



JABATAN PENGAIRAN DAN SALIRAN  
SEBERANG PERAI UTARA, PULAU PINANG

NOTE:

PROJEK / PROJECT  
 PROJEK PEMBINAAN JETI Pendaratan Kerang  
 DAN KERJA-KERJA BERKAITAN DI SUNGAI  
 ABDUL / SUNGAI LAHAR ENDIN, DAERAH  
 SEBERANG PERAI UTARA, PULAU PINANG

UNTUK TETUAN : BAHAGIAN PERANCANGAN EKONOMI  
 NEGERI, PULAU PINANG.

TAJUK / TITLE  
 ARKITEK  
 PELAN ARKITEKTUR

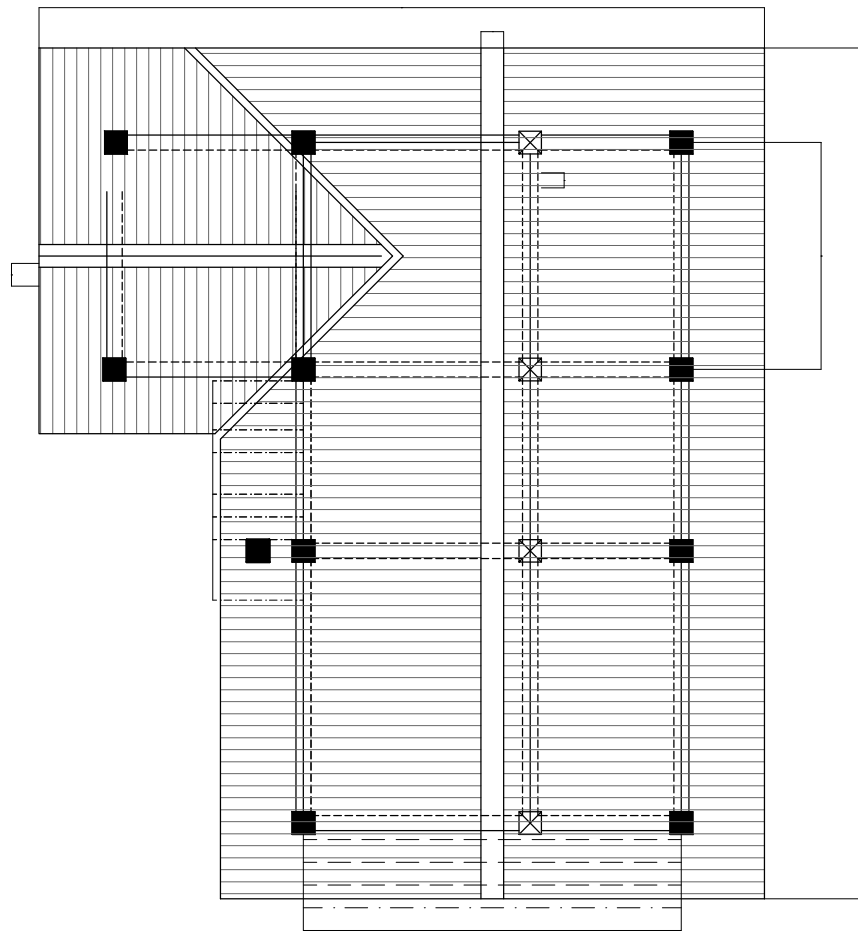
TANDATANGAN PEMILIK BANGUNAN / TUAN TANAH

JURUTERA AWAM & STRUKTUR / CIVIL & STRUCTURAL ENGINEERS

TANDATANGAN JURUTERA / ENGINEER'S SIGNATURE

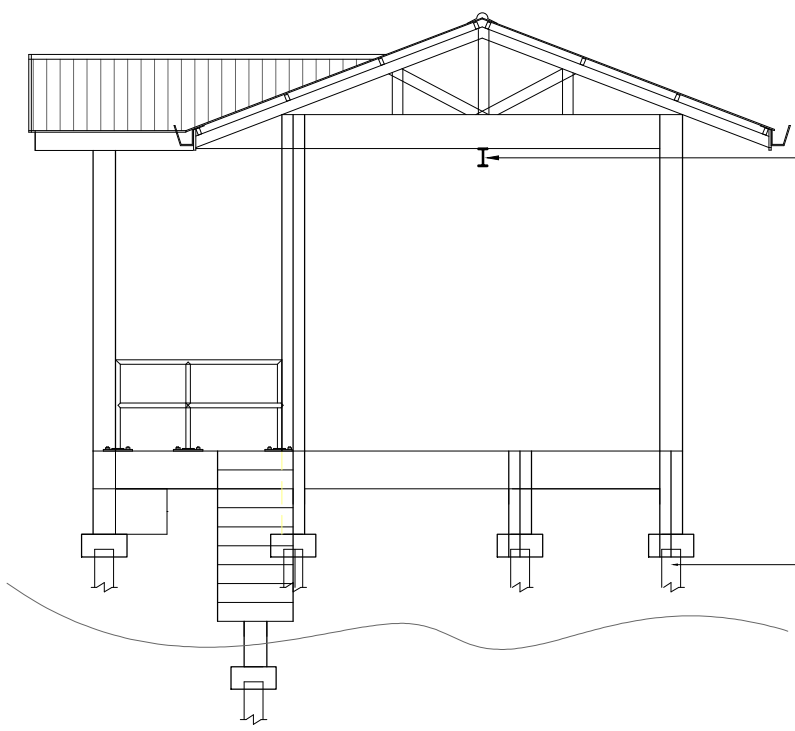
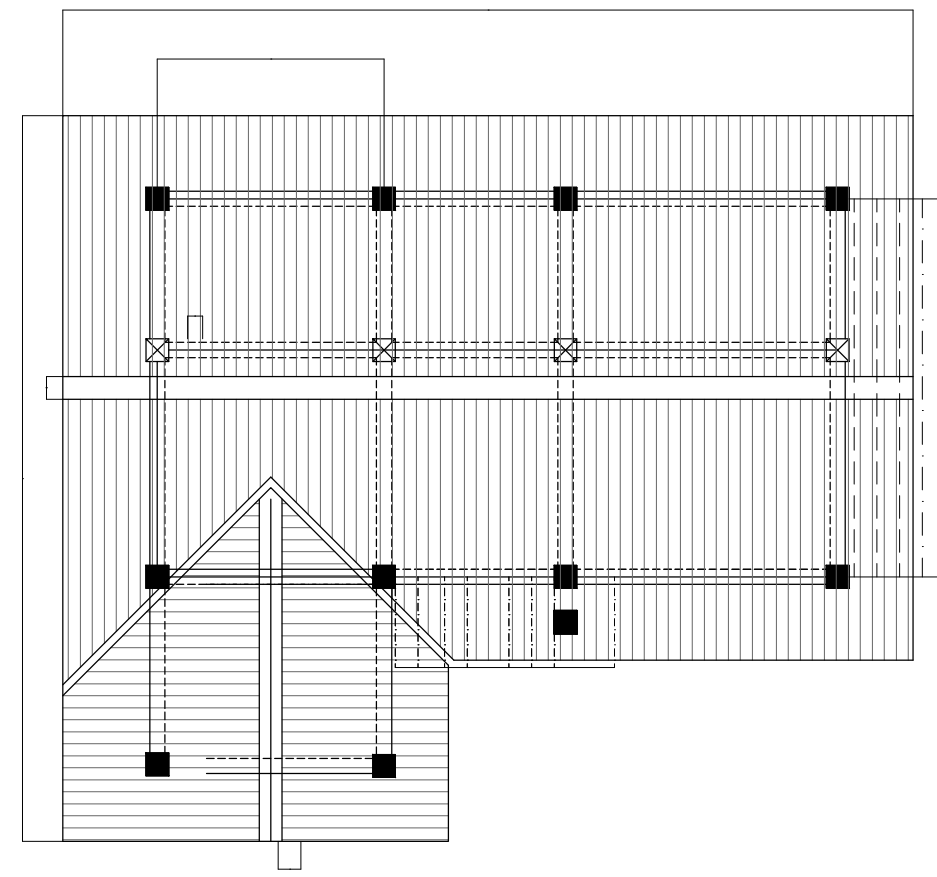
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DRAWN BY	DIN	DWG CHK'D BY	Ir. ADHAR
SCALE	1:50	DATE	JUN. 2021
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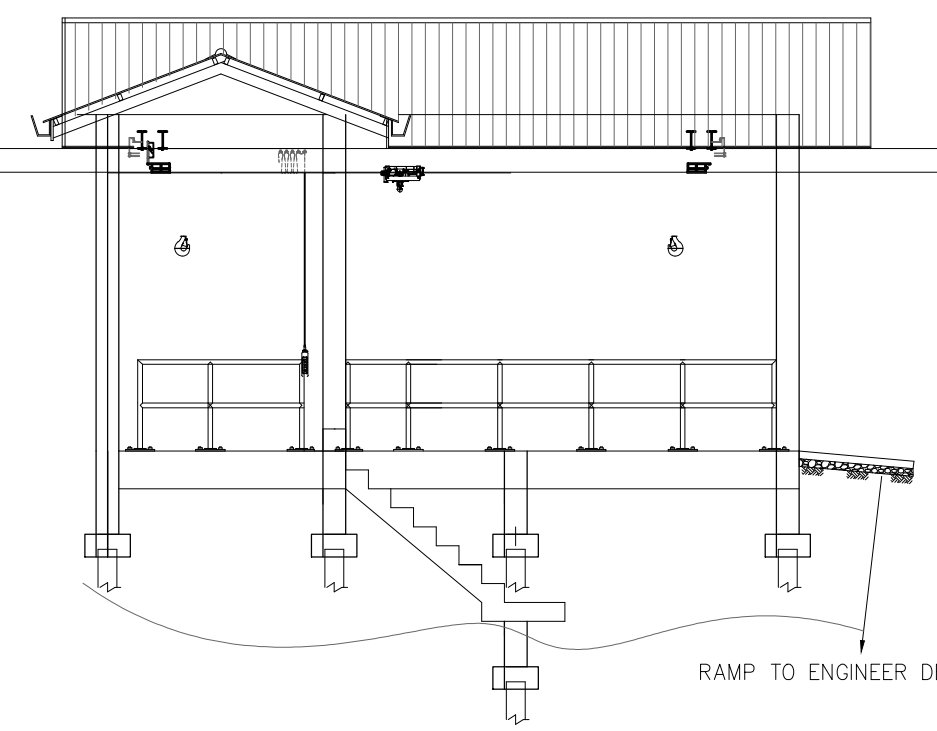
ROOFING :  
 -METAL ROOF CLADDING TO APPROVED BY S.O  
 -STEEL TRUSSES TO APPROVED BY S.O

ROOFING :  
 -G.I HAND RAIL TO APPROVED BY S.O

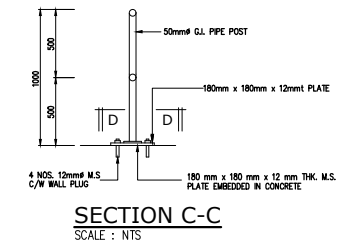
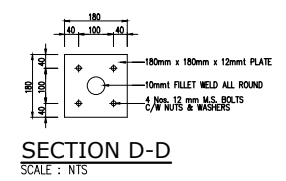
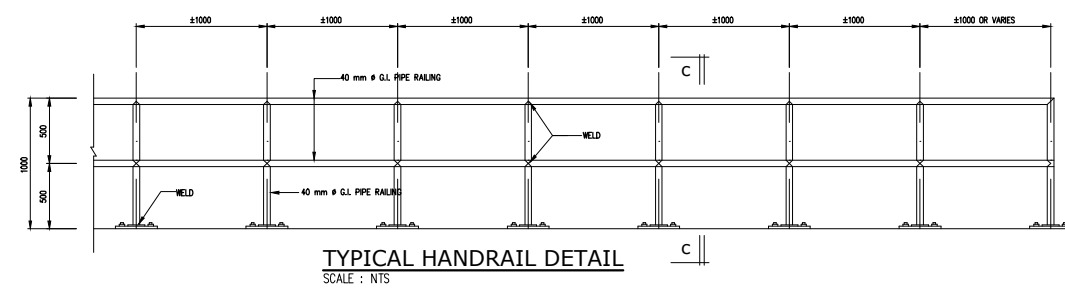
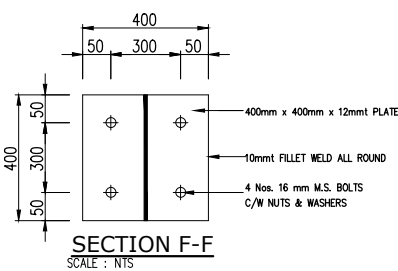
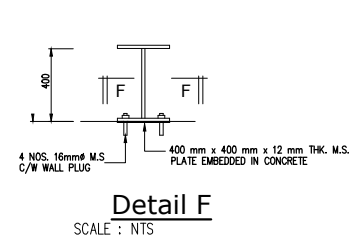


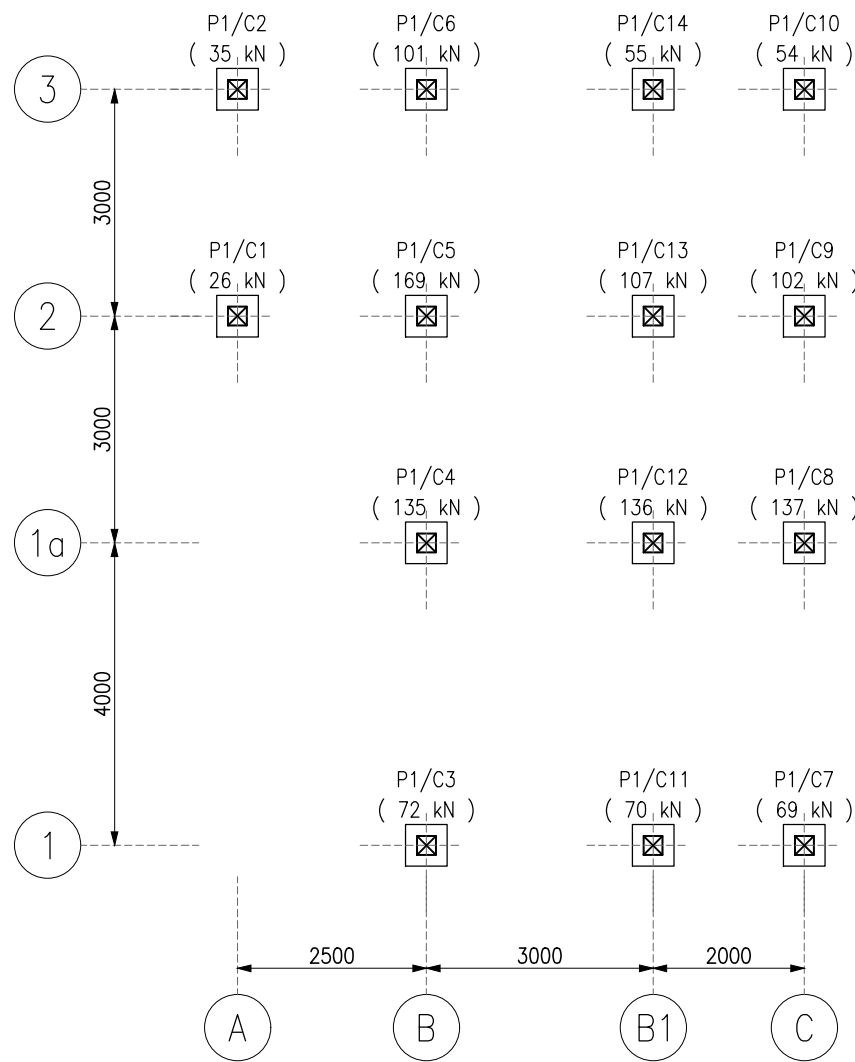
GANTRY STEEL BEAM TO ENGINEER DETAIL

PILING TO ENGINEER DETAIL & SPECIFICATION

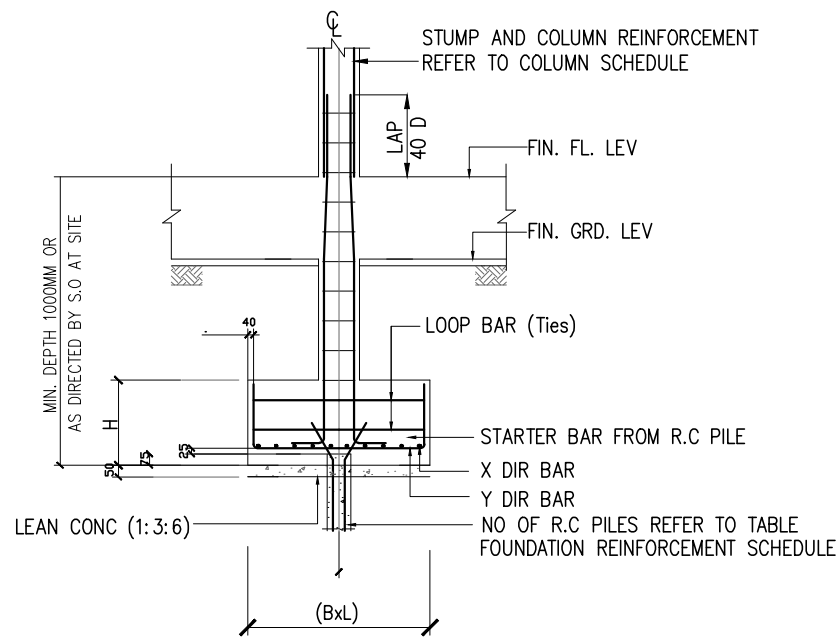


RAMP TO ENGINEER DETAIL





PILECAP FOUNDATION KEY PLAN



TYPICAL FOUNDATION DETAIL

N.T.S

COLUMN MARK		C1(2/A)	C2(3/A)	C3(1/B)	C4(1a/B)	C5(2/B)	C6(3/B)	C7(1/C)	C8(1a/C)	C9(2/C)	C10(3/C)	C11(1/B1)	C12(1a/B1)	C13(2/B1)	C14(3/B1)
FLOOR															
	Floor GB-RB														
	MAIN BAR	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12			
	TIES	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125				
	COL. SIZE	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250				
Stump															
	Floor GB-RB														
	MAIN BAR	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12	6T12
	TIES	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125	T10-125
	COL. SIZE	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250	250 X 250

COLUMN REINFORCEMENT SCHEDULE

PILECAP MARK	PILECAP DIMENSIONS			REINFORCEMENT			NO. of PILES	PILE SIZE (mm)	CAPACITY of Pile (tonnes)
	B,mm	L,mm	H,mm	XDirBAR	YDirBAR	TIES			
P1 (1/B)	550	550	500	T12-100	T12-100	3T10	1	250 x 250	40.0

FOUNDATION REINFORCEMENT SCHEDULE

**GENERAL NOTES:-**

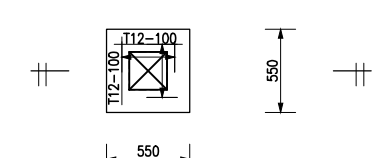
- UNLESS OTHERWISE SPECIFIED, ALL REINFORCED CONCRETE SHALL BE AS FOLLOWS:
  - (a) Slab & Staircase - Grade 30
  - (b) Beams - Grade 30
  - (c) Columns & Stairs - Grade 30
- MINIMUM CONCRETE COVER TO REINFORCEMENT:-
  - (a) Slabs = 20mm
  - (b) Beams = 25mm or dia. of the main bar whichever is greater to the stirrups.
  - (c) Columns = 25mm to main bars or dia. of the bar whichever is greater.
  - (d) Pilecaps = 40mm or as specified.
  - (e) Ground Beam & Slurry Wall - 40mm
  - (f) Wall = 20mm
  - (g) Cover to each end of a reinforcing bar not less than 20mm or twice the diameter of such bar.
- SPICES IN REINFORCING BARS:-
 

WELD STEEL	HIGH YIELD	MINIMUM LAP LENGTH	WELDED MESH STEEL
Top in tension	40 dia	51 dia	45 dia + 150mm
Top in compression	32 dia	35 dia	40 dia + 150mm
- TOP BARS NEED NOT BE COMPACTED TO BEAM WIDTH. THEY MAY BE PLACED WITHIN 40mm CLEARANCE SPREADING INTO SLAB IF NECESSARY.
- UNLESS OTHERWISE SPECIFIED, ALL REINFORCING BARS, SPACER BARS AND SPICER BARS SHALL BE PLACED IN 1 IN C/C.
- REINFORCING BARS TERMINATING AT OPENINGS SHALL BE HOOKED.
- CONCRETE JOINTS IN CONCRETE REFER TO SPECIFICATIONS AND FOLLOWING DETAILS:-
- ALL OPENINGS TO BE FORMED IN FLOOR OR WALL FOR CONSTRUCTION PURPOSES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- UNLESS OTHERWISE SHOWN, OPENINGS IN R.C. WALL AND SLAB SHALL HAVE 200 BARS ADDED AT ALL SIDES AND PROJECTING 40mm BEYOND THE CORNER.
- REMOVAL OF SHUTTLING FOR CONCRETE WORKS OF ORDINARY PORTLAND CEMENT:-
 

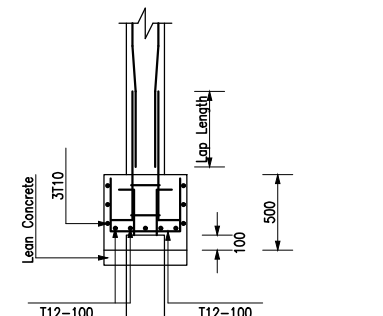
TYPE OF FOUNDATION	Min. period before striking formwork (days)	Continuing curing period (days)
Beam sides, walls and columns (unbraced)	7	7
Slab (props left under)	10	7
Beam soffits (props left under)	10	7
Prop to beam	10	7

**GENERAL NOTES OF R.C. PILE:-**

- THE PROPOSED 250x250mm R.C. PILE IS DESIGN TO WORKING LOAD 40 TONNE.
- THE PILE SHALL BE DESIGN TO THE RELEVANT B.S. OF CODE OF PRACTICE.
- 2 PILE OF 24m EACH SHALL BE DRIVEN TO POSITION AS DIRECTED BY S.O AND ONE OF THEM SHALL BE LOAD TESTED TWO TIMES ITS WORKING LOAD. THIS PILE SHALL LATER FROM PART OF THE FOUNDATION.
- LENGTH OF THE REST OF PILE TO BE DRIVEN SHALL BE DETERMINED BY S.O AFTER OBTAINING THE RESULT FROM THE LOAD TEST.
- FOR TENDER PURPOSES THE LENGTH OF THE PILE TO BE USED SHALL BE 18m.
- MAX. DEVIATION OF PILES FROM THEIR POSITION SHOWN SHALL BE 3 INCHES.
- MIN. WEIGHT OF HAMMER RECOMMENDED IS 1 TONNE.
- ALL R.C. DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL DRAWING.
- ANY DISCREPANCIES DETECTED MUST BE REPORTED TO THE CONSULTANT IMMEDIATELY.



PileCap Type P1  
( 1 x 40.0 Tonnes @ 500 C/c )



PileCap Type P1  
( 1 x 40.0 Tonnes @ 500 C/c )

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UNTUK TETUAN : BAHAGIAN PERANCANGAN EKONOMI NEGERI, PULAU PINANG.

TAJUK / TITLE  
 STRUKTUR  
 File Layout  
 Column schedule  
 Foundation Reinforcement schedule

TANDATANGAN PEMILIK BANGUNAN / TUAN TANAH

JURUTERA AWAM & STRUKTUR / CIVIL & STRUCTURAL ENGINEERS

TANDATANGAN JURUTERA / ENGINEER'S SIGNATURE

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TAJUK / TITLE

STRUKTUR  
Ground Beam Layout  
Roof Beam Layout

TANDATANGAN PEMILIK BANGUNAN / TUAN TANAH

JURUTERA AWAM & STRUKTUR / CIVIL & STRUCTURAL ENGINEERS

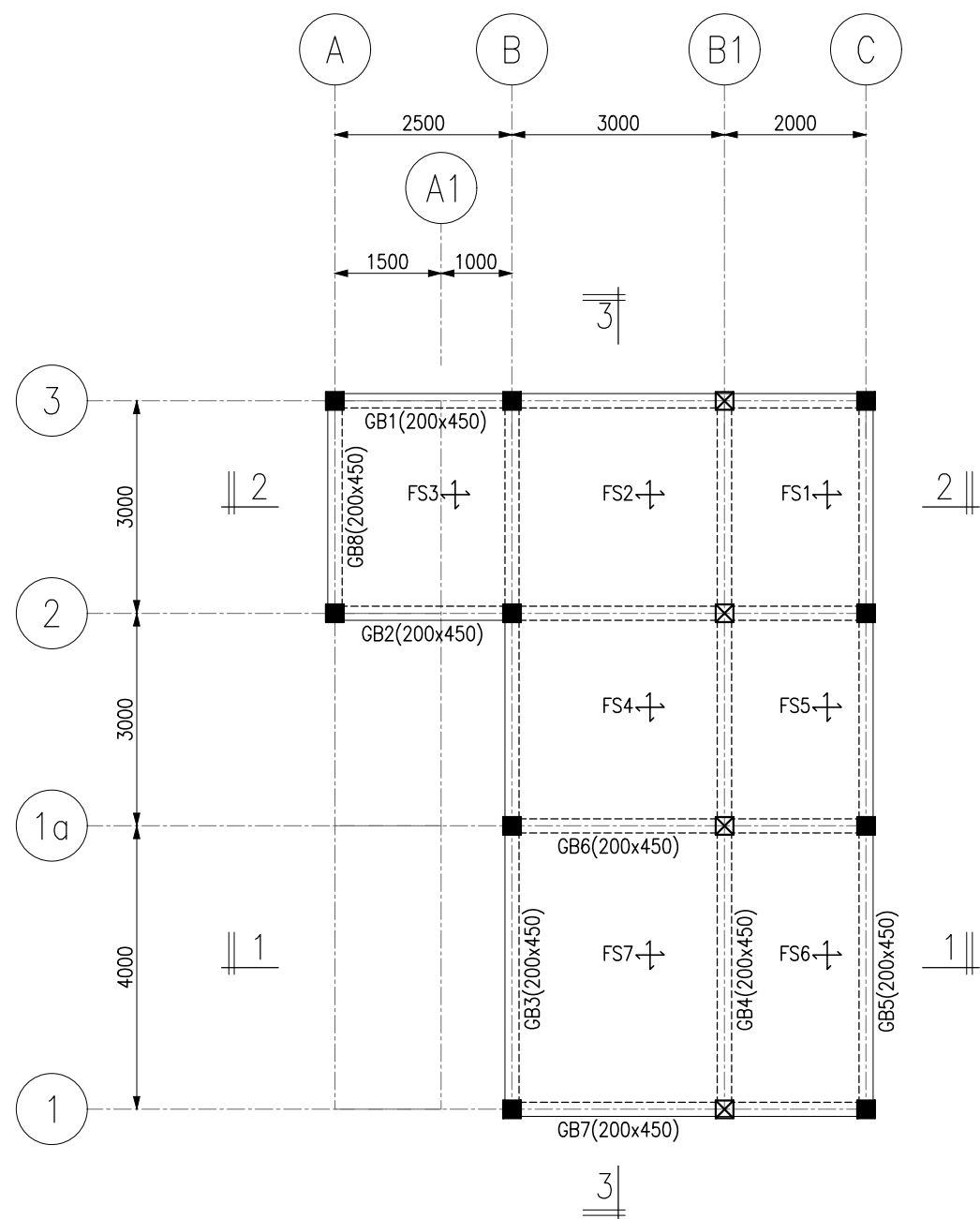
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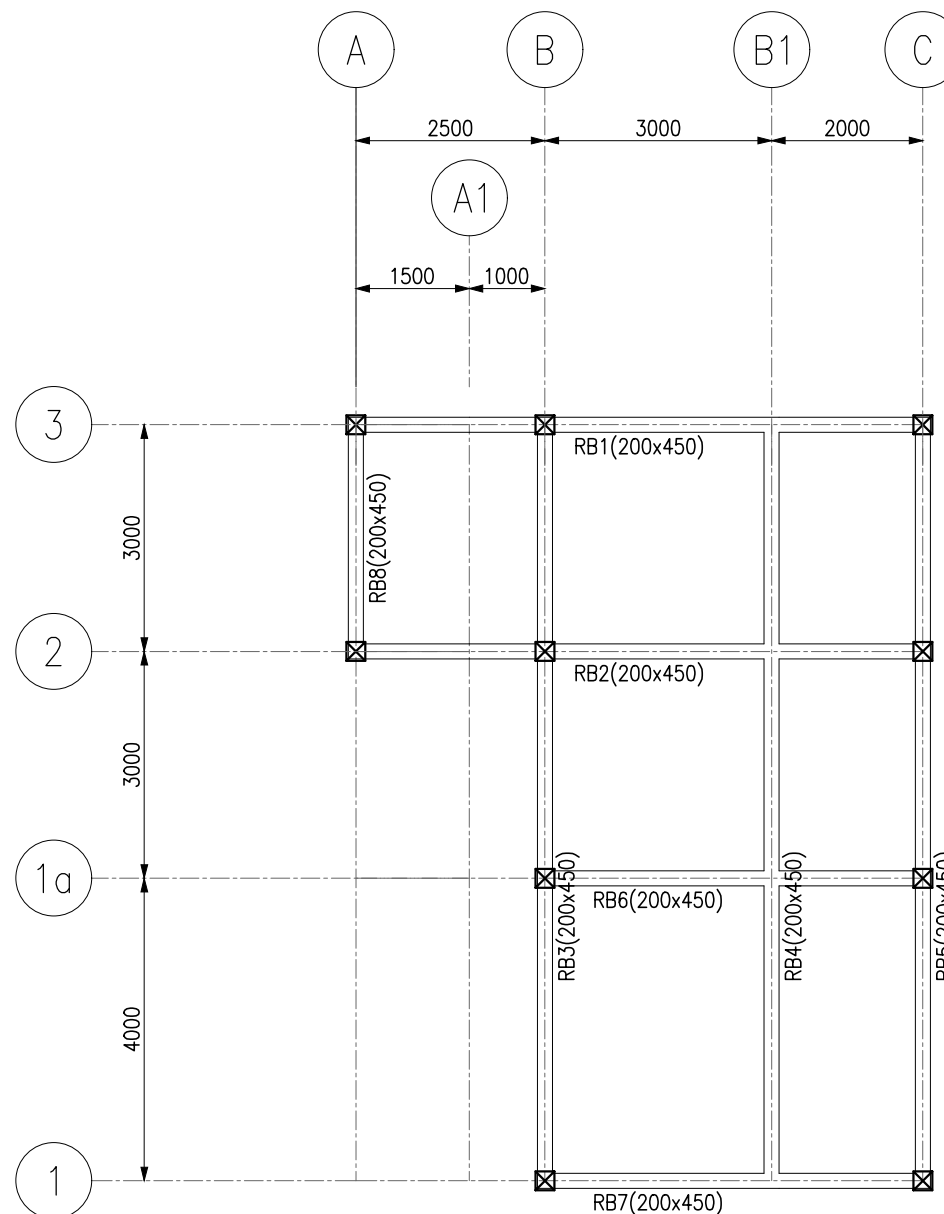
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JPS/PSSPU/2022/JETI/ARK

2/4



FLOOR KEY PLAN: GB  
ALL SLAB THICKNESS = 200 MM THK. U.N.O



FLOOR KEY PLAN: RB



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TAJUK / TITLE

STRUKTUR  
Ground Beam Detail  
Roof Beam Detail

TANDATANGAN PEMILIK BANGUNAN / TUAN TANAH

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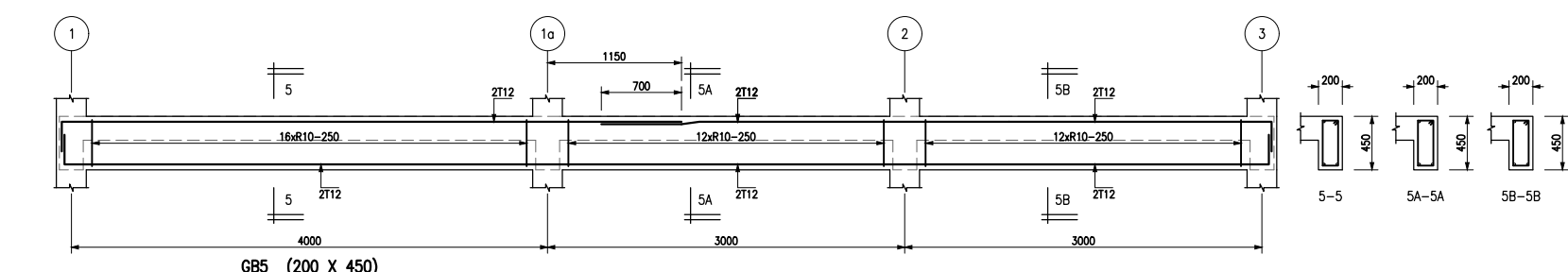
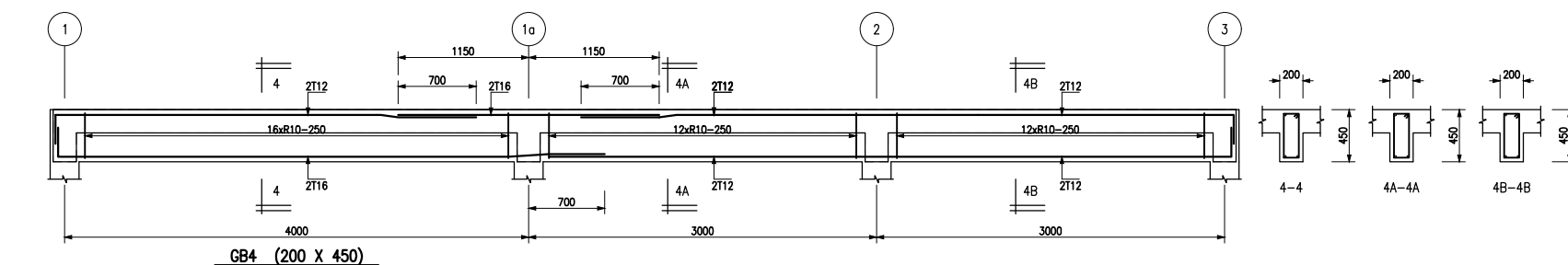
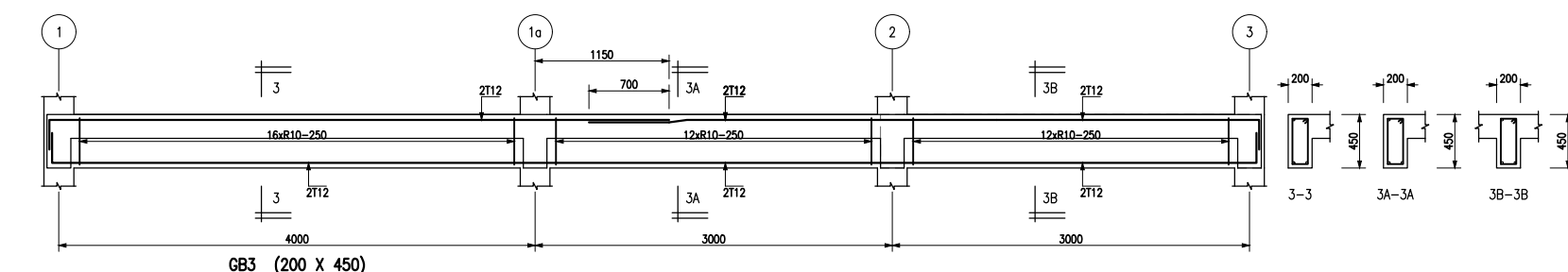
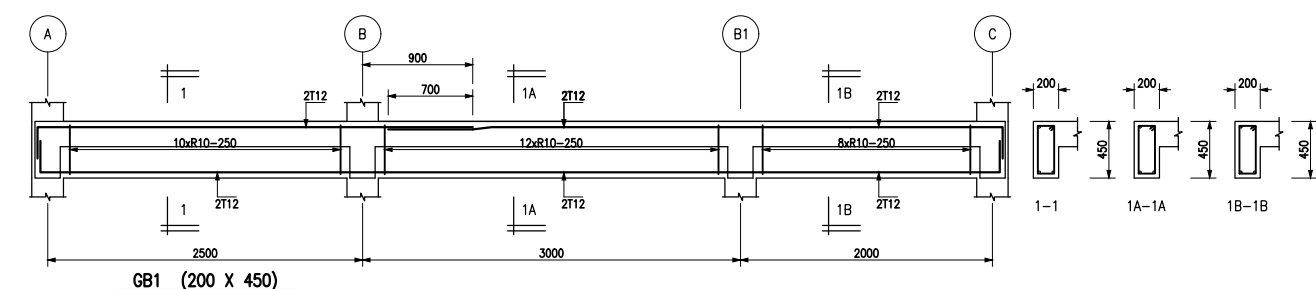
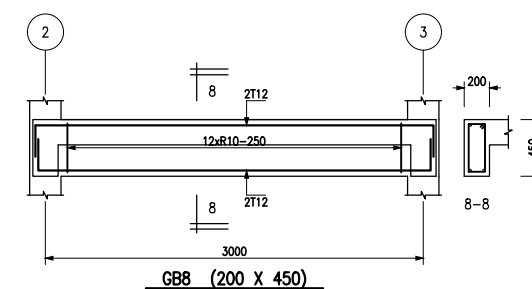
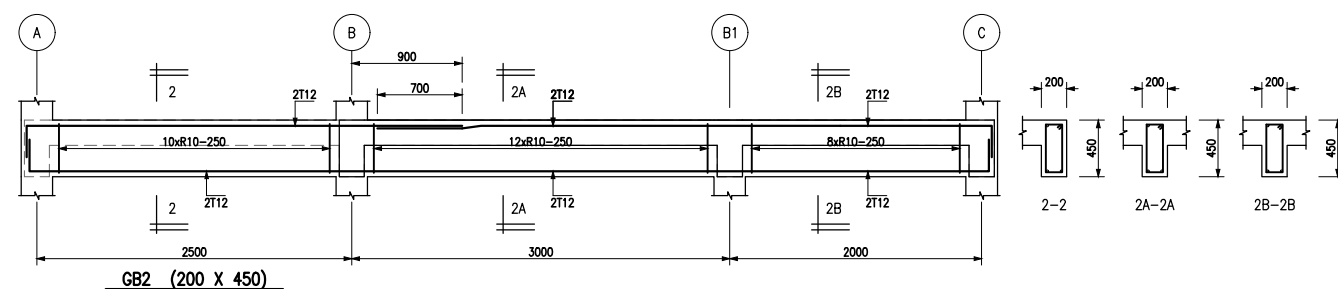
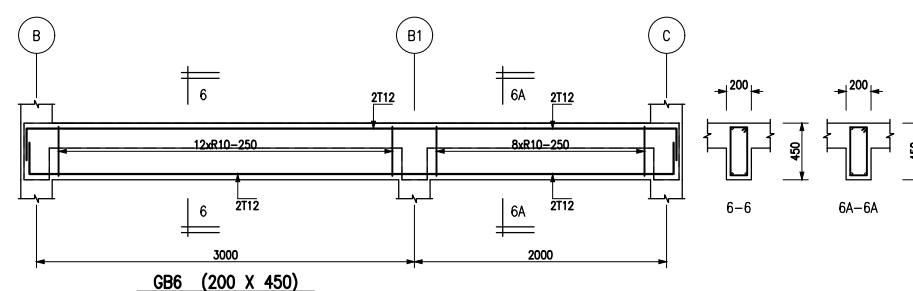
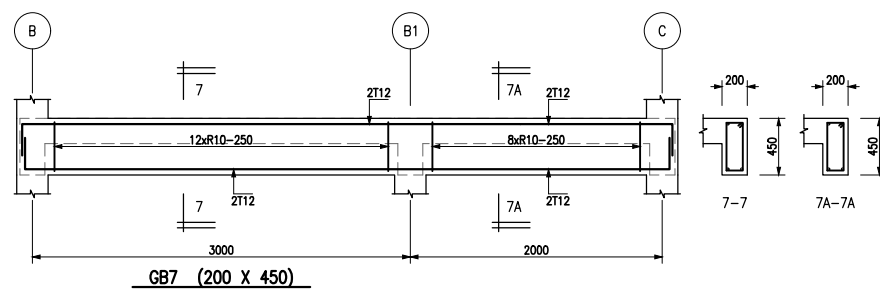
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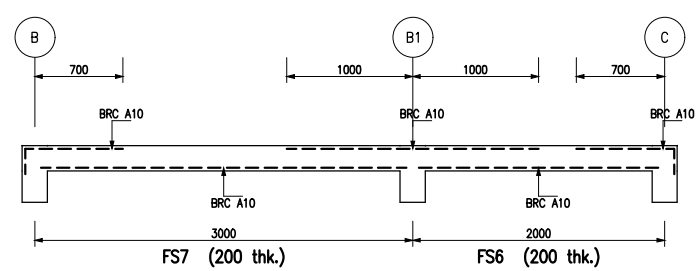
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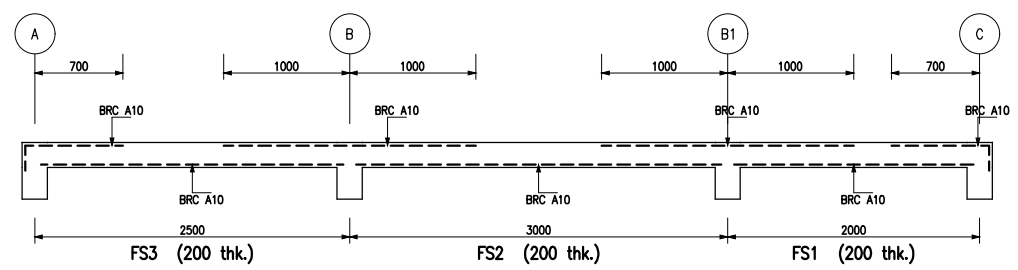
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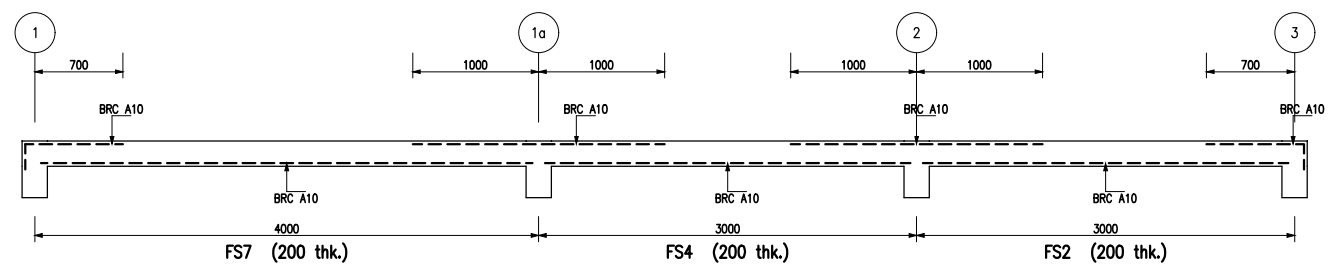
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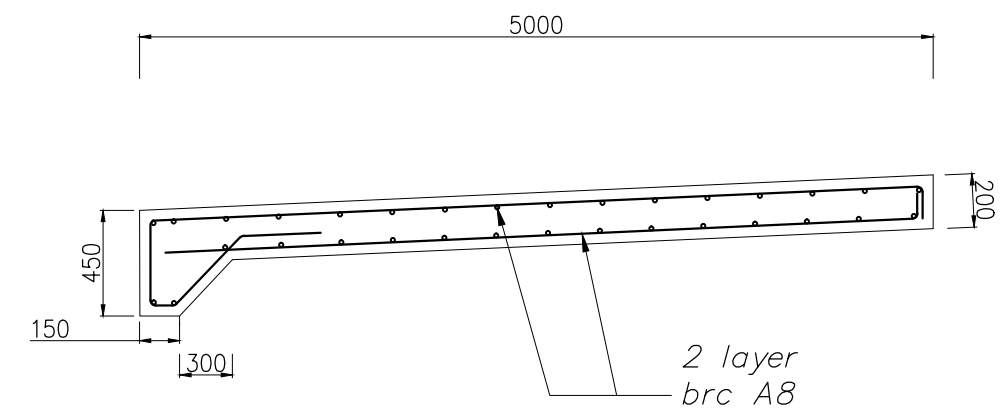
SECTION 1 - 1



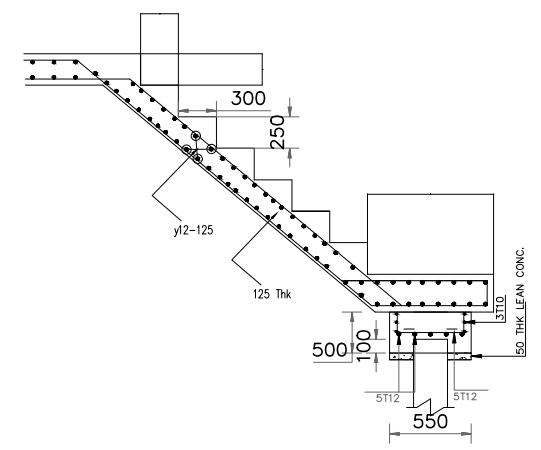
SECTION 2 - 2



SECTION 3 - 3



DETAIL OF RAMP



STAIRCASE

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TAJUK / TITLE  
 STRUKTUR  
 Slab Section Detail  
 Staircase Detail  
 Ramp Detail

TANDATANGAN PEMILIK BANGUNAN / TUAN TANAH

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