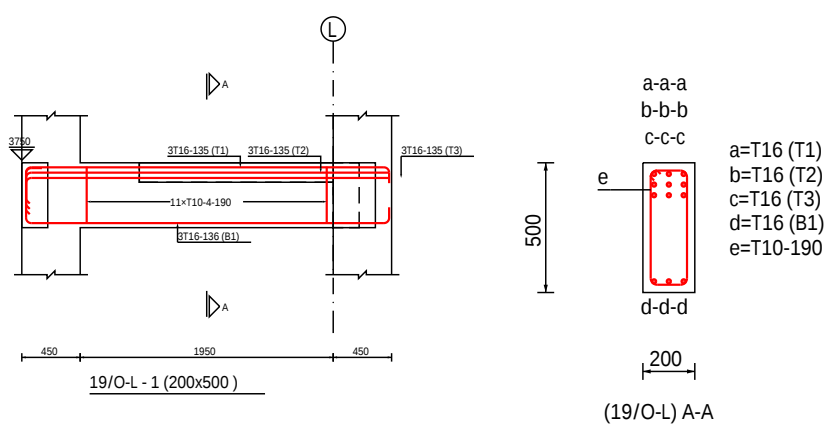
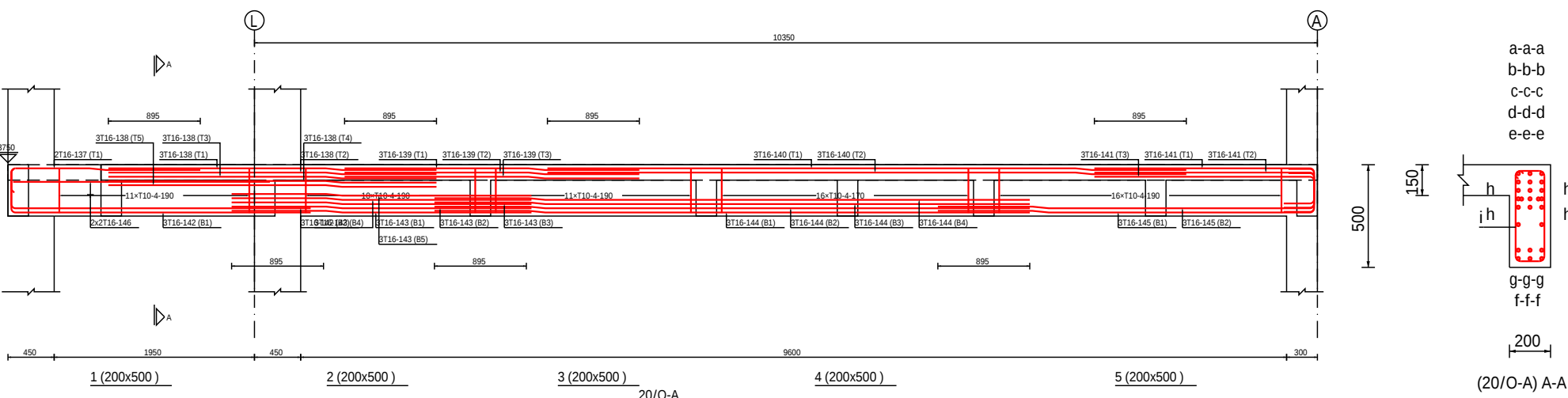
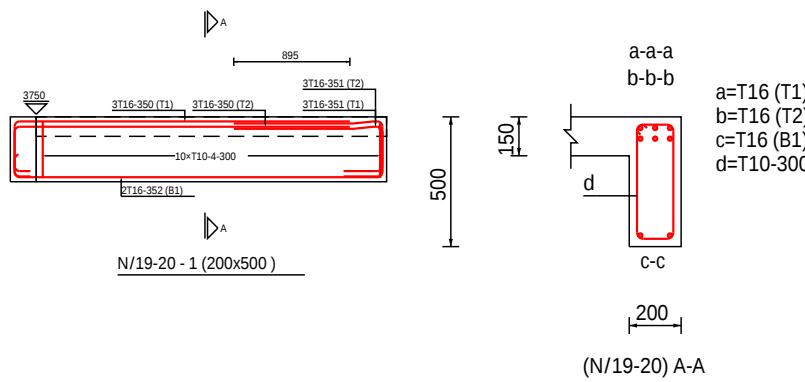
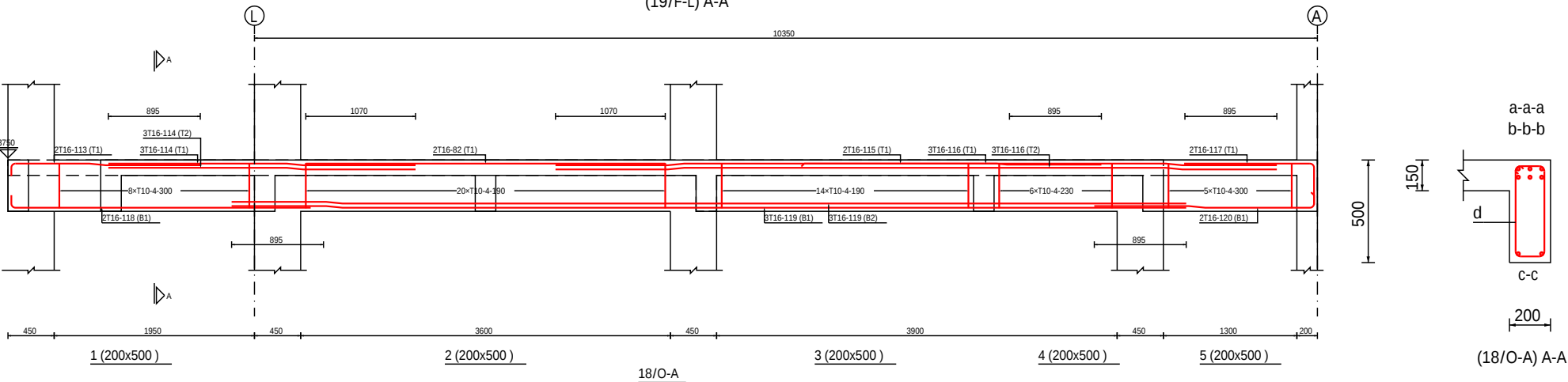
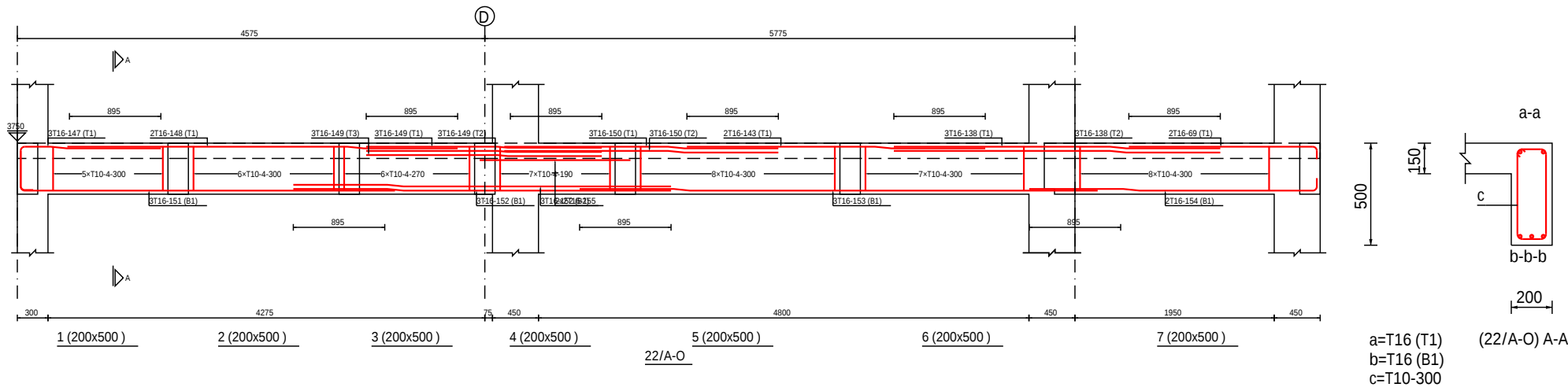
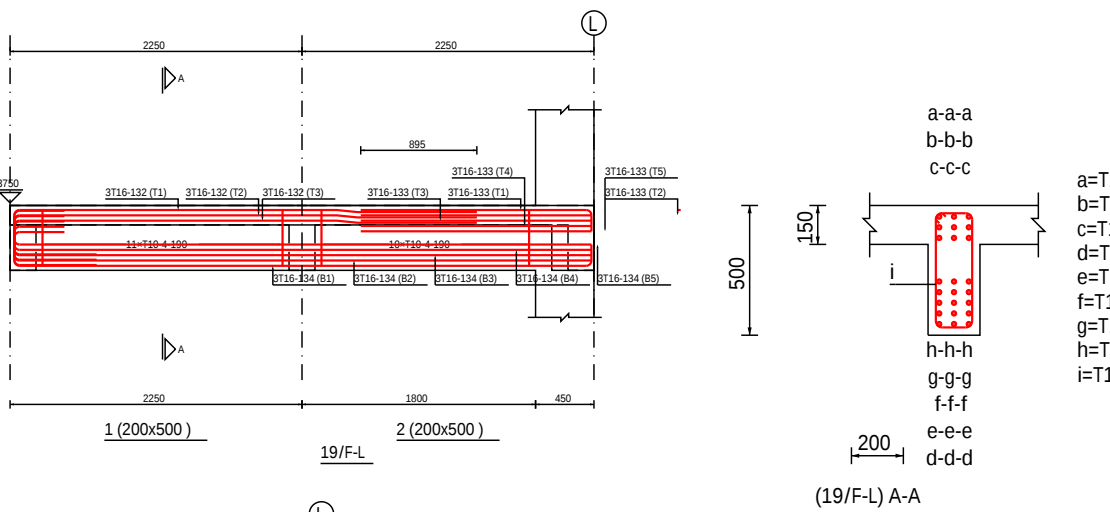
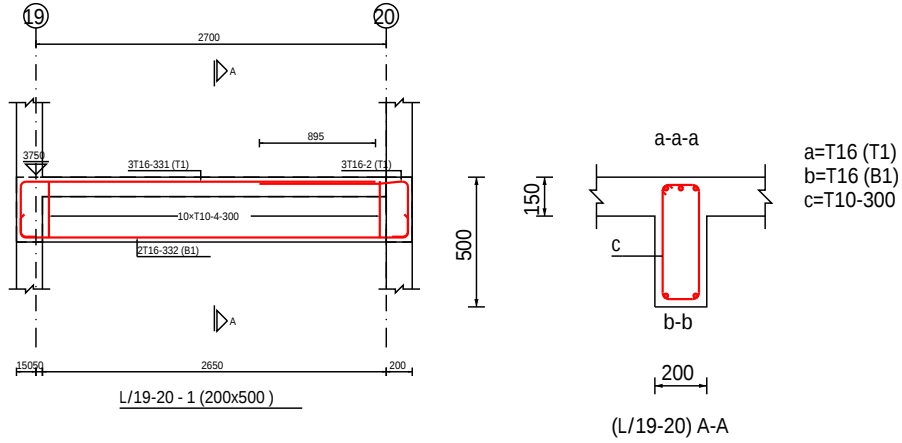
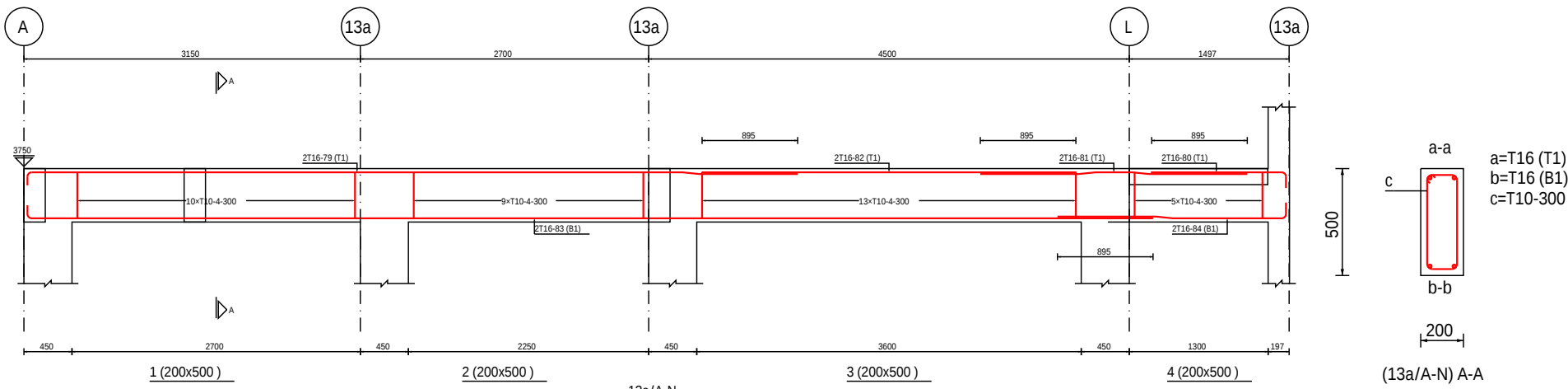
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S26	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FF BEAM DETAILS

GENERAL

Notes

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REVISION

Rev	Date	Description	Initials



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GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

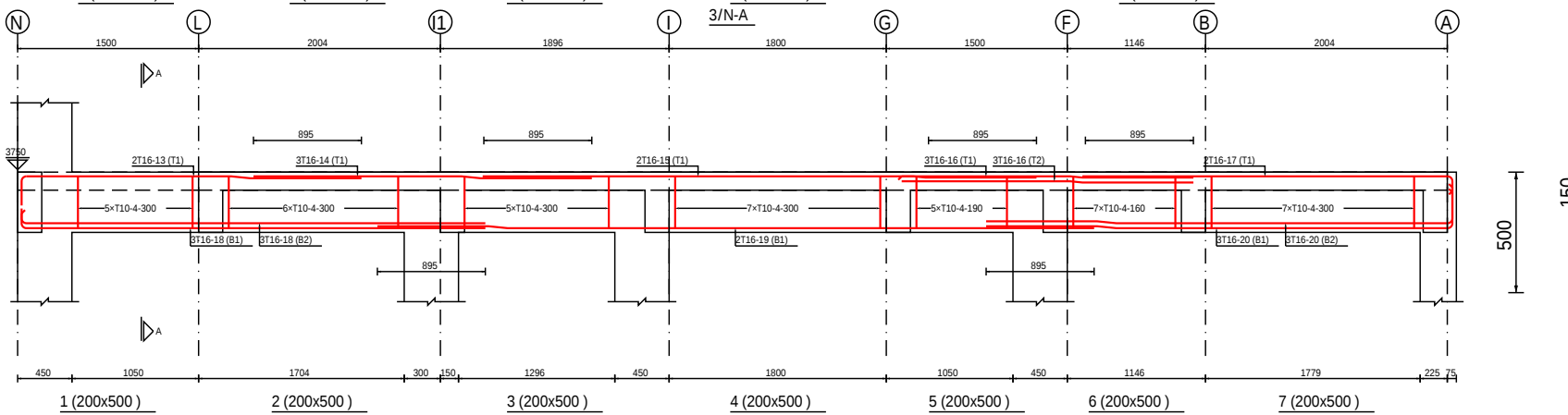
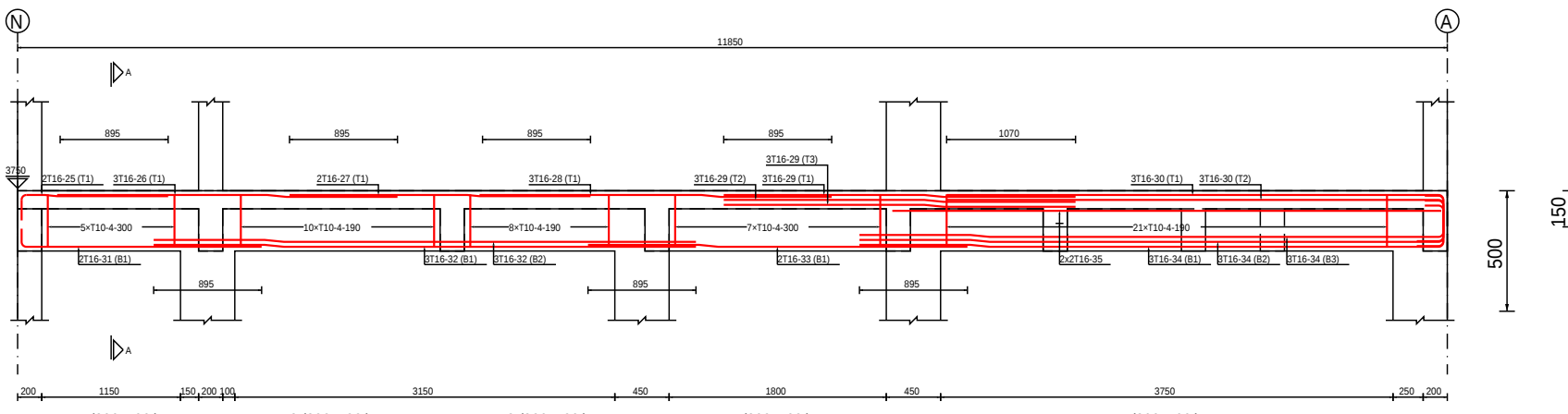
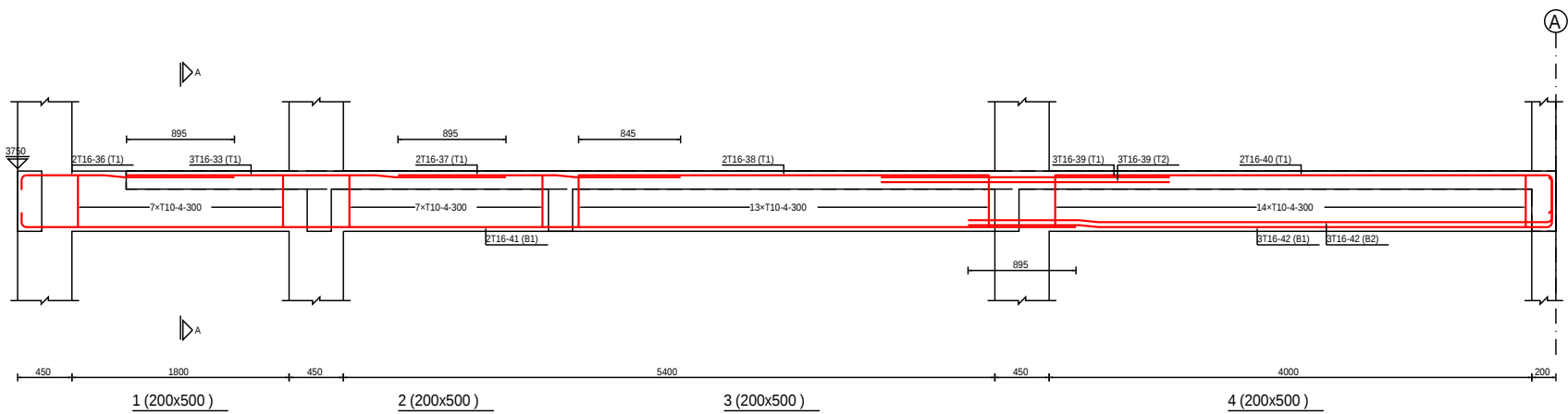
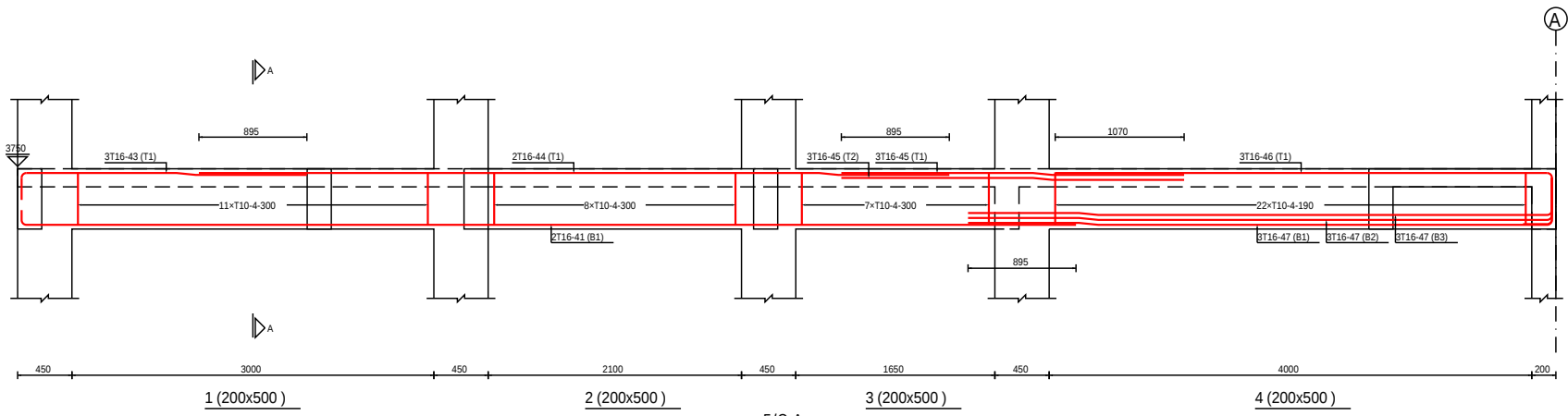
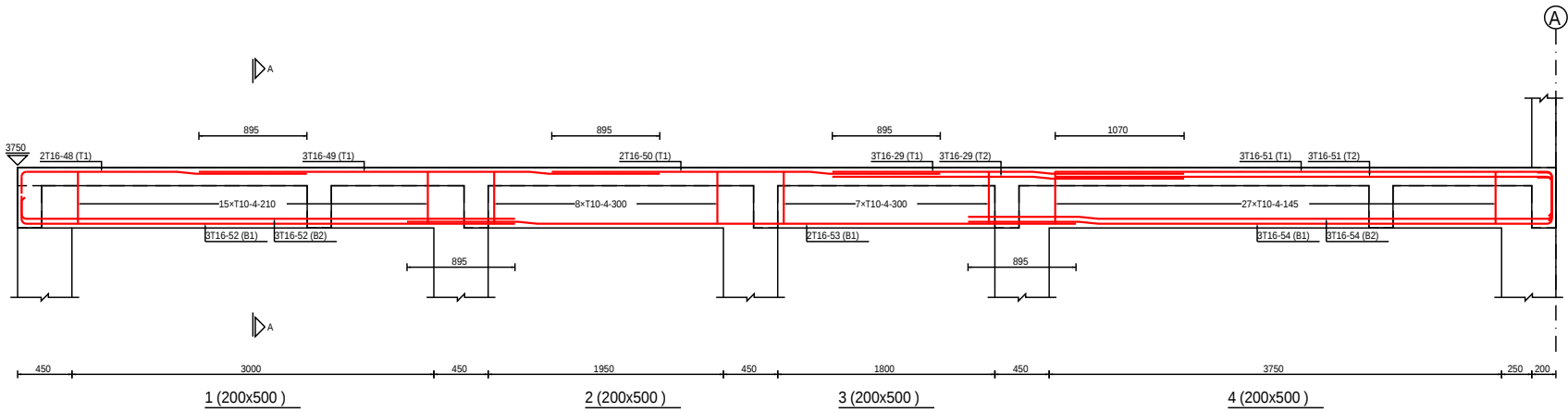
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

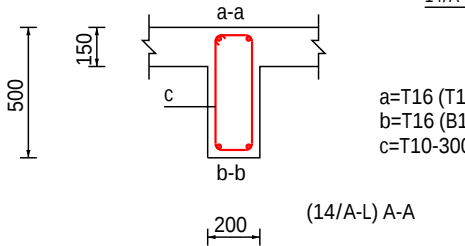
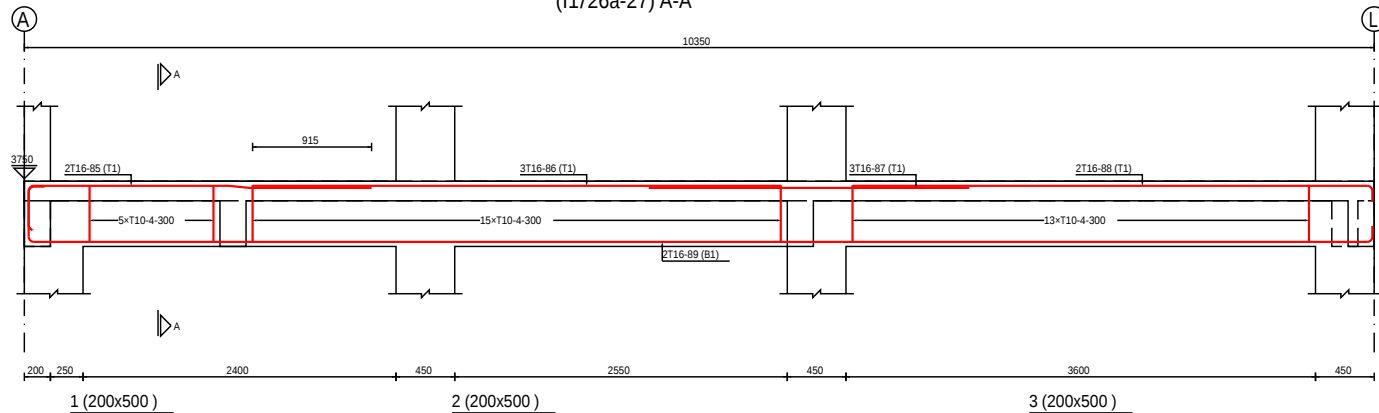
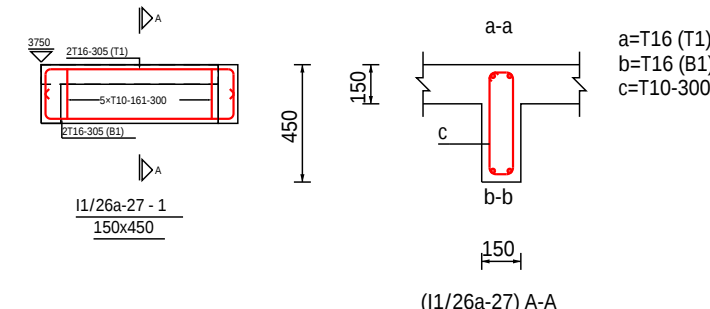
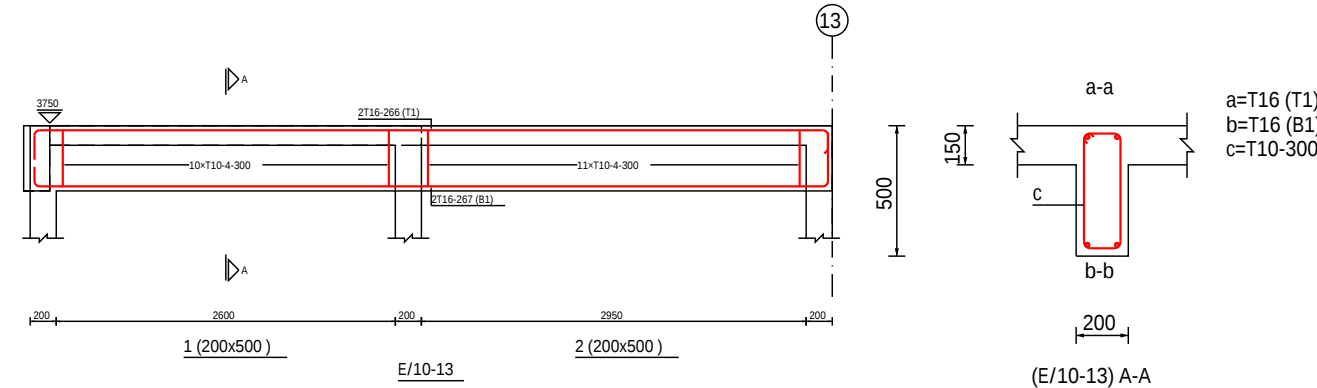
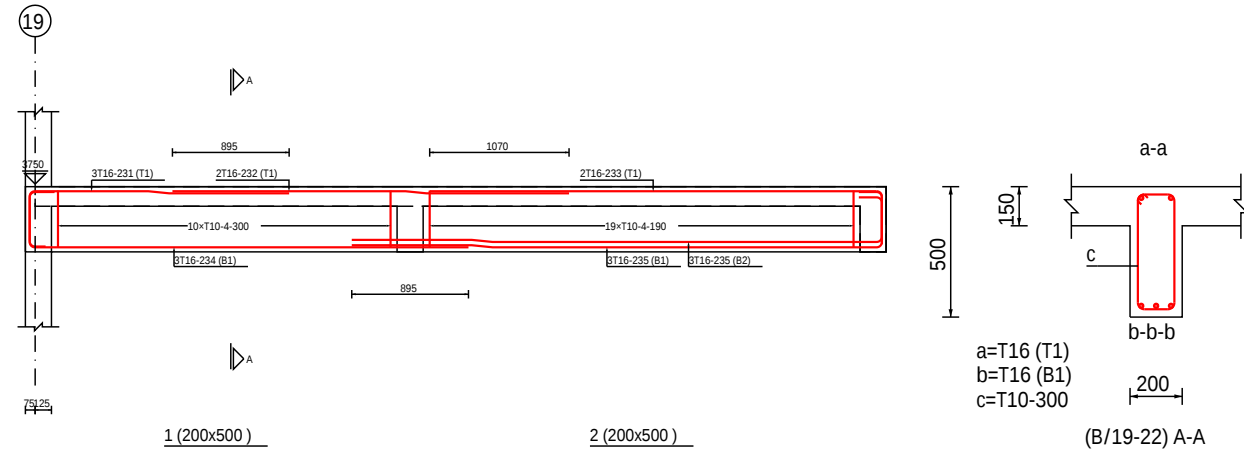
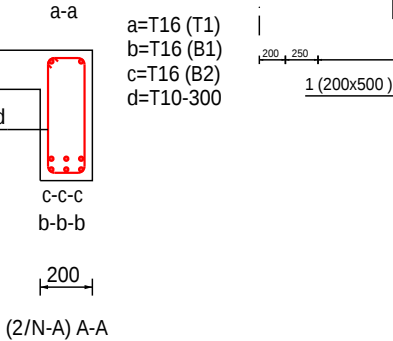
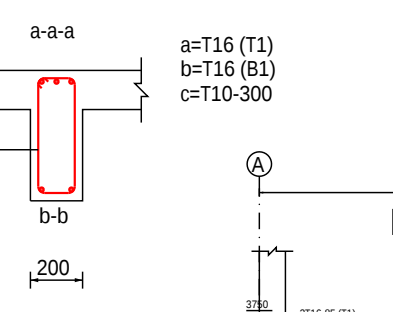
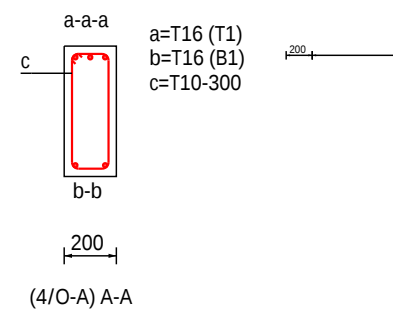
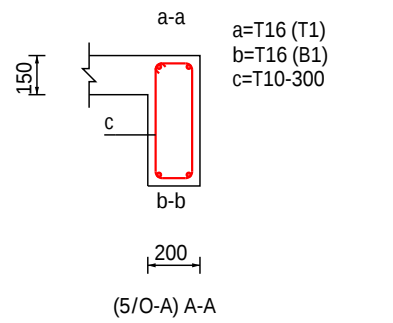
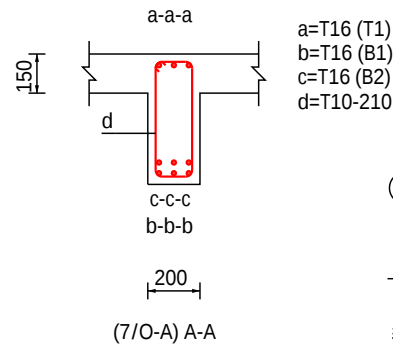
FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S27	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FF BEAM DETAILS



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials



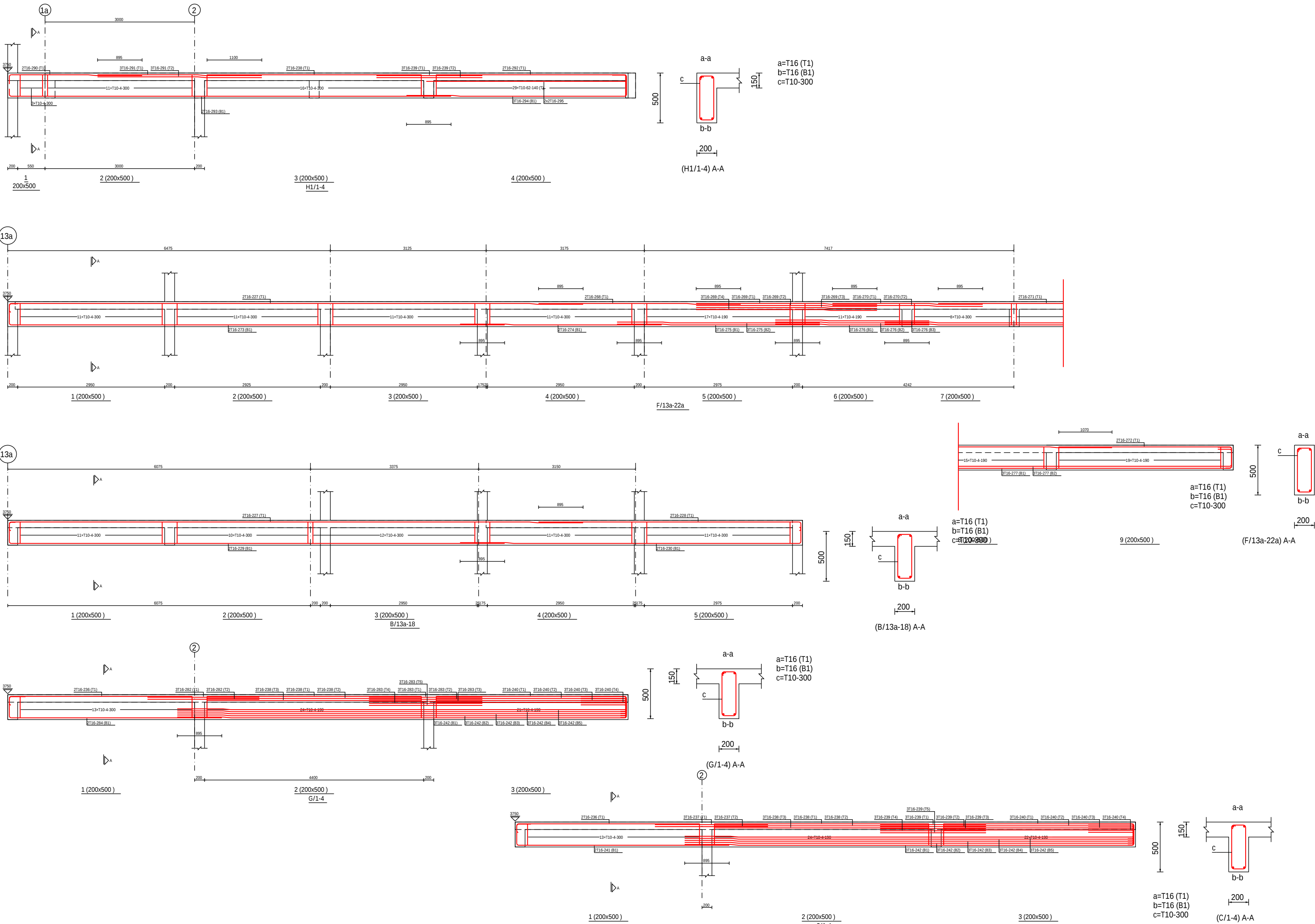
CLIENT
MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE
FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S28	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
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4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

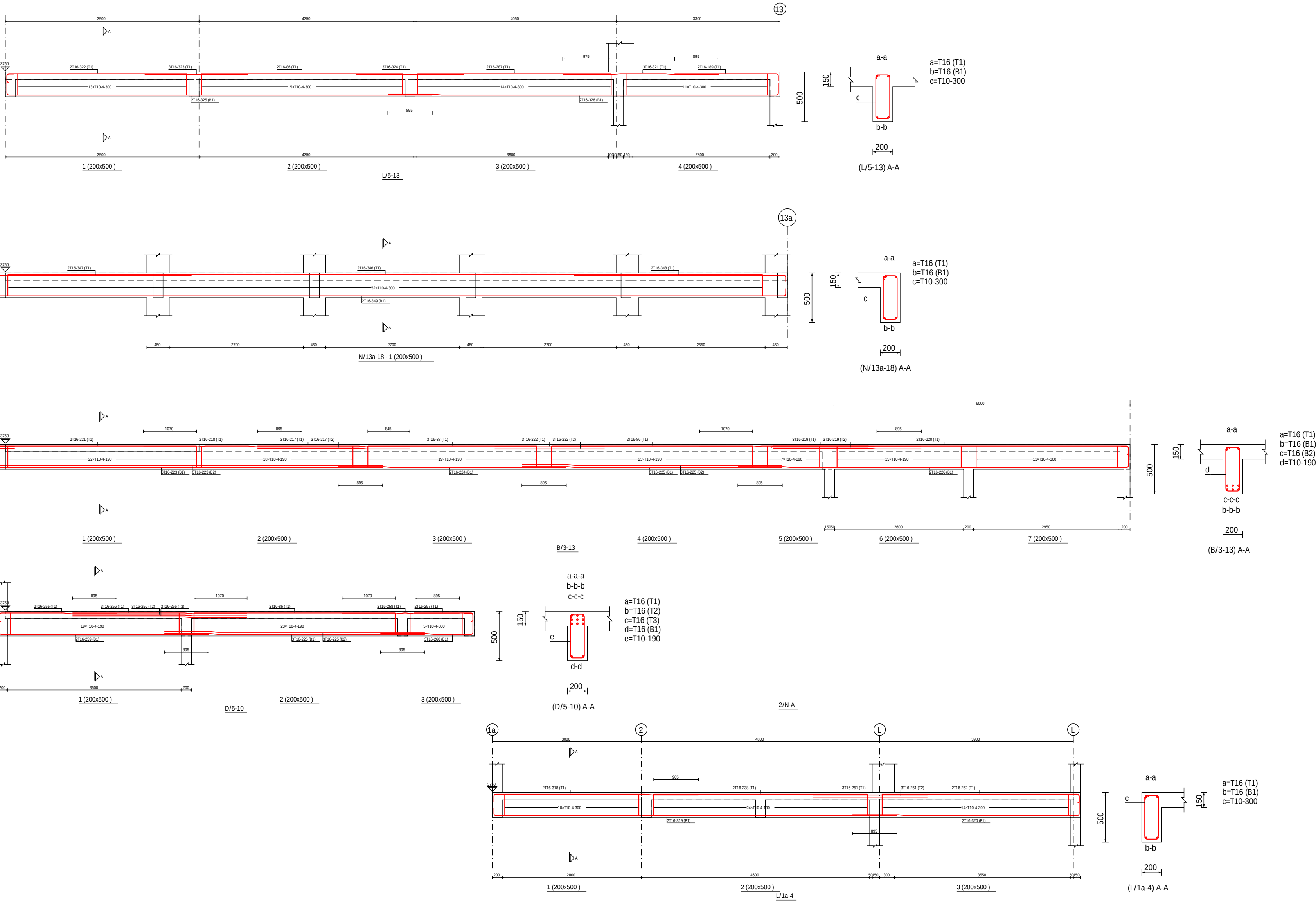
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S29	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



FF BEAM DETAILS

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
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Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE

FF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S30	STRS	DESIGN

DESIGNED BY :

FEDEEMS

DRAWN BY :

FEDEEMS

CHECKED BY :

B.F.A

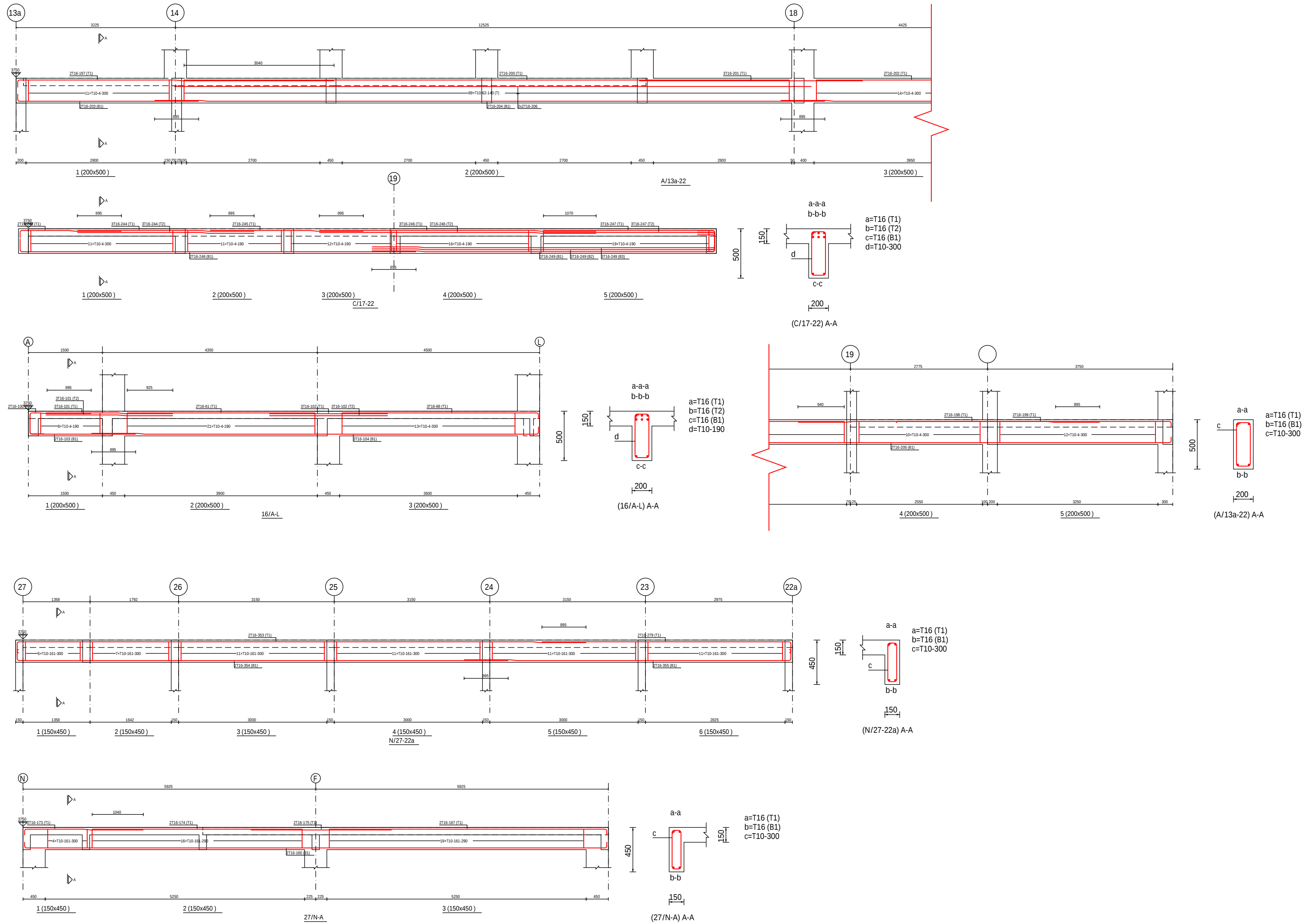
DATE :

MAY , 2025

SCALE :

1:200

PROJECT ID :



FF BEAM DETAILS

Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.620	4.447E+06	2757.26
T16	1.580	7.598E+06	12065.55
Grand Total		14762.82	

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	3	3550.0	11550.0	21	B/20-22
2	T16	6	1700.0	10200.0	99	B/20-22, U/19-20
3	T16	2	4150.0	8300.0	21	B/20-22
4	T10	2415	1400.0	3.381E+06	51	B/20-22, 1/H1-B1, 1a/B1-A, 1a/1-L, 2/N-A, 2a/B1-A, 2a/N-1, 3/N-A, 4/O-A, 5/O-A, 7/O-A, 9/O-A, 10/A-1, 12/A-O, 13/A-N, 13a/A-N, 14/A-L, 14/L-N, 15/A-L, 15/L-N, 16/A-L, 16/L-N, 17/A-L, 17/L-N, 18/O-A, 18a/L-C, 19/A-F, 19/F-L, 19/O-L, 20/O-A, 22/A-O, A/1a-13, A/13a-22, B/1-L-4, B/3-13, B/13a-18, B/19-22, G/1-4, G/17-22, D/1-4, G/5-10, D/13a-22, E/10-13, F/13a-22a, G/1-4, G/5-13, H/1-L-4, I/15-19, I/20-22, J/5-12, J/12-13, U/1a-4, U/5-13, U/13a-18a, U/19-20, U/20-22, N/2-4, N/9-13, N/13a-18, N/19-20, N/20a-22
5	T16	2	9500.0	11200.0	0	1/H1-B1
6	T16	6	2000.0	12000.0	99	1/H1-B1
7	T16	6	2150.0	12900.0	21	1/H1-B1
8	T16	6	6400.0	38400.0	99	1/H1-B1
9	T16	6	1750.0	10500.0	99	1/H1-B1
10	T16	2	2450.0	4900.0	21	1a/B1-A
11	T16	2	2400.0	4800.0	21	1a/B1-A
12	T16	4	2400.0	9600.0	21	1a/1-L
13	T16	2	3050.0	6100.0	99	2/N-A
14	T16	3	2850.0	8550.0	26	2/N-A
15	T16	2	4000.0	8000.0	26	2/N-A
16	T16	6	2450.0	14700.0	26	2/N-A
17	T16	2	3200.0	6400.0	11	2/N-A
18	T16	6	3950.0	23700.0	11	2/N-A
19	T16	2	5950.0	11900.0	26	2/N-A
20	T16	6	4150.0	24900.0	99	2/N-A
21	T16	2	2450.0	4900.0	21	2a/B1-A
22	T16	2	2700.0	5400.0	21	2a/B1-A
23	T16	2	3950.0	7900.0	21	2a/N-1
24	T16	2	4000.0	8000.0	21	2a/N-1
25	T16	2	1450.0	2900.0	99	3/N-A
26	T16	3	2650.0	7950.0	26	3/N-A
27	T16	2	2500.0	5000.0	26	3/N-A
28	T16	3	2950.0	8850.0	26	3/N-A
29	T16	15	2950.0	44250.0	26	3/N-A, 7/O-A
30	T16	6	4700.0	28200.0	21	3/N-A
31	T16	2	2150.0	4300.0	99	3/N-A
32	T16	6	4500.0	27000.0	26	3/N-A
33	T16	5	3150.0	15750.0	26	3/N-A, 4/O-A
34	T16	9	5350.0	48150.0	99	3/N-A
35	T16	4	4650.0	18600.0	0	3/N-A
36	T16	2	1900.0	3800.0	34	4/O-A
37	T16	2	2350.0	4700.0	26	4/O-A
38	T16	5	3400.0	17000.0	0	4/O-A, B/3-13
39	T16	6	2400.0	14400.0	0	4/O-A
40	T16	2	4400.0	8800.0	99	4/O-A
41	T16	4	8850.0	35400.0	11	4/O-A, 5/O-A
42	T16	6	5250.0	31500.0	99	4/O-A
43	T16	3	2600.0	7800.0	99	5/O-A
44	T16	2	6250.0	12500.0	26	5/O-A
45	T16	6	2850.0	17100.0	26	5/O-A
46	T16	3	4750.0	14250.0	21	5/O-A
47	T16	9	5520.0	49600.0	99	5/O-A
48	T16	2	2550.0	5100.0	99	7/O-A
49	T16	8	3850.0	30800.0	26	7/O-A, 9/O-A, 12/A-O
50	T16	8	3250.0	26000.0	26	7/O-A, 9/O-A
51	T16	6	4500.0	26700.0	99	7/O-A
52	T16	6	4300.0	25800.0	99	7/O-A
53	T16	2	5550.0	11100.0	26	7/O-A
54	T16	6	5350.0	32100.0	99	7/O-A
55	T16	6	2650.0	15900.0	99	9/O-A
56	T16	2	6100.0	12200.0	99	9/O-A
57	T16	6	4250.0	25500.0	99	9/O-A
58	T16	2	5450.0	10900.0	26	9/O-A
59	T16	6	4000.0	24000.0	26	9/O-A
60	T16	2	2000.0	4000.0	99	9/O-A
61	T16	8	3850.0	30800.0	0	9/O-A, 15/A-L, 16/A-L
62	T10	150	1500.0	225000.0	63	9/O-A, 10/A-1, 13/A-N, A/13a-22, H/1-L-4
63	T16	2	5800.0	11600.0	34	10/A-J
64	T16	3	3950.0	11850.0	26	10/A-J
65	T16	2	1850.0	3700.0	99	10/A-J
66	T16	2	8550.0	17100.0	21	10/A-J
67	T16	4	700.0	2800.0	0	10/A-J
68	T16	2	8950.0	17900.0	34	12/A-O
69	T16	4	1950.0	7800.0	11	12/A-O, 22/A-O
70	T16	2	7200.0	14400.0	11	12/A-O
71	T16	3	4350.0	13050.0	26	12/A-O
72	T16	2	3050.0	6100.0	34	12/A-O
73	T16	2	11550.0	23100.0	34	13/A-N
74	T16	2	1400.0	2800.0	99	13/A-N
75	T16	2	9400.0	18800.0	11	13/A-N
76	T16	3	2200.0	6600.0	26	13/A-N
77	T16	2	2300.0	4600.0	99	13/A-N
78	T16	4	1500.0	6000.0	0	13/A-N
79	T16	2	7350.0	14700.0	34	13a/N-A
80	T16	2	1400.0	2800.0	99	13a/N-A
81	T16	2	2550.0	5100.0	46	13a/N-A
82	T16	6	3500.0	21000.0	0	13a/N-A, 18/O-A, A/1a-13
83	T16	2	10650.0	21300.0	11	13a/N-A
84	T16	2	2300.0	4600.0	99	13a/N-A
85	T16	2	2950.0	5900.0	99	14/A-L
86	T16	18	4100.0	73800.0	0	14/A-L, B/3-13, D/5-10, G/5-13, J/5-12, U/5-13, O/4-12, O/18-19
87	T16	3	2500.0	7500.0	0	14/A-L
88	T16	5	4450.0	22250.0	0	14/A-L, 16/A-L
89	T16	2	11300.0	22600.0	21	14/A-L
90	T16	3	2600.0	7800.0	99	14/L-N
91	T16	8	2500.0	20000.0	99	14/L-N, 15/L-N, 16/L-N, 17/L-N
92	T16	2	1650.0	3300.0	99	15/A-L
93	T16	6	2600.0	15600.0	26	15/A-L
94	T16	2	2700.0	5400.0	26	15/A-L
95	T16	6	2850.0	17100.0	46	15/A-L
96	T16	3	2250.0	6750.0	0	15/A-L
97	T16	2	6650.0	13300.0	99	15/A-L
98	T16	6	5200.0	31200.0	26	15/A-L
99	T16	3	2700.0	8100.0	99	15/L-N

FFBS

100	T16	2	1950.0	3900.0	99	16/A-L
101	T16	6	2600.0	15600.0	26	16/A-L
102	T16	6	2450.0	14700.0	0	16/A-L
103	T16	2	2550.0	5100.0	99	16/A-L
104	T16	3	9500.0	28500.0	26	16/A-L
105	T16	6	2900.0	17400.0	21	16/L-N, 17/L-N
106	T16	2	1800.0	3600.0	99	17/A-L
107	T16	6	2700.0	16200.0	26	17/A-L
108	T16	2	2850.0	5700.0	26	17/A-L
109	T16	6	3400.0	20400.0	26	17/A-L
110	T16	6	4700.0	28200.0	0	17/A-L
111	T16	2	6900.0	13800.0	99	17/A-L
112	T16	6	5400.0	32400.0	26	17/A-L
113	T16	2	1950.0	3900.0	34	18/O-A
114	T16	6	3000.0	18000.0	26	18/O-A
115	T16	2	2900.0	5800.0	26	18/O-A
116	T16	6	7050.0	42300.0	46	18/O-A
117	T16	2	1650.0	3300.0	99	18/O-A
118	T16	2	3050.0	6100.0	11	18/O-A
119	T16	6	9300.0	55800.0	26	18/O-A
120	T16	2	2250.0	4500.0	34	18/O-A
121	T16	2	2050.0	4100.0	99	18a/L-C
122	T16	2	2850.0	5700.0	46	18a/L-C
123	T16	2	4400.0	8800.0	99	18a/L-C
124	T16	6	5200.0	31200.0	99	18a/L-C
125	T16	6	3700.0	22200.0	99	18a/L-C
126	T16	6	1850.0	11100.0	99	19/A-F
127	T16	15	3900.0	58500.0	26	19/A-F
128	T16	9	3400.0	30600.0	21	19/A-F
129	T16	9	2800.0	25200.0	99	19/A-F
130	T16	15	2450.0	36750.0	26	19/A-F
131	T16	12	4200.0	50400.0	99	19/A-F
132	T16	9	4550.0	40950.0	99	19/F-L
133	T16	15	2500.0	37500.0	0	19/F-L
134	T16	15	5750.0	86250.0	21	19/F-L
135	T16	9	3500.0	31500.0	99	19/O-L
136	T16	3	4000.0	12000.0	21	19/O-L
137	T16	2	2050.0	4100.0	99	20/O-A
138	T16	21	3200.0	67200.0	26	20/O-A, 22/A-O
139	T16	9	2900.0	26100.0	26	20/O-A
140	T16	6	6250.0	37500.0	26	20/O-A
141	T16	9	2750.0	24750.0	21	20/O-A
142	T16	6	3300.0	19800.0	99	20/O-A
143	T16	17	2950.0	50150.0	26	20/O-A, 22/A-O
144	T16	12	5800.0	69600.0	26	20/O-A
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147	T16	3	1900.0	5700.0	99	22/A-O
148	T16	2	3850.0	7700.0	26	22/A-O
149	T16	9	2350.0	21150.0	26	22/A-O
150	T16	6	2700.0	16200.0	26	22/A-O
151	T16	3	4200.0	12600.0	99	22/A-O
152	T16	6	3700.0	22200.0	26	22/A-O
153	T16	3	5100.0	15300.0	26	22/A-O
154	T16	2	2950.0	5900.0	34	22/A-O
155	T16	4	1500.0	6000.0	0	22/A-O
156	T16	2	3250.0	6500.0	34	22a/N-A
157	T16	2	4700.0	9400.0	0	22a/N-A
158	T16	2	2700.0	5400.0	0	22a/N-A
159	T16	2	4700.0	9400.0	11	22a/N-A
160	T16	20	12000.0	240000.0	21	22a/N-A, 23/N-A, 24/N-A, 25/N-A, 26/N-A, 27/N-A
161	T10	701	1200.0	841200.0	51	22a/N-A, 22b/L1-A1, 23/N-A, 24/N-A, 25/N-A, 26/N-A, 26a/N-A, 27/N-A, A/122b-27, A/22a-27, F/22a-27, I/122a-27, U/22a-27
162	T16	2	4750.0	9500.0	99	22b/L1-A1
163	T16	8	2300.0	18400.0	0	22b/L1-A1, 26a/N-B
164	T16	4	4800.0	19200.0	99	22b/L1-A1, 26a/N-B
165	T16	2	5450.0	10900.0	21	22b/L1-A1
166	T16	2	5450.0	10900.0	99	22b/L1-A1
167	T16	42	5750.0	241500.0	11	23/N-A, 24/N-A, 25/N-A, 26/N-A, 27/N-A
168	T16	24	3100.0	74400.0	0	23/N-A, 24/N-A, 25/N-A, 26/N-A
169	T16	2	1350.0	2700.0	99	26a/N-B
170	T16	2	2400.0	4800.0	46	26a/N-B
171	T16	2	4400.0	8800.0	0	26a/N-B
172	T16	2	11050.0	22100.0	21	26a/N-B
173	T16	2	2550.0	5100.0	34	27/N-A
174	T16	2	4250.0	8500.0	0	27/N-A
175	T16	2	2900.0	5800.0	0	27/N-A
176	T16	2	1850.0	3700.0	99	A/122b-26a
177	T16	10	3450.0	34500.0	26	A/122b-26a, L/122b-27
178	T16	2	7200.0	14400.0	26	A/122b-26a
179	T16	6	3400.0	20400.0	26	A/122b-26a
180	T16	2	1750.0	3500.0	99	A/122b-26a
181	T16	2	9050.0	18100.0	99	A/122b-26a
182	T16	4	5550.0	22200.0	34	A/122b-26a
183	T16	2	4750.0	9500.0	99	A/1a-13
184	T16	2	4050.0	8000.0	26	A/1a-13
185	T16	2	3350.0	6700.0	46	A/1a-13
186	T16	2	1180.0	2370.0	26	A/1a-13
187	T16	2	9450.0	18900.0	26	A/1a-13
188	T16	2	3900.0	7800.0	26	A/1a-13
189	T16	3	3350.0	10050.0	46	A/1a-13
190	T16	6	2250.0	13500.0	99	A/1a-13, G/5-13, U/5-13
191	T16	2	3900.0	7800.0	0	A/1a-13
191	T16	2	2200.0	4400.0	0	A/1a-13
192	T16	2	5450.0	10900.0	0	A/1a-13
193	T16	2	6950.0	13900.0	99	A/1a-13
194	T16	2	1180.0	2370.0	26	A/1a-13
195	T16	2	9450.0	18900.0	26	A/1a-13
196	T16	2	3800.0	7600.0	99	A/1a-13
197	T16	2	6550.0	13100.0	99	A/1a-22
198	T16	2	4100.0	8200.0	26	A/1a-22
199	T16	2	7700.0	15400.0	34	A/1a-22
200	T16	2	12250.0	24500.0	0	A/1a-22
201	T16	3	4550.0	13650.0	0	A/1a-22
202	T16	2	3950.0	7900.0	99	A/1a-22
203	T16	2	3800.0	7600.0	99	A/1a-22
204	T16	2	3600.0	7200.0	26	A/1a-22
205	T16	2	11300.0	22600.0	34	A/1a-22
206	T16	4	12900.0	51600.0	0	A/1a-22

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

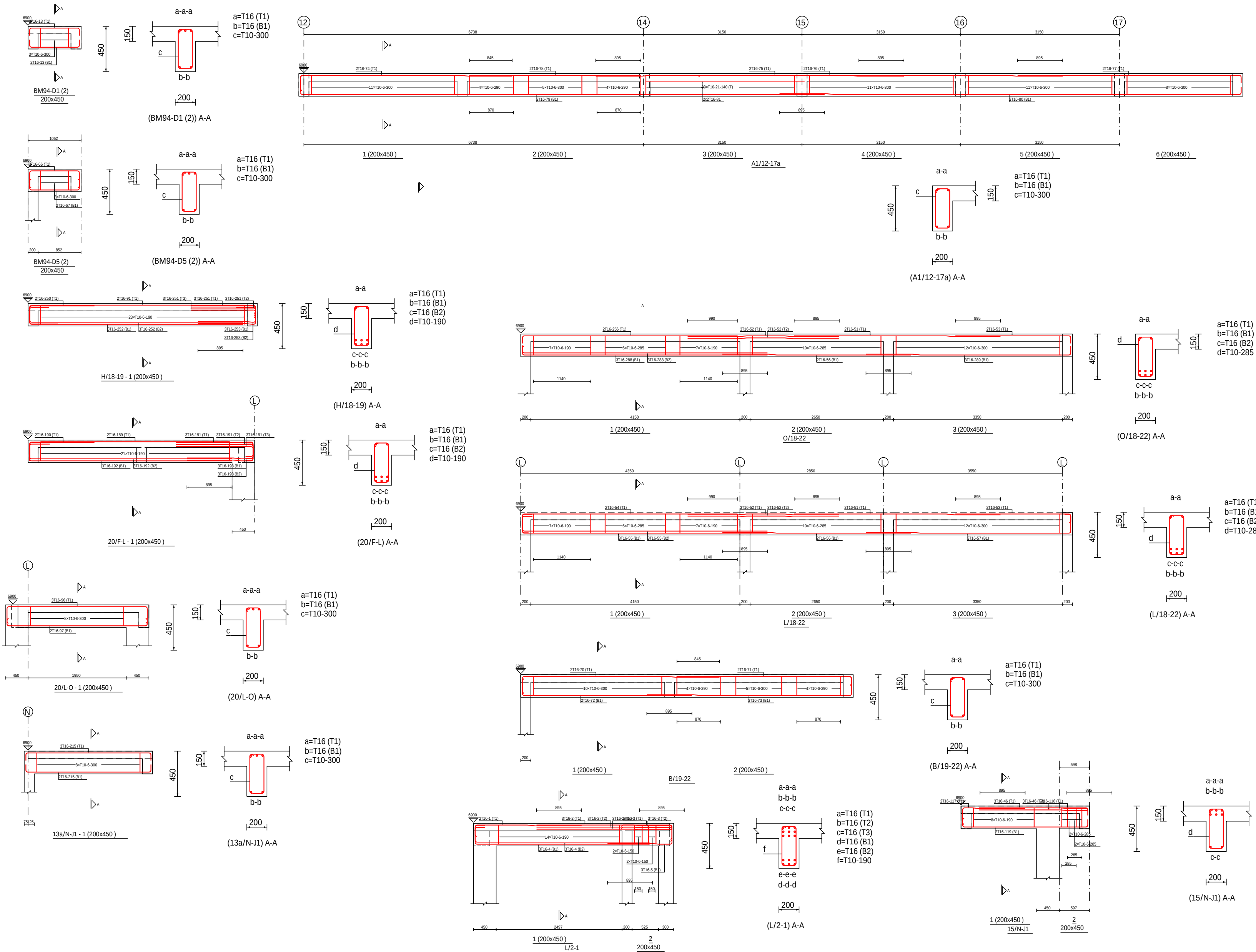
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S32	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



ROOF BEAMS DETAILS

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

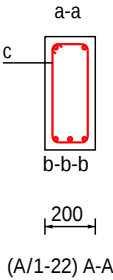
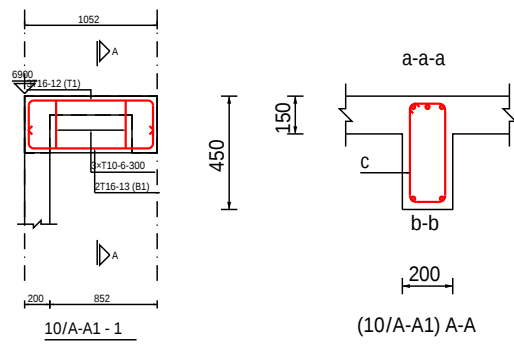
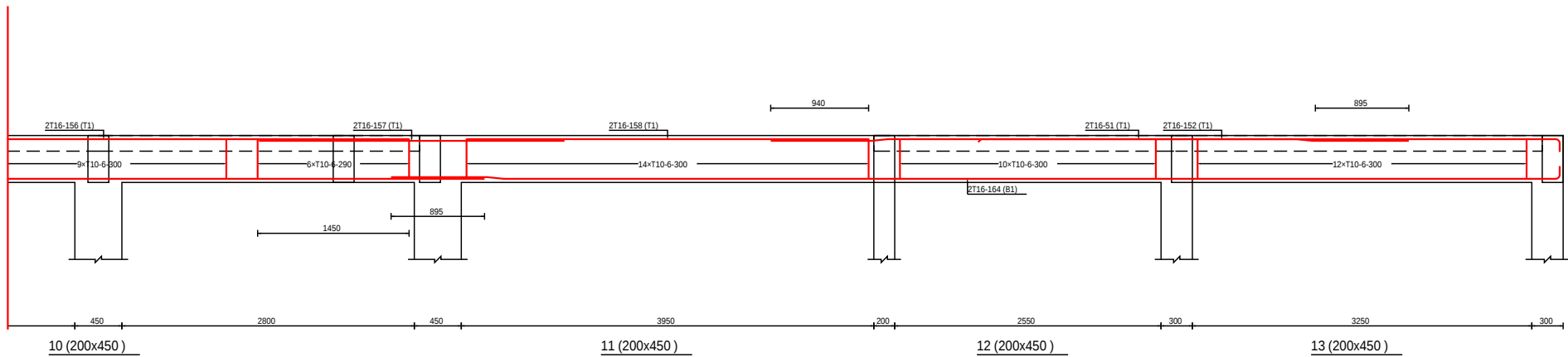
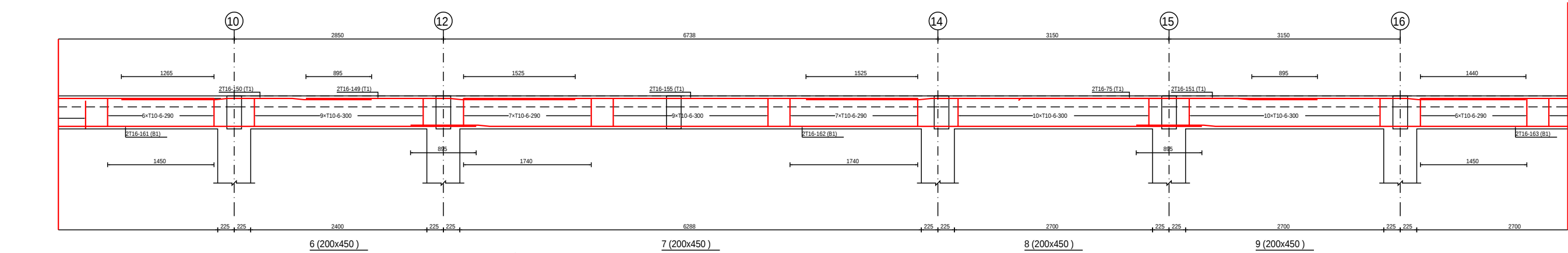
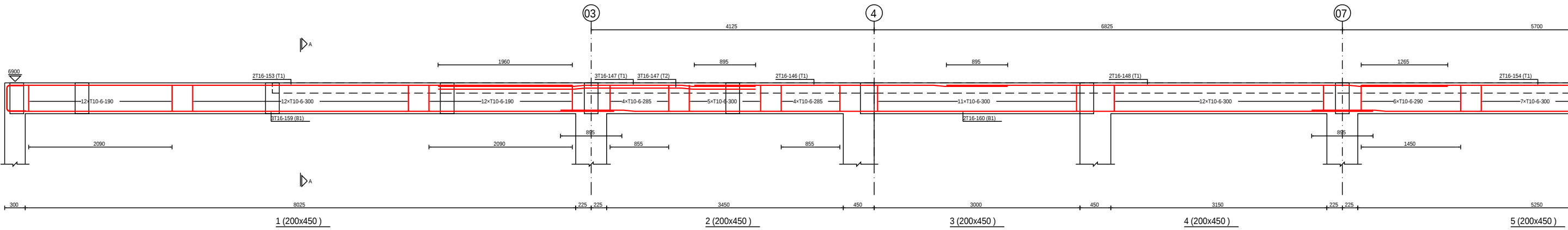
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

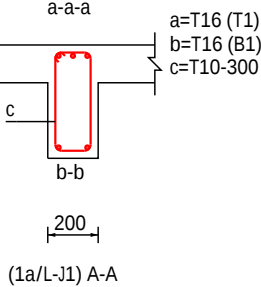
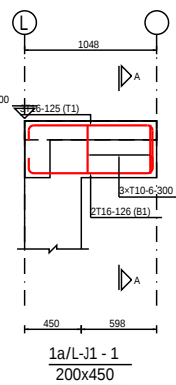
RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S33	STRS	DESIGN

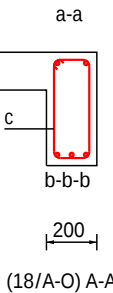
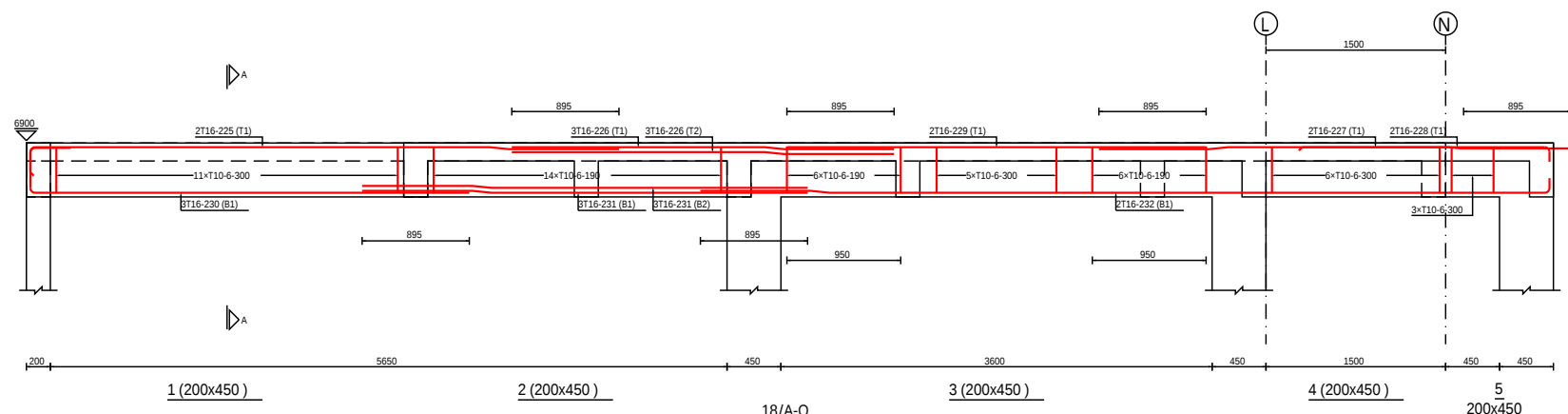
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



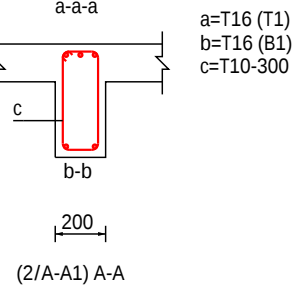
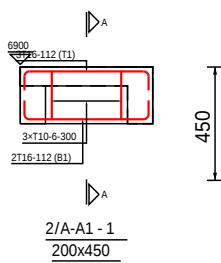
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c=T10-300



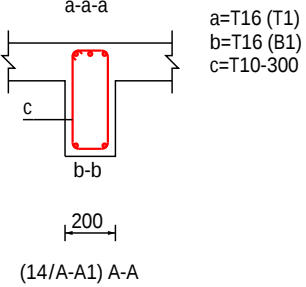
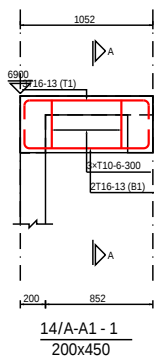
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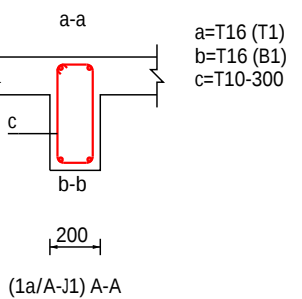
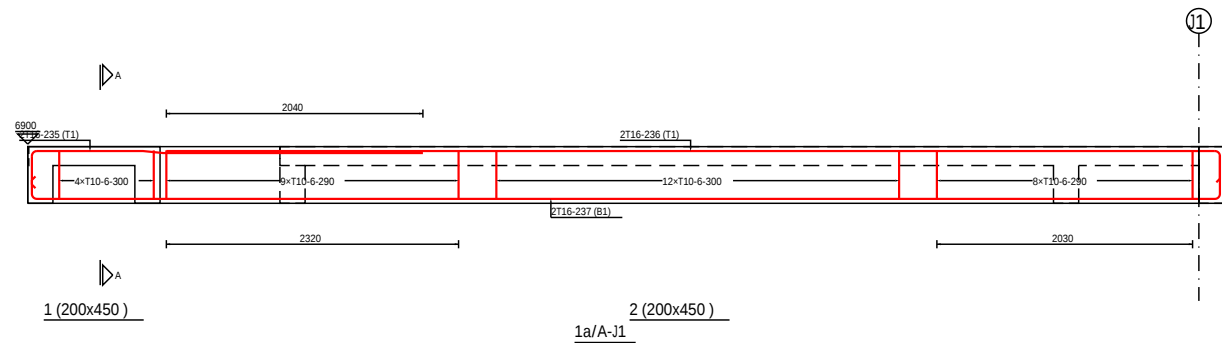
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b=T16 (B1)
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a=T16 (T1)
b=T16 (B1)
c=T10-300



a=T16 (T1)
b=T16 (B1)
c=T10-300



a=T16 (T1)
b=T16 (B1)
c=T10-300

ROOF BEAMS DETAILS

Notes

- ## REVISION



PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

Sheet No.	Discipline	Project Phase
S34	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE

TITLE

RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S35	STRS	DESIGN

DESIGNED BY :

FEDEEMS

DRAWN BY :

FEDEEMS

CHECKED BY :

B.F.A

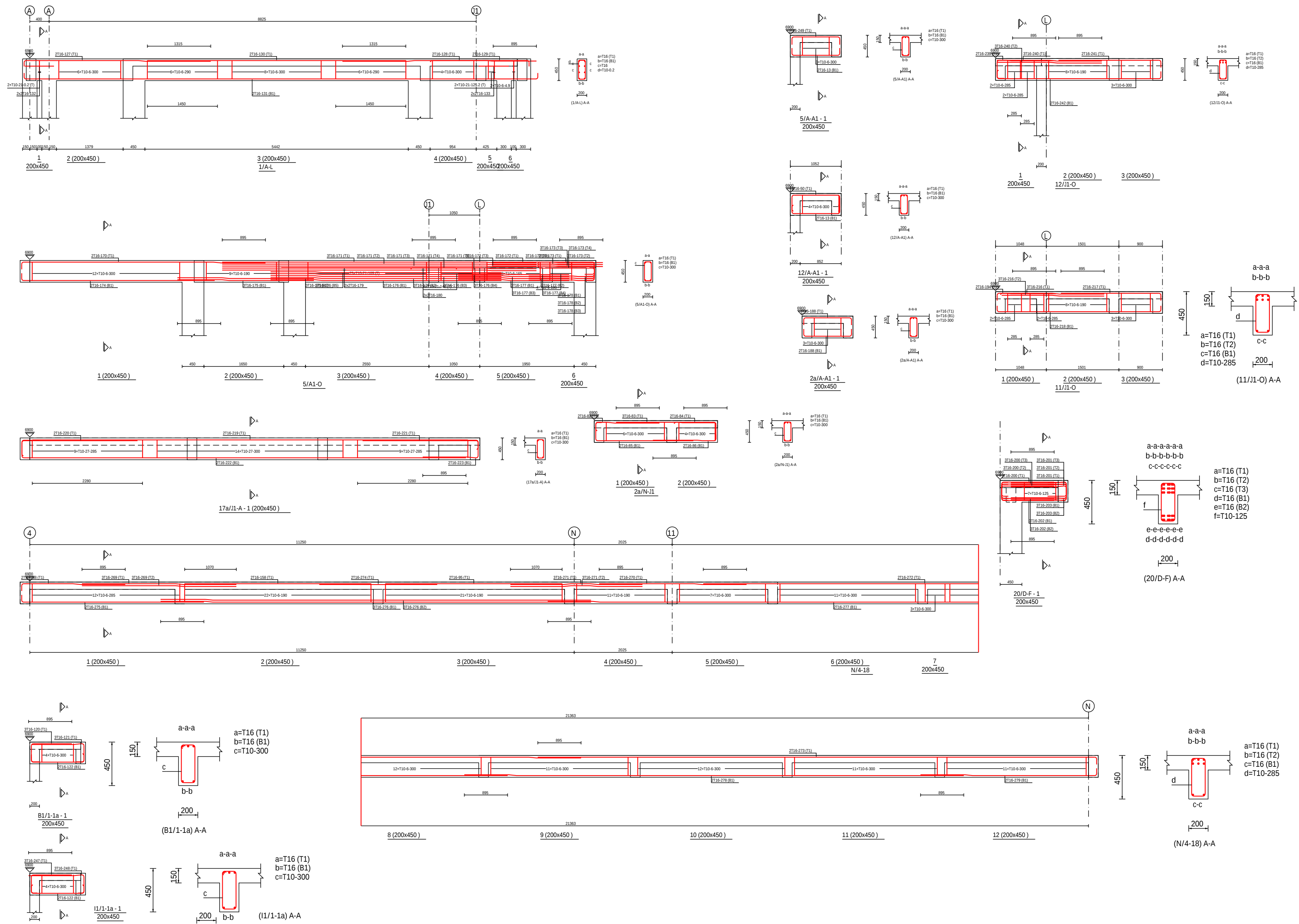
DATE :

MAY , 2025

SCALE :

1:200

PROJECT ID :



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
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REVISION

Rev	Date	Description	Initials
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MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

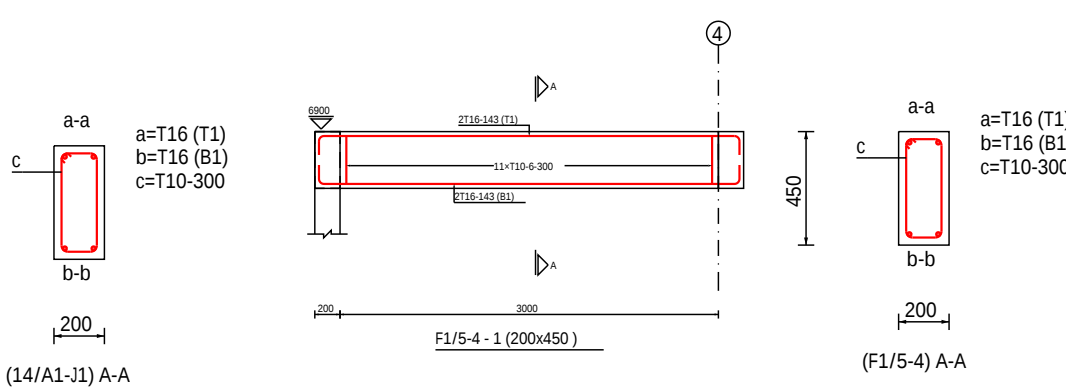
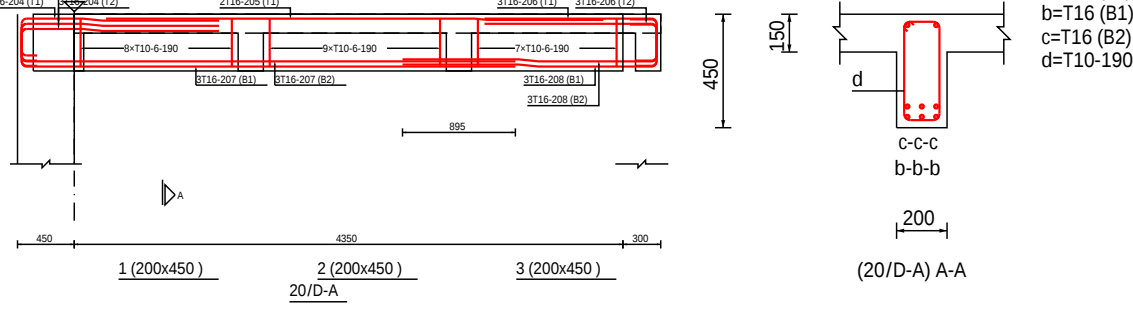
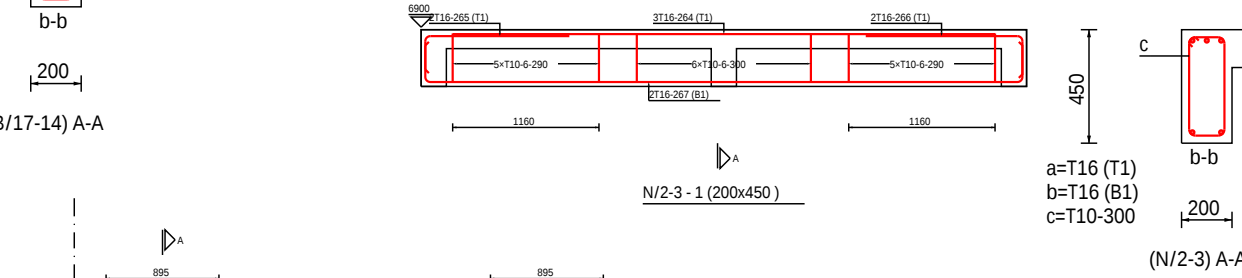
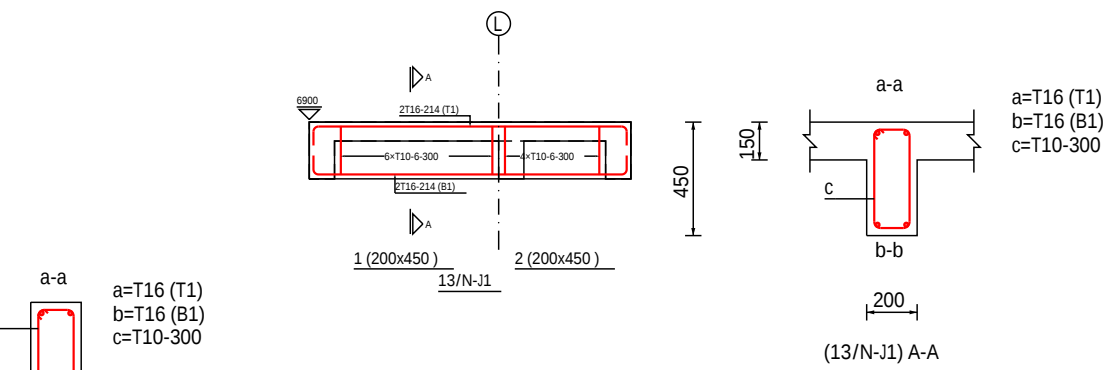
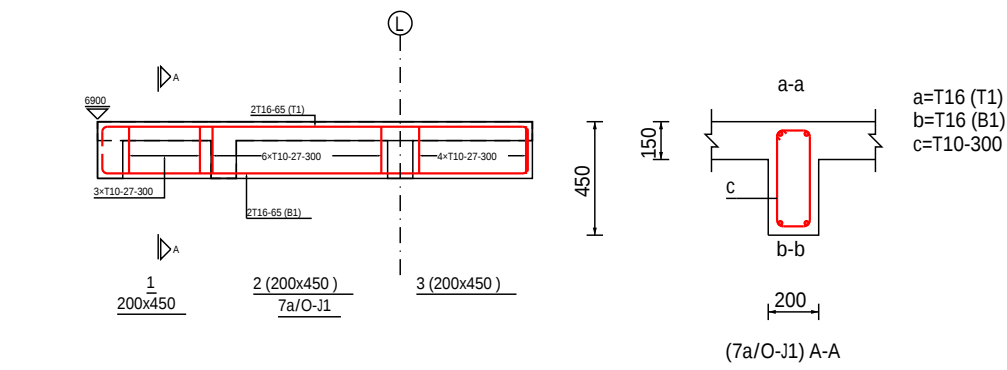
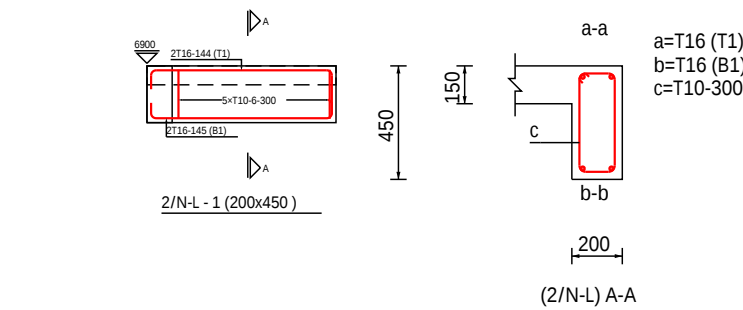
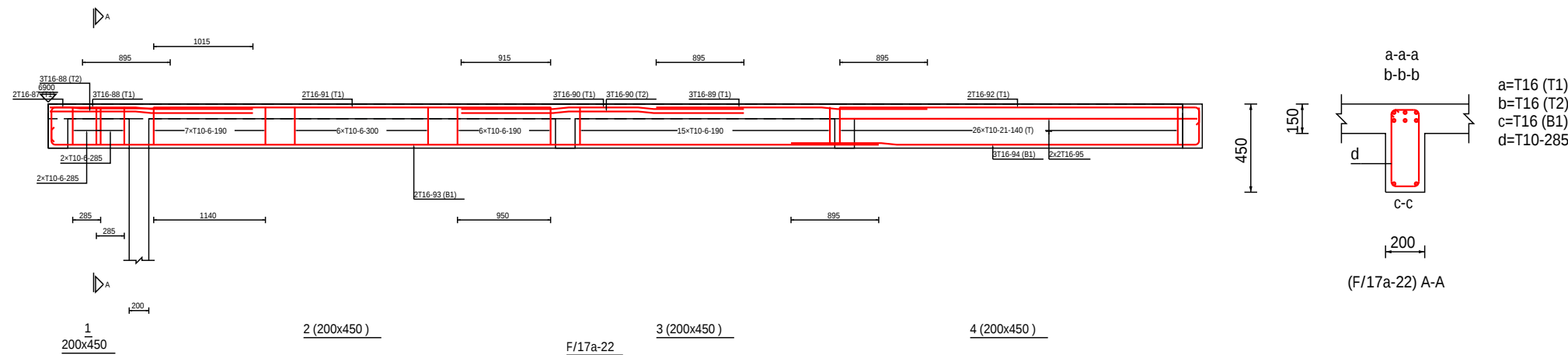
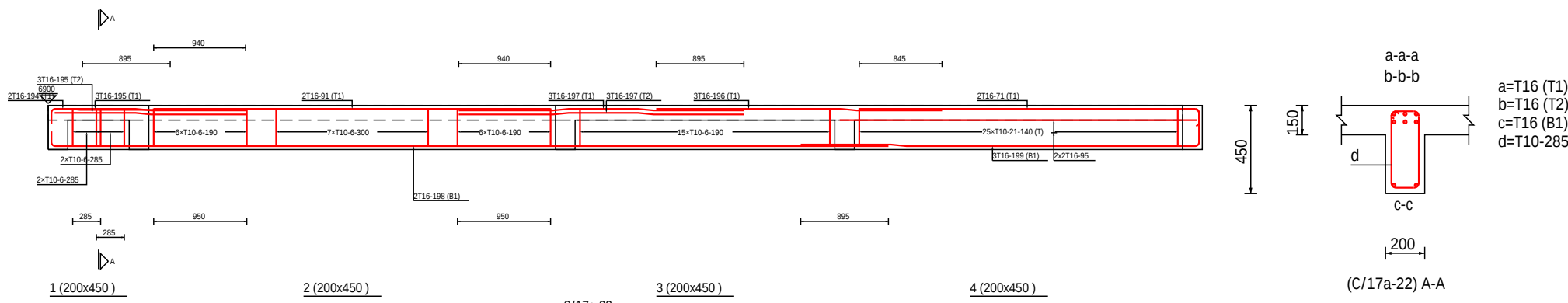
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S36	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

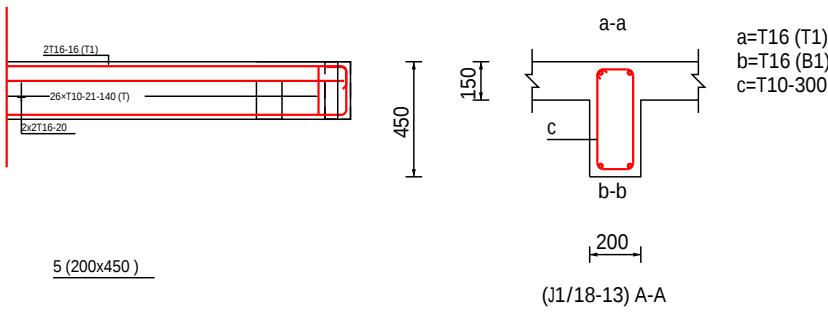
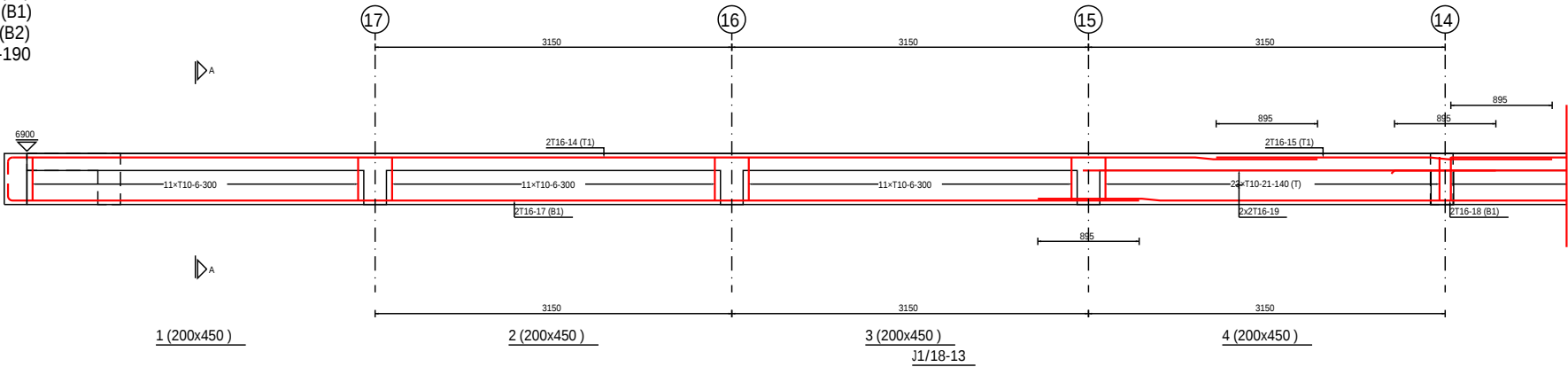
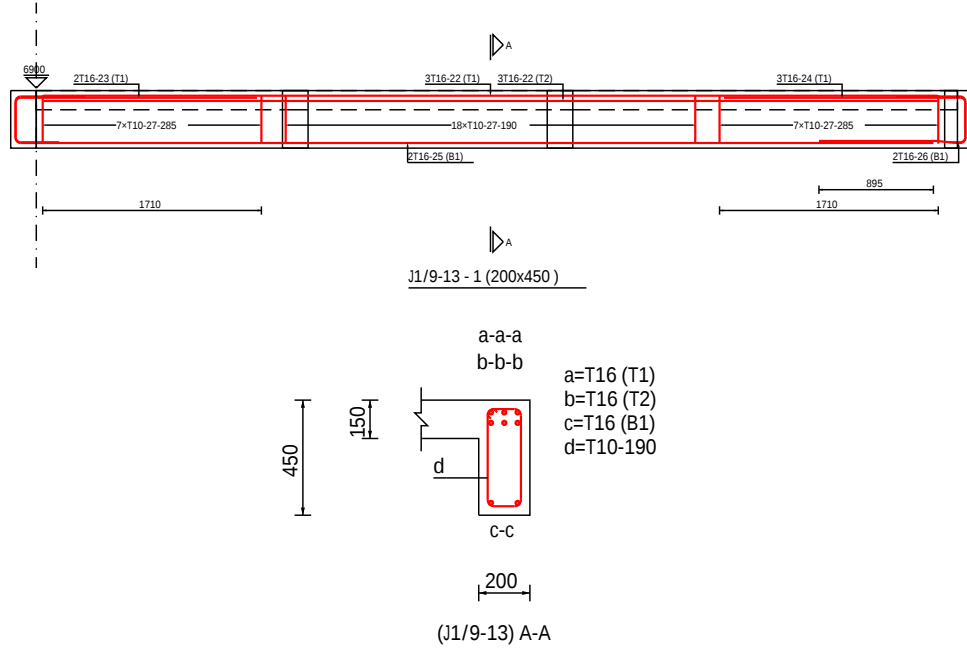
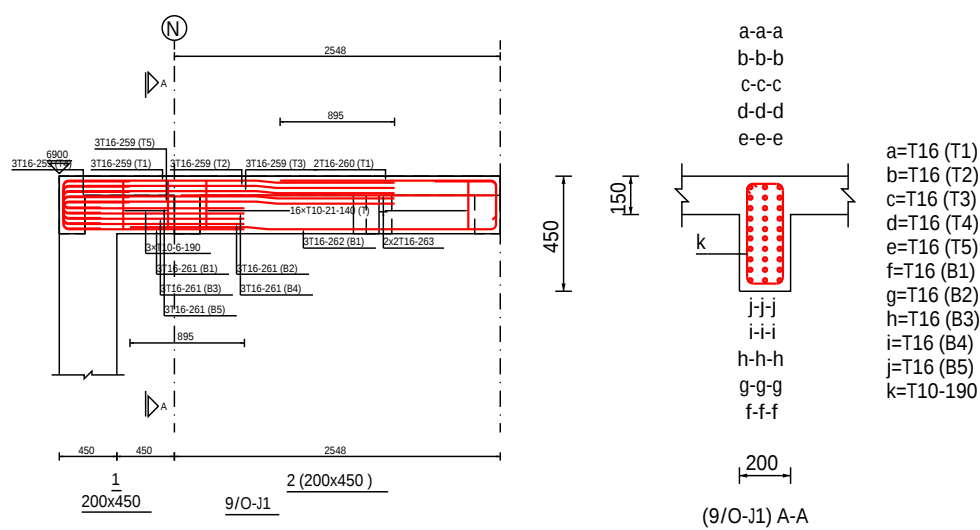
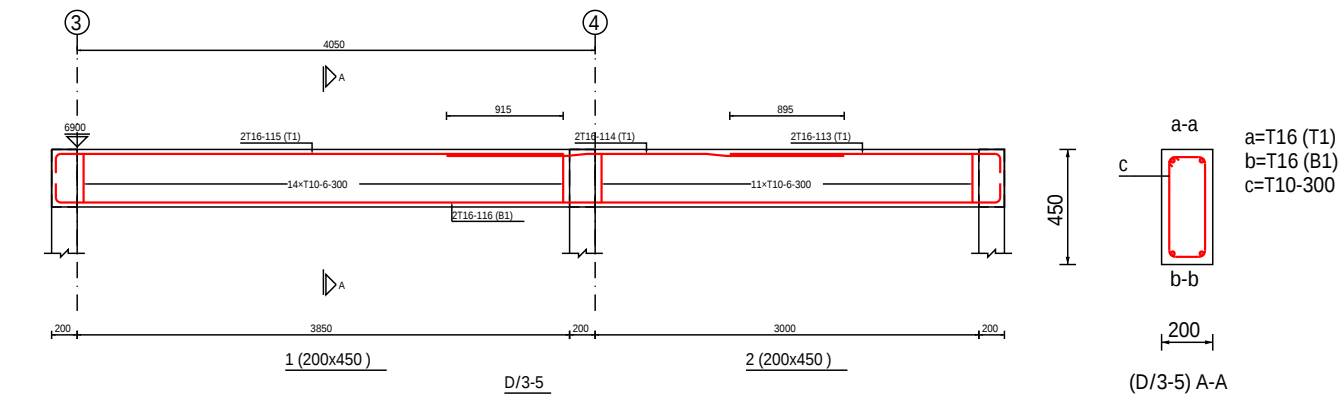
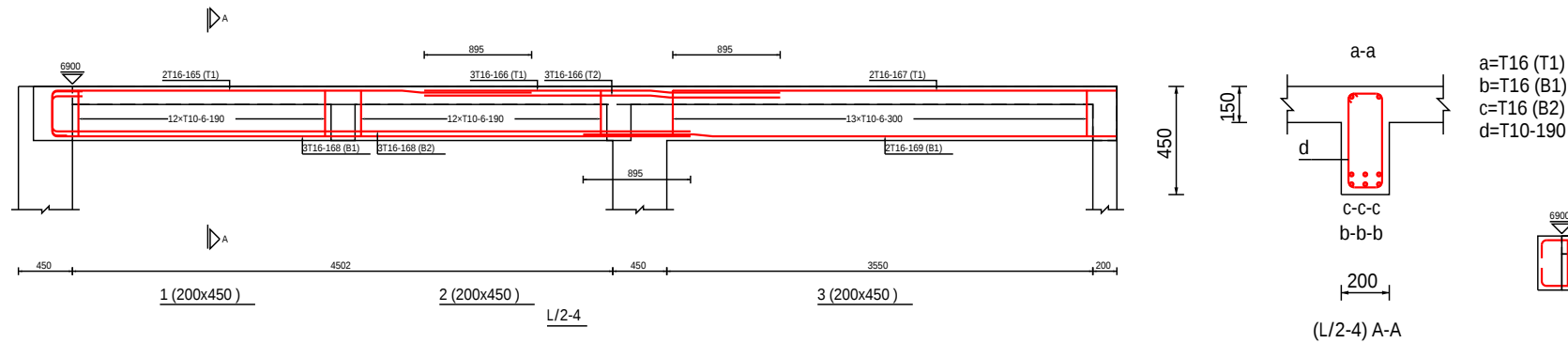
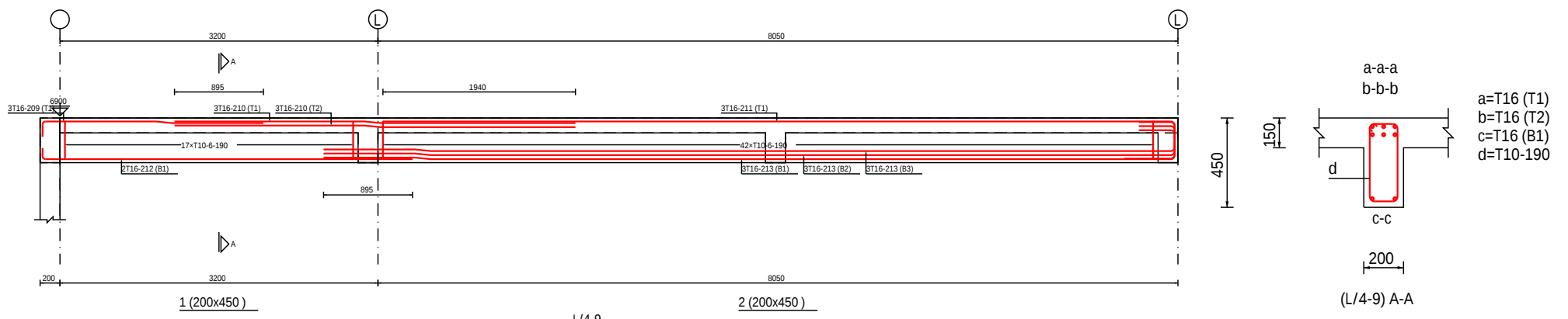
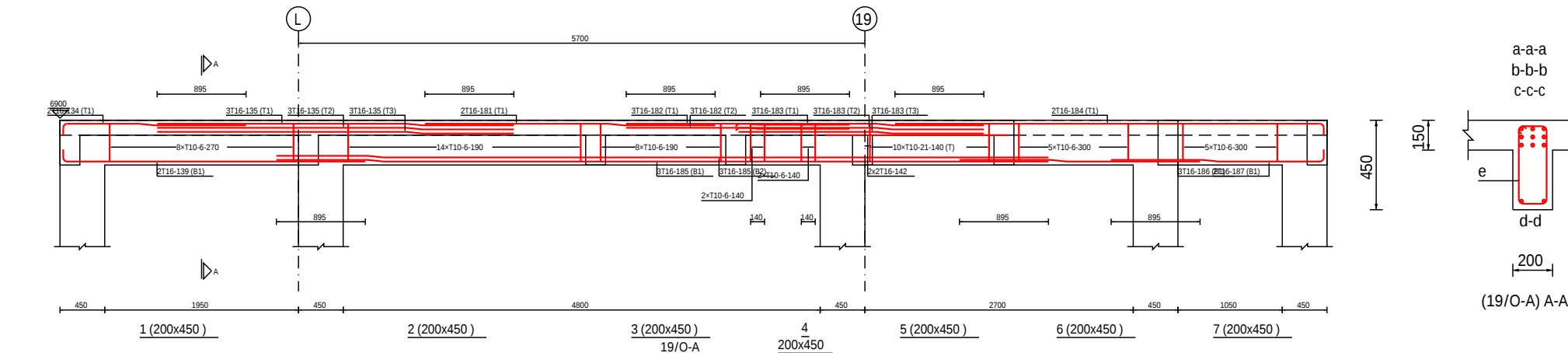
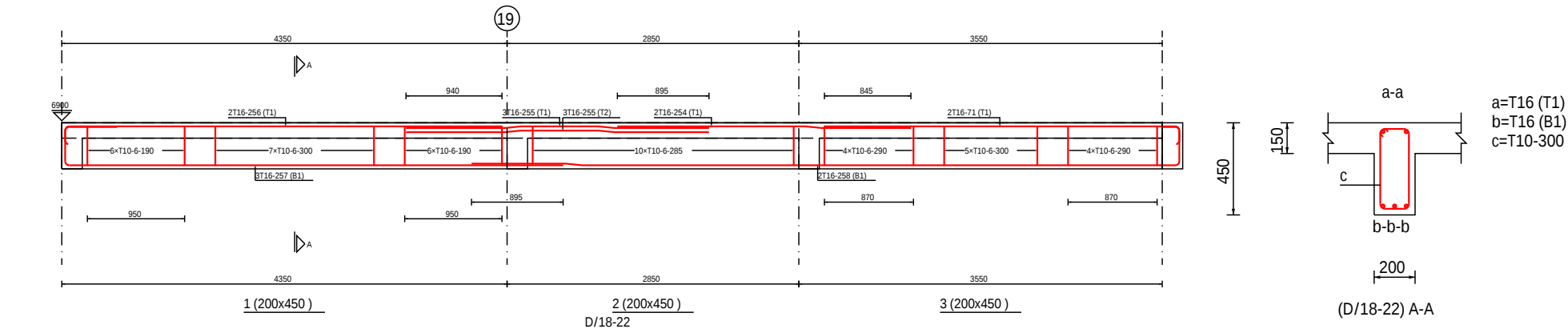
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S37	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
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REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

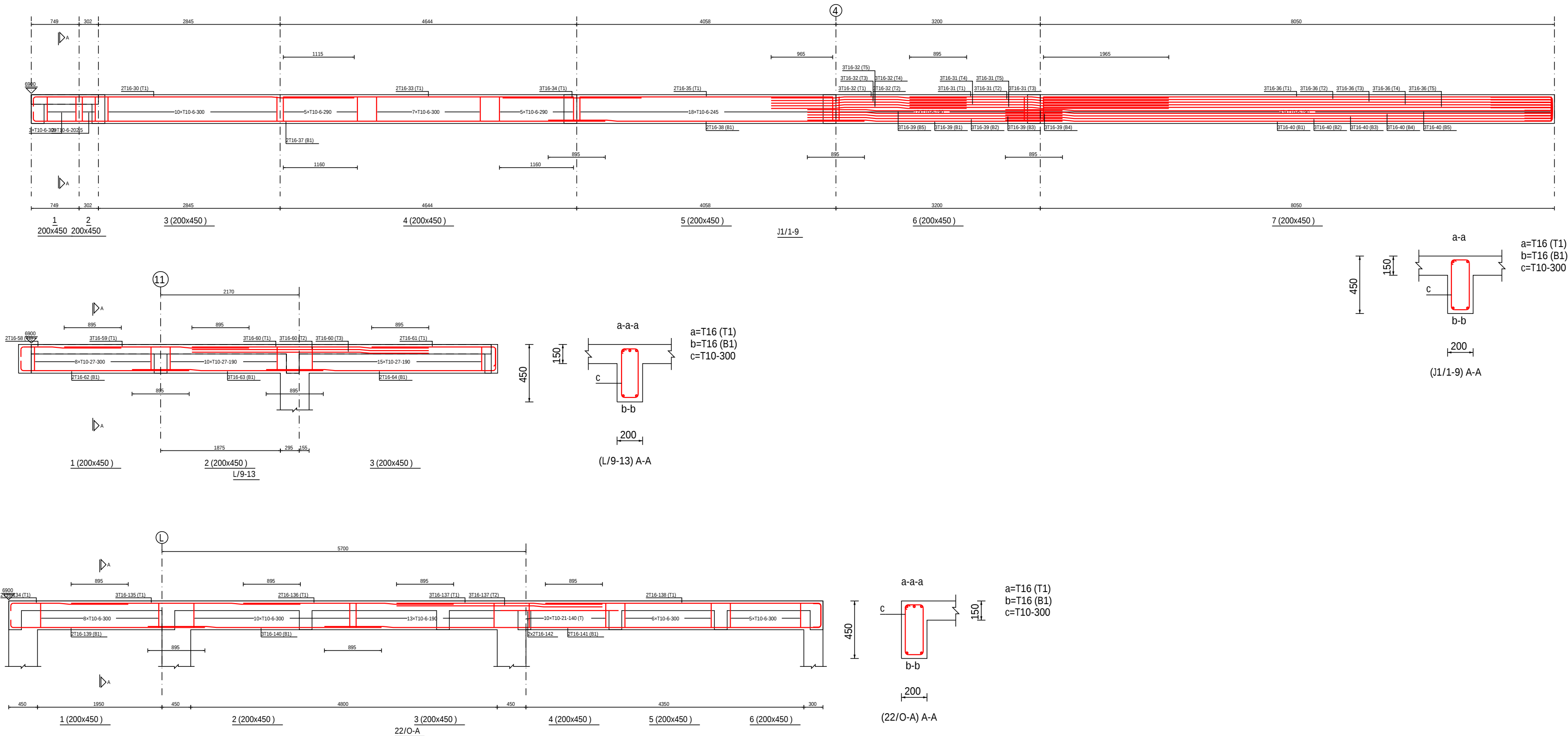
PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

RF-BEAMS DETAILS

Sheet No.	Discipline	Project Phase
S38	STRS	DESIGN

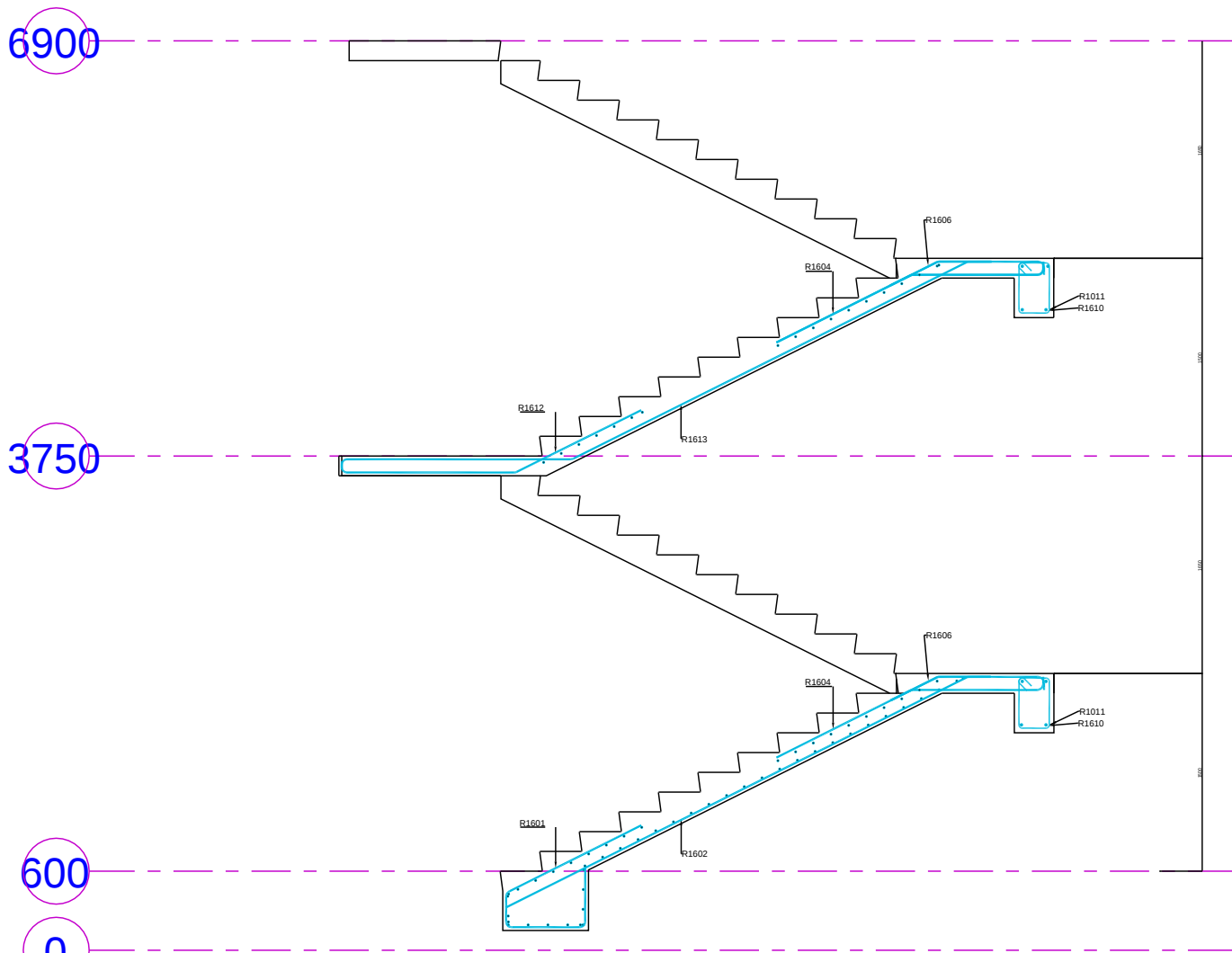
DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	



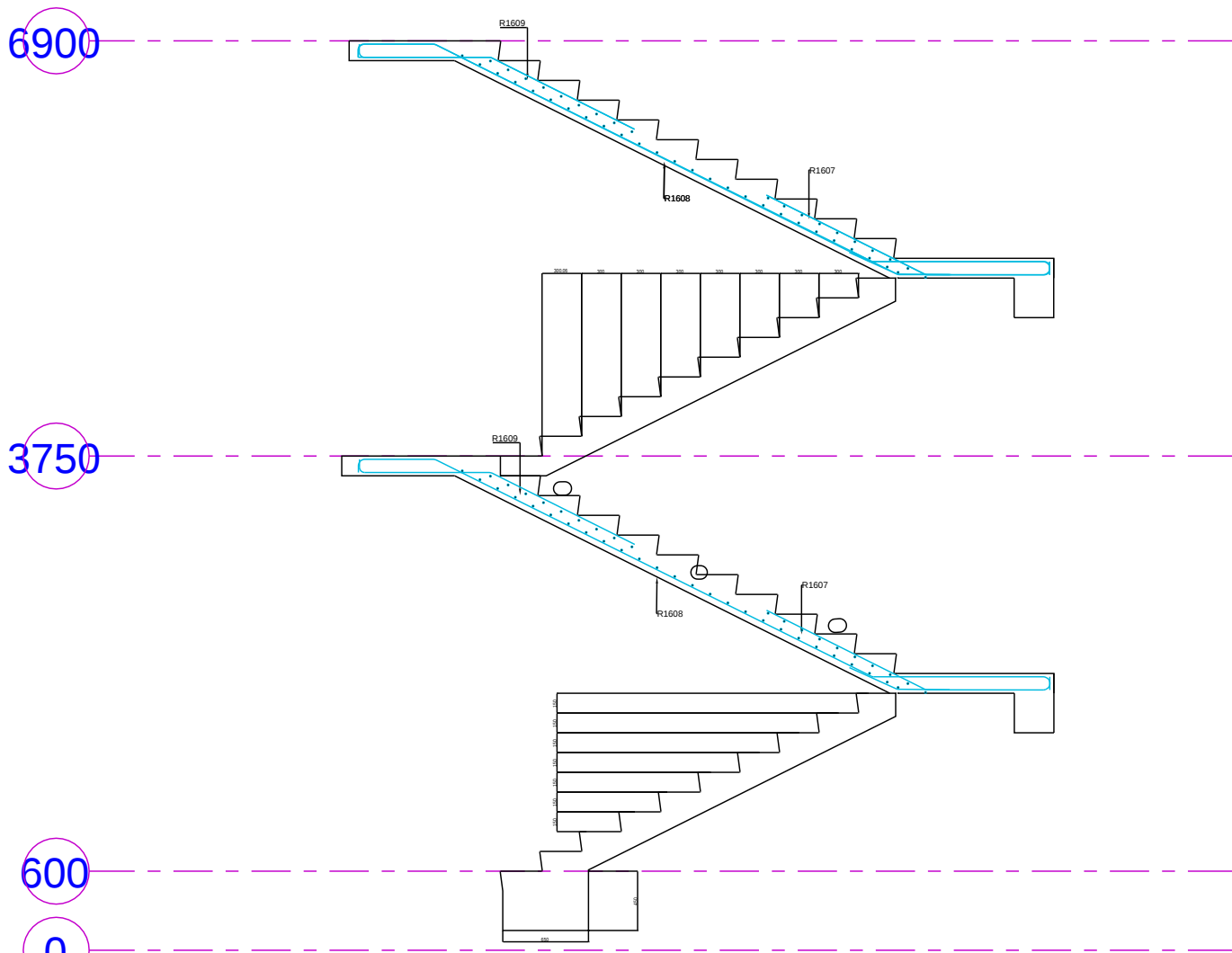
Type	Unit Mass [kg/m]	Total Length [mm]	Total Mass [kg]
T10	0.620	2.692E+06	1668.98
T16	1.580	4.335E+06	6849.30
Grand Total		8518.28	

Mark	Type	Quantity	Length [mm]	Total Length [mm]	Shape	Members
1	T16	2	2300.0	4600.0	99	J/2-1
2	T16	9	2950.0	26550.0	26	J/2-1
3	T16	6	1250.0	7500.0	99	J/2-1
4	T16	6	4000.0	24000.0	21	J/2-1
5	T16	3	1850.0	5550.0	99	J/2-1
6	T10	1728	1300.0	2.246E+06	51	1/A-1, 1a/A-1, 1a/L-1, 2/A-A1, 2/L-1, 2/N-L, 2a/A-A1, 2a/N-1, 3/A1-N, 3/A-A1, 3a/A-A1, 4/A-O, 5/A1-O, 5/A-A1, 7/A-A1, 9/O-1, 10/A-A1, 11/J1-O, 12/A-A1, 12/J1-O, 13/A-A1, 13/N-1, 13a/N-1, 14/A1-1, 14/A-A1, 14/N-1, 15/A-B, 15/N-1, 16/A-B, 16/N-1, 17/A-B, 17/N-1, 18/A-O, 19/O-A, 20/D-A, 20/D-F, 20/F-L, 20/L-O, 22/O-A, A1/1a-12, A1/12-17a, A/1-22, B1/1-1a, B/17-14, B/19-22, C/17a-22, D/3-5, D/18-22, F1/5-4, F/17a-22, H/18-19, I/1-1a, I/20-22, J1/1-9, J1/18-13, J/2-1, J/2-4, L/4-8, L/18-22, N/2-3, N/4-18, O/4-12, O/18-22
7	T16	2	5100.0	10200.0	99	3/A1-N
8	T16	3	2250.0	6750.0	26	3/A1-N
9	T16	2	4100.0	8200.0	99	3/A1-N
10	T16	2	4600.0	9200.0	0	3/A1-N
11	T16	2	11400.0	22800.0	21	3/A1-N
12	T16	3	1450.0	4350.0	21	10/A-A1
13	T16	21	1300.0	27300.0	21	3a/A-A1, 5/A-A1, 10/A-A1, 12/A-A1, 13/A-A1, 14/A-A1
14	T16	2	11700.0	23400.0	99	J1/18-13
15	T16	2	3000.0	6000.0	26	J1/18-13
16	T16	2	3850.0	7700.0	99	J1/18-13
17	T16	2	10150.0	20300.0	99	J1/18-13
18	T16	2	7850.0	15700.0	99	J1/18-13
19	T16	4	3650.0	14600.0	0	J1/18-13
20	T16	4	4200.0	16800.0	0	J1/18-13
21	T10	220	1400.0	308000.0	63	11/A-1, 5/A1-O, 9/O-1, 19/O-A, 22/O-A, A1/1a-12, A1/12-17a, C/17a-22, F/17a-22, J1/18-13
22	T16	6	7000.0	42000.0	0	J1/9-13
23	T16	2	2550.0	5100.0	21	J1/9-13
24	T16	3	2350.0	7050.0	21	J1/9-13
25	T16	2	8100.0	16200.0	21	J1/9-13
26	T16	2	2050.0	4100.0	99	J1/9-13
27	T10	110	1250.0	137500.0	51	7a/O-1, 17a/J1-A, J1/9-13, L/9-13
28	T16	2	8900.0	17800.0	21	14/A1-1
29	T16	2	8900.0	17800.0	21	14/A1-1
30	T16	2	5200.0	10400.0	99	J1/1-9
31	T16	15	4100.0	61500.0	26	J1/1-9
32	T16	15	3100.0	46500.0	46	J1/1-9
33	T16	2	4550.0	9100.0	0	J1/1-9
34	T16	3	2200.0	6600.0	0	J1/1-9
35	T16	2	4000.0	8000.0	0	J1/1-9
36	T16	15	8600.0	129000.0	21	J1/1-9
37	T16	2	9100.0	18200.0	99	J1/1-9
38	T16	2	5000.0	10000.0	26	J1/1-9
39	T16	15	4000.0	60000.0	26	J1/1-9
40	T16	15	9750.0	146250.0	99	J1/1-9
41	T16	2	11750.0	23500.0	99	4/A-O
42	T16	2	2100.0	4200.0	11	4/A-O
43	T16	2	10900.0	21800.0	99	4/A-O
44	T16	2	3000.0	6000.0	34	4/A-O
45	T16	2	2000.0	4000.0	99	14/N-1
46	T16	24	2650.0	63600.0	26	14/N-1, 15/N-1, 16/N-1, 17/N-1
47	T16	2	1000.0	2000.0	99	14/N-1
48	T16	2	2650.0	5300.0	21	14/N-1
49	T16	2	1350.0	2700.0	99	14/N-1
50	T16	3	1600.0	4800.0	21	12/A-A1
51	T16	6	4100.0	24600.0	26	A/1-22, L/18-22, O/18-22
52	T16	12	3050.0	36600.0	46	J/18-22, O/18-22
53	T16	4	2450.0	9800.0	99	J/18-22, O/18-22
54	T16	2	4750.0	9500.0	21	J/18-22
55	T16	6	5400.0	32400.0	21	J/18-22
56	T16	4	3750.0	15000.0	26	J/18-22, O/18-22
57	T16	3	4550.0	13650.0	99	J/18-22
58	T16	2	1750.0	3500.0	99	J/9-13
59	T16	3	2900.0	8700.0	26	J/9-13
60	T16	9	3750.0	33750.0	26	J/9-13
61	T16	2	2200.0	4400.0	99	J/9-13
62	T16	2	2800.0	5600.0	99	J/9-13
63	T16	3	3000.0	9000.0	26	J/9-13
64	T16	2	3950.0	7900.0	99	J/9-13
65	T16	4	3900.0	15600.0	21	7a/O-1
66	T16	6	1600.0	9600.0	21	3/A-A1, 7/A-A1
67	T16	4	1350.0	5400.0	21	3/A-A1, 7/A-A1
68	T16	8	2150.0	17200.0	21	15/A-B, 16/A-B, 17/A-B
69	T16	2	2300.0	4600.0	21	17/A-B
70	T16	2	4250.0	8500.0	99	B/19-22
71	T16	6	3650.0	21900.0	99	B/19-22, C/17a-22, D/18-22
72	T16	2	3700.0	7400.0	99	B/19-22
73	T16	3	4550.0	13650.0	99	B/19-22
74	T16	2	4500.0	9000.0	99	A1/12-17a
75	T16	4	4050.0	16200.0	26	A1/12-17a, A/1-22
76	T16	2	9300.0	18600.0	46	A1/12-17a
77	T16	2	4600.0	9200.0	99	A1/12-17a
78	T16	2	3400.0	6800.0	0	A1/12-17a
79	T16	2	10900.0	21800.0	21	A1/12-17a
80	T16	2	9300.0	18600.0	99	A1/12-17a
81	T16	4	3150.0	12600.0	0	A1/12-17a
82	T16	2	1450.0	2900.0	99	2a/N-1
83	T16	3	2300.0	6900.0	26	2a/N-1
84	T16	2	1200.0	2400.0	99	2a/N-1
85	T16	2	2500.0	5000.0	21	2a/N-1
86	T16	2	1450.0	2900.0	34	2a/N-1
87	T16	2	1550.0	3100.0	99	F/17a-22
88	T16	6	2100.0	12600.0	26	F/17a-22
89	T16	3	2800.0	8400.0	26	F/17a-22
90	T16	6	2900.0	17400.0	46	F/17a-22
91	T16	6	4050.0	24300.0	0	C/17a-22, F/17a-22, H/18-19
92	T16	2	3800.0	7600.0	99	F/17a-22
93	T16	2	8600.0	17200.0	99	F/17a-22
94	T16	3	4550.0	13650.0	99	F/17a-22
95	T16	10	3650.0	36500.0	0	C/17a-22, F/17a-22, N/4-18
96	T16	3	3400.0	10200.0	21	20/L-O
97	T16	2	3000.0	6000.0	21	20/L-O
98	T16	2	7050.0	14100.0	99	A1/1a-12
99	T16	3	3000.0	9000.0	26	A1/1a-12

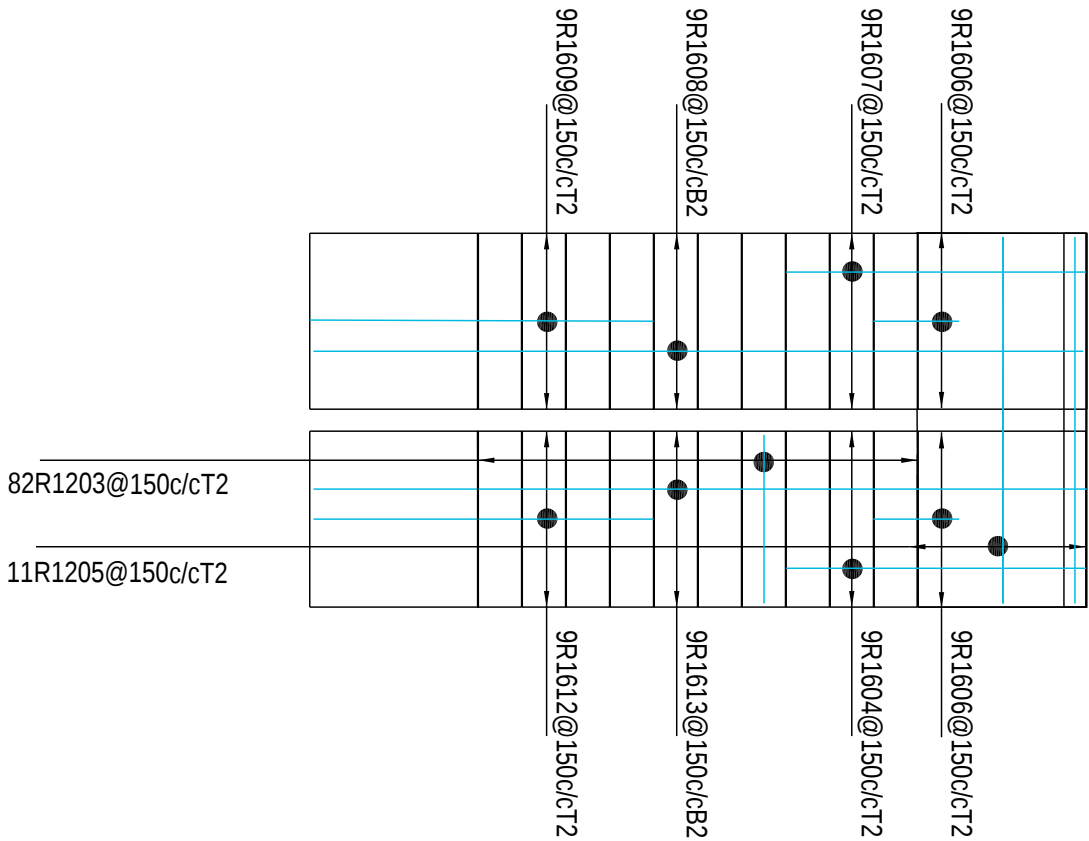
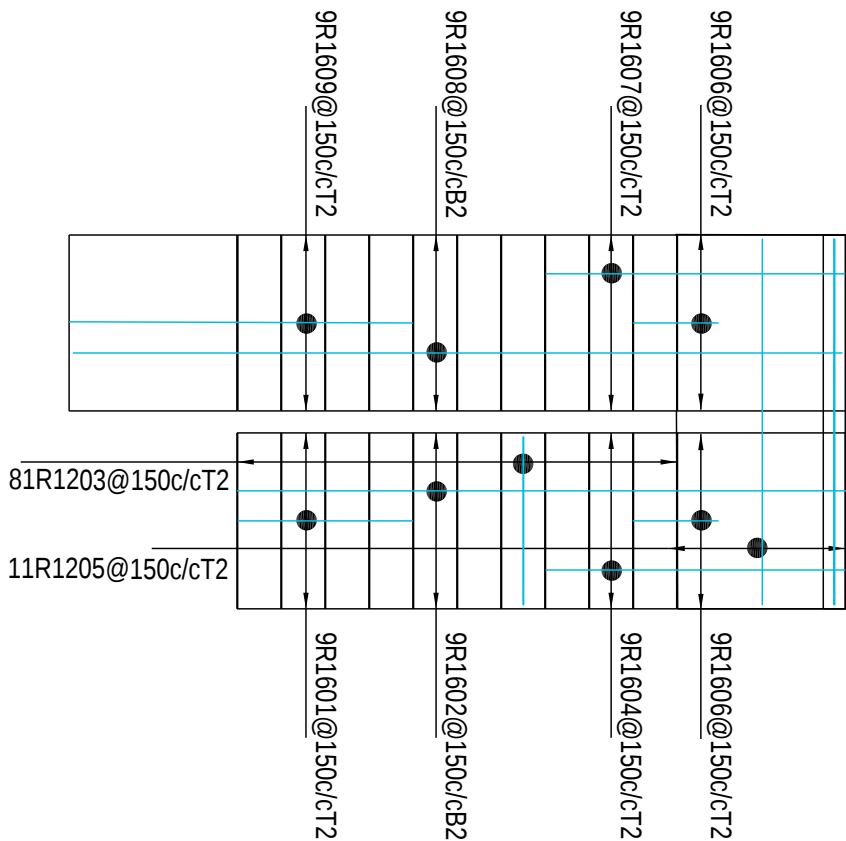
100	T16	2	7650.0	15300.0	26	A1/1a-12
101	T16	2	2200.0	4400.0	99	A1/1a-12
102	T16	2	3300.0	6600.0	46	A1/1a-12
103	T16	2	3450.0	6900.0	0	A1/1a-12
104	T16	2	2450.0	4900.0	0	A1/1a-12
105	T16	2	5400.0	10800.0	0	A1/1a-12
106	T16	3	6300.0	18900.0	21	A1/1a-12
107	T16	2	10300.0	20600.0	26	A1/1a-12
108	T16	2	10350.0	20700.0	26	A1/1a-12
109	T16	2	3500.0	7000.0	34	A1/1a-12
110	T16	4	2200.0	8800.0	0	A1/1a-12
111	T16	4	3850.0	15400.0	0	A1/1a-12
112	T16	5	1300.0	6500.0	21	2/A-A1
113	T16	2	2250.0	4500.0	99	D/3-5
114	T16	2	3150.0	6300.0	46	D/3-5
115	T16	2	4150.0	8300.0	99	D/3-5
116	T16	2	7700.0	15400.0	21	D/3-5
117	T16	2	1550.0	3100.0	99	15/N-1
118	T16	6	900.0	5400.0	99	15/N-1, 16/N-1, 17/N-1
119	T16	2	2800.0	5600.0	21	15/N-1
120	T16	3	1350.0	4050.0	21	B1/1-1a
121	T16	3	1650.0	4950.0	99	B1/1-1a
122	T16	4	1400.0	5600.0	21	B1/1-1a, I1/1-1a
123	T16	2	9900.0	19800.0	21	B/17-14
124	T16	2	9650.0	19300.0	21	B/17-14
125	T16	3	1450.0	4350.0	21	1a/L-1
126	T16	2	1200.0	2400.0	21	1a/L-1
127	T16	2	4000.0	8000.0	34	J1/A-1
128	T16	2	2200.0	4400.0	26	J1/A-1
129	T16	2	4000.0	8000.0	34	J1/A-1
130	T16	2	5350.0	10700.0	0	J1/A-1
131	T16	2	10850.0	21700.0	21	J1/A-1
132	T16	4	600.0	2400.0	0	J1/A-1
133	T16	4	650.0	2600.0	0	J1/A-1
134	T16	4	1950.0	7800.0	34	19/O-A, 22/O-A
135	T16	12	3600.0	43200.0	26	19/O-A, 22/O-A
136	T16	2	3300.0	6600.0	26	22/O-A
137	T16	6	3250.0	19500.0	26	22/O-A
138	T16	2	4800.0	9600.0	21	22/O-A
139	T16	4	3150.0	12600.0	11	19/O-A, 22/O-A
140	T16	3	3700.0	11100.0	26	22/O-A
141	T16	2	8250.0	16500.0	99	22/O-A
142	T16	8	1850.0	14800.0	0	19/O-A, 22/O-A
143	T16	4	3650.0	14600.0	21	F1/5-4
144	T16	2	1950.0	3900.0	21	2/N-L
145	T16	2	1650.0	3300.0	21	2/N-L
146	T16	2	4600.0	9200.0	26	A/1-22
147	T16	6	4650.0	27900.0	46	A/1-22
148	T16	2	7350.0	14700.0	26	A/1-22
149	T16	2	3700.0	7400.0	26	A/1-22
150	T16	2	3450.0	6900.0	46	A/1-22
151	T16	2	9850.0	19700.0	46	A/1-22
152	T16	2	7700.0	15400.0	34	A/1-22
153	T16	2	8900.0	17800.0	21	A/1-22
154	T16	2	5150.0	10300.0	0	A/1-22
155	T16	2	6200.0	12400.0	0	A/1-22
156	T16	2	5850.0	11700.0	0	A/1-22
157	T16	2	2950.0	5900.0	0	A/1-22
158	T16	4	3850.0	15400.0	0	A/1-22, N/4-18
159	T16	3	9450.0	28350.0	21	A/1-22
160	T16	2	11850.0	23700.0	26	A/1-22
161	T16	2	9450.0	18900.0	26	A/1-22
162	T16	2	10800.0	21600.0	26	A/1-22
163	T16	2	10450.0	20900.0	26	A/1-22
164	T16	2	11300.0	22600.0	34	A/1-22
165	T16	2	4500.0	9000.0	99	L/2-4
166	T16	6	3000.0	18000.0	26	L/2-4
167	T16	2	4400.0	8800.0	0	L/2-4
168	T16	6	5900.0	35400.0	21	L/2-4
169	T16	2	5150.0	10300.0	26	L/2-4
170	T16	2	5200.0	10400.0	99	5/A1-O
171	T16	15	6500.0	97500.0	26	5/A1-O
172	T16	9	2300.0	20700.0	26	5/A1-O
173	T16	12	1600.0	19200.0	21	5/A1-O
174	T16	2	4150.0	8300.0	99	5/A1-O
175	T16	6	2850.0	17100.0	26	5/A1-O
176	T16	15	4800.0	72000.0	26	5/A1-O
177	T16	12	2300.0	27600.0	26	5/A1-O
178	T16	9	1950.0	17550.0	99	5/A1-O
179	T16	4	3600.0	14400.0	0	5/A1-O
180	T16	4	1450.0	5800.0	0	5/A1-O
181	T16	2	2950.0	5900.0	26	19/O-A
182	T16	6	2250.0	13500.0	26	19/O-A
183	T16	9	2500.0	22500.0	11	19/O-A
184	T16	2	4450.0	8900.0	26	19/O-A
185	T16	6	7800.0	46800.0	26	19/O-A
186	T16	3	2450.0	7350.0	26	19/O-A
187	T16	2	2250.0	4500.0	34	19/O-A
188	T16	5	1300.0	6500.0	21	28/A-A1
189	T16	2	3750.0	7500.0	0	20/F-L
190	T16	2	1650.0	3300.0	99	20/F-L
191	T16	9	1950.0	17550.0	21	20/F-L
192	T16	6	4750.0	28500.0	21	20/F-L
193	T16	6	1800.0	10800.0	99	20/F-L
194	T16	4	1350.0	5400.0	99	11/I1-O, C/17a-22
195	T16	6	1950.0	11700.0	26	C/17a-22
196	T16	3	2950.0	8850.0	26	C/17a-22
197	T16	6	2950.0	17700.0	46	C/17a-22
198	T16	2	8700.0	17400.0	99	C/17a-22
199	T16	3	4550.0	13650.0	99	C/17a-22



STAIRCASE DETAILING



STAIRCASE DETAILING



Mark	Grade	Dia [mm]	Total number	Cutting length [mm]	Total length [mm]	Total mass [kg]	Bending shape [mm]
⊙	R	16	9	2413	21715	34.27	
⊙	R	16	9	4571	41141	64.93	
⊙	R	12	163	1150	187450	166.42	
⊙	R	16	81	2224	180137	284.32	
⊙	R	12	22	2500	95000	48.83	
⊙	R	16	36	799	28779	45.42	
⊙	R	16	18	2369	42641	67.3	
⊙	R	16	18	5789	104197	164.46	
⊙	R	16	18	2299	41379	65.31	
⊙	R	10	36	1406	50602	31.2	
⊙	R	16	8	2500	20000	31.57	
⊙	R	16	9	2448	22034	34.78	
⊙	R	16	9	5818	52363	82.65	

Total mass = 1121 kg

Grade	Dia [mm]	Total length [mm]	Total mass [kg]
R	10	60602	31.2
R	12	242450	215.25
R	16	554386	875.01

GENERAL

Notes

1. Do not scale from drawings. Only figured dimensions to be worked to. When in doubt consult the Architect
2. All dimensions are in millimeters
3. All dimensions and levels shall be checked & verified before building work commences
4. All timber attached to brick/blockwork must be coated with wood primer

REVISION

Rev	Date	Description	Initials
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CLIENT

MINISTRY OF LOCAL
GOVERNMENT CHIEFTAINCY &
RELIGIOUS AFFAIRS

PROJECT

PROPOSED 24-HOUR
ECONOMY MARKET &
COMMERCIAL CENTRE

TITLE

STAIRCASE DETAILING

Sheet No.	Discipline	Project Phase
S40	STRS	DESIGN

DESIGNED BY :	FEDEEMS
DRAWN BY :	FEDEEMS
CHECKED BY :	B.F.A
DATE :	MAY , 2025
SCALE :	1:200
PROJECT ID :	