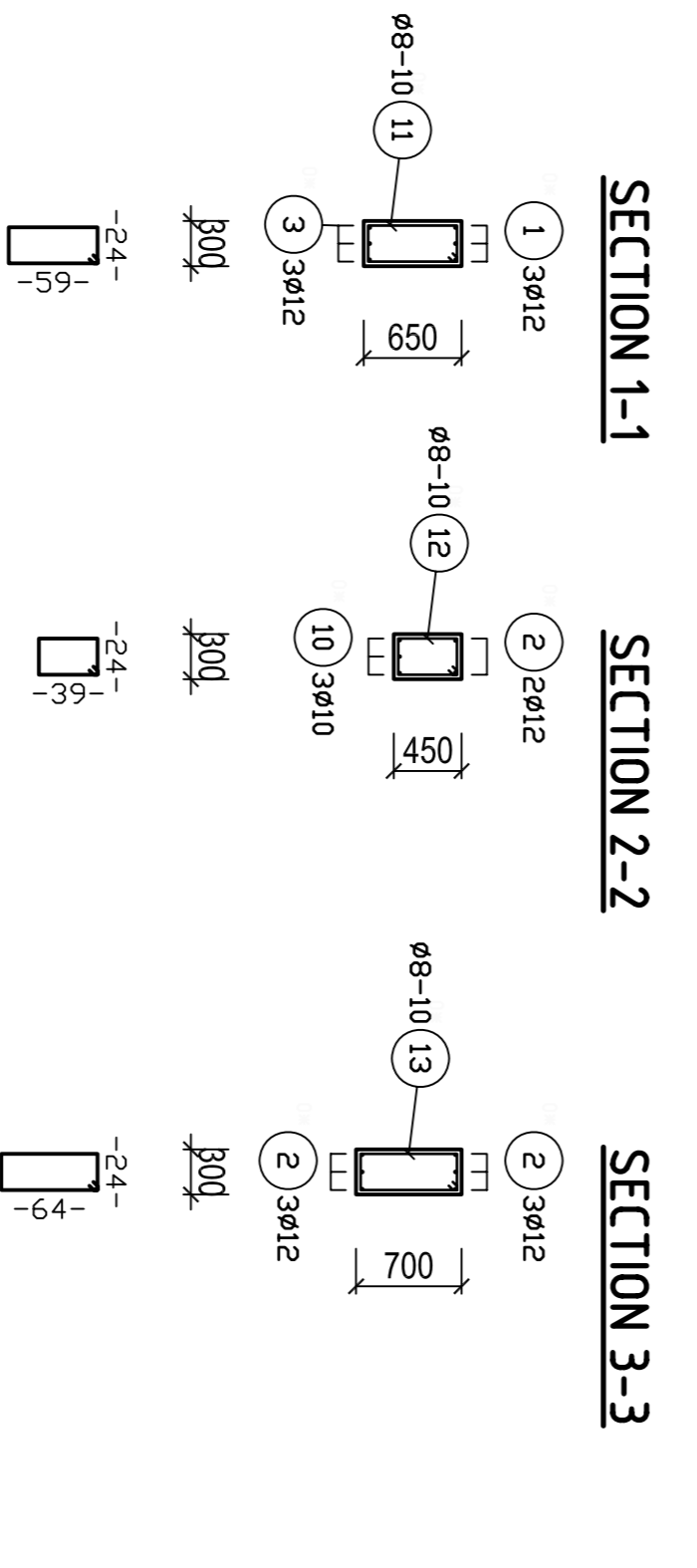
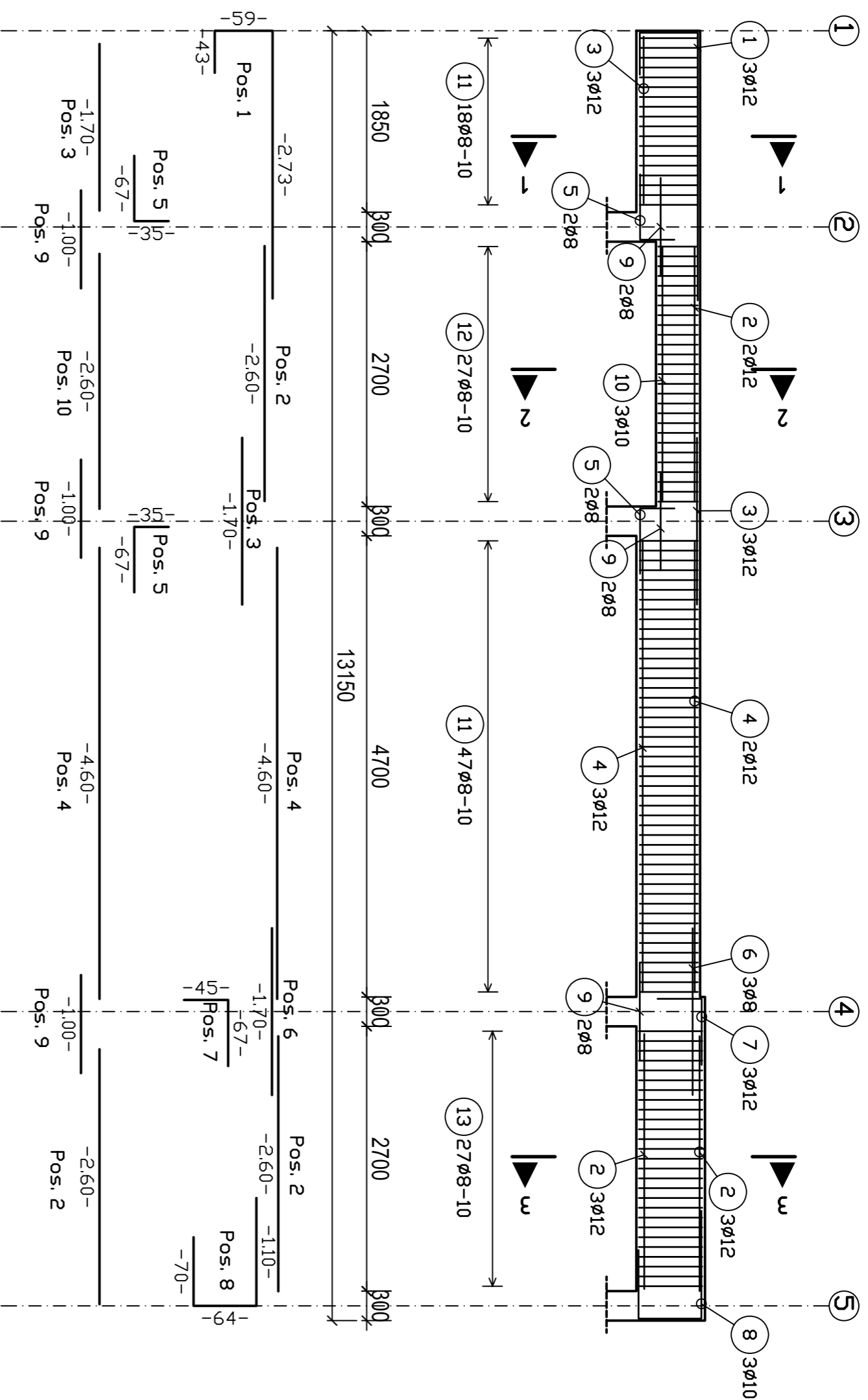


BEAM



NOTE:

- ANY CHANGES OF THE BENDING FORM NEED THE APPROVAL OF THE ENGINEER OR STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.
- CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS, ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER.
- FIX REINFORCEMENT AS SHOWN IN DRAWING
- MAINTAIN COVER TO ALL PIPES; CONDUITS; REGLETS; DRIP GROOVES ETC.

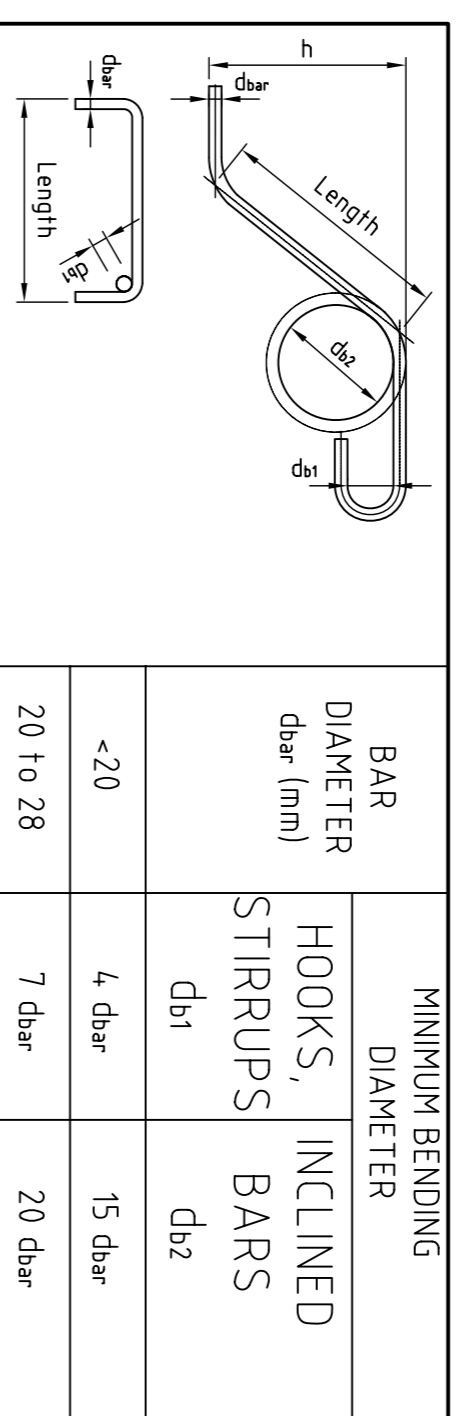
11 65Ø8,L=1.82m Grade 40 12 27Ø8,L=1.42m Grade 40 13 27Ø8,L=1.92m Grade 40

Pos. No.	d	Length	dev type	shape code	Total	Weight
1	3	1.2	A1	67	4.18	1.612
2	4	8	A1	67	5.10	2.015
3	3	8	A1	1.70	118.30	46.753
4	65	8	B1	59	38.34	15.144
5	27	8	B1	39	51.84	20.477
6	27	8	B1	64		
Total weight (kg)						86.976

Pos. No.	d	Length	dev type	shape code	Total	Weight
1	3	1.2	A1	67	11.25	9.390
2	4	8	A1	67	20.80	18.470
3	6	12	A1	2.60	10.20	9.059
4	5	12	A1	1.70	23.00	20.424
5	3	12	A2	4.80	3.56	2.964
6	3	10	A3	1.10	7.32	4.516
7	3	10	A1	70	6.00	2.370
8	3	10	A1	2.60	7.80	4.813
Total weight (kg)						72.665

REFERENCE DRAWINGS

DRW - No.:	DESCRIPTION:



THIS DRAWING BELONGS TO:

FORMWORK DWG No.:

STRUCTURAL ANALYSIS:

BAR POSITION:

STEEL GRADE: ASTM A 615/615M-04 Grade 60

ELEMENT :	CONCRETE	CONCRETE COVER (cm)			
BEAM	C25/30	top	bottom	lateral	inside/outside
		3.0	3.0	3.0	-

No.	REVISION	DESCRIPTION
a		
b		
c		
d		
e		

NAME	DATE	NAME	DATE

PREPARED: CHANGED: CHECKED:

STRUCTURAL DESIGN

ATTA - Structural Engineering & Consulting Co., Ltd.

DRAWING KIND	CONSTRUCTION STAGE	PROJECT
Rebar Drawing		

PLANNING STAGE	DESIGNATION	PROJECT

PROJECT No.	ORIG. SIZE	ORIG. SCALE	DRAWING No.	REV.
XXX	A2	1:50	XXX	

BEAM

OFFICE BUILDING