

DRAWING LIST OF STRUCTURE

DWG No.	DRAWING NAME	SCALE
S-01	DRAWING LIST	NTS
S-02	BAR ARRANGEMENT STANDARD	NTS
S-03	FOUNDATION PLAN AND COLUMN PLAN	1:200
S-04	GROUND FLOOR GIRDER AND SLAB PLAN, ROOF FLOOR GIRDER PLAN	1:200
S-05	FRAMING ELEVATION LINE X1-19 AND LINE Y1	1:200
S-06	FRAMING ELEVATION LINE Y2 AND Y3	1:200
S-07	COLUMN LIST AND GIRDER LIST	1:25

FOR ZONE-2

PROTOTYPE ELEMENTARY SCHOOL BUILDINGS

PROJECT NAME



DRAWING LIST	QUAKE-RESISTANCE SCHOOL BUILDING ONE-STOREY	TITLE
NIS	V TTC	SCALE
		DATE
		DESIGNED
		CHECKED
		APPROVED
3-01	2	DWG No.

- Processing and Assembly
 I-I Reinforcing buts with diagrous bends, cracks, splits or other defects, may not be used under any circumstances
 The diameter for deformed reinforcing bar shall be conform to Table-2
- 1.3 Reinforcing splices shall be lap joint, and the lap length shall be conform to Table-3 However, lap joint is not permitted for the reinforcing bar over 29mm Dia. The place of the lap joint shall be in compression zone
- 1-4 Reinforsing bars shall be cut by shearcuttersorsaws. Gas cutting is permitted where unavoidable, if approved by the Engineer 1-5 Spot welding and arc strike is not permitted for reinforcing bars,
- 1-6 Install hooks at each end of reinforcing bars. The main reinforcing bars located at the four corners of a column at lap joint, and at the top of column at the highest story
 Hoop, stirrup and yoke bar

2. Minimum thickness of cover concrete for reinforcing bars

soil	contact with	Elements		soil	Elements not		Type o
Foundati		Column, b	Beam	Column	,	Slah and walls	Type of structural elements
Foundation, retaining wall		Column, beam, floor, slab, wall	No finishing	With finishing	No finishing	With finishing	ents
70mm		50mm	40mm	40mm	30mm	20mm	Minimum thickness of cover concrete

Minimum clearance between the reinforcing bars

Less than 90°

Clearance shall be more than 25mm and 1.25 times the maximum size of coarse aggregate and 1.5 times of largest outsaid diameter of reinforcing bar



¥ 500 × 1 × 500 ×

500

500

320 320 D10

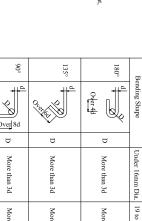


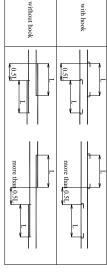
Table-2 Minimum diameter for bending of reinforcing bars

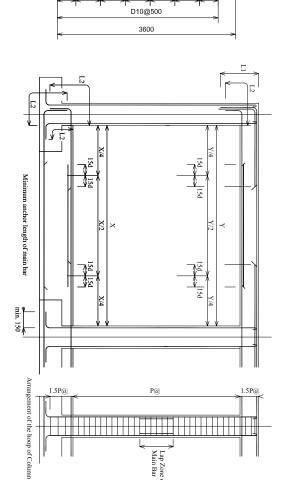
nding Shape		Under 16mm Dia. 19 to 38mmDia.	19 to 38mmDia.	Previous location	
Over 44	D	More than 3d	More than 4d	Main bars for column and beam etc.	Desi Over
Orester San	D	More than 3d	More than 4d	Stirrup,hoop,spiral bar	Fc28
Over 8d	D	More than 3d	More than 4d	N // Stirrup,hoop,spiral bar	
	D	More than 4d	More than 6d		Wi.

Table-3 Minimum lap length and Anchor length

	Design strength	Concrete	
LI	:		
1.2	withou		
Small Beam	Т	without hook	
Slab			
- 1	with hook		
1.2			
Small Beam	1	hook	
Slab	3		
	Small Slab L1 L2 Small Beam Beam	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

le-4 Location of neighboring joints





Lap Zone of Main Bar

Arrangement of the stirrup of Girder and Beam

12

P@

Less than P/2

P@ $\rightarrow \leftarrow$ Minimum anchor length of the main bar of Beam $\leftarrow \frac{1.2}{1.3}$

Less than P/2

Minimum anchor length of the main bar of Slab

Wall Reinforcement

D10@500

FOR ZONE-2

DWG No.

PROTOTYPE ELEMENTARY SCHOOL BUILDINGS

PROJECT NAME

MINISTRY OF NATIONAL EDUCATION

QUAKE-RESISTANCE SCHOOL BUILDING ONE-STOREY BAR ARRANGEMENT STANDARD

NTS

SCALE

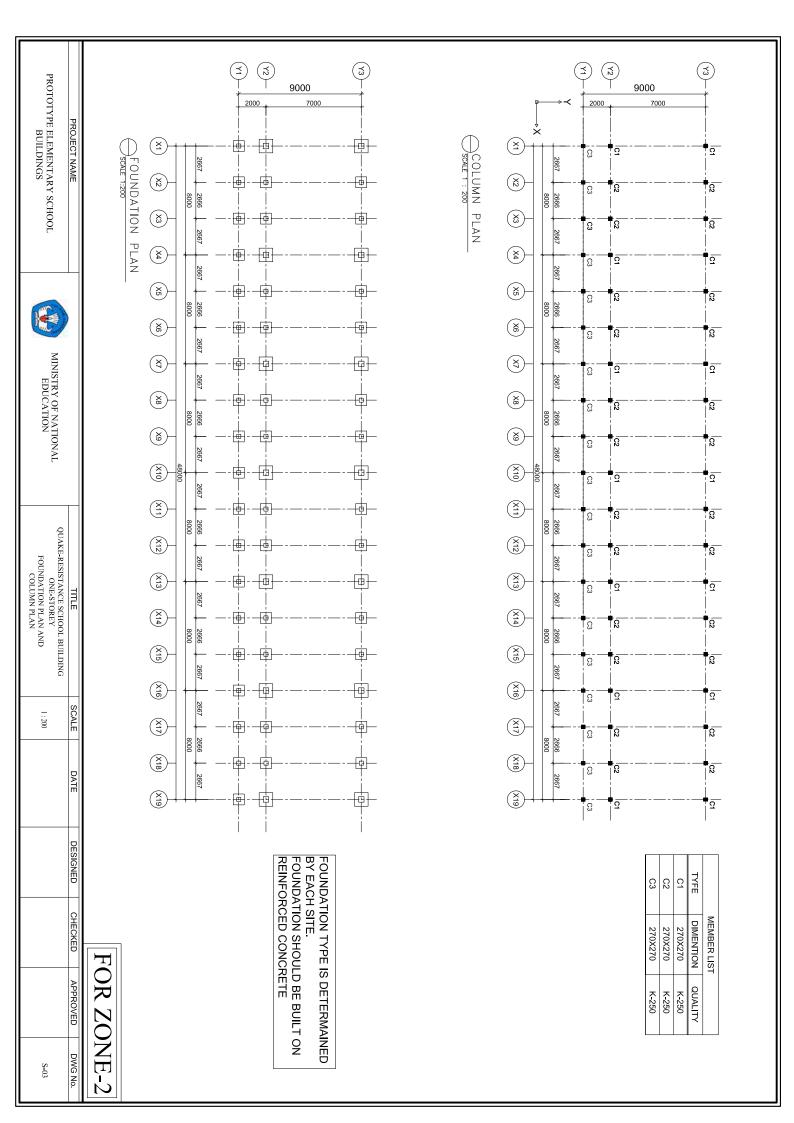
DATE

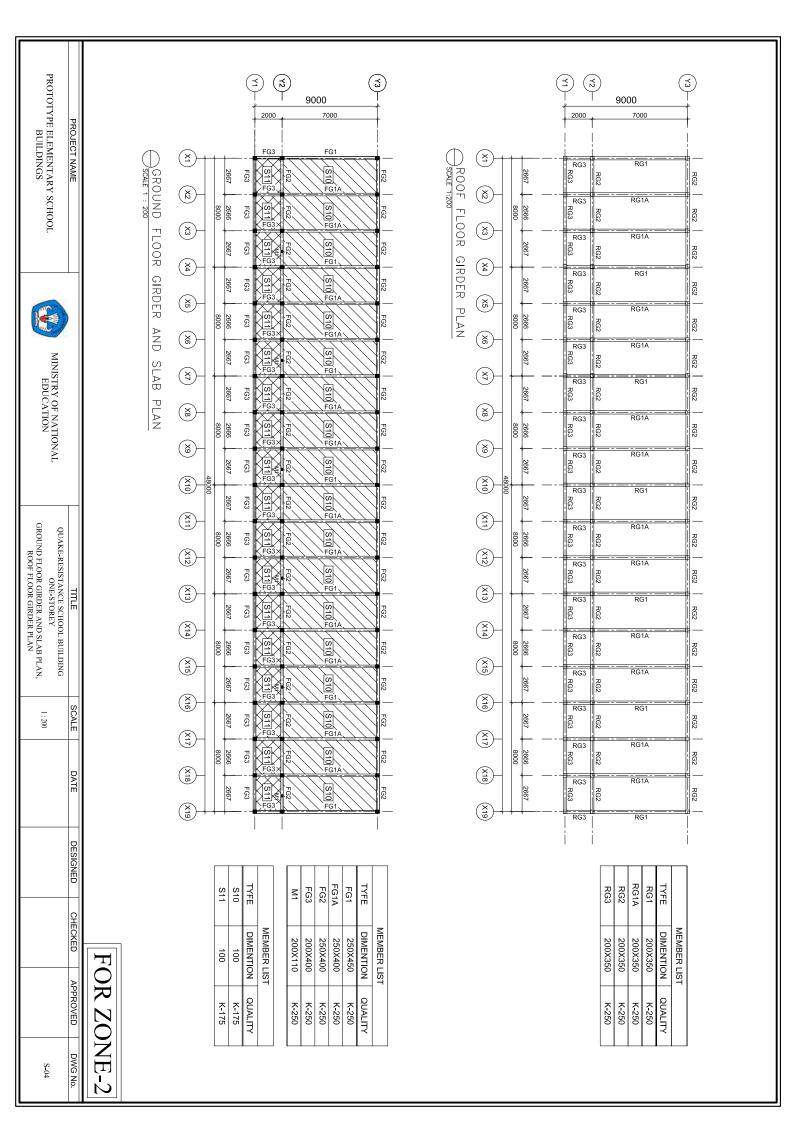
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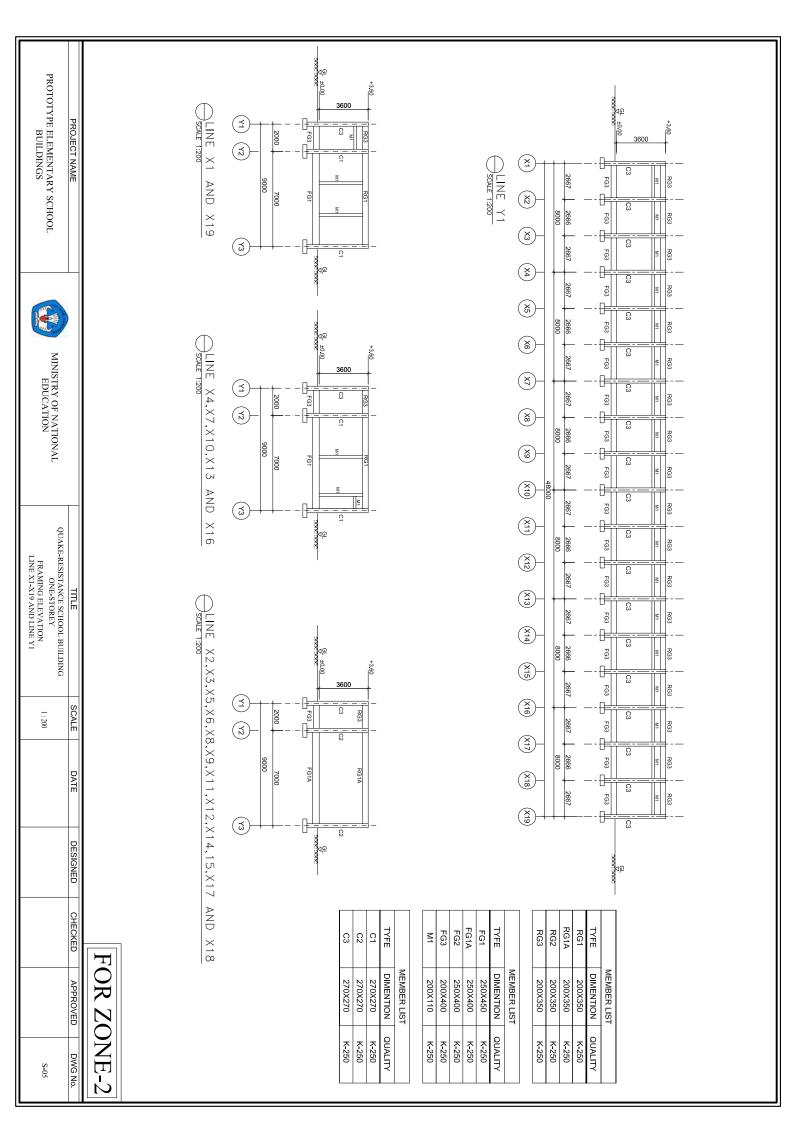
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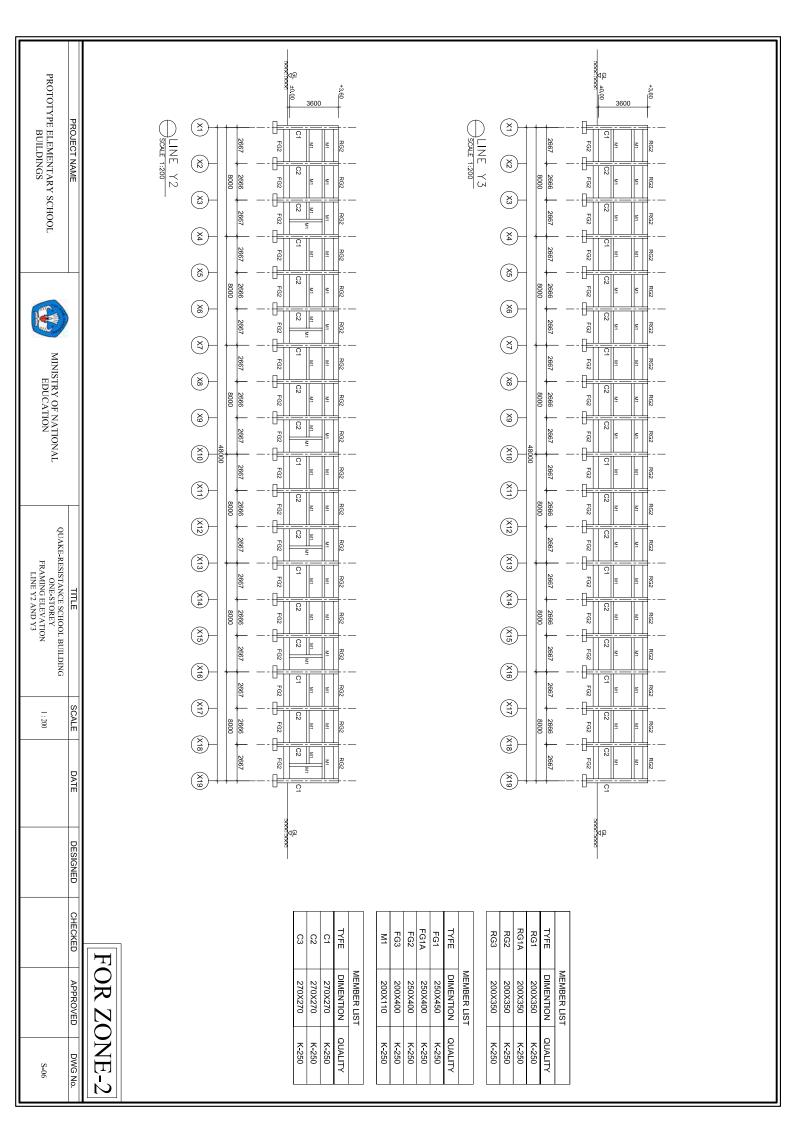
APPROVED

S-02









LIST OF THE ROOF FLOOR GIRDER

CT DDI ID	BOTTOM BAR	TOP BAR	SECTION	POSITION	MARK	
□- D10 - 200	2-D16	2-D16	350	END	RG1	
□- D10 - 200	2-D16	2 - D16		CENTER		
□- D10 - 200	2-D16	2-D16	350	END	R	
□- D10 - 200	2-D16	2-D16		CENTER	RG1A	
□- D10 - 200	2-D16	2-D16	350	END	RG2	
□- D10 - 200	2-D16	2-D16		CENTER	12	
□- D10 - 200	2-D16	2-D16	350	END	R	
□ -D10 - 200	2-D16	2-D16		CENTER	RG3	

LIST OF THE GROUND FLOOR GIRDER

STIRRUP	BOTTOM BAR	TOP BAR	SECTION	POSITION	MARK
□- D10 - 150	2-D16	3-D16	100 50 450 350 350	END	F
□ -D10 - 200	3-D16	2-D16		CENTER	FG1
□- D10 - 200	2-D16	2-D16	100 50 400 350 350	END	
□ -D10 - 200	2-D16	2-D16		CENTER	FG1A
□ -D10 - 200	2-D16	2-D16	100 400	END	
□ -D10 - 200	2-D16	2-D16		CENTER	FG2
□ -D10 - 200	2 - D16	2-D16	100 50 400 1200 1300	END	
□ -D10 - 200	2-D16	2-D16		CENTER	FG3

LIST OF THE COLUMN (GROUND-ROOF)

HOOP	MAIN BAR	DIMENSION	SECTION	POSITION	MARK	
□ D10 -100	4-D16	270X270	270 × 270 100 100 100 100 100 100 100 100 100 1	ALL SECTION	C1	LIGI OF THE COLUMN (GROUND-ROOF
□-D10 -100	4-D16	270X270	270 × 270	ALL SECTION	C2	1-XOOT)
□-D10 -100	4 - D16	270X270	270 × 270 100 270	ALL SECTION	СЗ	

LIST OF THE HEADER

Note: Material Concrete K-250

Confinement Rebar fy: 300 MPa Main Rebar fy : 400 MPa

FOR ZONE-2

APPROVED

DWG No.

S-07

PROTOTYPE ELEMENTARY SCHOOL BUILDINGS

PROJECT NAME

MINISTRY OF NATIONAL EDUCATION

QUAKE-RESISTANCE SCHOOL BUILDING ONE-STOREY COLUMN LIST AND GIRDER LIST SCALE 1:25 DESIGNED CHECKED