

STRUCTURAL CHECKER'S CERTIFICATE

for structural design compliance - category A1

1. I *Ahmed Zuhal Zaeem* being a registered checker, hereby certifies that I have in accordance with Male' Planning Regulation and other applicable regulations relevant to planning, design and construction of buildings set out by the Government Authorities, have carried out an evaluation and review of the drawings of the building works attached and to the best of my knowledge and belief the drawings do not show any incompliance in the design of the building to be erected or by the works carried out in accordance with those drawings.
2. In arriving at my conclusion , I confirm that I have reviewed and checked the design in accordance with the building regulations using the following criteria:-
 - a. Codes of practice adopted in the design;
 - b. Including wind load, construction load or dynamic load, (if applicable) checked;
 - c. Standards and specifications of structural elements;
 - d. Structural design concept and identification of the key structural elements;
 - e. Structural analysis and design of all key structural elements including foundation systems;
 - f. Stability of structural frame;
 - g. Structural detailing;
 - h. Others specify.....

Plot Name/No: *Indoor Gym*

Name of Engineer: *Zuhal Zaeem*


City/Atoll/Island: *B. Kendhoo*

Date: *21-September- 2023*

Type of Building (use): *Residential*

Checker's Reg. Number: *BPR2022035A1*

Plot Owner's Name:

Checker's Signature: 



Official Stamp of the
Registered Structural Checker

FOR OFFICIAL USE ONLY

Building Permit No.:	Local Authority's Stamp
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ARCHITECTURAL CHECKER'S CERTIFICATE

for architectural design compliance - category B1

1. I, **MARIYAM LAYANA MOHAMED**, being a registered checker, hereby certifies that I have in accordance with Male' Planning Regulation and other applicable regulations relevant to planning, design and construction of buildings set out by the Government Authorities, have carried out an evaluation and review of the drawings of the building works attached and to the best of my knowledge and belief the drawings do not show any incompliance in the design of the building to be erected or by the works carried out in accordance with those drawings.
2. In arriving at my conclusion, I confirm that I have reviewed and checked the design in accordance with the relevant regulations using the following criteria:-
 - a. rules and regulations set out by the authorities in relation to building design and construction;
 - b. codes of practice adopted in the design;
 - c. standards and specifications of materials;
 - d. architectural design concept;
 - e. architectural detailing;
 - f. appropriate checklists set out by the authorities (included with this Certificate);
 - g. others specify

Plot Name/No: **INDOOR GYM**

Name of Checker: **MARIYAM LAYANA MOHAMED**

City/Atoll/Island: **B. KENDHOO**

Checker Reg. Number: **BPR2022031B1**

Type of Building: **COMMERCIAL**

Date Checked: **21 SEPTEMBER 2023**

Plot Owner's Name:

Checker's Signature: 

Name of Design Engineer: **FATHMATH ISHA**

Architect's Reg. Number: **DPR 2019 059 LA**



Official Stamp of the
Registered Architectural Checker

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Building Permit No.:

Local Authority's Stamp

PROPOSED TWO STOREY GYM
BUILDING AT B. KENDHOO

ARCHITECTURAL & STRUCTURAL DRAWINGS

CLIENT: KENDHOO
COUNCIL

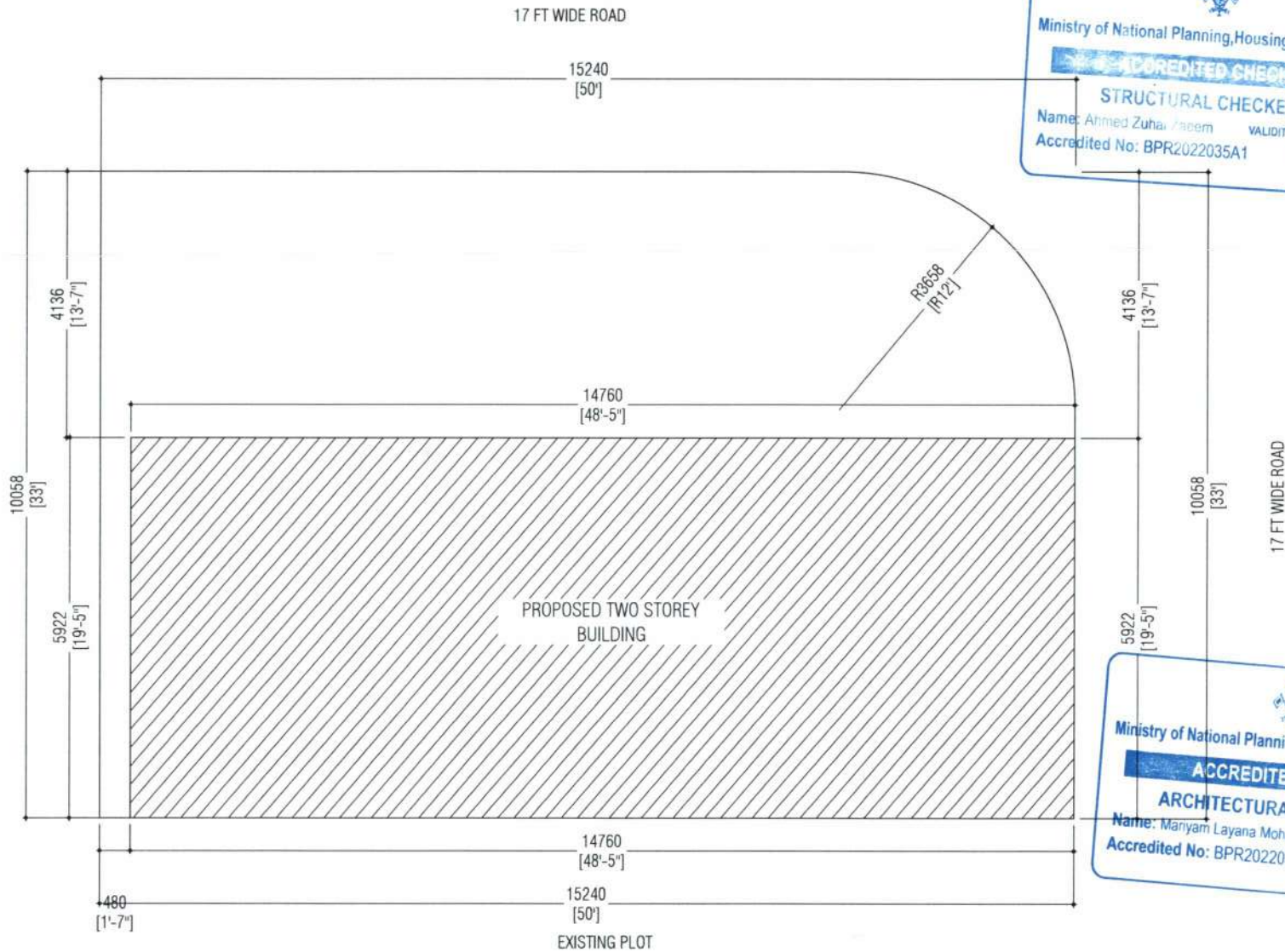
AUG 2023



Associates Architects

S M A S S O C I A T E S A R C H I T E C T S
R I H I K U R I (1 S T F L O O R) , N I R O L H U M A G U
N E I G H B O R H O O D 1 , H U L H U M A L E '
T E L : (9 6 0) 7 8 2 6 2 6 0 , (9 6 0) 7 9 7 7 1 1 9
E M A I L : I N F O @ S M C O L L E C T I V E S . N E T

EXISTING PLOT



Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhair Zarem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

SM

Associates Architects

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 EMAIL: INFO@SMCOLLECTIVES.NET

NOTES:

NO.	DESCRIPTION	DATE
REV A0	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT S. KENDHOO

Client: KENDHOO COUNCIL

Architect: ISHA
 Drafting: Wafa
 Engineer: NASEEH
 Structural Checker: ZUHAIL
 Architectural Checker: LAYANA

Drawing Title: AS SHOWN

Issue #R Date: APR 2023 Pages: 23

Scale: 1:100 Paper: A4

Dwg # AR2324-A01-REV[A0]

01 SITE PLAN
 A01 SCALE 1:100



PLOT AREA:
 PROPOSED BUILDING FOOTPRINT AREA:
 OPEN AREA:

153.29 SQM
 87.41 SQM (57%)
 65.88 SQM (43%)

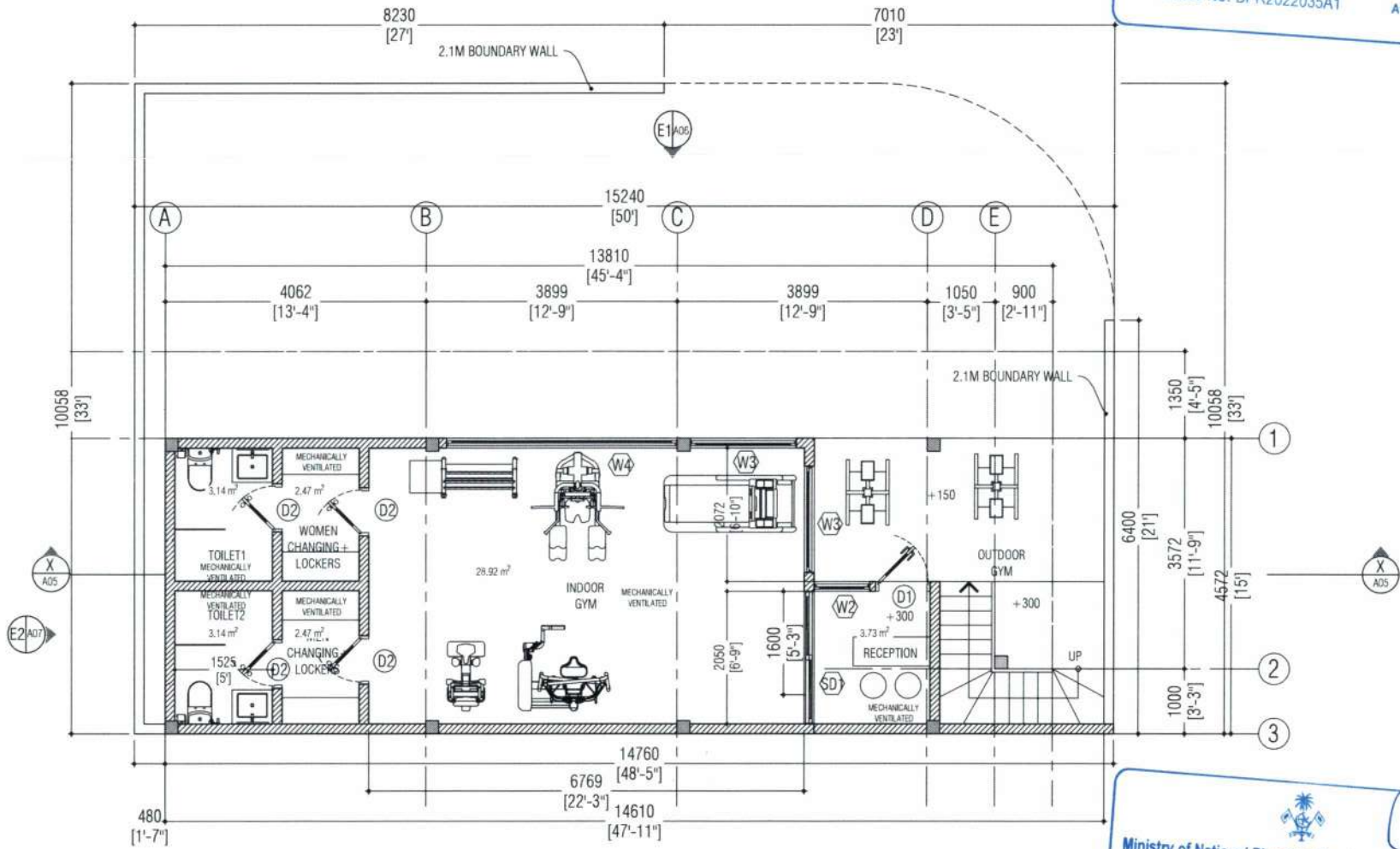


Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhail Zabeen VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001

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01 GROUND FLOOR PLAN
 SCALE 1:100
 0 1m 2m 3m 4m

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Mariyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

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REV A0	ISSUED FOR REVIEW	13-APR-23

GYM & OFFICE
 PROPOSED TWO STOREY GYM AND
 OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL
 Architect: ISHA
 Drafting: WAFI
 Engineer: NASEEH
 Structural Checker: ZUHAIL
 Architectural Checker: LAYANA

Drawing Title: AS SHOWN
 Issue: 01 Date: APR 2023 Pages: 23
 Scale: 1:100 Paper: A4
 Dwg #: AR2324-A02-REV[A0]

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GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect: ISHA
Drafting: Wafa
Engineer: NAGEEH
Structural Checker: ZUHAIL
Architectural Checker: LAYANA

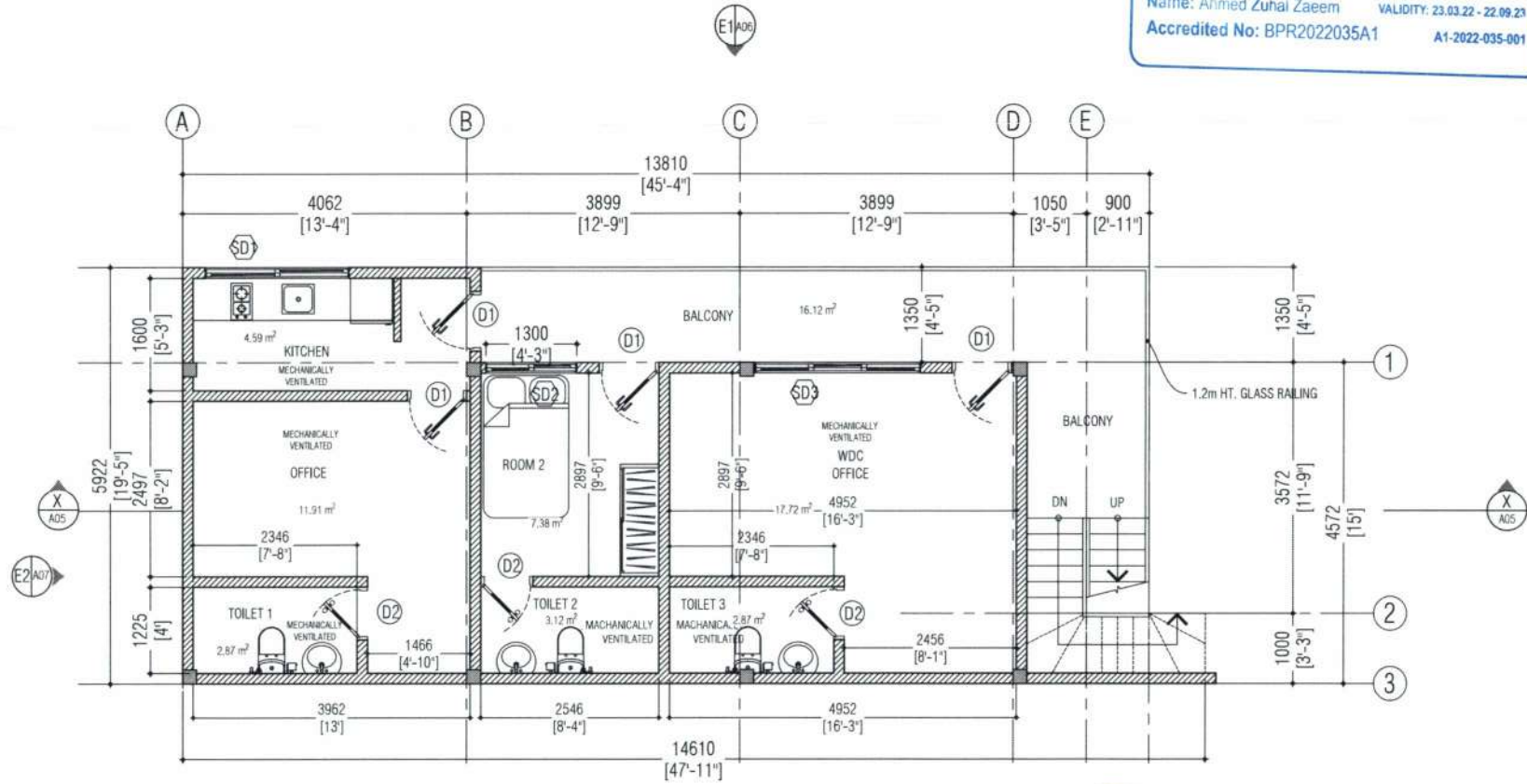
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Issue: 01 Date: APR 2023 Pages: 23

Scale: 1:100 Paper: A4


Dwg #: AR2324-A03-REV[A0]

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23
Accredited No: BPR2022035A1 A1-2022-035-001



01 FIRST FLOOR PLAN
A02 SCALE 1:100
0 1m 2m 3m 4m

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
Name: Maryyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
Accredited No: BPR2022031B1 B1-2022-031-001

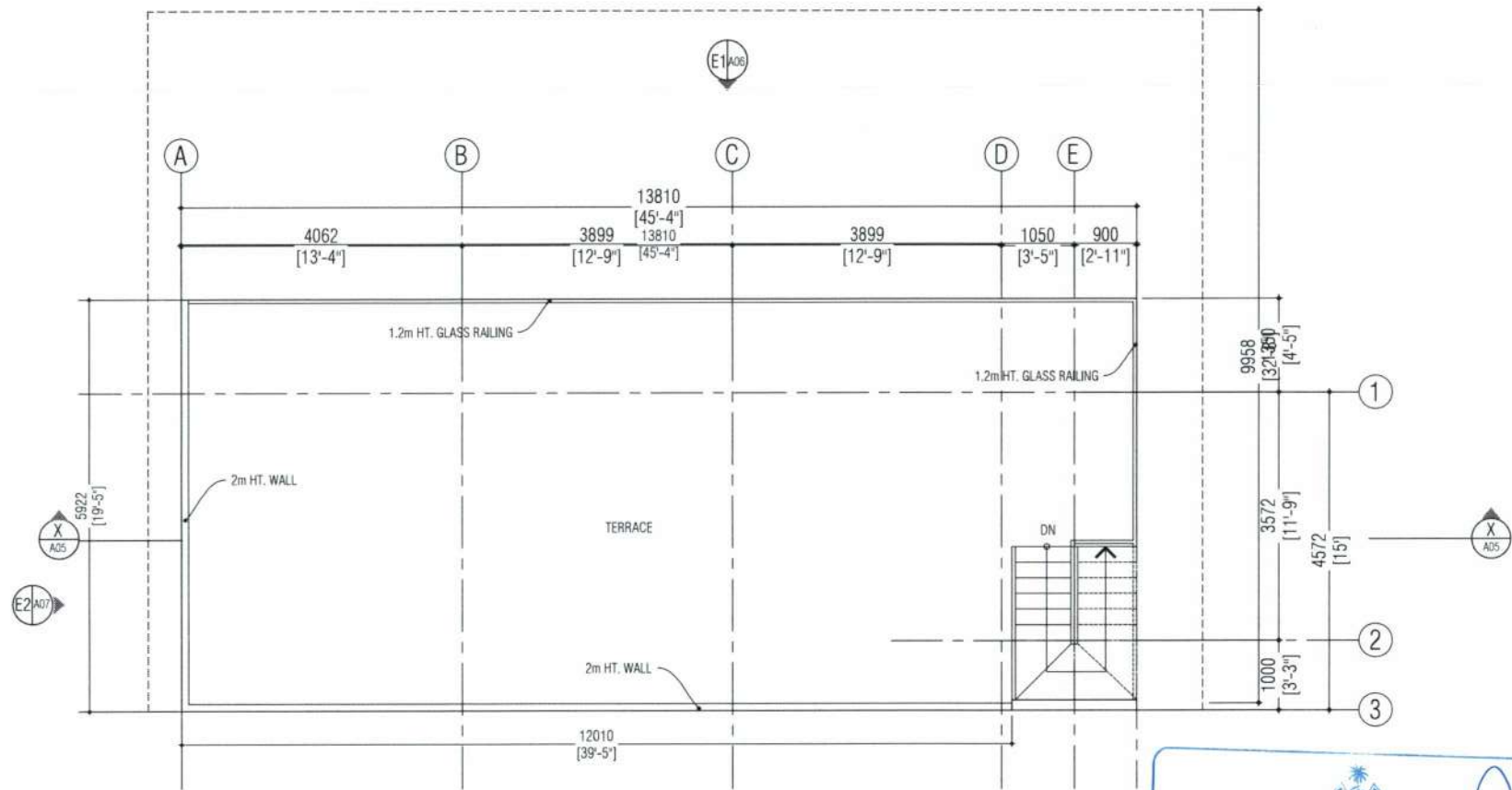

 Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001

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NOTES:



01 TERRACE FLOOR PLAN
 SCALE 1:100




 Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Manyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

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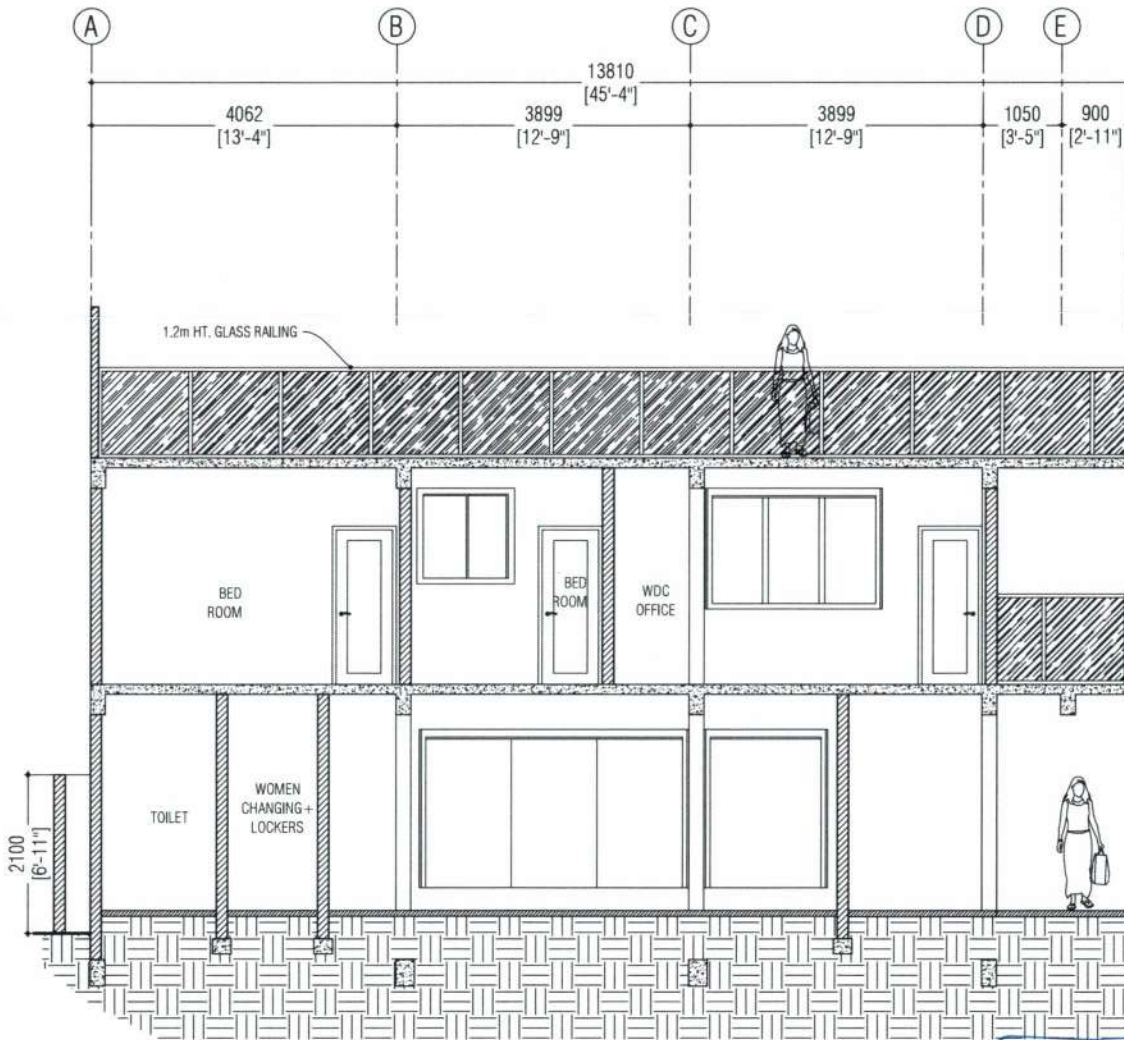
GYM & OFFICE
 PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHUGU

Client: KENDHUGU COUNCIL

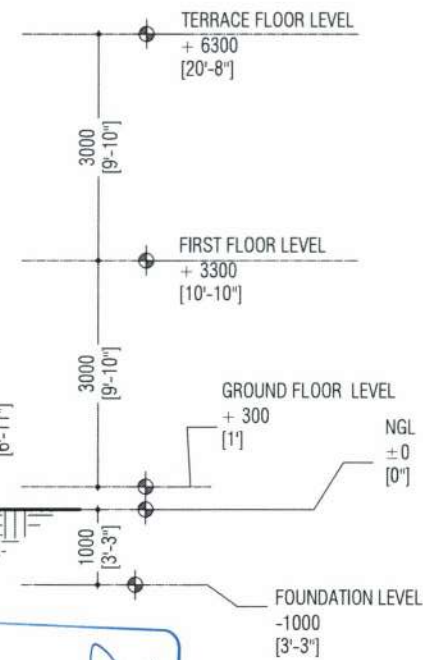
Architect	ISHA
Drafting	Wafa
Engineer	NASEEH
Structural Checker	ZUHAIL
Architectural Checker	LAYANA

Drawing Title: AS SHOWN

Issue #/R	Date: APR 2023	Pages: 23
Scale: 1:100	Paper: A4	
Dwg #	AR2324-A04-REV[A0]	



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 Name: Ahmed Zuhair Zaeem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



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ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

01 SECTION X:X
 A06 SCALE 1:100
 0 1m 2m 3m 4m

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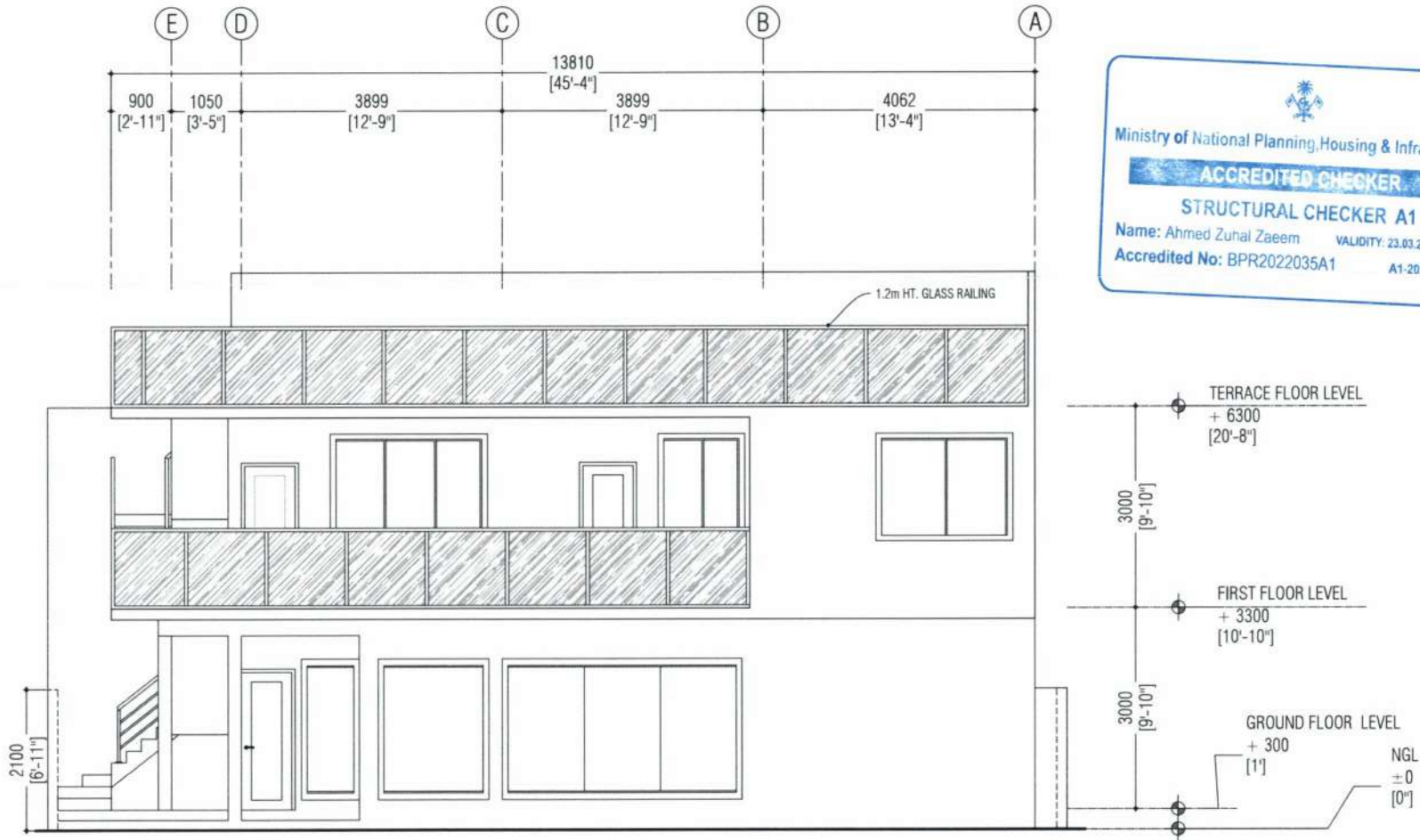
GYM & OFFICE
 PROPOSED TWO STOREY GYM AND
 OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect:	ISHA
Drafting:	WAFI
Engineer:	NAGEEH
Structural Checker:	ZUHAIR
Architectural Checker:	LAYANA

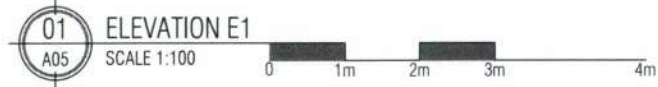
Drawing Title: AS SHOWN

Issue #/R	Date: APR 2023	Page: 23
Scale:	1:100	Page: A4
Dwg #:	AR2324-A05-REV(A0)	



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Ministry of National Planning, Housing & Infrastructure
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ARCHITECTURAL CHECKER B1
 Name: Maryyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001



Associates Architects

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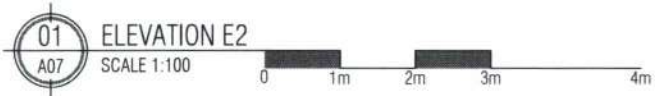
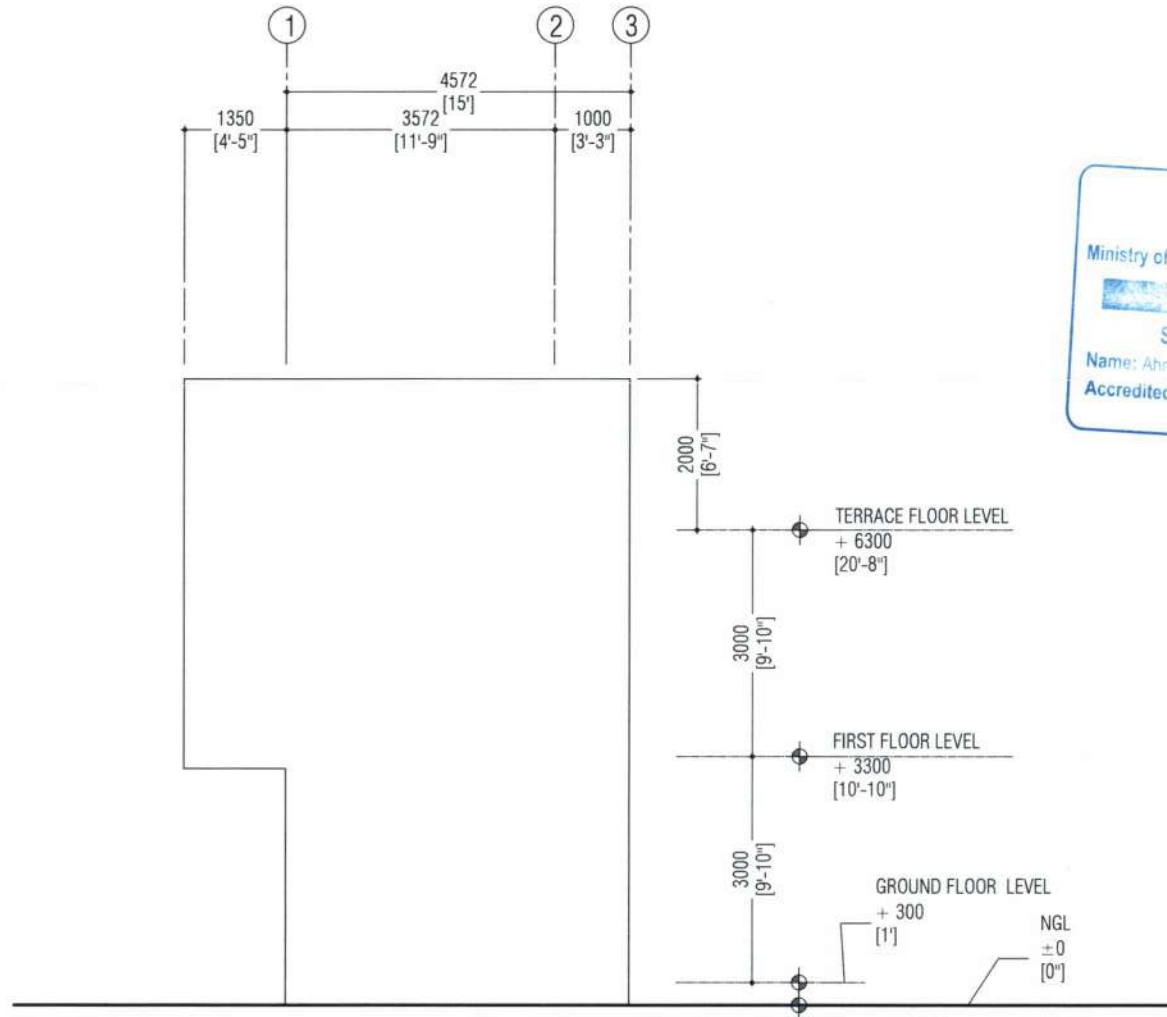
GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client:	KENDHOO COUNCIL
Architect:	ISHA
Drafting:	WAFI
Engineer:	NASEEH
Structural Checker:	ZUHAIL
Architectural Checker:	LAYANA

Drawing Title: AS SHOWN

Issue: IPR Date: APR 2023 Pages: 23
 Scale: 1:100 Paper: A4
 Dwg #: AR2324-A06-REV[A0]



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NOTES

NO.	DESCRIPTION	DATE
REV A/B	ISSUED FOR REVIEW	12 APR 23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect	ISHA
Drafting	Wafa
Engineer	NAGEDH
Structural Checker	ZUHAIL
Architectural Checker	LAYANA

Drawing Title: AS SHOWN

Issue: 01 Date: APR 2023 Pages: 23

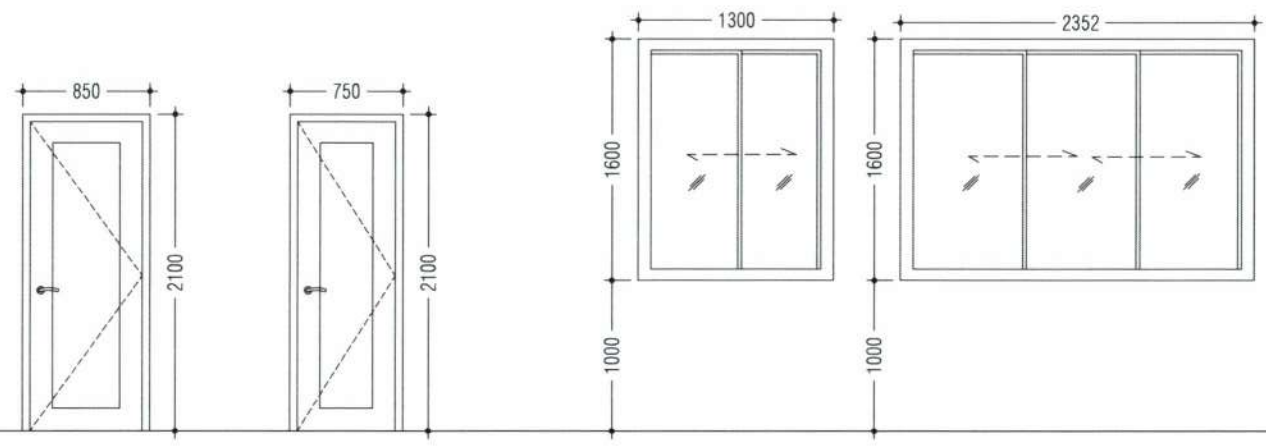
Scale: 1:100 Paper: A4

Dwg #: AR2324-A07-REV(A0)



D/W #	D1	D2
DOOR FRAME	FIBER	FIBER
PANEL	READY MADE FIBER DOOR	READY MADE FIBER DOOR
FINISHES	WHITE	WHITE
MAX. OPEN AREA	1.54 SQM	1.33 SQM

SD2		SD3	
ALUMINIUM		ALUMINIUM	
ALUMINIUM	GLASS	ALUMINIUM	GLASS
WHITE	BLACK TINT	WHITE	BLACK TINT
0.80 m ²		2.13 m ²	



FFL ▼



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NOTES:

NO.	DESCRIPTION	DATE
REV A0	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE
PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

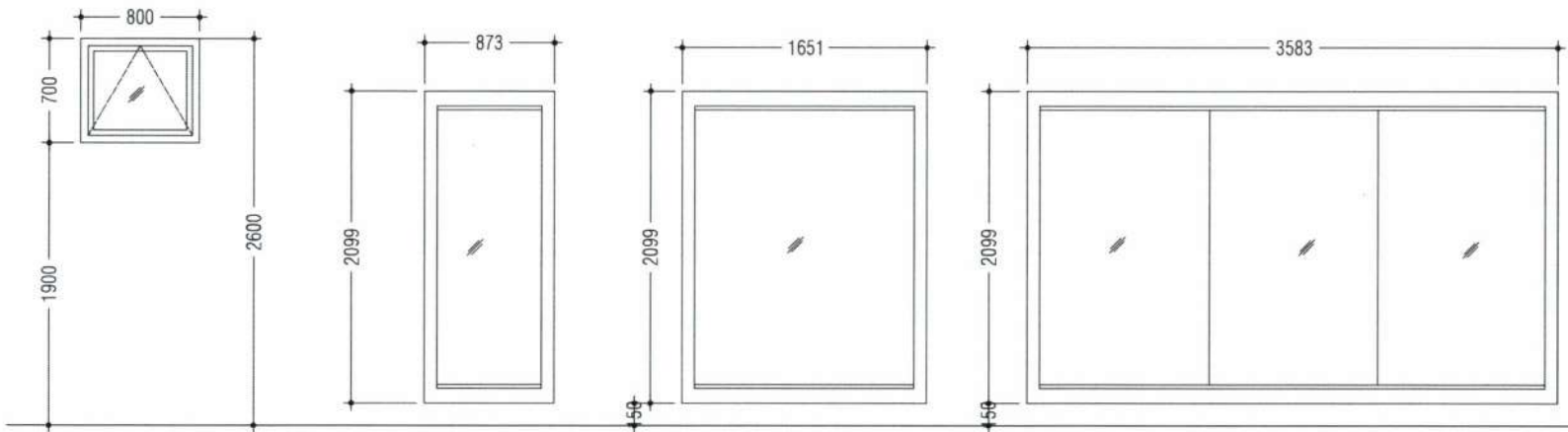
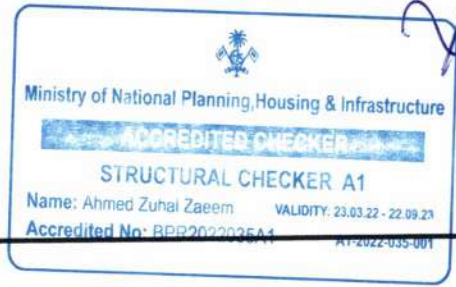
Architect:	ISHA
Drafting:	WFA
Engineer:	NASEEH
Structural Checker:	ZUHAIL
Architectural Checker:	LAYANA

Drawing Title: AS SHOWN

Issue I/R: Date: APR 2023 Pages: 23
Scale: 1:50 Paper: A4
Dwg #: AR2324-A08- REV[A0]

D/W #	W1	W2	W3
DOOR FRAME	ALUMINIUM	ALUMINIUM	ALUMINIUM
PANEL	ALUMINIUM GLASS	ALUMINIUM GLASS	ALUMINIUM GLASS
FINISHES	WHITE BLACK TINT	WHITE BLACK TINT	WHITE BLACK TINT
MAX. OPEN AREA	0.42 m ²	-	-

W4
ALUMINIUM
ALUMINIUM GLASS
WHITE BLACK TINT
-



FFL ▼



Associates Architects

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NOTES:



NO.	DESCRIPTION	DATE
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GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT S. KENDHOO



Client:	KENDHOO COUNCIL
Architect:	ISHA
Drafting:	WFA
Engineer:	NASEEH
Structural Checker:	ZUHAI
Architectural Checker:	LAYANA

Drawing Title: AS SHOWN

Issue: 01 Date: APR 2023 Pages: 23
Scale: 1:50 Paper: A4
Dwg #: AR2324-A09-REV[A0]

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NOTES



Ministry of National Planning, Housing & Infrastructure

ACCREDITED CHECKER

STRUCTURAL CHECKER A1

Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23
Accredited No: BPR2022035A1 A1-2022-035-001

FLOOR	SPACE/ROOM	FLOOR AREA (SQM)	WINDOWS FOR VENTILATION	VENTILATION REQUIRED 10% (SQM)	VENTILATION PROVIDED (SQM)	VENTILATION PROVIDED (%)	VENTILATION CHECK (YES/NO)
GROUND FLOOR	RECEPTION			MECHANICALLY VENTILATED			YES
	INDOOR GYM			MECHANICALLY VENTILATED			YES
	WOMEN LOCKERS			MECHANICALLY VENTILATED			YES
	MEN LOCKERS			MECHANICALLY VENTILATED			YES
	TOILET 1			MECHANICALLY VENTILATED			YES
	TOILET 2			MECHANICALLY VENTILATED			YES
1ST FLOOR	WDC OFFICE			MECHANICALLY VENTILATED			YES
	KITCHEN			MECHANICALLY VENTILATED			YES
	TOILET 1			MECHANICALLY VENTILATED			YES
	TOILET 2			MECHANICALLY VENTILATED			YES
	TOILET 3			MECHANICALLY VENTILATED			YES
	ROOM 1	11.91	SD1	1.19	1.34	11.3	YES
	ROOM 2	7.38	D1, SD2	0.74	2.34	31.7	YES



Ministry of National Planning, Housing & Infrastructure

ACCREDITED CHECKER

ARCHITECTURAL CHECKER B1

Name: Mariyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
Accredited No: BPR2022031B1 B1-2022-031-001

01 VENTILATION SCHEDULE
A10 SCALE NTS

NO.	DESCRIPTION	DATE
REV A1	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

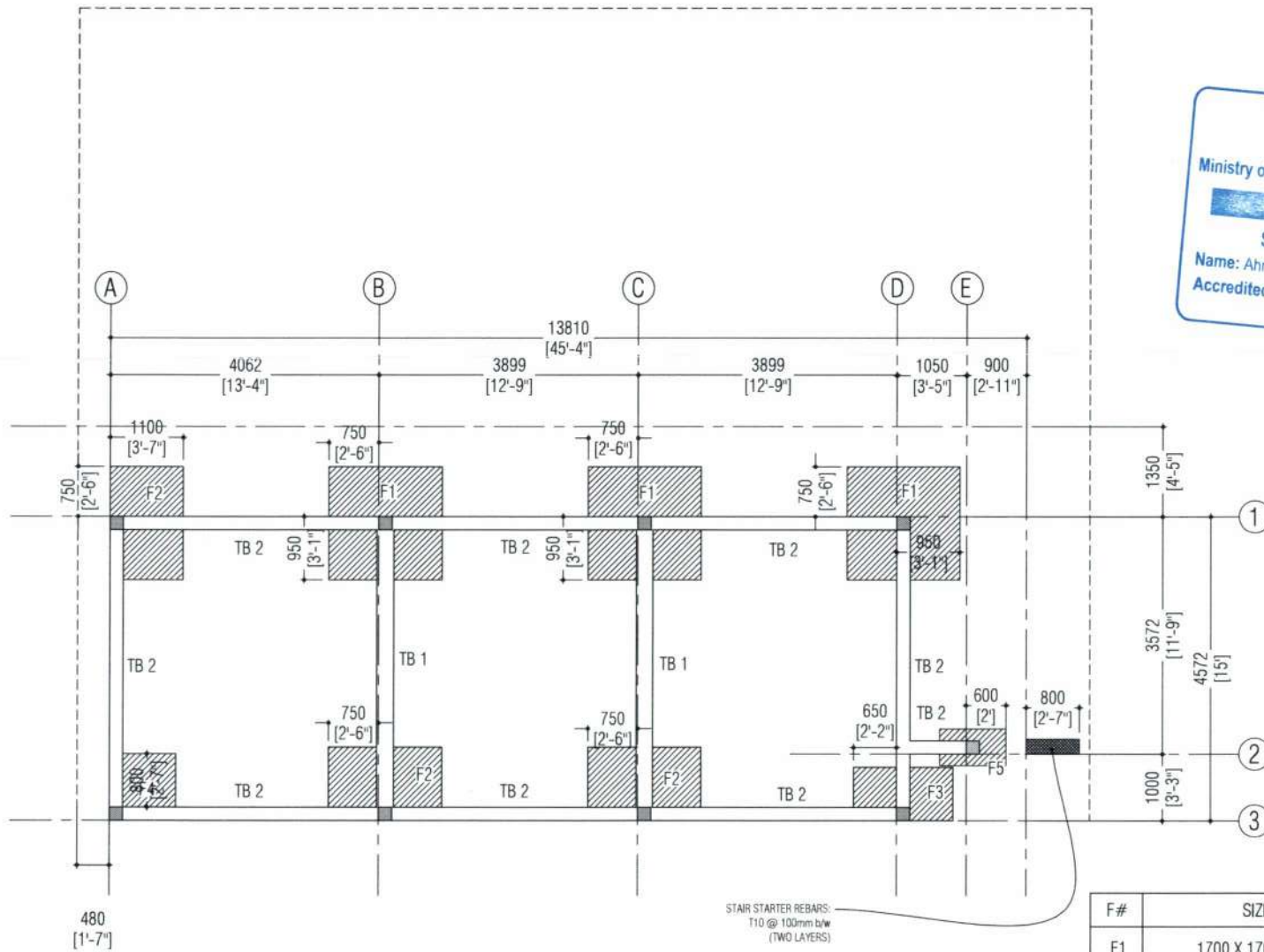
PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect: ISHA
Drafting: Wafa
Engineer: NACEEH
Structural Checker: ZUHAIL
Architectural Checker: LAYANA

Drawing Title: AS SHOWN

Issue: #1 Date: APR 2023 Pages: 23
Scale: NTS Paper: A4
Dwg #: AR2324-A10-REV[A0]



- * FOUNDATION DEPTH = 1050mm BELOW FROM NGL
- * 80mm GROUND SLAB WITH R-6 200mm SINGLE NET



F#	SIZE	REINFORCEMENT
F1	1700 X 1700 X 300	17T10@100 C/C (B1) 17T10@100 C/C (B2)
F2	1100 X 1700 X 300	22T12@75C/C (B1) 14T12@75 C/C (B2)
F3	800 X 1500 X 300	15T10@100 C/C (B1) 8T10@100 C/C (B2)
F4	1000 X 1000 X 300	13T12@75 C/C (B1) 13T12@75 C/C (B2)
F5	550 X 1000 X 300	6T10@200 C/C (B1) 3T10@200 C/C (B2)

01 FOUNDATION PLAN
SCALE 1:100



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GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOG

Client: KENDHOG COUNCIL

Architect: ISHA
Drafting: WAFI
Engineer: NASEEH
Structural Checker: ZUHAL
Architectural Checker: LAYANA

Drawing Title: AS SHOWN

Issue #R: Date: APR 2023 Pages: 23

Scale: 1:100 Paper: A4

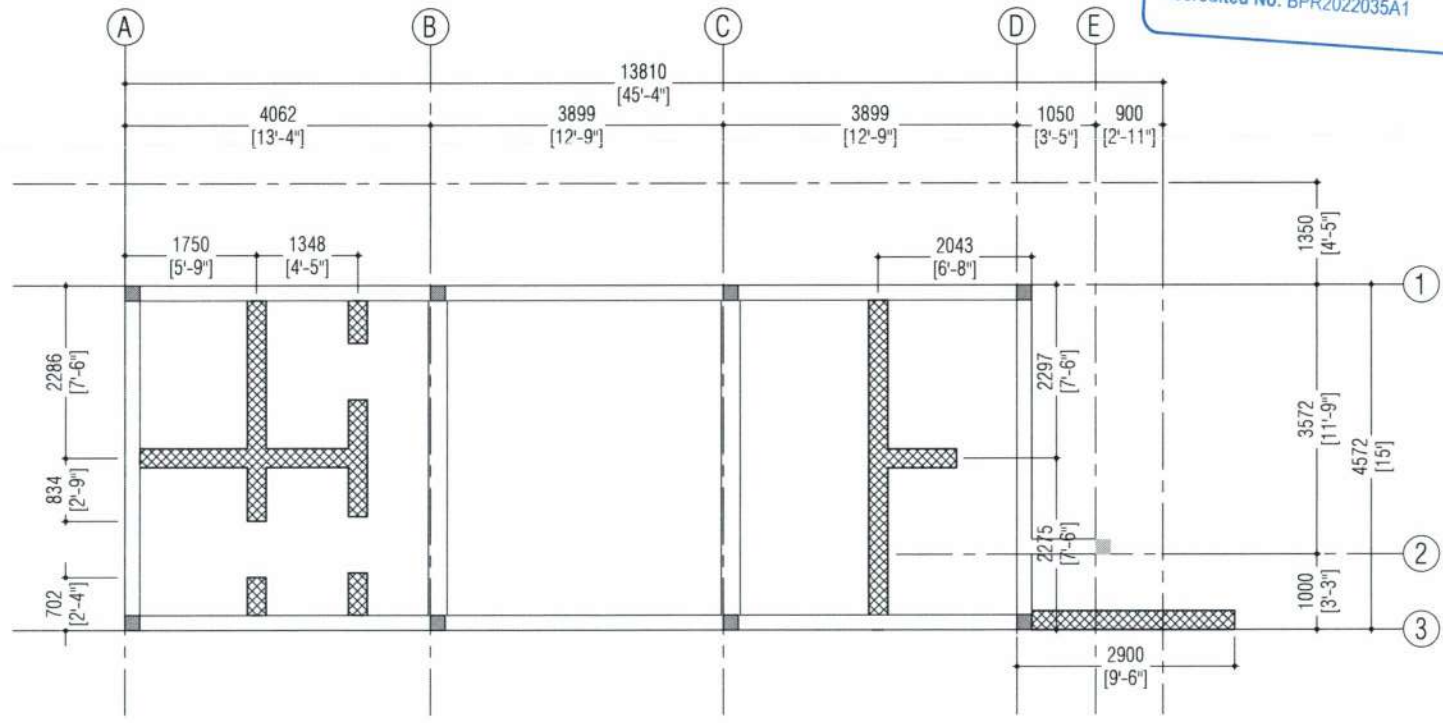
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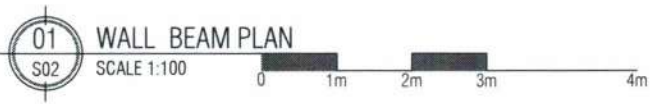
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Ministry of National Planning, Housing & Infrastructure
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 Name: Ahmed Zunal Zaeem VALIDITY: 23.03.22 - 22.09.23
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 250 X 200mm WALL BEAM (WB) - REFER TO DETAIL ON STRUCTURAL DRAWING



Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

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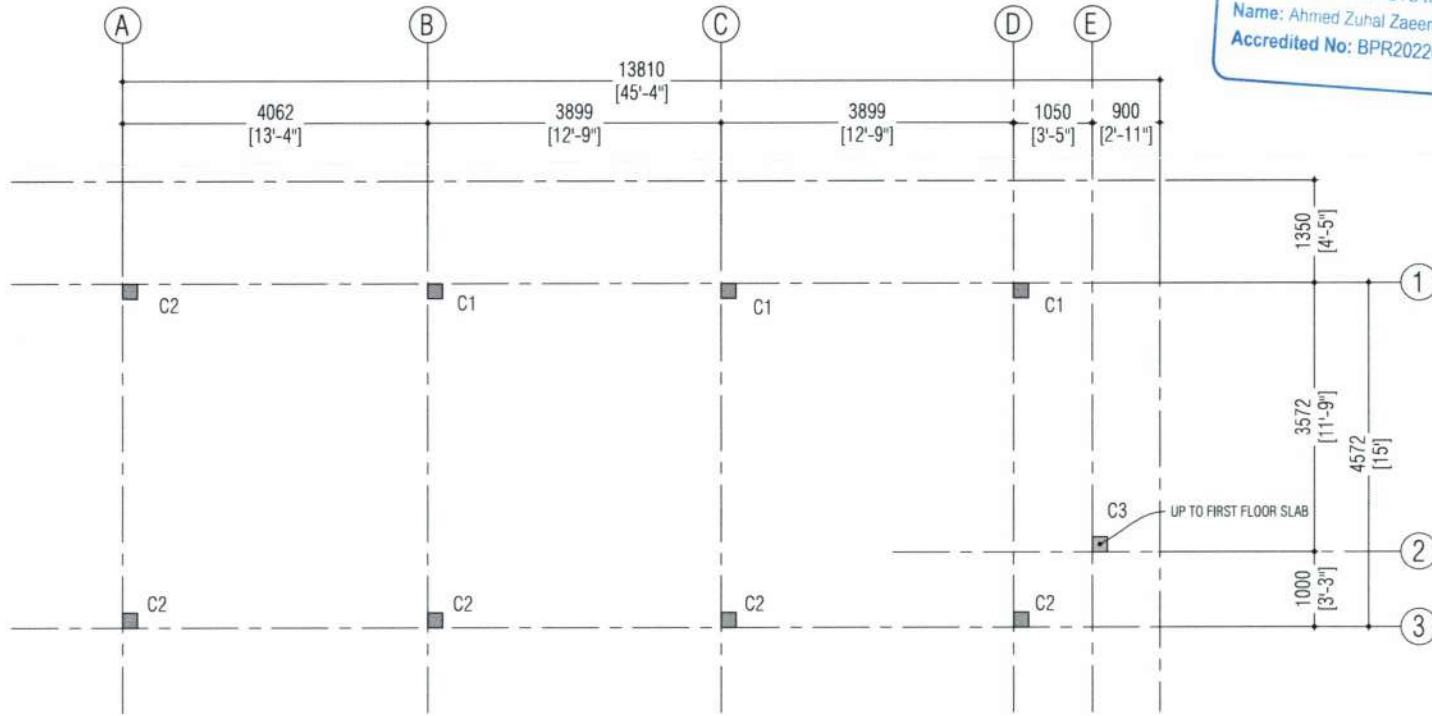
GYM & OFFICE
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 Engineer: NASEEH
 Structural Checker: ZUHAL
 Architectural Checker: LAYANA

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SM Associates Architects

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 Drafting: WAFI
 Engineer: NASEEH
 Structural Checker: ZUHAIL
 Architectural Checker: LAYANA

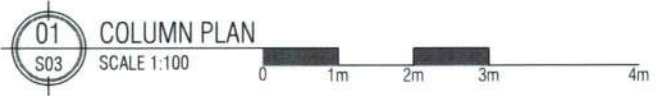
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Dwg #: AR2324-S03-REV(A0)

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Manyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001





Associates Architects

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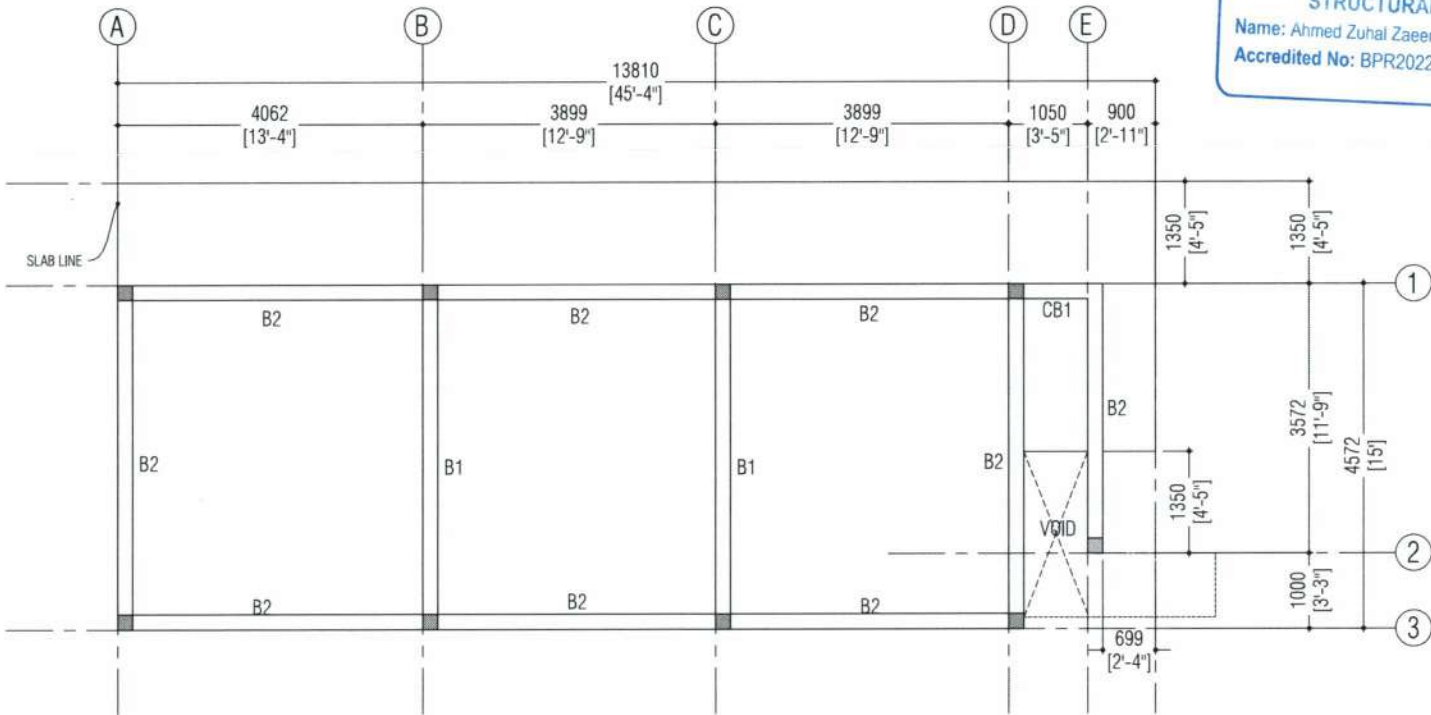
Ministry of National Planning, Housing & Infrastructure

ACCREDITED CHECKER

STRUCTURAL CHECKER A1

Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23

Accredited No: BPR2022035A1 A1-2022-035-00



01
S04

FIRST FLOOR BEAM PLAN

SCALE 1:100



Ministry of National Planning, Housing & Infrastructure

ACCREDITED CHECKER

ARCHITECTURAL CHECKER B1

Name: Mariyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23

Accredited No: BPR2022031B1 B1-2022-031-001

NOTES

NO.	DESCRIPTION	DATE
REV AB	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B, KENDHOO

Client: KENDHOO COUNCIL

Architect	ISHA
Drafting	WAFI
Engineer	NASEEH
Structural Checker	ZUHAL
Architectural Checker	LAYANA

Drawing Title: AS SHOWN

Issue: 01 Date: APR 2023 Pages: 23

Scale: 1:100 Paper: A4

Dwg #: AR2324-S04-REV[A0]



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NOTES

NO.	DESCRIPTION	DATE
REV A/D	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B, KENDHOO

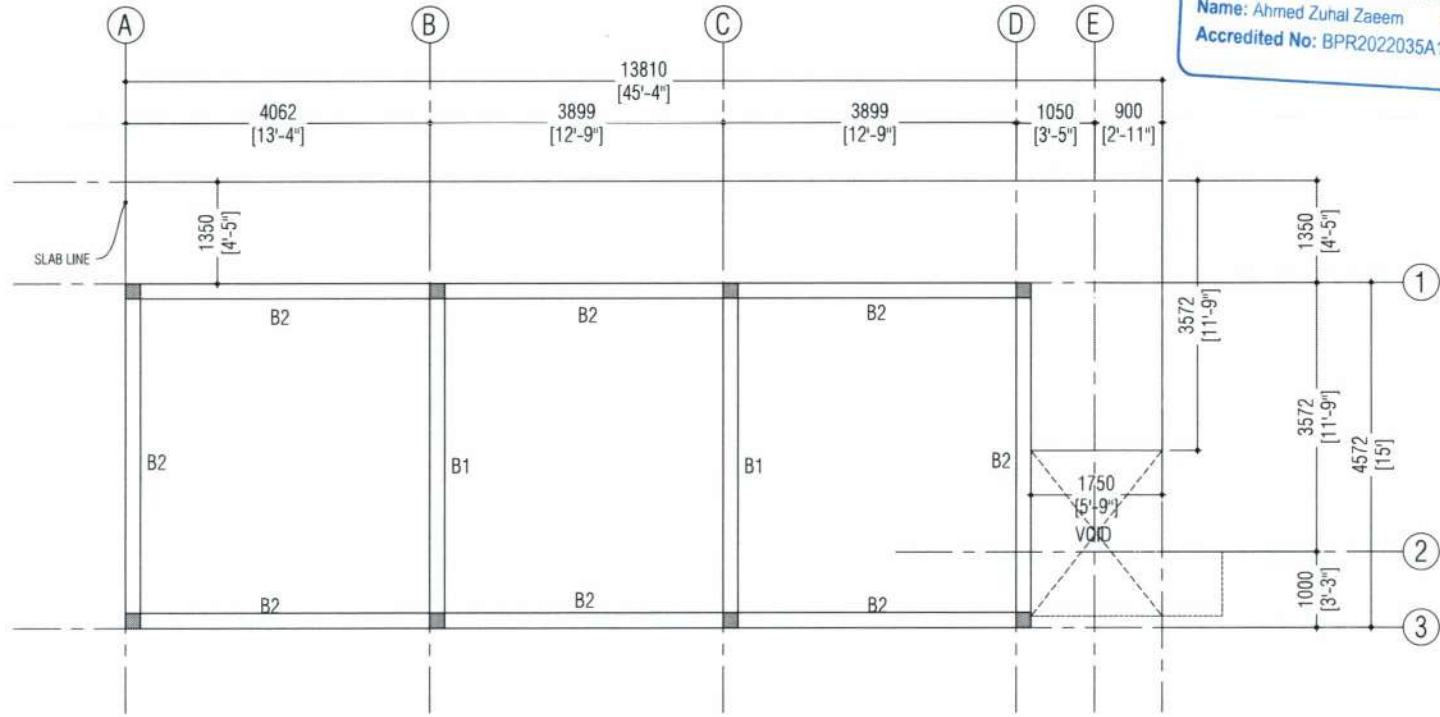
Client: KENDHOO COUNCIL

Architect: ISHA
 Drafting: WAFI
 Engineer: NASEEH
 Structural Checker: ZUHAL
 Architectural Checker: LAYANA

Drawing Title: AS SHOWN

Issue: 01 Date: APR 2023 Pages: 23
 Scale: 1:100 Paper: A4
 Dwg #: AR2324-S05-REV[A0]

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ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhail Zaem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

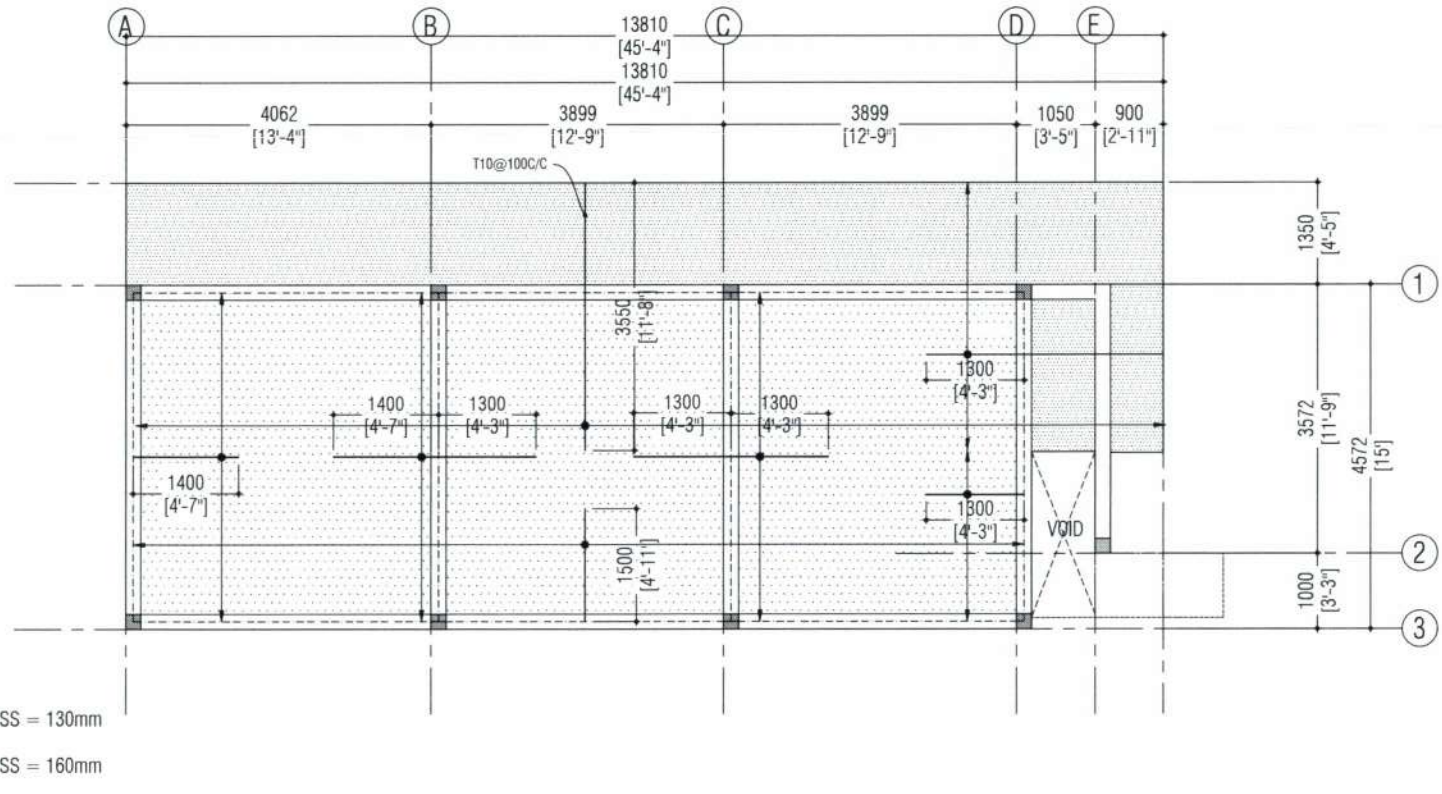




TERRACE FLOOR BEAM PLAN

SCALE 1:100




 Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zunal Zaeem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



 SLAB THICKNESS = 130mm
 SLAB THICKNESS = 160mm

TOP REINFORCEMENT = T10-200mm C/C (AS SHOWN)-UNLESS SPECIFIED
 TOP DISTRIBUTION REINFORCEMENT = T10-200mm C/C (AS SHOWN)
 BOTTOM REINFORCEMENT = T10-150mm C/C BOTH WAYS (NOT SHOWN)

BARS DISCONTINUE OVER ALL OPENINGS


 Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Mariyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

01 1ST FLOOR SLAB REINFORCEMENT PLAN
 S06 SCALE 1:100



SM

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NOTES

NO.	DESCRIPTION	DATE
REV 01	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE
 PROPOSED TWO STOREY GYM AND
 OFFICES AT B. KENDHOO

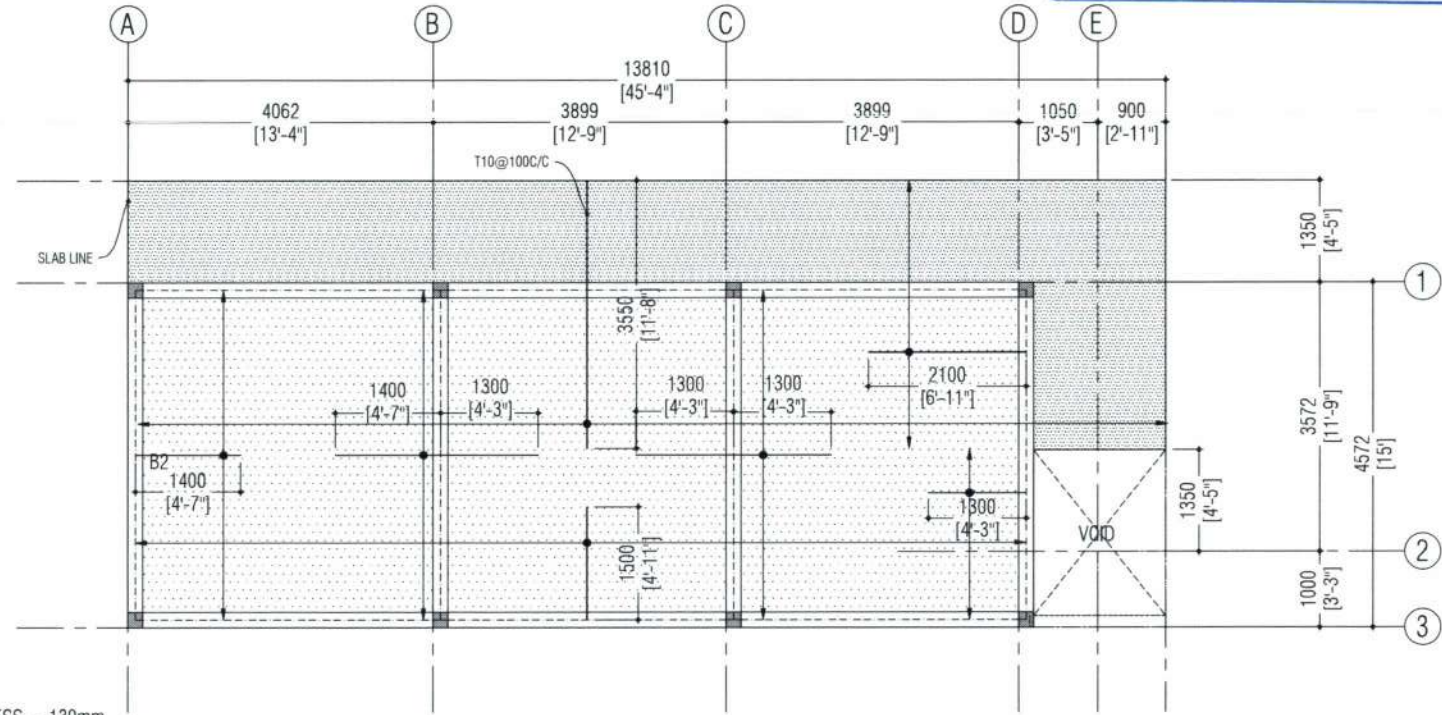
Client: KENDHOO COUNCIL



Architect:	ISHA
Drafting:	WAFI
Engineer:	INASEEH
Structural Checker:	ZUHAIL
Architectural Checker:	LAYANA

Drawing Title: AS SHOWN

Issue: #R	Date: APR 2023	Pages: 23
Scale: 1:100	Paper: A4	
Dwg #: AR2324-S06-REV[A0]		



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ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhair Zaem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



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TOP REINFORCEMENT = T10-200mm C/C (AS SHOWN)-UNLESS SPECIFIED
 TOP DISTRIBUTION REINFORCEMENT = T10-200mm C/C (AS SHOWN)
 BOTTOM REINFORCEMENT = T10-150mm C/C BOTH WAYS (NOT SHOWN)

BARS DISCONTINUE OVER ALL OPENINGS

01 TERRACE REINFORCEMENT PLAN
S07 SCALE 1:100



 Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

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NOTES

NO.	DESCRIPTION	DATE
REV 01	ISSUED FOR REVIEW	12-APR-23

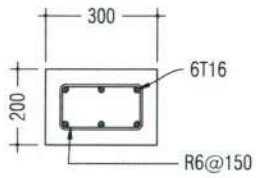
GYM & OFFICE
 PROPOSED TWO STOREY GYM AND
 OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

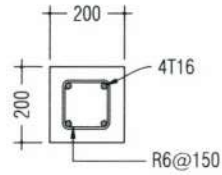
Architect	ISHA
Drafting	WAFI
Engineer	NASEEH
Structural Checker	ZUHAL
Architectural Checker	LAYANA

Drawing Title: AS SHOWN

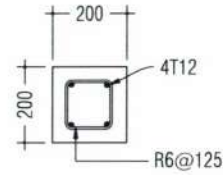
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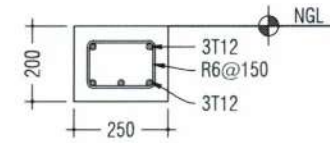
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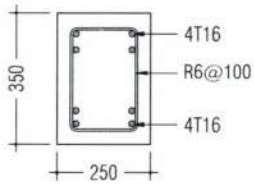
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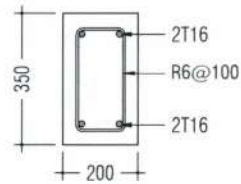
COLUMN - C3
UPTO FIRST
FLOOR SLAB



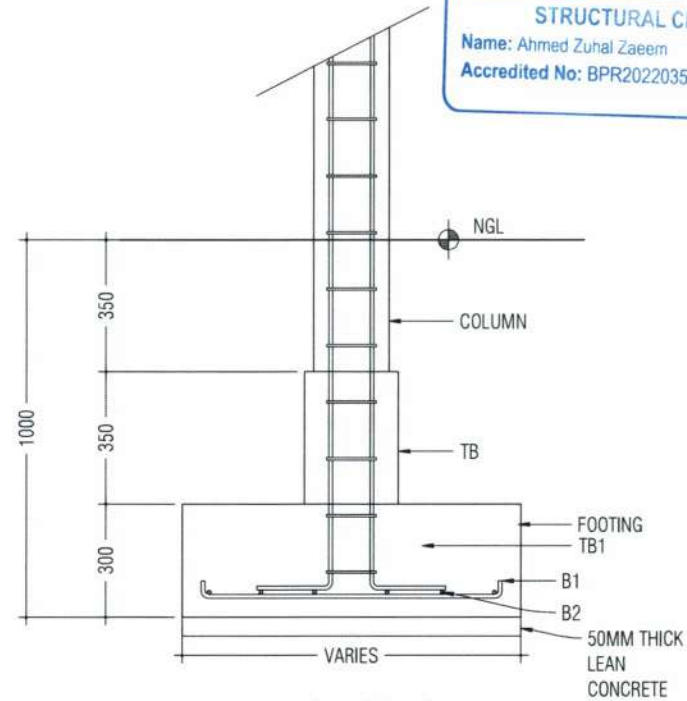
WB
(BELOW WALLS NOT COINCIDING WITH TIE
BEAMS (AT GROUND FLOOR LEVEL))



TB1



TB2



TYPICAL FOOTING
SECTION

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Maryyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



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NOTES

NO.	DESCRIPTION	DATE
REV A0	ISSUED FOR REVIEW	13-APR-23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND
OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect: ISHA
 Drafting: WAF A
 Engineer: NAGEEH
 Structural Checker: ZUHAIL
 Architectural Checker: LAYANA

Drawing Title: AS SHOWN

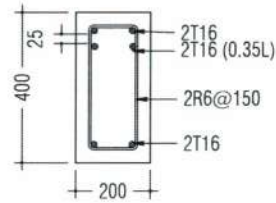
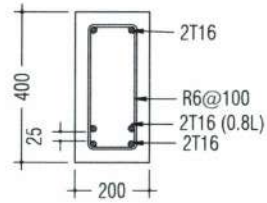
Issue #R: Date: APR 2023 Pages: 23

Scale: 1:20 Paper: A4

Dwg # AR2324-S08-REV[A0]

01
S08
STRUCTURAL DETAILS
SCALE 1:20

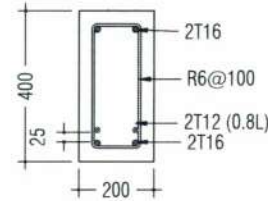




MID SPAN

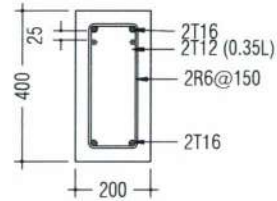
B1

SUPPORT

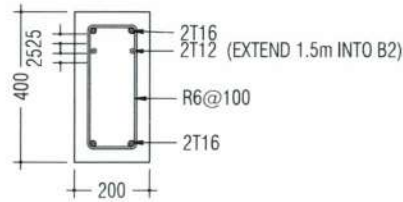


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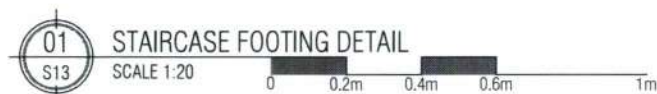
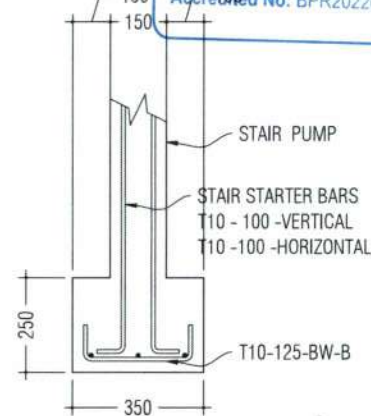
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SUPPORT



CB1



SM

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NOTES

NO.	DESCRIPTION	DATE
REV 01	ISSUED FOR REVIEW	12/4/PR/23

GYM & OFFICE

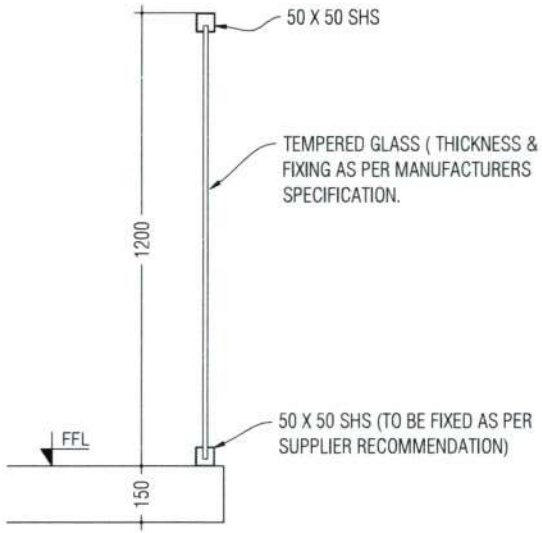
PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

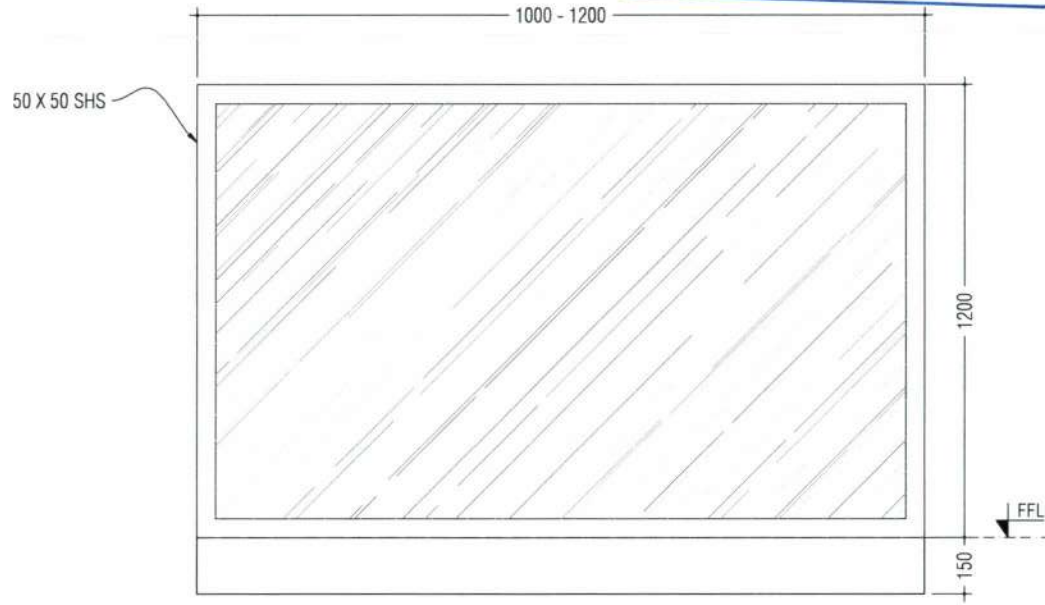
Architect: ISHA
Drafting: Wafa
Engineer: NAGEEH
Structural Checker: ZUHAI
Architectural Checker: LAYANA

Drawing Title: AS SHOWN

Issue: 01 Date: APR 2023 Pages: 23
Scale: 1:20 Paper: A4
Dwg #: AR2324-S09-REV(A0)



TEMPERED GLASS RAILING
SECTION VIEW

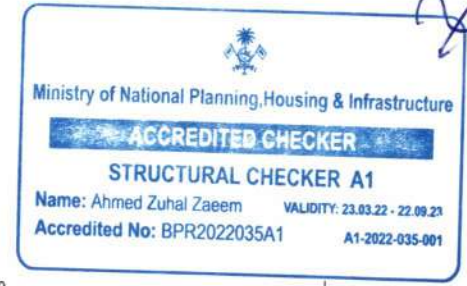


TEMPERED GLASS RAILING - FRONT VIEW



GLASS RAILING DETAILS

SCALE 1:20



SM

Associates Architects

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NOTES

NO.	DESCRIPTION	DATE
REV A0	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

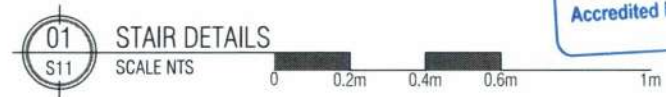
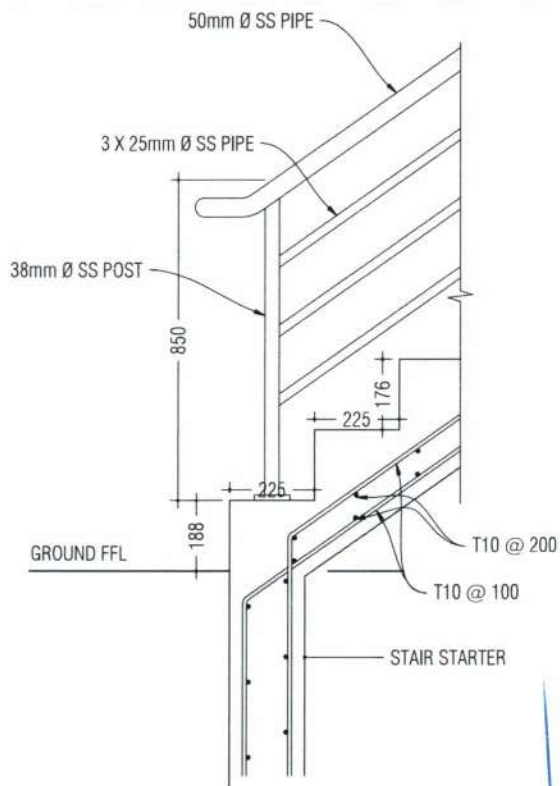
PROPOSED TWO STOREY GYM AND
OFFICES AT B. KENDHOO

Client: KENDHOO COUNCIL

Architect: ISHA
Drafting: Wafa
Engineer: NASEEH
Structural Checker: ZUHAIL
Architectural Checker: LAYANA

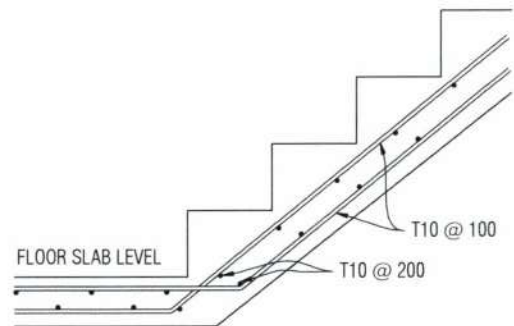
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Issue: 01 Date: APR 2023 Pages: 23
Scale: 1:20 Paper: A4
Dwg #: AR2324-S10-REV(A0)



Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
 Name: Mariyam Layana Mohamed VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022031B1 B1-2022-031-001

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
 Name: Ahmed Zuhail Zaeem VALIDITY: 23.03.22 - 22.09.23
 Accredited No: BPR2022035A1 A1-2022-035-001



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NOTES

REVISIONS

NO.	DESCRIPTION	DATE
REV 01	ISSUED FOR REVIEW	12-APR-23

PROJECT INFORMATION

GYM & OFFICE
 PROPOSED TWO STOREY GYM AND
 OFFICES AT B. KENDHOO

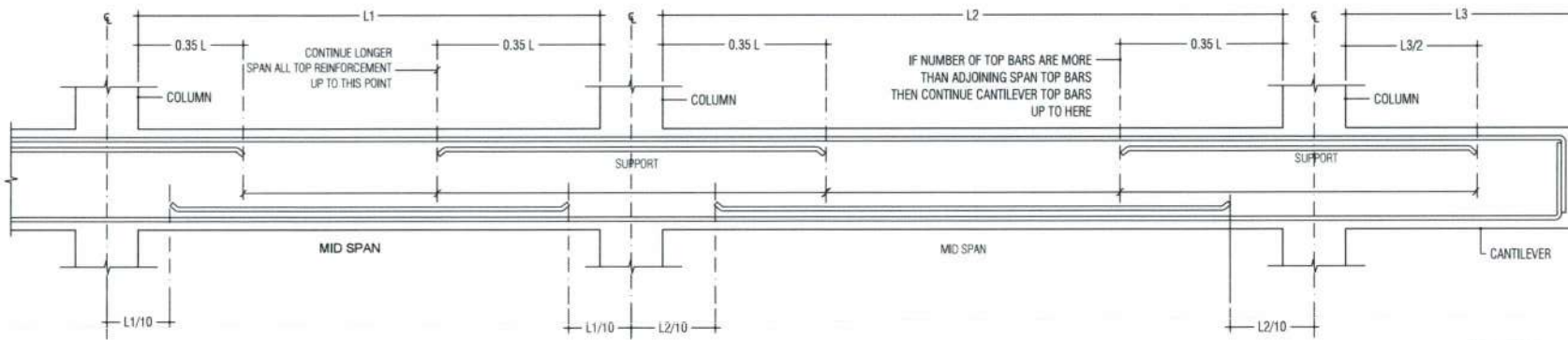
CLIENT

KENDHOO COUNCIL

Architect:	ISHA
Drafting:	Wafa
Engineer:	NASEEH
Structural Checker:	ZUHAIL
Architectural Checker:	LAYANA

Drawing Title: AS SHOWN

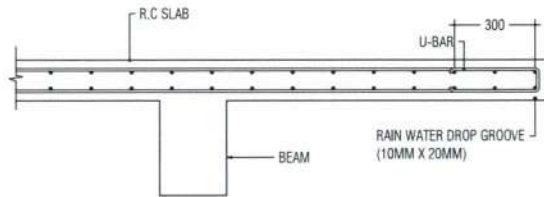
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Dwg #	AR2324-S11- REV(A0)	



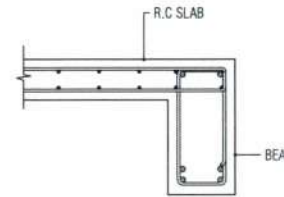
SIMPLIFIED DETAILING RULES FOR BEAMS (BS81 10-1)
NTS



L1 = SHORTER SPAN
L2 = LONGER SPAN
L3 = CANTILEVER LENGTH

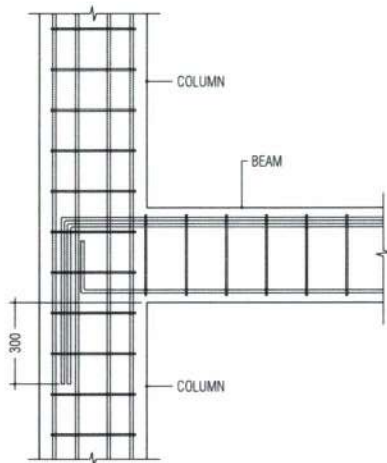


CANTILEVERED SLAB EDGE DETAIL
NTS

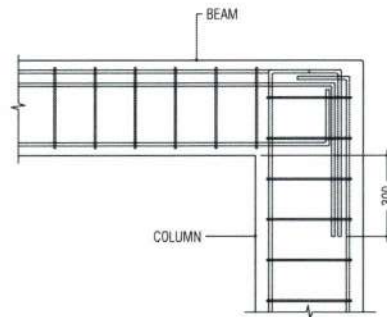


SLAB-BEAM ANCHORAGE DETAIL
NTS

NOTE:
- STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS
- OTHER DETAILS NOT FOUND HERE SHALL BE REFEREED TO IN RELEVANT BS CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER



BEAM TO COLUMN CONNECTION
NTS



END COLUMN TO BEAM CONNECTION
NTS



SHEAR LINKS ANCHORAGE DETAIL
NTS



Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
STRUCTURAL CHECKER A1
Name: Ahmad Zubair Zaheem
Accredited No: BPR2022035A1
VALIDITY: 23.03.22 - 22.09.23
REV NO DESCRIPTION DATE
11-2022-035-001 ISSUED FOR REVIEW 12-APR-23

Ministry of National Planning, Housing & Infrastructure
ACCREDITED CHECKER
ARCHITECTURAL CHECKER B1
Name: Mariyam Layana Mohamed
Accredited No: BPR2022031B1
VALIDITY: 23.03.22 - 22.09.23
B1-2022-031-001



Associates Architects

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NOTES

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client:	KENDHOO COUNCIL
Architect:	ISHA
Drafting:	Wafa
Engineer:	NAGEEH
Structural Checker:	ZUHAL
Architectural Checker:	LAYANA
Drawing Title:	AS SHOWN
Issue #:	Date: APR 2023 Pages: 23
Scale:	NTS Paper: A4
Dwg #:	AR2324-S12- REV(A0)

GENERAL NOTES

1. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
3. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND ENSURE THAT NO STRUCTURAL ELEMENT BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES OR OTHER ACCEPTABLE STANDARDS.
5. BASED ON THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL PRODUCE STRUCTURAL SHOP DRAWINGS FOR APPROVAL IF REQUESTED.
6. ALL DIMENSIONS TO STRUCTURAL DRAWINGS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
7. THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110 STRUCTURAL USE OF CONCRETE.
8. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN THE TYPICAL DRAWINGS FOR DETAILS NOT SHOWN SPECIFICALLY.
9. ALL PROPS AND FRAMEWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.
10. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLABS AND BEAMS BY 30MM. THE JOINT SHALL BE FILLED WITH FIBRE BOARD OR COMPRESSIBLE MATERIAL PRESSED METAL COVERING BOTH SIDES OF THE JOINT, AND THE METAL COVERING SHALL BE FIXED TO SOFFIT OF THE BEAM OR SLAB AS THE CASE MAYBE.

FOUNDATIONS

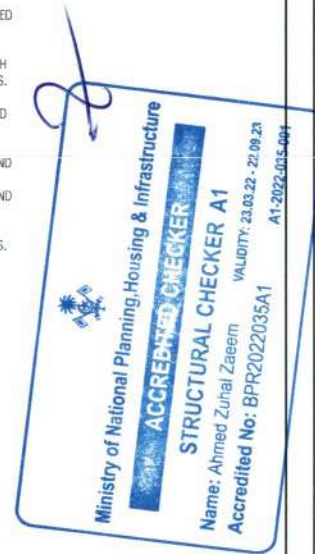
1. ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 kN/m²
2. ALL FOOTINGS SHALL BE PLACED MINIMUM 1.2 m BELOW THE NATURAL GROUND LEVEL UNLESS STATED OTHERWISE.
3. ALL BACKFILL SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
4. WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
5. IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOOTING, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
6. IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING THE SITE, AND LOWERING THE GROUND WATER TO AT LEAST 70CM BELOW LEVEL OF FOUNDATIONS.
7. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD, RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
8. NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.
9. UNLESS OTHERWISE SHOWN ALL FOOTINGS ARE CONCENTRIC TO COLUMNS.

CONCRETE

1. A. ALL INSITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 25 N/mm² TO THE RELEVANT CLAUSES OF BS5328.
B. ALL PLAIN CONCRETE (OR BLINDING)SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm² (EQUIVALENT CYLINDER STRENGTH, Fc = 12 N/mm²), TO THE RELEVANT CLAUSES OF BS538.
2. SULPHATE RESISTING CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH WASTE MATERIALS AND SALT WATER.
3. NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL.
4. CONSTRUCTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
5. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS.
6. SPECIAL RULES REGARDING CONCRETING IN HOT WEATHER SHALL BE OBSERVED.
7. OPENING IN SLABS:
- FOR OPENING LESS THAN 150 x 150 MM, BARS SHALL BE RE-ARRANGED AROUND THE OPENING.
- FOR OPENINGS GREATER THAN 300 x 300 MM BUT LESS THAN 600 x 600 MM AND NOT SHOWN ON PLAN, PROVIDE 2Ø 16 TOP AND BOTTOM ALONG EACH SIDE AND DIAGONALLY AT CORNERS OR AS OTHERWISE DETAILED. AMOUNT OF BARS DISCONTINUED DUE TO THE OPENING SHALL BE PLACED AT THE RESPECTIVE SIDES. OPENINGS GREATER THAN 600 X 600 MM AND NOT SHOWN ON PLAN SHALL BE APPROVED.
8. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.

REINFORCEMENT

1. HIGH STRENGTH DEFORMED BARS DENOTED T SHALL CONFIRM TO BS-4449 WITH MINIMUM YIELD STRENGTH Fy = 450 N/mm², MILD STEEL DENOTED R SHALL HAVE 250 N/mm² YIELD STRENGTH, WELDED WIRE MESH SHALL COMPLY WITH BS-4483.
2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN OR AS OTHERWISE APPROVED.
3. SPACER BARS SHALL BE PROVIDED AT 100 cm CENTERS WHEREVER REINFORCEMENT IS PLACED IN MORE THAN ONE LAYER, UNLESS STATED OTHERWISE.
4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED, IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
5. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
6. TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH Fy = 450 N/mm² AND Fcu = 25 N/mm², (CUBE STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE:
MENTIONED IN DRAWINGS:
6.1 BASIC TENSION DEVELOPMENT LENGTH, LD = 45 x BAR Ø
6.2 MINIMUM COMPRESSION DEVELOPMENT LENGTH, LDC = 40 x BAR Ø (OR 300MM WHICH EVER IS MORE).



SM

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NOTES

NO.	DESCRIPTION	DATE
REV 00	ISSUED FOR REVIEW	12-APR-23

GYM & OFFICE

PROPOSED TWO STOREY GYM AND OFFICES AT B. KENDHOO

Client:	KENDHOO COUNCIL
Architect:	ISHA
Drafting:	WAFI
Engineer:	NASEEH
Structural Checker:	ZUHAIR
Architectural Checker:	LAYANA

Drawing Title:	AS SHOWN
Issue IFR:	Date: APR. 2023 Pages: 23
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