FEDERAL GOVERNMENT OF SOMALIA

MINISTRY OF AGRICULTURE AND IRRIGATION

Specific Procurement Notice Request for Bids

Small Works

(One-Envelope Bidding Process)

Contract Title	Construction of Bonkay Agricultural Research Station (BARS) for the Ministry of Agriculture and Irrigation (MoAI) Baidoa Town, Baidoa District, Somalia.
RFB No:	SO-MOAI-525110-CW-RFB
Project	Somalia Food Project (S-FSRP)
Project ID.	P177816
Grant No.	IDA-E1850
Purchaser	Ministry of Agriculture and Irrigation, Federal Republic of Somalia
Country	Somalia

1. The Federal Government of Somalia (FGS) has received financing from the World Bank toward the cost of implementing the **"Somalia Food Systems Resilience Project (FSRP)"** and intends to apply part of the proceeds toward payments under the **"Construction of Bonkay Agricultural Research Station (BARS) for the Ministry of Agriculture and Irrigation (MoAI)**, Baidoa Town, Baidoa District, Somalia.**".** For this contract, the Borrower shall process the payments using the Direct Payment disbursement method, as defined in the World Bank's Disbursement Guidelines for Investment Project Financing.

2. The Ministry of Agriculture and Irrigation of the Federal Government of Somalia now invites sealed bids from eligible bidders for the **"Construction of Bonkay Agricultural Research Station (BARS) for the Ministry of Agriculture and Irrigation (MoAI), Baidoa Town, Baidoa District, Somalia.**" The duration for the completion of the contract is 18 (eighteen) Months.

3. Bidding will be conducted through National Competitive Procurement using a Request for Bids (RFB) as specified in the World Bank's "Procurement Regulations for IPF Borrowers" July 2016, revised in November 2017, August 2018, November 2020, and September 2023 ("Procurement Regulations") and is open to all eligible Bidders as defined in the Procurement Regulations

4. Interested eligible Bidders may obtain further information from the Ministry of Agriculture and Irrigation, FGS, Mogadishu, Somalia through email: procurement@fsrp.gov.so and copy to: mubashir.fsrpsom@gmail.com, Somalia, and inspect the bidding documents during office hours **09:00 to 16:00** hours, Mogadishu, Somalia local time, from Saturday to Thursday, exclusive of public holidays, at the address given below.

5. The bidding documents in English may be obtained by interested eligible bidders free of cost upon submitting a written application to the address below.

6. Bids must be delivered to the address below on or before ***16th May 2026. at 11:30am*** **Mogadishu**, **Somalia time on** ***16th May 2026.at 11:30am*** **Electronic Bidding will not be permitted**. **Late Bids will be rejected.** Bids will be publicly opened in the presence of the Bidders designated representatives and anyone who chooses to attend at the address below on ***16th May 2026.at 11:30am*** **Mogadishu**, **Somalia time**

7. All Bids must be accompanied by a **Bid-Securing Declaration in the format included in Section IV, Bidding Forms.**

8. All Bids must be accompanied by a Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Declaration.

9. Attention is drawn to the Procurement Regulations requiring the Borrower to disclose information on the successful bidder's beneficial ownership as part of the Contract Award Notice, using the Beneficial Ownership Disclosure Form as included in the bidding document.

10. The address
referred to above
is: FSRP Project
Office
Procurement
Ministry of Agriculture and
Irrigation Wabari district,
Jayga Street, Near to Ali Jimale
Mosques, Building 46
Floor/ Room number: S-FSRP/NPCU Office on 1st
Floor Email: fsrpprocurement@moa.gov.so.
Copy
mubashir.fsrpsom@ma
il.com
City: Mogadishu
Country: Somalia

MOON
CONSTRUCTION COMPANY

Project:

(PROPOSED BONKAY EXTENSION CENTER)

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

Project: PROPOSED BONKAY EXTENSION CENTER

3D View: Day

MOON
CONSTRUCTION COMPANY

Project: PROPOSED BONKAY EXTENSION CENTER

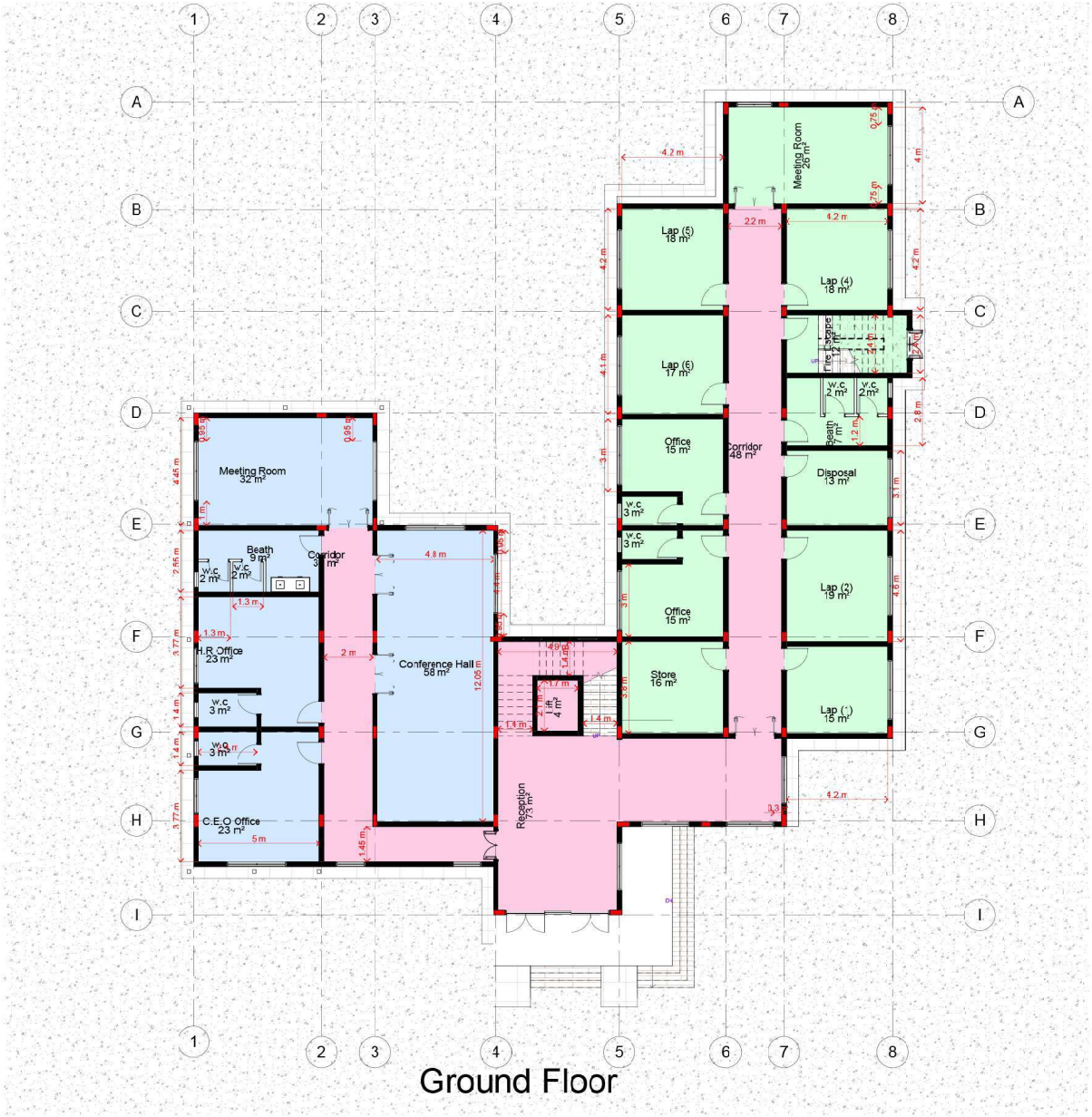
3D View:Night

Project: PROPOSED BONKAY EXTENSION CENTER

3D View:Night

Project: PROPOSED BONKAY EXTENSION CENTER

3D View:Night



Ground Floor

MOON
CONSTRUCTION COMPANY

Notes:

1- ALL DIMENSIONS ARE IN M (METER) UNLESS OTHERWISE SPECIFIED.

2- ALL DIMENSION MUST BE CHECKED AT SITE BEFORE CONSTRUCTION.

Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No	Chkd: Eng:A.Badar	Designed: Eng A.Badar
Date: 22-06-2025	Checked: Eng:A.Badar	

Ground Floor

Scale: A1 A3	1:100	Sheet number: L3.01

First Floor

MOON
CONSTRUCTION COMPANY

Notes:

1- ALL DIMENSICNS ARE IN M (METER) UNLESS OTHERWISE SPECIFIED.

2- ALL DIMENSICN MUST BE CHECKED AT SITE BEFORE CONSTRUCTION.

Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No.	Drawn: Eng:A.Badar	Designed: Eng A.Badar
Date: 22-06-2025	Checked: Eng:A.Badar	

First Floor

Scale: A1 1:100 A3
Sheet Number: L3.02

MOON
CONSTRUCTION COMPANY

Second Floor

MOON
CONSTRUCTION COMPANY

Notes:

1- ALL DIMENSIONS ARE IN M (METER) UNLESS OTHERWISE SPECIFIED.

2- ALL DIMENSION MUST BE CHECKED AT SITE BEFORE CONSTRUCTION.

Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project #:	Drawn: Eng:A.Badar	Designed: Eng:A.Badar
Date: 22-06-2025	CHECKED: A.ALI	

Second Floor

Scale: A1 1:100 A3	Sheet number: L0.03

GENERAL SPECIFICATIONS:

1. OVERVIEW
1.1. BEFORE STARTING CONSTRUCTION, ENSURE ALL PROJECT DRAWINGS ARE CROSS-REFERENCED WITH THE GENERAL ARRANGEMENT (G.A.), SERVICES, ARCHITECTURAL, AND SUPPLIER DOCUMENTATION, ALONGSIDE PROJECT SPECIFICATIONS AND SCOPE.
1.2. ALL DIMENSIONS PROVIDED ARE IN MILLIMETERS UNLESS STATED DIFFERENTLY.
1.3. LEVELS ARE BASED ON THE EXISTING GROUND UNLESS ANOTHER REFERENCE IS PROVIDED.
1.4. ENSURE ALL CONSTRUCTION GRID LINES MATCH THE STRUCTURAL GRID LINES FOR CONSISTENCY.
1.5. THE REFERENCE LEVEL L/1 (-12.000) IS EQUIVALENT TO THE EXISTING GROUND LEVEL.
1.6. ANY INCONSISTENCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.
1.7. THE CONTRACTOR MUST SECURE THE SITE EARLY TO FACILITATE THE TIMELY EXECUTION OF STRUCTURAL WORKS.
1.8. ANY PROPOSED UNIQUE CONSTRUCTION METHODS OR TEMPORARY STRUCTURES REQUIRE PRIOR SUBMISSION OF A DETAILED PLAN, CALCULATIONS, AND SHOP DRAWINGS FOR ENGINEER APPROVAL.

2. FOUNDATION ESTABLISHMENT
2.1. FOUNDATION LEVELS FOR COLUMNS AND STRIP FOOTINGS MUST BE APPROVED BY THE ENGINEER BEFORE PROCEEDING.

3. CONCRETE USAGE
3.1. CONCRETE MIX DESIGNS NEED ENGINEER APPROVAL BEFORE WORK BEGINS.
3.2. BLINDING AND MASS CONCRETE SHOULD BE GRADE 15 (1:3:6) OR AS AGREED, WHEREAS STRUCTURAL CONCRETE SHOULD BE AT LEAST GRADE C3C, WITH WATER RETAINING STRUCTURES REQUIRING NO LESS THAN GRADE C30.

4. REINFORCING STEEL
4.1. USE HIGH YIELD DEFORMED BARS (H.Y.) PER B.S. 4449, AND MESH FABRIC PER B.S. 4483.
4.2. FOLLOW B.S. 8110 FOR LAPS, SPLICES AND BENDING. MAIN REINFORCEMENT SHOULD HAVE A 300MM LAP UNLESS SPECIFIED, WITH A 25MM COVER FOR LINKS.
4.3. ENSURE ALL REINFORCEMENT IS CLEAN, FREE FROM RUST, OIL, OR ANY CONTAMINANTS BEFORE CONCRETE PLACEMENT.
4.4. REINFORCEMENT IN BEAMS, COLUMNS, AND SLABS SHOULD INCLUDE TOP AND BOTTOM MAIN BARS, 2-LEGGED STIRRUPS, AND LINKS, WITH HELICAL REINFORCEMENT AS DIRECTED.
4.5. SECURE REINFORCEMENT AS PER B.S. 8110 OR ACCORDING TO SHOP DRAWINGS, UNDER ENGINEER GUIDANCE.
4.6. USE A 50MM COVER IN MARINE OR AGGRESSIVE ENVIRONMENTS; OTHERWISE, 25MM FOR SLABS, 40MM FOR BEAMS/COLUMNS, AND 75MM FOR FOUNDATIONS UNLESS SPECIFIED DIFFERENTLY.
4.7. TIE REINFORCEMENT WITH 1.6MM SOFT ANNEALED IRON WIRE.

5. FINISHING TOUCHES
5.1. FINISH CONCRETE ELEMENTS ACCORDING TO ARCHITECTURAL DRAWINGS, TECHNICAL SPECIFICATIONS, AND ARCHITECT-APPROVED COLOR SCHEMES.
5.2. APPLY A 12MM THICK CEMENT-SAND (1:3) FINISH FOR BLINDING UNLESS OTHERWISE DIRECTED

6. JOINT MANAGEMENT
6.1. USE 25MM THICK NEOPRENE RUBBER FOR EXPANSION JOINTS UNLESS SPECIFIED OTHERWISE.
6.2. FILL EXPANSION JOINTS IN CONCRETE SLABS WITH APPROVED SEALANTS.
6.3. USE APPROVED STOP ENDS TO FORM CONSTRUCTION JOINTS.

7. WATERPROOFNG MEASURES
7.1. ENSURE CONCRETE STRUCTURES RETAIN OR EXCLUDE WATER USING SPECIFIED ADMIXTURES OR WATERPROOFING METHODS.
7.2. USE WATER BARS TO SEAL CONSTRUCTION JOINTS IN WATER RETAINING STRUCTURES AS SPECIFIED.

8. DESIGN LOADS
8.1. DEAD LOADS:
- ROOF: 0.75 KN/M^2
- FLOOR: 1.5 KN/M^2
- SERVICES (BASIC ELECTRICAL & MECHANICAL): 0.1 KN/M^2
8.2. IMPOSED LOADS:
- ROOF: 0.75 KN/M^2
- FLOOR: 3.0 KN/M^2

9. FOUNDATION BEARING CAPACITY
9.1. ASSUME A BEARING CAPACITY OF 100 KN/M^2 ON HARD GRAVEL AT APPROXIMATELY 1.5M DEPTH. CONDUCT SITE-SPECIFIC GEOTECHNICAL INVESTIGATIONS AND TESTING BEFORE CONSTRUCTION.

STRUCTUFAL COLUMN SCHEDULE	
DIMENSION	MARK
250 x 400mm	C-01
250 x 500mm	C-02
250 x 500mm	C-03

STRUCTURAL FOUNDATION SHCEDULE	
DIMENSION	MARK
1200 x 1200 x 450mm	F-01
1500 x 1500 x 450mm	F-02
1800 x 1800 x 450mm	F-03
3500 x 3100 x 500mm	F-04

MOON
CONSTRUCTION COMPANY

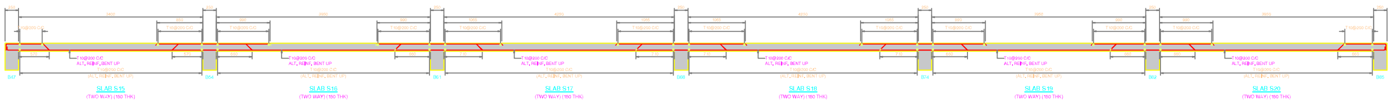
IMPLEMENTATION STAGE
AUDIT DOCUMENT

PROPOSED BONKAY EXTENSION CENTER

Project No	DRAWN	DESIGNED
	A.OMAR	A.OMAR
DATE	CHEKED	
22-05-2025	A.ALI	

GENERAL SPECIFICATIONS

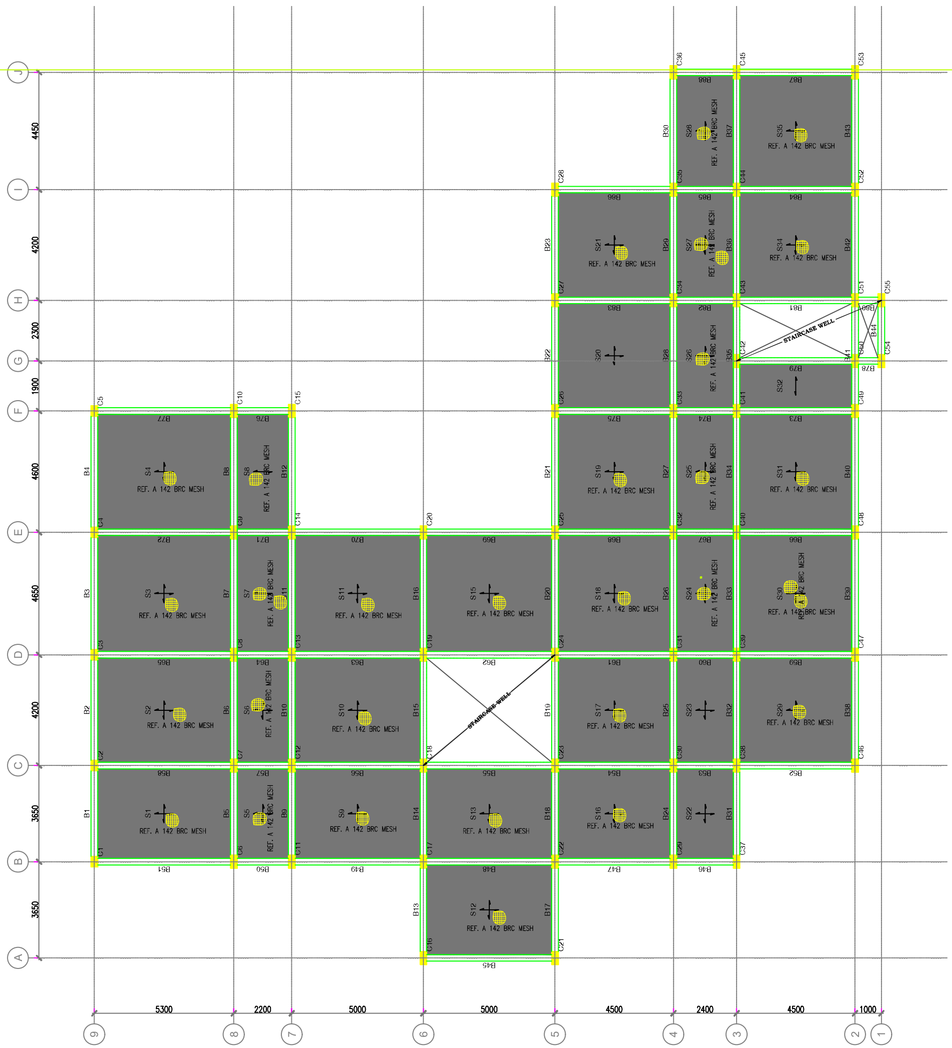
SCALE	SHEET NUMBER	REV
A1 1:20 A3	S0.01	



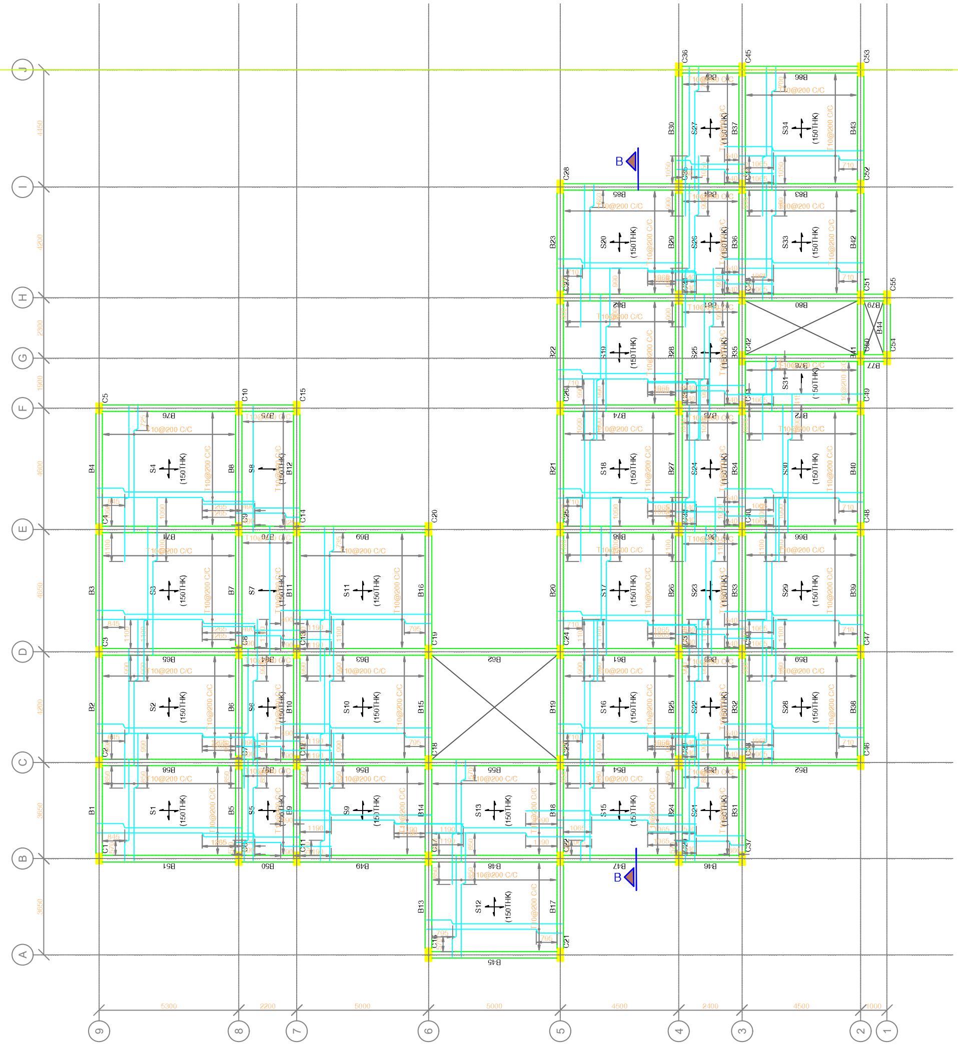
SECTION B-B

SLAB SCHEDULE (M25 : FE460) (LEVEL : 4M)

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DISTRIBUTION	REMARKS
			SHORT SPAN (BENT UP)	LONG SPAN (BENT UP)	SS CONT.	LS CONT.		
S1, S2, S3, S5, S6, S10, S16, S19, S20, S21, S22, S23, S24, S26, S27, S28, S33, S34	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	–
S4	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	–
S7, S8, S31	150	1-Way	T10 @ 200	–	T10 @ 200	–	T10 @ 200	–
S9, S13, S15, S17, S18, S29, S30	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	–
S11	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	–
S12	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	–	T10 @ 200	–
S25	150	2-Way	T10 @ 200	T10 @ 200	–	T10 @ 200	T10 @ 200	–



FLOOR PLAN AT 0+0 M
(SCALE: H = 1:100 / V = 1:100)



BENTUP REINFORCEMENT LAYOUT - 4M
(SCALE: H = 1:100 / V = 1:100)

NOTES

1. This drawing is to be read in conjunction with all other relevant Architectural/Structural drawings.
2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm, Columns 30mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1500mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION

REVISIONS

DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE
PROPOSED BONKAY EXTENSION CENTRE
BAIDOA-SOMALIA

DRAWING TITLE
FLOOR SLABS
RC DETAILS.

C1/Sfb

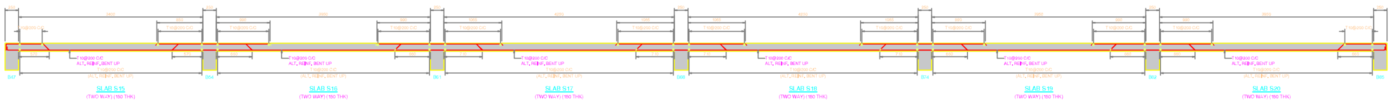
PG No. 01/06 | DRG No. | FILE No.

SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

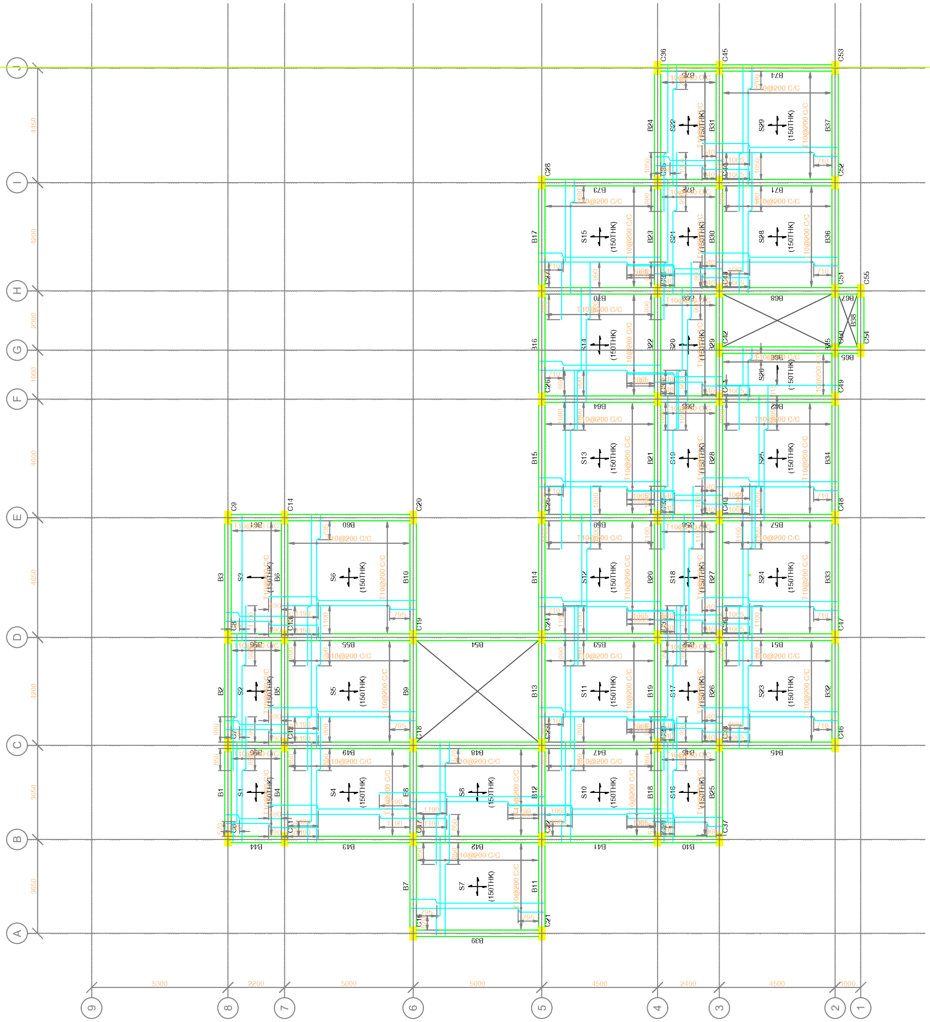
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			



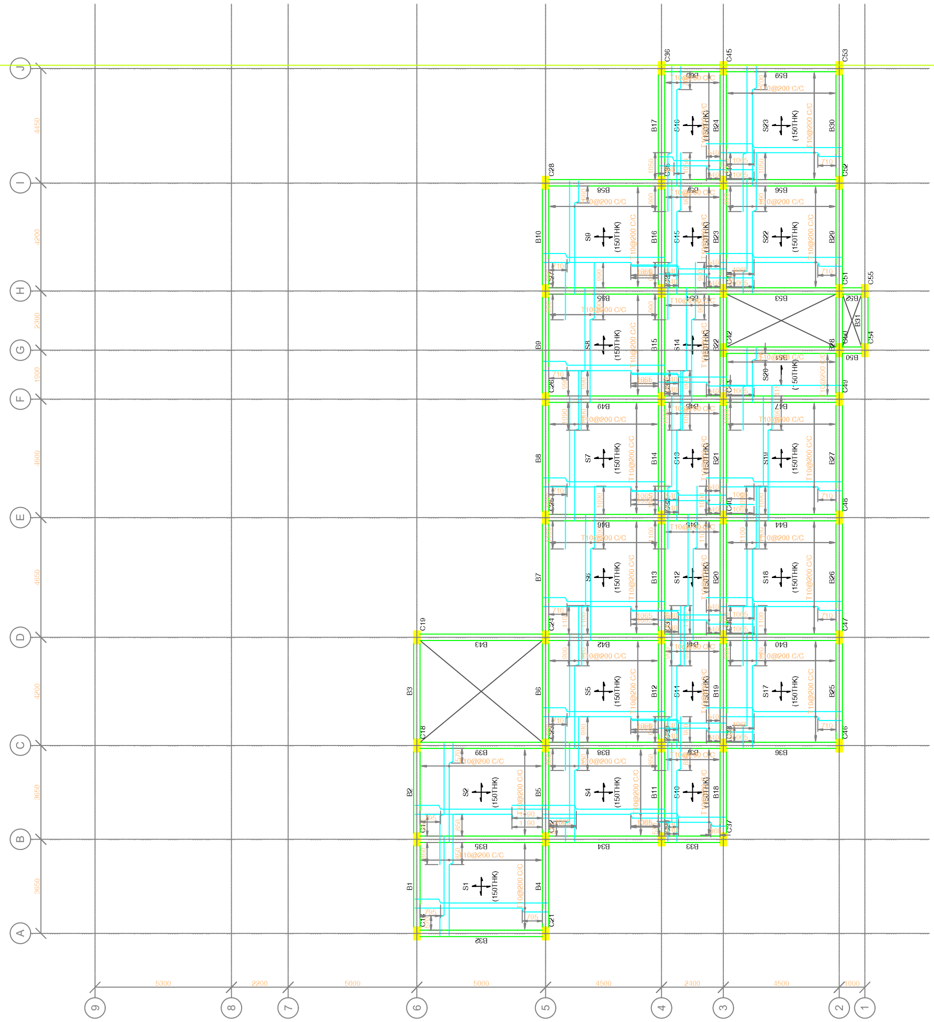
SECTION B-B

SLAB SCHEDULE (M25 : FE460) (LEVEL : 4M)

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT SHORT SPAN (BENT UP)	BOTTOM REINFORCEMENT LONG SPAN (BENT UP)	TOP REINFORCEMENT SS CONT.	TOP REINFORCEMENT LS CONT.	DISTRIBUTION	REMARKS
S1, S2, S3, S5 S6, S10, S16 S19, S20, S21 S22, S23, S24 S26, S27, S28 S33, S34	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	—
S4	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	—
S7, S8, S31	150	1-Way	T10 @ 200	—	T10 @ 200	—	T10 @ 200	—
S9, S13, S15 S17, S18, S29 S30	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	—
S11	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	T10 @ 200	—
S12	150	2-Way	T10 @ 200	T10 @ 200	T10 @ 200	—	T10 @ 200	—
S25	150	2-Way	T10 @ 200	T10 @ 200	--	T10 @ 200	T10 @ 200	—



BENTUP REINFORCEMENT LAYOUT - 8M
(SCALE: H = 1:100 / V = 1:100)



BENTUP REINFORCEMENT LAYOUT - 12M
(SCALE: H = 1:100 / V = 1:100)

NOTES

1. This drawing is to be read in conjunction with all other relevant Architectural/Structural drawings.
2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm, Columns 30mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1500mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION

REVISIONS

DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE
PROPOSED BONKAY EXTENSION CENTRE BAIDOA-SOMALIA

DRAWING TITLE
FLOOR SLABS
RC DETAILS.

C1/Sfb

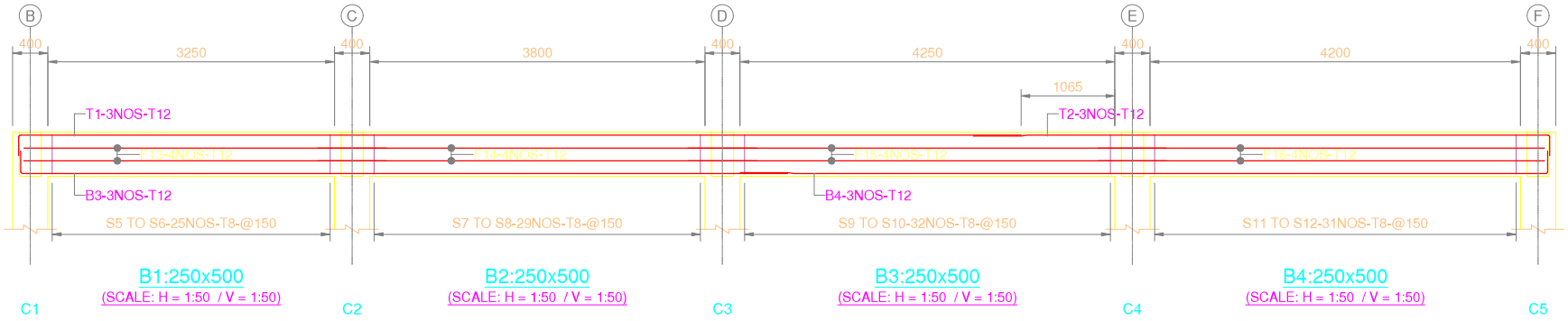
PG No. 01/06 | DRG No. | FILE No.

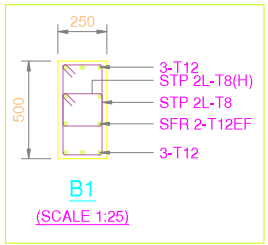
SCALE(S) 1:50, 1:25

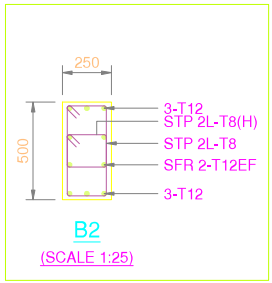
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

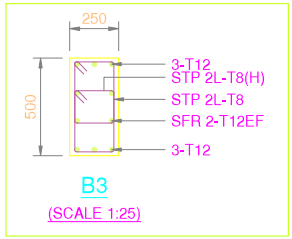
APPROVED BY

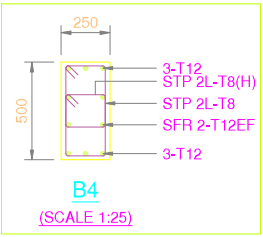
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			











ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
B1, B3 ISF, B4	T1	3	12		11565	232	11068				48
	T2	3	12		6735	232	5925	73	12	540	48
	B3	3	12		8920	256	8656				48
	B4	3	12		9380	256	8547	73	12	540	48
	S5	23	8		1550	200	450				32
	S6	2	8		1550	200	450				32
	S7	27	8		1550	200	450				32
	S8	2	8		1550	200	450				32
	S9	30	8		1550	200	450				32
	S10	2	8		1550	200	450				32
	S11	29	8		1550	200	450				32
	S12	2	8		1550	200	450				32
	F13	4	12		4395	150	4280				48
	F14	4	12		4440	4440					
	F15	4	12		4890	4890					
	F16	4	12		4805	310	4521				48

SUMMARY :- B1, B3, B2, B4

BAR DIA	8	12	TOTAL
LGT (M)	181	185	366
WT (KG)	72	163	235

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
B52, B53 B54, B55 B56, B57 B58	T1	3	12		11155	382	10195	73	12	540	48
	T2	2	12		11485	11485					
	T3	3	12		11860	11860					
	T4	1	12		9355	9355					
	T5	1	12		4895	540	73	12	4270		
	T6	3	12		7780	382	6820	73	12	540	48
	T7	2	12		2055	2055					
	B8	3	12		10680	605	10036	73	12	540	48
	B9	3	12		11330	11330					
	B10	2	12		2630	2630					
	B11	3	12		7780	605	6795	73	12	540	48
	S12	30	8		1550	200	450				32
	S13	16	10		1580	200	450				40
	S14	30	10		1580	200	450				40
	S15	33	10		1580	200	450				40
	S16	33	10		1580	200	450				40
	S17	14	10		1580	200	450				40
	S18	35	8		1550	200	450				32
	S19	2	8		1550	200	450				32
	F20	4	12		5395	211	5259				48
	F21	4	12		2790	2790					
	F22	4	12		4890	4890					
	F23	4	12		5390	5390					
	F24	4	12		5390	5390					
	F25	4	12		2590	2590					
	F26	4	12		5690	5690					
	SB27	2	12		220	220					
	SB28	2	12		220	220					
	SB29	1	12		220	220					
	SB30	5	12		220	220					

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
B52, B53 B54, B55 B56, B57 B58	SB31	5	12		220	220					
	SB32	5	12		220	220					
	SB33	2	12		220	220					
	SB34	2	12		220	220					

SUMMARY :- B52, B53, B54, B55, B56, B57, B58

BAR DIA	8	10	12	TOTAL
LGT (M)	103	198	363	664
WT (KG)	41	123	325	489

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
B51, B52 B53, B54 B55, B57 B58	T1	3	12		11810	150	11505				48
	T2	2	12		11605	11605					
	T3	3	12		11810	540	73	12	11150		
	T4	3	12		8215	150	7580	73	12	540	48
	B5	3	12		8920	150	8756				48
	B6	3	12		9295	540	73	12	8179		
	B7	3	12		8945	540	73	12	8329		
	B8	3	12		4480	150	4267	73	12	540	48
	B9	22	8		1650	200	450				32
	B10	20	10		1680	200	460				40
	B11	20	10		1680	200	460				40
	B12	20	10		1680	200	460				40
	B13	20	8		1650	200	450				32
	B14	20	8		1650	200	450				32
	B15	20	8		1650	200	450				32
	F16	4	12		4295	150	4150				48
	F17	4	12		4340	4340					
	F18	4	12		4790	4790					
	F19	4	12		4790	4790					
	F20	4	12		4240	4240					
	F21	4	12		4340	4340					
	F22	4	12		4855	315	4371				48
	SB23	1	12		990	990					
	SB24	5	12		990	990					
	SB25	4	12		990	990					
	SB26	1	12		990	990					

SUMMARY :- B51, B52, B53, B56, B35, B57, B54

BAR DIA	8	10	12	TOTAL
LGT (M)	157	158	340	655
WT (KG)	62	81	305	448

NOTES

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4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
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8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

BEAMS RC DETAILS

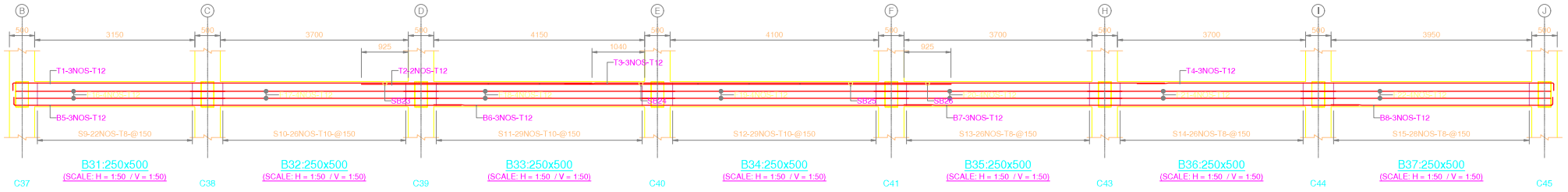
PG No. | DRG No. | FILE No.

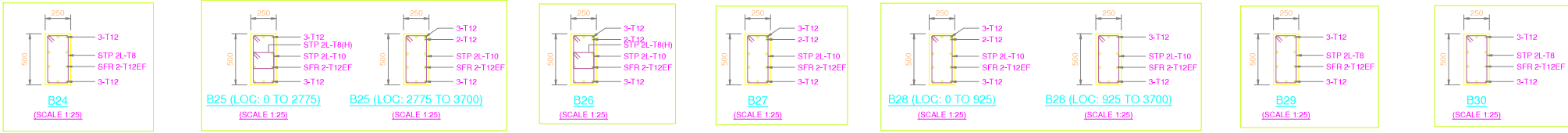
SCALE(S) 1:50, 1:25

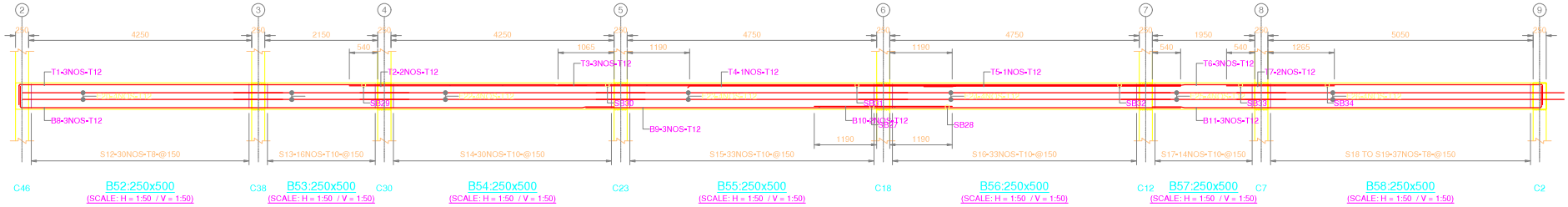
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

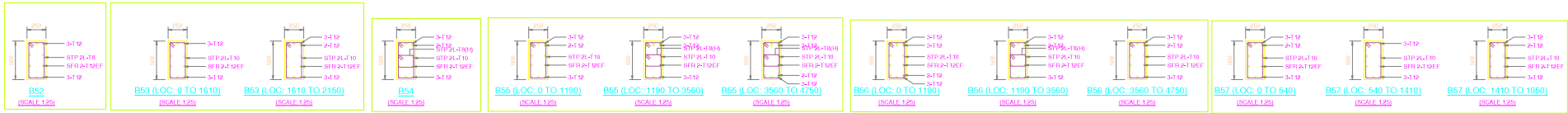
APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			









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ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

BEAMS RC DETAILS

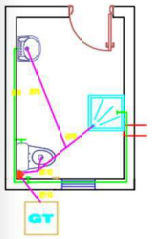
PG No. | DRG No. | FILE No.

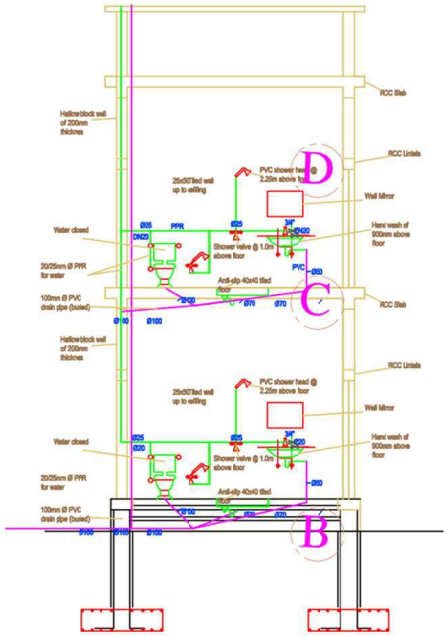
SCALE(S) 1:50, 1:25

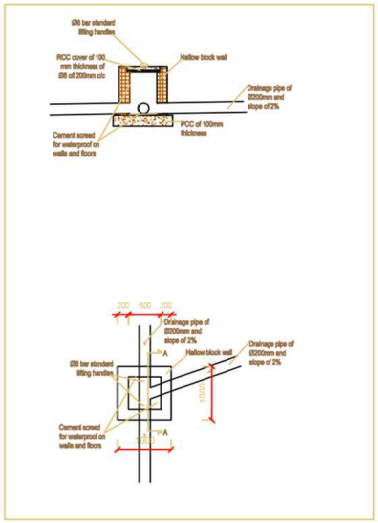
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			







PLUM. LEGEND

SYMBOL	DESCRIPTION
MH	Man Hole
GT	Gully Trap
	PPR For Water Pipe
	PVC For Drainage Pipe
	PVC For Drainage Pipe
	Hand Wash
	shower
	Water Close
	Floor Trap
	Valve
	Sink
	shower head
	shower valve
	UPVC For Rain water Pipe
	32 Dia PPR drop pipe

MOON
CONSTRUCTION COMPANY

Notes:

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Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No:	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

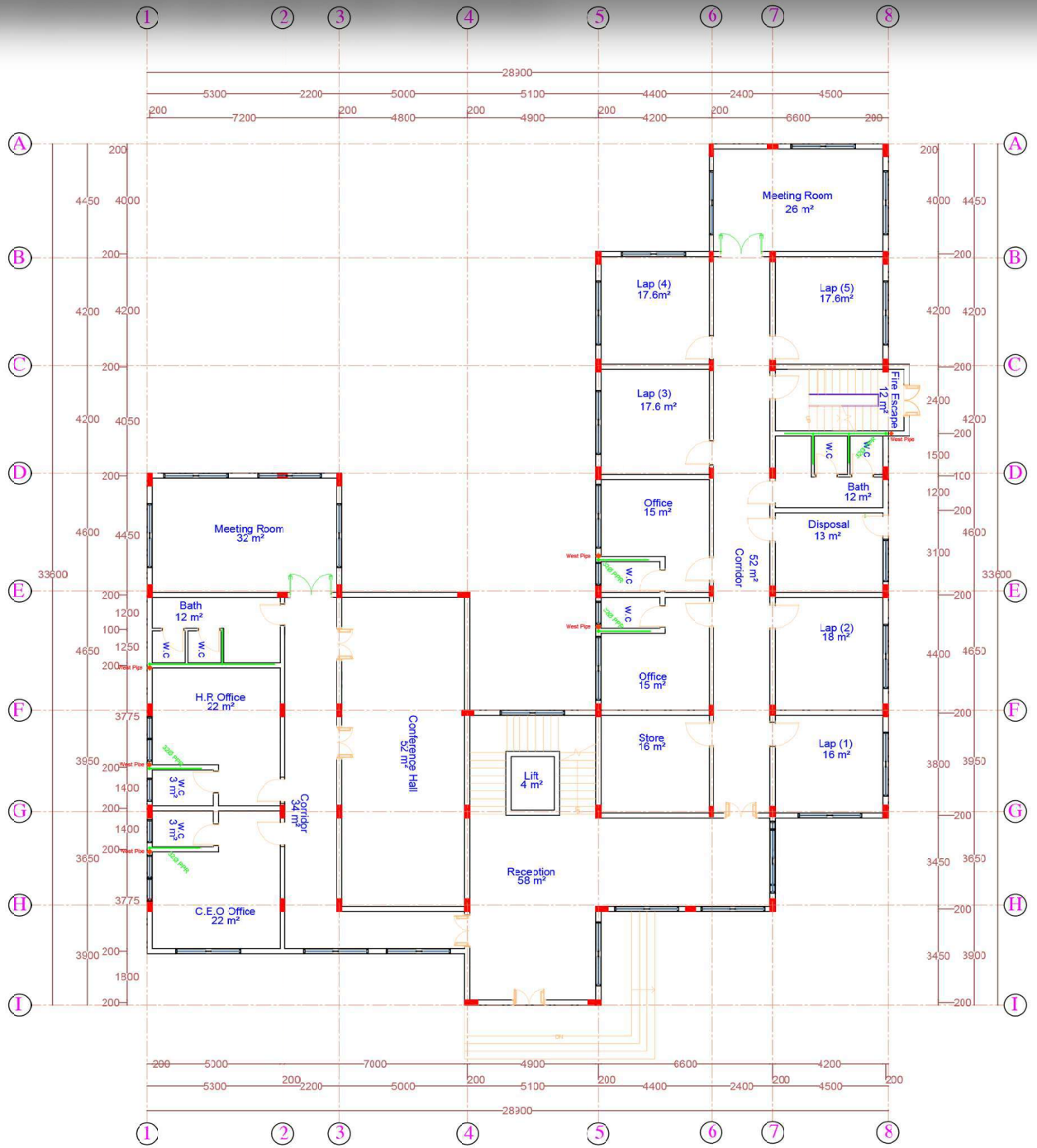
Plumbing Lenged

Scale: A1 1:100 A3	Sheet number: P0.00

Project: PROPOSED BONKAY EXTENSION CENTER

Plumbi:

MOON
CONSTRUCTION COMPANY



Ground Floor

MOON
CONSTRUCTION COMPANY

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Implementation stage

Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

Ground Floor

Scale: A1 A3	1:100	Sheet number: P0.01

Project: PROPOSED BONKAY EXTENSION CENTER

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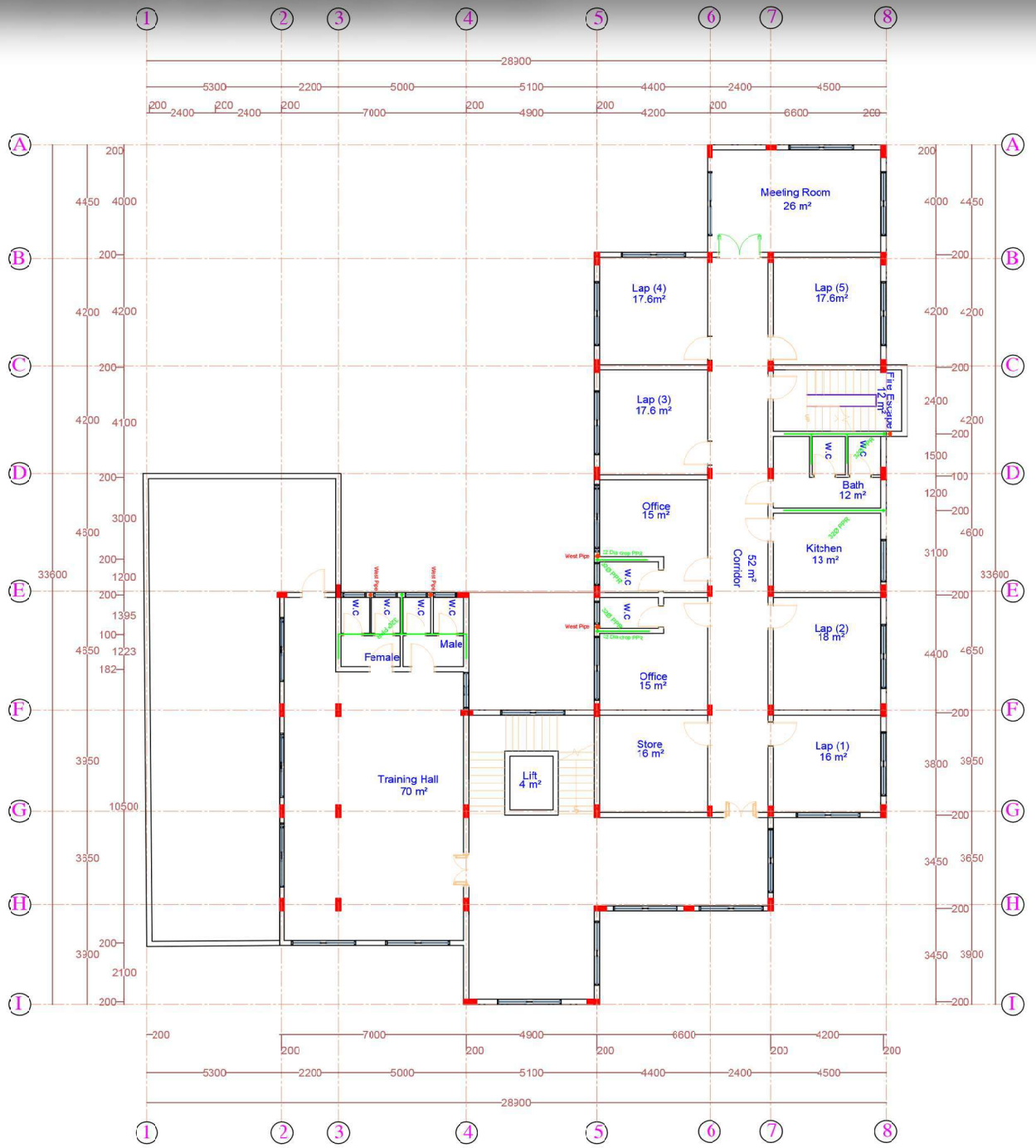

First Floor

MOON
CONSTRUCTION COMPANY

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Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

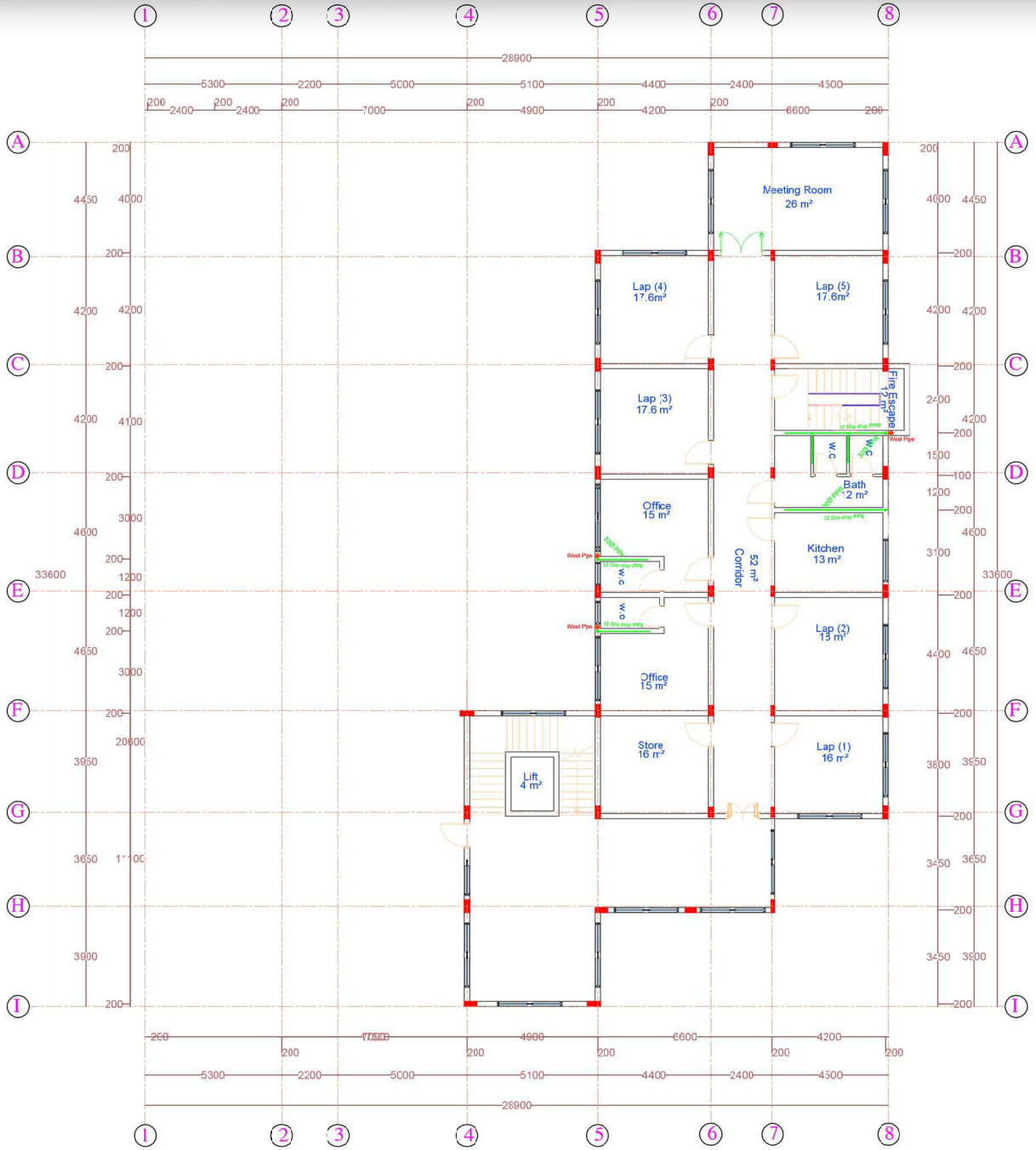
Project No	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

First Floor

Scale: A1 1:100 A3	Sheet number: P0.02

Project: PROPOSED BONKAY EXTENSION CENTER

Plumbi:



Second Floor

MOON
CONSTRUCTION COMPANY

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Implementation stage

Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

Second Floor

Scale: A1 1:100 A3	Sheet number: E0.03

			MOUNTING HEIGHT
A	BERKELEY 1LIGHT WALL BRACKET LIGHT FITTING	MICROMARK MM40567	1800mm
B	SAFETY PENDANT CONSISTING OF A CEILING VESSEL PENDANT LAMP	MICROMARK MM 18534	CEILING
E	SPHERICAL SCREW NECK FITTING IN WET AREAS	MICROMARK MM 18644	CEILING
W	1200mm. 1x36w SINGLE BATTEN FLOURESCENT FITTING	THORN PP 136	CEILING
W	1200mm, 1X36W WATER PROOF SINGLE FLOURESCENT FITTING	THORN LUES 136	CEILING
	5A 1 GANG 1 WAY MOULDED PLATE SWITCH FOR FLUSH MOUNTING AS BRASS	CRABTREE H20S11	1400mm
	5A 1 GANG 2 WAY MOULDED PLATE SWITCH FOR FLUSH MOUNTING AS BRASS	CRABTREE H20S12	1400mm
	5A 2 GANG 2 WAY MOULDED PLATE SWITCH FOR FLUSH MOUNTING AS BRASS	CRABTREE H20S22	1400mm
	5A 4 GANG 2 WAY MOULDED PLATE SWITCH FOR FLUSH MOUNTING AS BRASS	CRABTREE H20S24	1400mm
	13A SINGLE SOCKET OUTLET POINT AND PLATE AS BRASS	CRABTREE HO 1	300/1200mm
	13A TWIN SOCKET OUTLET POINT AND PLATE AS BRASS	CARBTREE HO 2	300/1200mm
	13A SINGLE SOCKET FOR AC AS BRASS	CARBTREE HSO1	2000mm
	Pell and Pell Bush	CRABTREE H20S22	1400mm
	DATA/VOICE OUTLET POINT AND PLATE FOR FLUSH MOUNTING AS BRASS	CRABTREE HTEL1MJ	300mm
	TV ANTENNAE COAXIAL POINT AND PLATE FOR FLUSH MOUNTING AS BRASS	CRABTREE HTV 2	300mm
	Electric Video Door Bell of Intercom system		1400mm
C	COOKER CONNECTION UNIT FOR FLUSH MOUNTING AND CAPABLE OF ACCOMMODATING UPTO 2x10 PVC INSULATED CONDUCTOR COVER PLATE AND CABLE CLAMP	CRABTREE 4506	300mm
	45A COOKER CONTROL UNIT INCORPORATING 13A SOCKET OUTLET PLATE AND PILOT LAMP	CRABTREE 4521/31	1400mm
	Air conditioner		2500mm
	Drain pipe for 8cm/D UPVC Running through the wall		UPVC
	SPN CONSUMER UNIT NUMBER OF WAYS AS INDICATED IN SCHEMATICS	SAPPHIRE	1800mm
	TPN DISTRIBUTION BOARD NUMBER OF WAYS AS INDICATED IN SCHEMATICS	SAPPHIRE	1800mm
	METER BOARD FABRICATED FROM 16 SWG MILD STEEL SHEET		

SA SECURITY ALARM CONTROL PANEL

FA FIRE ALARM CONTROL PANEL

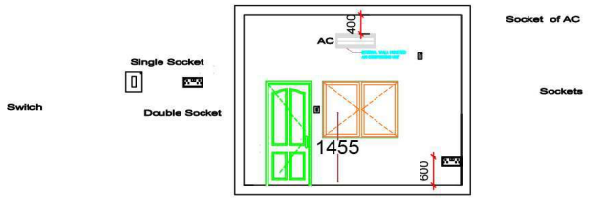
E BREAKGLASS - FIRE ALARM

FIRE ALARM SOUNDER

S SMOKE DETECTOR

C CLOSED CIRCUTE CAMERA

EXIT EMERGENCY EXIT SIGN



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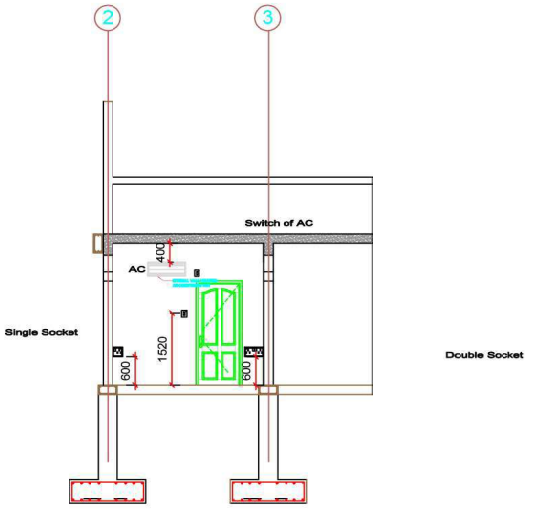

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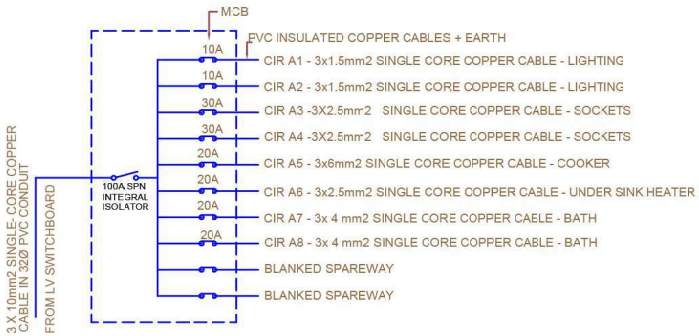

MOON CONSTRUCTION COMPANY

Notes:

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2- ALL DIMENSION MUST BE CHECKED AT SITE BEFORE CONSTRUCTION.

Implementation stage

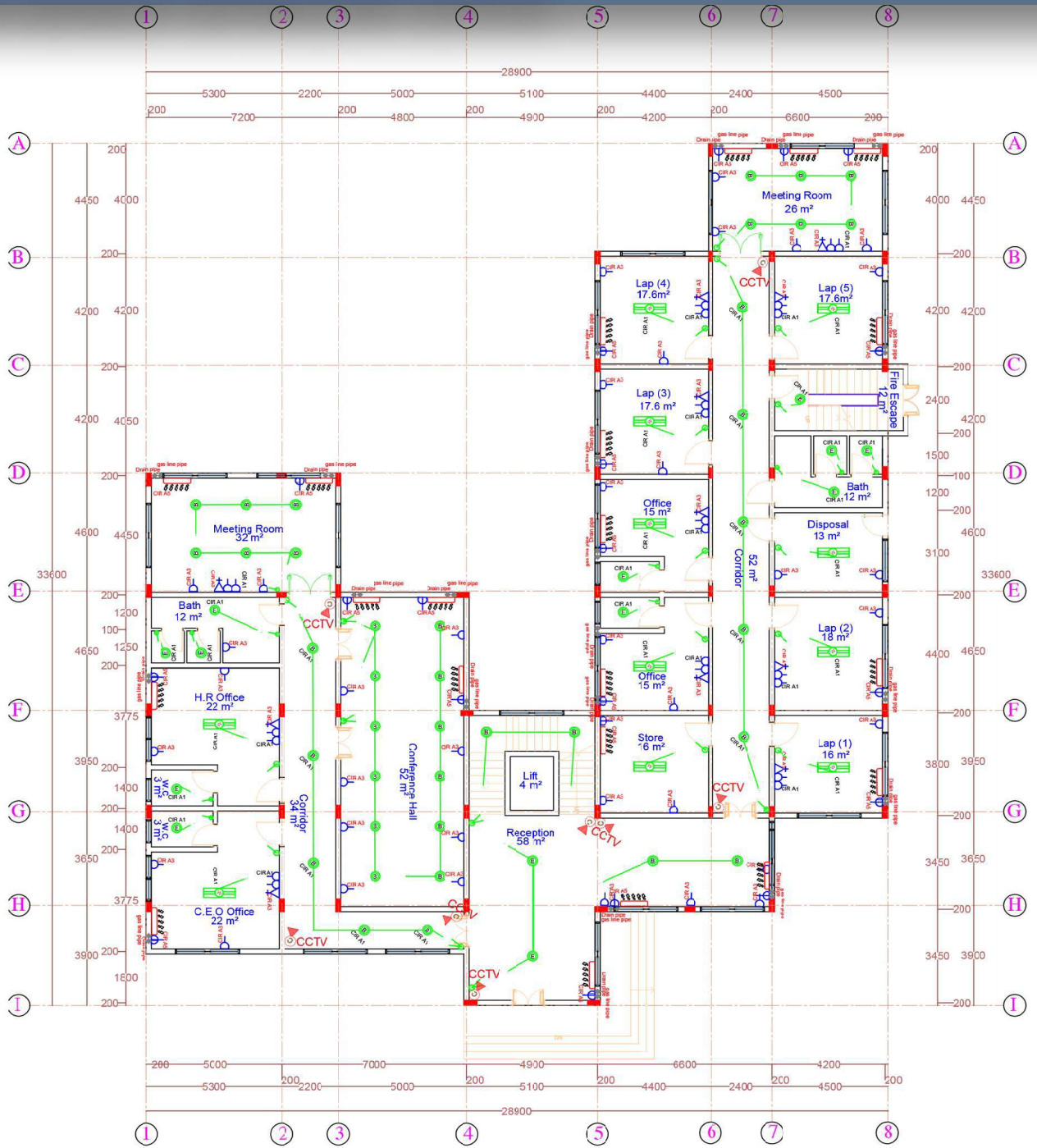
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No:	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

Electrical Lenged

Scale: A1 A3	1:100	Sheet number: E0.00



Ground Floor

MOON
CONSTRUCTION COMPANY

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Implementation stage
Audit Document

PROPOSED BONKAY EXTENSION CENTER

Project No:	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

Ground Floor

Scale: A1 A3	1:100	Sheet number: E0.01

MOON
CONSTRUCTION COMPANY

First Floor

MOON
CONSTRUCTION COMPANY

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Implementation stage
Audit Document

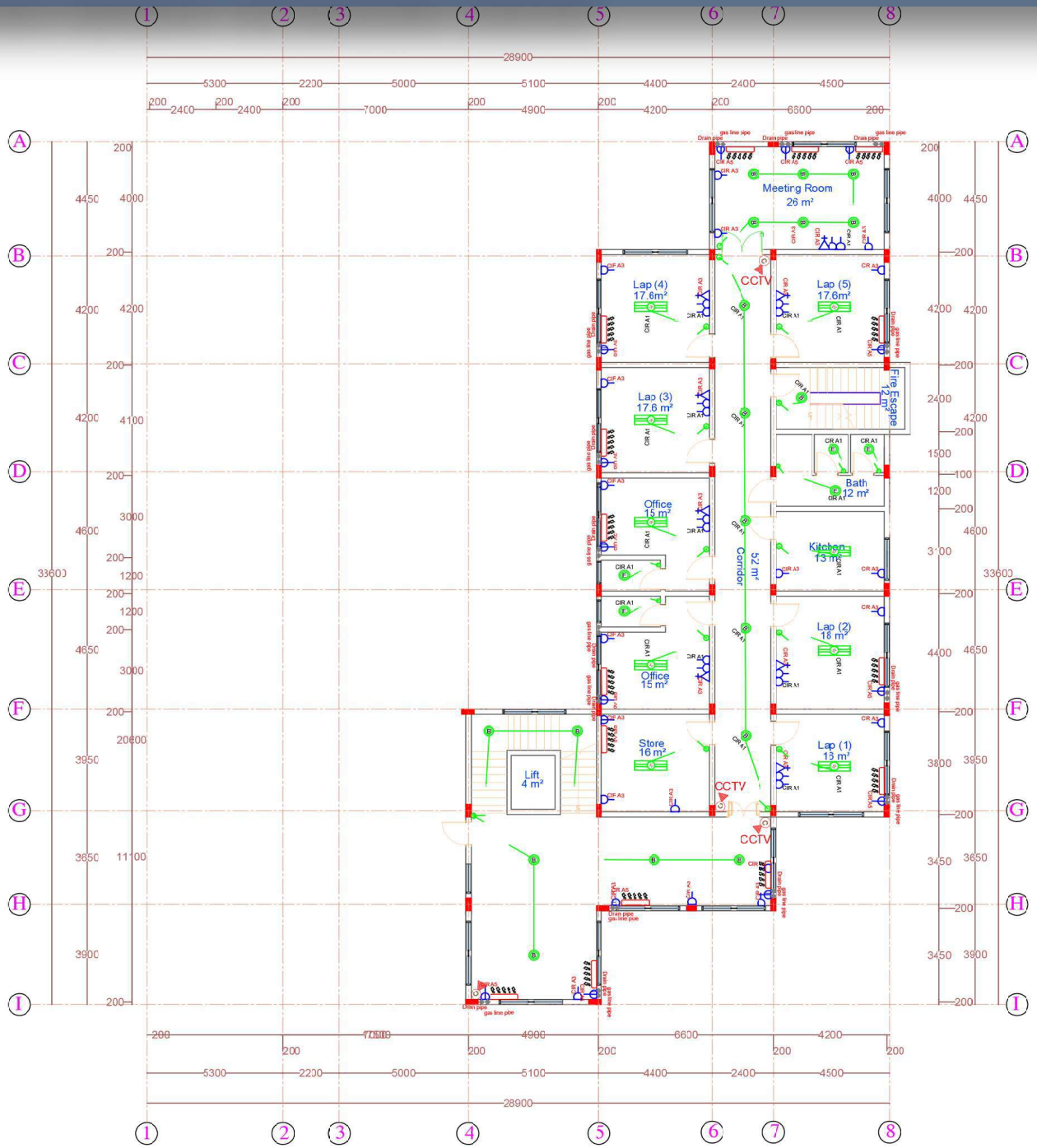
PROPOSED BONKAY EXTENSION CENTER

Project No	Drawn: A.ALI	Designed: A.ALI
Date: 22-06-2025	Checked: Eng:A.Badar	

First Floor

Scale: A1 1:100 A3	Sheet number: E0.02

MOON
CONSTRUCTION COMPANY



Second Floor

MOON
CONSTRUCTION COMPANY

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Audit Document

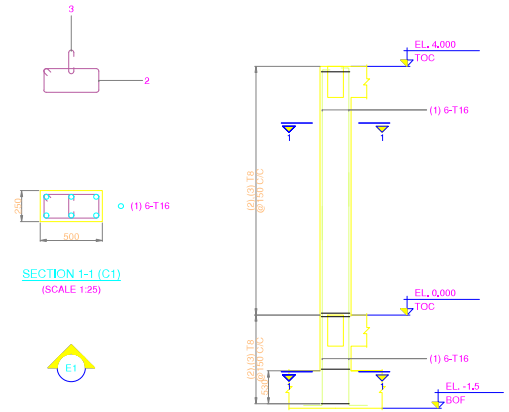
PROPOSED BONKAY EXTENSION CENTER

Project No:	Drawn: Eng:A.Badar	Designed: Eng:A.Badar
Date: 22-06-2025	CHECKED: A ALI	

Second Floor

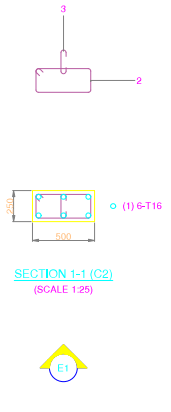
Scale: A1 1:100 A3	Sheet Number: P0.03


MOON
CONSTRUCTION COMPANY
CONTACT:



SECTION 1-1 (C1)
(SCALE 1:25)

DETAIL OF COLUMN C1
(SCALE 1:50)



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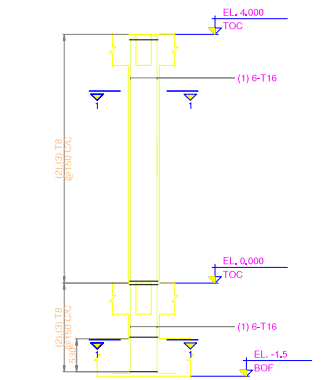
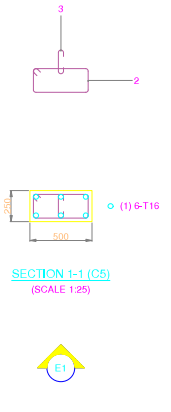


DETAIL OF COLUMN C2
(SCALE 1:50)



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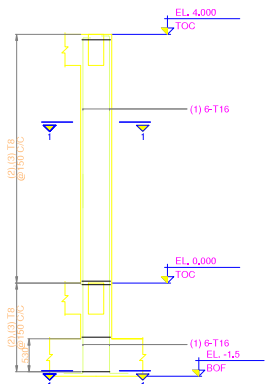

DETAIL OF COLUMN C5
(SCALE 1:50)

TYPICAL DETAIL OF COLUMN 7NO.

ELEMENT	BAR MARK	LEVEL	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
							A	B	C	D	E	R
C2	B1	1	3	16		3470	300	3204				48
	B2	1	3	16		4010	300	3744				48
	B3	2	3	16		3025	300	2148	73	12	540	48
	B4	2	3	16		2485	300	1608	73	12	540	48
	S5L	1	7	8		1455	440	190				32
	S6L	1	7	8		400	190					
	S7L	2	28	8		1455	440	190				32
	S8L	2	28	8		400	190					

SUMMARY : C2

BAR DIA	8	16	TOTAL
LGT (M)	67	41	108
WT (KG)	29	62	91

BAR BENDING SCHEDULE

NOTES

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10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT

JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

COLUMN RC DETAILS

PG No.

DRG No.

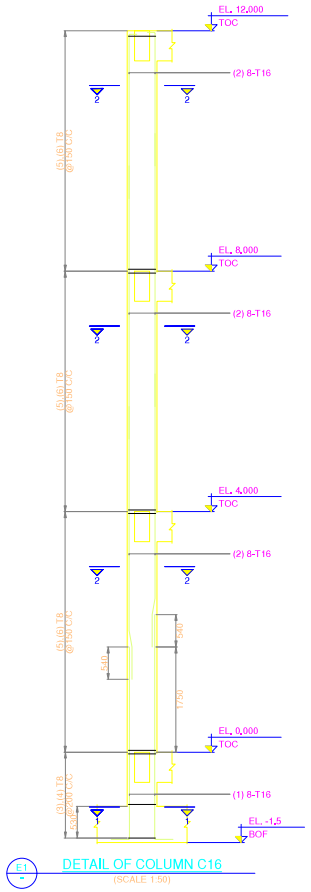
FILE No.

SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			



SECTION 1-1 (C16)
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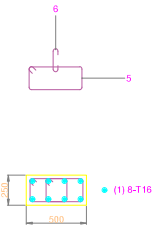

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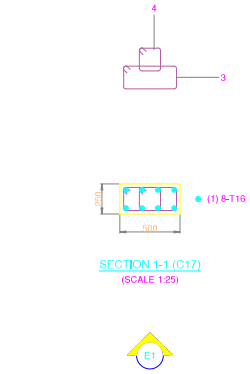

SECTION 1-1 (C17)
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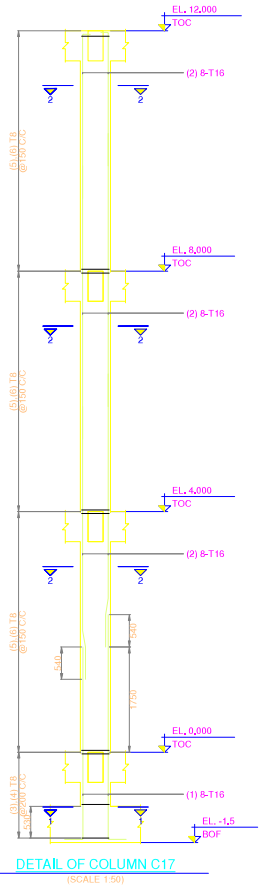
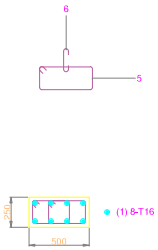
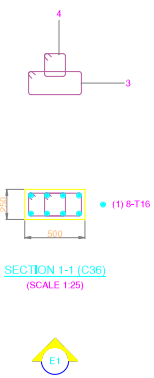
DETAIL OF COLUMN C16
(SCALE 1:50)



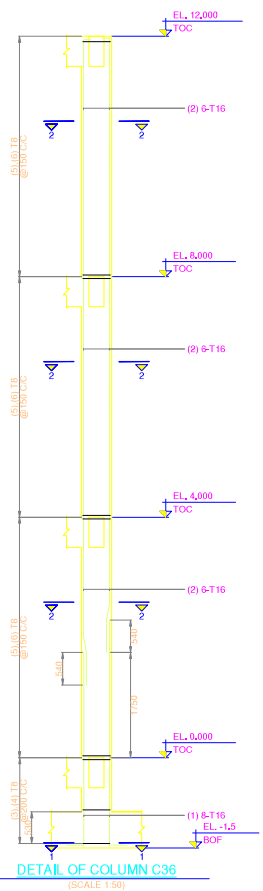


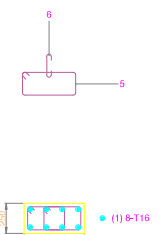
SECTION 2-2 (C17)
(SCALE 1:25)



SECTION 1-1 (C36)
(SCALE 1:25)

DETAIL OF COLUMN C17
(SCALE 1:50)





SECTION 2-2 (C36)
(SCALE 1:25)

DETAIL OF COLUMN C36
(SCALE 1:50)

TYPICAL DETAIL OF COLUMN 29NO.

ELEMENT	BAR MARK	LEVEL	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
							A	B	C	D	E	R
C7	B1	1	3	16		3470	300	3204				48
	B2	1	3	16		4010	300	3744				48
	B3	2	3	16		4545	540	73	12	3928		
	B4	2	3	16		4545	540	73	12	3928		
	B5	3	3	16		3025	300	2148	73	12	540	48
	B6	3	3	16		2485	300	1608	73	12	540	48
	S7L	1	7	8		1455	440	190				32
	S8L	1	7	8		400	190					
	S9L	2	28	8		1455	440	190				32
	S10L	2	28	8		400	190					
	S11L	3	28	8		1455	440	190				32
	S12L	3	28	8		400	190					

SUMMARY : C7

BAR DIA	8	16	TOTAL
LGT (M)	120	69	189
WT (KG)	51	104	155

NOTES

1. This drawing is to be read in conjunction with all other relevant Architectural/Structural drawings.
2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1200mm and MUST be to safe ground bearing pressure of 100KN/M² minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm² (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT

JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

COLUMN RC DETAILS

PG No.

DRG No.

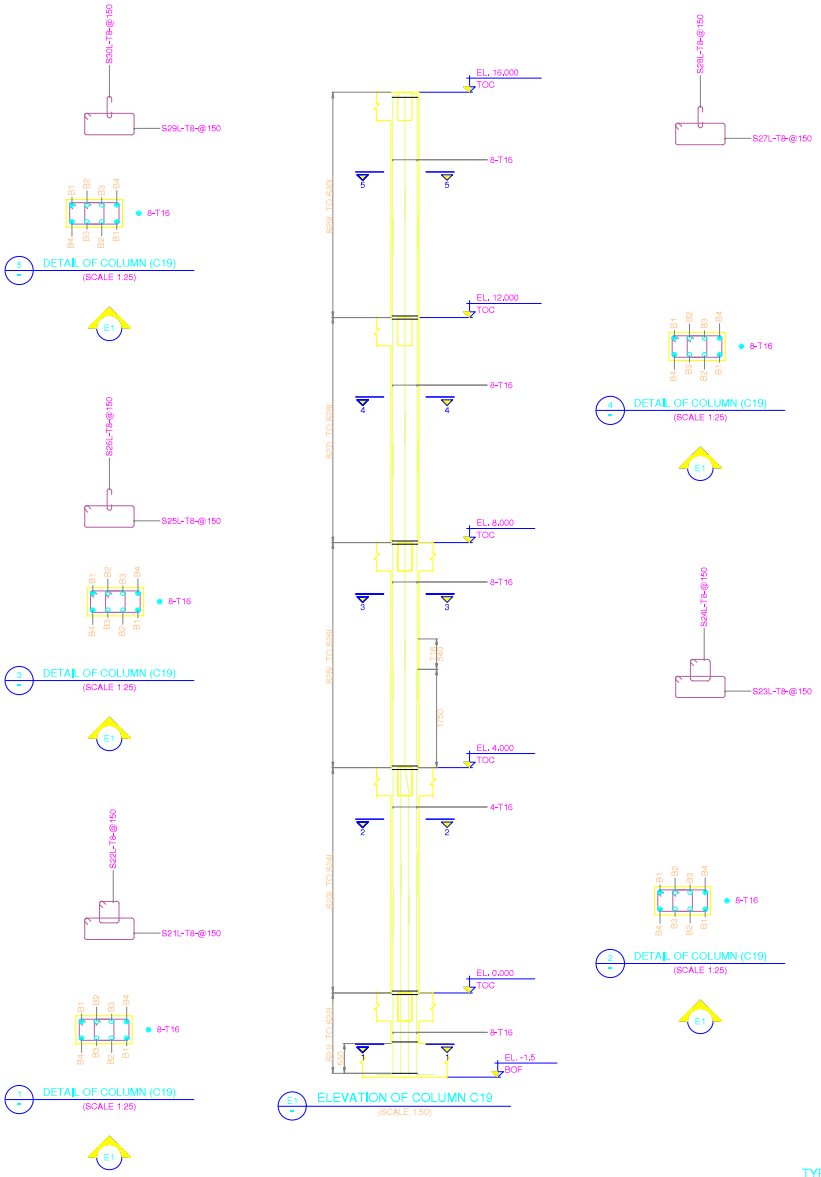
FILE No.

SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			



ELEMENT	BAR MARK	LEVEL	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS							
							A	B	C	D	E	F	G	R
C19	B1	1	4	16		4110	300	3858						64
	B2	1	2	16		3470	300	3202						48
	B3	1	2	16		3960	300	3694						48
	B4	1	2	16		3455	300	3202						64
	B5	2	1	16		4005	720	98	16	3184				
	B6	2	1	16		4725	720	98	16	3904				
	B7	2	1	16		4730	540	73	12	1754	430	71	2290	
	B8	2	1	16		2295	540	73	12	1678				
	B9	2	1	16		5265	720	98	16	4444				
	B10	2	1	16		2835	540	73	12	2218				
	B11	2	1	16		3650	540	73	12	1214	430	71	1750	
	B12	2	1	16		4545	720	98	16	3724				
	B13	3	2	16		4545	540	98	16	3904				
	B14	3	1	16		4545	540	73	12	3928				
	B15	3	2	16		4545	540	98	16	3904				
	B16	3	1	16		4545	540	73	12	3928				
	B17	4	3	16		4545	540	73	12	3928				
	B18	4	3	16		4545	540	73	12	3928				
	B19	5	3	16		3025	300	2148	73	12	540			48
	B20	5	3	16		2485	300	1608	73	12	540			48
	S21L	1	7	8		1455	440	190						32
	S22L	1	7	8		900	158	194						32
	S23L	2	28	8		1455	440	190						32
	S24L	2	28	8		900	158	194						32
	S25L	3	28	8		1455	440	190						32
	S26L	3	28	8		400	190							
	S27L	4	28	8		1455	440	190						32
	S28L	4	28	8		400	190							
	S29L	5	28	8		1455	440	190						32
	S30L	5	28	8		400	190							

SUMMARY : C19

BAR DIA	8		16	TOTAL
LGT (M)	244		225	469
WT (KG)	101		338	439

TYPICAL DETAIL OF COLUMN 10NO.

NOTES

1. This drawing is to be read in conjunction with all other relevant Architectural/Structural drawings.
2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1200mm and MUST be to safe ground bearing pressure of 100KN/M² minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm² (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

COLUMN RC DETAILS

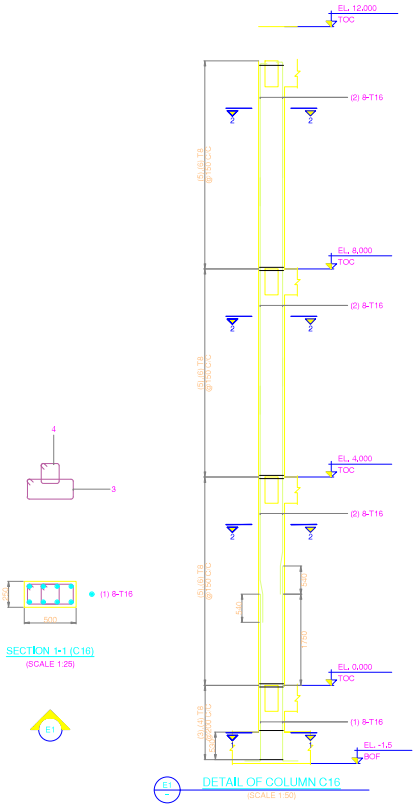
PG No. | DRG No. | FILE No.

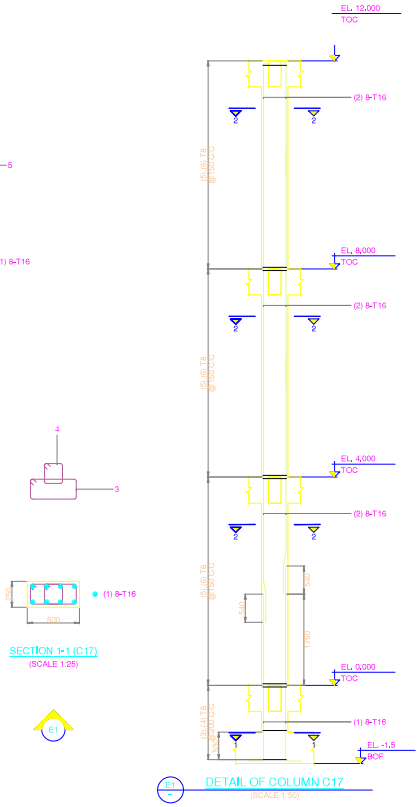
SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

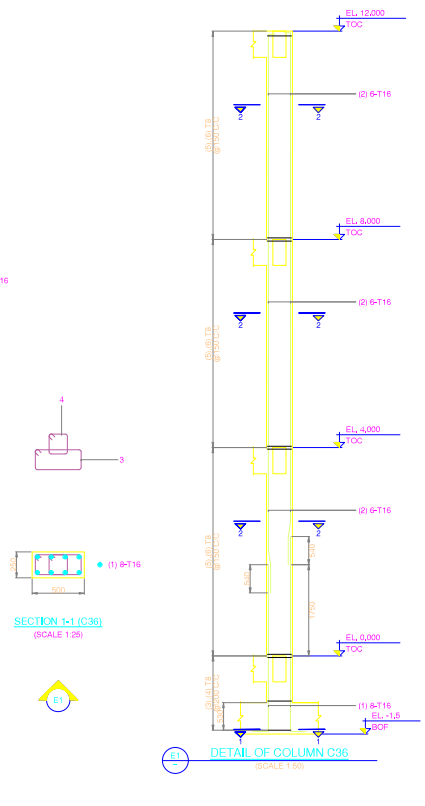
APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			





TYPICAL DETAIL OF COLUMN 29NO.



ELEMENT	BAR MARK	LEVEL	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
							A	B	C	D	E	R
C36	B1	1	1	16		3635	300	3382				64
	B2	1	1	16		3775	300	1028	73	12	2470	64
	B3	1	2	16		1925	300	1672				64
	B4	1	1	16		3455	300	3202				64
	B5	1	1	16		3235	300	1028	73	12	1930	64
	B6	1	2	16		4175	300	3922				64
	B7	2	3	16		4545	540	98	16	3904		
	B8	2	3	16		4545	540	98	16	3904		
	B9	3	3	16		4545	540	73	12	3928		
	B10	3	3	16		4545	540	73	12	3928		
	B11	4	3	16		3025	300	2148	73	12	540	48
	B12	4	3	16		2485	300	1608	73	12	540	48
	S13L	1	6	8		1455	440	190				32
	S14L	1	6	8		890	158	190				32
	S15L	2	26	8		1455	440	190				32
	S16L	2	26	8		400	190					
	S17L	3	26	8		1455	440	190				32
	S18L	3	26	8		400	190					
	S19L	4	26	8		1455	440	190				32
	S20L	4	26	8		400	190					

SUMMARY : C36

BAR DIA	8		16	TOTAL
LGT (M)	174		103	277
WT (KG)	73		155	228

NOTES

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2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1200mm and MUST be to safe ground bearing pressure of 100KN/M² minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm² (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

COLUMN RC DETAILS

PG No. | DRG No. | FILE No.

SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			

12M				M25 : Fe460 , COVER = 30MM 
TO				LINKS
16M				T8 @ 150 
6M			M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 
TO			LINKS	LINKS
12M			T8 @ 150  8-T16	T8 @ 150  8-T16
4M		M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 
TO		LINKS	LINKS	LINKS
8M		T8 @ 150  8-T16	T8 @ 150  8-T16	T8 @ 150  8-T16
0M	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 
TO	LINKS	LINKS	LINKS	LINKS
4M	T8 @ 150  6-T16	T8 @ 150  6-T16	T8 @ 150  8-T16	T8 @ 150  8-T16
-1.5M	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 	M25 : Fe460 , COVER = 30MM 
TO	LINKS	LINKS	LINKS	LINKS
0M	T8 @ 150  6-T16	T8 @ 150  6-T16	T8 @ 200  8-T16	T8 @ 200  8-T16
COLUMN MARKED	C1, C2, C3, C4, C5, C10, C15	C6, C7, C8, C9, C11, C12, C13, C14, C20	C16, C17, C21, C22, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C44, C45, C46, C47, C48, C49, C52, C53	C18, C19, C23, C24, C42, C43, C50, C51, C54, C55

COLUMN AND WALL SCHEDULE

(SCALE 1:25)

12M	M25 Fe460	SIZE			250 X 500
TO		STEEL			8T16
16M		LINKS			T8@150 C/C
8M	M25 Fe460	SIZE		250 X 500	250 X 500
TO		STEEL		8-T16	8-T16
12M		LINKS		T8@150 C/C	T8@150 C/C
4M	M25 Fe460	SIZE	250 X 500	250 X 500	250 X 500
TO		STEEL	6-T16	8-T16	8-T16
8M		LINKS	T8@150 C/C	T8@150 C/C	T8@150 C/C
0M	M25 Fe460	SIZE	250 X 500	250 X 500	250 X 500
TO		STEEL	6-T16	8-T16	8-T16
4M		LINKS	T8@150 C/C	T8@150 C/C	T8@150 C/C
-1.5M	M25 Fe460	SIZE	250 X 500	250 X 500	250 X 500
TO		STEEL	6-T16	8-T16	8-T16
0M		LINKS	T8@150 C/C	T8@200 C/C	T8@200 C/C
COLUMN MARKED		C1, C2, C3, C4, C5, C10, C15	C6, C7, C8, C9, C11, C12, C13, C14, C20	C16, C17, C21, C22, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C44, C45, C46, C47, C48, C49, C52, C53	C18, C19, C23, C24, C42, C43, C50, C51, C54, C55

COLUMN SCHEDULE

NOTES

1. This drawing is to be read in conjunction with all other relevant Architectural/Structural drawings.
2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1200mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE

DRAWING TITLE

COLUMN RC DETAILS

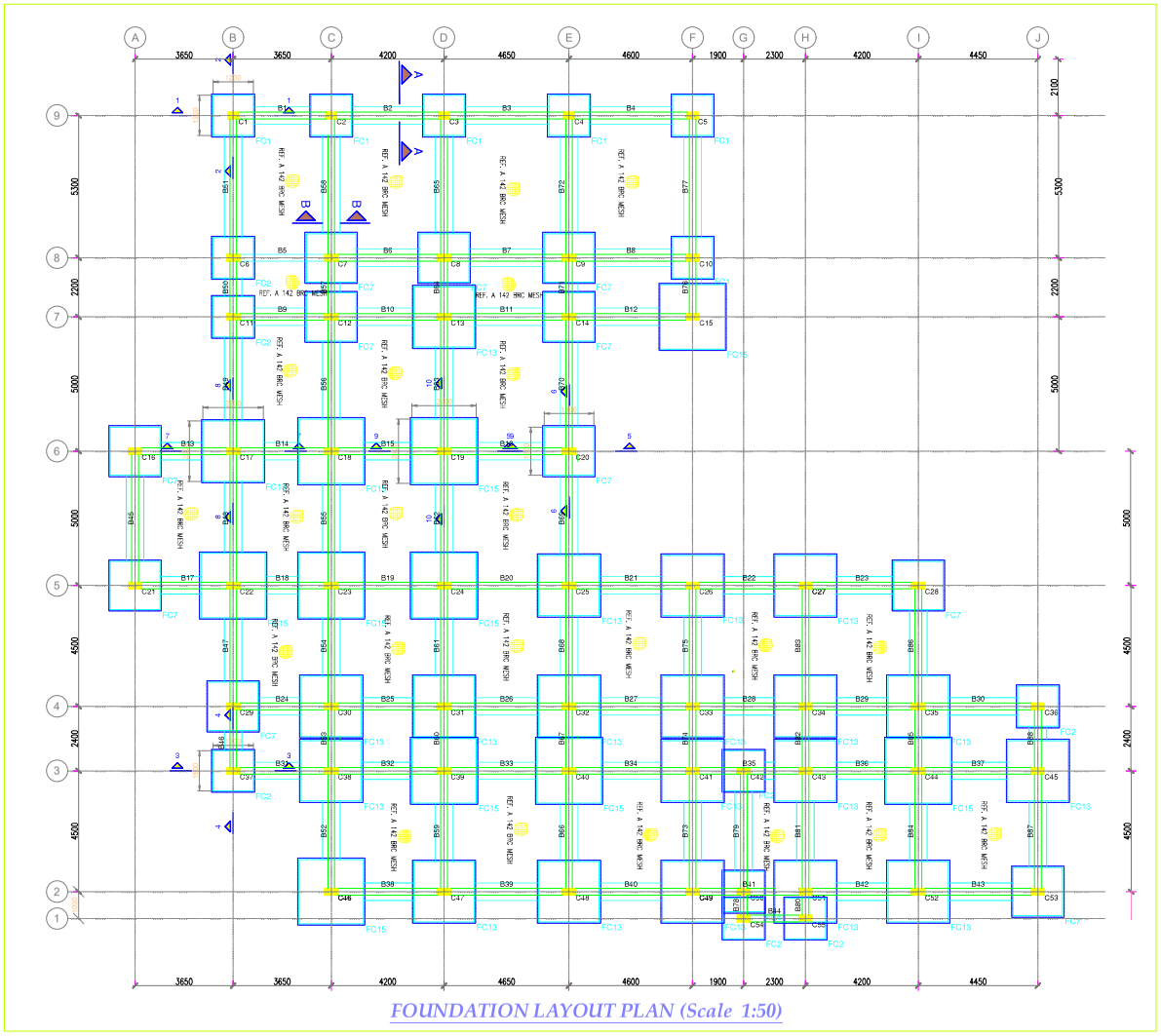
PG No. | DRG No. | FILE No.

SCALE(S) 1:50, 1:25

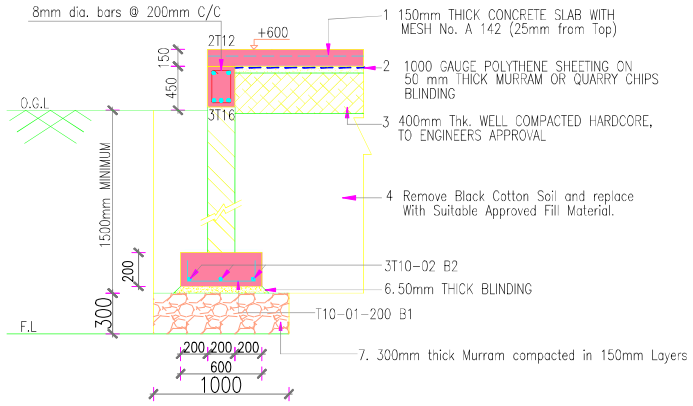
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

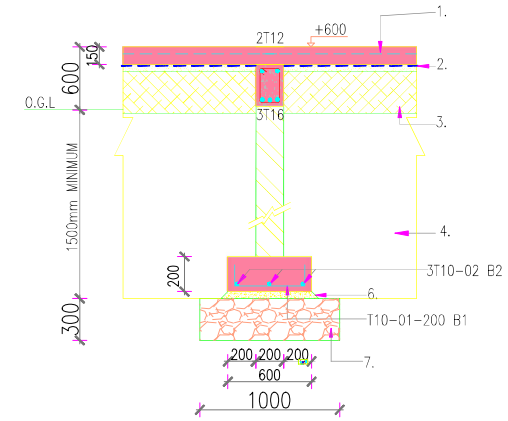
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			



FOUNDATION LAYOUT PLAN (Scale 1:50)



SECTION A--A
1:25



SECTION B--B
1:25

NOTES

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2. The Contractor to confirm all dimensions on site before commencing the works.
3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm, Columns 30mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1500mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200 mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE
BAIDOA-SOMALIA

DRAWING TITLE

FOUNDATION LAYOUT, STRIP FOOTING & PLINTH BEAM
RC DETAILS.

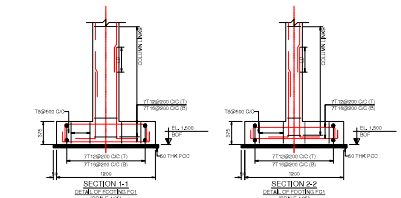
C1/Sfb | | |

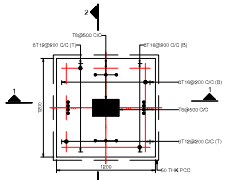
PG No. 01/06 | DRG No. | FILE No.

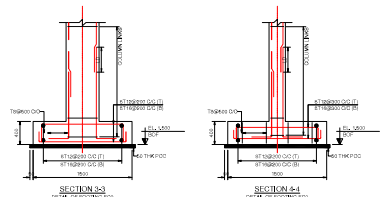
SCALE(S) 1:50, 1:25 | FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

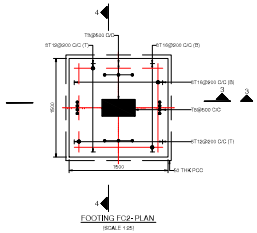
APPROVED BY

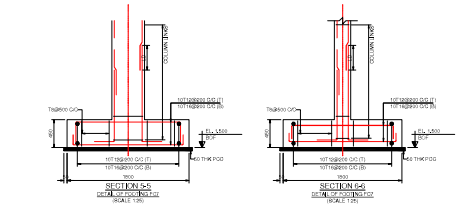
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			

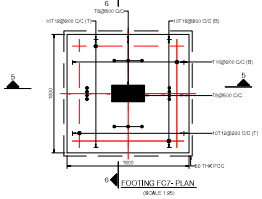


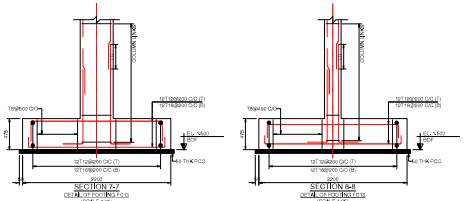


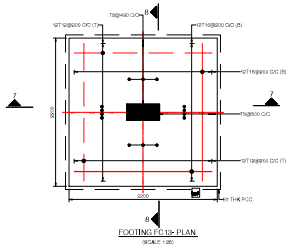


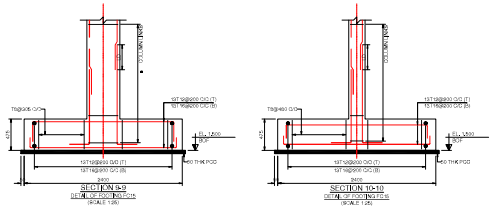


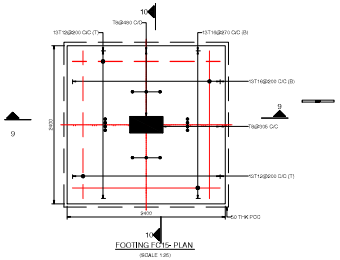












ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
FC1	B1	6	16		1610	150	1406	150			64
	B2	6	16		1610	150	1406	150			64
	T3	6	12		1880	270	1408	270			48
	T4	6	12		1880	270	1408	270			48
	S5	16	8		500	289					
	S6	12	8		500	289					

SUMMARY : FC2

BAR DIA	8	12	16	TOTAL
LGT (M)	14	22	20	56
WT (KG)	6	20	30	56

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
FC7	B1	8	16		1610	150	1706	150			64
	B2	8	16		1960	150	1754	150			64
	T3	8	12		2330	345	1708	345			48
	T4	8	12		2380	345	1758	345			48
	S5	16	8		575	361					
	S6	18	8		575	361					

SUMMARY : FC7

BAR DIA	8	12	16	TOTAL
LGT (M)	10	30	31	88
WT (KG)	8	33	49	90

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
FC13	B1	10	16		2330	150	2154	150			64
	B2	9	16		2330	150	2154	150			64
	T3	9	12		2880	395	2158	395			48
	T4	9	12		2880	395	2158	395			48
	S5	24	8		625	411					
	S6	18	8		625	411					

SUMMARY : FC13

BAR DIA	8	12	16	TOTAL
LGT (M)	26	52	45	123
WT (KG)	10	46	71	127

ELEMENT	BAR MARK	BAR NOS.	BAR DIA.	BAR SHAPE	CUTTING LENGTH (MM)	DIMENSIONS					
						A	B	C	D	E	R
FC15	B1	13	16		2510	150	2304	150			64
	B2	10	16		2510	150	2304	150			64
	T3	9	12		3030	395	2308	395			48
	T4	9	12		3030	395	2308	395			48
	S5	32	8		625	411					
	S6	18	8		625	411					

SUMMARY : FC15

BAR DIA	8	12	16	TOTAL
LGT (M)	31	54	58	143
WT (KG)	12	48	91	151

TOTAL QUANTITY

BAR DIA	8	12	16	TOTAL
LGT (M)	106	188	174	468
WT (KG)	42	167	271	480

NOTES

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3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20
   Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm, Columns 30mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1500mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200 mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED BONKAY EXTENSION CENTRE
BAIDOA-SOMALIA

DRAWING TITLE

COLUMN FOOTINGS
RC DETAILS.

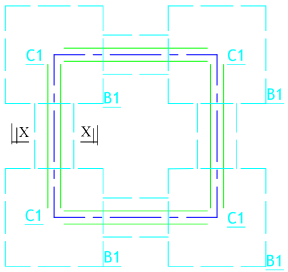
C1/Sfb

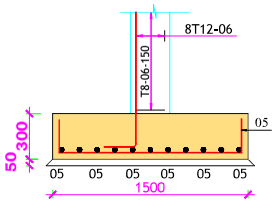
PG No. 01/06 | DRG No. | FILE No.

SCALE(S) 1:50, 1:25 | FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

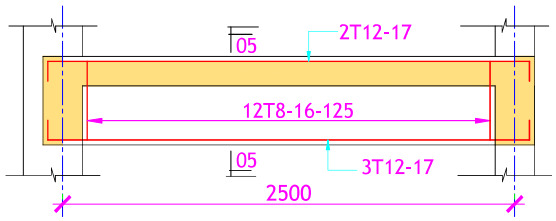
APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			

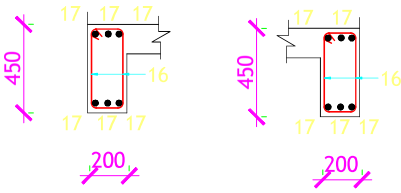




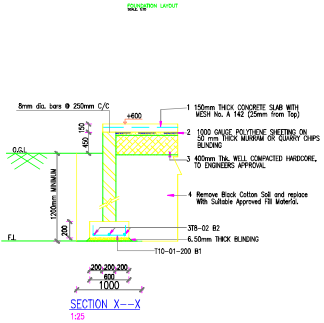
BASE SECTION A---A (Scale 1:25)



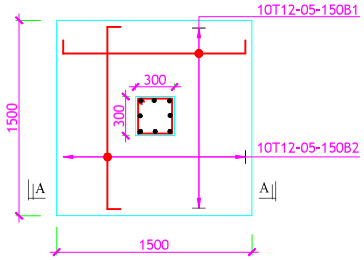
BEAM RC DETAILS (1:25) (450 x 200mm) 8No.



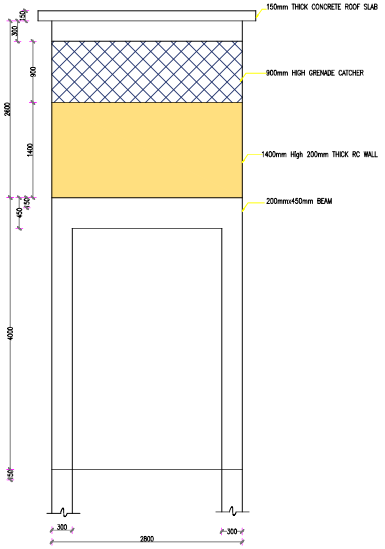
SECTION 05--05

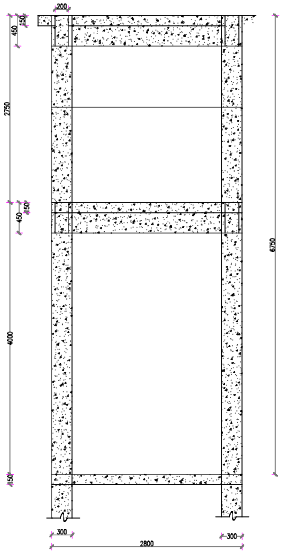


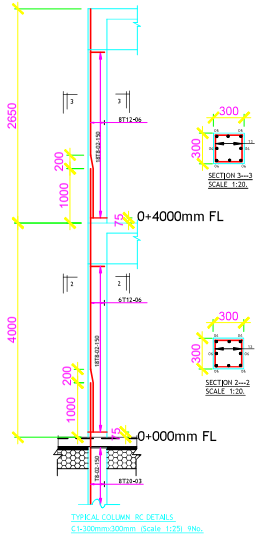
SECTION X--X
1:25

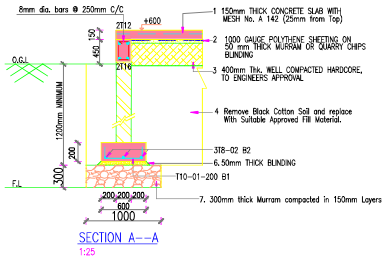


TYPICAL COLUMN BASE RC DETAILS
B1-1500x1500x300mm SCALE (1:25) 4No.

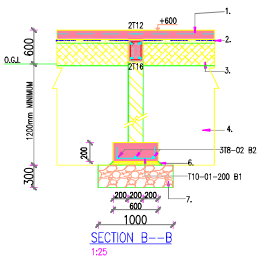








SECTION A--A
1:25



SECTION B--B
1:25

NOTES

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3. Figured dimensions only to be taken and all dimensions are in millimetres unless stated otherwise.
4. Structural Concrete to be class 25/20 Concrete cover to reinforcement including links;
   Foundations = 50mm Beams = 25mm
   Slabs = 20mm
5. Reinforcement steel to be;
   Y-square twisted high yield bars to BS 4461.
   R-round mild bars to BS 4449.
6. All Reinforcement steel must be approved by the Structural Engineer before casting.
7. Foundation depth to be determined on site to be a minimum of 1200mm and MUST be to safe ground bearing pressure of 100KN/M^2 minimum.
8. Blinding concrete to be 1:4:8 mix.
9. All 200mm thick masonry walls are load bearing and with compressive strength of 7.0 N/mm^2 (Class A1).
10. All excavations to be inspected and approved by the Structural Engineer.

ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED 4M HIGH WATCH TOWER

DRAWING TITLE

FOUNDATION LAYOUT, FOUNDATION DETAILS , COLUMN BASES COLUMN & BEAM RC DETAILS.

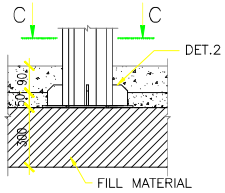
C1/Sfb		
PG No. 01/06	DRG No. FILE No.	

SCALE(S) 1:50, 1:25

FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

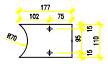
APPROVED BY

	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			

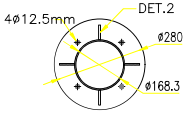


DETAIL 1
SCALE. 1:5

DETAIL 2
Thickness=6mm
SCALE. 1:5

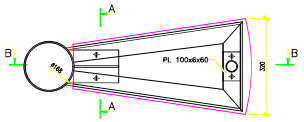


DETAIL 4
Thickness=6mm
SCALE. 1:5



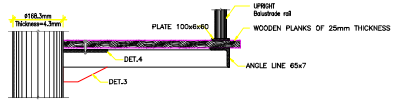
MODULAR TREAD SUPPORT
RING–12mm thick, fillet weld on main CHS Column 6mm weld all round
SCALE. 1:5

DETAIL 3
Thickness=6mm
SCALE. 1:5

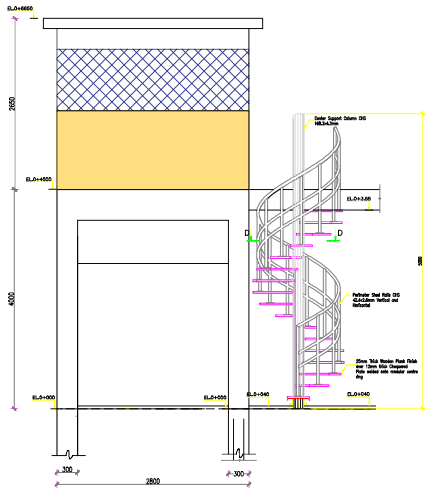


TREAD PLAN VIEW
SCALE 1:5

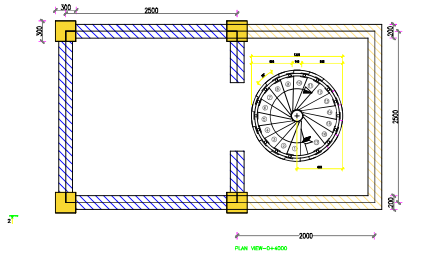
SECTION A–A
SCALE. 1:5

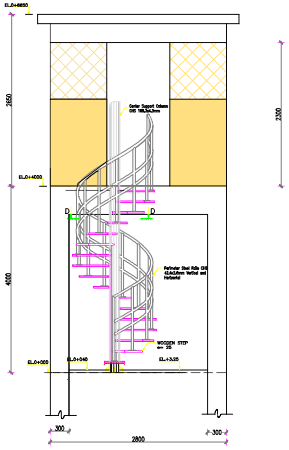


SECTION B–B
SCALE. 1:5

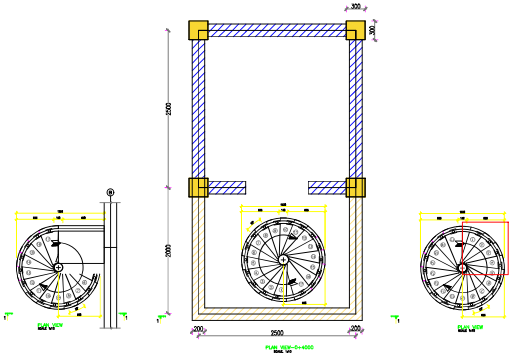


ELEVATION 2–2





ELEVATION 1–1



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ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE
PROPOSED WATCH TOWER

DRAWING TITLE
STAIRCASE DETAILS

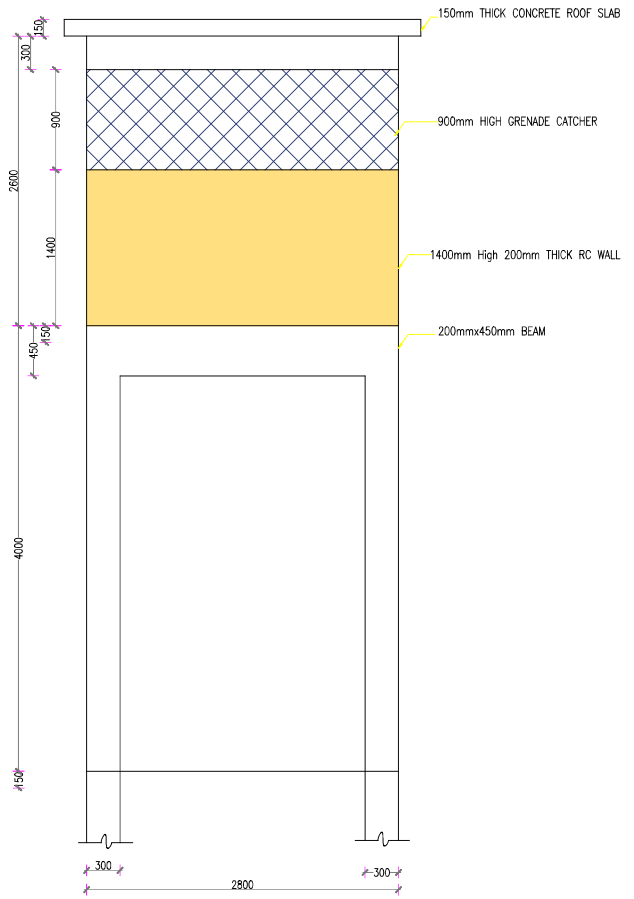
C1/Sfb | PG No. 04/06 | DRG No. FILE No.

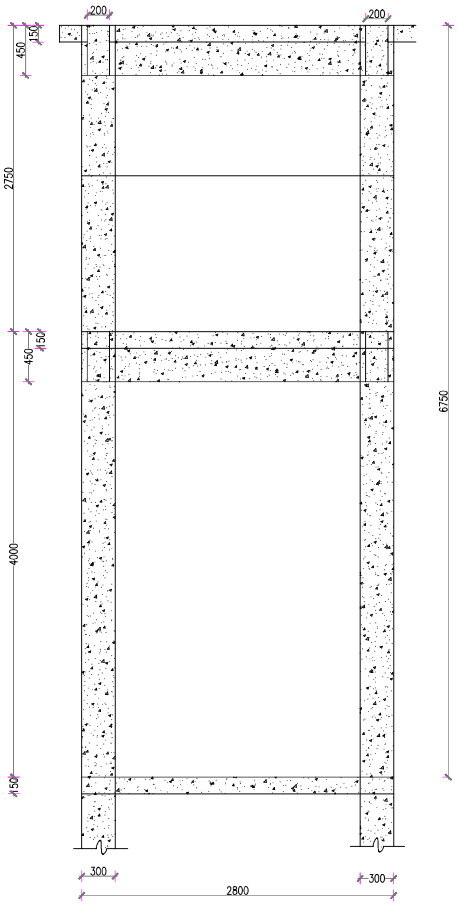
SCALE(S) 1:50, 1:25

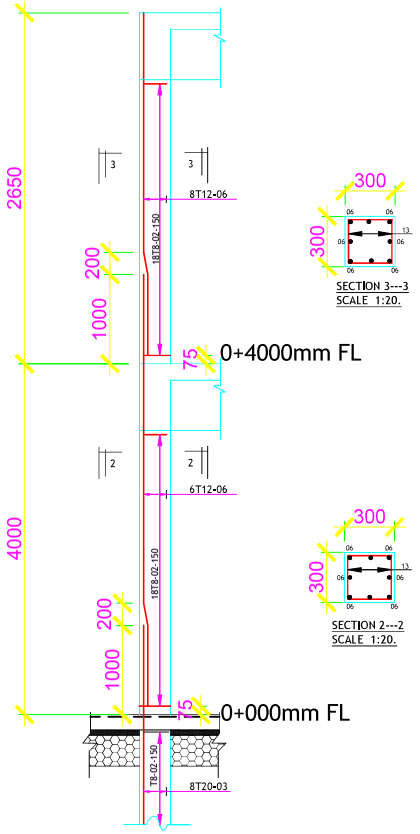
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

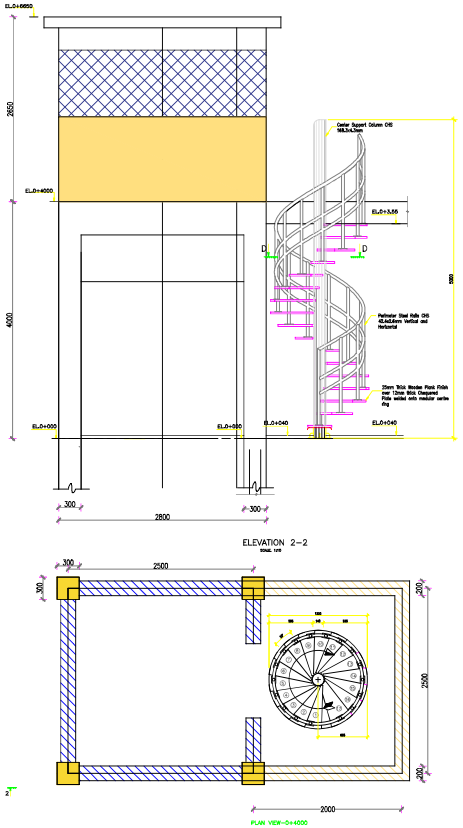
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			







TYPICAL COLUMN RC DETAILS
C1•300mmx300mm (Scale 1:25) 9No.



NOTES

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ISSUES

DATE	TO	APPLICATION	

REVISIONS

	DATE	BY	DESCRIPTIONS	GRP. LDR.	C.S. ENG.

REFERENCE DRAWINGS

No.	DESCRIPTIONS

CLIENT | JOB No.

PROJECT TITLE

PROPOSED WATCH TOWER

DRAWING TITLE

ELEVATIONS AND SECTIONS

C1/Sfb

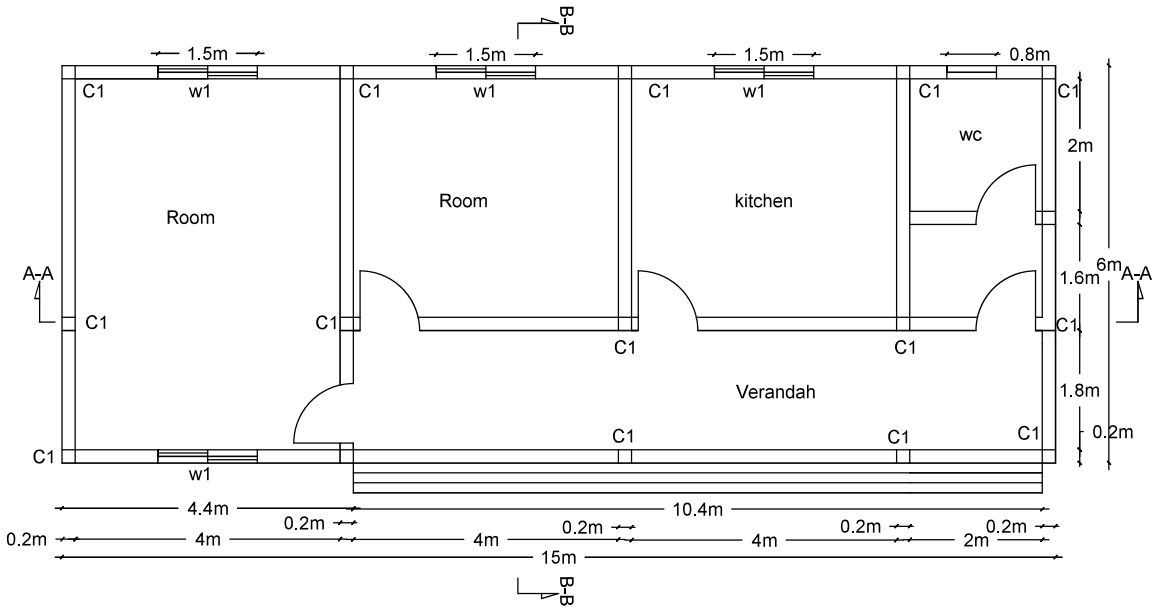
PG No. 03/06 | DRG No. FILE No.

SCALE(S) 1:50, 1:25

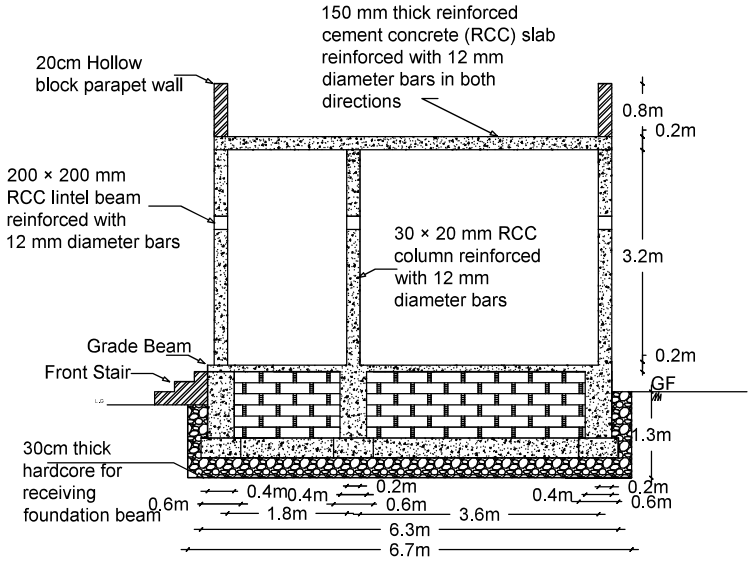
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING

APPROVED BY

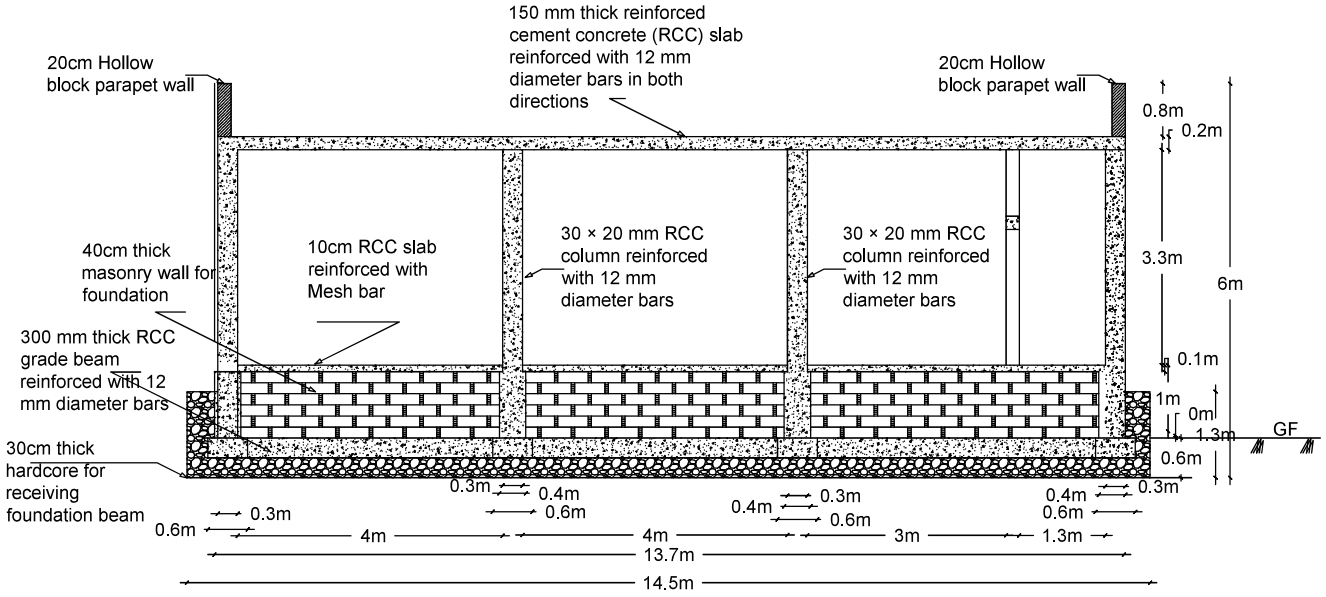
	NAME	SIGNATURE	DATE
DRAWN			
DESIGN			
SUPT. ENG.			
SNR. P. SUPT. ENG.			



SECURITY ROOM LAYOUT



SECTION B-B



SECTION A-A