



**LA**

**TABEL JADWAL PROYEK GEDUNG X**

ID	Task Name	Duration	Start	9 Dec			Qtr 1, 2020			Qtr 2, 2020			Qtr 3, 2020			Qtr 4, 2020	
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
1	<b>Concrete Works (Sub Structure)</b>	<b>76 days</b>	<b>30/01/2020</b>														
2	Concrete bored pile	28 days	30/01/2020														
3	Concrete Pile cap foundation, type F-A	25 days	11/02/2020														
4	Concrete Pile cap foundation, type F-A1	18 days	11/03/2020														
5	Concrete Pile cap foundation, type F-A2	11.8 days	31/03/2020														
6	Concrete Pile cap foundation, type F-B	6.1 days	09/04/2020														
7	Concrete Pile cap foundation, type F-B1	11 days	13/04/2020														
8	Concrete Pile cap foundation, type F-C	8.1 days	23/04/2020														
9	Concrete Pile cap foundation, type F-D	11 days	30/04/2020														
10	<b>Concrete Works (Upper Structure)</b>	<b>181 days</b>	<b>18/02/2020</b>														
11	<b>1st floor</b>	<b>71 days</b>	<b>18/02/2020</b>														
12	Lean concrete under the Tie beam, quality f'c = 7.4 MPa	32 days	18/02/2020														
13	Concrete Tie beam, type TB1	32 days	18/02/2020														

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Task		Inactive Summary		External Tasks	
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Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

ID	Task Name	Duration	Start	9	Qtr 1, 2020			Qtr 2, 2020			Qtr 3, 2020			Qtr 4, 2020	
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
14	Concrete floor slab, type S2 100 mm thick	39 days	18/02/2020												
15	Concrete floor slab, type S1 130 mm thick	39 days	18/02/2020												
16	Concrete Shear wall, type SW-1A	39 days	19/03/2020												
17	Concrete Shear wall, type SW-1B	39 days	19/03/2020												
18	Concrete Shear wall, type SW-2	39 days	19/03/2020												
19	Concrete Shear wall, type SW-3	39 days	19/03/2020												
20	Concrete Shear wall, type SW-4	39 days	19/03/2020												
21	Concrete Shear wall, type SW-5	39 days	19/03/2020												
22	Concrete Shear wall, type SW-6	39 days	19/03/2020												
23	Concrete Column, type C1	39 days	19/03/2020												
24	Concrete Column, type C2	39 days	19/03/2020												
25	Concrete Column, type C3	39 days	19/03/2020												
26	Concrete Column, type C5	39 days	30/03/2020												
27	Concrete beam, type B4	18 days	01/05/2020												
28	Concrete beam, type BP-2	18 days	01/05/2020												

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				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
29	Concrete beam, type BP-3	18 days	01/05/2020											
30	<b>2nd floor</b>	<b>40 days</b>	<b>06/05/2020</b>											
31	Concrete beam, type B1	32 days	15/05/2020											
32	Concrete beam, type B2	32 days	06/05/2020											
33	Concrete beam, type B3	32 days	06/05/2020											
34	Concrete beam, type B4	32 days	06/05/2020											
35	Concrete beam, type B5	32 days	06/05/2020											
36	Concrete beam, type BA	32 days	06/05/2020											
37	Concrete beam, type BAC	32 days	06/05/2020											
38	Concrete beam, type BAC-TP	32 days	06/05/2020											
39	Concrete beam, type BAC-TP2	32 days	06/05/2020											
40	Concrete beam, type BP1	32 days	06/05/2020											
41	Concrete beam, type BP2	32 days	06/05/2020											
42	Concrete beam, type B1-SW	32 days	06/05/2020											
43	Concrete beam, type B2-SW	32 days	06/05/2020											
44	Concrete beam, type BA-SW	32 days	06/05/2020											
45	Concrete floor slab, type S1 130 mm thick	18 days	15/05/2020											
46	Concrete Shear wall, type SW-1A	32 days	18/05/2020											
47	Concrete Shear wall, type SW-1B	25 days	18/05/2020											

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				9 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
48	Concrete Shear wall, type SW-2	25 days	18/05/2020											
49	Concrete Shear wall, type SW-3	25 days	18/05/2020											
50	Concrete Shear wall, type SW-4	25 days	18/05/2020											
51	Concrete Shear wall, type SW-5	25 days	18/05/2020											
52	Concrete Shear wall, type SW-6	25 days	18/05/2020											
53	Concrete Column, type C1	25 days	18/05/2020											
54	Concrete Column, type C3	25 days	18/05/2020											
55	Concrete Column, type C5	25 days	27/05/2020											
56	<b>3rd floor</b>	<b>26 days</b>	<b>04/06/2020</b>											
57	Concrete beam, type B1	11 days	24/06/2020											
58	Concrete beam, type B2	11 days	04/06/2020											
59	Concrete beam, type B3	11 days	04/06/2020											
60	Concrete beam, type B4	11 days	04/06/2020											
61	Concrete beam, type B5	11 days	04/06/2020											
62	Concrete beam, type BA	11 days	04/06/2020											
63	Concrete beam, type BAC	11 days	04/06/2020											
64	Concrete beam, type BAC-TP	11 days	04/06/2020											

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				9 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
65	Concrete beam, type BAC-TP2	11 days	04/06/2020											
66	Concrete beam, type BP1	11 days	04/06/2020											
67	Concrete beam, type BP2	11 days	04/06/2020											
68	Concrete beam, type B1-SW	11 days	04/06/2020											
69	Concrete beam, type B2-SW	11 days	04/06/2020											
70	Concrete beam, type BA-SW	11 days	04/06/2020											
71	Concrete floor slab, type S1 130 mm thick	11 days	24/06/2020											
72	Concrete Shear wall, type SW-1A	11 days	05/06/2020											
73	Concrete Shear wall, type SW-1B	11 days	05/06/2020											
74	Concrete Shear wall, type SW-2	11 days	05/06/2020											
75	Concrete Shear wall, type SW-3	11 days	05/06/2020											
76	Concrete Shear wall, type SW-4	11 days	05/06/2020											
77	Concrete Shear wall, type SW-5	11 days	05/06/2020											
78	Concrete Shear wall, type SW-6	11 days	05/06/2020											
79	Concrete Column, type C1	11 days	25/06/2020											

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80	Concrete Column, type C5	5 days	05/06/2020											
81	<b>4th floor</b>	<b>39 days</b>	<b>15/06/2020</b>											
82	Concrete beam, type B1	18 days	03/07/2020											
83	Concrete beam, type B2	18 days	15/06/2020											
84	Concrete beam, type B3	18 days	15/06/2020											
85	Concrete beam, type B5	18 days	15/06/2020											
86	Concrete beam, type BA	18 days	15/06/2020											
87	Concrete beam, type BAC-TP	18 days	15/06/2020											
88	Concrete beam, type BAC-TP2	18 days	15/06/2020											
89	Concrete beam, type BP1	18 days	15/06/2020											
90	Concrete beam, type BP2	18 days	15/06/2020											
91	Concrete beam, type B1-SW	18 days	15/06/2020											
92	Concrete beam, type B2-SW	18 days	15/06/2020											
93	Concrete beam, type BA-SW	18 days	15/06/2020											
94	Concrete floor slab, type S1 130 mm thick	25 days	03/07/2020											
95	Concrete Shear wall, type SW-1A	18 days	06/07/2020											
96	Concrete Shear wall, type SW-1B	18 days	06/07/2020											
97	Concrete Shear wall, type SW-2	18 days	06/07/2020											

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				9 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
98	Concrete Shear wall, type SW-3	18 days	06/07/2020											
99	Concrete Shear wall, type SW-4	18 days	06/07/2020											
100	Concrete Shear wall, type SW-5	18 days	06/07/2020											
101	Concrete Shear wall, type SW-6	18 days	06/07/2020											
102	Concrete Column, type C1	18 days	06/07/2020											
103	Concrete Column, type C5	5 days	06/07/2020											
104	<b>5th floor</b>	<b>32 days</b>	<b>03/08/2020</b>											
105	Concrete beam, type B1	21 days	12/08/2020											
106	Concrete beam, type B2	21 days	03/08/2020											
107	Concrete beam, type B3	21 days	03/08/2020											
108	Concrete beam, type B5	21 days	03/08/2020											
109	Concrete beam, type BA	21 days	03/08/2020											
110	Concrete beam, type BAC-TP	21 days	03/08/2020											
111	Concrete beam, type BAC-TP2	21 days	03/08/2020											
112	Concrete beam, type BP1	21 days	03/08/2020											
113	Concrete beam, type BP2	21 days	03/08/2020											
114	Concrete beam, type B1-SW	21 days	03/08/2020											
115	Concrete beam, type B2-SW	21 days	03/08/2020											

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				9 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
116	Concrete beam, type BA-SW	21 days	03/08/2020											
117	Concrete floor slab, type S1 130 mm thick	21 days	12/08/2020											
118	Concrete Shear wall, type SW-1A	21 days	18/08/2020											
119	Concrete Shear wall, type SW-1B	21 days	18/08/2020											
120	Concrete Shear wall, type SW-2	21 days	18/08/2020											
121	Concrete Shear wall, type SW-3	21 days	18/08/2020											
122	Concrete Shear wall, type SW-4	21 days	18/08/2020											
123	Concrete Shear wall, type SW-5	21 days	18/08/2020											
124	Concrete Shear wall, type SW-6	21 days	18/08/2020											
125	Concrete Column, type C1	15 days	18/08/2020											
126	Concrete Column, type C5	5 days	18/08/2020											
127	<b>6th floor</b>	<b>18 days</b>	<b>26/08/2020</b>											
128	Concrete beam, type B1	15 days	31/08/2020											
129	Concrete beam, type B2	15 days	31/08/2020											
130	Concrete beam, type B3	15 days	31/08/2020											
131	Concrete beam, type B5	15 days	31/08/2020											

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				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
132	Concrete beam, type BA	15 days	31/08/2020											
133	Concrete beam, type BAC-TP	15 days	31/08/2020											
134	Concrete beam, type BAC-TP2	15 days	31/08/2020											
135	Concrete beam, type BP1	15 days	31/08/2020											
136	Concrete beam, type BP2	15 days	31/08/2020											
137	Concrete beam, type B1-SW	15 days	31/08/2020											
138	Concrete beam, type B2-SW	15 days	31/08/2020											
139	Concrete beam, type BA-SW	15 days	31/08/2020											
140	Concrete floor slab, type S1 130 mm thick	8 days	31/08/2020											
141	Concrete Shear wall, type SW-1A	15 days	26/08/2020											
142	Concrete Shear wall, type SW-1B	15 days	26/08/2020											
143	Concrete Shear wall, type SW-2	15 days	26/08/2020											
144	Concrete Shear wall, type SW-3	15 days	26/08/2020											
145	Concrete Shear wall, type SW-4	15 days	26/08/2020											
146	Concrete Shear wall, type SW-5	15 days	26/08/2020											

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147	Concrete Shear wall, type SW-6	15 days	26/08/2020											
148	Concrete Column, type C1	15 days	26/08/2020											
149	Concrete Column, type C5	6 days	26/08/2020											
150	<b>7th floor</b>	<b>19 days</b>	<b>08/09/2020</b>											
151	Concrete beam, type B1	15 days	10/09/2020											
152	Concrete beam, type B2	15 days	08/09/2020											
153	Concrete beam, type B3	15 days	08/09/2020											
154	Concrete beam, type B5	15 days	08/09/2020											
155	Concrete beam, type BA	15 days	08/09/2020											
156	Concrete beam, type BAC-TP	15 days	08/09/2020											
157	Concrete beam, type BAC-TP2	15 days	08/09/2020											
158	Concrete beam, type BP1	15 days	08/09/2020											
159	Concrete beam, type BP2	15 days	08/09/2020											
160	Concrete beam, type B1-SW	15 days	08/09/2020											
161	Concrete beam, type B2-SW	15 days	08/09/2020											
162	Concrete beam, type BA-SW	15 days	08/09/2020											
163	Concrete floor slab, type S1 130 mm thick	15 days	10/09/2020											
164	Concrete Shear wall, type SW-1A	15 days	14/09/2020											

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				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
165	Concrete Shear wall, type SW-1B	15 days	14/09/2020														
166	Concrete Shear wall, type SW-2	15 days	14/09/2020														
167	Concrete Shear wall, type SW-3	15 days	14/09/2020														
168	Concrete Shear wall, type SW-4	15 days	14/09/2020														
169	Concrete Shear wall, type SW-5	15 days	14/09/2020														
170	Concrete Shear wall, type SW-6	15 days	14/09/2020														
171	Concrete Column, type C1	10 days	17/09/2020														
172	Concrete Column, type C5	6 days	14/09/2020														
173	<b>8th floor</b>	<b>19 days</b>	<b>18/09/2020</b>														
174	Concrete beam, type B1	15 days	24/09/2020														
175	Concrete beam, type B2	15 days	18/09/2020														
176	Concrete beam, type B3	15 days	18/09/2020														
177	Concrete beam, type B5	15 days	18/09/2020														
178	Concrete beam, type BA	15 days	18/09/2020														
179	Concrete beam, type BAC-TP	15 days	18/09/2020														
180	Concrete beam, type BAC-TP2	15 days	18/09/2020														

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				9 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
181	Concrete beam, type BP1	15 days	18/09/2020											
182	Concrete beam, type BP2	15 days	18/09/2020											
183	Concrete beam, type B1-SW	15 days	18/09/2020											
184	Concrete beam, type B2-SW	15 days	18/09/2020											
185	Concrete beam, type BA-SW	15 days	18/09/2020											
186	Concrete floor slab, type S1 130 mm thick	15 days	24/09/2020											
187	Concrete Shear wall, type SW-1A	15 days	24/09/2020											
188	Concrete Shear wall, type SW-1B	15 days	24/09/2020											
189	Concrete Shear wall, type SW-2	15 days	24/09/2020											
190	Concrete Shear wall, type SW-3	15 days	24/09/2020											
191	Concrete Shear wall, type SW-4	15 days	24/09/2020											
192	Concrete Shear wall, type SW-5	15 days	24/09/2020											
193	Concrete Shear wall, type SW-6	15 days	24/09/2020											
194	Concrete Column, type C1	9 days	01/10/2020											
195	Concrete Column, type C5	6 days	29/09/2020											
196	<b>Roof floor</b>	<b>21 days</b>	<b>29/09/2020</b>											

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197	Concrete beam, type B2	15 days	07/10/2020											
198	Concrete beam, type B2-C	15 days	29/09/2020											
199	Concrete beam, type BA	15 days	29/09/2020											
200	Concrete beam, type BA-C	15 days	29/09/2020											
201	Concrete beam, type BAC-TP	15 days	29/09/2020											
202	Concrete beam, type BAC-TP2	15 days	29/09/2020											
203	Concrete beam, type BP1	15 days	29/09/2020											
204	Concrete beam, type BP3	15 days	29/09/2020											
205	Concrete beam, type B1-SW	15 days	29/09/2020											
206	Concrete beam, type B2-SW	15 days	29/09/2020											
207	Concrete floor slab, type S1 130 mm thick	15 days	29/09/2020											
208	Concrete floor slab, type S3 150 mm thick	15 days	29/09/2020											
209	Concrete Column Pedestal	6 days	12/10/2020											



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**LB**

***SHOPDRAWING***

STANDARD DETAIL FOR CONCRETE STRUCTURAL & REINFORCEMENT WORKS

I. GENERAL

1.1. REGULATION AND STANDARD :  
REGULATION AND STANDARD THAT ARE COMMONLY USED FOR CONCRETE WORK ARE AS FOLLOWS :  
• AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)  
• AMERICAN CONCRETE INSTITUTE (ACI 318M-2014)  
• PERSYARATAN BETON STRUKTURAL UNTUK BANGUNAN GEDUNG (SNI 2847-2013)  
• TATA CARA PERENCANAAN KETAHANAN GEMPA UNTUK STRUKTUR BANGUNAN GEDUNG DAN NON GEDUNG (SNI 1726-2012)

1.2. LOADING :

1. DEAD LOAD	
- CONCRETE	2400 kg/m <sup>3</sup>
- STEEL	7850 kg/m <sup>3</sup>

1.3. MATERIAL

CONCRETE  
CEMENT :  
- ASTM C150 TYPE - I FOR ALL CONCRETE WORK ABOVE GROUND LEVEL OR OTHERWISE INDICATED.  
- ASTM C150 TYPE - II FOR MODERATE SULFATE SURROUNDING, SUCH AS DRAINAGE STRUCTURE, FOUNDATION, RETAINING WALL AND ALL STRUCTURE IN CONTACT WITH GROUND.  
- ASTM C150 TYPE - V TO BE APPLIED FOR AREA WITH HIGH CONCENTRATION OF SALT AND SULPHUR

THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH DETERMINED BY ASTM C39 AT 28 DAYS AGE AND LABORATORY CURED SHALL BE AS FOLLOWS:

TABLE 1.3.1 CONCRETE GRADE

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS BY CYLINDER MOLD	USE
15 N/mm <sup>2</sup>	LEAN CONCRETE
30 N/mm <sup>2</sup>	GENERAL STRUCTURE

TABLE 1.3.2 OTHER COEFFICIENT OF THE TYPICAL CONCRETE

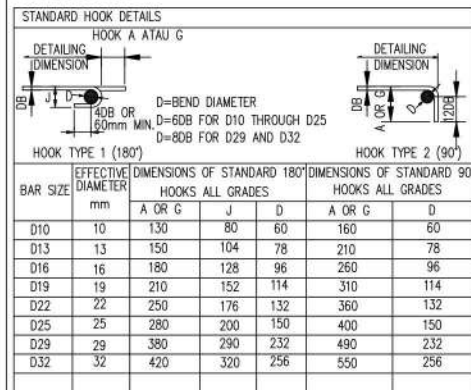
COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	f'c = 30 MPA AT 28 DAYS AGE FOR DESIGN
YOUNG'S MODULUS (N/mm <sup>2</sup> )	E=2.37x10 <sup>4</sup>
SHEAR MODULUS (N/mm <sup>2</sup> )	G=0.99x10 <sup>4</sup>
POISSON'S RATIO	ν=0.2
UNIT WEIGHT OF REINFORCED CONCRETE (kN/m <sup>3</sup> )	γ=24
COEFFICIENT OF EXPANSION (°C <sup>-1</sup> )	1.0x10 <sup>-5</sup>

1.4 CONCRETE SPECIFICATION

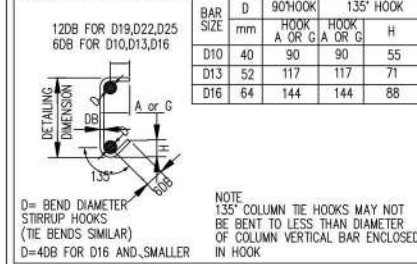
1.4.1 COVER TO REINFORCEMENT

A) CONCRETE STILL ABOVE AND ALWAYS RELATED TO THE GROUND	75
B) CONCRETE RELATING TO THE GROUND OR WEATHER : - FOR REINFORCEMENT D-19 UNTIL D-57 - FOR REINFORCEMENT D-16	50 40
C) CONCRETE THAT DOES NOT RELATING TO THE GROUND OR WEATHER : SLAB AND WALL - FOR REINFORCEMENT D-44 UNTIL D-57 - FOR REINFORCEMENT D-36 AND MORE THEN SMALL BEAM AND COLUMN - MAIN REINFORCEMENT, STIRRUP, SPIRAL	40 20 40

1.4.2 HOOK DETAILS



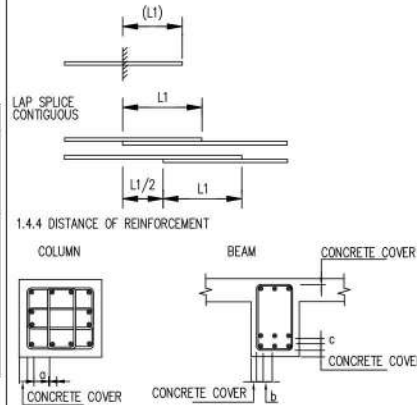
STIRRUP AND TIE HOOK DETAILS



1.4.3 SPLICE LENGTH AND DEVELOPMENT LENGTH

GRADE 25	LAP SPLICE (L1)	DEVELOPMENT LENGTH		
		TENSION BARS (L2)		COMPRESSION BARS (L3)
		TOP BAR	OTHER BAR	(L3)
D10	480	370	300	200
D13	625	480	390	260
D16	770	590	480	320
D19	910	700	595	380
D22	1055	810	795	440
D25	1255	965	1020	500
D29	1690	1300	1380	580
D32	2055	1580	1680	640

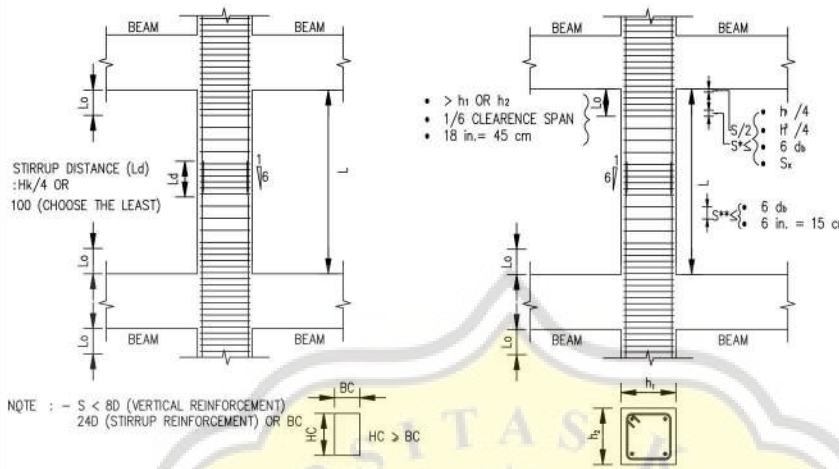
NOTE : TOP BAR IS HORIZONTAL BAR IN POSITION WHICH IS CONTAINED MORE THAN 300 mm CONCRETE UNDERNEATH



NOTE :  
a : CLEAR DISTANCE NOT LESS THAN 1.5DB OR 40 mm AND NOT LESS THAN 1.5 x DIAMETER  
b : CLEAR DISTANCE NOT LESS THAN DB OR 25 mm AND NOT LESS THAN 1.5 x DIAMETER AGREGAT  
c : ≥ c 25 mm  
DB : REINFORCEMENT NOMINAL DIAMETER

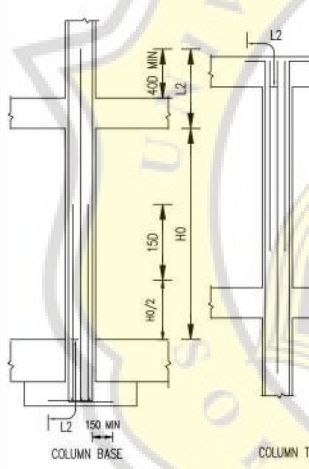
II. COLUMN REINFORCEMENT

II.1. REINFORCEMENT FOR COLUMN

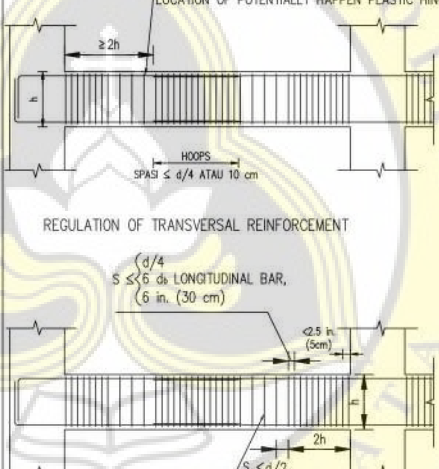


NOTE : - S < 8D (VERTICAL REINFORCEMENT)  
24D (STIRRUP REINFORCEMENT) OR BC

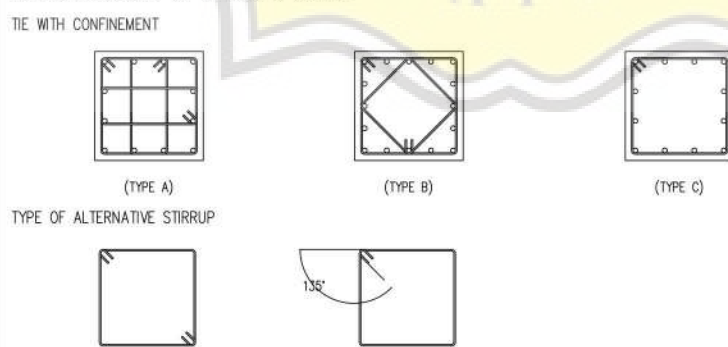
II.2. ANCHOR AT COLUMN TOP OR COLUMN BASE



II.3. BEAM SECTION LAP SPLICE



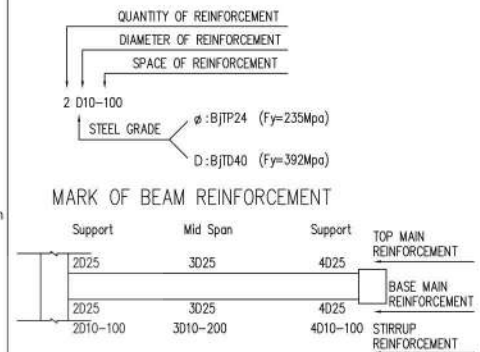
II.4. ALTERNATIVE OF STIRRUPS DETAIL



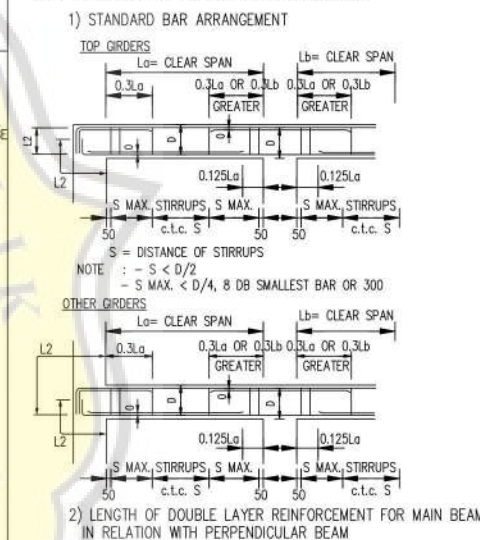
FOR SURE TIE, IT IS ALLOWED TO USE ONE OF THESE STIRRUPS TYPE

III. BEAM REINFORCEMENT

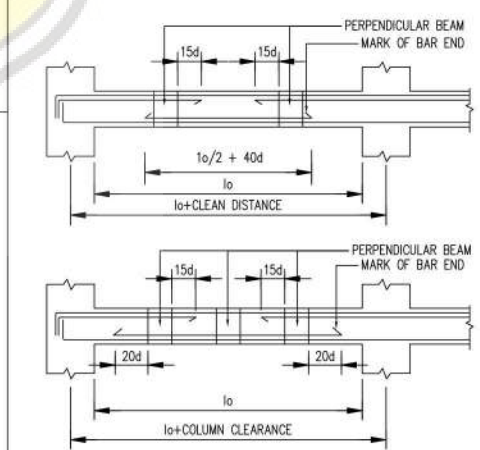
III.1. STANDARD SYMBOLS OF BEAM REINFORCEMENT MARK OF REINFORCEMENT



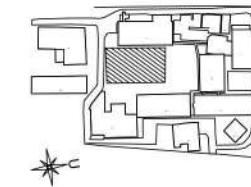
III.2. SPACING OF MAIN REINFORCEMENT



2) LENGTH OF DOUBLE LAYER REINFORCEMENT FOR MAIN BEAM IN RELATION WITH PERPENDICULAR BEAM



AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER
- UNLESS NOTED OTHERWISE
- ALL ELEVATIONS ARE IN METRE
- TOC-0.500 ± FFL±0.000
- CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  
fc' = 25 MPa  
- COLUMN, BEAM & SLAB fc' = 30 MPa
- REINFORCEMENT STEEL:  
- Fy = 420 MPa  
- Fu = 560 MPa  
- Fua = 525 MPa  
- Fys = 700 MPa
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
- REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

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STANTARD DETAIL

SKALA

NTS

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

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DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

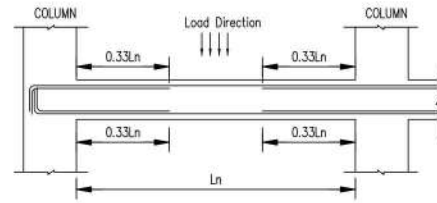
LB-1



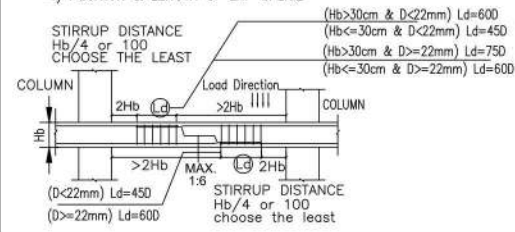
STANDARD DETAIL FOR CONCRETE STRUCTURAL & REINFORCEMENT WORKS

III. BEAM REINFORCEMENT & FOUNDATION

3) END OF TOP BAR AND BASE ON SUPPORT

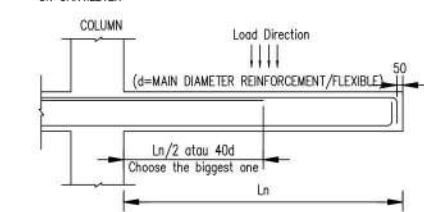


4) POSITION & LENGTH OF LAP SPLICE

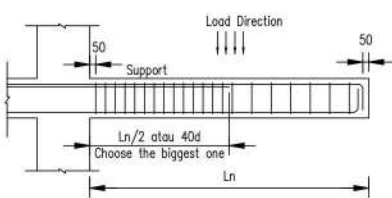


III.3 CANTILEVER BEAM

1) END OF TOP BAR ON CANTILEVER

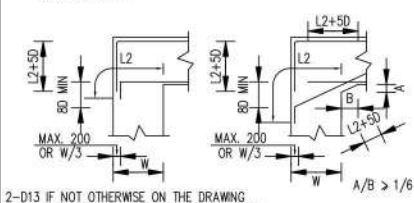


1) BEAM STIRRUP FORMATION ON CANTILEVER

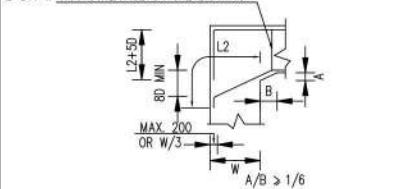


III.4. ANCHOR DETAIL FOR BEAM REINFORCEMENT

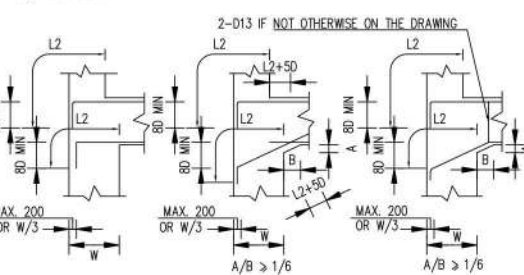
1) UPPER STORY



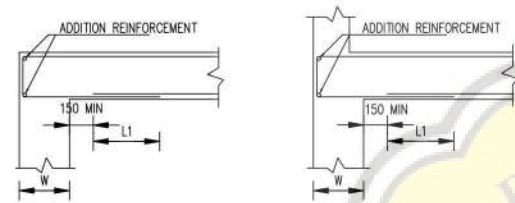
2-D13 IF NOT OTHERWISE ON THE DRAWING



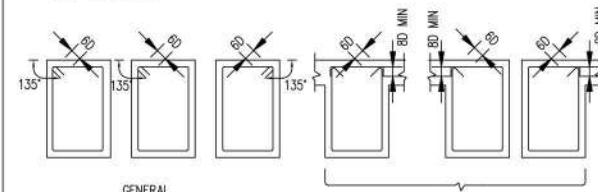
2) MID STORY



3) THIS ANCHOR CAN BE USED DETAIL

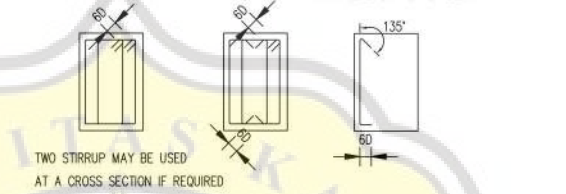


III.6. TIE DETAIL



GENERAL

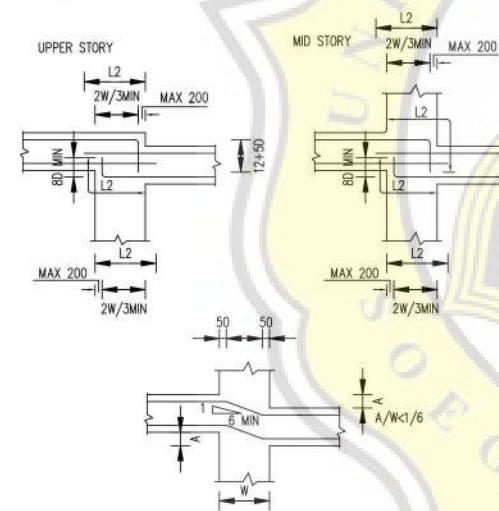
ALTERNATIVE WITH SLAB ON TOP OF BEAM



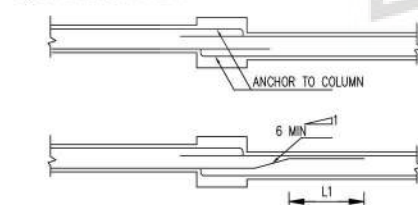
TWO STIRRUP MAY BE USED AT A CROSS SECTION IF REQUIRED

III.5. DIFFERENCES LEVEL OR PLAN IN BEAM

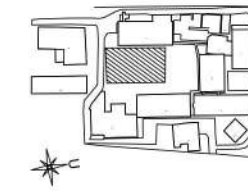
1) DIFFERENCES LEVEL



2) DIFFERENCES IN PLAN



AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER
- UNLESS NOTED OTHERWISE
- ALL ELEVATIONS ARE IN METRE
- TOC-0.500 ± FFL±0.000
- CONCRETE QUALITY:
  - FOR BORED PILE & FOUNDATION  $f_c' = 25 \text{ MPa}$
  - COLUMN, BEAM & SLAB  $f_c' = 30 \text{ MPa}$
- REINFORCEMENT STEEL:
  - $F_y = 420 \text{ MPa}$
  - $F_u = 560 \text{ MPa}$
  - $F_y = 525 \text{ MPa}$
  - $F_u = 700 \text{ MPa}$
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
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LEGEND

REFERENCE DRAWINGS

KEYPLAN



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JUDUL GAMBAR

STANTARD DETAIL

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NTS

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DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

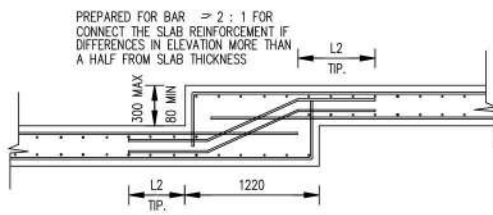
LEMBAR

LB-2

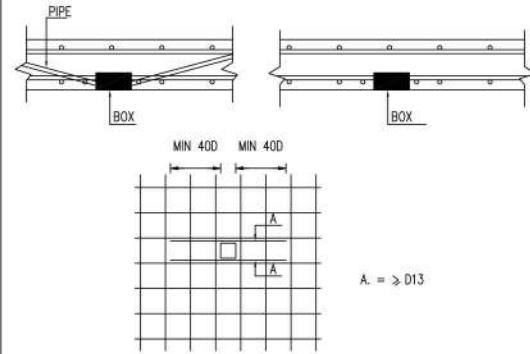
STANDARD DETAIL FOR CONCRETE STRUCTURAL & REINFORCEMENT WORKS

IV. FLOOR SLAB REINFORCEMENT

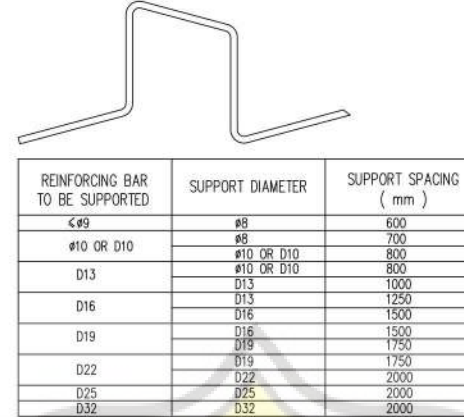
IV.1. SLAB WITH DIFFERENCES ELEVATION



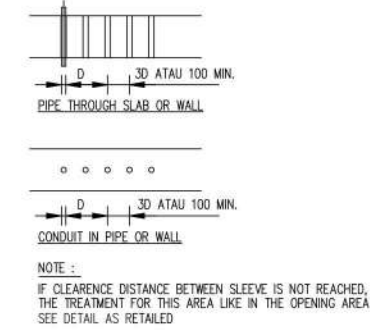
IV.5. REINFORCEMENT DETAIL ON EMBEDMENT OF M/E BOXES



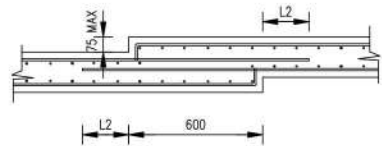
IV.8. SUPPORT FOR REINFORCEMENT



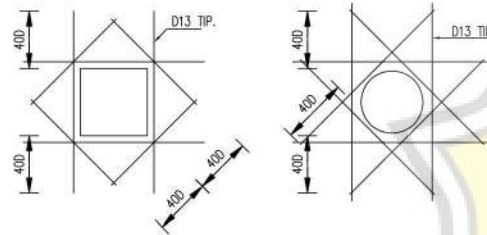
IV.10. PIPING AND CONDUIT ON WALL AND SLAB



IV.2. SLAB WITH DIFFERENCES ELEVATION

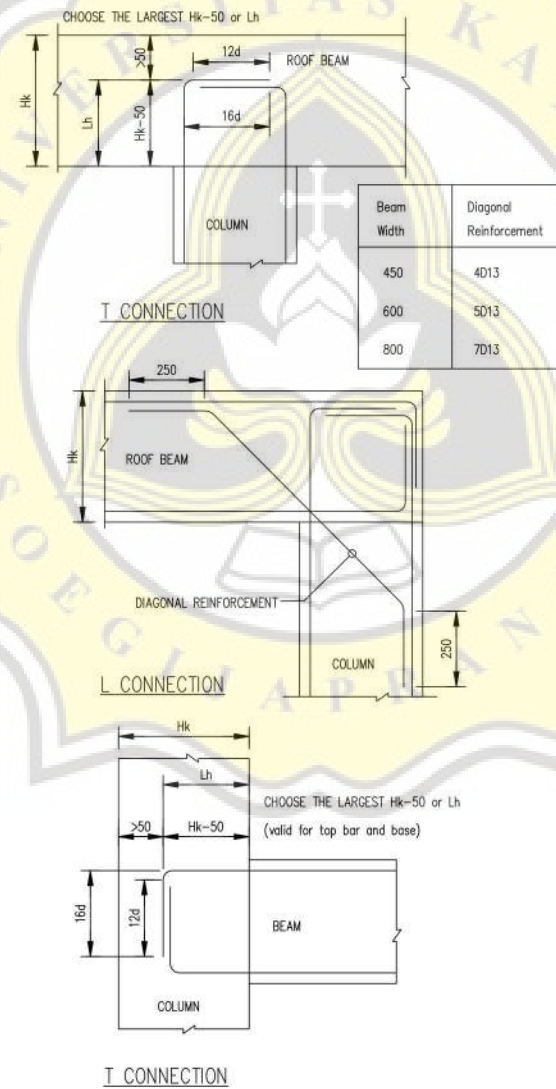


IV.6. SLAB/WALL REINFORCEMENT NEAR/AROUND OPENING (APPLICABLE ONLY FOR OPENING AREA < 0.3 M, MAXIMUM OPENING LENGTH 600 MM)

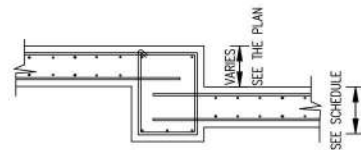


NOTE :  
1. ALL OF SLAB REINFORCEMENT TOP AND BASE WHICH IS CUT BY OPENED AREA MUST REPLACED AS MUCH AS WHITFIELD ON EACH SIDE APPERTURE INSTALLED BY A HALF AND THE LENGTH APPROPRIATE BY LAP SPLICE NEEDED

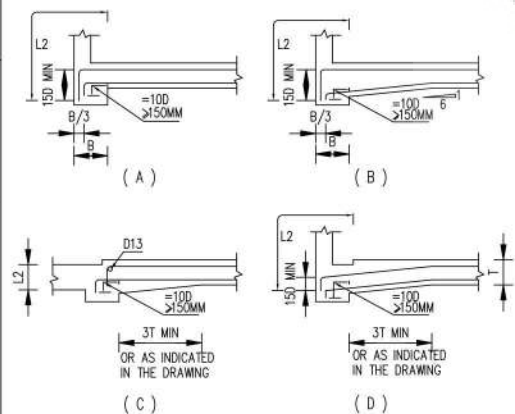
IV.9. HOOK DETAIL ON CONNECTION BEAM-COLUMN



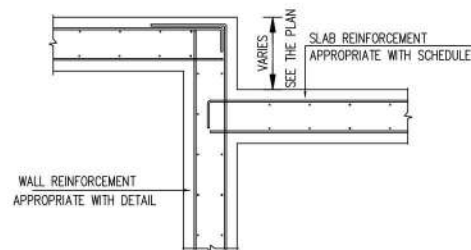
IV.3. DIFFERENCE IN SLAB ELEVATION ON BEAM



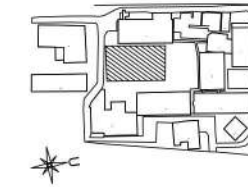
IV.7. ANCHOR LENGTH REQUIREMENT FOR SLAB REINFORCEMENT



IV.4. DIFFERENCE IN SLAB ELEVATION ON WALL



AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER
- UNLESS NOTED OTHERWISE
- ALL ELEVATIONS ARE IN METRE
- TOC-0.500  $\neq$  FFL±0.000
- CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
- REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
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LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

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Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

STANTARD DETAIL

SKALA

NTS

DISUSUN OLEH:

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AMELIA PUTRI SABELA (17.B1.0131)

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DOSEN PEMBIMBING 2

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TANGGAL

CATATAN

LEMBAR

LB-3



UNIKA SOEGIJAPRANATA

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JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

CONCRETE FOUNDATION,  
PILE CAP & BEAM 1ST FLOOR PLAN

1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D H, S.T., M.Sc., M.M., Ph.D.

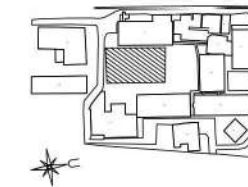
TANGGAL

CATATAN

LEMBAR

LB-4

AREA KEYPLAN



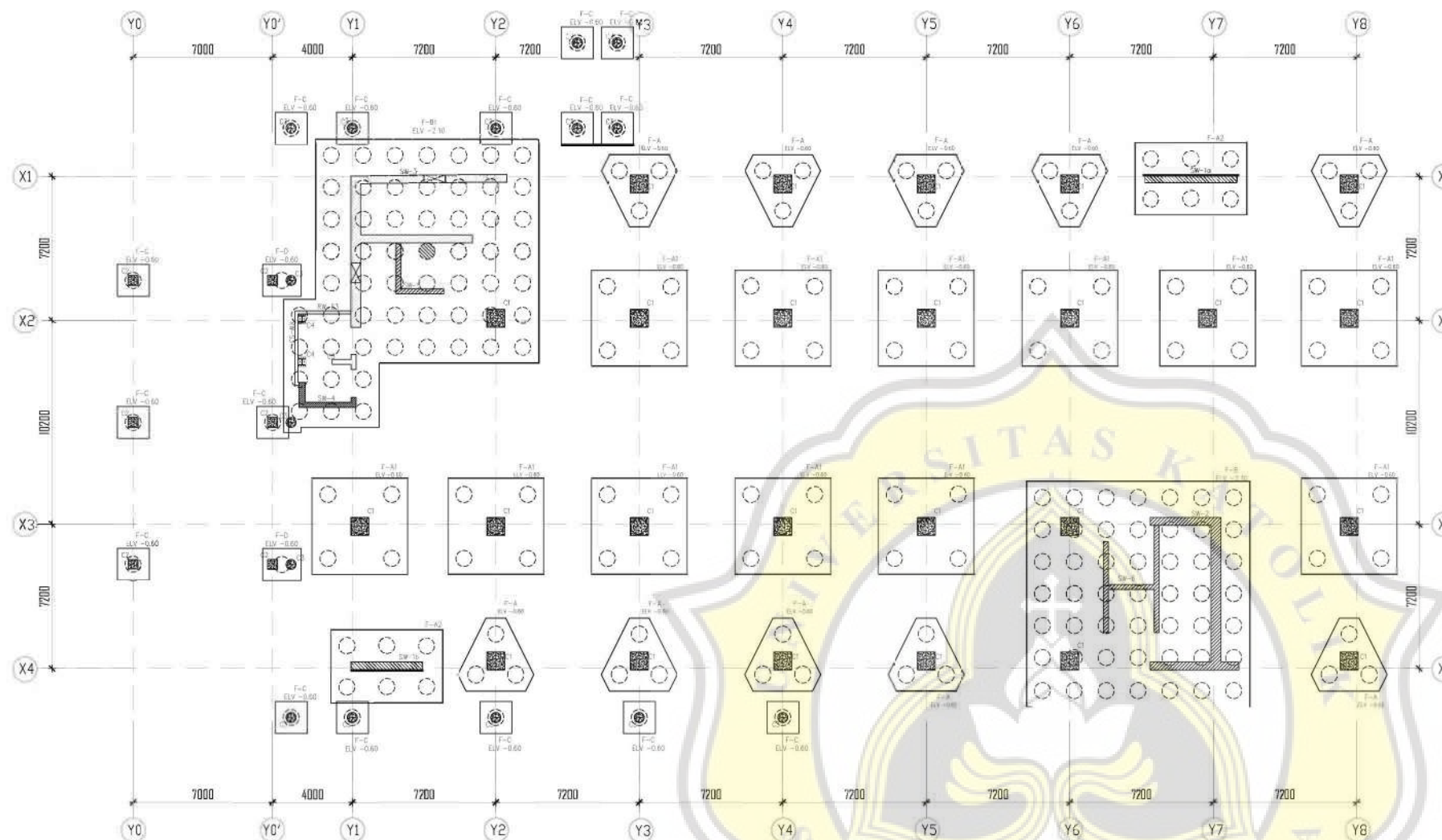
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = 0.500 ± FFL ± 0.000
5. CONCRETE QUALITY:
  - FOR BORED PILE & FOUNDATION
  - $f_c' = 25 \text{ MPa}$
  - COLUMN, BEAM & SLAB  $f_c' = 30 \text{ MPa}$
6. REINFORCEMENT STEEL:
  - $F_y = 420 \text{ MPa}$
  - $F_u = 560 \text{ MPa}$
  - $F_{y0} = 525 \text{ MPa}$
  - $F_{u0} = 700 \text{ MPa}$
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. PREDICTED PILE CAPACITY:
  - ALLOWABLE AXIAL CAPACITY = 175 TON (-20m)
  - ALLOWABLE LATERAL CAPACITY = 30 TON (-20m)
  - ALLOWABLE TENSILE CAPACITY = 90 TON (-20m)
9. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



CONCRETE FOUNDATION, PILE CAP & COLUMN 1ST FLOOR PLAN  
SCALE 1 : 150

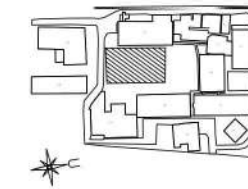
MEMBER SCHEDULE:			
NO.	MARK	DIMENSION	REMARK
1	F-A	SEE DETAIL	FOUNDATION + 3 BOREPILE
2	F-A1	4800 x 4800	FOUNDATION + 5 BOREPILE
3	F-A2	5600 x 3600	FOUNDATION + 6 BOREPILE
4	F-B	11200 x 11200	FOUNDATION + 49 BOREPILE
5	F-B1	SEE DETAIL	FOUNDATION + 57 BOREPILE
6	F-C	1600 x 1600	FOUNDATION + 1 BOREPILE
6	F-D	1800 x 1825	FOUNDATION + 1 BOREPILE



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AREA KEYPLAN



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  - FOR BORED PILE & FOUNDATION  $f'_c = 25$  MPa
  - COLUMN, BEAM & SLAB  $f'_c = 30$  MPa
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  - $F_y = 420$  MPa
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  - $F_{yA} = 525$  MPa
  - $F_{uA} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
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LEGEND

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL FOUNDATION	1 : 50

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

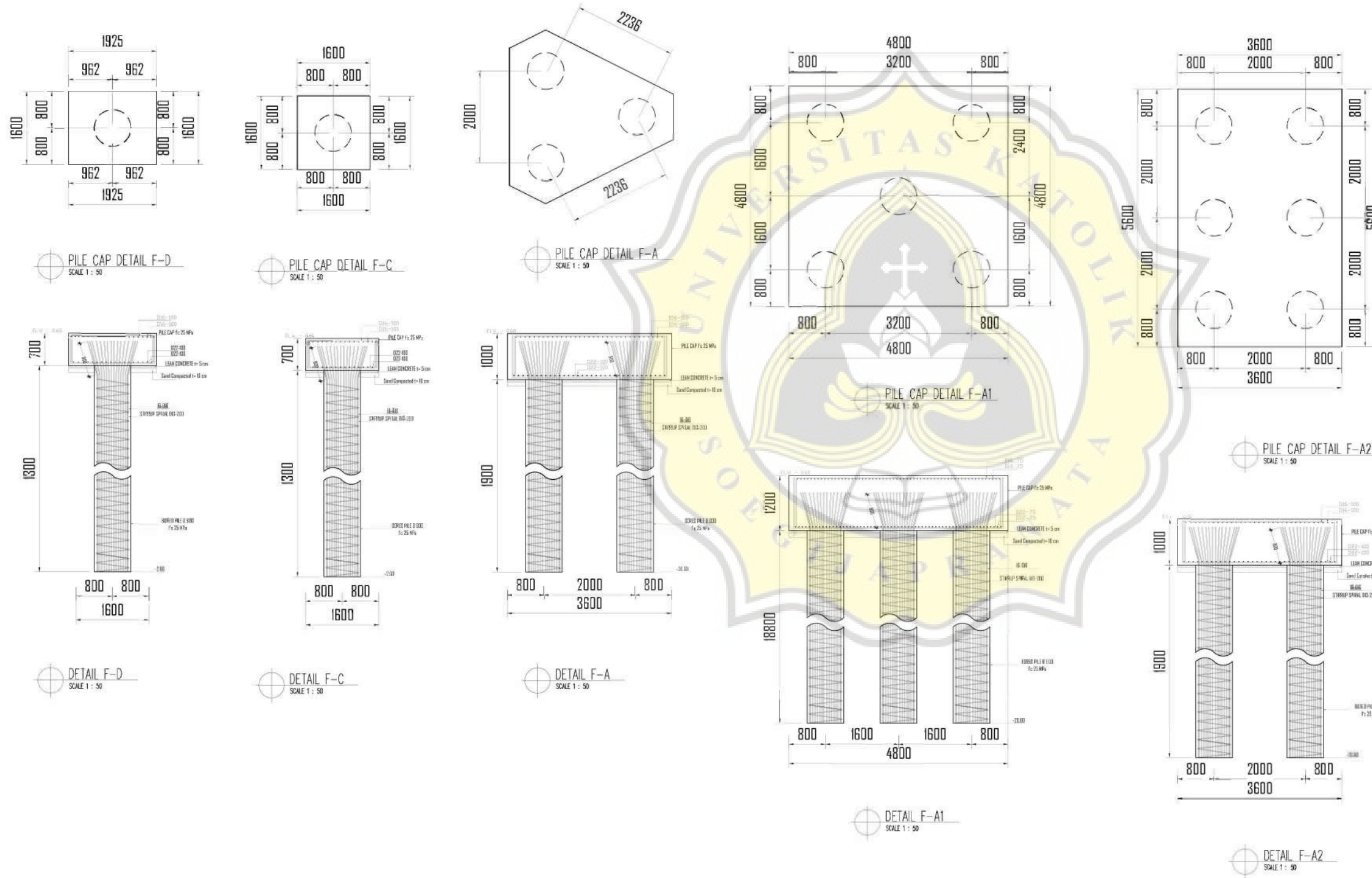
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-5



REFERENCE DRAWINGS

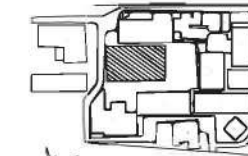
KEYPLAN



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AREA KEYPLAN



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  - FOR BORED PILE & FOUNDATION  $f_c' = 25 \text{ MPa}$
  - COLUMN, BEAM & SLAB  $f_c' = 30 \text{ MPa}$
6. REINFORCEMENT STEEL:
  - $F_y = 420 \text{ MPa}$
  - $F_u = 560 \text{ MPa}$
  - $F_{yA} = 525 \text{ MPa}$
  - $F_{uA} = 700 \text{ MPa}$
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. PREDICTED PILE CAPACITY:
  - ALLOWABLE AXIAL CAPACITY = 175 TON (-20m)
  - ALLOWABLE LATERAL CAPACITY = 30 TON (-20m)
  - ALLOWABLE TENSILE CAPACITY = 90 TON (-20m)
9. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING. IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

JUDUL PEKERJAAN

**PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR	SKALA
DETAIL FOUNDATION	1 : 50

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

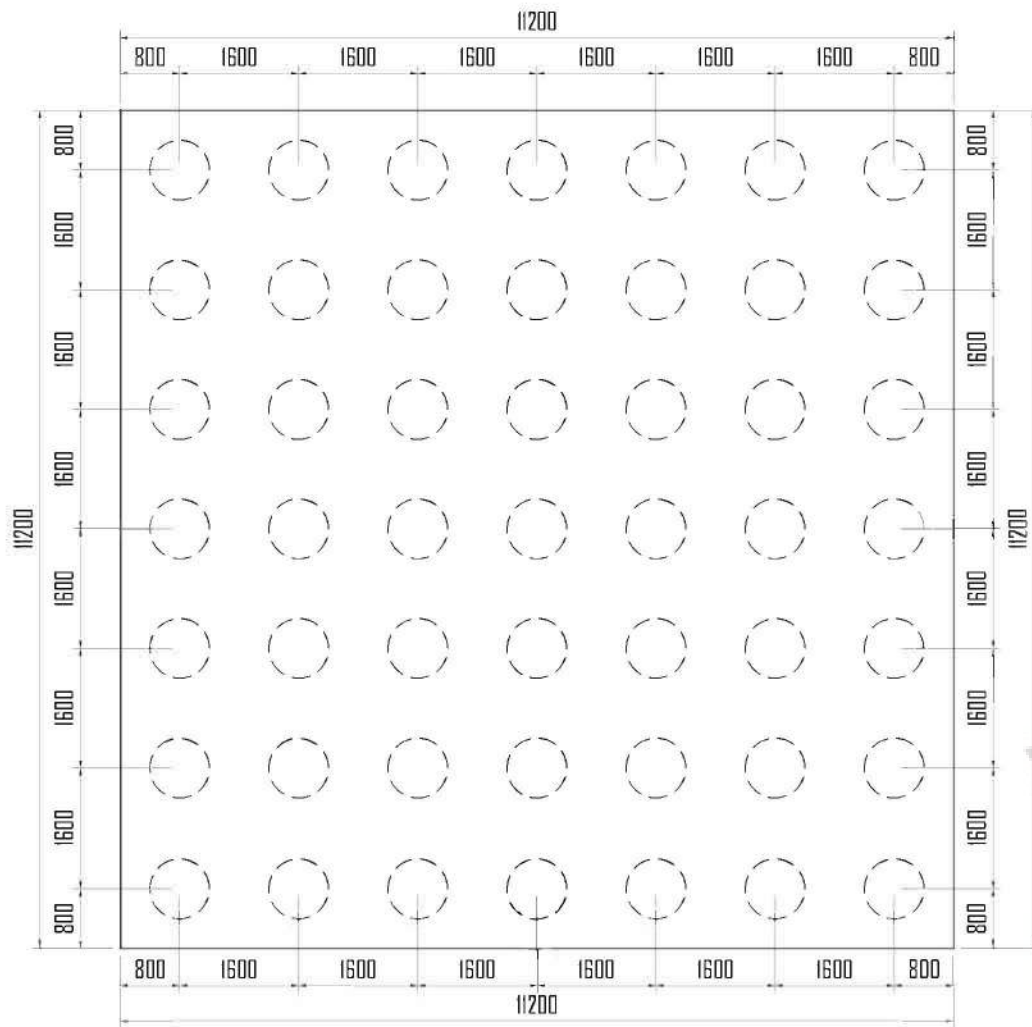
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

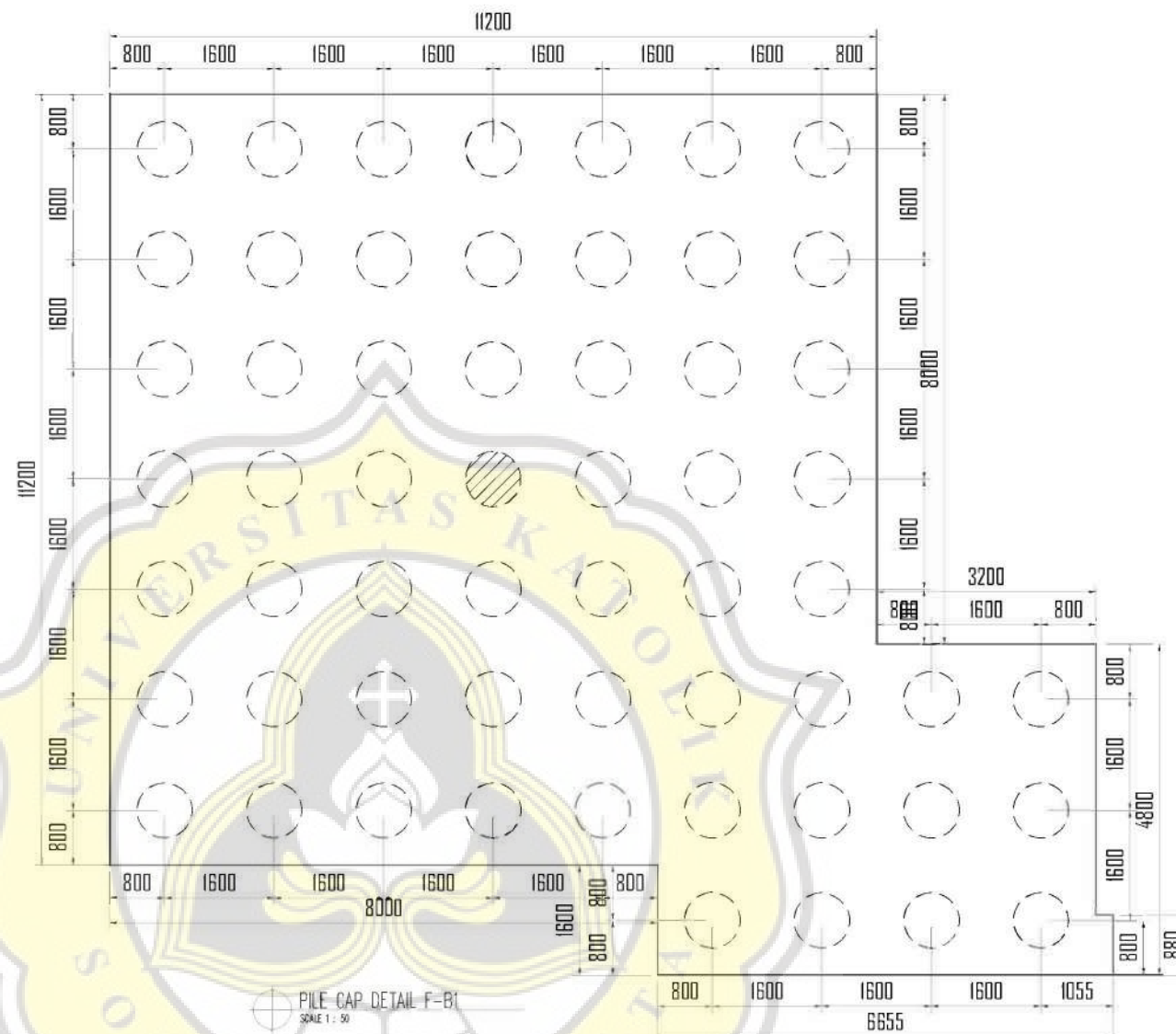
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LEMBAR

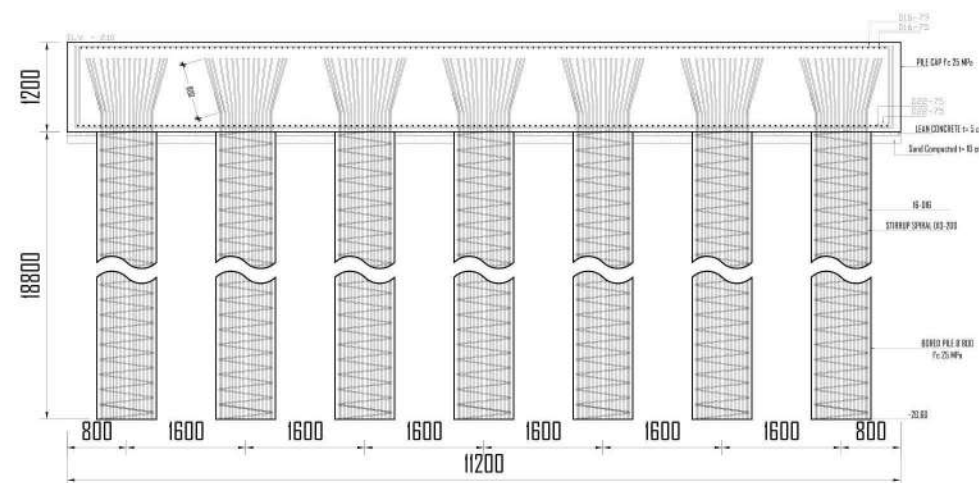
LB-6



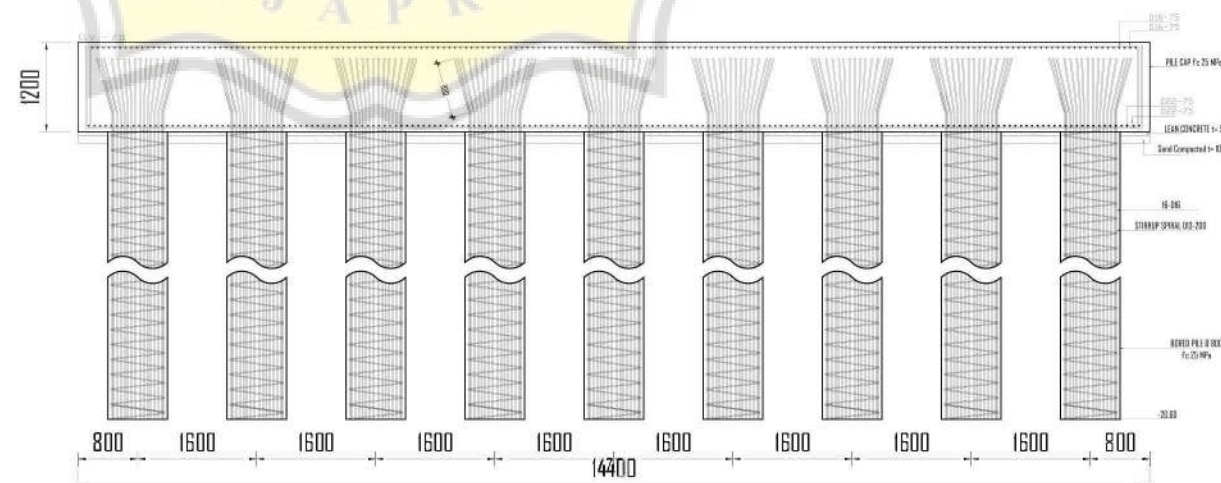
PILE CAP DETAIL F-B  
SCALE 1 : 50



PILE CAP DETAIL F-B1  
SCALE 1 : 50



DETAIL F-B  
SCALE 1 : 50



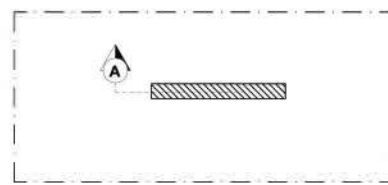
DETAIL F-B1  
SCALE 1 : 50

REFERENCE DRAWINGS

KEYPLAN

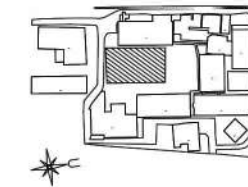


PLAN SHEAR WALL 1a



PLAN SHEAR WALL 1b

AREA KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
3. TOC=0.500 ± FFL±0.000
4. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

JUDUL GAMBAR

SKALA

DETAIL SHEAR WALL 1a & 1b

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

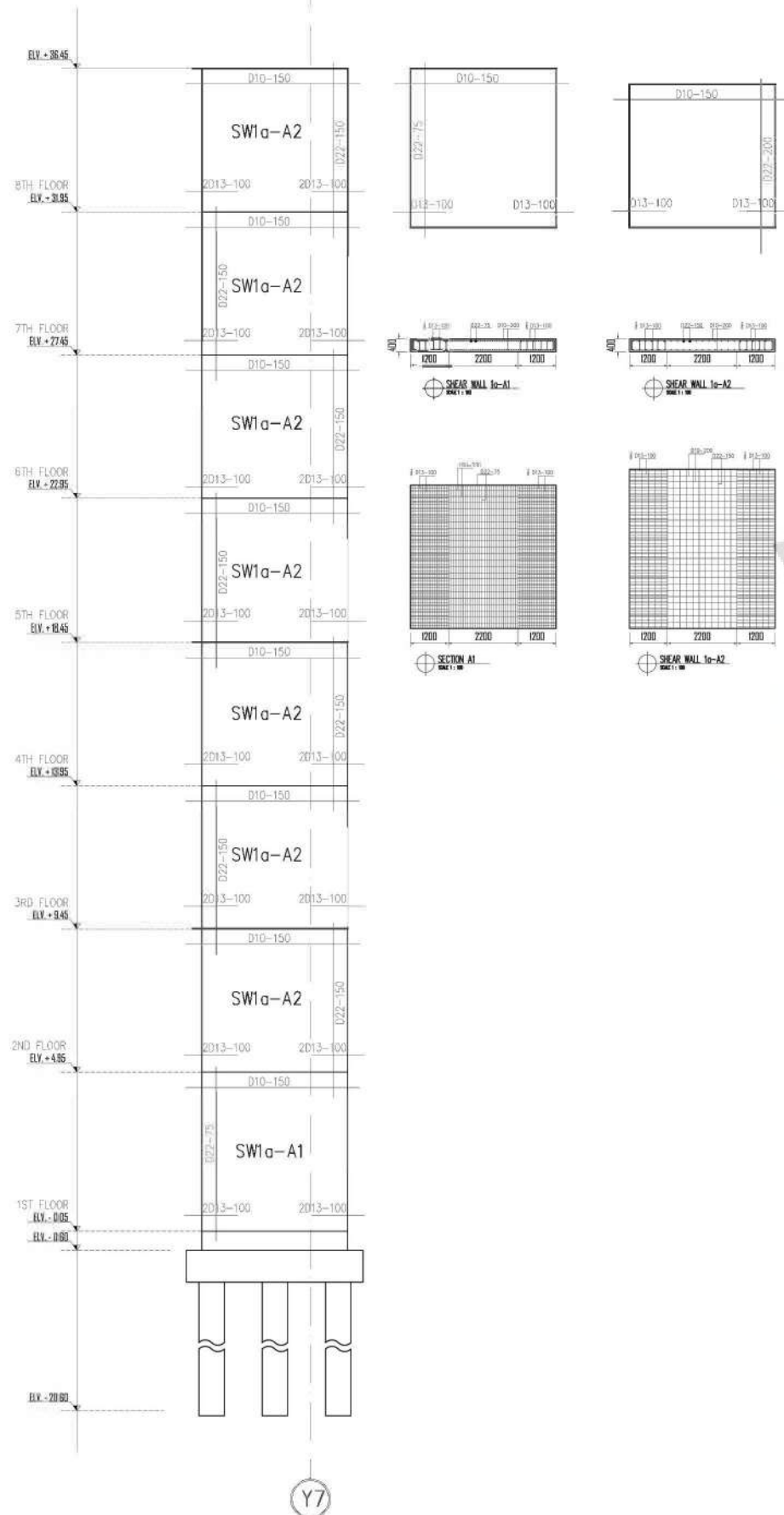
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

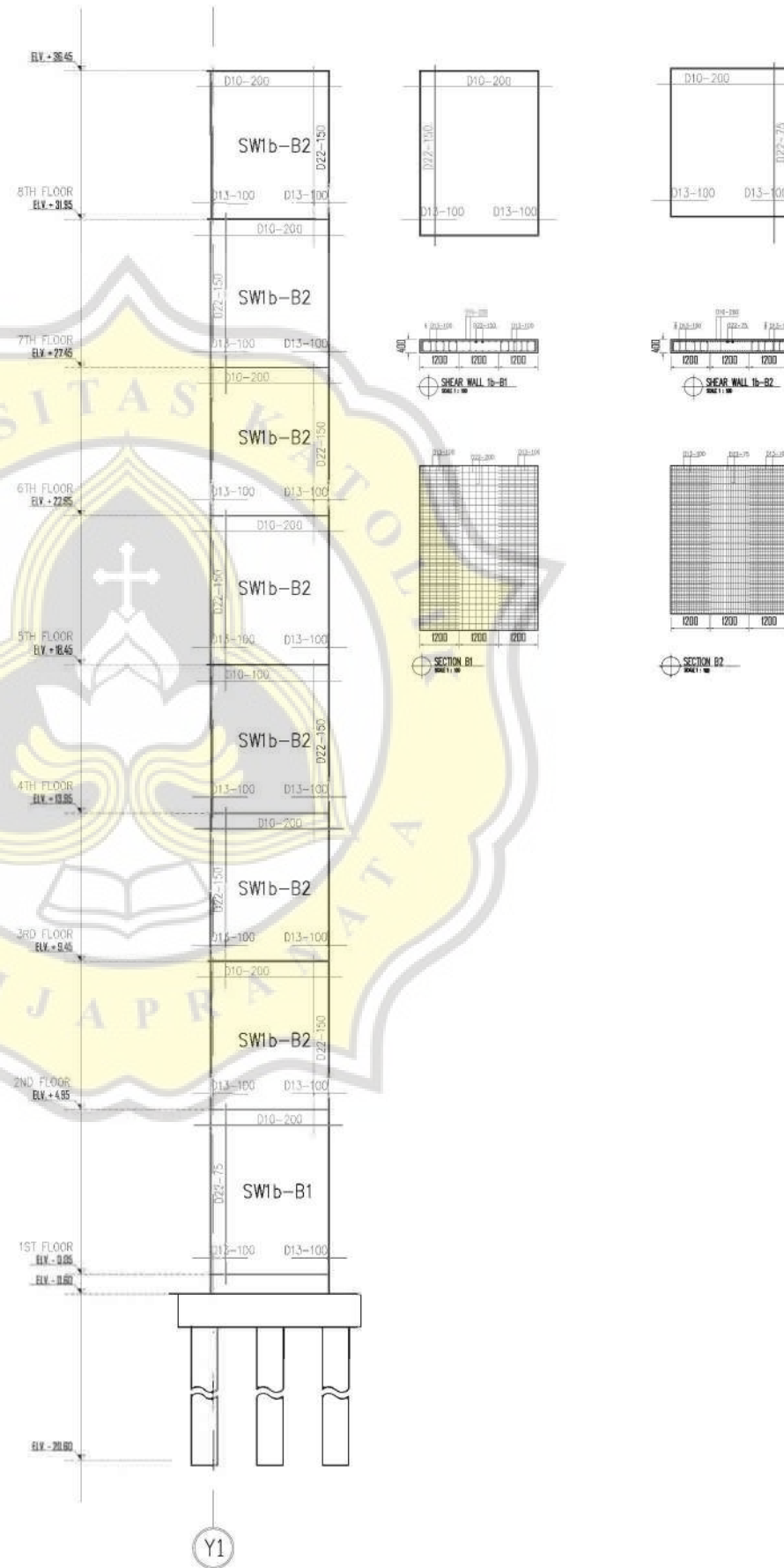
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LEMBAR

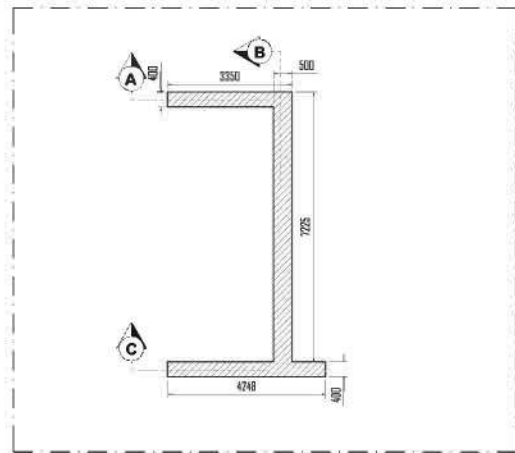
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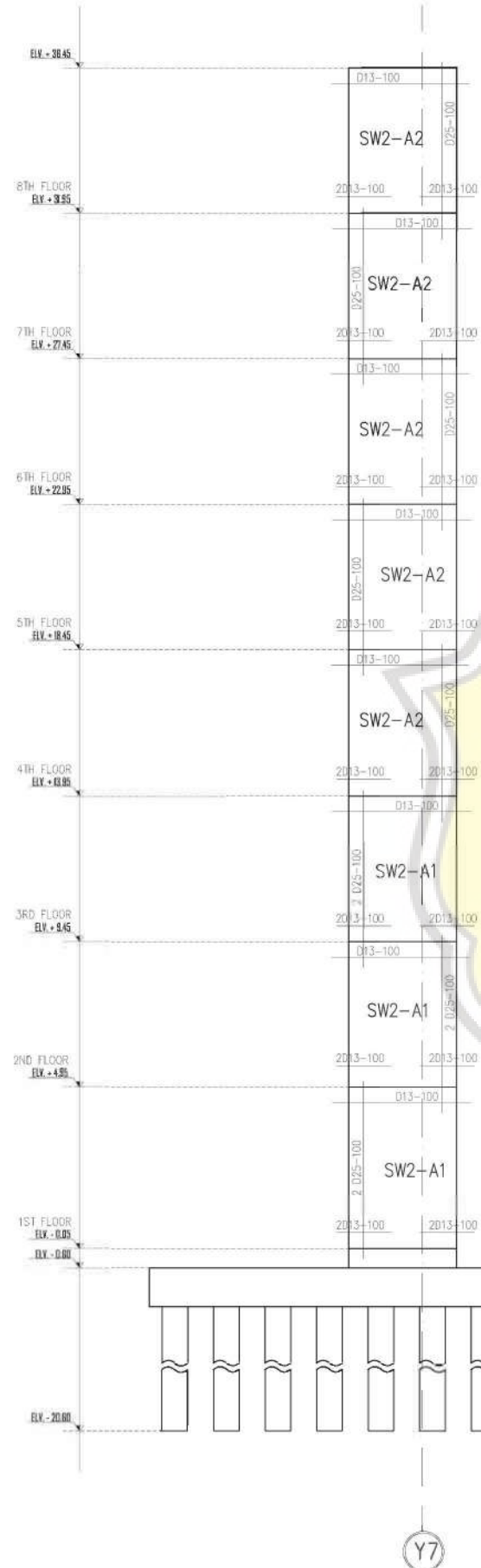
SHEAR WALL 1a ELEVATION  
Scale 1 : 100



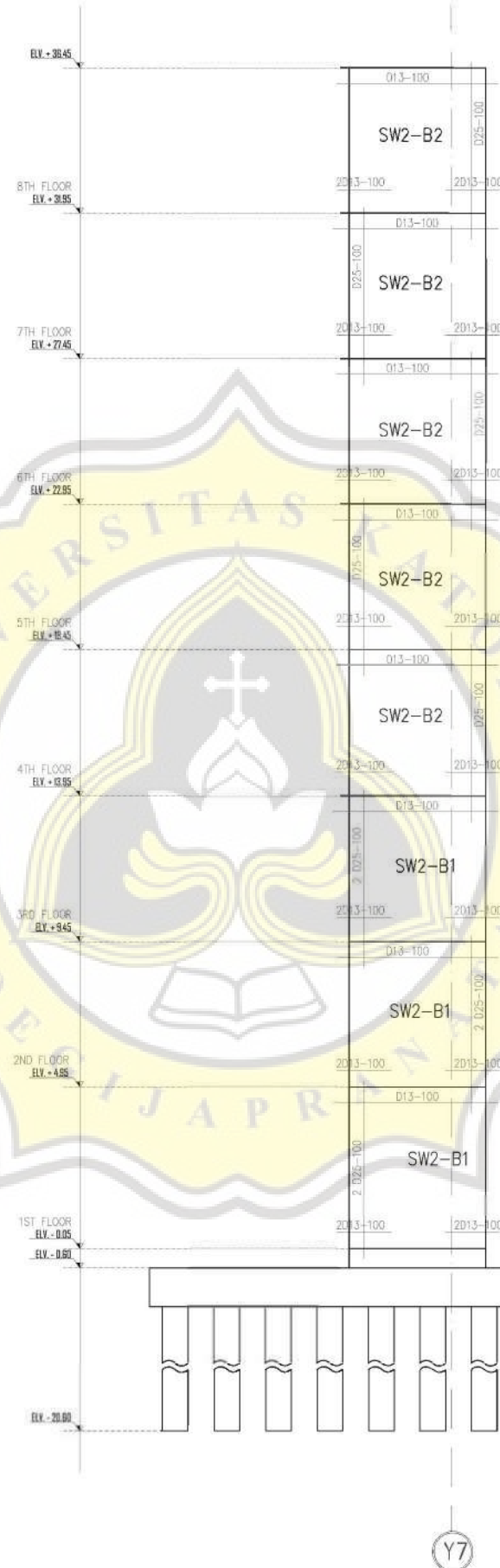
SHEAR WALL 1b ELEVATION  
Scale 1 : 100



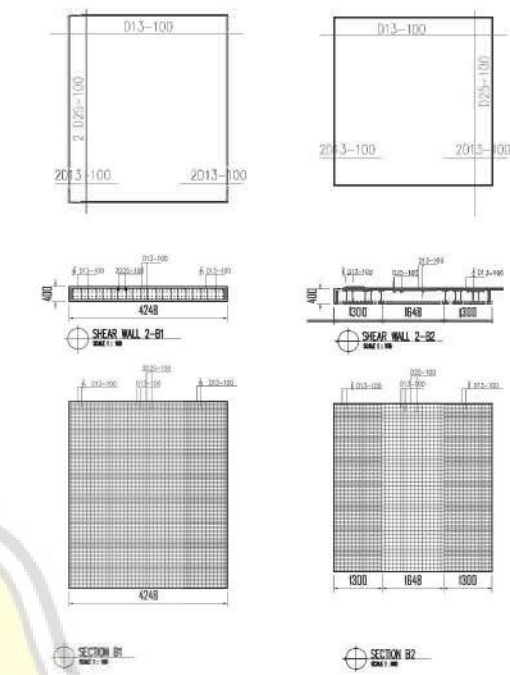
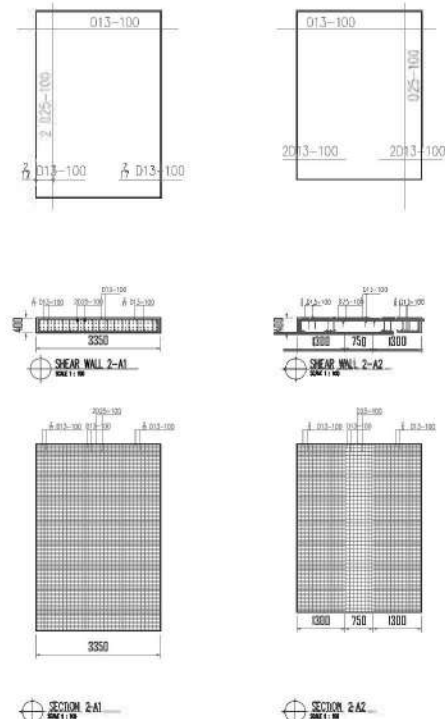
PLAN SHEAR WALL 2



SHEAR WALL 2a ELEVATION  
Scale 1 : 100



SHEAR WALL 2b ELEVATION  
Scale 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{yE} = 525$  MPa  
-  $F_{uE} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 2a & 2b	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA	(17.B1.0044)
AMELIA PUTRI SABELA	(17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.
--------------------------

DOSEN PEMBIMBING 2

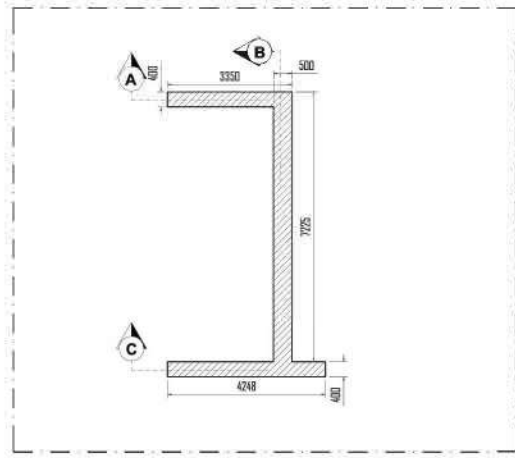
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.
---

TANGGAL

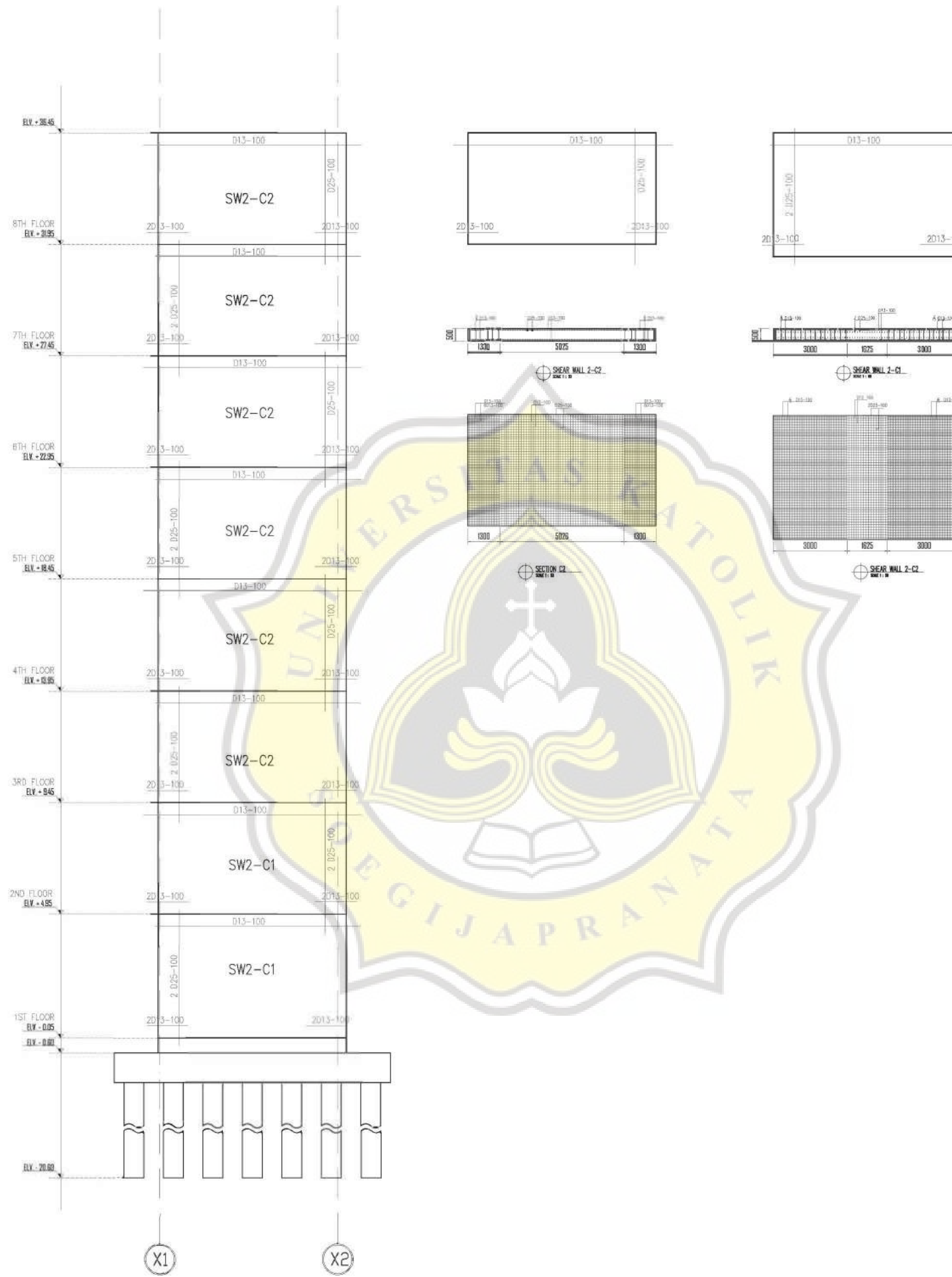
CATATAN

LEMBAR

LB-8

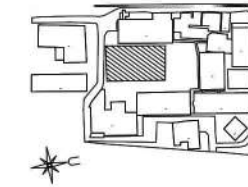


PLAN SHEAR WALL 2



SHEAR WALL 2c ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  
fc' = 25 MPa  
- COLUMN, BEAM & SLAB fc' = 30 MPa
6. REINFORCEMENT STEEL:  
- Fy = 420 MPa  
- Fu = 560 MPa  
- Fyc = 525 MPa  
- Fuc = 700 MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 2c	1 : 100

DISUSUN OLEH:	
LUTHFI NINDYAPRADANA	(17.B1.0044)
AMELIA PUTRI SABELA	(17.B1.0131)

DOSEN PEMBIMBING 1	
Dr. Hermawan, S.T., M.T.	

DOSEN PEMBIMBING 2	
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.	

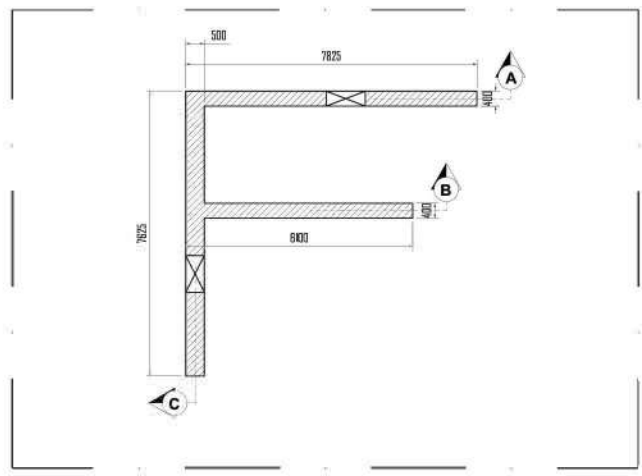
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CATATAN

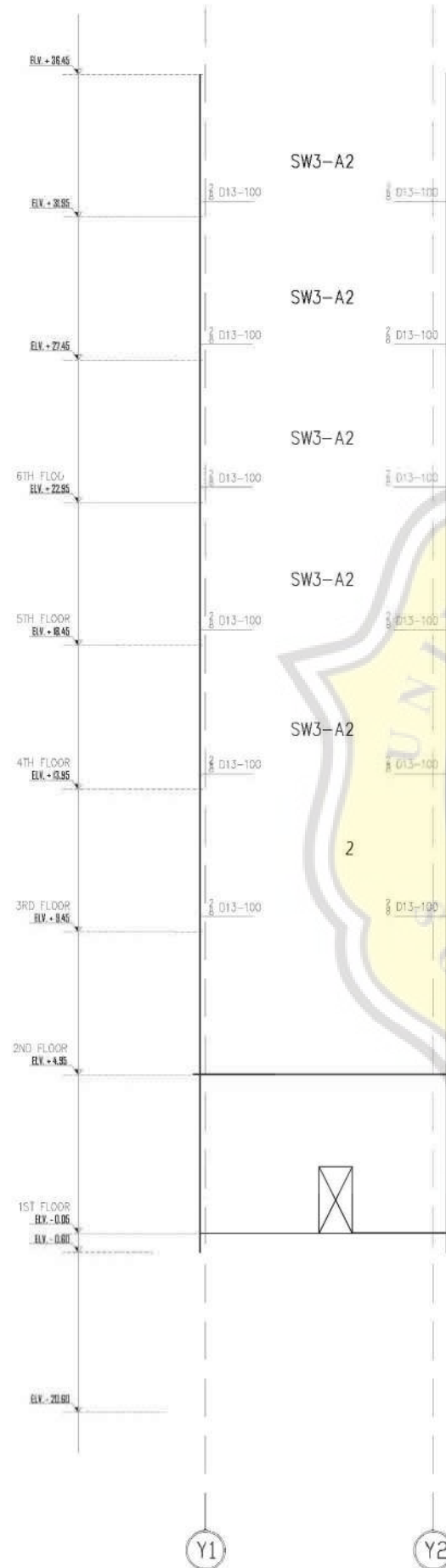
LEMBAR

LB-9

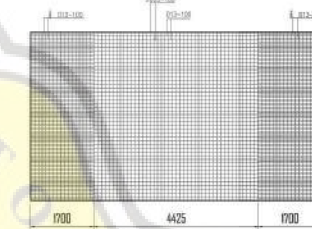
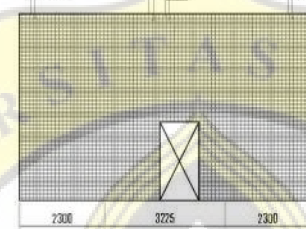
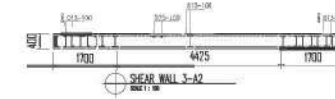
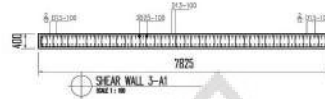
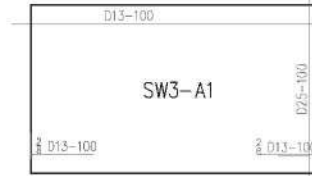
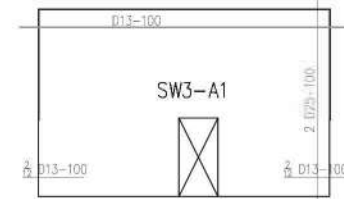




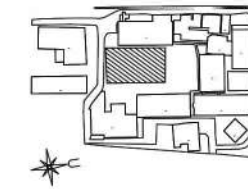
PLAN SHEAR WALL 3



SHEAR WALL 3a ELEVATION  
Scale 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = ±0.500 ≠ FFL ± 0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

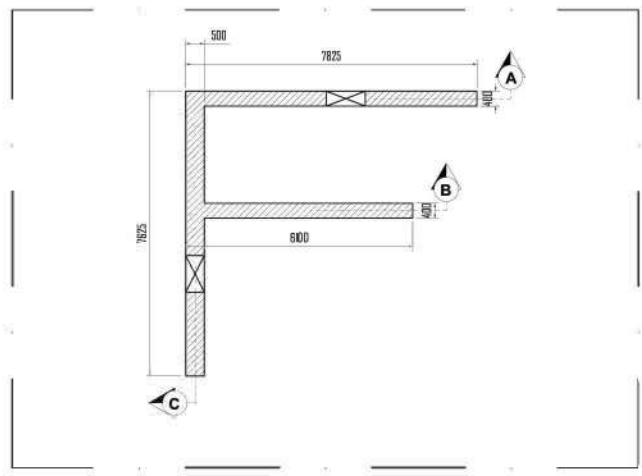
JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

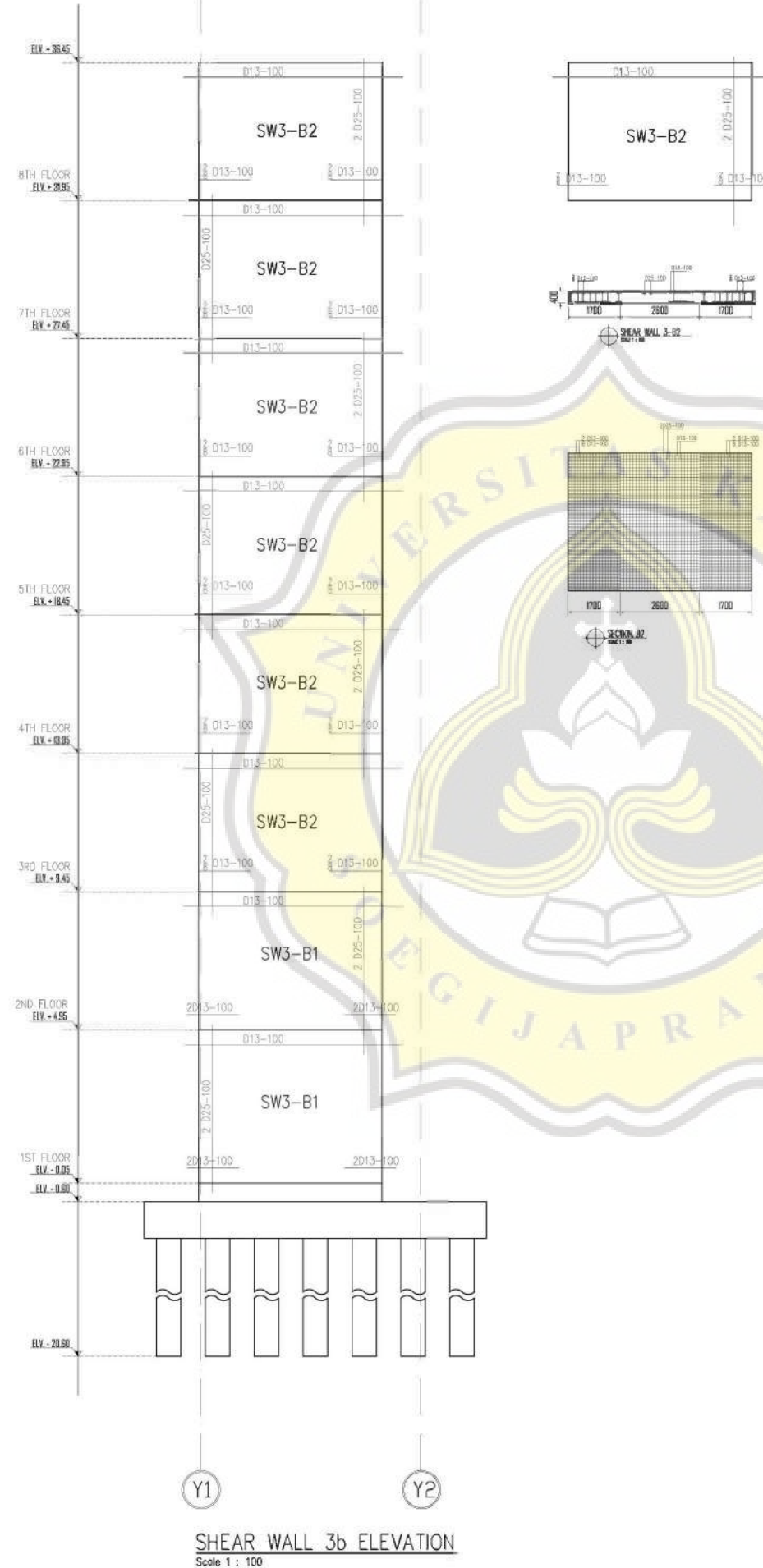
JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 3a	1 : 100

DISUSUN OLEH:	
LUTHFI NINDYAPRADANA (17.B1.0044)	
AMELIA PUTRI SABELA (17.B1.0131)	
DOSEN PEMBIMBING 1	
Dr. Hermawan, S.T., M.T.	
DOSEN PEMBIMBING 2	
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.	

TANGGAL
CATATAN
LEMBAR
LB-10



PLAN SHEAR WALL 3



SHEAR WALL 3b ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{yE} = 525$  MPa  
-  $F_{uE} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 3b	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

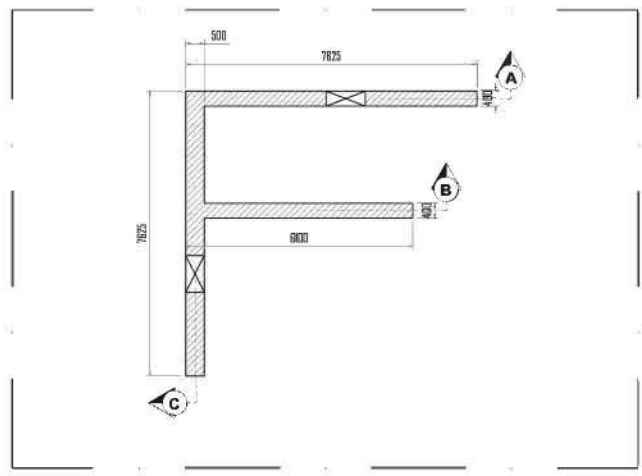
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

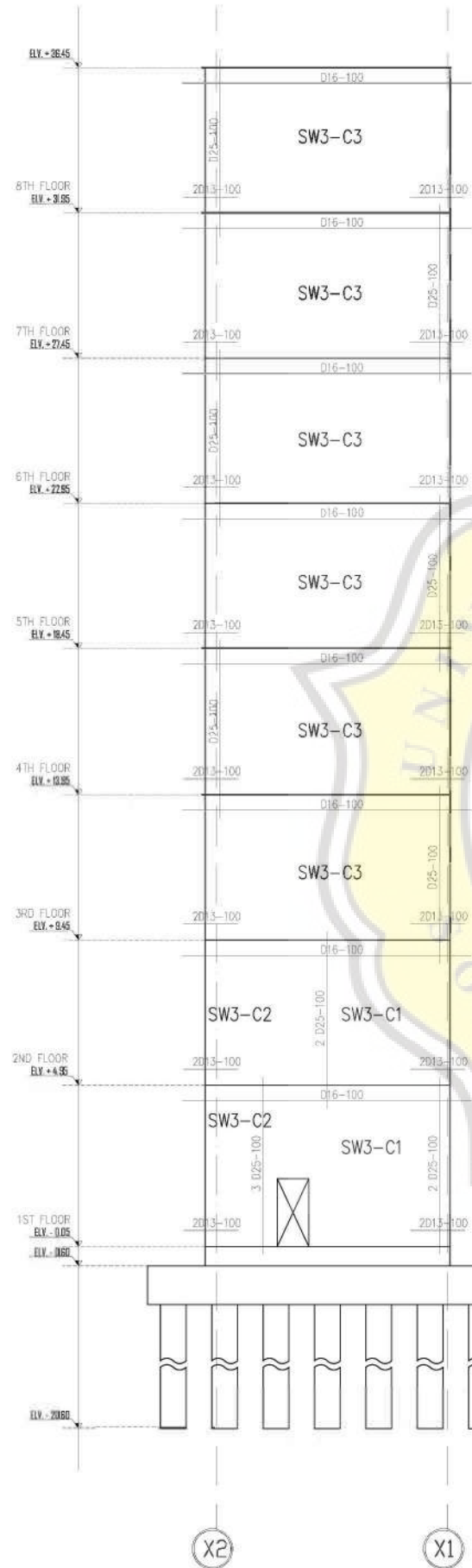
CATATAN

LEMBAR

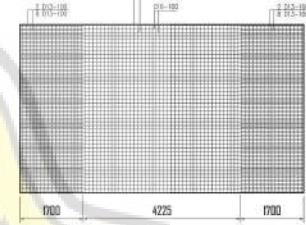
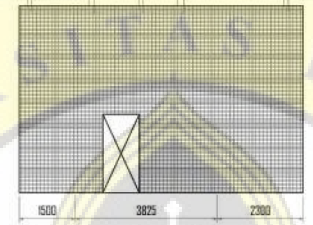
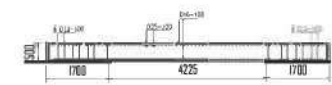
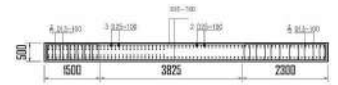
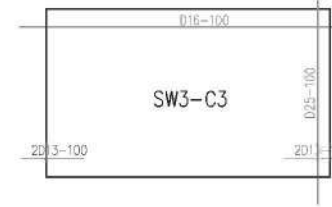
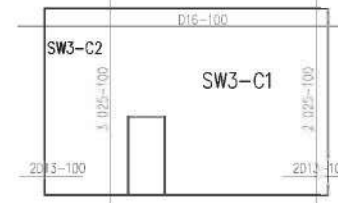
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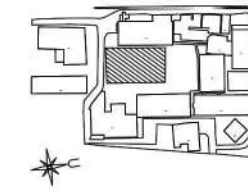
PLAN SHEAR WALL 3



SHEAR WALL 3c ELEVATION  
Scale 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 3c	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

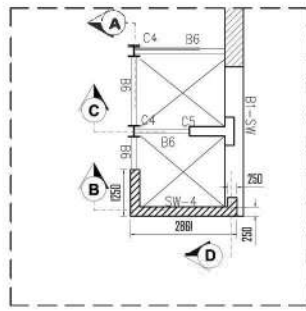
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

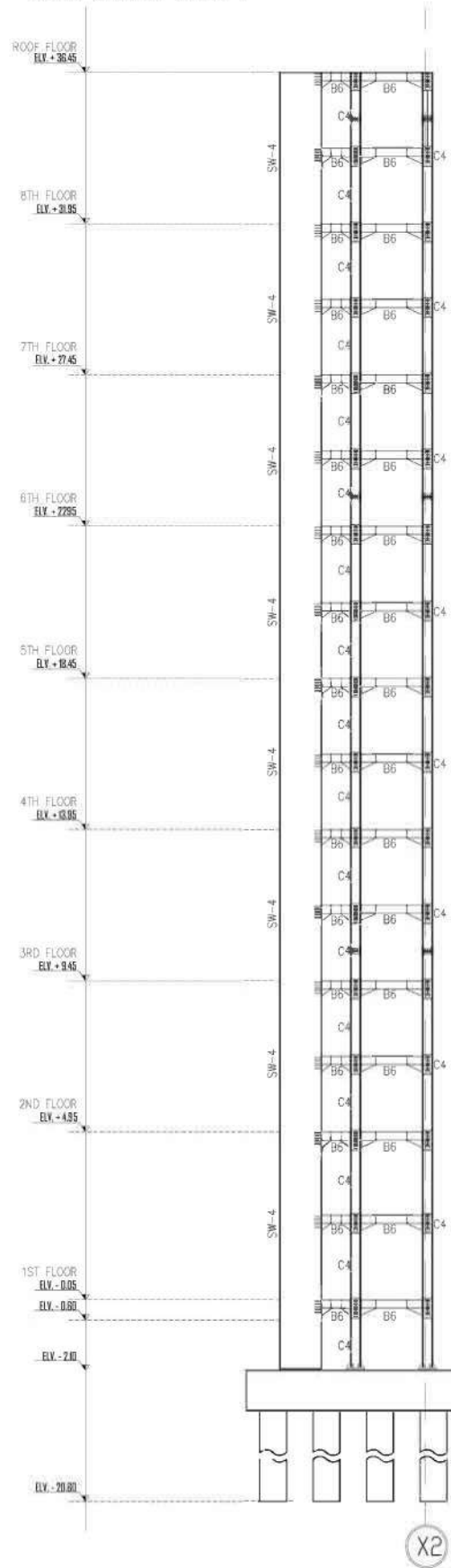
CATATAN

LEMBAR

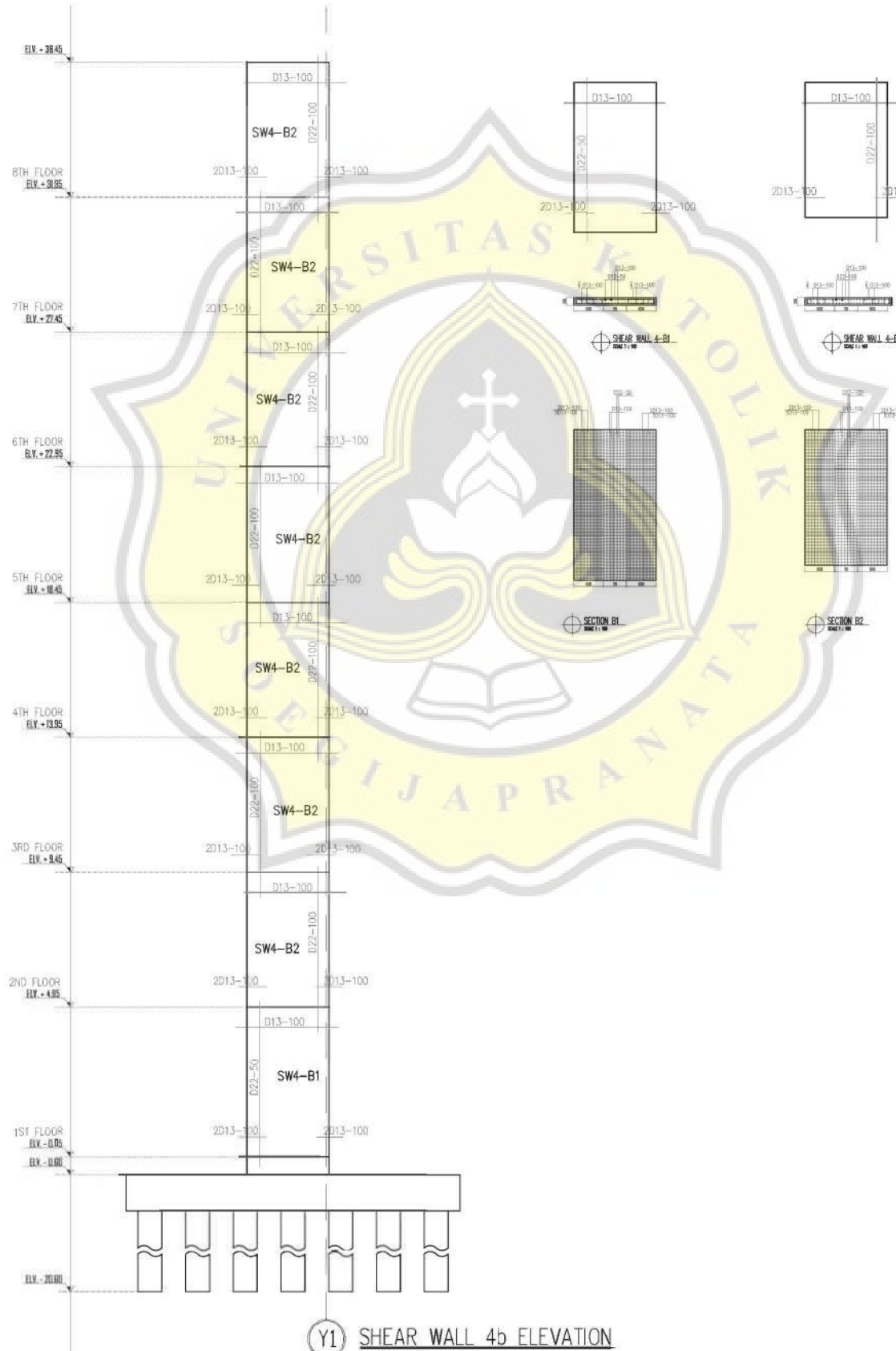
LB-12



PLAN SHEAR WALL 4



X2 LIFT 4a ELEVATION  
Scale 1 : 100



Y1 SHEAR WALL 4b ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = 0.500 ± FFL ± 0.000
5. CONCRETE QUALITY:
  - FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa
  - COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:
  - $F_y = 420$  MPa
  - $F_u = 560$  MPa
  - $F_{yA} = 525$  MPa
  - $F_{uA} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

DETAIL SHEAR WALL 4a & 4b

SKALA

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

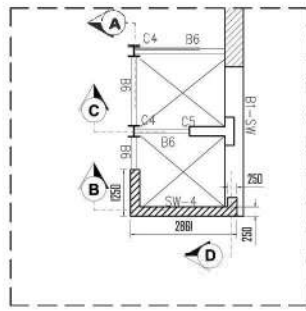
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

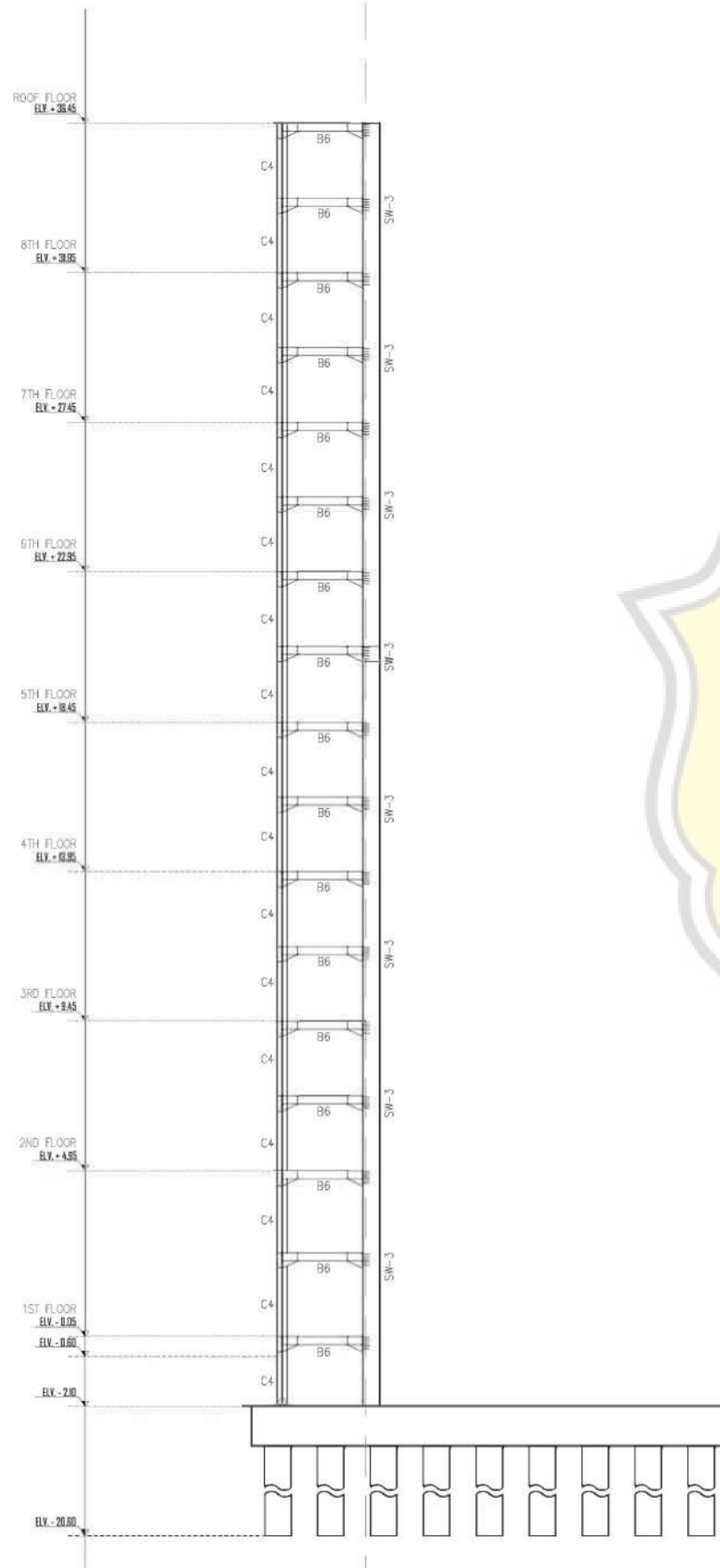
CATATAN

LEMBAR

LB-13

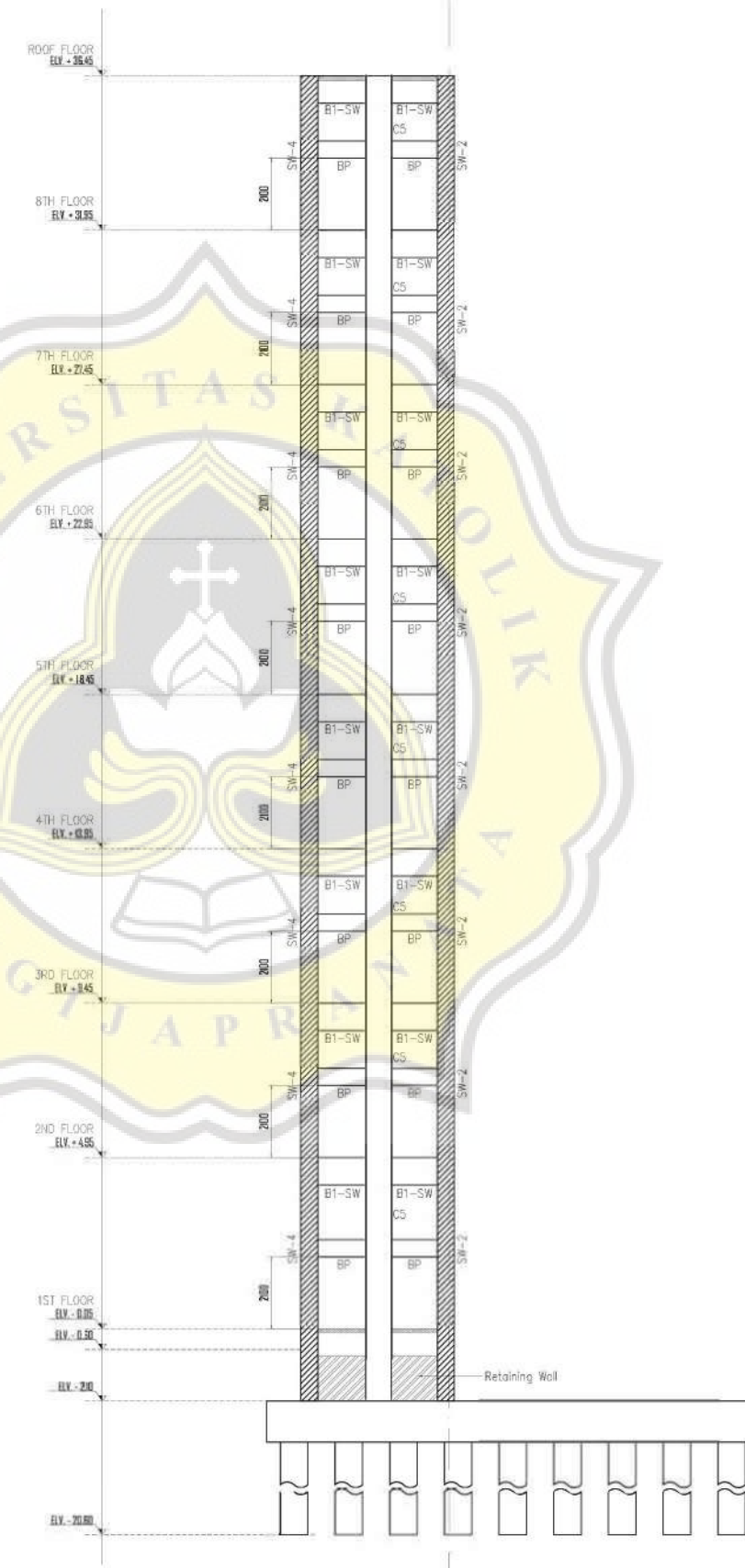


PLAN SHEAR WALL 4



Y1

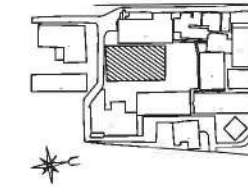
LIFT 4c ELEVATION  
Scale 1 : 100



X2

LIFT 4d ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  
fc' = 25 MPa  
- COLUMN, BEAM & SLAB fc' = 30 MPa
6. REINFORCEMENT STEEL:  
- Fy = 420 MPa  
- Fu = 560 MPa  
- Fys = 525 MPa  
- Fuo = 700 MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 4c & 4d	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA	(17.B1.0044)
AMELIA PUTRI SABELA	(17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.
--------------------------

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.
---

TANGGAL

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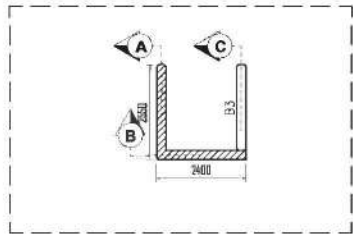
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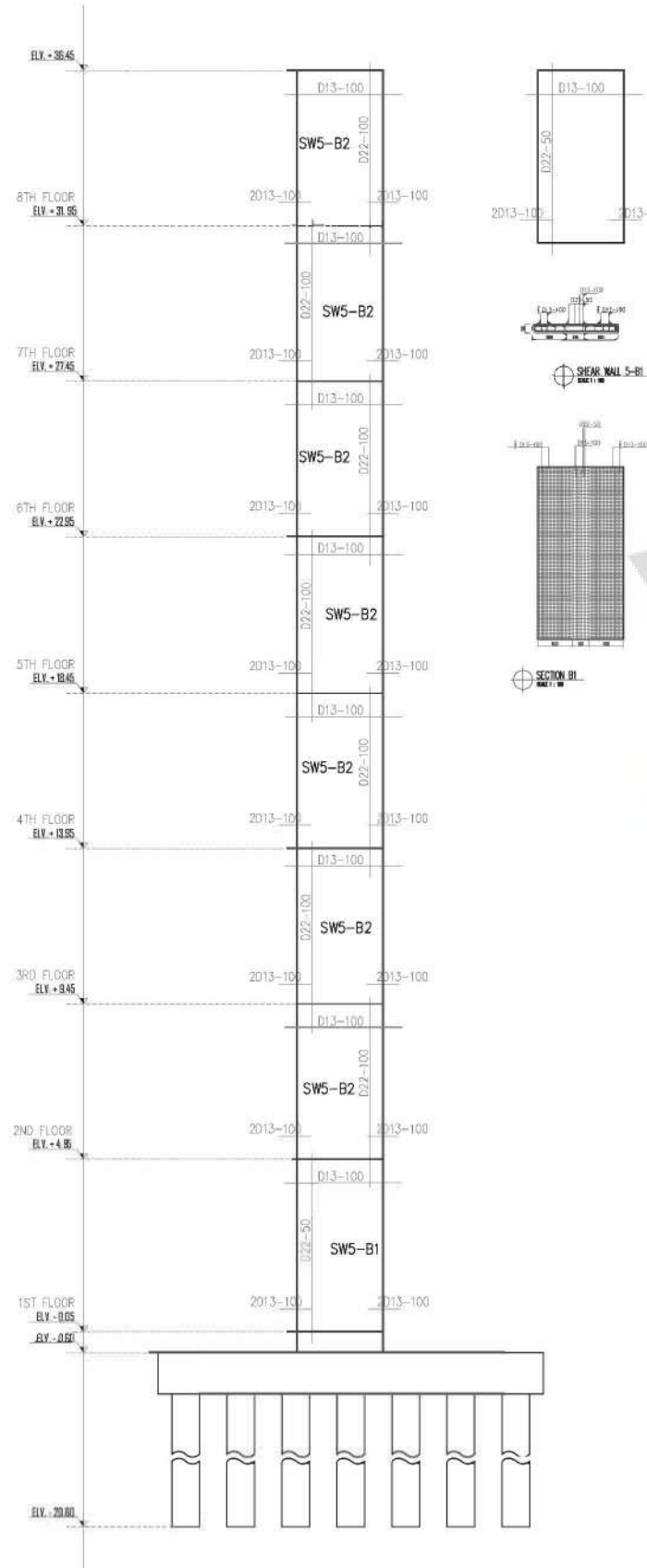
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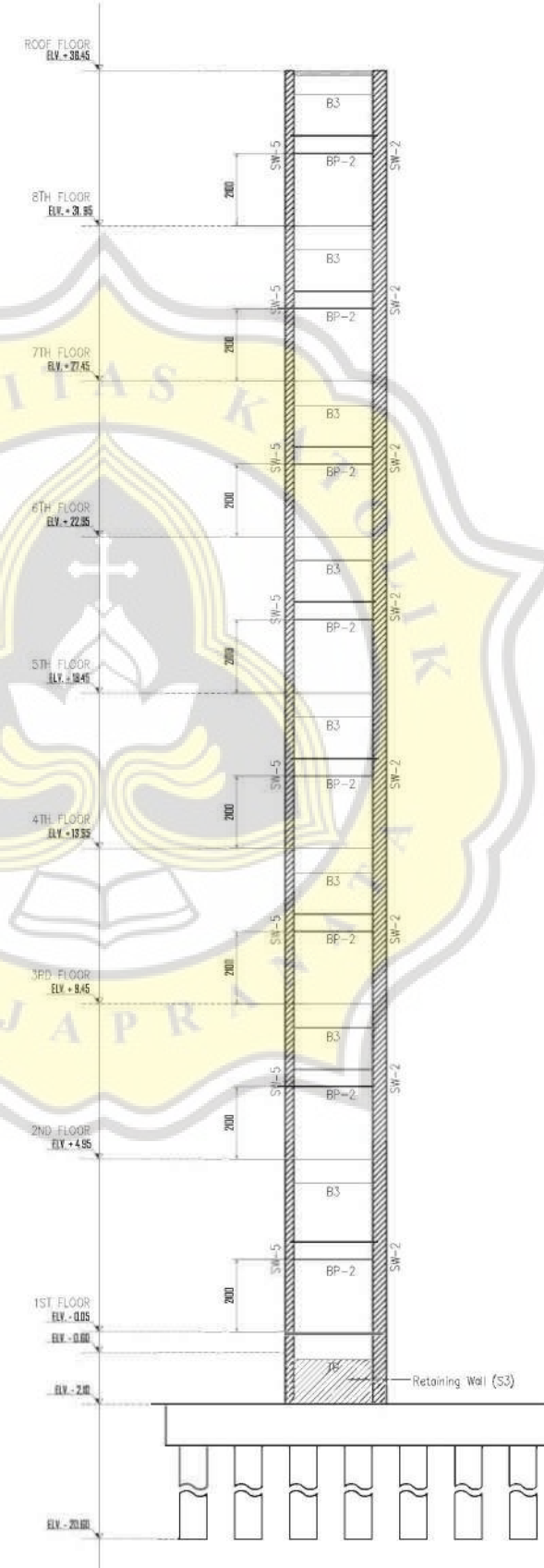
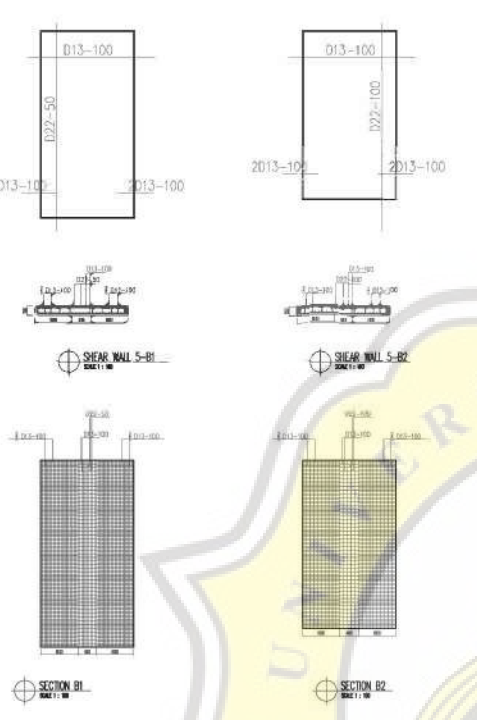
LB-14



PLAN SHEAR WALL 5

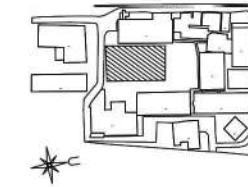


SHEAR WALL 5 A-B ELEVATION  
Scale 1 : 100



LIFT 5c ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 5 A-B & 5c	1 : 100

DISUSUN OLEH:	
LUTHFI NINDYAPRADANA (17.B1.0044)	
AMELIA PUTRI SABELA (17.B1.0131)	

DOSEN PEMBIMBING 1	
Dr. Hermawan, S.T., M.T.	

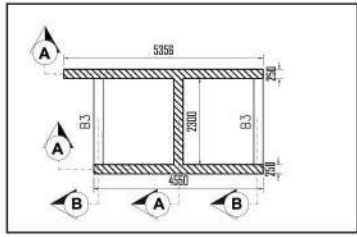
DOSEN PEMBIMBING 2	
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.	

TANGGAL	

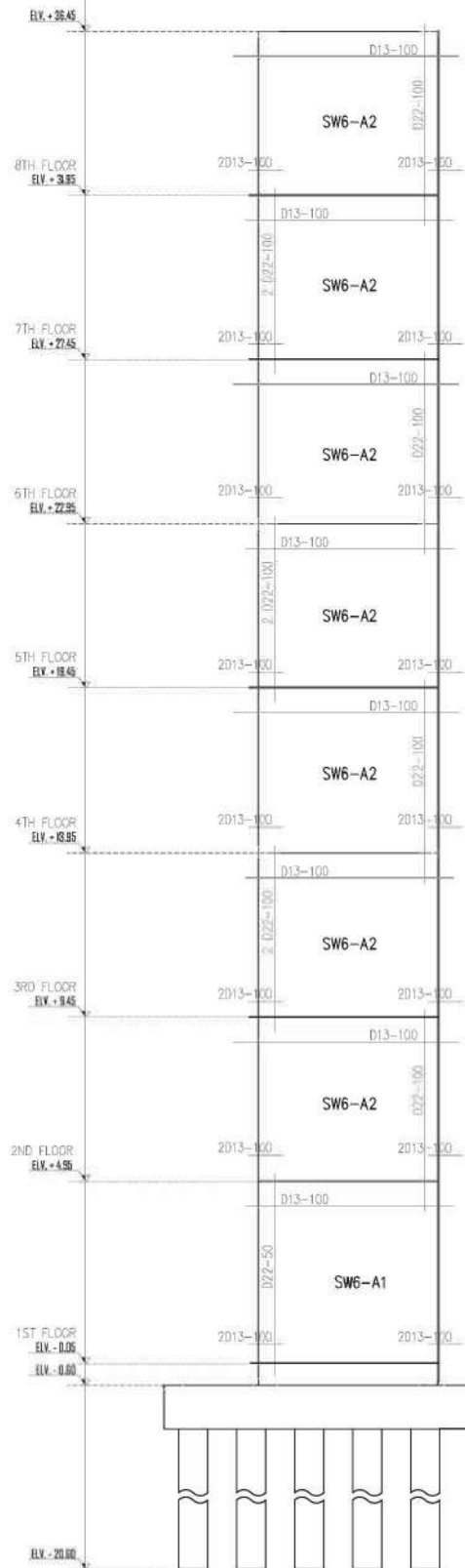
CATATAN	

LEMBAR	

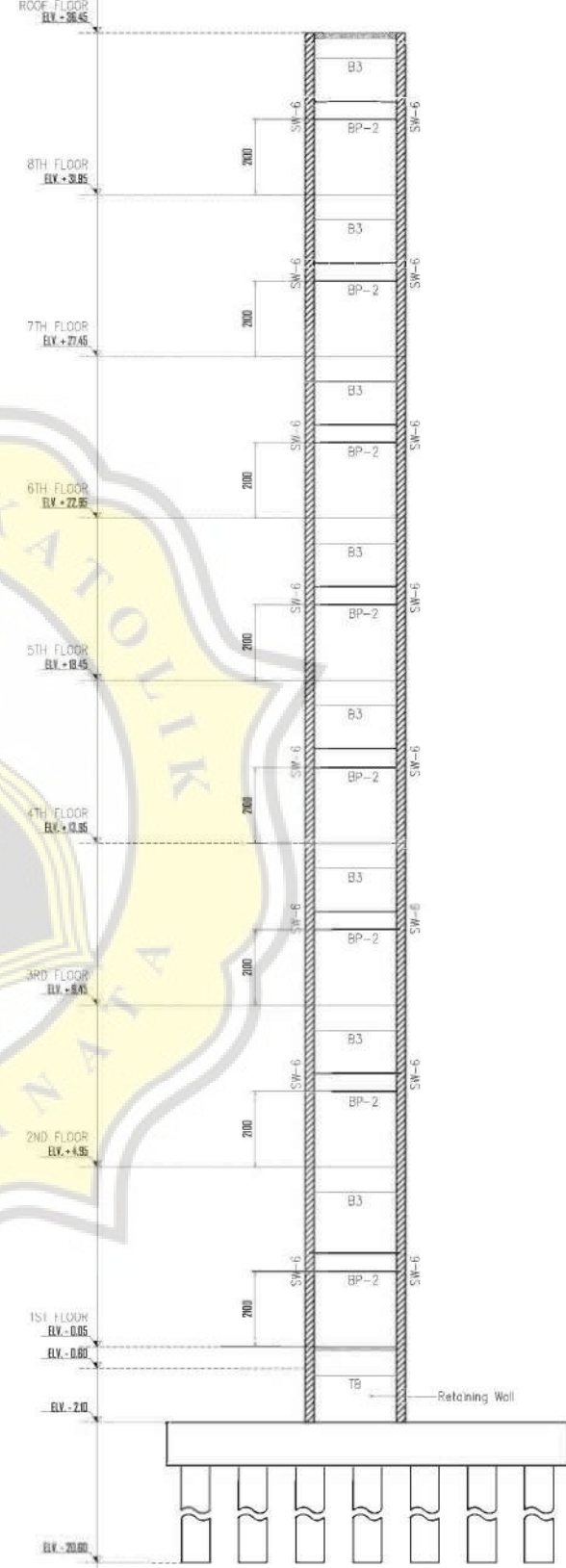
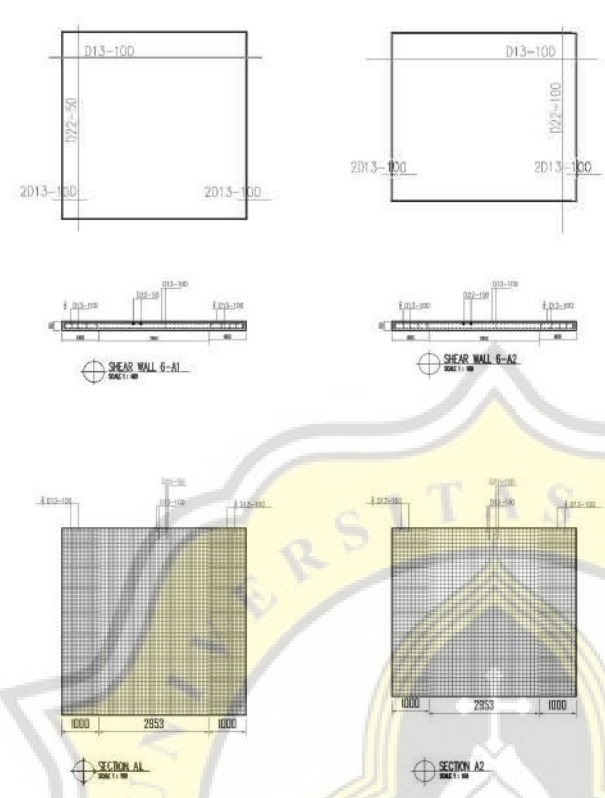
LEMBAR	



PLAN SHEAR WALL 6

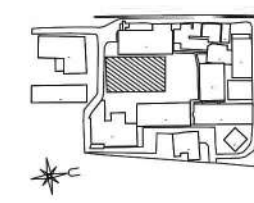


SHEAR WALL 6 A-B ELEVATION  
Scale 1 : 100



LIFT 6b ELEVATION  
Scale 1 : 100

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{yE} = 525$  MPa  
-  $F_{uE} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL SHEAR WALL 6 A-B & 6b	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA	(17.B1.0044)
AMELIA PUTRI SABELA	(17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.
--------------------------

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.
---

TANGGAL

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CATATAN

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LEMBAR

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LB-16



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

1ST FLOOR PLAN

1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

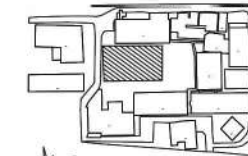
TANGGAL

CATATAN

LEMBAR

LB-17

AREA KEYPLAN



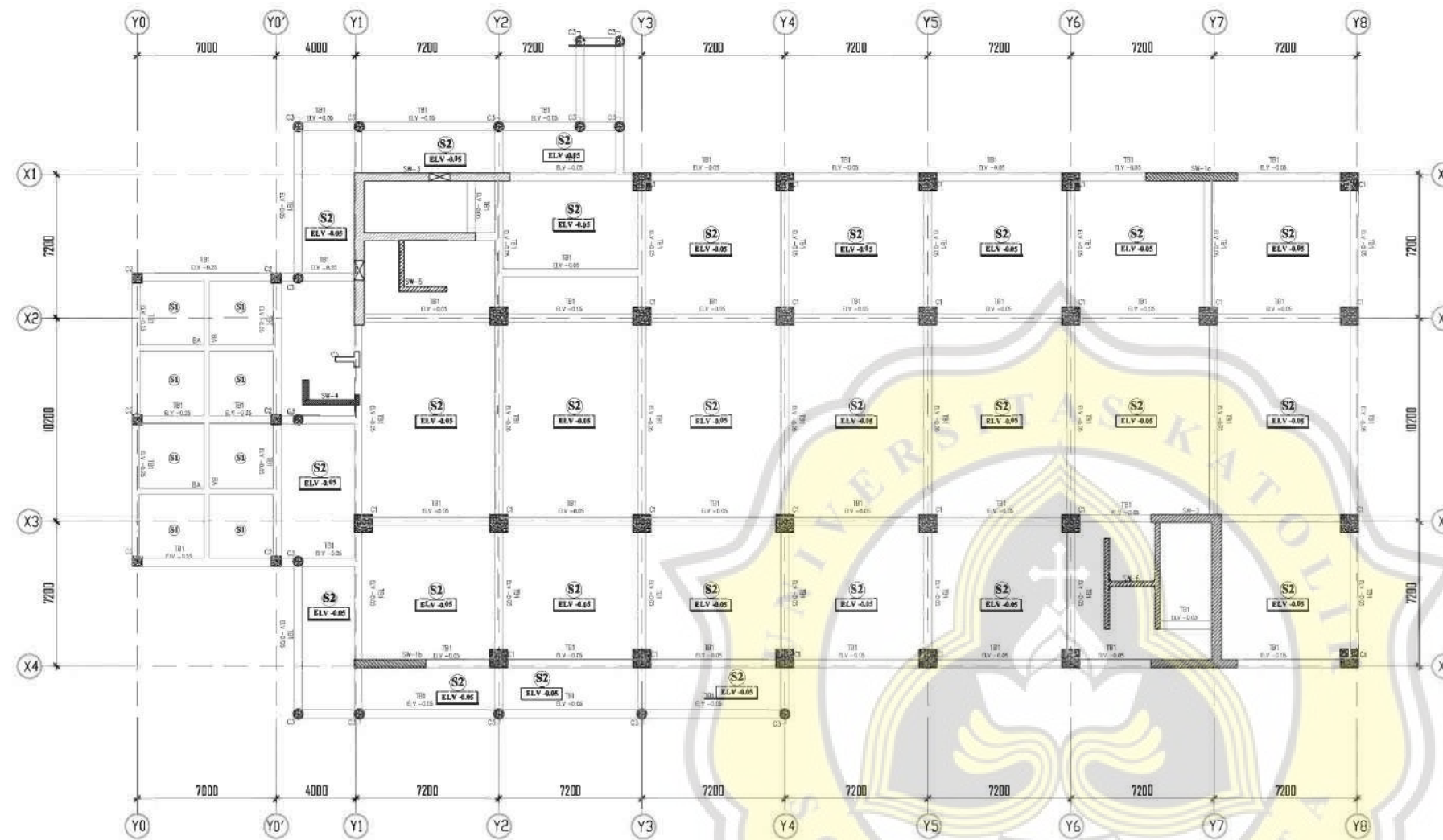
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = -0.500 ± FFL ± 0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



CONCRETE SLAB, COLUMN, TIE BEAM PLAN & SHEAR WALL 1ST FLOOR (TOC. -0.050)  
SCALE 1 : 150

MEMBER SCHEDULE:			
NO.	MARK	DIMENSION	REMARK
1	TB-1	400 x 800	CONCRETE TIE BEAM
2	S2	t = 100	CONCRETE SLAB
3	C1	900 x 900	CONCRETE COLUMN
4	C2	500 x 500	CONCRETE COLUMN
5	C3	Ø 500	CONCRETE COLUMN
6	C4	300 x 300	CONCRETE STEEL COLUMN
7	C5	750 x 1200	CONCRETE COLUMN
8	SW-1A	t = 400	CONCRETE WALL
9	SW-1B	t = 400	CONCRETE WALL
10	SW-2	t = 400	CONCRETE WALL
11	SW-3	t = 400	CONCRETE WALL
12	SW-4	t = 250	CONCRETE WALL
13	SW-5	t = 250	CONCRETE WALL
14	SW-6	t = 250	CONCRETE WALL





**UNIKA SOEGIJAPRANATA**

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

**PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR

SKALA

CANOPY PLAN

1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

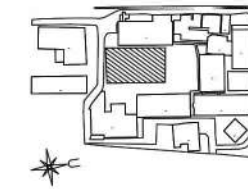
TANGGAL

CATATAN

LEMBAR

LB-18

AREA KEYPLAN



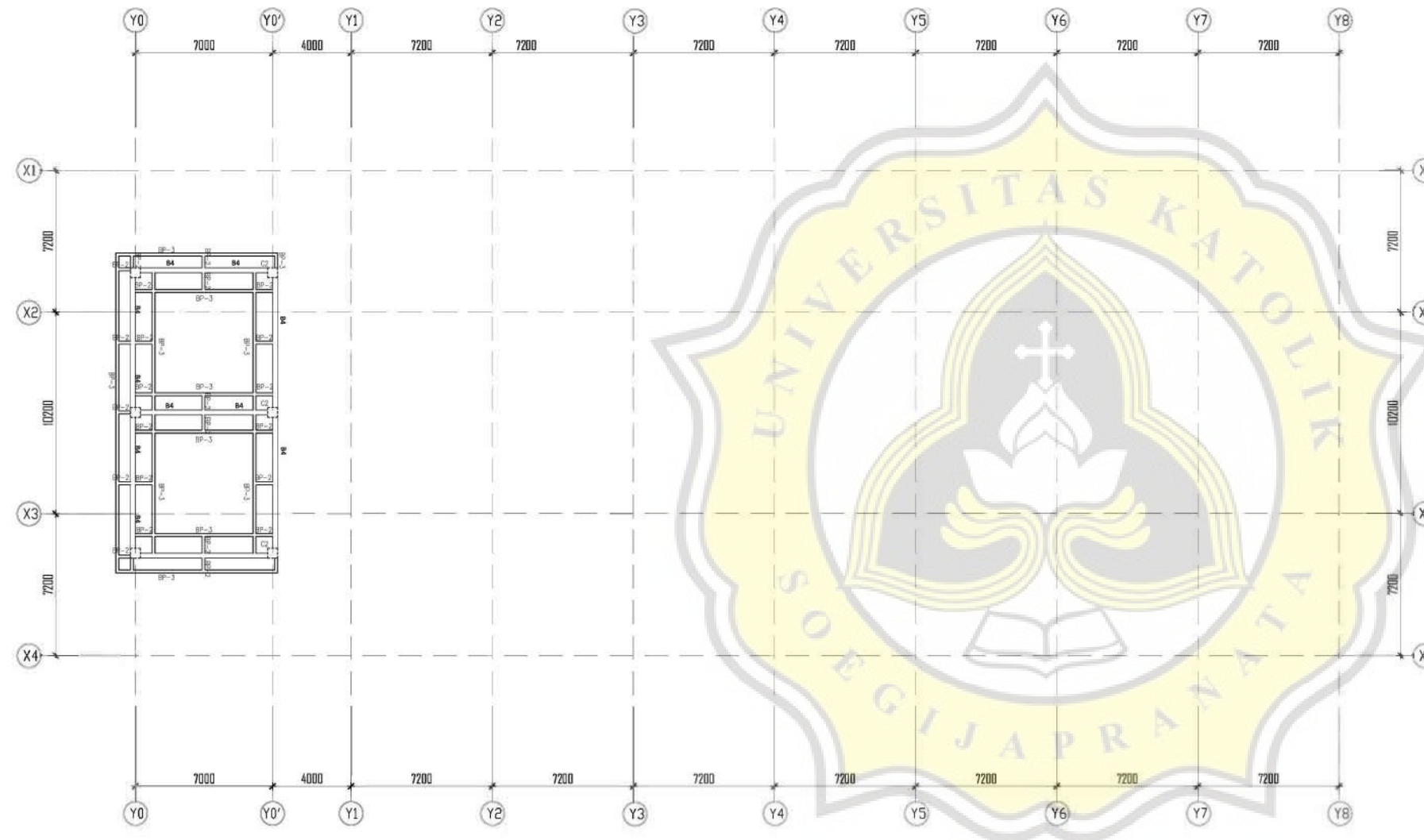
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM CANOPY PLAN  
SCALE 1 : 150

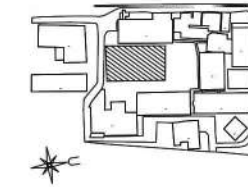
MEMBER SCHEDULE			
NO.	MARK	DIMENSION	REMARK
1	C2	500 x 500	CONCRETE COLUMN
2	B4	250 x 600	CONCRETE BEAM
3	BP-2	150 x 500	CONCRETE BEAM
3	BP-3	150 x 700	CONCRETE BEAM



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

AREA KEYPLAN



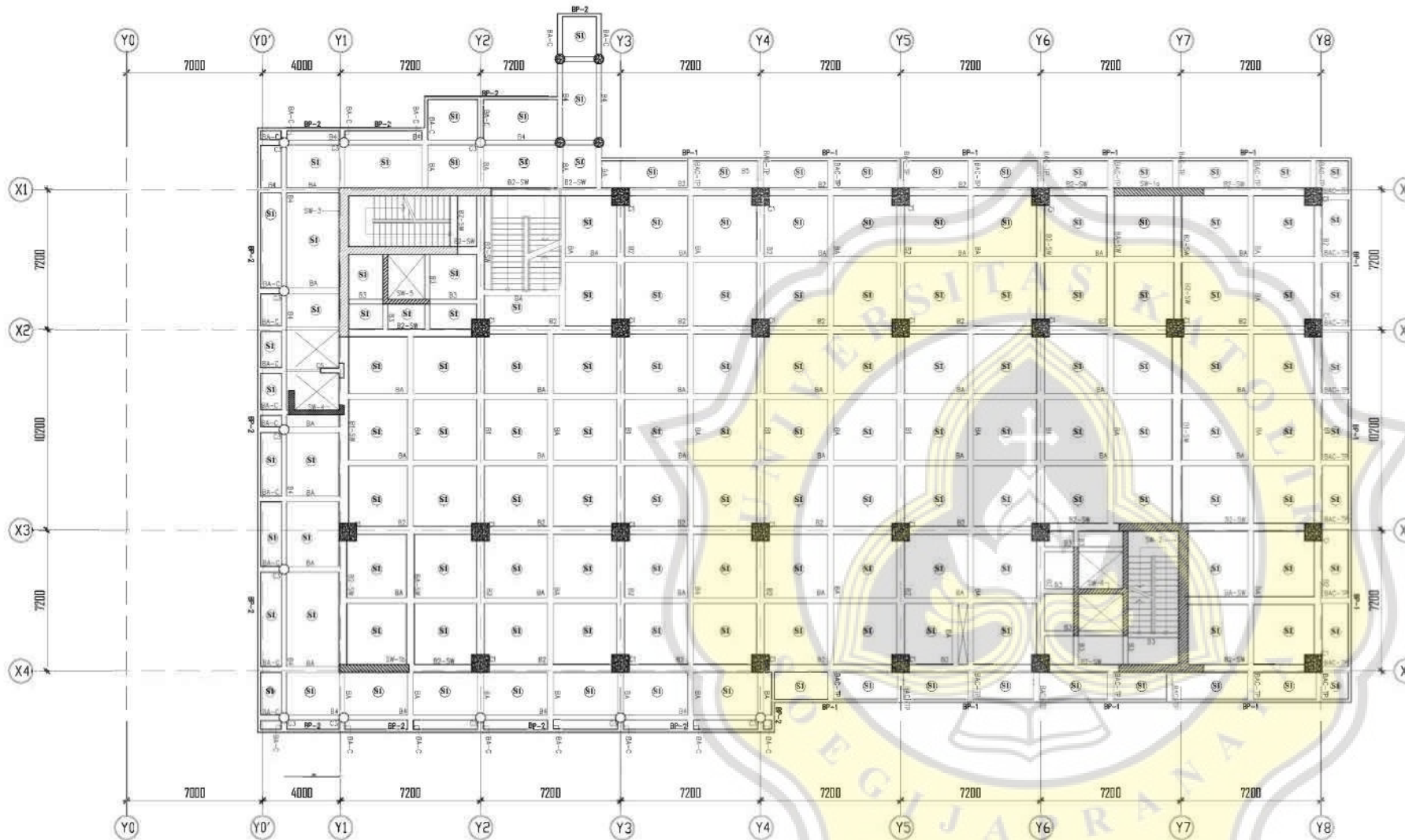
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 2ND FLOOR (TOC.+4.950)  
SCALE 1 : 150

MEMBER SCHEDULE:							
NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	800 x 800	CONCRETE COLUMN	14	BP-1	150 x 300	CONCRETE BEAM
2	C2	500 x 500	CONCRETE COLUMN	15	SI	t = 130	CONCRETE SLAB
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1A	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-1B	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-2	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-3	t = 400	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-4	t = 250	CONCRETE WALL
8	B3	250 x 700	CONCRETE BEAM	21	SW-5	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	SW-6	t = 250	CONCRETE WALL
10	BA	300 x 500	CONCRETE BEAM	23	B1-SW	500 x 800	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	B2-SW	400 x 700	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM	25	BA-SW	400 x 500	CONCRETE BEAM
				26	BP-2	150 x 500	CONCRETE BEAM

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

2ND FLOOR PLAN

SKALA

1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

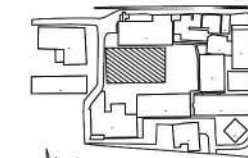
LB-19



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

3RD FLOOR PLAN

SKALA

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

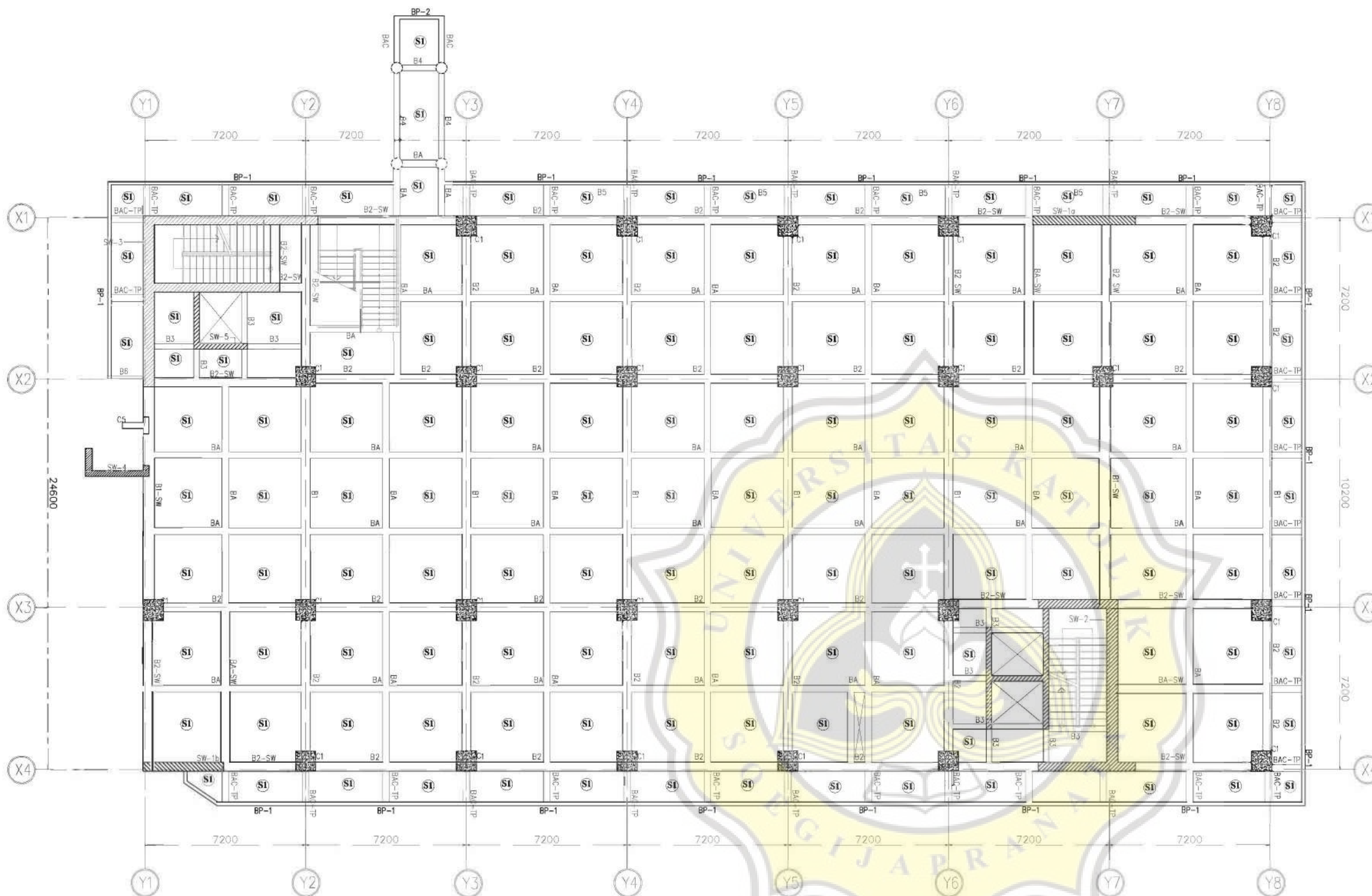
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-20



CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 3RD FLOOR (TOC.+9.450)

SCALE 1 : 100

MEMBER SCHEDULE:

NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	SI	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	BI-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

4TH FLOOR PLAN

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

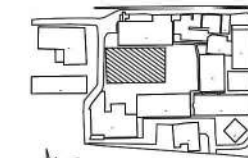
TANGGAL

CATATAN

LEMBAR

LB-21

AREA KEYPLAN



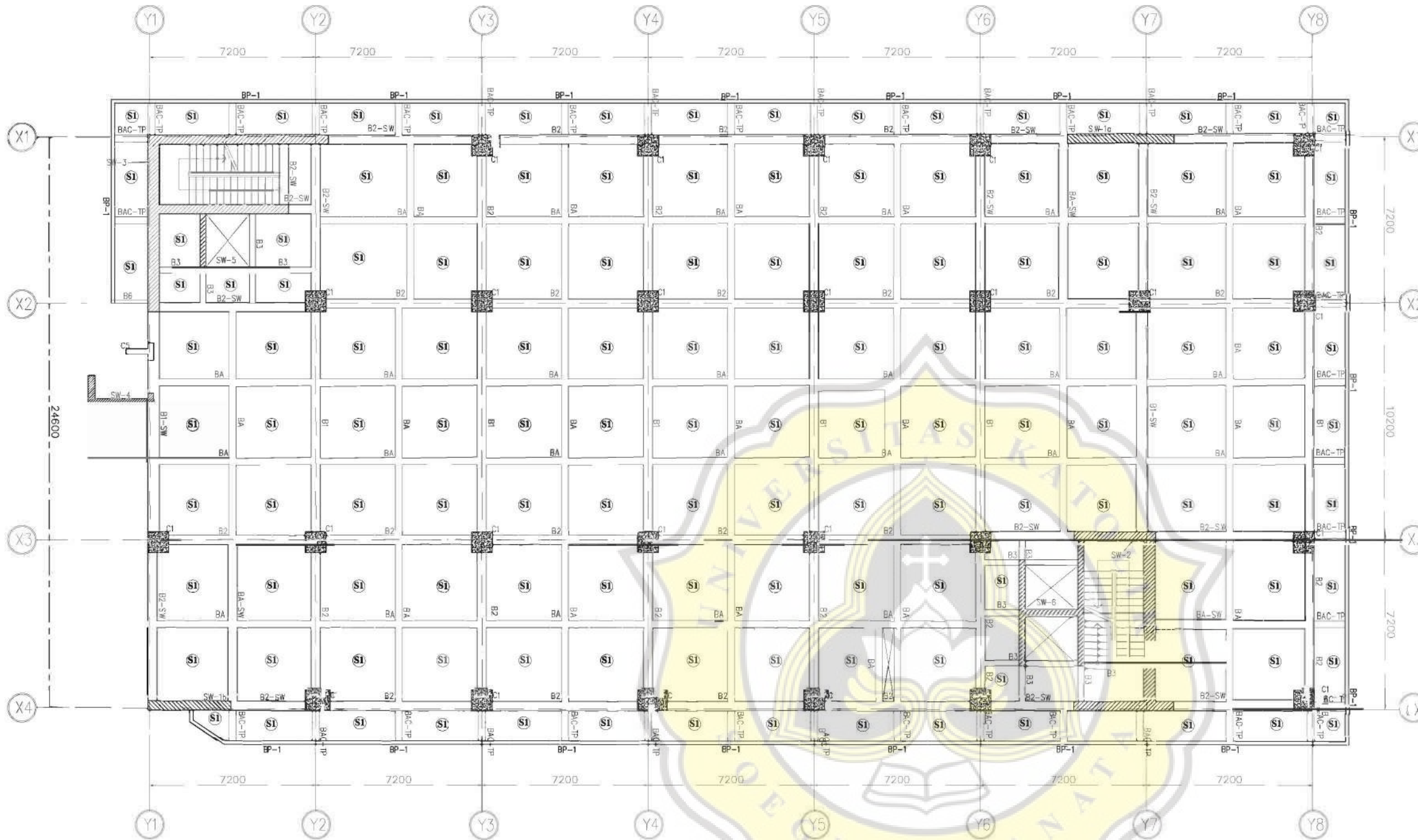
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  
fc' = 25 MPa  
- COLUMN, BEAM & SLAB fc' = 30 MPa
6. REINFORCEMENT STEEL:  
- Fy = 420 MPa  
- Fu = 560 MPa  
- Fya = 525 MPa  
- Fua = 700 MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

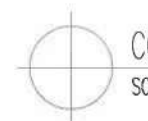
REFERENCE DRAWINGS

KEYPLAN



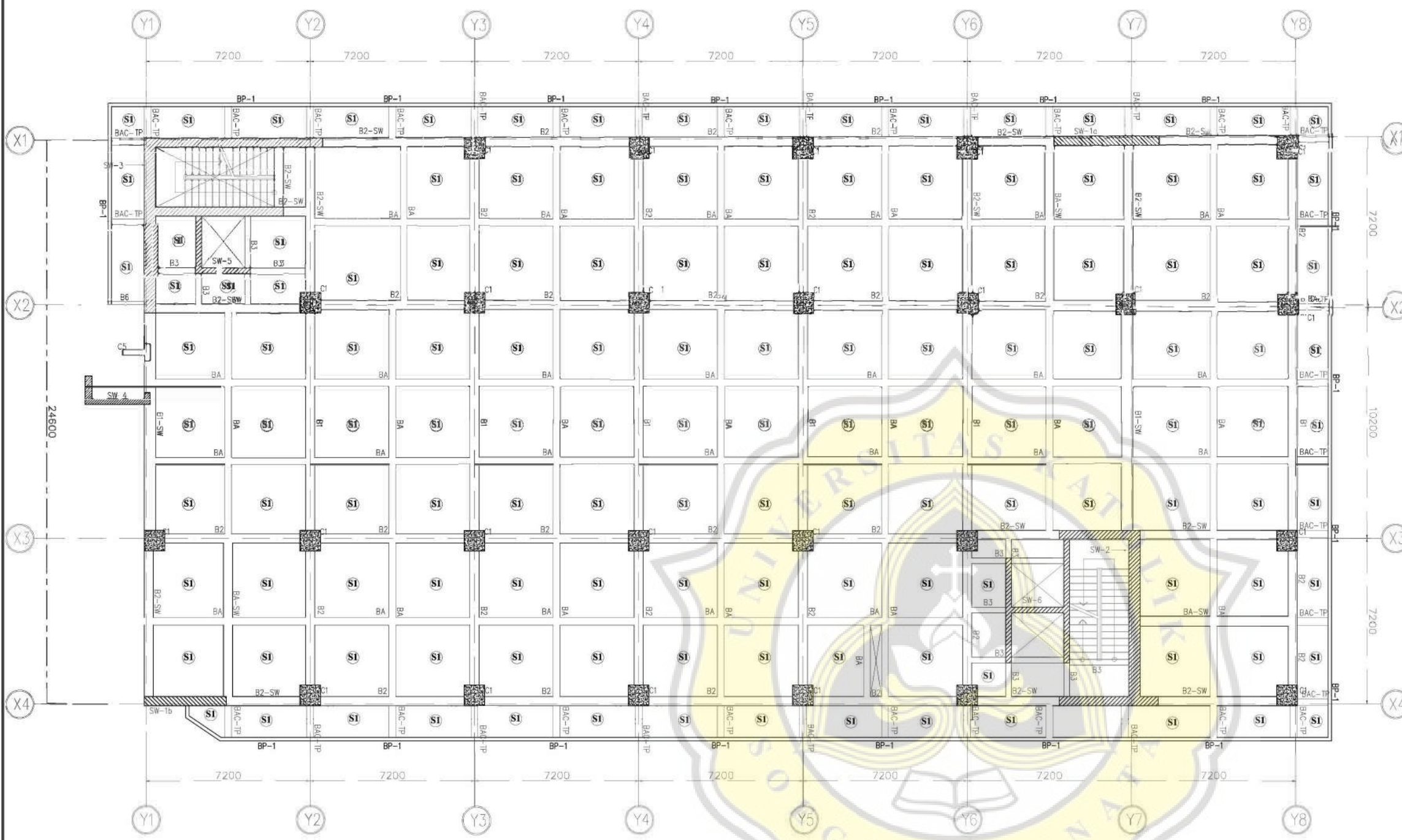
MEMBER SCHEDULE:

NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	S1	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	B1-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				

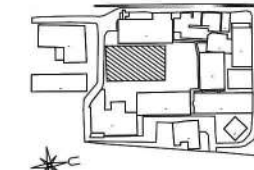


CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 4TH FLOOR (TOC.+13.950)

SCALE 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



**UNIKA SOEGIJAPRANATA**

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

**PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR	SKALA
5TH FLOOR PLAN	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

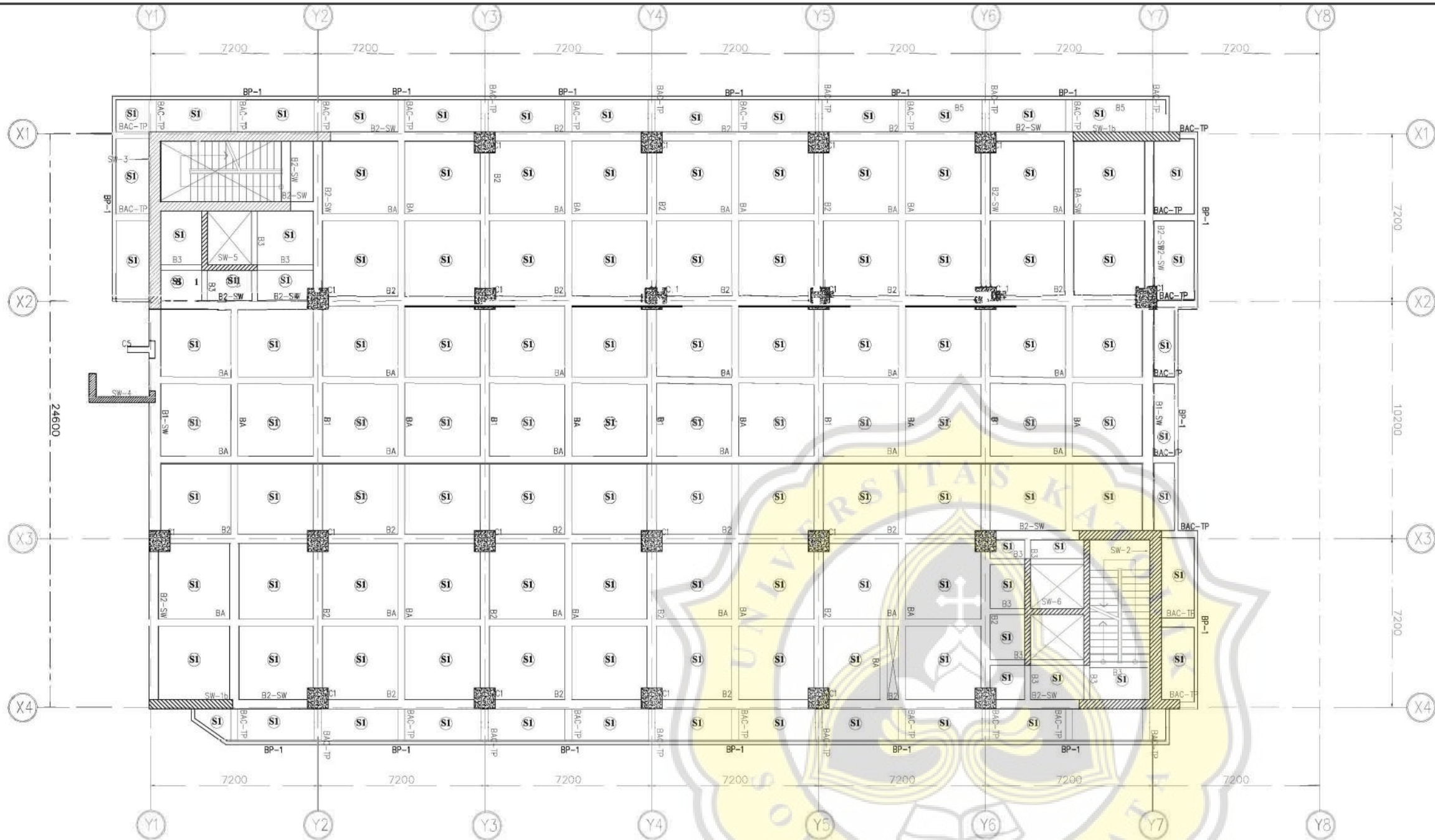
LEMBAR

LB-22

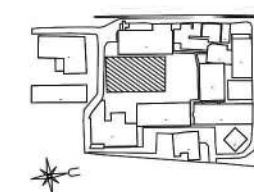
MEMBER SCHEDULE:

NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	S1	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	B1-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				

CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 5TH FLOOR (TOC.+18.450)  
SCALE 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{yk} = 525$  MPa  
-  $F_{uk} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



**UNIKA SOEGIJAPRANATA**

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

**PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR	SKALA
6TH FLOOR PLAN	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

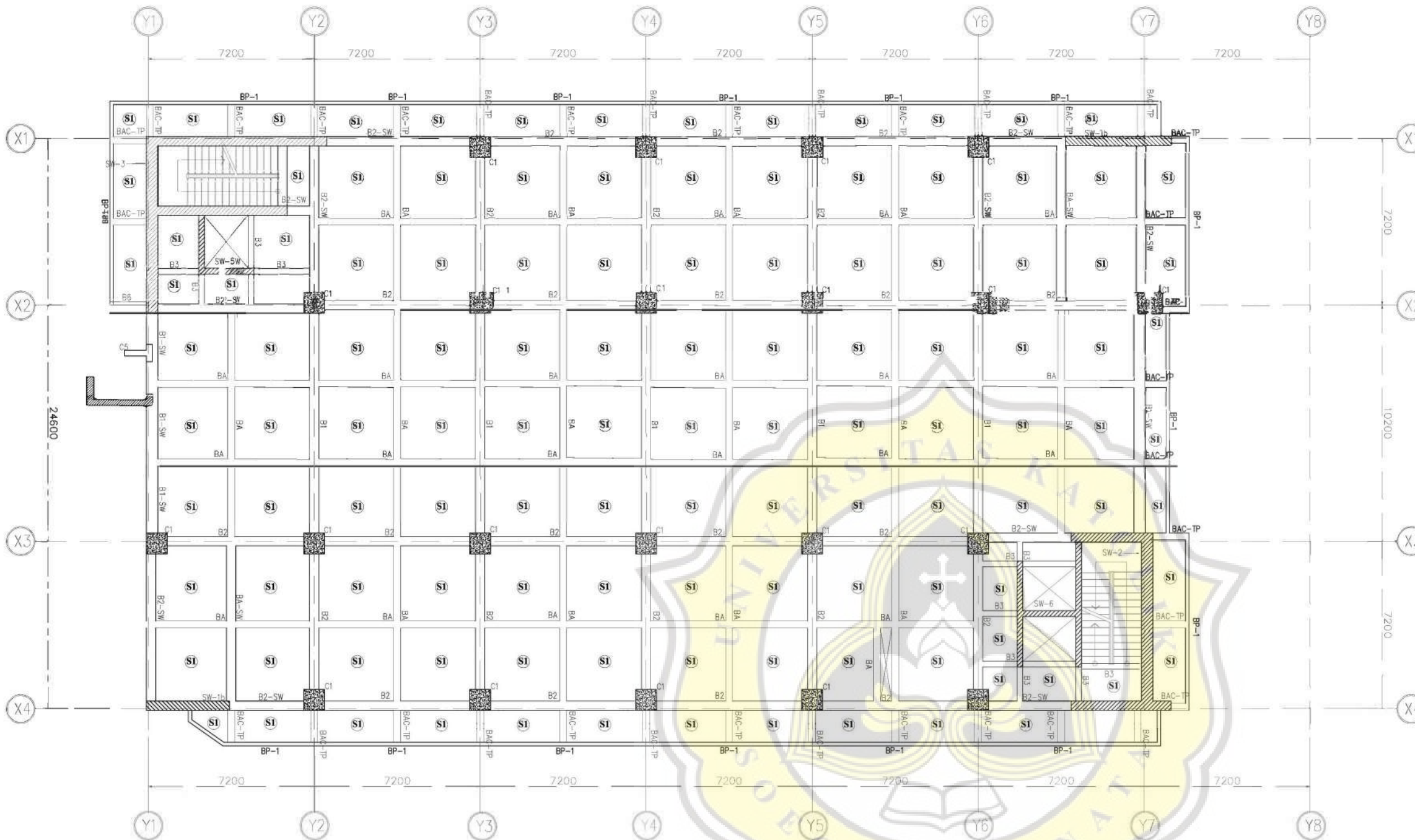
CATATAN

LEMBAR

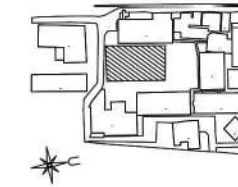
LB-23

CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 6TH FLOOR (TOC.+22.950)  
SCALE 1 : 100

MEMBER SCHEDULE:							
NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	S1	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	BI-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{yc} = 525$  MPa  
-  $F_{us} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

7TH FLOOR PLAN

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

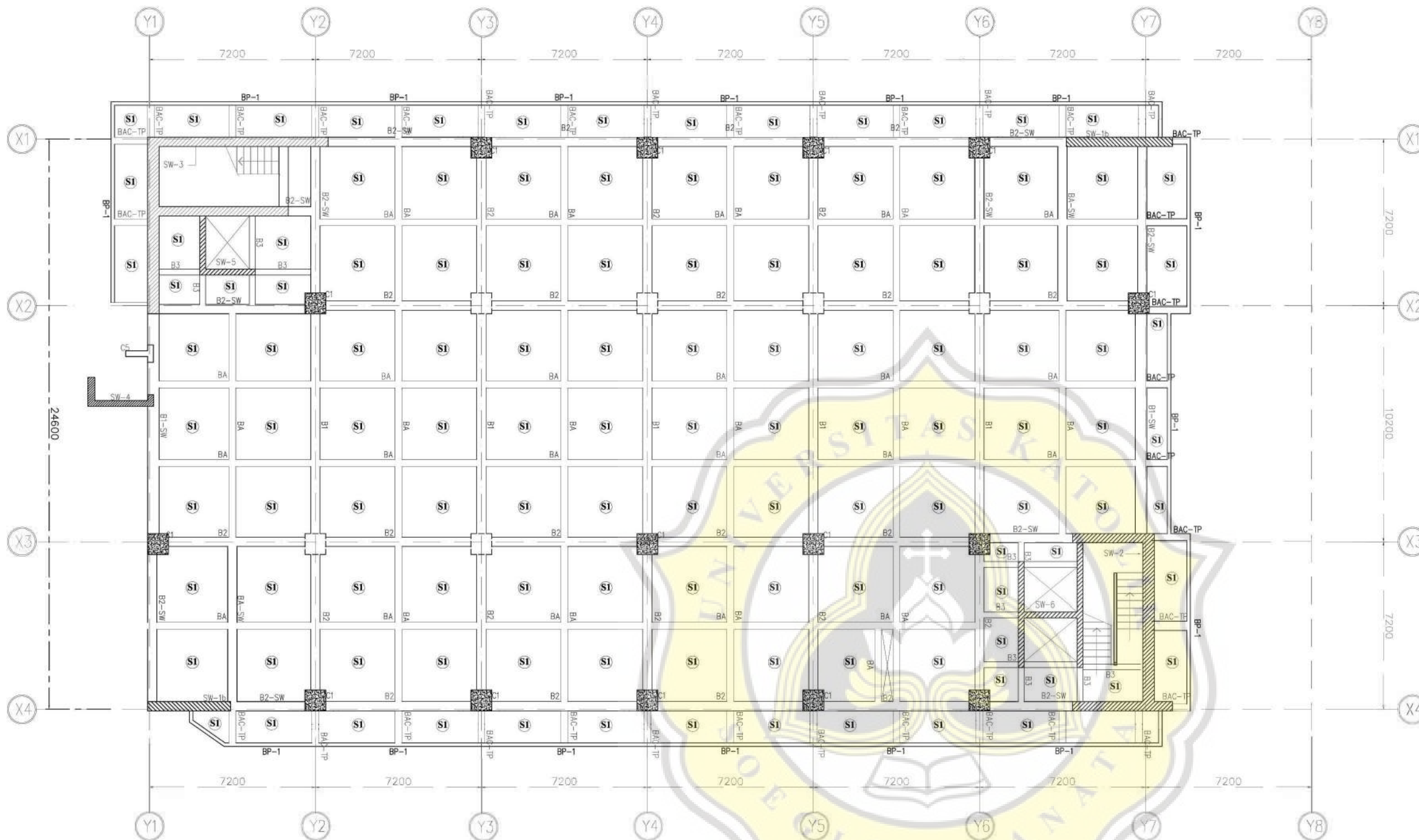
LB-24

MEMBER SCHEDULE:

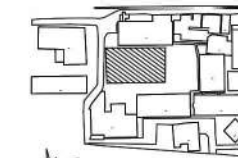
NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	SI	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	BI-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				

CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 7TH FLOOR (TOC.+27.450)

SCALE 1 : 100



AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FF±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

8TH FLOOR PLAN

1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

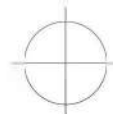
CATATAN

LEMBAR

LB-25

MEMBER SCHEDULE:

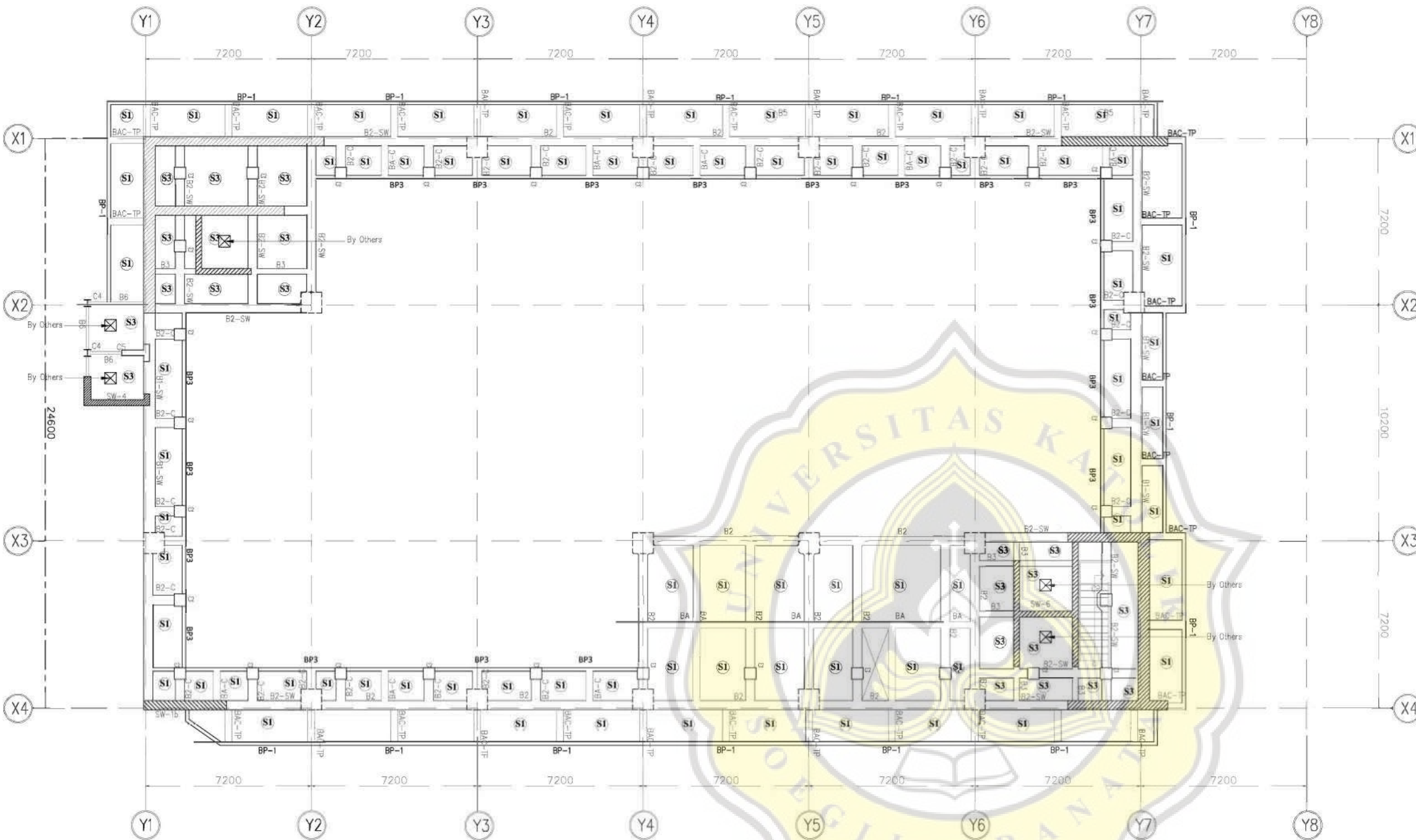
NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	S1	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	B1-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				



CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 8TH FLOOR (TOC.+31.950)

SCALE 1 : 100

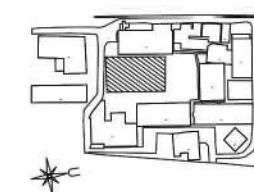




CONCRETE SLAB, SHEAR WALL, COLUMN & BEAM PLAN 9TH FLOOR (TOC.+36.45)  
SCALE 1 : 100

MEMBER SCHEDULE:							
NO.	MARK	DIMENSION	REMARK	NO.	MARK	DIMENSION	REMARK
1	C1	900 x 900	CONCRETE COLUMN	14	S1	t = 130	CONCRETE SLAB
2	C2	500 x 500	CONCRETE COLUMN	15	SW-1A	t = 400	CONCRETE WALL
3	C3	Ø 500	CONCRETE COLUMN	16	SW-1B	t = 400	CONCRETE WALL
4	C4	300 x 300	CONCRETE COLUMN	17	SW-2	t = 400	CONCRETE WALL
5	C5	750 x 1200	CONCRETE COLUMN	18	SW-3	t = 400	CONCRETE WALL
6	B1	400 x 800	CONCRETE BEAM	19	SW-4	t = 250	CONCRETE WALL
7	B2	400 x 700	CONCRETE BEAM	20	SW-5	t = 250	CONCRETE WALL
8	B3	250 x 800	CONCRETE BEAM	21	SW-6	t = 250	CONCRETE WALL
9	B4	250 x 600	CONCRETE BEAM	22	BI-SW	500 x 800	CONCRETE BEAM
10	BA	300 x 500	CONCRETE BEAM	23	B2-SW	400 x 700	CONCRETE BEAM
11	BAC-TP	250 x 500	CONCRETE BEAM	24	BA-SW	400 x 500	CONCRETE BEAM
12	BAC	300 x 500	CONCRETE BEAM				
13	BP-1	150 x 300	CONCRETE BEAM				

AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER
- UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
- TOC=0.500 ± FFL±0.000
- CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
- REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_y = 525$  MPa  
-  $F_u = 700$  MPa
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



**UNIKA SOEGIJAPRANATA**  
Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN  
**PROYEK PEMBANGUNAN GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR	SKALA
9TH FLOOR PLAN	1 : 100

DISUSUN OLEH:

LUTHFI NINDYAPRADANA	(17.B1.0044)
AMELIA PUTRI SABELA	(17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

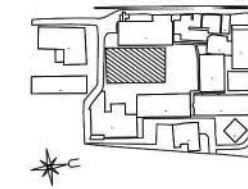
LB-26



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = -0.500 ± FFL ± 0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
RAME GRID X3	1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

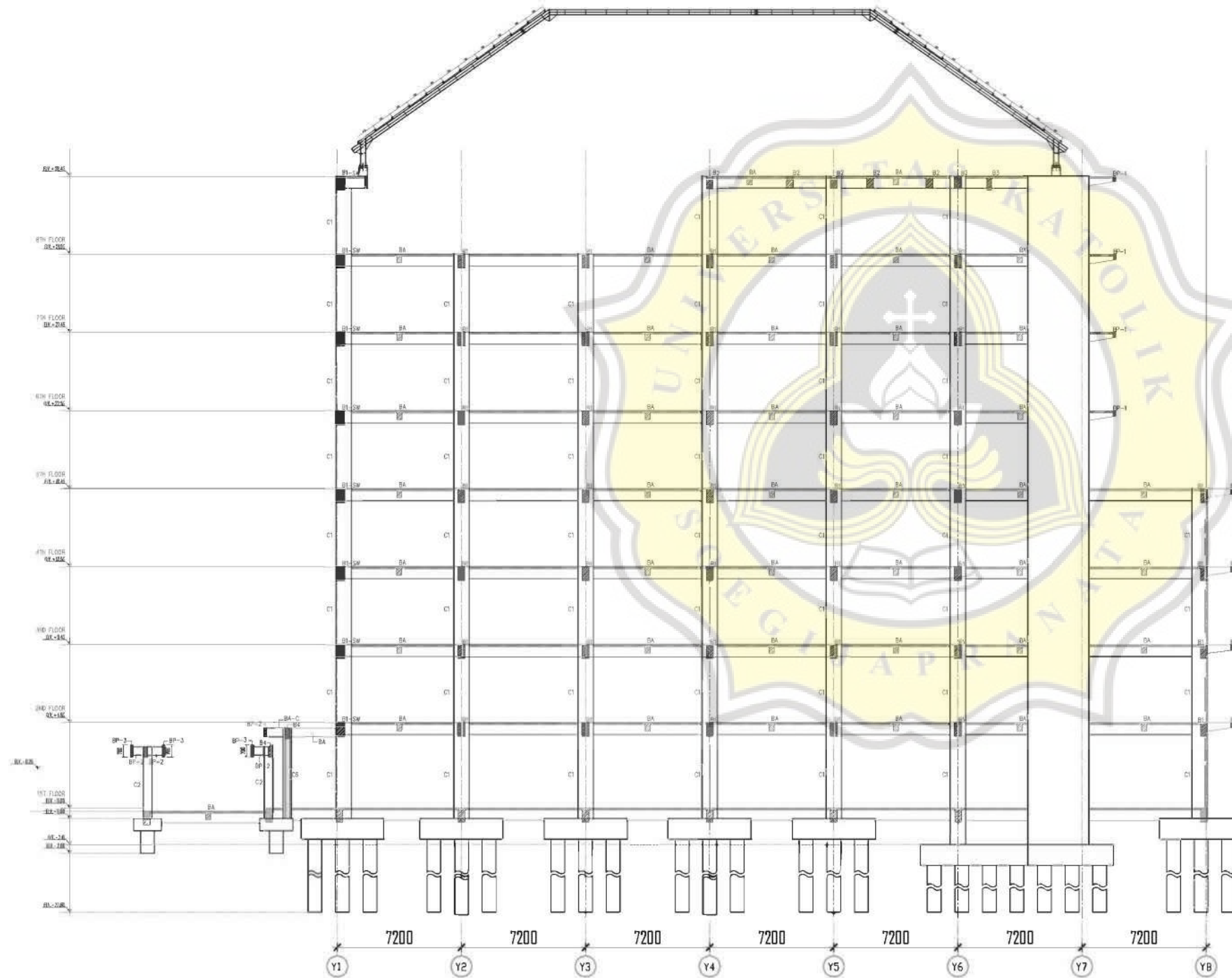
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-27



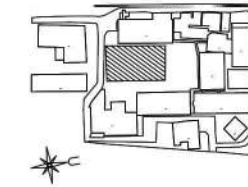
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UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

AREA KEYPLAN



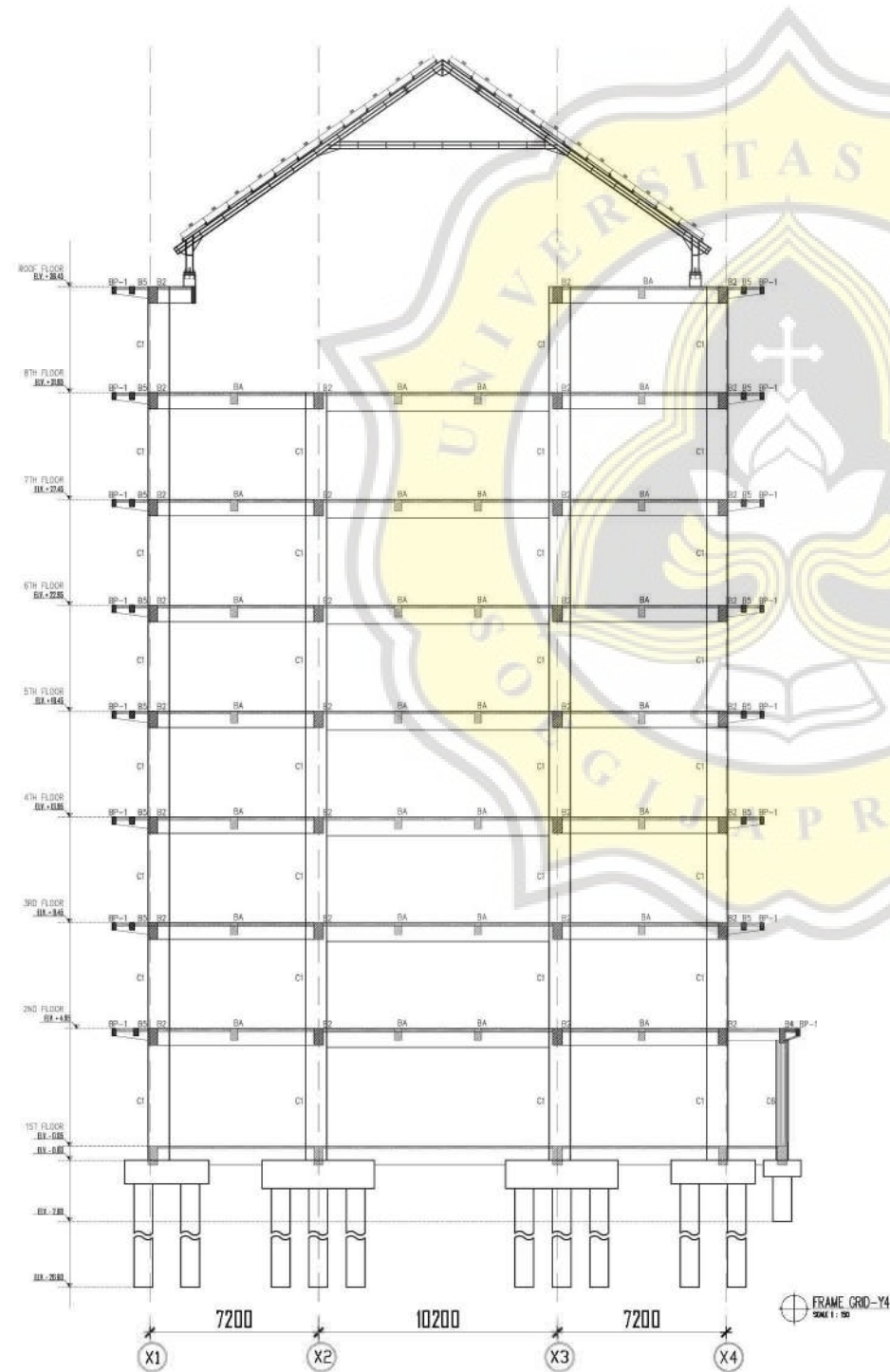
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE
3. ALL ELEVATIONS ARE IN METRE
4. TOC = -0.500 ± FF ± 0.000
5. CONCRETE QUALITY:
  - FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa
  - COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:
  - $F_y = 420$  MPa
  - $F_u = 560$  MPa
  - $F_{yA} = 525$  MPa
  - $F_{uA} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR
9. REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR

SKALA

RAME GRID Y4

1 : 150

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-28

Schedule Concrete Column

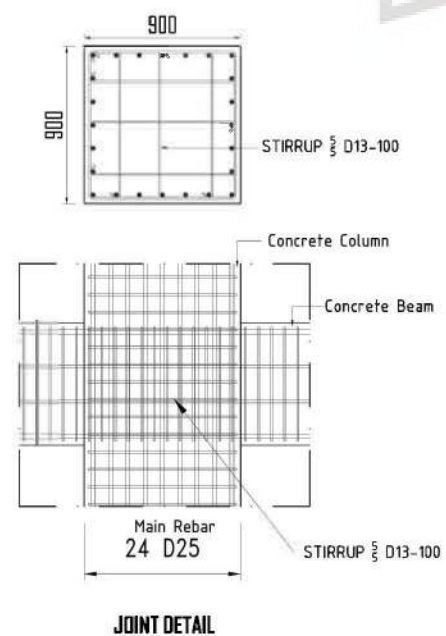
TYPE COLUMN	C1-900 x 900 mm		C2-500 x 500 mm	
	Support	Middle	Support	Middle
Main Bar	24 D25	24 D25	12 D22	12 D22
Stirrup	5 D13-100	5 D13-150	3 D10-100	3 D10-150

TYPE COLUMN	C5-750 x 1200	
	Support	Middle
Main Bar	28 D22	28 D22
Stirrup	D10-100	D10-150

TYPE COLUMN	C3-D500 mm	
	Support	Middle
Main Bar	6 D22	6 D22
Spiral	D10-100	D10-100

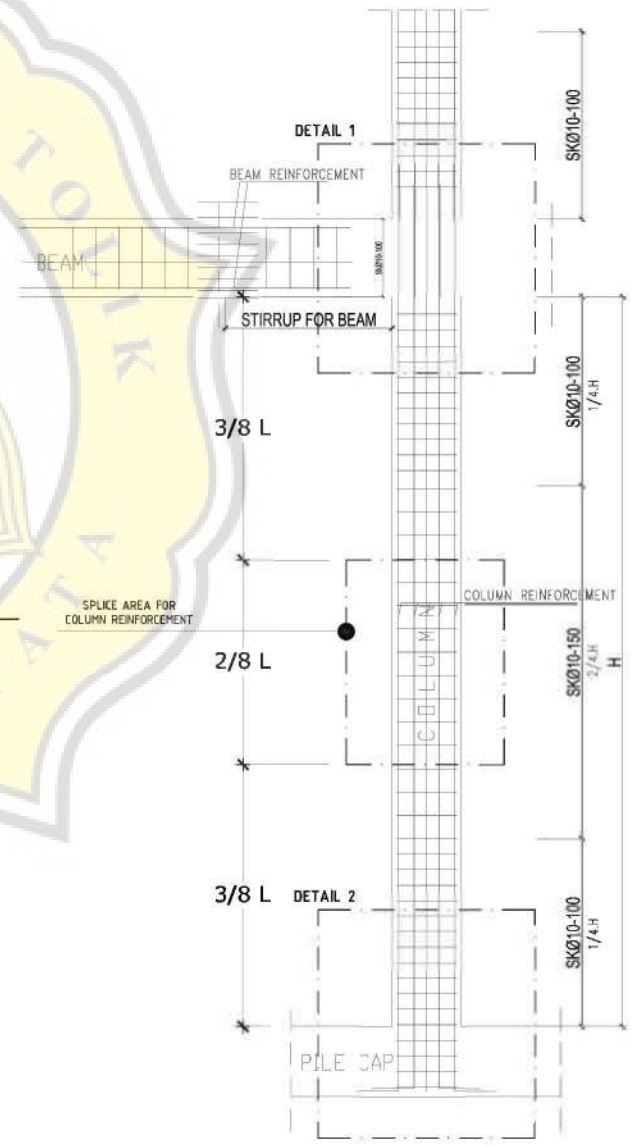
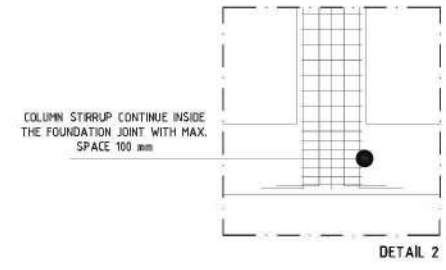
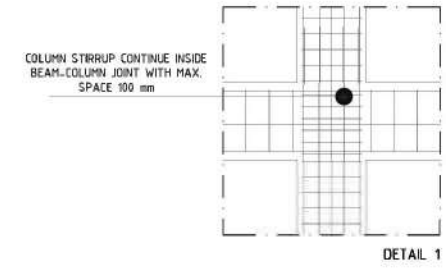
Schedule Concrete Column

TYPE COLUMN	C6-150 x 300 mm	
	Support	Middle
Main Bar	6 D13	6 D13
Stirrup	D8-100	D8-150



$L_d > 1200$  MM  
at mid span

SHEAR WALL SCHEDULE NOTATION



AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER
- UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
- TOC=0.500 ± FFL±0.000
- CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
- REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL CONCRETE COLUMN	NTS

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)	
AMELIA PUTRI SABELA (17.B1.0131)	

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

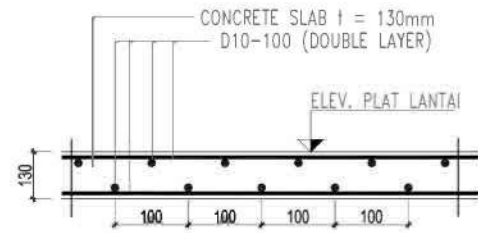
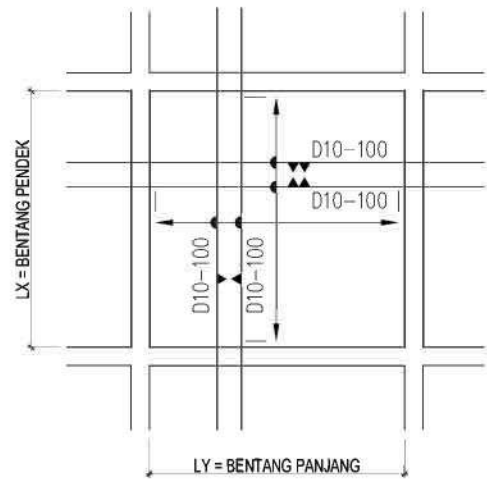
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

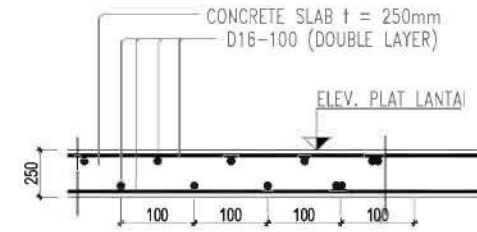
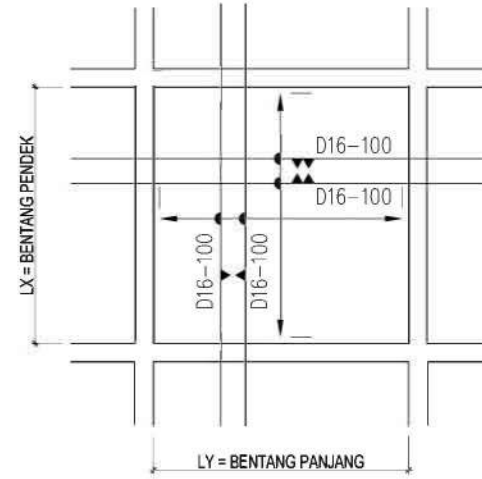
CATATAN

LEMBAR

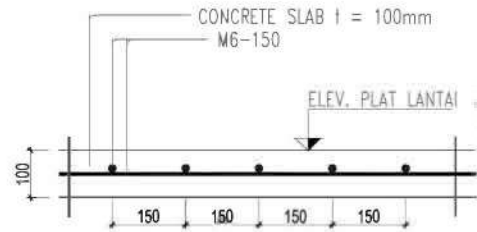
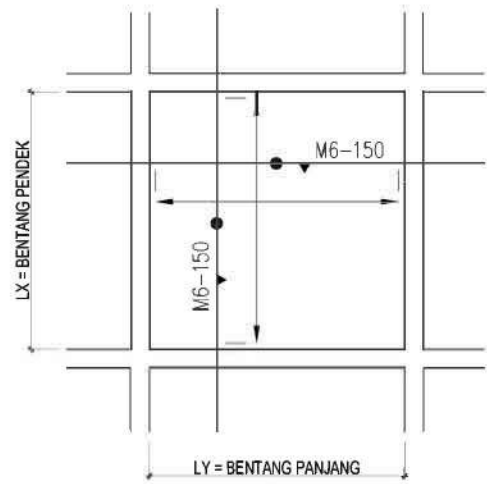
LB-29



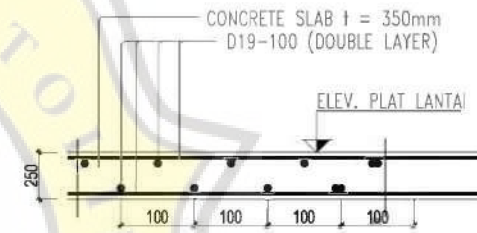
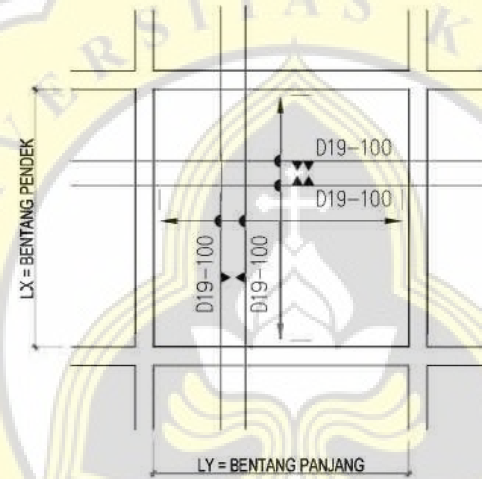
SLAB DETAIL S1 (t=130mm)  
SKALA : NTS



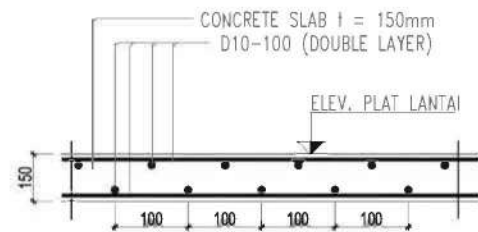
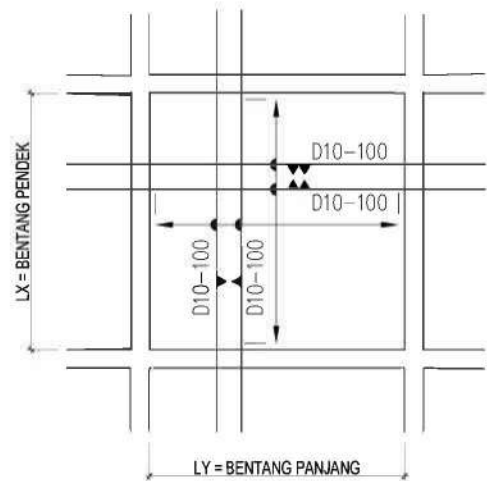
SLAB DETAIL S4 (t=300mm)  
SKALA : NTS



SLAB DETAIL S2 (t=100mm)  
SKALA : NTS

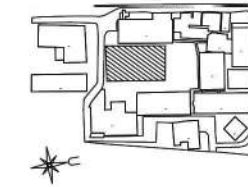


SLAB DETAIL S5 (t=350mm)  
SKALA : NTS



SLAB DETAIL S3 (t=150mm)  
SKALA : NTS

AREA KEYPLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER
2. UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
3. ALL ELEVATIONS ARE IN METRE
4. TOC=0.500 ± FFL±0.000
5. CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  $f_c' = 25$  MPa  
- COLUMN, BEAM & SLAB  $f_c' = 30$  MPa
6. REINFORCEMENT STEEL:  
-  $F_y = 420$  MPa  
-  $F_u = 560$  MPa  
-  $F_{y0} = 525$  MPa  
-  $F_{u0} = 700$  MPa
7. BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
8. ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

REFERENCE DRAWINGS

KEYPLAN



UNIKA SOEGIJAPRANATA

Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN

PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA

JUDUL GAMBAR	SKALA
DETAIL CONCRETE SLAB	NTS

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)

AMELIA PUTRI SABELA (17.B1.0131)

DOSEN PEMBIMBING 1

Dr. Hermawan, S.T., M.T.

DOSEN PEMBIMBING 2

Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-30

Schedule Concrete Tie Beam

TYPE Beam	TB-400 x 800 mm	
	Support	Middle
B x H	400 x 800	400 x 800
Top Bar	8 Ø22	8 Ø22
Side Bar	-	-
Bottom Bar	8 Ø22	8 Ø22
Stirrup	3 Ø10-100	3 Ø10-150

Schedule Concrete Beam

TYPE	B1-SW 500 x 800 mm		B2-SW 400 x 700 mm		B3-SW 400 x 600 mm		B4C	B2-C	B4C-IP	
	End	Middle	End	Middle	End	Middle	End	End	End	Edge
B x H	500 x 800	500 x 800	400 x 700	400 x 700	400 x 600	400 x 600	300 x 500	400 x 700	300 x 500	300 x 500
Top Bar	12 Ø25	6 Ø22	10 Ø25	6 Ø25	6 Ø25	4 Ø25	4 Ø22	6 Ø25	4 Ø22	4 Ø22
Side Bar	4 Ø16	4 Ø16	4 Ø16	4 Ø16	-	-	-	4 Ø16	-	-
Bottom Bar	6 Ø22	10 Ø22	6 Ø25	8 Ø25	4 Ø25	4 Ø25	2 Ø22	3 Ø25	2 Ø22	2 Ø22
Stirrup	4 Ø10-400	2 Ø10-150	4 Ø10-75	2 Ø10-150	4 Ø10-100	2 Ø10-150	2 Ø10-100	3 Ø10-75	2 Ø10-100	2 Ø10-100

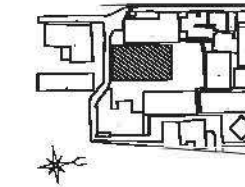
Schedule Concrete Beam

TYPE	BPI-150 x 300 mm		BP2-150 x 500 mm		BP3-150 x 700 mm		B1-400 x 800 mm		B2-400 x 700 mm		B3-250 x 700 mm	
	End	Middle	End	Middle	End	Middle	End	Middle	End	Middle	End	Middle
B x H	150 x 300	150 x 300	150 x 500	150 x 500	150 x 700	150 x 700	400 x 800	400 x 800	400 x 700	400 x 600	400 x 700	400 x 700
Top Bar	2 Ø22	2 Ø22	2 Ø22	2 Ø22	2 Ø22	2 Ø22	8 Ø25	4 Ø25	6 Ø25	3 Ø25	6 Ø25	2 Ø25
Side Bar	-	-	-	-	-	-	4 Ø16	4 Ø16	4 Ø16	4 Ø16	4 Ø16	4 Ø16
Bottom Bar	2 Ø22	2 Ø22	2 Ø22	2 Ø22	2 Ø22	2 Ø22	4 Ø25	6 Ø25	3 Ø25	6 Ø25	3 Ø25	3 Ø25
Stirrup	Ø8-Ø0	Ø8-100	Ø8-100	Ø8-100	Ø8-100	Ø8-100	3 Ø10-100	2 Ø10-150	3 Ø10-75	2 Ø10-150	3 Ø10-75	2 Ø10-150

Schedule Concrete Beam

TYPE	B4-250 x 600 mm		B5-300 x 500 mm	
	End	Middle	End	Middle
B x H	250 x 600	250 x 600	400 x 600	400 x 600
Top Bar	5 Ø22	3 Ø22	4 Ø25	2 Ø25
Side Bar	-	-	-	-
Bottom Bar	3 Ø22	4 Ø22	2 Ø25	3 Ø25
Stirrup	2 Ø10-100	2 Ø10-150	2 Ø10-100	2 Ø10-150

AREA KEYPLAN



NOTES

- ALL DIMENSIONS ARE IN MILLIMETER.
- UNLESS NOTED OTHERWISE ALL ELEVATIONS ARE IN METRE
- TOC=0.500 ± FFL±0.000
- CONCRETE QUALITY:  
- FOR BORED PILE & FOUNDATION  
f'c = 25 MPa  
- COLUMN, BEAM & SLAB f'c = 30 MPa
- REINFORCEMENT STEEL:  
- Fy = 420 MPa  
- Fu = 560 MPa  
- Fys = 525 MPa  
- Fua = 700 MPa
- BORED PILE FOUNDATION SHALL MUST DRY BORING NOT WASH BORING
- ALL DIMENSION IN THIS DRAWING HAVE TO MATCHING WITH ARCHITECT DRAWING, IF ANY DIMENSION UNCORRECT, THE CONTRACTOR REQUIRED TO CHECKED WITH CORRECT DIMENSION TO THE ARCHITECT DRAWING

LEGEND

  
**UNIKA SOEGIJAPRANATA**  
 Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur  
 Telp. 024-8441555, Semarang 50234

JUDUL PEKERJAAN  
  
**PROYEK PEMBANGUNAN  
GEDUNG X DI YOGYAKARTA**

JUDUL GAMBAR	SKALA
DETAIL CONCRETE BEAM	NTS

DISUSUN OLEH:

LUTHFI NINDYAPRADANA (17.B1.0044)  
 AMELIA PUTRI SABELA (17.B1.0131)

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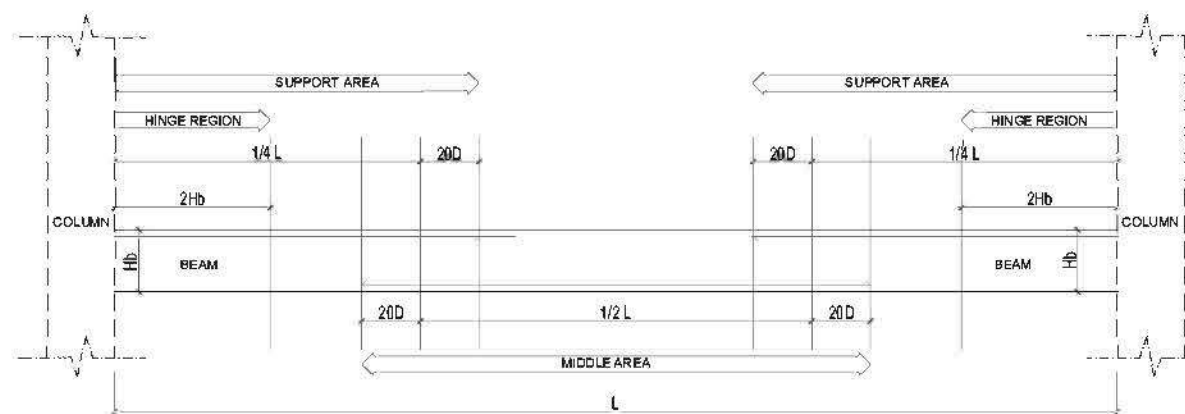
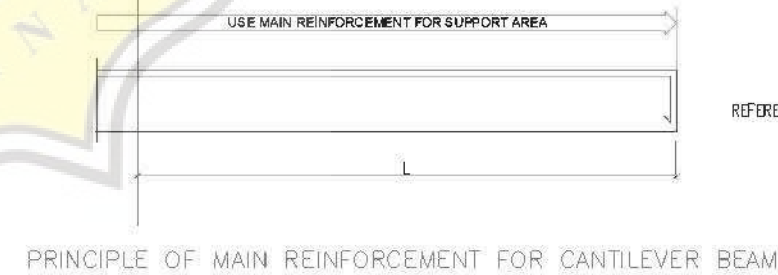
Jati Utomo D.H., S.T., M.Sc., M.M., Ph.D.

TANGGAL

CATATAN

LEMBAR

LB-31





**LC**

**HASIL *OUTPUT CUBICOST TAS***



### Output Kolom *Cubicost* TAS

Classification Condition					Quantity				
Floor	Material	Concrete Grade	Entity Type	Name	Volume(m3)	Area of formwork (m2)	Number (pc)	Weight of rebar (kg)	Girth (m)
Foundation Floor	In-situ Concrete	30.00	Curved	C3	0.143	4.041	15	21.391	23.562
				C1	3.242	24.002	25	486.259	90.000
			Vertical	C2	0.029	1.115	6	4.410	12.000
				C5	0.128	1.350	1	19.215	3.900
				SW-1a	0.525	2.860	2	78.707	6.400
				SW-1b'	0.400	2.003	2	60.028	6.400
Lantai 1+Kanopi	In-situ Concrete	30.00	Curved	C3	12.223	97.782	15	1833.414	23.562
				C1	84.038	373.500	25	12605.625	90.000
			Vertical	C2	6.225	49.800	6	933.750	12.000
				C5	1.764	16.185	1	264.563	3.900
				SW-1a	3.984	23.240	2	597.600	6.400
				SW-1b'	3.984	23.240	2	597.600	6.400
Lantai 1	In-situ Concrete	30.00	Curved	C3	2.012	16.095	15	301.823	23.562
				C1	13.568	60.300	25	2035.125	90.000
			Vertical	C5	0.301	2.909	1	45.077	3.900
				SW-1a	0.643	3.752	2	96.480	6.400
				SW-1b'	0.643	3.752	2	96.480	6.400





Classification Condition				Quantity					
Floor	Material	Concrete Grade	Entity Type	Name	Volume(m3)	Area of formwork (m2)	Number (pc)	Weight of rebar (kg)	Girth (m)
Lantai 2	In-situ Concrete	30.00	Curved	C3	3.484	27.870	4	522.645	6.283
			Vertical	C1	88.522	393.482	25	13278.262	90.000
				C5	1.912	17.452	1	286.855	3.900
				SW-1a	4.195	24.472	2	629.280	6.400
				SW-1b'	4.233	24.712	2	634.935	6.400
				SW-3A2	9.005	45.844	3	1350.732	12.600
				SW-3A2'	3.730	17.139	1	559.557	4.400
SW-3A2"	5.875	26.108	1	881.217	6.800				
Lantai 3	In-situ Concrete	30.00	Vertical	C1	88.493	393.417	25	13273.875	90.000
				C5	1.888	17.322	1	283.214	3.900
				SW-1a	4.195	24.472	2	629.280	6.400
				SW-1b'	4.195	24.524	2	629.280	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
				SW-2A2'	8.478	37.699	2	1271.670	10.400
				SW-3A2	8.916	45.802	3	1337.333	12.600
Lantai 4	In-situ Concrete	30.00	Vertical	SW-3A2'	3.715	17.106	1	557.175	4.400
				SW-3A2"	5.812	26.108	1	871.815	6.800
				C1	88.493	393.417	25	13273.875	90.000
				C5	1.888	17.322	1	283.214	3.900
				SW-1a	4.195	24.472	2	629.280	6.400
				SW-1b'	4.195	24.524	2	629.280	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
SW-2A2'	8.478	37.699	2	1271.670	10.400				
SW-3A2	8.916	45.802	3	1337.333	12.600				



Classification Condition					Quantity				
Floor	Material	Concrete Grade	Entity Type	Name	Volume(m3)	Area of formwork (m2)	Number (pc)	Weight of rebar (kg)	Girth (m)
Lantai 4	In-situ Concrete	30.00	Vertical	SW-3A2'	3.715	17.106	1	557.175	4.400
				SW-3A2"	5.812	26.108	1	871.815	6.800
Lantai 5	In-situ Concrete	30.00	Vertical	C1	74.334	330.489	21	11150.055	75.600
				C5	1.888	17.322	1	283.214	3.900
				SW-1a	4.205	24.559	2	630.800	6.400
				SW-1b'	4.195	24.524	2	629.280	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
				SW-2A2'	8.488	37.788	2	1273.228	10.400
				SW-3A2	8.916	45.802	3	1337.333	12.600
				SW-3A2'	3.715	17.106	1	557.175	4.400
Lantai 6	In-situ Concrete	30.00	Vertical	C1	74.334	330.489	21	11150.055	75.600
				C5	1.888	17.322	1	283.214	3.900
				SW-1a	4.205	24.559	2	630.800	6.400
				SW-1b'	4.195	24.524	2	629.280	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
				SW-2A2'	8.488	37.788	2	1273.228	10.400
				SW-3A2	8.916	45.802	3	1337.333	12.600
				SW-3A2'	3.715	17.106	1	557.175	4.400
				SW-3A2"	5.812	26.108	1	871.815	6.800



Classification Condition				Quantity					
Floor	Material	Concrete Grade	Entity Type	Name	Volume(m3)	Area of formwork (m2)	Number (pc)	Weight of rebar (kg)	Girth (m)
Lantai 7	In-situ Concrete	30.00	Vertical	C1	74.334	330.489	21	11150.055	75.600
				C5	1.888	17.322	1	283.214	3.900
				SW-1a	4.205	24.559	2	630.800	6.400
				SW-1b'	4.195	24.524	2	629.280	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
				SW-2A2'	8.488	37.788	2	1273.228	10.400
				SW-3A2	8.916	45.802	3	1337.333	12.600
				SW-3A2'	3.715	17.106	1	557.175	4.400
Lantai 8	In-situ Concrete	30.00	Vertical	SW-3A2''	5.812	26.108	1	871.815	6.800
				C1	49.569	221.089	14	7435.416	50.400
				C5	1.912	17.452	1	286.855	3.900
				SW-1a	4.205	24.559	2	630.800	6.400
				SW-1b'	4.209	24.712	2	631.295	6.400
				SW-2A2	4.195	23.380	2	629.280	6.400
				SW-2A2'	8.478	37.671	2	1271.738	10.400
				SW-3A2	8.877	45.270	3	1331.520	12.600
Lantai Atap	In-situ Concrete	30.00	Vertical	SW-3A2'	3.698	17.101	1	554.639	4.400
				SW-3A2''	5.786	25.699	1	867.825	6.800
Total					968.752	4708.833	429	145312.782	1416.569



### Output Shearwall Cubicost TAS

Classification Condition						Quantity								
Floor	Material	Concrete Grade	Entity Type	Thick	Name	Volum e (m3)	Area of formwork (m2)	Area (m2)	Weight of rebar (kg)	Number (pc)	Net length of wall (m)	Original thickness of wall (m)	Original height of wall (m)	Original length of wall (m)
Foundation Floor	In-situ Concrete	30.00	Vertical	250	SW-4A	0.540	3.722	2.158	16.188	3	4.115	0.750	1.800	4.115
					SW-5A	0.768	4.842	3.070	23.026	2	5.117	0.500	3.600	5.117
					SW-6A	1.830	12.249	7.319	54.895	3	12.199	0.750	5.400	12.199
				400	SW-1a	0.480	2.219	1.080	14.389	1	2.199	0.400	0.600	2.199
					SW-1b	0.288	1.200	0.720	8.637	1	1.200	0.400	0.600	1.200
					SW-2A1	1.833	7.622	4.582	54.981	2	7.636	0.800	1.200	7.636
				500	SW-3A	2.992	12.197	7.482	89.752	2	12.672	0.800	1.200	12.922
					SW-2A1'	2.106	6.621	4.213	63.182	1	7.021	0.500	0.600	7.021
					SW-3A'	2.287	7.124	4.574	68.617	1	7.624	0.500	0.600	7.624
Lantai 1+Kanopi	In-situ Concrete	30.00	Vertical	250	SW-4A	4.269	36.226	17.075	128.066	3	4.115	0.750	12.450	4.115
					SW-5A	4.894	40.187	19.575	146.810	2	4.717	0.500	8.300	4.717
					SW-6A	12.656	103.326	50.626	379.691	3	12.199	0.750	12.450	12.199
				400	SW-1a	3.651	18.254	9.127	109.525	1	2.199	0.400	4.150	2.199
					SW-1b	1.991	9.957	4.979	59.742	1	1.200	0.400	4.150	1.200
					SW-2A1	12.675	66.278	31.686	380.236	2	7.635	0.800	8.300	7.635
				500	SW-3A	21.450	109.531	53.624	643.494	2	12.922	0.800	8.300	12.922
					SW-2A1'	14.569	58.276	29.138	437.073	1	7.021	0.500	4.150	7.021
					SW-3A'	15.820	64.110	31.640	474.603	1	7.624	0.500	4.150	7.624
Classification Condition						Quantity								



Floor	Material	Concrete Grade	Entity Type	Thick	Name	Volum e (m3)	Area of formwork (m2)	Area (m2)	Weight of rebar (kg)	Number (pc)	Net length of wall (m)	Original thickness of wall (m)	Original height of wall (m)	Original length of wall (m)
Lantai 1	In-situ Concrete	30.00	Vertical	250	SW-4A	0.823	6.148	3.292	24.687	3	4.115	0.750	2.400	4.115
					SW-5A	0.943	6.787	3.773	28.301	2	4.717	0.500	1.600	4.717
					SW-6A	2.440	17.965	9.760	73.199	3	12.200	0.750	2.400	12.200
				400	SW-1a	1.088	4.555	2.719	32.630	2	3.399	0.800	1.600	3.399
					SW-2A1	2.363	10.198	5.908	70.898	2	7.385	0.800	1.600	7.385
					SW-3A	4.135	18.467	10.337	124.047	2	12.922	0.800	1.600	12.922
				500	SW-2A1'	2.888	10.436	5.777	86.655	1	7.221	0.500	0.800	7.221
SW-3A'	3.050	10.688	6.099		91.489	1	7.624	0.500	0.800	7.624				
Lantai 2	In-situ Concrete	30.00	Vertical	250	SW-4	4.629	39.212	18.516	138.867	3	4.115	0.750	13.500	4.115
					SW-5A	5.306	42.881	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	110.057	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.575	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2A1	13.753	69.081	34.381	412.577	2	7.640	0.800	9.000	7.640
				500	SW-3	12.819	62.317	32.047	384.563	2	7.122	0.800	9.000	7.122
					SW-2A1'	15.797	62.053	31.594	473.907	1	7.021	0.500	4.500	7.021
SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.823					



Classification Condition						Quantity								
Floor	Material	Concrete Grade	Entity Type	Thick	Name	Volum e (m3)	Area of formwork (m2)	Area (m2)	Weight of rebar (kg)	Number (pc)	Net length of wall (m)	Original thickness of wall (m)	Original height of wall (m)	Original length of wall (m)
Lantai 3	In-situ Concrete	30.00	Vertical	250	SW-4	4.629	39.114	18.516	138.867	3	4.115	0.750	13.500	4.115
					SW-5A	5.306	42.561	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.485	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	62.050	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	44.458	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.823
					SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114
Lantai 4	In-situ Concrete	30.00	Vertical	250	SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114
					SW-5A	5.306	42.561	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.485	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	62.050	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	44.458	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.882
					SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114



Classification Condition						Quantity								
Floor	Material	Concrete Grade	Entity Type	Thick	Name	Volum e (m3)	Area of formwork (m2)	Area (m2)	Weight of rebar (kg)	Number (pc)	Net length of wall (m)	Original thickness of wall (m)	Original height of wall (m)	Original length of wall (m)
Lantai 5	In-situ Concrete	30.00	Vertical	250	SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114
					SW-5A	5.306	42.561	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.485	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	62.050	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	44.458	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.823
					SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114
Lantai 6	In-situ Concrete	30.00	Vertical	250	SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114
					SW-5A	5.306	42.561	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.485	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	62.050	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	44.458	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.882
					SW-4	4.629	39.113	18.515	138.863	3	4.114	0.750	13.500	4.114



Classification Condition						Quantity								
Floor	Material	Concrete Grade	Entity Type	Thick	Name	Volum e (m3)	Area of formwork (m2)	Area (m2)	Weight of rebar (kg)	Number (pc)	Net length of wall (m)	Original thickness of wall (m)	Original height of wall (m)	Original length of wall (m)
Lantai 7	In-situ Concrete	30.00	Vertical	250	SW-4	4.628	39.107	18.512	138.842	3	4.114	0.750	13.500	4.114
					SW-5A	5.306	42.561	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.485	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	62.050	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	44.458	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.584	17.205	258.068	2	3.823	1.000	9.000	3.823
					SW-4	4.628	39.205	18.512	138.842	3	4.114	0.750	13.500	4.114
Lantai 8	In-situ Concrete	30.00	Vertical	250	SW-4	4.628	39.205	18.512	138.842	3	4.114	0.750	13.500	4.114
					SW-5A	5.306	42.124	21.226	159.192	2	4.717	0.500	9.000	4.717
					SW-6B	13.725	107.719	54.899	411.745	3	12.200	0.750	13.500	12.200
				400	SW-1a	3.959	19.222	9.897	118.762	1	2.199	0.400	4.500	2.199
					SW-1b	2.159	10.575	5.398	64.781	1	1.200	0.400	4.500	1.200
					SW-2a2	5.229	25.392	13.074	156.885	2	2.905	0.800	9.000	2.905
					SW-3	12.819	60.870	32.047	384.563	2	7.122	0.800	9.000	7.122
				500	SW-2a'	11.297	43.882	22.594	338.907	1	5.021	0.500	4.500	5.021
					SW-3'	8.602	33.339	17.205	258.068	2	3.823	1.000	9.000	3.835
					SW-4	4.628	39.205	18.512	138.842	3	4.114	0.750	13.500	4.114
Total						609.928	3403.408	1724.617	18297.826	167	488.837	57.500	630.300	489.215





### Output Balok *Cubicost* TAS

Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 1+Kanopi	B4	In-situ Concrete	30.00	Horizontal	6.837	66.181	54.771	11.411	15.300	45.582	1025.599	9	45.960
	BP-2	In-situ Concrete	30.00	Horizontal	1.660	25.459	22.138	3.321	37.700	22.137	249.057	29	26.161
	BP-3	In-situ Concrete	30.00	Horizontal	8.250	121.815	110.000	11.786	18.700	78.571	1237.495	11	79.392
Lantai 2	B1	In-situ Concrete	30.00	Horizontal	15.272	99.156	76.361	22.794	14.400	56.986	2290.844	6	56.986
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	34.552	25.372	9.180	5.200	18.229	922.667	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	38.956	263.184	194.840	68.342	61.600	170.856	5843.350	28	171.292
	B2-SW	In-situ Concrete	30.00	Horizontal	15.845	107.019	79.432	27.356	30.800	68.392	2376.729	14	68.652
	B3	In-situ Concrete	30.00	Horizontal	3.522	35.176	29.072	6.102	26.600	24.656	528.291	14	25.824
	B4	In-situ Concrete	30.00	Horizontal	9.244	94.375	74.612	19.463	13.600	77.515	1386.610	8	85.319
	BA	In-situ Concrete	30.00	Horizontal	37.587	353.067	251.678	101.278	121.600	337.415	5638.081	76	367.728
	BA-C	In-situ Concrete	30.00	Horizontal	2.403	25.160	17.977	6.882	38.400	20.758	360.492	24	27.218



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 2	BAC-TP	In-situ Concrete	30.00	Horizontal	4.492	45.867	29.945	11.911	41.600	39.704	673.822	26	40.292
	BA-SW	In-situ Concrete	30.00	Horizontal	2.934	22.598	14.669	7.929	7.200	19.823	440.068	4	20.669
	BP-1	In-situ Concrete	30.00	Horizontal	3.202	54.546	41.359	13.187	2.700	87.915	480.326	3	96.165
	BP-2	In-situ Concrete	30.00	Horizontal	5.107	76.661	65.478	11.183	9.100	78.428	765.996	7	79.503
Lantai 3	B1	In-situ Concrete	30.00	Horizontal	15.272	99.156	76.361	22.794	14.400	56.986	2290.844	6	56.986
	B1-SW	In-situ Concrete	30.00	Horizontal	6.419	35.469	26.289	9.180	5.200	18.229	962.921	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	38.980	263.227	194.882	68.342	61.600	170.856	5846.956	28	171.292
	B2-SW	In-situ Concrete	30.00	Horizontal	15.915	106.700	79.339	27.356	30.800	68.392	2387.298	14	68.652
	B3	In-situ Concrete	30.00	Horizontal	3.630	35.485	29.380	6.102	26.600	24.656	544.518	14	25.824
	B4	In-situ Concrete	30.00	Horizontal	1.199	11.969	9.691	2.278	5.100	9.047	179.823	3	10.537
	BA	In-situ Concrete	30.00	Horizontal	34.125	318.993	227.623	91.370	99.200	304.503	5118.710	62	331.519
	BA-C	In-situ Concrete	30.00	Horizontal	0.529	5.039	3.655	1.234	3.200	4.081	79.299	2	4.652



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 3	BAC-TP	In-situ Concrete	30.00	Horizontal	6.574	67.225	43.823	17.480	60.800	58.268	986.073	38	59.744
	BA-SW	In-situ Concrete	30.00	Horizontal	2.934	22.598	14.669	7.929	7.200	19.823	440.066	4	20.669
	BP-1	In-situ Concrete	30.00	Horizontal	4.418	78.798	59.718	19.035	6.300	126.901	662.715	7	139.030
	BP-2	In-situ Concrete	30.00	Horizontal	0.119	1.858	1.588	0.270	1.300	1.803	17.797	1	1.950
Lantai 4	B1	In-situ Concrete	30.00	Horizontal	15.272	99.156	76.361	22.794	14.400	56.986	2290.844	6	56.986
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	35.469	26.289	9.180	5.200	18.229	922.628	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	38.955	263.408	194.837	68.341	61.600	170.853	5843.248	28	171.292
	B2-SW	In-situ Concrete	30.00	Horizontal	15.590	106.203	78.850	27.351	30.800	68.376	2338.473	14	68.652
	B3	In-situ Concrete	30.00	Horizontal	3.520	34.848	28.743	6.102	26.600	24.656	528.024	14	25.824
	BA	In-situ Concrete	30.00	Horizontal	33.174	311.214	221.558	89.656	94.400	298.855	4976.166	59	324.472
	BAC-TP	In-situ Concrete	30.00	Horizontal	6.749	69.007	44.992	17.943	62.400	59.810	1012.390	39	61.405
	BA-SW	In-situ Concrete	30.00	Horizontal	2.934	22.598	14.669	7.929	7.200	19.823	440.066	4	20.669



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 4	BP-1	In-situ Concrete	30.00	Horizontal	4.509	80.028	60.658	19.335	5.400	128.901	676.396	6	141.029
Lantai 5	B1	In-situ Concrete	30.00	Horizontal	15.272	99.156	76.361	22.794	14.400	56.986	2290.844	6	56.986
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	35.469	26.289	9.180	5.200	18.229	922.628	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	38.955	263.408	194.837	68.341	61.600	170.853	5843.243	28	171.292
	B2-SW	In-situ Concrete	30.00	Horizontal	15.590	106.204	78.850	27.351	30.800	68.376	2338.481	14	68.652
	B3	In-situ Concrete	30.00	Horizontal	3.520	34.848	28.743	6.102	26.600	24.656	528.024	14	25.824
	BA	In-situ Concrete	30.00	Horizontal	33.174	311.214	221.558	89.656	94.400	298.855	4976.166	59	324.472
	BAC-TP	In-situ Concrete	30.00	Horizontal	6.749	69.007	44.992	17.943	62.400	59.810	1012.390	39	61.405
	BA-SW	In-situ Concrete	30.00	Horizontal	2.934	22.598	14.669	7.929	7.200	19.823	440.066	4	20.669
	BP-1	In-situ Concrete	30.00	Horizontal	4.509	80.028	60.658	19.335	5.400	128.901	676.396	6	141.029



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 6	B1	In-situ Concrete	30.00	Horizontal	12.727	82.630	63.635	18.995	12.000	47.488	1909.036	5	47.488
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	35.469	26.289	9.180	5.200	18.229	922.628	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	34.882	237.043	174.474	61.197	55.000	152.991	5232.359	25	153.335
	B2-SW	In-situ Concrete	30.00	Horizontal	11.858	80.997	60.191	20.804	24.200	52.009	1778.752	11	52.266
	B3	In-situ Concrete	30.00	Horizontal	3.520	34.848	28.743	6.102	26.600	24.656	528.024	14	25.824
	BA	In-situ Concrete	30.00	Horizontal	28.481	267.243	190.271	76.972	83.200	256.575	4272.203	52	278.399
	BAC-TP	In-situ Concrete	30.00	Horizontal	5.927	60.725	39.620	15.632	56.000	52.108	889.034	35	53.865
	BA-SW	In-situ Concrete	30.00	Horizontal	1.974	15.206	9.871	5.336	5.400	13.339	296.124	3	13.984
	BP-1	In-situ Concrete	30.00	Horizontal	3.986	70.799	53.661	17.102	9.000	114.015	597.837	10	124.418
Lantai 7	B1	In-situ Concrete	30.00	Horizontal	12.727	82.630	63.635	18.995	12.000	47.488	1909.036	5	47.488
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	35.469	26.289	9.180	5.200	18.229	922.628	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	34.882	237.043	174.474	61.197	55.000	152.991	5232.359	25	153.335



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 7	B2-SW	In-situ Concrete	30.00	Horizontal	11.858	80.997	60.191	20.804	24.200	52.009	1778.752	11	52.266
	B3	In-situ Concrete	30.00	Horizontal	3.520	34.848	28.743	6.102	26.600	24.656	528.024	14	25.824
	BA	In-situ Concrete	30.00	Horizontal	28.481	267.243	190.271	76.972	83.200	256.575	4272.203	52	278.399
	BAC-TP	In-situ Concrete	30.00	Horizontal	5.927	60.725	39.620	15.632	56.000	52.108	889.034	35	53.865
	BA-SW	In-situ Concrete	30.00	Horizontal	1.974	15.206	9.871	5.336	5.400	13.339	296.124	3	13.984
	BP-1	In-situ Concrete	30.00	Horizontal	3.986	70.799	53.661	17.102	9.000	114.015	597.837	10	124.418
Lantai 8	B1	In-situ Concrete	30.00	Horizontal	12.727	82.630	63.635	18.995	12.000	47.488	1909.036	5	47.488
	B1-SW	In-situ Concrete	30.00	Horizontal	6.151	35.469	26.289	9.180	5.200	18.229	922.628	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	34.882	237.043	174.474	61.197	55.000	152.991	5232.356	25	153.335
	B2-SW	In-situ Concrete	30.00	Horizontal	12.527	85.336	63.491	21.844	26.400	54.608	1878.995	12	54.873
	B3	In-situ Concrete	30.00	Horizontal	3.520	34.848	28.743	6.102	26.600	24.656	528.024	14	25.824
	BA	In-situ Concrete	30.00	Horizontal	28.481	267.243	190.271	76.972	83.200	256.575	4272.203	52	278.399



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai 8	BAC-TP	In-situ Concrete	30.00	Horizontal	5.927	60.725	39.620	15.632	56.000	52.108	889.034	35	53.865
	BA-SW	In-situ Concrete	30.00	Horizontal	1.974	15.206	9.871	5.336	5.400	13.339	296.124	3	13.984
	BP-1	In-situ Concrete	30.00	Horizontal	3.986	70.799	53.661	17.102	9.000	114.015	597.837	10	124.418
Lantai Atap	B1-SW	In-situ Concrete	30.00	Horizontal	6.419	35.804	26.289	9.180	5.200	18.229	962.921	2	18.996
	B2	In-situ Concrete	30.00	Horizontal	21.467	145.910	107.335	37.661	33.000	94.154	3220.053	15	95.383
	B2-C	In-situ Concrete	30.00	Horizontal	6.657	50.093	33.368	11.708	63.800	29.195	998.486	29	34.604
	B2-SW	In-situ Concrete	30.00	Horizontal	16.182	114.640	83.999	28.847	59.400	71.071	2427.355	27	72.877
	B3	In-situ Concrete	30.00	Horizontal	1.822	16.166	13.228	2.936	15.200	12.926	273.370	8	14.180
	BA	In-situ Concrete	30.00	Horizontal	2.429	22.917	16.306	6.611	9.600	21.885	364.393	6	24.937
	BA-C	In-situ Concrete	30.00	Horizontal	1.121	10.617	7.476	3.031	12.800	10.102	168.200	8	11.697
	BAC-TP	In-situ Concrete	30.00	Horizontal	5.944	60.835	39.626	15.632	56.000	52.108	891.601	35	53.865
	BP-1	In-situ Concrete	30.00	Horizontal	3.995	70.799	53.662	17.102	9.000	114.015	599.251	10	124.418



Classification Condition					Quantity								
Floor	Name	Material	Concrete Grade	Entity Type	Volume (m3)	Area of formwork (m2)	Area of formwork to side of beam (m2)	Area of formwork to soffit of beam (m2)	Girth of section (m)	Net length (m)	Weight of rebar (kg)	Number (pc)	Length of axis (m)
Lantai Atap	BP-3	In-situ Concrete	30.00	Horizontal	7.456	119.804	106.681	13.037	6.800	87.114	1118.413	4	88.191
Total					947.968	7821.999	5780.164	1983.513	2485	6411.111	142195.196	1402	6746.139





### Output Pelat Lantai *Cubicost* TAS

Classification Condition					Quantity						
Floor	Concrete Grade	Entity Type	Thickness	Name	Volume(m3)	Area (m2)	Area of formwork to soffit(m2)	Area of formwork to edge and break of slab(m2)	Projected area(m2)	Weight of rebar(kg)	Number (pc)
Lantai 1+Kanopi	30.00	Horizontal	100	S-2	124.587	1245.871	1237.733	2.335	1408.183	3689.648	1
			130	S-1	11.751	90.390	90.328	0.857	110.175	2230.827	1
Lantai 2	30.00	Horizontal	130	S-1	200.811	1544.705	1232.272	5.795	1544.705	38123.257	1
Lantai 3	30.00	Horizontal	130	S-1	179.027	1377.128	1098.733	1.108	1377.128	33987.486	1
Lantai 4	30.00	Horizontal	130	S-1	181.983	1399.868	1112.363	2.797	1399.868	34548.694	1
Lantai 5	30.00	Horizontal	130	S-1	181.979	1399.839	1112.363	2.797	1399.839	34547.974	1
Lantai 6	30.00	Horizontal	130	S-1	155.877	1199.054	951.399	2.797	1199.054	29592.599	1
Lantai 7	30.00	Horizontal	130	S-1	155.873	1199.024	951.399	2.797	1199.024	29591.870	1
Lantai 8	30.00	Horizontal	130	S-1	155.877	1199.054	950.942	2.459	1199.054	29592.599	1
Lantai Atap	30.00	Horizontal	130	S-1	63.391	487.627	351.730	4.803	487.627	12034.618	1
			150	S-3	7.687	51.248	34.964	0.131	51.248	1264.802	1
Total					1418.843	11193.808	9124.224	28.675	11375.904	249204.373	11



### Output Pile Cap dan Pile Cubicost TAS

Classification Condition		Quantity						
Floor	Name	Volume(m3)	Area of formwork(m2)	Area of soffit(m2)	Area of side(m2)	Area of top(m2)	Number(pc)	Weight of rebar(kg)
Foundation Floor	F-A	93.600	117.246	78.520	117.246	68.081	10	4680.000
	F-A1	331.776	272.720	246.321	272.720	230.000	12	16588.800
	F-A2	40.320	35.280	34.288	35.280	35.609	2	2016.000
	F-B	150.825	53.333	101.058	53.333	114.102	1	7541.271
	F-B1	175.349	64.656	117.473	64.656	130.104	1	8767.440
	F-C	28.672	67.280	32.707	67.280	28.284	16	1433.600
	F-D	4.312	9.230	5.155	9.230	3.584	2	215.600
Total		824.854	619.745	615.521	619.745	609.765	44	41242.711

Classification Condition		Quantity					
Floor	Name	Volume(m3)	Volume of excavating (m3)	Number(pc)	Length(m)	Area of section(m2)	Weight of rebar(kg)
Foundation Floor	F-A	28.651	28.651	30	57.000	15.080	1432.566
	F-A1	566.995	566.995	60	1128.000	30.159	28349.732
	F-A2	11.461	11.461	12	22.800	6.032	573.027
	F-B	463.046	463.046	49	921.200	24.630	23152.281
	F-B1	538.645	538.645	57	1071.600	28.651	26932.246
	F-C	10.729	10.729	18	23.400	8.253	536.450
	F-D	1.307	1.307	2	2.600	1.005	65.345
Total		1620.833	1620.833	228	3226.600	113.811	81041.646



### *Output Tie Beam Cubicost TAS*

Classification Condition						Quantity			
Floor	Material	Name	Concrete Grade	Entity Type	Section Height	Volume(m3)	Area of formwork to side(m2)	Area of formwork to soffit(m2)	Weight of rebar(kg)
Foundation Floor	In-situ Concrete	TB-1	30.00	Horizontal	800	139.107	572.492	90.820	6955.374
Total						139.107	572.492	90.820	6955.374



**LD**

**HASIL *OUTPUT CUBICOST* TRB**



### Output Shearwall Cubicost TRB

Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			10	13	16	22	25	
Foundation Floor	SW-1a	BJTD-40	66.751	144.582	0	528.743	0	740.076
	SW-1b	BJTD-40	63.238	138.959	0	291.72	0	493.917
	SW-2A1	BJTD-40	0	79.846	0	0	3997.901	4077.747
	SW-2A1'	BJTD-40	0	74.448	0	0	3891.29	3965.738
	SW-3A	BJTD-40	0	387.95	0	0	6983	7370.95
	SW-3A'	BJTD-40	0	218.166	0	0	4104.511	4322.677
	SW-4A	BJTD-40	0	286.829	0	1515.299	0	1802.128
	SW-5A	BJTD-40	0	283.437	0	1826.13	0	2109.567
	SW-6A	BJTD-40	0	580.321	0	4740.168	0	5320.489
Lantai 1+Kanopi	SW-1a	BJTD-40	154.581	292.818	0	907.505	0	1354.904
	SW-1b	BJTD-40	154.581	245.301	0	500.692	0	900.574
	SW-2A1	BJTD-40	0	372.57	0	0	6113.688	6486.258
	SW-2A1'	BJTD-40	0	347.425	0	0	5950.656	6298.081
	SW-3A	BJTD-40	0	1388.992	0	0	11242.168	12631.16
	SW-3A'	BJTD-40	0	763.013	0	0	6643.055	7406.068
	SW-4A	BJTD-40	0	1093.702	0	2603.147	0	3696.849
	SW-5A	BJTD-40	0	1132.539	0	2941.568	0	4074.107
	SW-6A	BJTD-40	0	2513.426	0	7635.56	0	10148.986



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			10	13	16	22	25	
Lantai 1	SW-1a	BJTD-40	42.158	157.73	0	0	0	199.888
	SW-1b	BJTD-40	42.158	74.946				117.104
	SW-2A1	BJTD-40	0	83.441	0	0	0	83.441
	SW-2A1'	BJTD-40	0	74.448	0	0	0	74.448
	SW-3A	BJTD-40	0	387.95	0	0	0	387.95
	SW-3A'	BJTD-40	0	216.852	0	0	0	216.852
	SW-4A	BJTD-40	0	303.188	0	0	0	303.188
	SW-5A	BJTD-40	0	322.696	0	0	0	322.696
SW-6A	BJTD-40	0	652.234	0	0	0	652.234	
Lantai 2	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2A1	BJTD-40	0	411.897	0	0	6506.769	6918.666
	SW-2A1'	BJTD-40	0	380.514	0	0	6478.265	6858.779
	SW-3	BJTD-40	256.572	0	1069.995	0	6547.673	7874.24
	SW-3'	BJTD-40	0	0	641.256	0	3546.656	4187.912
	SW-4	BJTD-40	0	1159.136	0	1471.184	0	2630.32
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			10	13	16	22	25	
Lantai 3	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2a'	BJTD-40	0	1445.853	0	0	2318.968	3764.821
	SW-2a2	BJTD-40	0	1983.694	0	0	1364.099	3347.793
	SW-3	BJTD-40	599.939	509.451	1069.995	0	6547.673	8727.058
	SW-3'	BJTD-40	222.685	913.522	641.256	0	3546.656	5324.119
	SW-4	BJTD-40	0	1159.136	0	1471.184	0	2630.32
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	
Lantai 4	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2a'	BJTD-40	0	1208.001	0	0	2318.968	3526.969
	SW-2a2	BJTD-40	0	1578.081	0	0	1364.099	2942.18
	SW-3	BJTD-40	599.939	509.451	1069.995	0	6547.673	8727.058
	SW-3'	BJTD-40	222.685	913.522	641.256	0	3546.656	5324.119
	SW-4	BJTD-40	0	1159.136	0	1471.184	0	2630.32
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			10	13	16	22	25	
Lantai 5	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2a'	BJTD-40	0	1208.001	0	0	2318.968	3526.969
	SW-2a2	BJTD-40	0	1573.075	0	0	1364.099	2937.174
	SW-3	BJTD-40	599.939	509.451	1069.995	0	6547.673	8727.058
	SW-3'	BJTD-40	222.685	913.522	641.256	0	3546.656	5324.119
	SW-4	BJTD-40	0	1159.136	0	1471.184	0	2630.32
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	
Lantai 6	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2a'	BJTD-40	0	1208.001	0	0	2318.968	3526.969
	SW-2a2	BJTD-40	0	1573.075	0	0	1364.099	2937.174
	SW-3	BJTD-40	599.939	509.451	1069.995	0	6547.673	8727.058
	SW-3'	BJTD-40	222.685	913.522	641.256	0	3546.656	5324.119
	SW-4	BJTD-40	0	1159.136	0	1471.184	0	2630.32
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	





Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			10	13	16	22	25	
Lantai 7	SW-1a	BJTD-40	168.634	362.887	0	992.194	0	1523.715
	SW-1b	BJTD-40	168.634	314.957	0	547.417	0	1031.008
	SW-2a'	BJTD-40	0	1208.001	0	0	2318.968	3526.969
	SW-2a2	BJTD-40	0	1573.075	0	0	1364.099	2937.174
	SW-3	BJTD-40	599.939	499.939	1069.995	0	6547.673	8717.546
	SW-3'	BJTD-40	222.685	906.847	641.256	0	3546.656	5317.444
	SW-4	BJTD-40	0	1158.944	0	1471.184	0	2630.128
	SW-5A	BJTD-40	0	1246.719	0	1642.252	0	2888.971
SW-6B	BJTD-40	0	2817.806	0	4208.271	0	7026.077	
Lantai 8	SW-1a	BJTD-40	168.634	306.965	0	920.494	0	1396.093
	SW-1b	BJTD-40	168.634	259.035	0	507.859	0	935.528
	SW-2a'	BJTD-40	0	1096.158	0	0	2141.191	3237.349
	SW-2a2	BJTD-40	0	1346.886	0	0	1259.524	2606.41
	SW-3	BJTD-40	599.939	285.765	1069.995	0	6023.504	7979.203
	SW-3'	BJTD-40	222.685	689.836	641.256	0	3262.731	4816.508
	SW-4	BJTD-40	0	1158.944	0	1227.455	0	2386.399
	SW-5A	BJTD-40	0	1232.434	0	1549.465	0	2781.899
SW-6B	BJTD-40	0	2817.806	0	3904.165	0	6721.971	
Total			8076.659	79670.422	11978.757	84767.878	153579.562	338073.278



### Output Balok *Cubicost* TRB

Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			8	10	16	22	25	
Lantai 1+Kanopi	B4	BJTD-40	0	736.345	0	1302.117	0	2038.462
	BP-2	BJTD-40	102.82	0	0	800.517	0	903.337
	BP-3	BJTD-40	468.327	0	0	803.933	0	1272.26
Lantai 2	B1	BJTD-40	0	2476.905	443.588	0	16425.18	19345.672
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5929.901	1469.109	0	9120.072	16519.082
	B2-SW	BJTD-40	0	1173.282	713.506	0	6251.818	8138.606
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	B4	BJTD-40	0	1261.207	0	2456.675	0	3717.882
	BA	BJTD-40	0	5237.39	0	0	12494.462	17731.852
	BA-C	BJTD-40	0	385.023	0	1172.578	0	1557.601
	BAC-TP	BJTD-40	0	654.899	0	1545.792	0	2200.691
	BA-SW	BJTD-40	0	249.609	0	0	1034.187	1283.795
	BP-1	BJTD-40	255.53	0	0	1263.604	0	1519.134
BP-2	BJTD-40	323.529	0	0	1098.072	0	1421.6	



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			8	10	16	22	25	
Lantai 3	B1	BJTD-40	0	2476.905	443.588	0	16425.18	19345.672
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5929.901	1469.109	0	9120.072	16519.082
	B2-SW	BJTD-40	0	1173.282	713.506	0	6251.818	8138.606
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	B4	BJTD-40	0	149.961	0	364.507	0	514.468
	BA	BJTD-40	0	4715.63	0	0	10918.638	15634.268
	BA-C	BJTD-40	0	71.967	0	137.953	0	209.92
	BAC-TP	BJTD-40	0	955.36	0	2255.959	0	3211.319
	BA-SW	BJTD-40	0	249.609	0	0	1034.187	1283.795
	BP-1	BJTD-40	319.983	0	0	1598.489	0	1918.473
	BP-2	BJTD-40	7.534	0	0	39.367	0	46.902
Lantai 4	B1	BJTD-40	0	2476.905	443.588	0	16425.18	19345.672
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5929.901	1469.109	0	9120.072	16519.082
	B2-SW	BJTD-40	0	1173.282	713.506	0	6251.818	8138.606
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	BA	BJTD-40	0	4625.671	0	0	10612.414	15238.085
	BAC-TP	BJTD-40	0	980.549	0	2314.944	0	3295.493
	BA-SW	BJTD-40	0	249.609	0	0	1034.187	1283.795



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			8	10	16	22	25	
Lantai 4	BP-1	BJTD-40	285.76	0	0	1426.603	0	1712.364
Lantai 5	B1	BJTD-40	0	2476.905	443.588	0	16425.18	19345.672
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5929.901	1469.109	0	9120.072	16519.082
	B2-SW	BJTD-40	0	1173.282	713.506	0	6251.818	8138.606
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	BA	BJTD-40	0	4625.671	0	0	10612.414	15238.085
	BAC-TP	BJTD-40	0	980.549	0	2314.944	0	3295.493
	BA-SW	BJTD-40	0	249.609	0	0	1034.187	1283.795
	BP-1	BJTD-40	285.76	0	0	1426.603	0	1712.364
Lantai 6	B1	BJTD-40	0	2064.087	369.657	0	15870.594	18304.338
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5310.245	1314.554	0	8159.431	14784.23
	B2-SW	BJTD-40	0	893.929	547.182	0	4801.298	6242.41
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	BA	BJTD-40	0	3959.978	0	0	9157.476	13117.453
	BAC-TP	BJTD-40	0	854.607	0	2081.756	0	2936.362
	BA-SW	BJTD-40	0	167.77	0	0	715.535	883.304
	BP-1	BJTD-40	285.19	0	0	1441.85	0	1727.04



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			8	10	16	22	25	
Lantai 7	B1	BJTD-40	0	2064.087	369.657	0	15870.594	18304.338
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5310.245	1314.554	0	8159.431	14784.23
	B2-SW	BJTD-40	0	893.929	547.182	0	4801.298	6242.41
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	BA	BJTD-40	0	3959.978	0	0	9157.476	13117.453
	BAC-TP	BJTD-40	0	854.607	0	2081.756	0	2936.362
	BA-SW	BJTD-40	0	167.77	0	0	715.535	883.304
	BP-1	BJTD-40	285.19	0	0	1441.85	0	1727.04
Lantai 8	B1	BJTD-40	0	2064.087	369.657	0	15870.594	18304.338
	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	5310.245	1314.554	0	8159.431	14784.23
	B2-SW	BJTD-40	0	939.642	571.192	0	5105.051	6615.885
	B3	BJTD-40	0	765.788	347.581	0	1865.112	2978.482
	BA	BJTD-40	0	3959.978	0	0	9157.476	13117.453
	BAC-TP	BJTD-40	0	854.607	0	2081.756	0	2936.362
	BA-SW	BJTD-40	0	167.77	0	0	715.535	883.304
	BP-1	BJTD-40	285.19	0	0	1441.85	0	1727.04



Classification Condition			Rebar Weight (kg)					Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)					
			8	10	16	22	25	
Lantai Atap	B1-SW	BJTD-40	0	354.881	193.139	778.349	859.873	2186.242
	B2	BJTD-40	0	3113.515	797.951	0	5096.236	9007.702
	B2-C	BJTD-40	0	2088.15	233.556	0	2305.768	4627.474
	B2-SW	BJTD-40	0	1216.455	712.83	0	8145.754	10075.038
	B3	BJTD-40	0	418.689	237.133	0	1044.86	1700.682
	BA	BJTD-40	0	350.839	0	0	871.853	1222.692
	BA-C	BJTD-40	0	185.315	0	436.708	0	622.023
	BAC-TP	BJTD-40	0	854.607	0	2081.756	0	2936.362
	BP-1	BJTD-40	285.19	0	0	1441.85	0	1727.04
	BP-3	BJTD-40	522.434	0	0	1177.983	0	1700.417
Total			3712.438	120923.7	23182.651	44258.561	329778.948	521856.298



### Output Pelat Lantai *Cubicost* TRB

Classification Condition				Rebar Weight (kg)		Summary (kg)
Floor	Name	Rebar Classification	Rebar Strength	Rebar Diameter (mm)		
				6	10	
Lantai 1+Kanopi	S-1 1# slab	Main bar	BJTD-40	0	2739.247	2739.247
	S-2 2# slab	Main bar	BJTD-40	4301.253	0	4301.253
Lantai 2	S-1 1# slab	Main bar	BJTD-40	0	36242.678	36242.678
Lantai 3	S-1 1# slab	Main bar	BJTD-40	0	32615.104	32615.104
Lantai 4	S-1 1# slab	Main bar	BJTD-40	0	32954.861	32954.861
Lantai 5	S-1 1# slab	Main bar	BJTD-40	0	32954.503	32954.503
Lantai 6	S-1 1# slab	Main bar	BJTD-40	0	28252.534	28252.534
Lantai 7	S-1 1# slab	Main bar	BJTD-40	0	28252.534	28252.534
Lantai 8	S-1 1# slab	Main bar	BJTD-40	0	28253.028	28253.028
Lantai Atap	S-1 2# slab	Main bar	BJTD-40	0	11367.83	11367.83
	S-3 1# slab	Main bar	BJTD-40	0	1207.515	1207.515
Total				4301.253	234839.834	239141.087



### Output Kolom *Cubicost* TRB

Classification Condition			Rebar Weight (kg)				Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)				
			10	13	22	25	
Foundation Floor	C1	BJTD-40	0	5656.34	0	10996.541	16652.881
	C2	BJTD-40	68.783	0	837.895	0	906.679
	C3	BJTD-40	243.962	0	1141.428	0	1385.39
	C5	BJTD-40	28.481	0	394.128	0	422.609
Lantai 1+Kanopi	C1	BJTD-40	0	13053.093	0	9645.398	22698.491
	C2	BJTD-40	199.471	0	694.352	0	893.824
	C3	BJTD-40	521.815	0	1052.923	0	1574.739
	C5	BJTD-40	62.658	0	327.576	0	390.234
Lantai 1	C1	BJTD-40	0	2623.05	0	7796.832	10419.882
	C3	BJTD-40	120.021	0	442.955	0	562.976
	C5	BJTD-40	11.392	0	272.98	0	284.372
Lantai 2	C1	BJTD-40	0	14296.245	0	13640.986	27937.23
	C3	BJTD-40	154.117	0	242.798	0	396.914
	C5	BJTD-40	68.354	0	478.99	0	547.344
Lantai 3	C1	BJTD-40	0	14296.245	0	13640.986	27937.23
	C5	BJTD-40	68.354	0	478.99	0	547.344





Classification Condition			Rebar Weight (kg)				Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)				
			10	13	22	25	
Lantai 4	C1	BJTD-40	0	14296.245	0	12784.769	27081.013
	C5	BJTD-40	68.354	0	478.99	0	547.344
Lantai 5	C1	BJTD-40	0	12008.845	0	11458.428	23467.273
	C5	BJTD-40	68.354	0	478.99	0	547.344
Lantai 6	C1	BJTD-40	0	12008.845	0	11458.428	23467.273
	C5	BJTD-40	68.354	0	478.99	0	547.344
Lantai 7	C1	BJTD-40	0	12008.845	0	10021.127	22029.972
	C5	BJTD-40	68.354	0	478.99	0	547.344
Lantai 8	C1	BJTD-40	0	7993.465	0	4588.054	12581.519
	C5	BJTD-40	68.354	0	291.625	0	359.978
Lantai Atap	CP	BJTD-40	1145.665	0	5018.773	0	6164.439
Total			3034.841	108241.219	13591.376	106031.548	230898.983



### Output Pile Cap dan Pile Cubicost TRB

Classification Condition			Rebar Weight (kg)		Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)		
			16	22	
Foundation Floor	F-A	BJTD-40	3341.147	7179.747	10520.894
	F-A1	BJTD-40	9290.097	23941.509	33231.606
	F-A2	BJTD-40	1362.491	3374.897	4737.388
	F-B	BJTD-40	5440.114	4970.069	10410.182
	F-B1	BJTD-40	6456.119	5709.641	12165.76
	F-C	BJTD-40	1540.26	4219.576	5759.836
	F-D	BJTD-40	233.031	624.432	857.463
Total			27663.258	50019.872	77683.129

Classification Condition			Rebar Weight (kg)		Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)		
			13	16	
Foundation Floor	F-A	BJTD-40	145.342	90.06	235.402
	F-A1	BJTD-40	1348.286	1782.24	3130.526
	F-A2	BJTD-40	58.137	36.024	94.161
	F-B	BJTD-40	237.392	147.098	384.49
	F-B1	BJTD-40	1280.872	1693.128	2974
	F-C	BJTD-40	75.941	36.972	112.913
	F-D	BJTD-40	8.438	4.108	12.546
Total			3154.407	3789.63	6944.037



### *Output Tie Beam Cubicost TRB*

Classification Condition			Rebar Weight (kg)		Summary (kg)
Floor	Name	Rebar Strength	Rebar Diameter (mm)		
			10	22	
Foundation Floor	TB-1	BJTD-40	58931.666	41588.076	100519.742
Total			58931.666	41588.076	100519.742



**8.6%** PLAGIARISM  
APPROXIMATELY

## Report #14393439

BAB 1 PENDAHULUAN Latar Belakang Sektor konstruksi secara signifikan berkontribusi terhadap Produk Domestik Bruto (PDB) di setiap negara (International Labour Organization, 2019). Produk Domestik Bruto (PDB) merupakan indikator penting untuk mengetahui laju aktivitas ekonomi suatu negara (The Organisation for Economic Co-operation and Development, 2021). Menurut McKinsey and Company (2020), pengeluaran sektor konstruksi menyumbang sebesar 13% dari Produk Domestik Bruto (PDB) secara global. Sektor konstruksi memiliki kontribusi sebesar 10,7% terhadap PDB di Indonesia pada triwulan 1 tahun 2020 (Badan Pusat Statistik, 2020). Berdasarkan peringkat global industri konstruksi, Indonesia akan menjadi pasar konstruksi terbesar ke-4 di dunia pada tahun 2030 (Global Construction Perspectives dan Oxford Economics, 2015). Peringkat ini meningkat dari yang sebelumnya berada di urutan ke-11, mendahului Jepang yang berada pada peringkat ke-5. Selain Indonesia, industri konstruksi Jerman juga mengalami kemajuan dibuktikan dengan dengan indeks volume