DEVELOPMENT OF SMIU CAMPUS KARACHI



TENDER DRAWINGS VOLUME - IV



IT BLOCK City Campus June 2018



DEVELOPMENT OF SMIU CAMPUS KARACHI



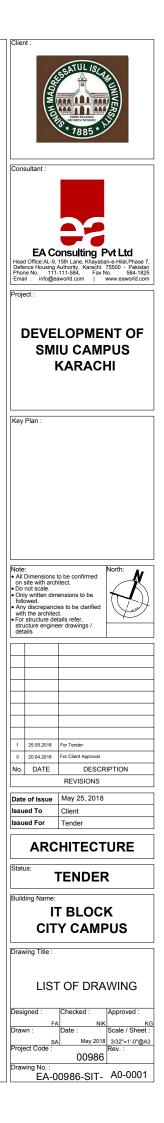
TENDER DRAWINGS Architecture



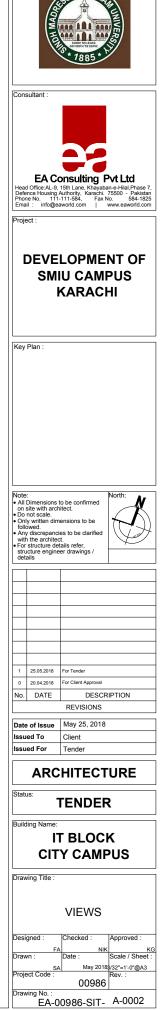
IT BLOCK City Campus



S.#	DRAWING NO.	DRAWING TITLE
	A0 - GENERAL DR	AWINGS
1	EA-986-SIT-A0-000	TITLE SHEET
2	EA-986-SIT-A0-0001	LIST OF DRAWINGS
3	EA-986-SIT-A0-0002	VIEWS
4	EA-986-SIT-A0-0003	MASTER PLAN (LOCATION PLAN)
5	EA-986-SIT-A0-0004	SITE PLAN & SETTING OUT PLAN
	A1 - ARCHITECTUR	RAL PLANS
1	EA-986-SIT-A1-0100	GROUND FLOOR PLAN
2	EA-986-SIT-A1-0010	BASEMENT FLOOR PLAN
3	EA-986-SIT-A1-0200	FIRST FLOOR PLAN
4	EA-986-SIT-A1-0300	SECOND FLOOR PLAN
5	EA-986-SIT-A1-0400	THIRD FLOOR PLAN
6	EA-986-SIT-A1-0500	FOURTH FLOOR PLAN
7	EA-986-SIT-A1-0600	FIFTH FLOOR PLAN
8	EA-986-SIT-A1-0700	SIXTH FLOOR PLAN
9	EA-986-SIT-A1-0800	ROOF PLAN
	A2 - SECTIONS	
1	EA-986-SIT-A2-0010	SECTIONS A-A
2	EA-986-SIT-A2-0020	SECTIONS B-B
3	EA-986-SIT-A2-0030	SECTIONS C-C
-		
	A3 - ELEVATIONS	
1	EA-986-SIT-A3-0010	ELEVATIONS 01
2	EA-986-SIT-A3-0020	ELEVATIONS 02 & 04
3	EA-986-SIT-A3-0030	ELEVATIONS 03
	A6 - SCHEDULE	
1	EA-986-SIT-A6-0010	DOORS & WINDOWS SCHEDULE
2	EA-986-SIT-A6-0020	DOORS PLANS AND ELEVATIONS
3	EA-986-SIT-A6-0030	WINDOWS & VENTILATORS PLANS AND ELEVATIONS
4	EA-986-SIT-A6-0040	FINISHES SCHEDULE
	A8 - REFLECTED C	
1	EA-986-SIT-A8-0100	GROUND FLOOR CEILING PLAN
2	EA-986-SIT-A8-0200	FIRST FLOOR CEILING PLAN
3	EA-986-SIT-A8-0300	SECOND FLOOR CEILING PLAN
4	EA-986-SIT-A8-0400	THIRD FLOOR CEILING PLAN
5	EA-986-SIT-A8-0500	FOURTH FLOOR CEILING PLAN FIFTH FLOOR CEILING PLAN
6	EA-986-SIT-A8-0600	

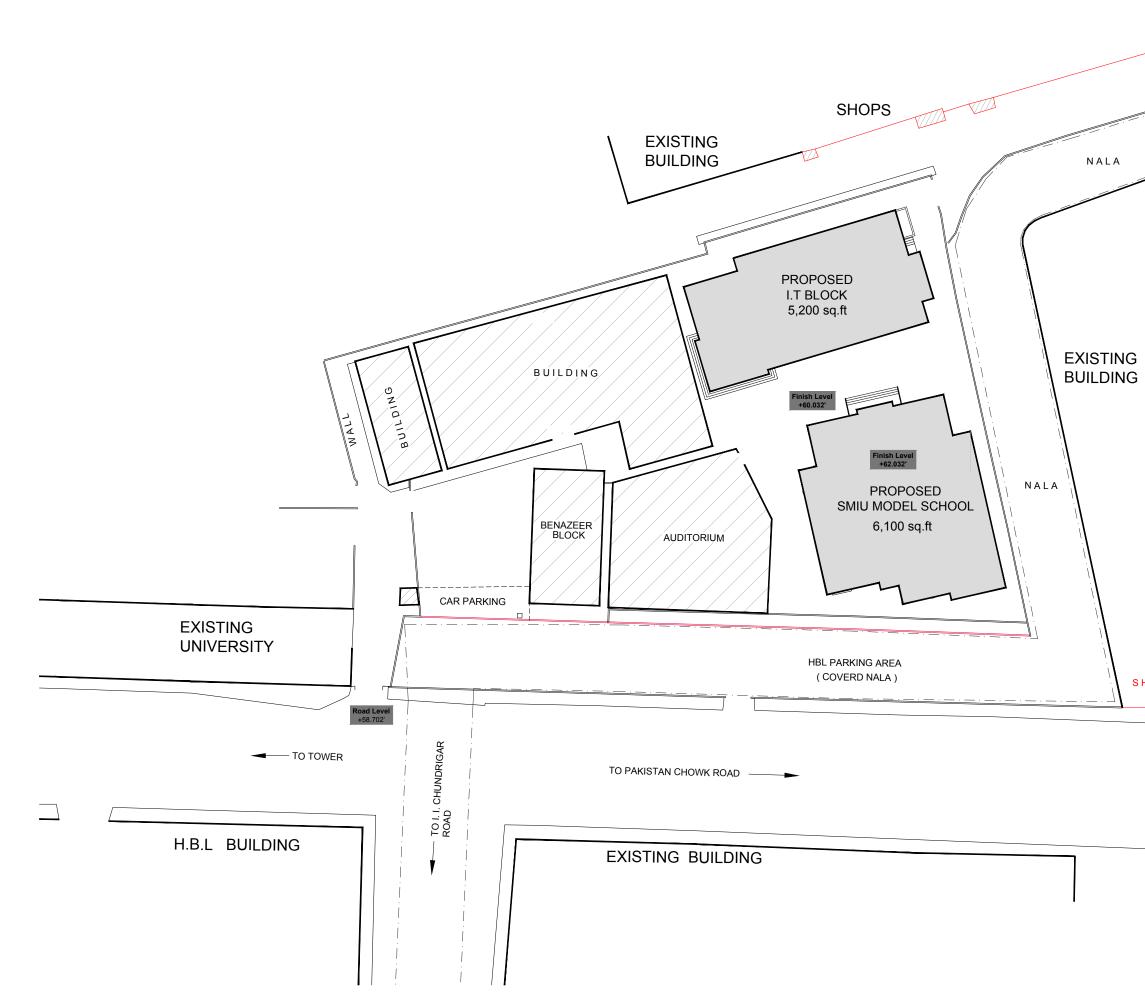






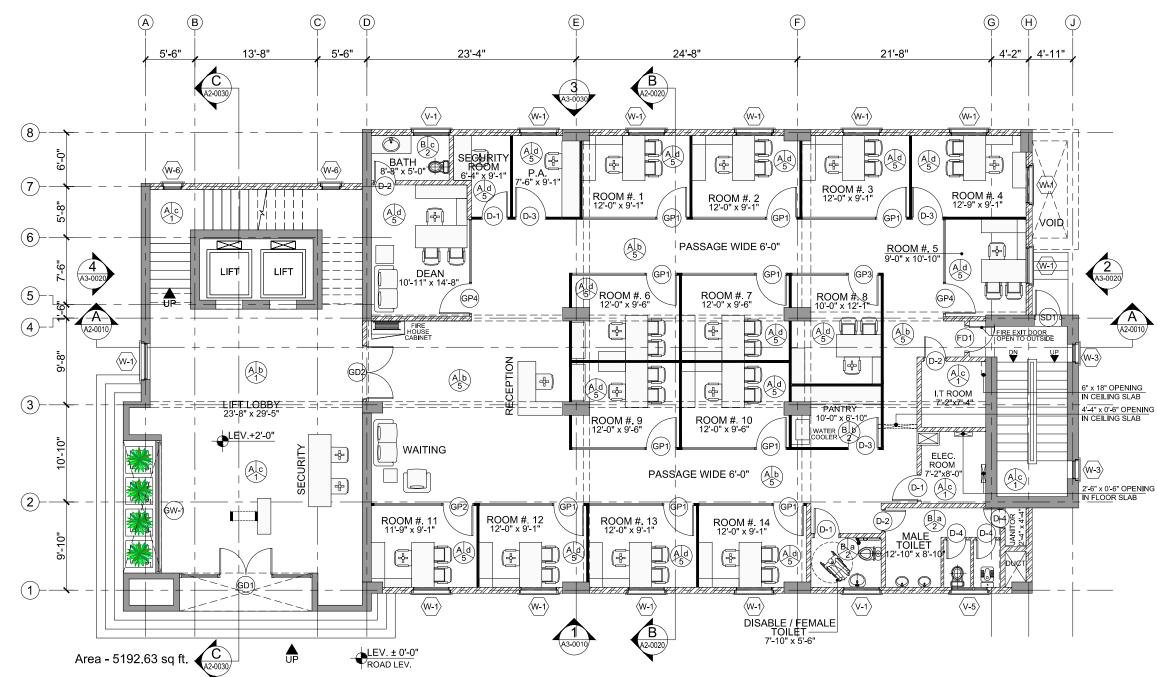
Client

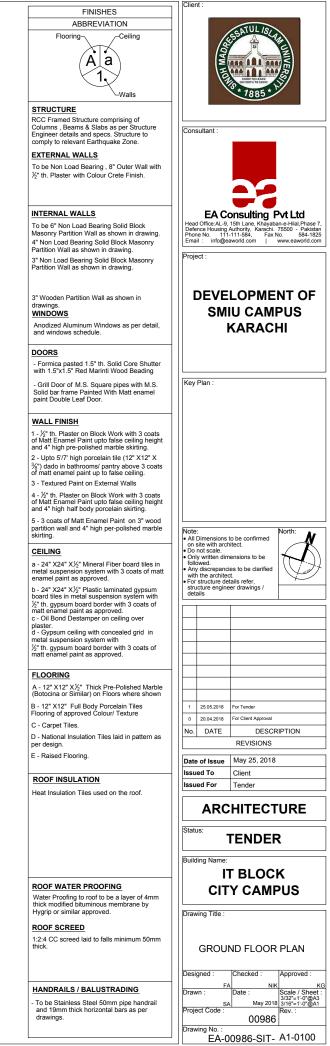




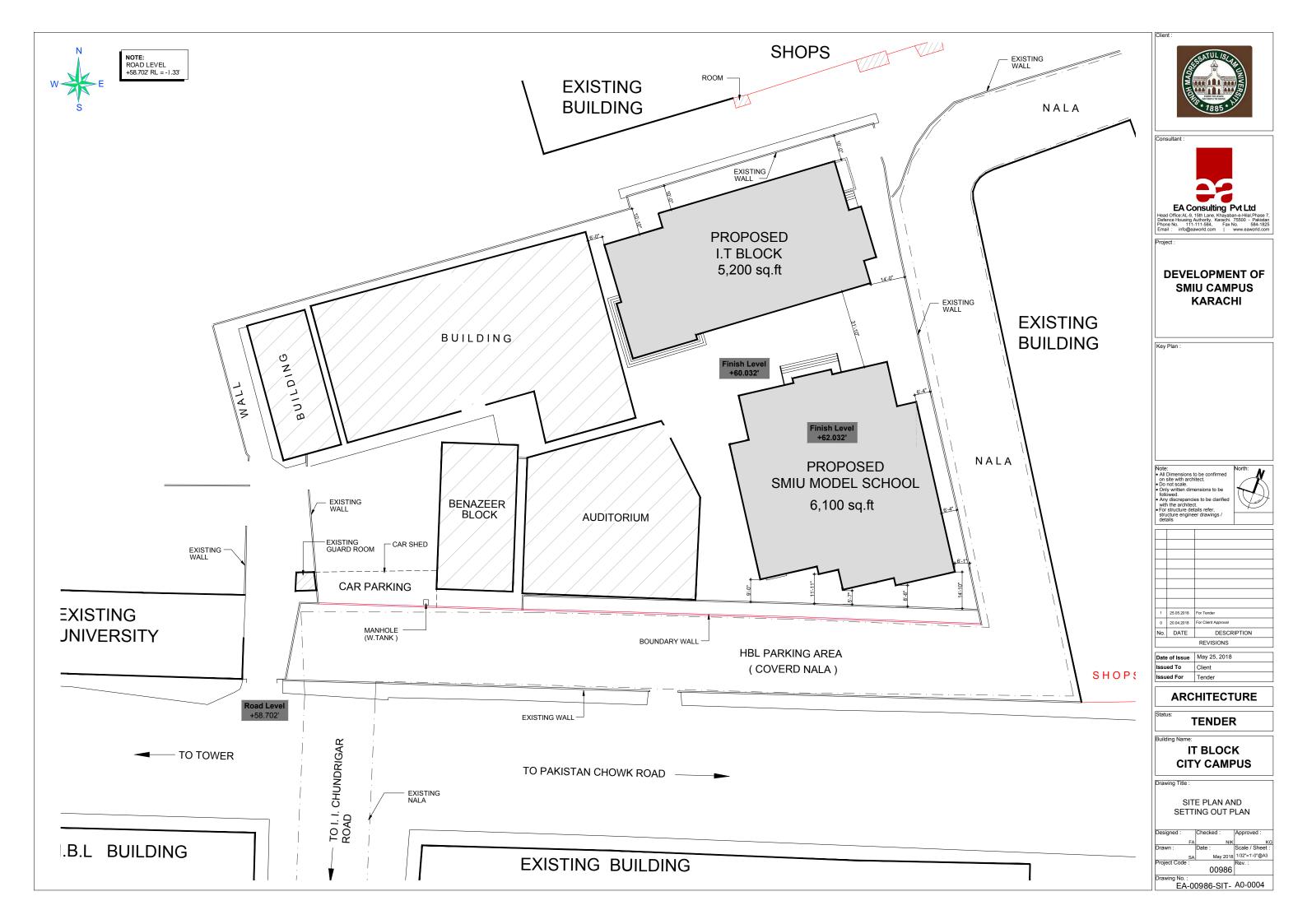
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Hea Defe Phoi Ema	d Office:AL-9, ence Housing ne No. 111 ail : info@e ect : DEVE SM	Ish Lane, Khayabane-Hilal Phase 7, Authority, Karachi. 75500 - Pakistan 111-584, Fax No. 584-1825 aworld.com www.eaworld.com
Key	Plan :	
on • Do • On foll • An witi • For stru	Dimensions site with arch not scale. ly written dim owed. y discrepanc h the archited structure de	tensions to be tes to be clarified
1 0 No.	DATE	For Tender For Client Approval DESCRIPTION REVISIONS
lssu	ied To	May 25, 2018 Client
Issu	ed For	Tender
Stat	us:	
Buik	ding Name:	TENDER
	Г	T BLOCK Y CAMPUS
Drav	ving Title :	
	MA	ASTER PLAN
	igned : FA vn :	
Proje	S/ ect Code :	NKK KG Date : Scale / Sheet : May 2018 3/128"=1'-0"@A3 Rev. : 00986
Drav	vina No. :	0986-SIT- A0-0003

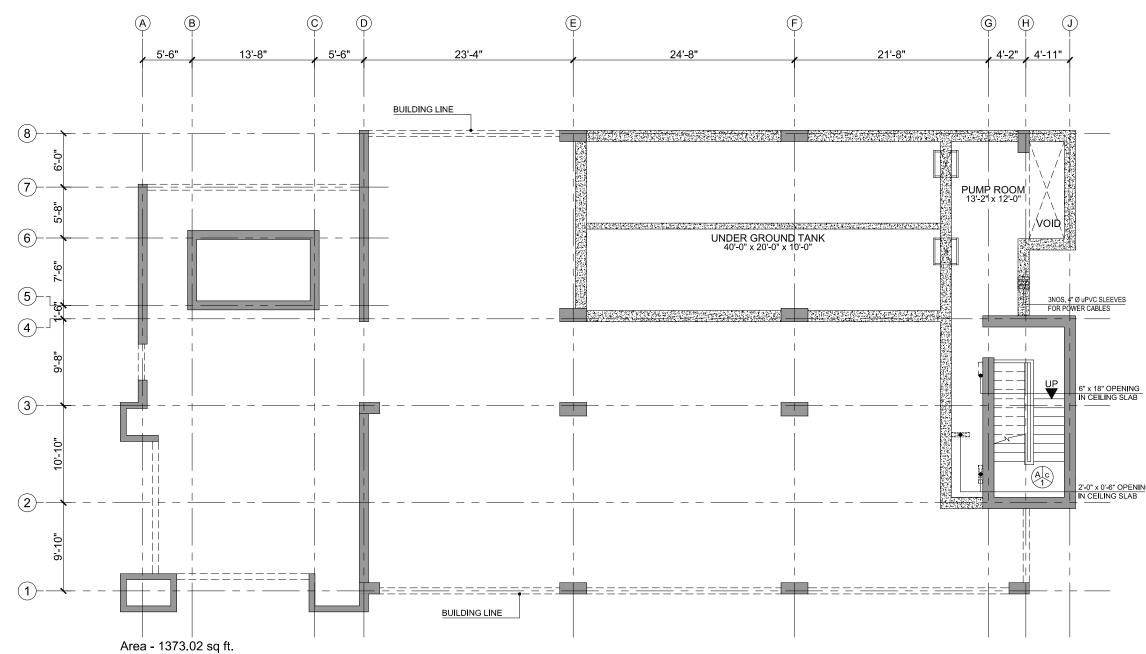
SHOPS



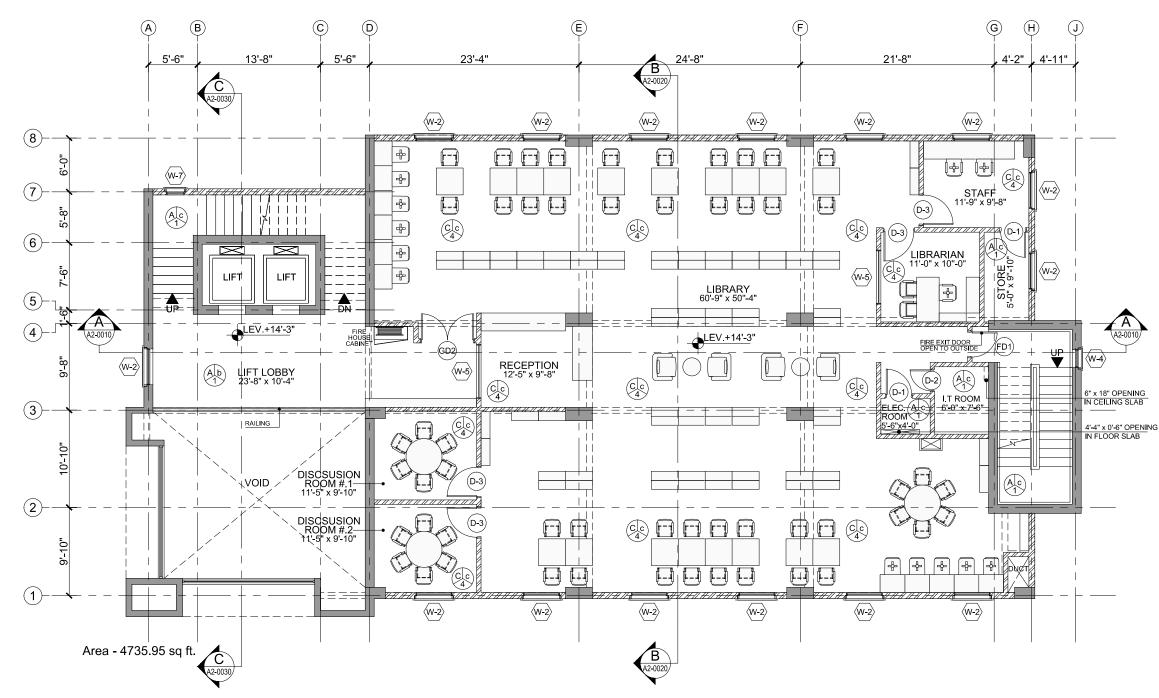


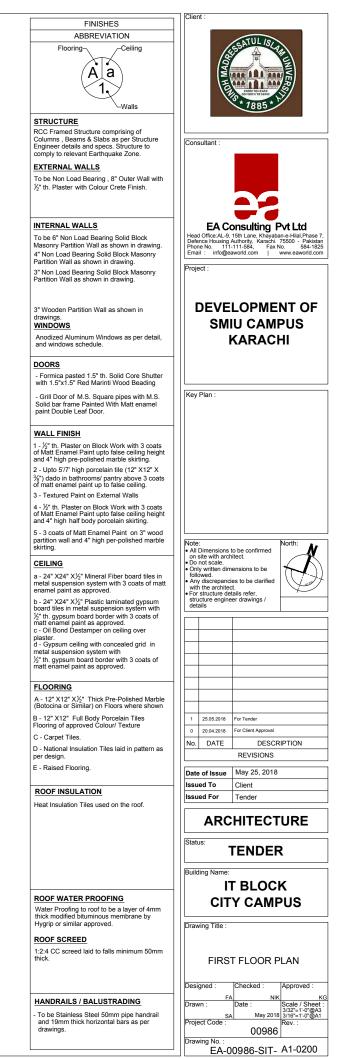


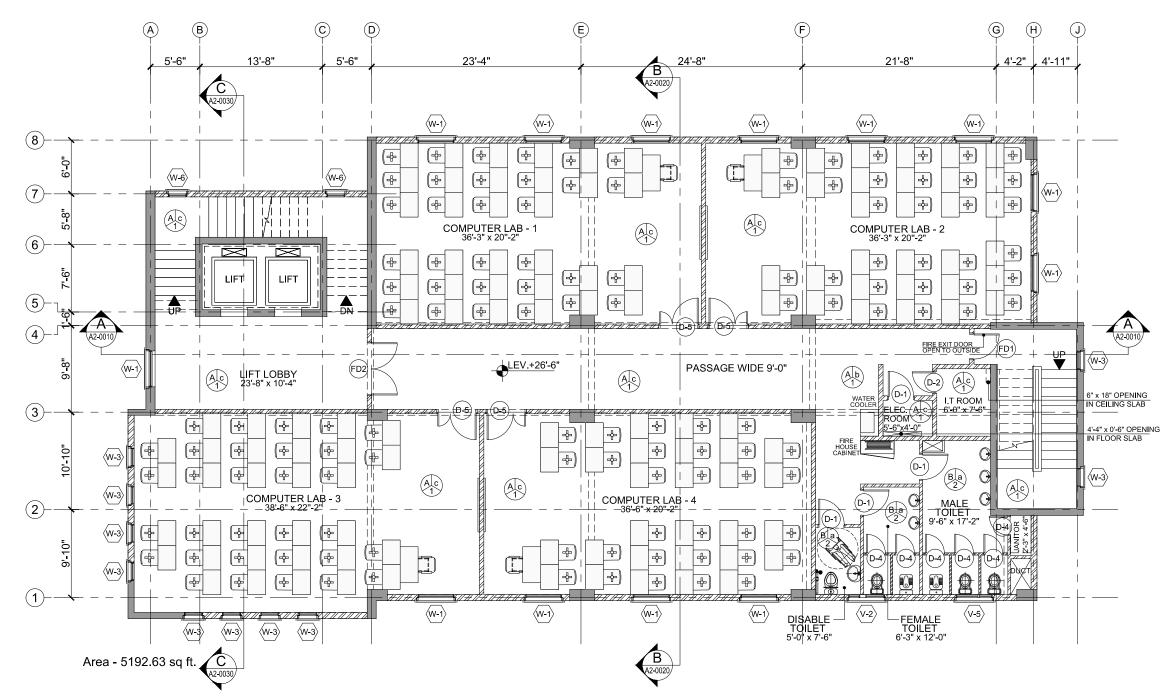


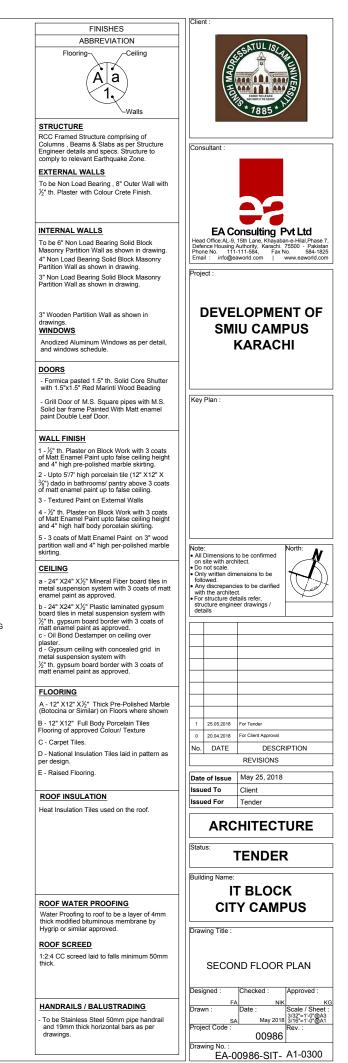


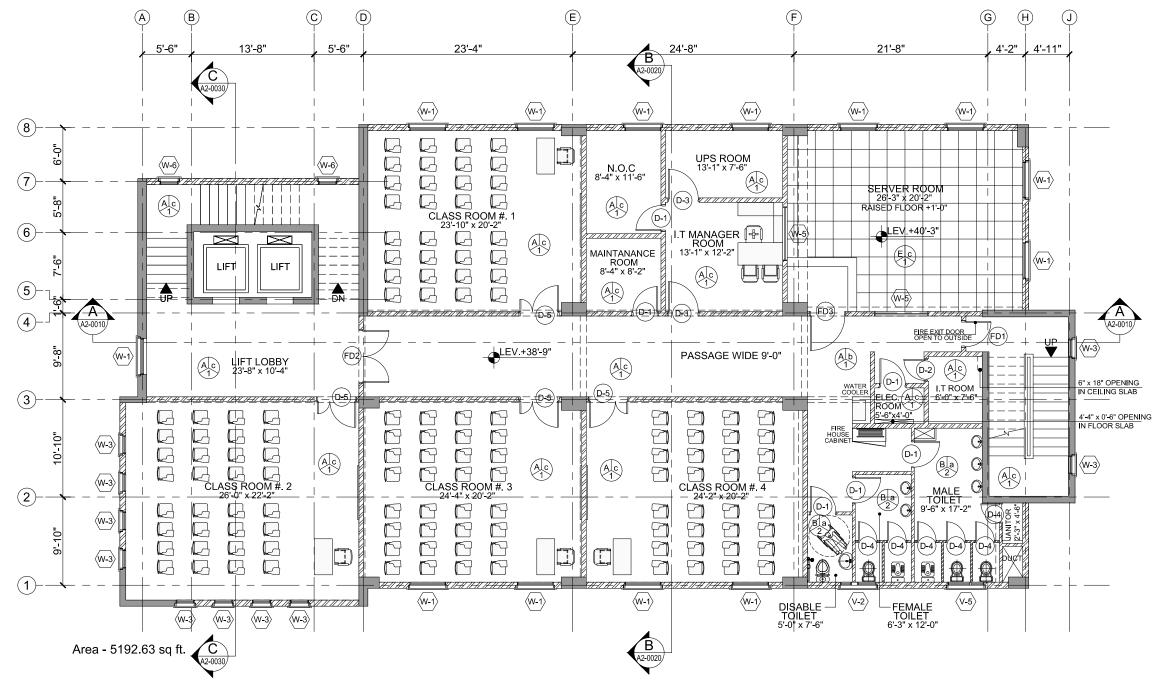
		Client :
	FINISHES ABBREVIATION Flooring A a 1 Walls STRUCTURE	AND
	RCC Framed Structure comprising of Columns, Beams & Slabs as per Structure Engineer details and spece. Structure to comply to relevant Earthquake Zone. EXTERNAL WALLS To be Non Load Bearing , 8" Outer Wall with ½" th. Plaster with Colour Crete Finish.	Consultant : EA Consulting Pvt Ltd
	To be 6" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing. 4" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing. 3" Non Load Bearing Solid Block Masonry Partition Wall as shown in drawing.	Head Office AL-9, 150-01170 Deficiency in the Lance (Nanoburne-Hull, Pisser 7, 1 Deficiency international position) Paintan Phone No. 111-111-54, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
	3" Wooden Partition Wall as shown in drawings. <u>WINDOWS</u> Anodized Aluminum Windows as per detail, and windows schedule. <u>DOORS</u>	DEVELOPMENT OF SMIU CAMPUS KARACHI
	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading Grill Door of M.S. Square pipes with M.S. Solid bar frame Painted With Matt enamel paint Double Leaf Door.	Key Plan :
	WALL FINISH 1 - ½" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high pre-polished marble skirting. 2 - Upto 5/"r high porcelain tile (12" X12" X ½" dado in bathrooms/ paritry above 3 coats of matt enamel paint up to false ceiling. 3 - Textured Paint on External Walls 4 - ½" th. Plaster on Block Work with 3 coats of Matt Enamel Paint upto false ceiling height and 4" high half body porcelain skirting. 5 - 3 coats of Matt Enamel Paint on 3" wood	
-	S - totats of mail and 4" high per-polished marble skirting. CELLING a - 24" X24" X½" Mineral Fiber board tiles in metal suspension system with 3 coats of matt enamel paint as approved. b - 24" X24" X½" Plastic laminated gypsum board tiles in metal suspension system with %" th gypsum board border with 3 coats of matt enamel paint as approved. c - Oil Bond Destamper on ceiling over plaster. d - Gypsum ceiling with concealed grid in metal suspension system with %" th, gypsum board border with 3 coats of matt enamel paint as approved.	Note: • All Dimensions to be confirmed on site with architect. • On on to scale. • Only written dimensions to be followed. • For structure details refer, structure details refer, structure details refer, structure details
ŊG	FLOORING A - 12" X12" X½" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown B - 12" X12" Full Body Porcelain Tiles Flooring of approved Colour/ Texture C - Carpet Tiles. D - National Insulation Tiles Iaid in pattern as per design. E - Raised Flooring.	1 25.05.2018 For Tender 0 20.04.2018 For Client Approval No. DATE DESCRIPTION REVISIONS Date of Issue May 25, 2018
	ROOF INSULATION Heat Insulation Tiles used on the roof.	Issued To Client Issued For Tender
		Status:
		TENDER
	ROOF WATER PROOFING Water Proofing to roof to be a layer of 4mm thick modified bituminous membrane by Hygrip or similar approved.	IT BLOCK CITY CAMPUS
	ROOF SCREED 1:2:4 CC screed laid to falls minimum 50mm thick.	BASEMENT FLOOR PLAN Designed : Checked : Approved :
		FA NIK KG
	HANDRAILS / BALUSTRADING - To be Stainless Steel 50mm pipe handrail and 19mm thick horizontal bars as per drawings.	Drawn : Date : Scale / Sheet : 322 + 10^{-0}@A3 3/36 + 10^{-0}@A3 Project Code : Rev. : 00986 Rev. : Drawing No. : EA-00986-SIT- A1-0010

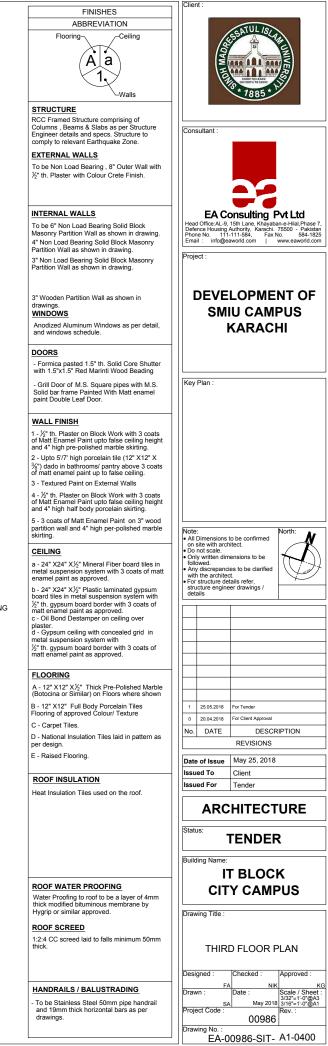




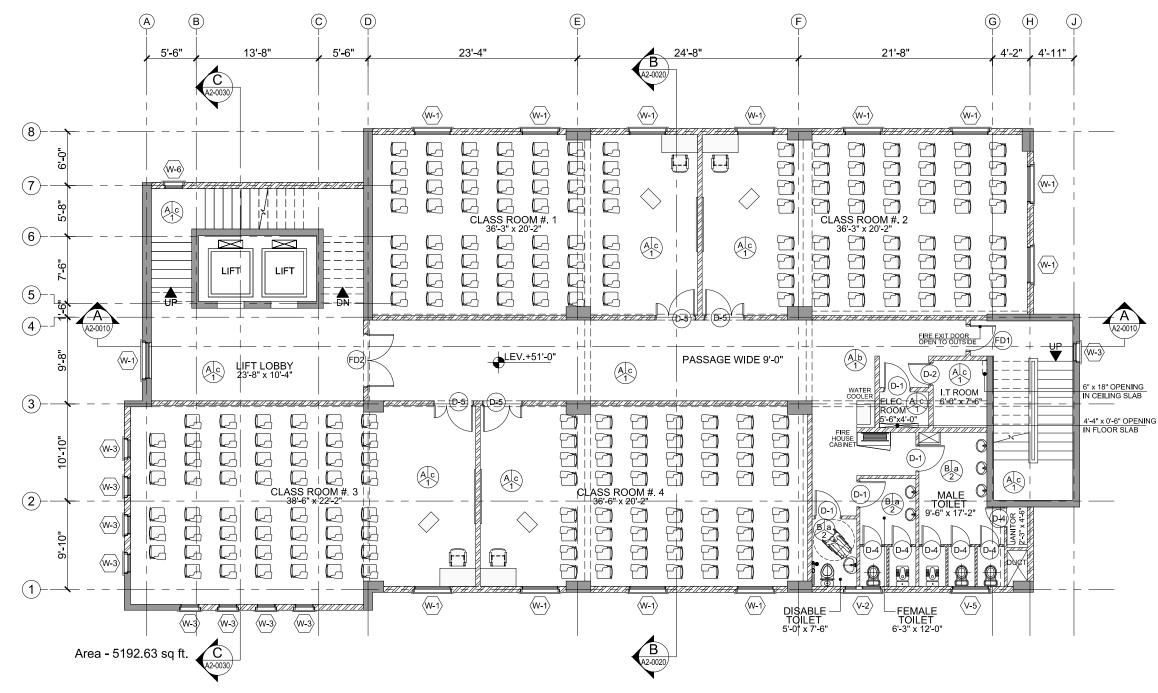


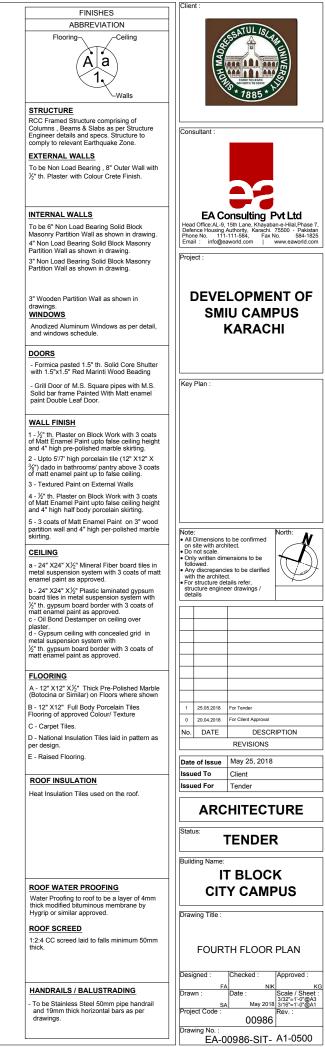




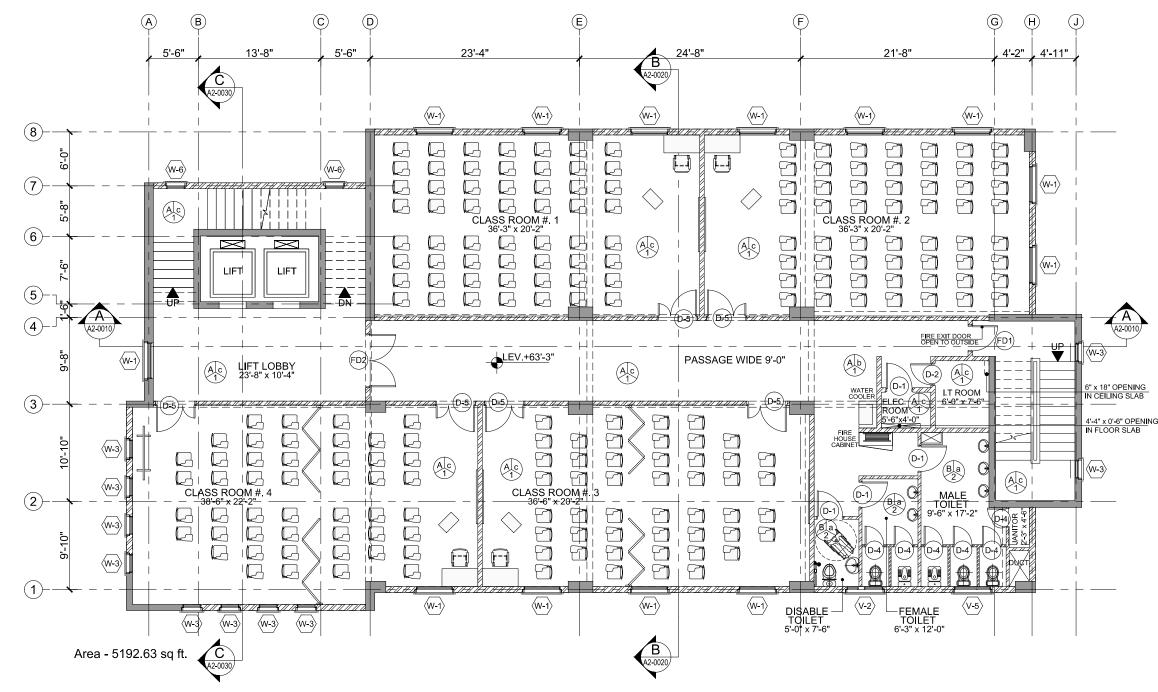


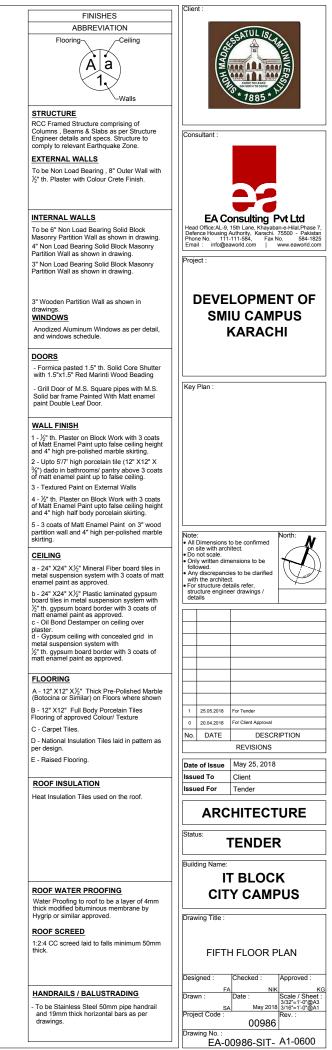


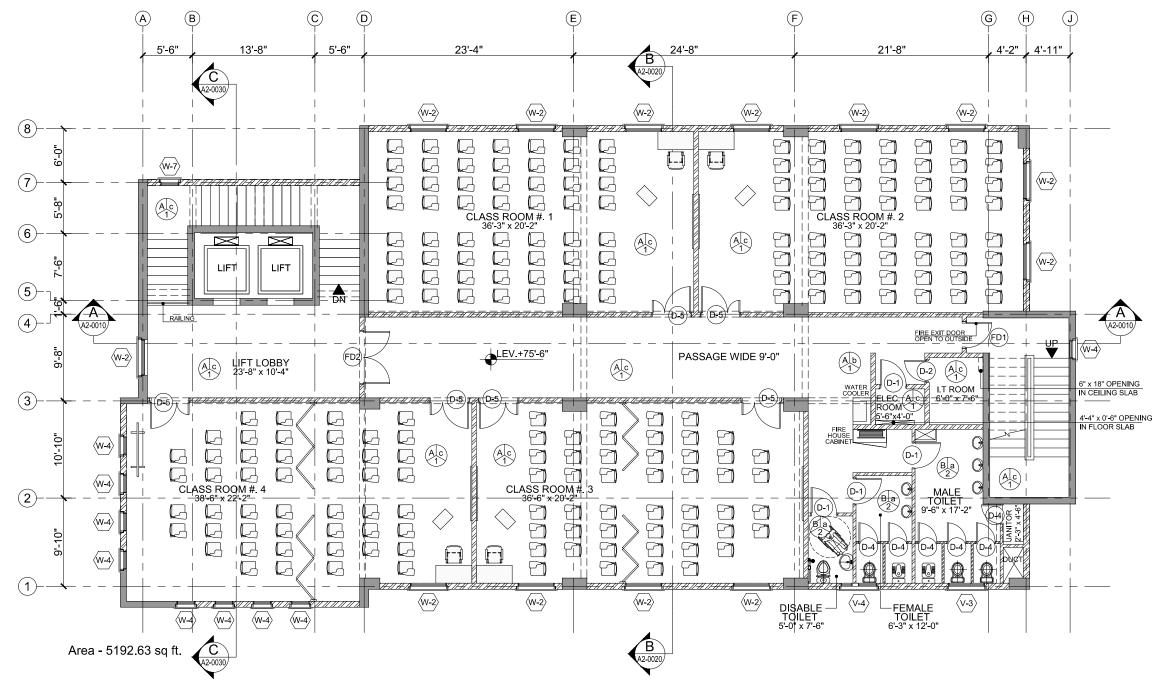


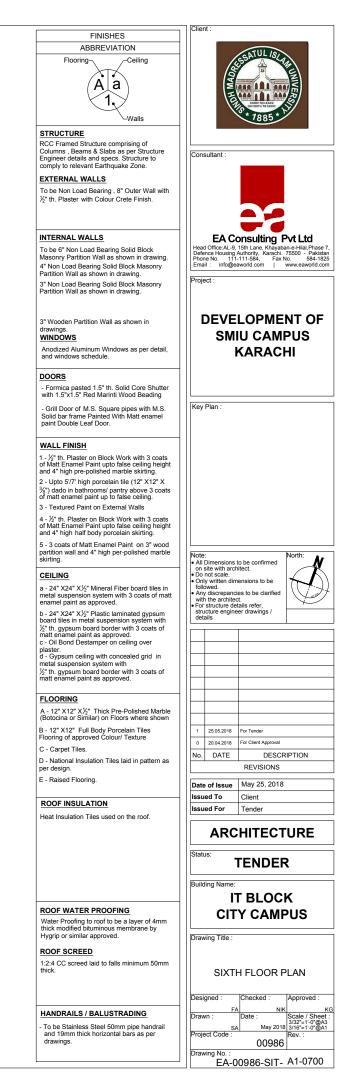


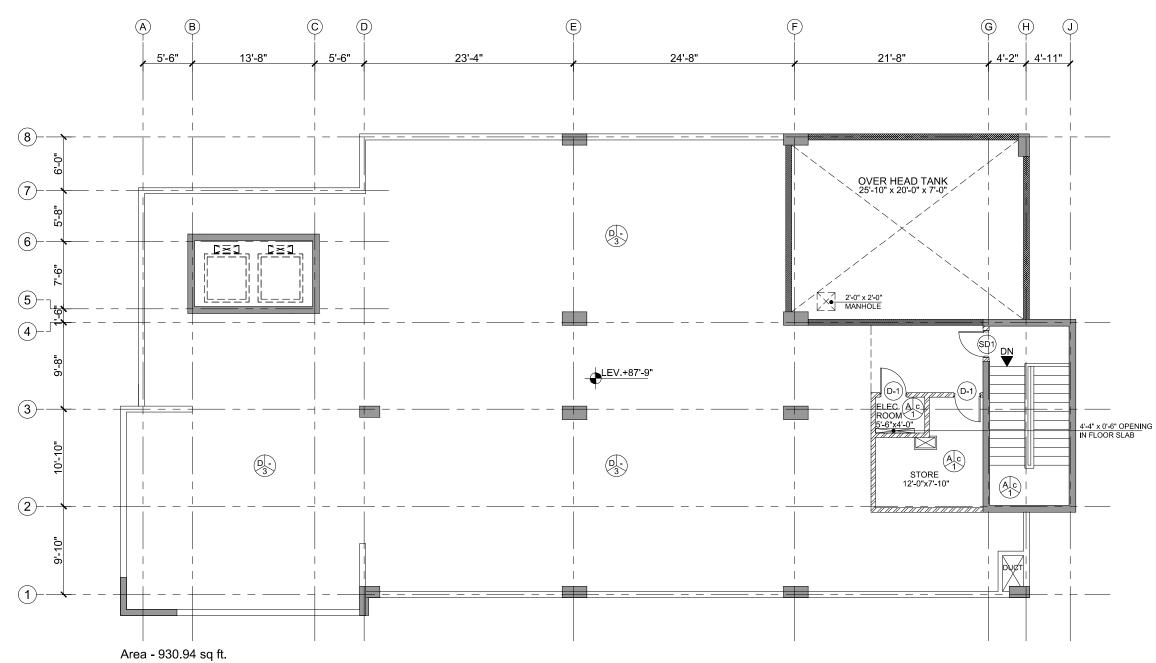


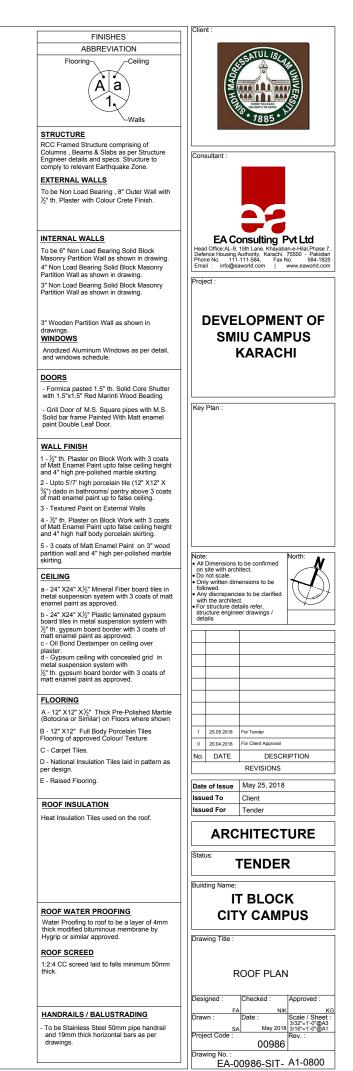


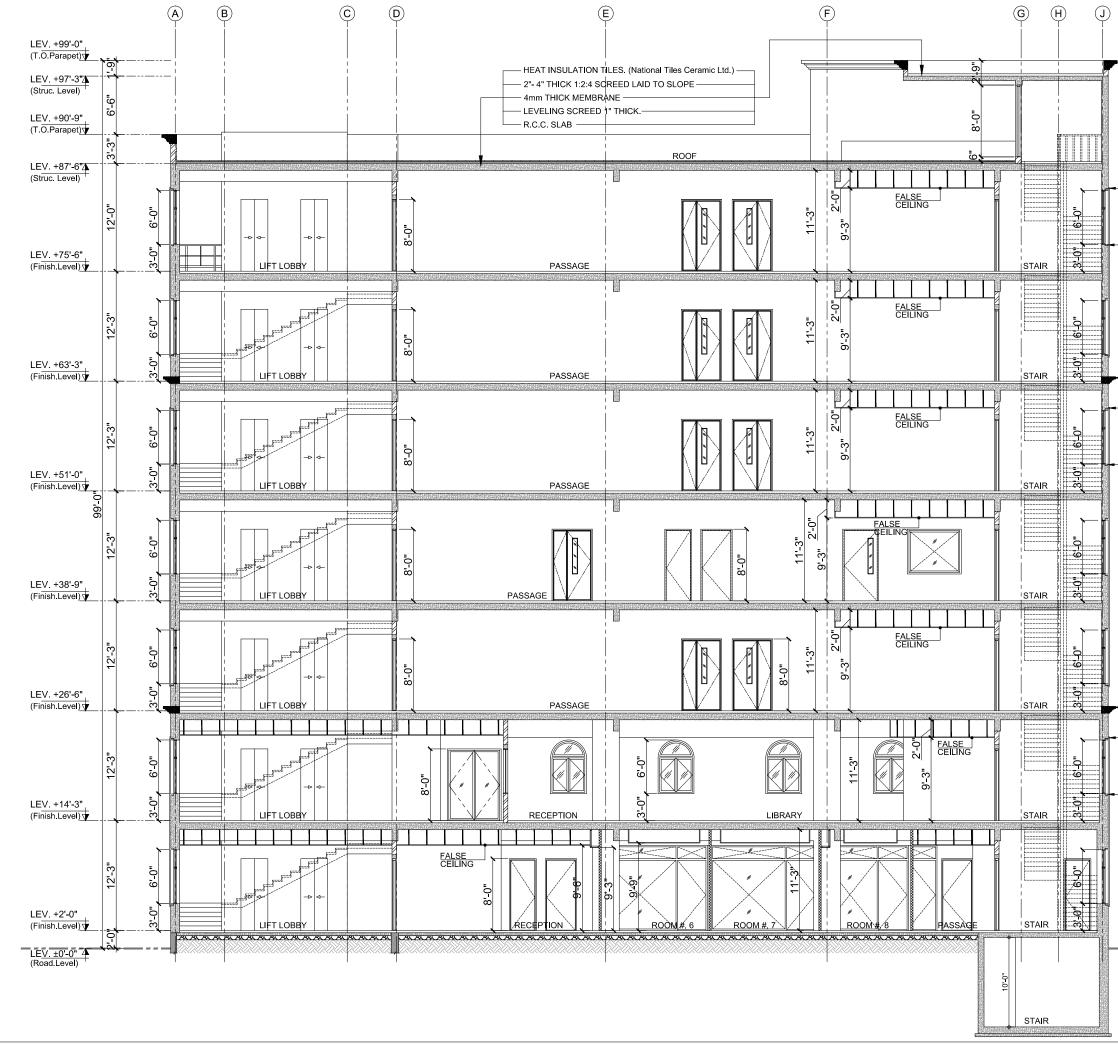




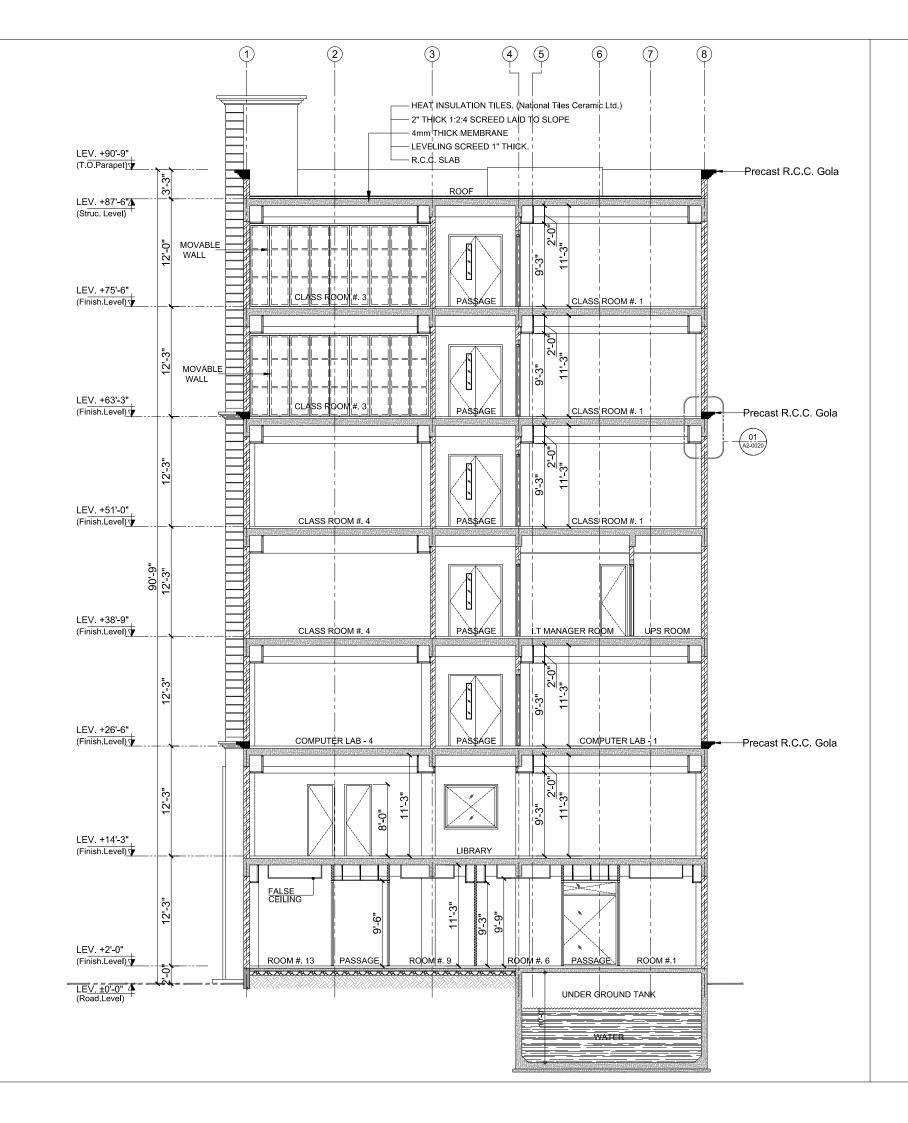


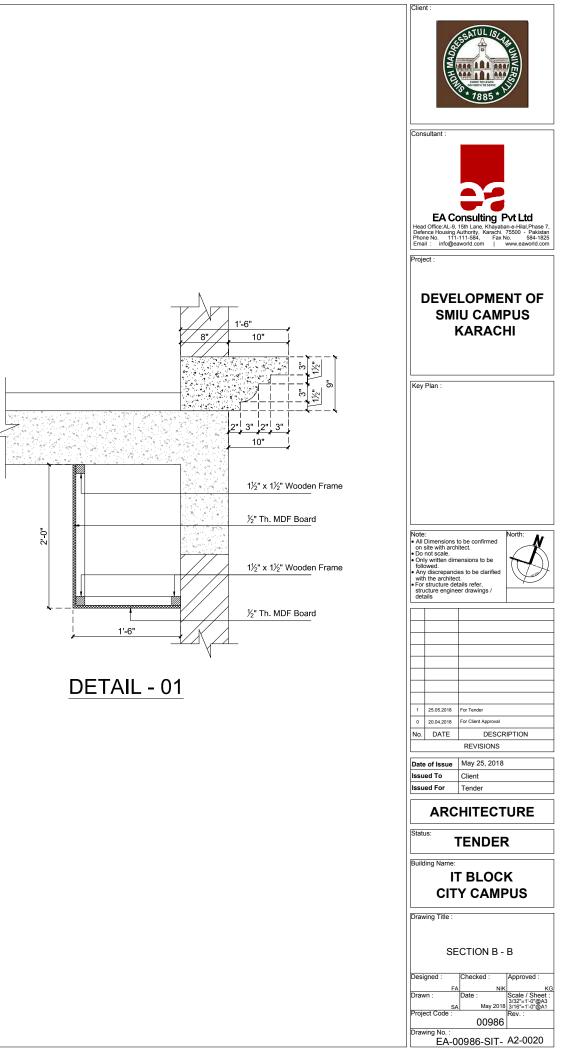


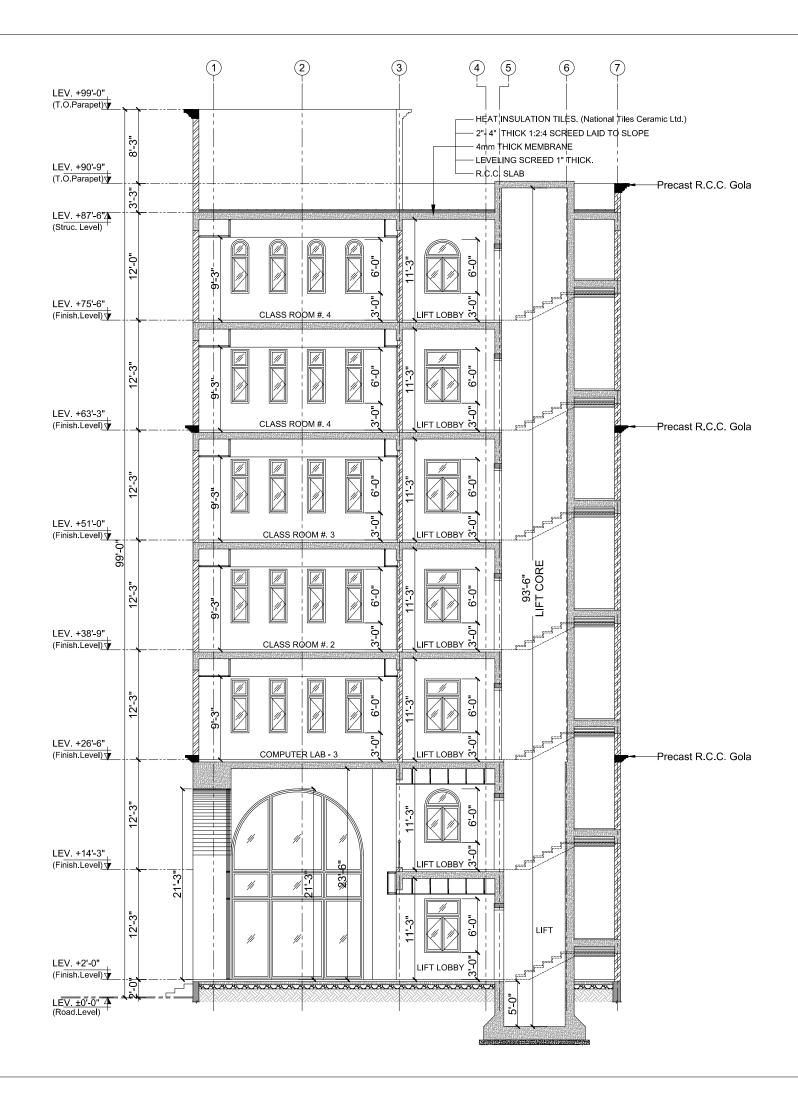


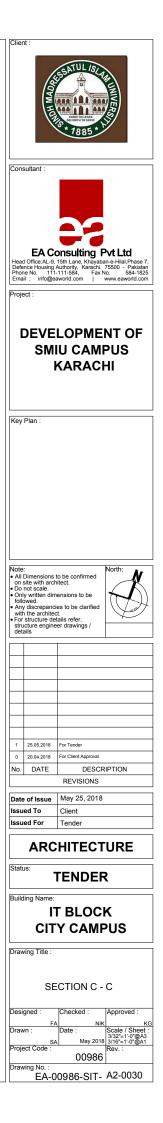


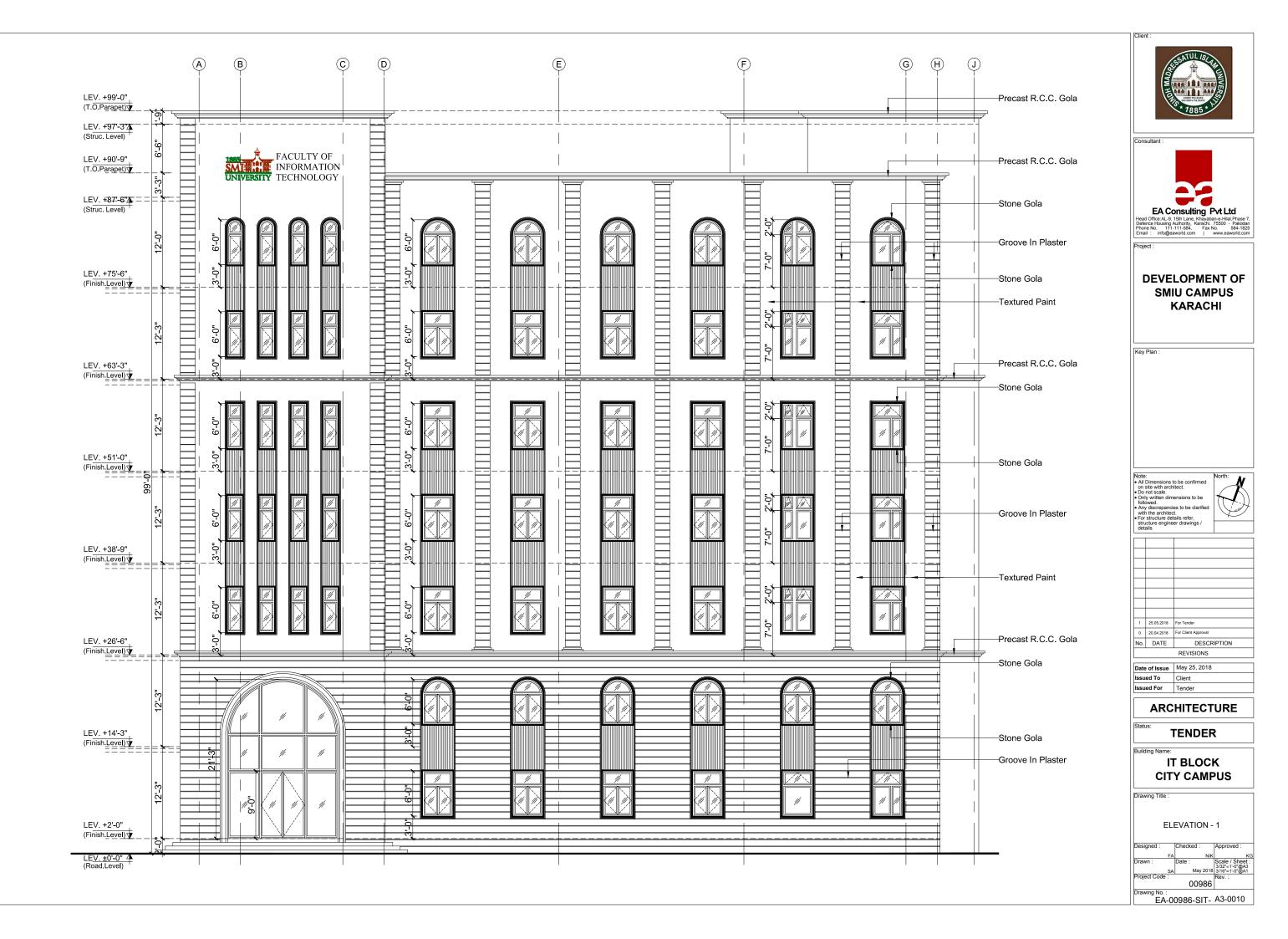
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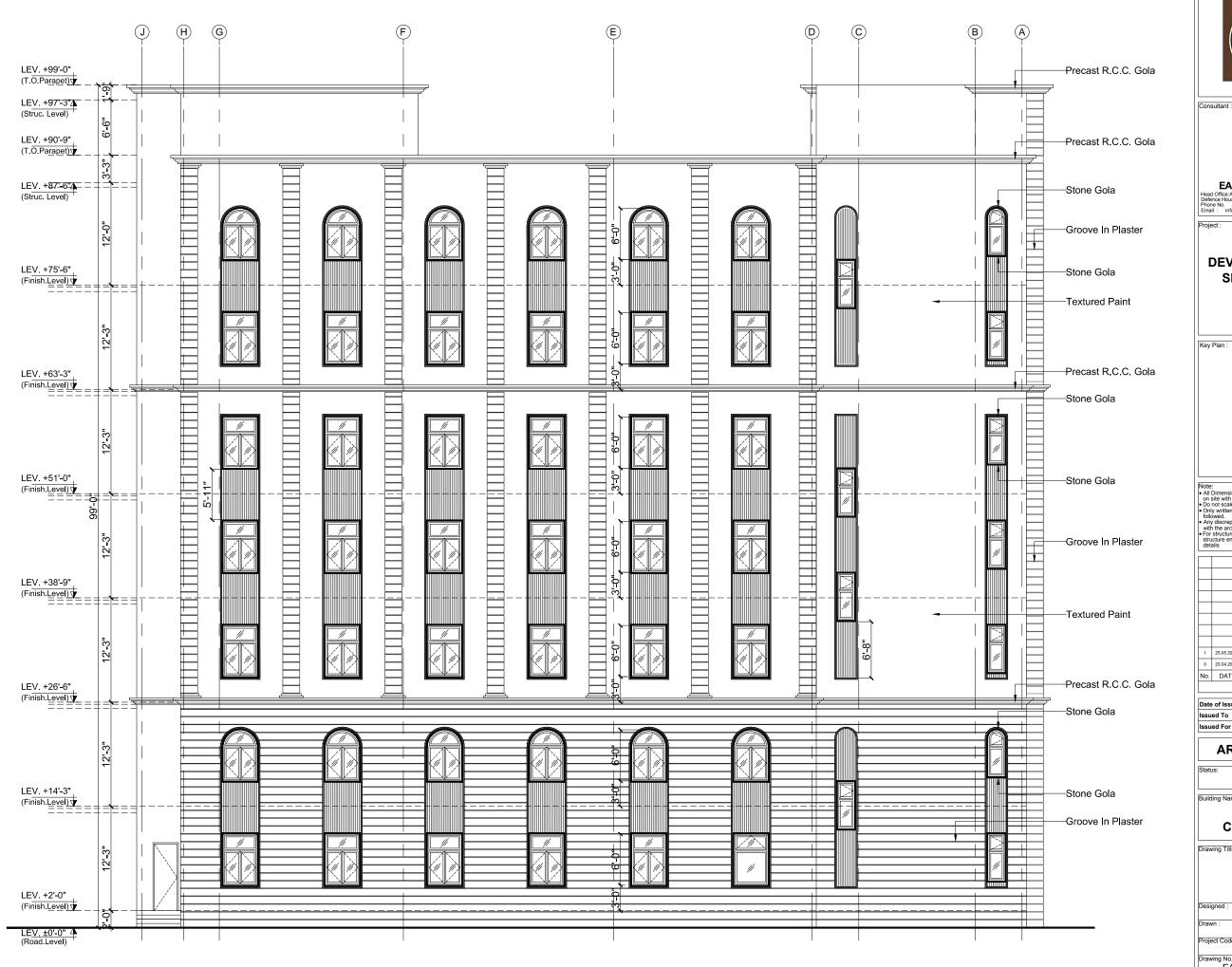












Con	sultant :		
	EA Co d Office:AL-9, nce Housing No. 111	15th Lane, Khayaba Authority, Karachi. -111-584, Fax N	Vt Ltd In-e-Hilal, Phase 75500 - Pakist Io. 584-18 vww.eawordd.cr
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Client

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ELEVATION - 3

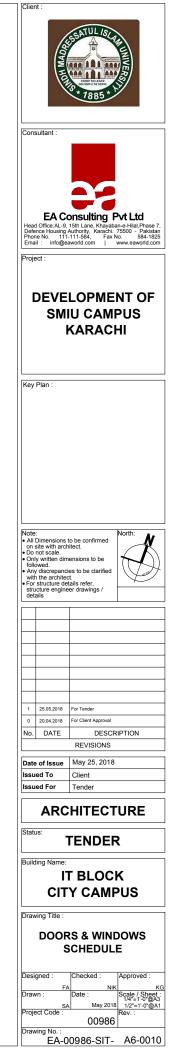
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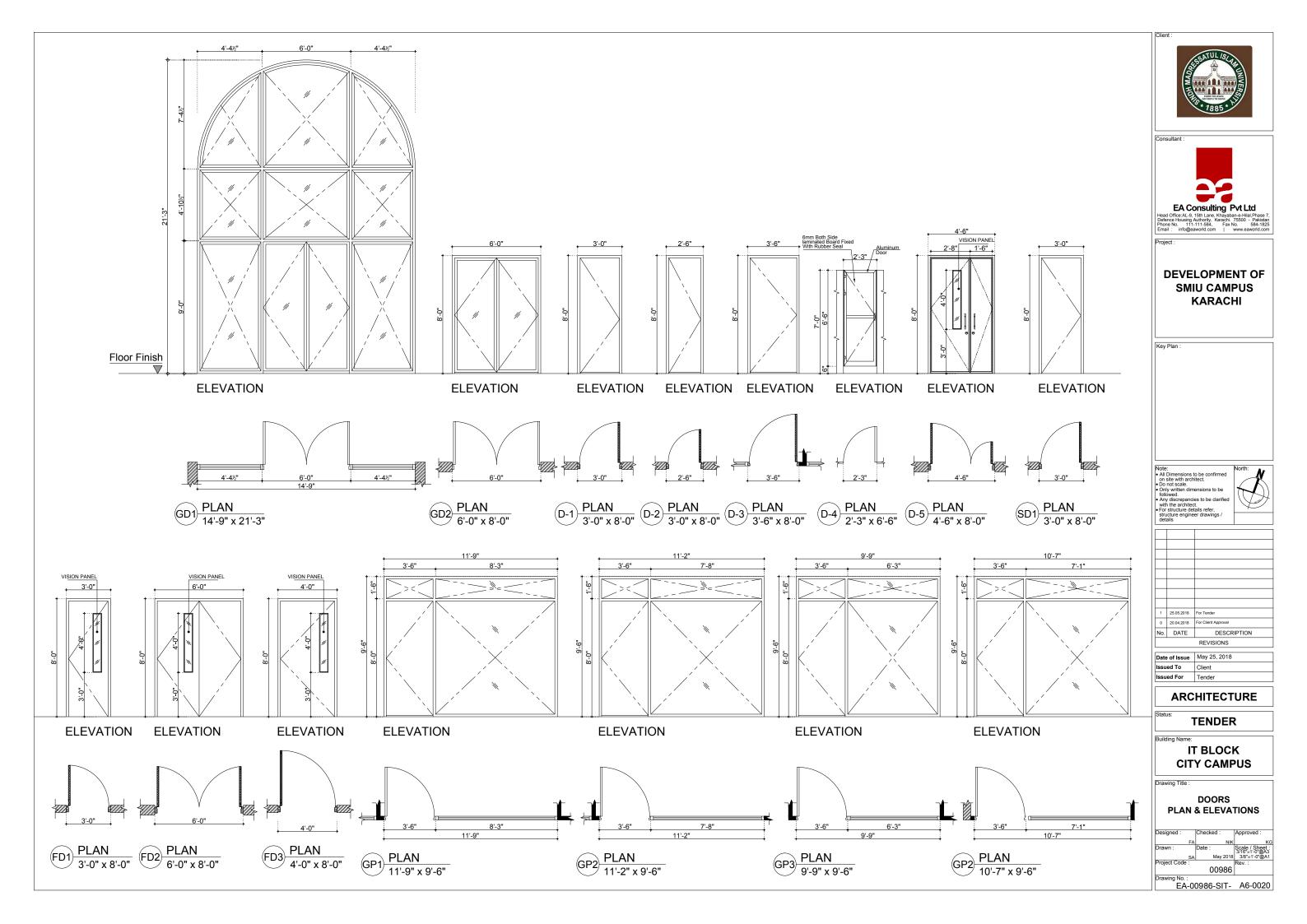
SCHEDULE OF DOORS, WINDOWS & VENTILATORS

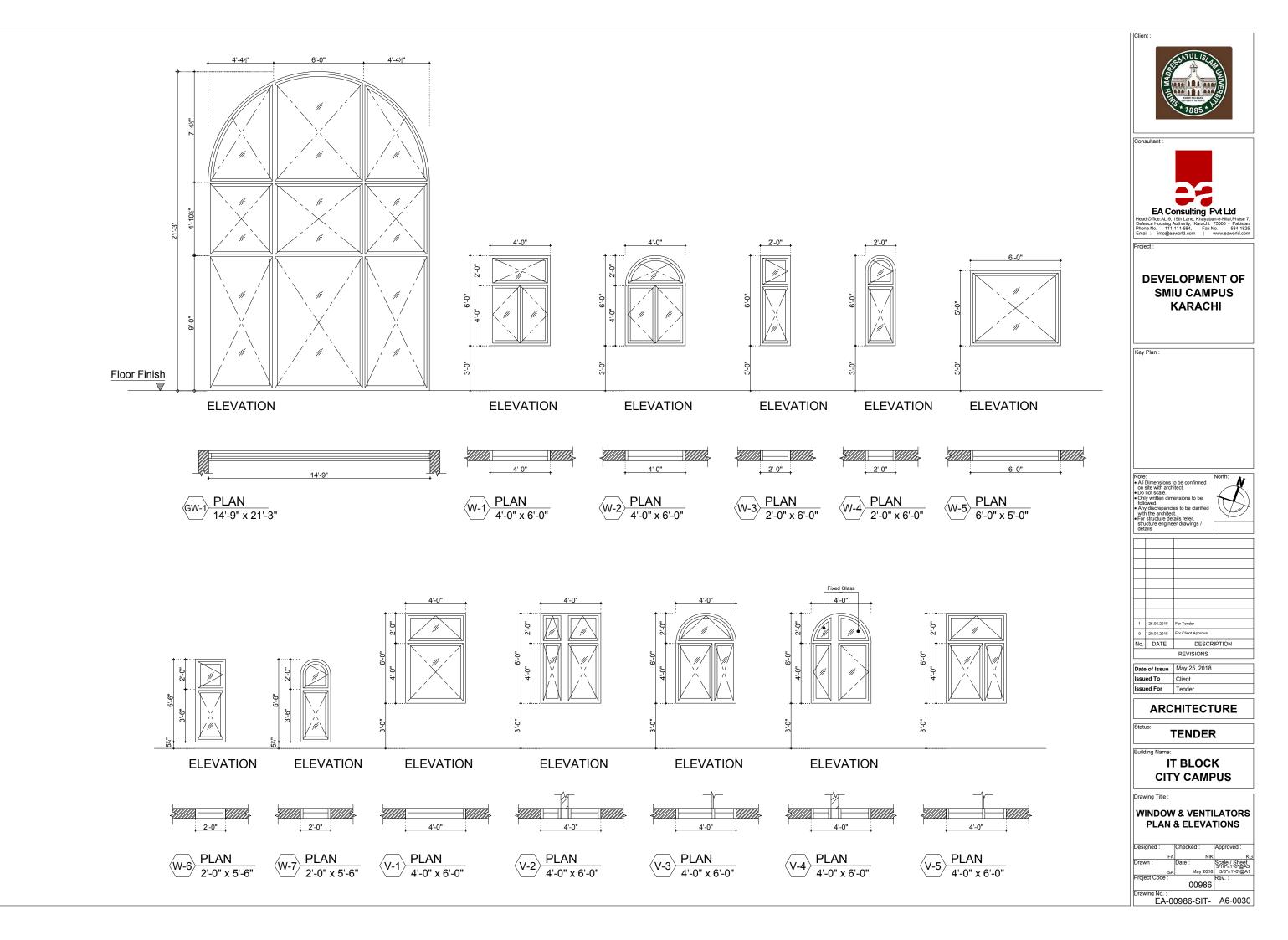
Schedule Of Doors

					•														
S.#	Doors Type	Siz Width	es Height	Ground Floor	First Floor	Second Floor	Third Floor	Fourth Floor	Fifth Floor	Sixth Floor	Roof Floor	Total No.	Туре	Material	Finishes	Frame	Frame Finish	Hardware	Note
01	GD-01	14'-9"	21'-3"	01	-	_	-	-	-	-	-	01	Double Leaf	Black anodized Aluminum Deluxe sections with 8 mm th: clear glass.					
02	GD-02	6'-0"	8'-0"	01	01	-	-	-	-	-	-	02	Double Leaf	Black anodized Aluminum Deluxe sections with 8 mm th: clear glass.					
03	D-01	3'-0"	8'-0"	03	02	04	06	04	04	04	02	29	Single Leaf	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	I Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
04	D-02	2'-6"	8'-0"	03	01	01	01	01	01	01	-	09	Single Leaf	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
05	D-03	3'-6"	8'-0"	03	04	-	02	-	-	-	-	09	Single Leaf	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
06	D-04	2'-3"	6'-6"	03	-	06	06	06	06	06	-	33	Single Leaf	Anodized Aluminum section frame with Laminated board panels.	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
07	D-05	4'-6"	8'-0"	-	-	04	04	04	06	06	-	24	Double Leaf	Formica pasted 1.5" th. Solid Core Shutter with 1.5"x1.5" Red Marinti Wood Beading	Polish Finished Wood Beading	16 Swg Folded M.S. Sheet	Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
08	SD-01	3'-0"	8'-0"	01	-	-	-	-	-	-	01	02	Single Leaf	16 SWG M.S folded sheet door.	Enamel paint over Anti Rust	16 Swg Folded M.S. Sheet	I Enamel paint over Anti Rust	Handle lock, 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equivalent)	
09	FD-01	3'-0"	8'-0"	01	01	01	01	01	01	01	-	07	Single Leaf	1.5 hr: Fire rated door as per NFPA, With Glass window.	As	per approved Sa	mple.		
10	FD-02	6'-0"	8'-0"	-	-	01	01	01	01	01	-	05	Double Leaf	1.5 hr: Fire rated door as per NFPA, With Glass window.	As	per approved Sa	mple.		
11	FD-03	4'-0"	8'-0"	-	-	-	01	-	-	-	-	10	Single Leaf	1.5 hr: Fire rated door as per NFPA, With Glass window.	As	per approved Sa	mple.		
12	GP-01	11'-9"	9'-6"	10	-	-	-	-	-	-	-	10	Single Leaf	Black Anodized Aluminum Deluxe sections Glass partition with Oak ply Solid Core wooden door leaf.	Polish Finished Wooden Leaf.	Black Anodized Deluxe sections		Deadlock 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equiliant)	
13	GP-02	11'-2"	9'-6"	01	-	-	-	-	-	-	-	01	Single Leaf	Black Anodized Aluminum Deluxe sections Glass partition with Oak ply Solid Core wooden door leaf.	Polish Finished Wooden Leaf.	Black Anodized Deluxe sections		Deadlock 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equiliant)	
14	GP-03	9'-9"	9'-6"	01	-	-	-	-	-	-	-	01	Single Leaf	Black Anodized Aluminum Deluxe sections Glass partition with Oak ply Solid Core wooden door leaf.	Polish Finished Wooden Leaf.	Black Anodized Deluxe sections		Deadlock 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equiliant)	
15	GP-04	10'-7"	9'-6"	02	-	-	-	-	-	-	-	02	Single Leaf	Black Anodized Aluminum Deluxe sections Glass partition with Oak ply Solid Core wooden door leaf.	Polish Finished Wooden Leaf.	Black Anodized Deluxe sections		Deadlock 1/2" Th. S.S Hinge (Ball Bearing) & Door Closer (Doorma or Equiliant)	
16																			
Sc	ched	lule	Of V	Vind	lows	s & \	/ent	elat	or										
S.#	W / V Type	Siz Width	es Height	Ground Floor	First Floor	Second Floor	Third Floor	Fourth Floor	Fifth Floor	Sixth Floor	Roof Floor	Total No.	Туре	Material			Glass	Notes	
01	GW-01	14'-9"	21'-3"	01	-	-	-	-	-	-	-	01	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
02	W-01	4'-0"	6'-0"	12	-	13	13	13	13	-	-	64	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
03	W-02	4'-0"	6'-0"	-	15	-	-	-	-	13	-	28	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
04	W-03	2'-0"	6'-0"	02	-	10	10	09	10	-	-	41	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	3	
05	W-04	2'-0"	6'-0"	-	01	-	-	-	-	09	-	10	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	3	
06	W-05	6'-0"	5'-0"	-	02	-	02	-	-	-	-	04	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	3	
07	W-06	2'-0"	5'-6"	02	-	02	02	01	02	-	-	09	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
08	W-07	2'-0"	5'-6"	-	01	-	-	-	-	01	-	02	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
09	V-01	4'-0"	6'-0"	02	-	-	-	-	-	-	-	02	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	3	
10	V-02	4'-0"	6'-0"	-	-	01	01	01	01	-	-	04	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	S	
11	V-03	4'-0"	6'-0"	-	-	-	-	-	-	01	-	01	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	5	
12	V-04	4'-0"	6'-0"	-	-	-	-	-	-	01	-	01	As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	3	
13	V-05	4'-0"	6'-0"	01	-	01	01	01	01	-	-		As Per Design	Champaign Anodized Deluxe Aluminum	n Beading section	ons. 5mm" T	h. Clear Glas	S	
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SCHEDULE OF FINISHES

Gr	ound Floor						
S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS
01	Ent. Steps / Platform	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
02	Lift Lobby.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High
03	Dean Office.	Carpet Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High
04	Waiting area / Passages.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High
05	Rooms / PA (Offices)	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High
07	Office/ Store	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High
09	Toilets / Bath	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High
08	Stair Cases	Marble Slab Treads /Risers	Marble tiles Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
09	Pantry	Full body Porcelain tiles	Half body Porcelain tiles	Dado 5' High	Matt Enamel Paint	False Ceiling	Dado Up To 5' High
10	I.T Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
11	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High
12	Security Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High

	ina, i orai, i ire		Third, Forth, Fifth, Sixth Floors											
S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS							
01	Lift Lobby / Passages.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High							
02	Class Rooms	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High							
03	Server Room.	Raised Floor.	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High							
04	IT Manager, NOC,UPS & Maintenance.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High							
05	Stair Cases	Marble Slab Treads /Risers	Marble tiles Skirting	-	Matt Enamel Paint.	Oil Bond Distemper.	Skirting Up To 4" High							
06	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High							
07	I.T Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High							
08	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High							
09	Computer Labs	Marble Tile	Marble Tile	-	Matt Enamel	Oil Bond	Skirting Up To 4" High							

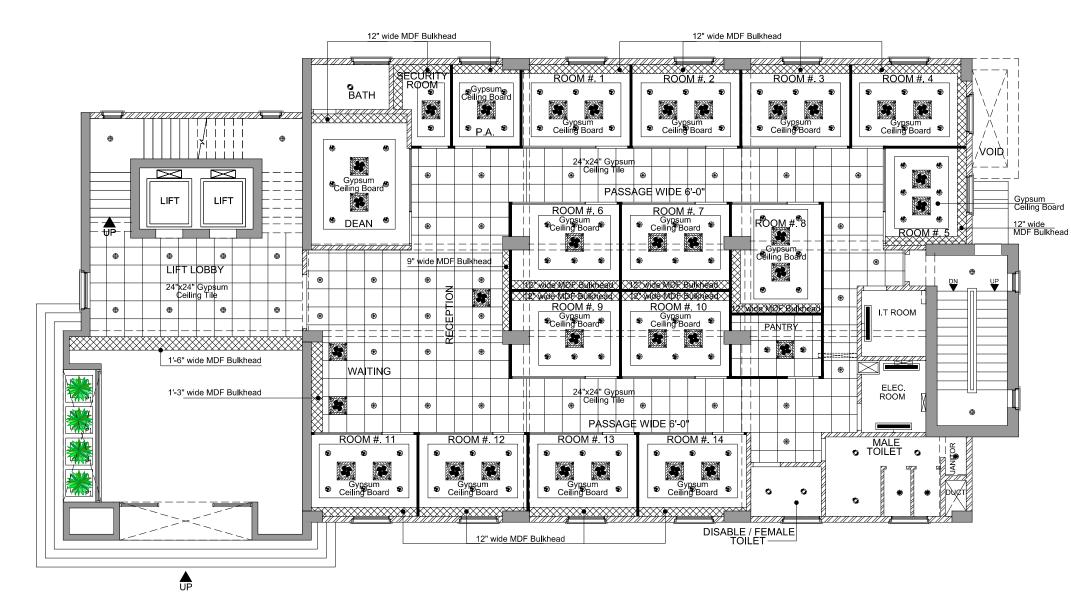
Fir	First Floor									
S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS			
01	Lift Lobby.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	False Ceiling	Skirting Up To 4" High			
02	Library / Librarian / Staff / Discussion Room # 1 & 2	Carpet Tiles on P.C.C floor	Half body Porcelain tiles	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
03	Store	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
04	Stair Cases	Marble Slab Treads /Risers	Marble tiles Skirting		Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
05	I.T Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
06	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
07										

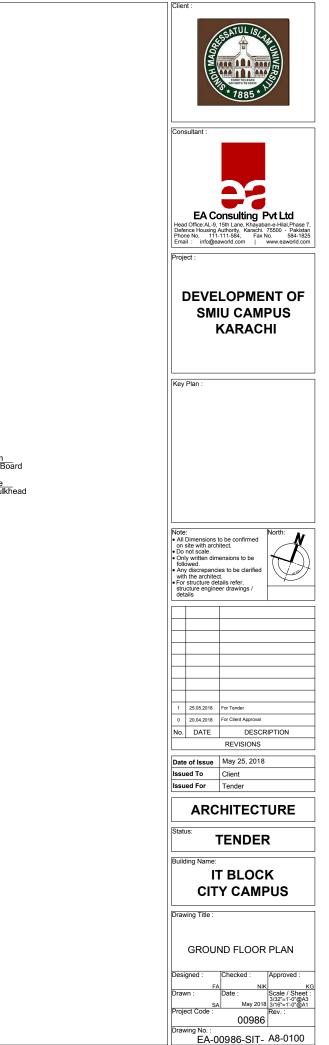
Se	Second Floor									
S.#	TITLE	FLOOR	SKIRTING	DADO	WALL	CEILING	REMARKS			
01	Lift Lobby / Passages.	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High			
02	Computer Labs (1-4)	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Distemper	Skirting Up To 4" High			
03	Toilets	Matt Finish Porcelain Tile Floor Finish	Half body Porcelain tiles	Dado 7' High	Matt Enamel Paint	False Ceiling	Dado Up To 7' High			
04	Stair Cases	Marble Slab Treads /Risers	Marble tiles Skirting		Matt Enamel Paint.	Oil Bond Distemper.	Skirting Up To 4" High			
05	I.T Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
06	Electrical Room	Marble Tile Floor	Marble Tile Skirting	-	Matt Enamel Paint	Oil Bond Destemper	Skirting Up To 4" High			
07										

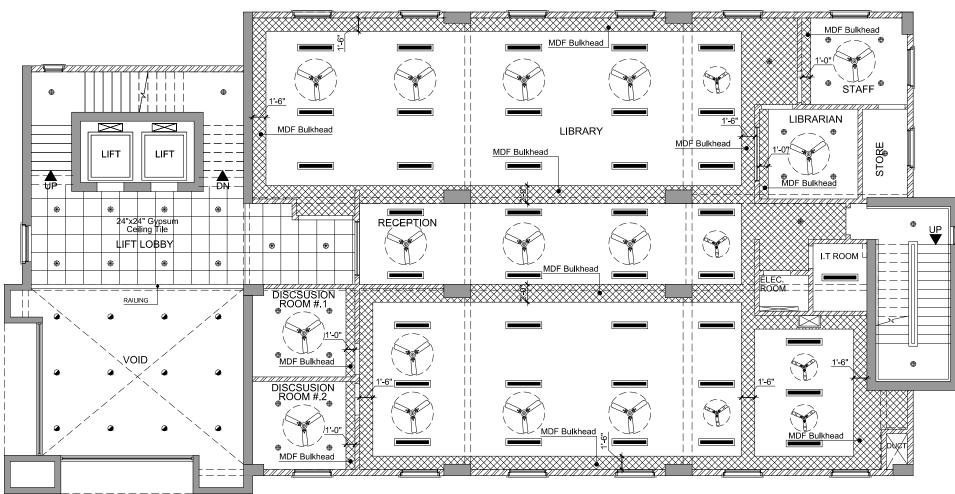
.IS	T OF MATERIAL
01	All Internal Walls 1/2" Thick Cement 1:3 C.C Plaster with
·	paint finish as specified Sand Plaster Finish Plain Plaster. All Concrete Ceiling Soffits, Beams, Column etc. to have 1/2" C.C
2	Plaster Finish for Paint as specified
3	12"x12"x1/2" Thick Pre-Polished Marble (Botocina or Similar) on Floors where shown
4	12"x4"x1/2" Thick Marble (Botocina) Chemical Pre-Polished Tiles Skirting as per Drawing
5	12"x12"x3/8" Thick Half Body Porcelain Tiles Dado.
6	Full Body Porcelain Tiles Flooring of approved Colour/ Texture
7	Laid to Patterns as shown
8	ICI or Berger Matt Enamel Paint for approved Colour on walls
9	OIL BOND DISTEMPER ON CEILING.
0	24" X24" X1/2" Mineral Fiber board tiles in metal suspension system in Washrooms
1	24" X24" X1/2" Plastic laminated gypsum board tiles in metal suspension system with 1/2" th. gypsum board border
1	Textured Paint on the Exterior Walls

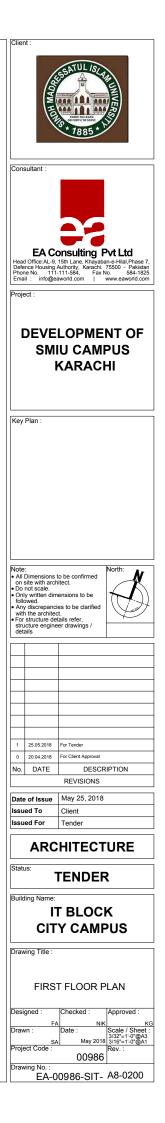
Client :	
TOB2 * L	
Consultant :	
EA Consulting Pyt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal Phase 7 Defence Housing Authority, Karachi, 75500 - Pakistar Phone No. 111-111-584, Fax No. 584-1822 Email : info@eaworld.com j www.eaworld.com	
Project :	
DEVELOPMENT OF SMIU CAMPUS KARACHI	
Key Plan :	
Note: • All Dimensions to be confirmed	
 on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 	,
No. DATE DESCRIPTION REVISIONS	
Date of Issue	
Issued To Issued For	
ARCHITECTURE	
Status: CONCEPT	
Building Name:	
I.T BLOCK CITY CAMPUS	
Drawing Title : SCHEDULE OF FINISHES	
Designed : Checked : Approved :	
FA S Drawn : Date : Scale / Sheet	
FA S Drawn : Date : Scale / Sheet MH 3/8"=1'-0"@/ Project Code : Rev. :	
FA S Drawn : Date : Scale / Sheet MH 3/8"=1'-0"@/	1

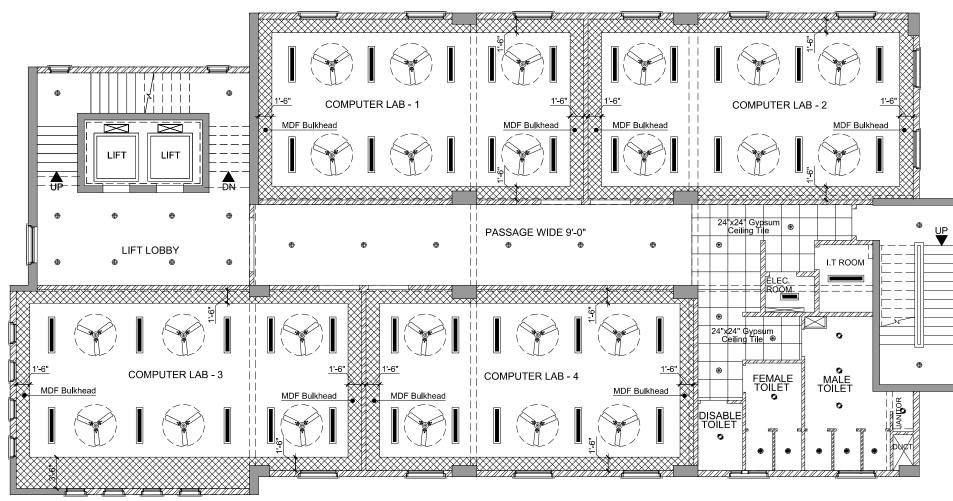
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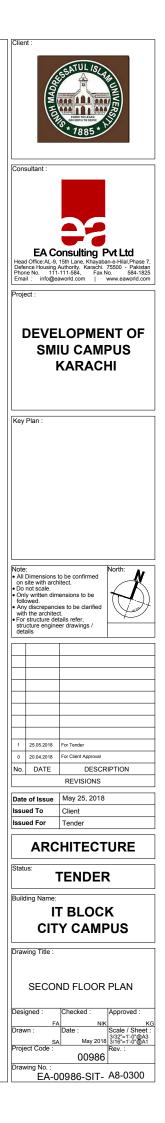




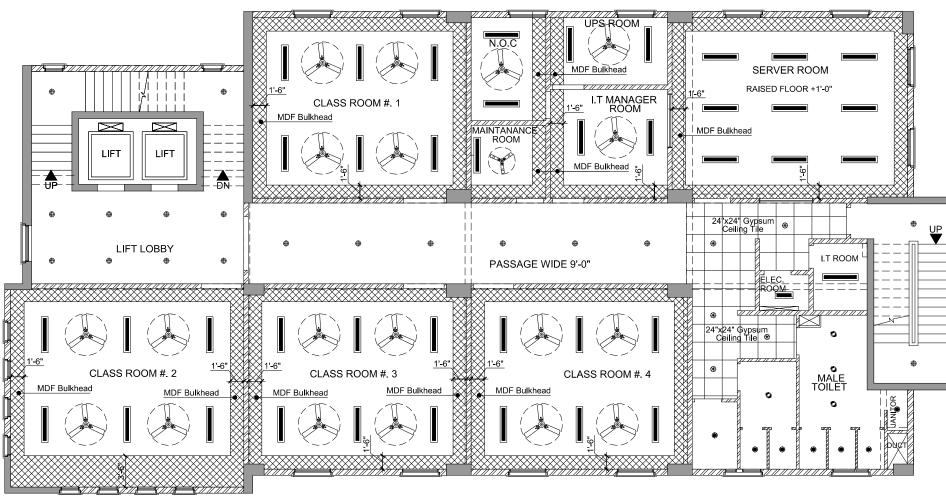


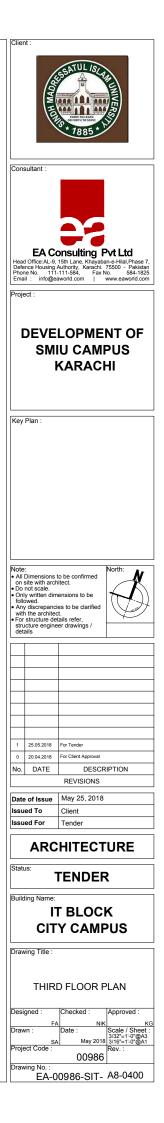




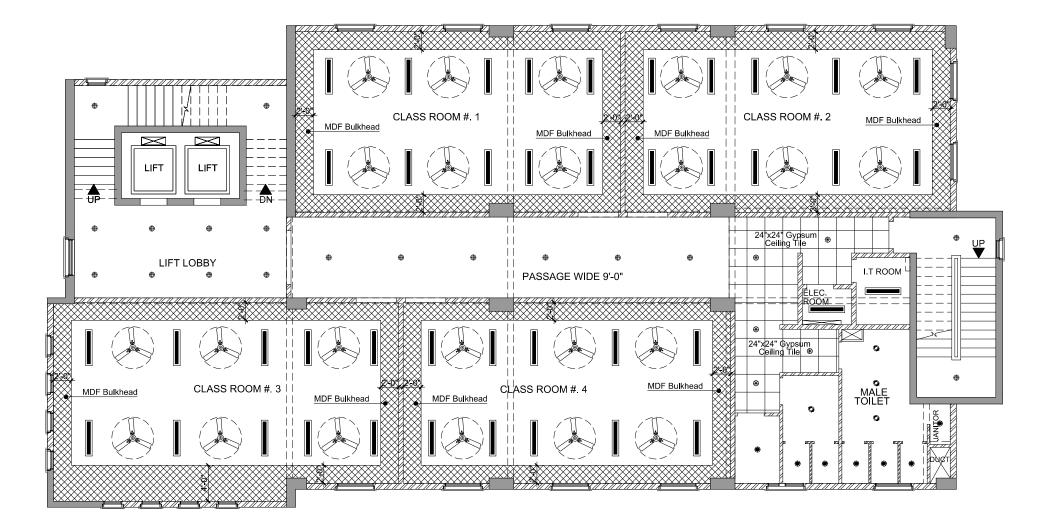


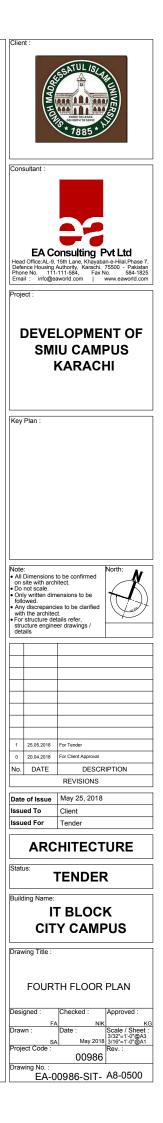
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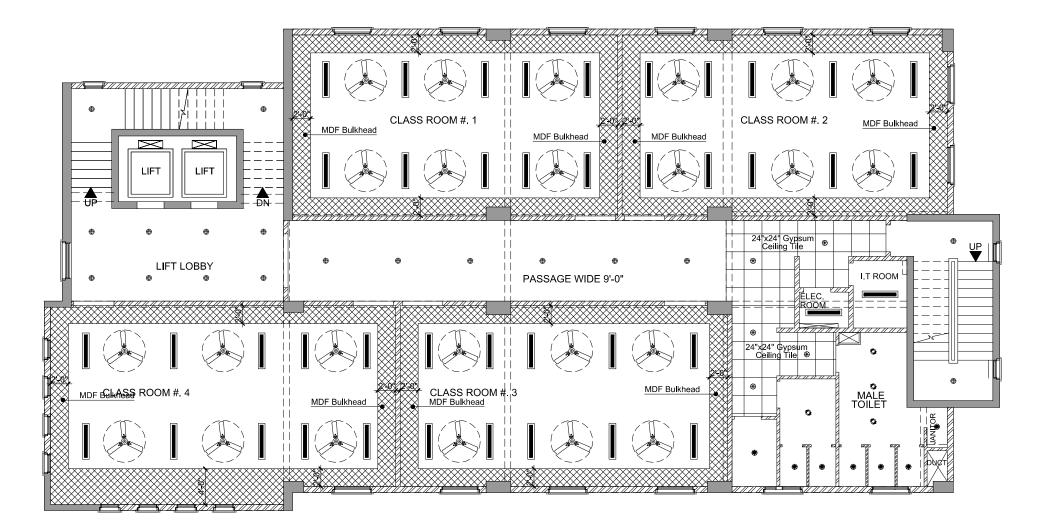


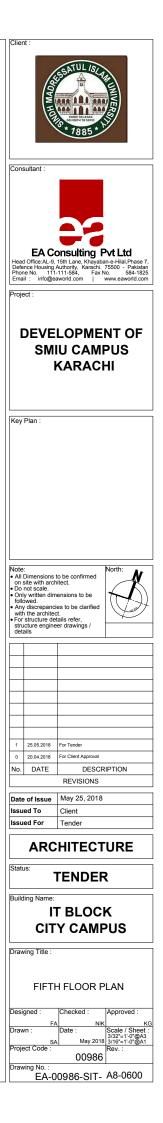


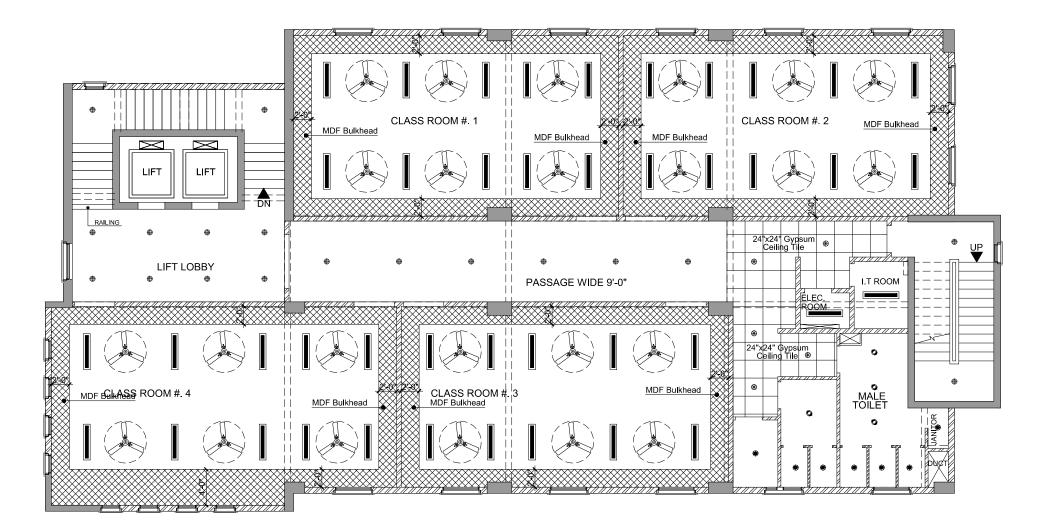


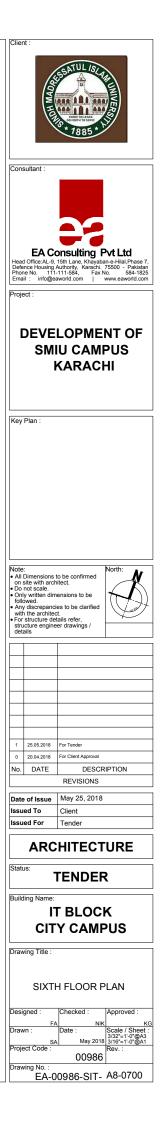












DEVELOPMENT OF SMIU CAMPUS KARACHI



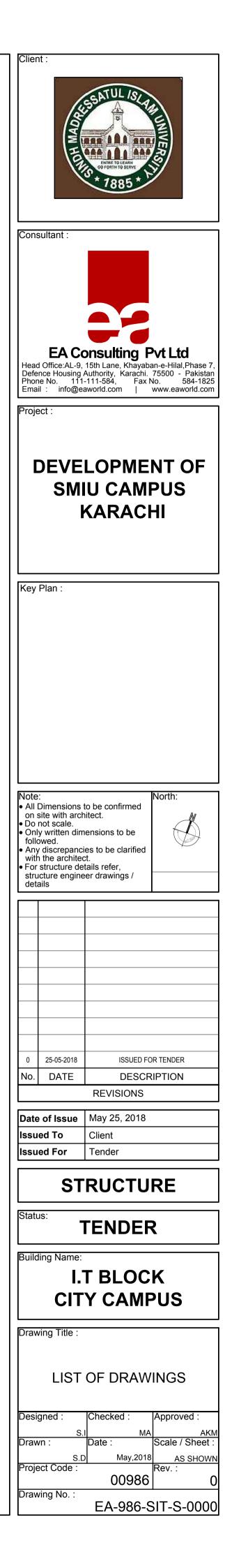
TENDER DRAWINGS Structure



IT BLOCK City Campus



S.NO. DRG. NO. DESCRIPTION STANDARD DRAWINGS UST OF DRAWINGS 01 EA-986-STI-S-0000 UST OF DRAWINGS 02 EA-986-STI-S-0001 STANDARD DETAILS (SHEET 1 OF 5) 03 EA-986-CRI-S-0012 STANDARD DETAILS (SHEET 1 OF 5) 04 EA-986-CRI-S-0013 STANDARD DETAILS (SHEET 3 OF 5) 05 EA-986-CRI-S-0014 STANDARD DETAILS (SHEET 4 OF 5) 07 EA-986-STI-S-0015 STANDARD DETAILS (SHEET 4 OF 5) 08 EA-986-STI-S-1001 COLUMN AND AND DETAILS (SHEET 1 OF 5) 09 EA-986-STI-S-1001 COLUMN AND MALL LAYOUT PLAN 09 EA-986-STI-S-1003 FOUNDATION PLAN AND DETAILS 10 EA-986-STI-S-1004 FOUNDATION PLAN AND DETAILS 11 EA-986-STI-S-1004 FOUNDATION PLAN AND DETAILS 12 EA-986-STI-S-2004 FOUNDATION PLAN AND SECTIONS 14 EA-986-STI-S-2004 IDT IN FRAMING PLAN & SECTIONS 15 EA-986-STI-S-2003 IDT COR FRAMING PLAN & SECTIONS 16 EA-986-STI-S-2004 JON FLOOR FRAMING PLAN & SECTIONS 17 FA		LIST OF DRAWINGS							
01 EA-986-SIT-S-0000 LIST OF DRAWINGS 02 EA-986-SIT-S-0001 GENERAL INDES 03 EA-986-CEN-S-0012 STANDARD DETALS (SHEET 2 OF 5) 05 EA-986-CEN-S-0013 STANDARD DETALS (SHEET 2 OF 5) 05 EA-986-CEN-S-0014 STANDARD DETALS (SHEET 2 OF 5) 05 EA-986-CEN-S-0015 STANDARD DETALS (SHEET 1 OF 5) 06 EA-986-SIT-S-1001 COLUNN AND DETALS (SHEET 1 OF 5) 07 EA-986-SIT-S-1001 COLUNN AND WALL LAYOUT PLAN 08 EA-986-SIT-S-1003 FOUNDATION REINFORCEMENT PLAN AND DETALS 09 EA-986-SIT-S-1003 FOUNDATION PLAN AND SECTONS 10 EA-986-SIT-S-1004 FOUNDATION PLAN AND SECTONS 11 EA-986-SIT-S-1005 COLUNN SCHEDULE & DETALS (SHEET 1 OF 2) 12 EA-986-SIT-S-2002 IST FLOOR FRAMING PLAN & SECTONS 15 EA-986-SIT-S-2003 IST FLOOR FRAMING PLAN & SECTONS 16 EA-986-SIT-S-2004 SIT FLOOR FRAMING PLAN & SECTONS 17 EA-986-SIT-S-2004 SIT FLOOR FRAMING PLAN & SECTONS 18 EA-986-SIT-S-2004 SIT FLOOR FRAMING PLAN & SE	S.NO.	DRG. NO.	DESCRIPTION						
C2 EA-986-SIT-S-0001 GENERAL NOTES C3 EA-986-CEN-S-0011 STANDARD DETAILS (SHEET 1 OF 5) C4 FA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C5 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-SIT-S-1001 COLUMN PLAN AND DETAIL C8 EA-986-SIT-S-1002 FOUNDATION PLAN AND DETAIL C8 EA-986-SIT-S-1004 FOUNDATION PLAN AND DETAILS C1 EA-986-SIT-S-1004 FOUNDATION PLAN AND SECTIONS C1 EA-986-SIT-S-1005 COLUWN SCHEDULE & DETAILS (SHEET 1 OF 2) C1 EA-986-SIT-S-1002 COLUWN SCHEDULE & DETAILS (SHEET 1 OF 2) C1 EA-986-SIT-S-2003 SINFLOOR FRANING PLAN & SECTIONS C2 EA-986-SIT-S-2003 SINFLOOR FRANING	STA	NDARD DRAWINGS							
C2 EA-986-SIT-S-0001 GENERAL NOTES C3 EA-986-CEN-S-0011 STANDARD DETAILS (SHEET 1 OF 5) C4 FA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C5 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) C7 EA-986-SIT-S-1001 COLUMN PLAN AND DETAIL C8 EA-986-SIT-S-1002 FOUNDATION PLAN AND DETAIL C8 EA-986-SIT-S-1004 FOUNDATION PLAN AND DETAILS C1 EA-986-SIT-S-1004 FOUNDATION PLAN AND SECTIONS C1 EA-986-SIT-S-1005 COLUWN SCHEDULE & DETAILS (SHEET 1 OF 2) C1 EA-986-SIT-S-1002 COLUWN SCHEDULE & DETAILS (SHEET 1 OF 2) C1 EA-986-SIT-S-2003 SINFLOOR FRANING PLAN & SECTIONS C2 EA-986-SIT-S-2003 SINFLOOR FRANING	01	EA-986-SIT-S-0000	LIST OF DRAWINGS						
03 EA-986-CEN-S-001 STANDARD DETAILS (SHEET 1 OF 5) 04 EA-986-CEN-S-0013 STANDARD DETAILS (SHEET 2 OF 5) 05 EA-986-CEN-S-0014 STANDARD DETAILS (SHEET 3 OF 5) 07 EA-986-CEN-S-0014 STANDARD DETAILS (SHEET 3 OF 5) 07 EA-986-CEN-S-0014 STANDARD DETAILS (SHEET 3 OF 5) 07 EA-986-ST-S-1001 COLUMN ADD WALL LAYOUT PLAN 09 EA-986-ST-S-1002 FOUNDATION PLAN AND DETAIL 08 EA-986-ST-S-1003 FOUNDATION PREINFORCEMENT PLAN AND DETALS 10 EA-986-ST-S-1004 FOUNDATION PREINFORCEMENT PLAN AND DETALS 11 EA-986-ST-S-1005 COLUMN AND NO FREMINGREENT PLAN AND DETALS 12 EA-986-ST-S-1006 COLUMN SCHEDULE & DETALS (SHEET 1 OF 2) 13 EA-986-ST-S-2001 PLINTH FRAMING PLAN & SECTONS 14 EA-986-ST-S-2002 1ST FLOOR FRAMING PLAN & SECTONS 15 EA-986-ST-S-2003 2ND FLOOR FRAMING PLAN & SECTONS 16 EA-986-ST-S-2004 ATH FLOOR FRAMING PLAN & SECTONS 17 EA-986-ST-S-2006 STH & SX FLOOR FRAMING PLAN & SECTONS 18 EA-986-ST-	02	FA-986-SIT-S-0001	GENERAL NOTES						
04 EA-986-GEN-S-0012 STANDARD DETALS (SHEET 2 OF 5) 05 EA-986-GEN-S-0013 STANDARD DETALS (SHEET 3 OF 5) 07 EA-986-GEN-S-0015 STANDARD DETALS (SHEET 4 OF 5) 07 EA-986-ST-S-1001 COLUMN AND MALL LAYOUT FLAN 08 EA-986-ST-S-1003 FOUNDATION RUN COLUMN PLAN AND DETALL 08 EA-986-ST-S-1003 FOUNDATION REINFORCEMENT PLAN AND DETALLS 09 EA-986-ST-S-1004 FOUNDATION REINFORCEMENT PLAN AND DETALS 10 EA-986-ST-S-1005 FOUNDATION REINFORCEMENT PLAN AND DETALS 11 EA-986-ST-S-1004 FOUNDATION REINFORCEMENT PLAN AND DETALS 12 EA-986-ST-S-1005 COLUMN SCHEDULE & DETALS (SHEET 1 OF 2) 13 EA-986-ST-S-2002 PLINTH FRAMING PLAN & SECTIONS 14 EA-986-ST-S-2002 IST FLOOR FRAMING PLAN & SECTIONS 15 EA-986-ST-S-2003 ZND FLOOR FRAMING PLAN & SECTIONS 16 EA-986-ST-S-2004 UPER ROOF FRAMING PLAN & SECTIONS 18 EA-986-ST-S-2005 STH & SIN FLOOR FRAMING PLAN & SECTIONS 19 EA-986-ST-S-2004 UPER ROOF REINFORCEMENT PLAN 20									
05 EA-986-GEN-S-0013 STANDARD DETAILS (SHEET 3 OF 5) 06 EA-986-CEN-S-0014 STANDARD DETAILS (SHEET 3 OF 5) 07 EA-986-CEN-S-0015 STANDARD DETAILS (SHEET 3 OF 5) 08 EA-986-CEN-S-0101 COLUMN PLAN AND DETAIL 09 EA-986-STT-S-1002 FOUNDATION PLAN AND SECTIONS 10 EA-986-STT-S-1003 FOUNDATION PLAN AND SECTIONS 11 EA-986-STT-S-1004 FOUNDATION PENFORCEMENT PLAN AND DETAILS 12 EA-986-STT-S-1005 COLUMN SCHEDULE & DETAILS (SHEET 1 OF 2) 13 EA-986-STT-S-2000 PUINTH FRAING PLAN & SECTIONS 14 EA-986-STT-S-2001 PUINTH FRAING PLAN & SECTIONS 15 EA-986-STT-S-2003 2ND FLOOR FRAING PLAN & SECTIONS 16 EA-986-STT-S-2004 3RD FLOOR FRAING PLAN & SECTIONS 17 EA-986-STT-S-2005 3RD FLOOR FRAING PLAN & SECTIONS 18 EA-986-STT-S-2006 3RD FLOOR FRAING PLAN & SECTIONS 19 EA-986-STT-S-2006 3RD FLOOR FRAING PLAN & SECTIONS 20 EA-986-STT-S-2001 ROF FRAING PLAN & SECTIONS 21 EA-986-STT-S-20001									
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40 EA-986-SIT-S-7002 CONCRETE DETAIL STAIR CASE ST-02									
41 EA-986-SIT-S-7003 REINFORCEMENT DETAIL STAIR CASE ST-02									
	41	EA-986-SIT-S-7003	REINFORCEMENT DETAIL STAIR CASE ST-02						



PROJECT DESCRIPTION

1	_	THE PROPOSED PROJECT SMIU IS LOCATED IN KARACHI.	
		IT MAINLY COMPRISES OF CLASS ROOM , ART ROOM , LIBRARY, MOSQUE	
		FACULTY BLOCK , HOSTEL , FACULTY & STAFF RESIDENCE AND COMMON FACILITI	ES

GENERAL

G1	STRUCTURAL	DRAWINGS	SHALL	ΒE	REA	D IN	CON	IJUN(CTION	WITH	ALL	OTHER	DIS	CIPLIN	NE I	DRAWING	S,
	DOCUMENTS,	SPECIFICAT	TIONS E	TC.	AS	PART	OF	THE	CONT	RACT	DOC	JMENT	OR.	MAY	ΒE	ISSUED	DURIN
	THE COURSE	OF THE C	ONTRAC	CT.													

- G2 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING DRAWINGS.
- G3 FOR MAIN SETTING OUT LINES AND LEVELS REFER TO ARCHITECTURAL DRAWINGS.
- G4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE SAFETY OF CONSTRUCTION AT ALL TIMES AND SHALL ENSURE THAT NO PART OF INTERMEDIATE COMPLETED CONSTRUCTION IS HAZARDOUS (FOR EXAMPLE; SIDES OF EXCAVATION. STARTER BARS ETC.)
- G5 THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING AGAINST LATERAL FORCES AND ALL CONSTRUCTION LOADS THROUGHOUT THE CONSTRUCTION PROCESS.
- G6 ALL ELEMENTS OF THE STRUCTURE DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED TO DESIGN CONSULTANT FOR REVIEW.
- G7 THE DESIGN CONSULTANT'S REVIEW PROCESS FOR ALL SUBMITTALS, DRAWINGS, METHOD STATEMENTS AND DOCUMENTS IS ONLY COMPLETE ONCE A STATUS OF 'NO OBJECTION' IS REACHED. THE SUBMITTAL SHALL BE REVIEWED BY THE DESIGN CONSULTANT FOR COMPLIANCE WITH THE DESIGN INTENT THIS DOES NOT RELIEVE THE CONTRACTOR FROM HIS CONTRACTUAL RESPONSIBILITIES.
- G8 FOR ALL BUILDERS WORK INFORMATION (OPENINGS IN STRUCTURAL ELEMENTS):- LIGHTING POINTS, GULLIES, CAST-IN PIPES, SLEEVES, ELECTRICAL TRENCHES, MANHOLES ETC, REFER TO MEP DRAWINGS FOR LOCATION. THE CONTRACTOR SHALL PREPARE COORDINATED SERVICES DRAWINGS IDENTIFYING STRUCTURAL, MEP AND ARCHITECTURAL ELEMENTS/DETAILS FOR CONSULTANT'S REVIEW BEFORE COMMENCEMENT OF CONSTRUCTION IN THE AREA CONCERNED.
- G9 ALL DESIGN, WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT ACI, UBC, AISC, PCB AND LOCAL AUTHORITY STANDARDS AND PROJECT DESIGN CRITERIA UNLESS NOTED OTHERWISE. FOUNDATIONS
- F1 THE CONTRACTOR SHALL READ AND FAMILIARIZE HIMSELF WITH THE GEOTECHNICAL INVESTIGATION REPORT AS WELL AS VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE SURFACE AND SUBSURFACE
- CONDITIONS. F2 LOOSE POCKETS OF SOIL WHICH ARE ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH GOOD
- SOIL COMPACTED TO ACHIEVE THE DESIRED BEARING PRESSURE.
- F3 ANY ADJACENT FOOTING IN THE VICINITY OF THE WORK SHALL BE PROPERLY PROTECTED BEFORE EXECUTION OF WORK.
- F4 FOUNDATION STRICTLY BE PLACED ON FIRM WELL COMPACTED EARTH ACCORDING TO GEOTECHNICAL REPORT ALL THE GROUND IMPROVEMENT WORK SHALL BE DONE ACCORDING TO GUIDE LINE PROVIDED IN GEOTECHNICAL REPORT.
- F5 FOOTING HAS BEEN DESIGNED USING AN ALLOWABLE BEARING CAPACITY OF 2.0 TSF AT DEPTH OF 6.75 FEET FROM E.G.L. AS CONDUCTED BY GEOTECHNICAL SERVICES THIS SHOULD BE VERIFIED PRIOR TO START OF CONSTRUCTION.
- F6 IT IS IMPORTANT TO NOTE THAT BEFORE PLACING FOUNDATION CONCRETE THE EXCAVATIONS SHOULD BE CAREFULLY INSPECTED TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS PRECAUTION IS NECESSARY TO GUARD AGAINST LOCALIZED FILLS AND INHOMOGENITIES.

DESIGN LOADS

DL1 SEISMIC LOADING IN ACCORDANCE WITH PAKISTAN BUILDING CODE-SEISMIC PROVISION 2007 (BCP-SP-2027) SEISMIC ZONE SEISMIC ZONE FACTOR = 0.2

SOIL PROFILE = TYPE SC (AS PER GEO. TECH. REPORT) IMPORTANCE FACTOR, I = 1.0 OCCUPANCY CATEGORY IV STANDARD OCCUPANCY

NUMERICAL	COEFFICIENT,	R	=	AS	PER	TABLE	16-N-UBC97.
Ca			=	0.	24		
Cv			=	0.	32		

LIVE LOADS

CAR PARKING= 70psfFOOD COURT (RESTAURANT)= 100psfLV//GENERATOR ROOM= 200psfCHILLERS/AHU= 200psf	2	FOOD COURT (RESTAURANT) LV//GENERATOR ROOM		100 200	psf psf
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DL3 DEAD LOADS

CEILING, MEP SERVICES = 10 psf FLOOR FINISHES = 36 psf DRY PARTITION WALL = 10 psf

DESIGN CODE OF PRACTICE

DC1 1997 UNIFORM BUILDING CODE. FOR SEISMIC DESIGN & WIND LOAD.

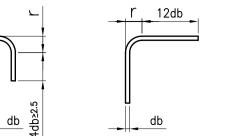
DC2 ACI-318-14 BUILDING CODE FOR STRUCTURAL CONCRETE AND COMMENTARY.

- DC3 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
- DC4 AISC 14 EDITION SPECIFICATION FOR STRUCTURAL STEEL BUILDING.
- DC6 BCP-2007 SEISMIC BUILDING CODE OF PAKISTAN.

DC7 ACI 360R-92 DESIGN OF SLAB ON GRADE

ANCHORAGE OF BARS BY HOOKS:

- * THE DIMENSIONS AND BENDING RADII FOR HOOKS TO BE USE AS STANDARDIZED IN THE ACI CODE: 1- A 180° BEND PLUS AN EXTENSION OF AT LEAST 4 BAR DIAMETERS, BUT NOT LESS THAN 2.5 IN AT THE
- FREE END OF BAR OR 2- A 90' BEND PLUS AN EXTENSION OF AT LEAST 12 BAR DIAMETERS AT THE FREE END OF THE BAR, OR
- 3- FOR STIRRUP ANE TIE ANCHORAGE ONLY: a. FOR NO. 5 BARS AND SMALLER, A 90° BEND PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS AT
- THE FREE END OF THE BAR, OR
- b. FOR NOS. 6.7 AND 8 BARS, A 90° BEND PLUS AN EXTENSION OF AT LEAST 12 BAR DIAMETERS AT THE FREE END OF THE BAR, OR c. FOR NO. 8 BARS AND SMALLER, A 135' BEND PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS AT
- THE FREE END OF THE BAR.
- THE MINIMUM DIAMETER OF BEND, MEASURED ON THE INSIDE OF THE BAR, FOR STANDARD HOOKS OTHER THAN FOR STIRRUPS OR TIES IN SIZES NOS. 3 THROUGH 5, SHOULD NOT BE LESS THAN 6 BAR DIAMETER. FOR STIRRUP AND TIE HOOKS, FOR BAR SIZES NO.5 AND SMALLER, THE INSIDE DIAMETER OF BEND SHOULD NOT BE LESS THEN 4 BAR DIAMETERS. ACCORDING TO ACI CODE:



(a). MAIN REINFORCEMENT

 $r = 4db FOR db \leq N0.8$

r = 5db FOR db > N0.8

- 6 GENERAL CONSTRUCTION CONDITION
- GC1 ALL EXCAVATION SHALL BE BASED ON ENGINEERING SHOP DRAWINGS PREPARED BY THE CONTRACTOR, INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES.
- GC2 THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS AND SUMPS AND SUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF SUB GRADE WILL BE A CAUSE FOR REVOCATION OF APPROVAL AND COMPLETE RE-PREPARATION OF THE SUBGRADE.
- PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO ENVIRONMENTAL CONDITIONS. GC4 THE EXCAVATION RETENTION SYSTEM SHALL BE DONE BY THE CONTRACTOR, UNLESS NOTED
- THE GEOTECHNICAL INVESTIGATION REPORT. GC5 THE CONTRACTOR SHALL CONTINUOUSLY SURVEY VERTICAL AND HORIZONTAL MOVEMENTS OF THE TOP OF
- THE SOIL BENCH MARKS ADJACENT TO AND AWAY FROM THE SITE PERIMETER FOR VERTICAL AND HORIZONTAL MOVEMENTS AND OBSERVATION WELLS FOR MONITORING WATER LEVELS BELOW GROUND SURFACE. GC6 THE SITE SHALL BE DE-WATERED, AS NECESSARY, BEFORE (OR AS) THE EXCAVATION PROCEEDS.
- THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION EQUIPMENT FOR THE DE-WATERING SYSTEM INCLUDING, BUT NOT LIMITED TO, TRENCHES, SUMPS, DE-WATERING WELLS, WELL POINTS, OBSERVATION WELLS, PUMPING SYSTEM, DISPOSAL LOCATION, SETTLING BASINS, MAINTENANCE AND EMERGENCY BACK-UP EQUIPMENT, ETC.
- GC7 THE DE-WATERING SYSTEM SHALL MAINTAIN THE WATER LEVEL A MINIMUM OF 3ft BELOW THE DEEPEST FOUNDATION SUBGRADE AT ALL TIMES.
- REINFORCED CONCRETE
- C1 THE CONTRACTOR SHALL SUBMIT DETAILED RC DRAWINGS AND BAR BENDING SCHEDULES SHOWING BAR SIZES, SPACING, PLACEMENT AND SUPPORT DETAILS DOWELS AT EXPANSION JOINTS AND LAPS ETC. FOR REVIEW AND ACCEPTANCE OF THE DESIGN CONSULTANT. WORK SHALL NOT COMMENCE UNTIL THE SHOP DRAWINGS ARE REVIEWED AND ACCEPTED REVIEW OF SHOP DRAWINGS DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INPUT OF ALL TRADES ON THE SHOP DRAWINGS.
- C2 REFER TO SPECIFICATIONS FOR QUALITY AND PERFORMANCE REQUIREMENTS OF CONCRETE. (i) NORMAL CONCRETE NOT IN CONTACT WITH THE GROUND:
- ORDINARY PORTLAND CEMENT CEMENT (OPC) MIN. CEMENT CONTENT 24 lb/ft³(380kg/m³) MAX. W/C RATIO 0.40
- (ii) NORMAL CONCRETE IN CONTACT WITH THE GROUND:
- MIN. CEMENT CONTENT 24 lb/ft³ (380kg/m³)

CEMENT

- MAX. W/C RATIO 0.40
- C3 ALL CAST-IN-SITU CONCRETE SHALL HAVE A MINIMUM 28 DAYS CUBE STRENGTH UNLESS NOTED OTHERWISE OR MENTIONED IN FOLLOWING TABLE:

AS PER SOIL REPORT

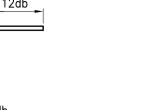
28 DAYS CYLINDRICAL STRENGTH (PSI)
3000
3000
4000
4000
3000
3000
1000
1500

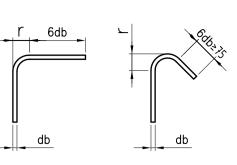
C4 WATER CEMENT RATIO SHALL NOT EXCEED 0.4.

- C5 MAXIMUM POSSIBLE WATER-SOLUBLE CHLORIDE ION (CL) CONTENT IN CONCRETE SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENT.
- C6 MAXIMUM SIZE OF COURSE AGGREGATE SHALL BE 25MM UNLESS NOTED OTHERWISE. C7 CONTRACTOR SHALL GET APPROVAL FROM DESIGN CONSULTANT OF A CONCRETE MIX DESIGN. C8 THE CONTRACTOR SHALL PERFORM AND SUBMIT FOR REVIEW INSTRUMENT SURVEYS OF FINISHED CONCRETE SLAB SURFACES.
- BOTH BEFORE AND AFTER REMOVAL OF FORM WORK AND/OR SHORING SYSTEM TO VERIFY AS-BUILT TOLERANCES.
- C9 REFER TO SPECIFICATIONS FOR REQUIREMENTS OF CONCRETE SURFACE FINISH AND CASTING TOLERANCE C10 PROVIDE UPWARD CAMBER TO SLABS AND BEAMS AS NOTED ON STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS CAMBER BOTH UNDERSIDE AND TOP OF CONCRETE TO MAINTAIN THE SLAB AND BEAM DEPTH SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.
- REINFORCEMENT INTERRUPTED EXCEPT AS INDICATED ON THE STRUCTURAL DRAWINGS.
- C12 ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING, PLASTICIZING ADMIXTURE. APPROVED HIGH RANGE WATER REDUCING ADMIXTURE MAY BE UTILIZED AT THE CONTRACTOR'S OPTION. ALL CONCRETE PERMANENTLY EXPOSED TO WEATHER SHALL ALSO CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE TO PROVIDE PERCENTAGE OF AIR REQUIRED FOR SEVERE EXPOSURE AS PER ACI 318.
- C13 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- C14 THE FOLLOWING CONCRETE CLEAR COVER TO PRIMARY REINFORCEMENT SHALL BE PROVIDED, UNLESS LARGER COVER IS NOTED ON THE STRUCTURAL DRAWINGS.

	CONCRETE CLEAR COVE	ER SCHEDULE
ELEMENT	ABOVE GROUND INTERIOR ENVIRONMENT	ABOVE G EXTER ENVIRON
COLUMNS(VERTICAL BARS)	1.5"	2"
BEAMS(LONGITUDINAL BARS)	1.5"	2"
WALLS	0.75"	1"
GRADE SLAB	0.75	2"
SUSPENDED SLAB	0.75"	1"
EQUIPMENT PAD	0.75	2"
WATER TANK	2"	2"

NOTE: - CLEAR COVER SHALL NOT BE LESS THAN ONE BAR DIA. - CONCRETE COVER FOR SURFACE CAST AGAINST SOIL SHALL BE 3" AND FOR SURFACE INCONTACT WITH SOIL SHALL BE 2".





(b). STIRRUPS AND TIES

- GC3 THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERING) FOR ALL EXCAVATED SLOPES TO
- OTHERWISE, IN ACCORDANCE WITH THE GEOTECHNICAL DESIGN PARAMETERS AND SOIL PRESSURES AS INDICATED IN

- C11 AGGREGATE FOR CONCRETE SHALL BE FROM APPROVED SOURCE AND SHALL COMPLY WITH THE SPECIFICATION REQUIREMENTS.
- C12 HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS UNLESS SHOWN OR REVIEWED BY DESIGN CONSULTANT. VERTICAL CONSTRUCTION JOINTS MAY BE MADE AT MIDSPAN OF BEAMS. OR SLABS HAVING NO POINT LOADS AT CENTER OF SPAN. UNLESS OTHERWISE NOTED OR SHOWN OR DIRECTED BY THE DESIGN CONSULTANT.
- C13 ALL CONCRETE SHALL BE COMPACTED USING ONLY MECHANICAL VIBRATION PROCESS. C14 ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE SPECIFICATIONS
- REINFORCEMENT
- R1 ALL REINFORCING BARS SHALL BE DEFORMED BARS WITH YIELD STRENGTH OF 414MPa CONFORMING TO ASTM A615. R2 EPOXY COATED REINFORCING BARS SHALL NOT BE PERMITTED.
- R3 ALL REINFORCING BARS SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE CURRENT ACI 318 AND ACI 315 UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- R4 ALL STARTER BARS SHALL BE SURVEYED AND LOCATION CONFIRMED IN AS-BUILT CONDITION PRIOR TO PLACING WALL/COLUMN REINFORCEMENT AND ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN CONSULTANT FOR INSTRUCTIONS.
- R5 PROVIDE STARTER BARS TO WALLS AND COLUMNS SIMILAR IN NUMBER AND SIZE AND SPACING TO THE VERTICAL BARS ABOVE UNLESS NOTED OTHERWISE.
- R6 WELDING AND/OR SITE CUTTING OF THE REINFORCING BARS SHALL NOT BE PERMITTED UNLESS REVIEWED AND ACCEPTED BY THE DESIGN CONSULTANT.
- R7 ALL PROPRIETARY FIXING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. R8 ALL REINFORCING SPLICES SHALL BE CLASS B TENSION SPLICES IN ACCORDANCE WITH THE CURRENT ACI 318 UNLESS NOTED OTHERWISE. REFER TO SCHEDULE BELOW FOR SPLICE LENGTHS.

	TENSION SPLICE LENGTH	
CLASS A	1.0X DEVELOPMENT LENGTH	
CLASS B	1.3X DEVELOPMENT LENGTH	
		_

- CLASS A = As PROVIDED \ge 2 As REQUIRED AND PERCENTAGE As SPLIES < 50%
- CLASS B = ALL OTHER CONDITIONS
- R9 ALL WIRE MESH REINFORCEMENT SHALL BE LAPPED AT LEAST 2 MESH PANELS AND SECURELY TIED. ALL REINFORCING DEVELOPMENT LENGTHS SHALL BE TENSION DEVELOPMENT LENGTHS IN ACCORDANCE WITH THE CURRENT ACI 318 UNLESS NOTED OTHERWISE. REFER TO SCHEDULE BELOW.

	TENSION DEVELOPMENT LENGTHS*					
	FOR f'c= 3 ksi					
	#3	#4	# 5	# 6	# 8	# 10
CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN DIA OF BAR, AND BEAM STIRRUPS OR COLUMNS TIES THROUGHOUT SPACE LENGTH NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN TWICE THE DIA OF BAR, AND CLEAR COVER NOT LESS THAN DIA OF BAR	17"	22"	28"	32"	55"	69"
OTHER CASES	25 "	33"	42"	50 "	83"	123"
*ABOVE DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY 1.3 WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THEN 12in OF FRESH CONCRETE IS CAST BELOW.						

	TENSION DEVELOPMENT LENGTHS*					
	FOR f'c= 4 ksi					
	#3	#4	# 5	#6	#8	# 10
CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN DIA OF BAR, AND BEAM STIRRUPS OR COLUMNS TIES THROUGHOUT SPACE LENGTH NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN TWICE THE DIA OF BAR, AND CLEAR COVER NOT LESS THAN DIA OF BAR	15"	19"	24"	29"	48"	60"
OTHER CASES	22"	29"	36"	43"	72"	89"
*ABOVE DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY 1.3 WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THEN 12in OF FRESH CONCRETE IS CAST BELOW.						

	DEVELOPMENT LENGTHS FOR f'c= 3 ksi				
	TENSION HOOKS	COMPRESSION			
# 3	7"	8"			
#4	9"	9"			
# 5	11"	11"	<u>CONCRETE</u> EACE		
#6	14"	13"			
#8	18"	17"			
#10	22"	21"	<u>r</u>		

- R10 MECHANICAL SPLICING OF LARGE DIAMETER BARS MAY BE ACCEPTABLE SUBJECT TO REVIEW BY THE DESIGN CONSULTANT C11 BEAMS, SLABS, COLUMNS, WALLS AND FOUNDATION ELEMENTS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE R11 FOR HOUSE KEEPING PADS AND FLOATING SLABS PROVIDE REINFORCEMENT IN ACCORDANCE WITH THE CURRENT ACI 318
 - CONSTRUCTION INSPECTION PROGRAM FOOTNOTES

UNLESS NOTED OTHERWISE OR SHOWN ON THE STRUCTURAL DRAWINGS.

- 1. PROVIDE CONSTRUCTION INSPECTION, CONSTRUCTION TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO
- CHAPTER 17 OF THE UBC-97 BUILDING CODE. 2. PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE CONSTRUCTION INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, GENERAL CONTRACTOR AND CONSTRUCTION INSPECTORS.
- A. OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO TO THE BUILDING OFFICIAL
- B. FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, STRUCTURAL ENGINEER,
- C. SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING CONSTRUCTION INSPECTION WAS INSPECTED, AND WHETHER THE WORKS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
- C. PROVIDE THE CONSTRUCTION INSPECTOR WITH ACCESS TO APPROVED DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
- 5. DEFINITIONS:
- B. <u>PERIODIC INSPECTION:</u> THE SPECIAL INSPECTOR IS ON SITE AS REQUIRED TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE.



- SS1 MATERIALS CONFORMING TO ASTM-A36 OR EQUIVALENT. OR EQUIVALENT. SS2 FABRICATION : SS3 WELDING 1- WELDING SHALL BE DONE BY LICENSED WELDER. THE FULL WORKING FORCE OF THE MEMBER. WELDING QUALIFICATIONS.
- SS4 ERECTION AND INSTALLATION (GUIDE ONLY) :
 - APPROVAL TO THE ENGINEER.
- SHALL FOLLOW.

SS5 MISCELLANEOUS

- CRITFRIA.
- WELDING QUALIFICATIONS. 3- ALL STRUCTURAL STEEL SHALL BE EPOXY PAINTED AS PER SPECIFICATION.
- FABRICATION AND / OR ERECTION

- BOLTS PER CONNECTION MINIMUM)
- CONSULTANT.

A1. GENERAL ABBREVIATIONS

BP – CHAM –	APPROXIMATELY BASE POINT CHAMFERED CONSTRUCTION JOINT
CONC -	CONCRETE
DEG –	DEGREES
DIA –	DIAMETER
D –	DEPTH
DWG –	DRAWING
EGL –	EXISTING GROUND LEV
EJ —	EXPANSION JOINT
EXTG –	EXISTING
FFL –	FINISHED FLOOR LEVE
FGL –	FINISHED GROUND LE
GA –	GENERAL ARRANGEMEN
GL –	GROUND LEVEL
GWT –	GROUND WATER TABLE
IJ –	ISOLATION JOINT
REINFOR	RCEMENT ABBRI
ABR – ABS – ALT – B – CRS – EF – EW – EXTF –	

A2.

EW		EACH WAY
	-	EACH WAT
EXTF	-	EXTERNAL FACE
FF	-	FAR FACE
н	-	HORIZONTAL
INTF	-	INTERNAL FACE
NF	-	NEAR FACE
PRS	-	PAIRS
REINF	-	REINFORCEMENT
STG	-	STAGGERED
Т	_	TOP
т/о	-	TEMPORARY OPENING
Ta	-	TENSION ANCHORAGE

TOC

	TENS		ANCHUP
-	TOP	OF	CONCRE
_	VFRT		

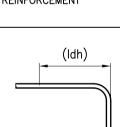
ADD. – ADDITIONAL

- GROUND MENT

- 3. DUTIES OF THE CONSTRUCTION INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:

- GENERAL CONTRACTOR AND OWNER IN A TIMELY MANNER.
- 4. DUTIES TO THE GENERAL CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
- A. NOTIFY CONSTRUCTION INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED. B. MAINTAIN ACCESS TO WORK REQUIRING INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE CONSTRUCTION INSPECTOR AND APPROVED.
- D. MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE CONSTRUCTION INSPECTOR.
- A. CONTINUOUS INSPECTION: THE SPECIAL INSPECTOR IS OBSERVING THE WORK REQUIRING SPECIAL INSPECTION AT ALL TIMES.

- (ldh)



1- ALL STRUCTURAL STEEL SHALL BE 36 ksi STRENGTH PRIME GRADE QUALITY HOT ROLLED MILD STEEL 2- ALL NUTS & BOLTS SHALL CONFORM TO ASTM-A325 OR A490 ALL NUTS ARE ASTM-A563 & ALL WASHERS ARE ASTM-F436 OR EQUIVALENT & ANCHOR BOLTS ASTM-A307. 3- ALL WELDING SHALL BE CARRIED OUT USING E70XX TYPE ELECTRODES MADE BY PAKISTAN OXYGEN

1- CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER & SHOP FABRICATION DETAILS BASED ON THESE STRUCTURAL DRAWINGS. THE SHOP DETAILS OF EACH PART SHALL SHOW CUT LENGTH, WELD DETAILS, BOLTS HOLE LOCATIONS ETC.

2- ALL WELDS SHALL BE CONTINUOUS ALL AROUND WITH FULL RETURNS AT ENDS 3- WELD LENGTHS ALONG THE LONGITUDINAL AXIS OF THE MEMBER SHALL BE SUFFICIENT TO DEVELOP

4- ALL EXPOSED STRUCTURAL STEEL SURFACES INCLUDING NUTS & BOLTS TO BE PAINTED WITH TWO COATS OF LEAD PRIMER & TWO COATS OF RED OXIDE AFTER WIRE BRUSHING 5- ALL WELDING WORK SHALL CONFIRM TO THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL, "2003, AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, OR EQUIVALENT BRITISH STANDARD

6- MINIMUM FILLET WELD SIZES SHALL COMPLY WITH THE AISC SPECIFICATION REQUIREMENTS, BUT SHALL NOT BE LESS THAN 6MM, UNLESS NOTED OTHERWISE.

1- PROVIDE ANCHOR BOLTS, ETC IN RCC WORKS ACCURATELY WITH THE HELP OF "TEMPLATES" AT THE TIME OF CONCRETING & CHECK LOCATION BEFORE FABRICATION. 2- PROVIDE SHOP DRAWINGS SHOWING EXACT CUT LENGTHS IDENTIFICATION MARKS OF PIECES ETC FOR

ADEQUATE SCAFFOLDING, PLATFORMS, WINCHES ETC SHALL BE PROVIDE AT SITE DURING INSTALLATION OF MEMBERS TEMPORARY BRACINGS AND SCAFFOLDS SHALL BE IMMEDIATELY PROVIDE TO HOLD THE BEAMS IN POSITION, INSTALLATION OF SECONDARY BRACING AND PURLINS ETC 4- DO NOT REMOVE THE TEMPORARY SHORING TILL ALL THE BRACINGS AND PURLINS ARE INSTALLED.

1- THE STRUCTURAL STEEL SYSTEMS HAVE BEEN DESIGNED PER AISC LRFD (LOAD AND RESISTANCE FACTOR DESIGN), ALL CONTRACTOR ALTERNATIVE DESIGNS SHALL MEET THESE RESPECTIVE DESIGN

ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL, "2003. AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, OR EQUIVALENT BRITISH STANDARD

4- THE CONTRACTOR SHALL SUBMIT DETAILED, ENGINEERED, COORDINATED, AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE CONSULTANT FOR REVIEW PRIOR TO THE START OF

5- THE CONTRACTOR SHALL ENGAGE A QUALIFIED STRUCTURAL STEEL MATERIALS TESTING AGENCY, ACCEPTABLE TO THE OWNER TO CONTINUOUSLY PERFORM ALL REQUIRED SHOP FABRICATION AND FIELD ERECTION, TESTING (VISUAL, MAGNETIC PARTICLE AND ULTRASONIC) AND INSPECTIONS. TESTING REGIME SHALL BE AS APPROVED BY THE CONSULTANT.

6- ALL WELDS SHALL BE VISUALLY INSPECTED 100% PER AWS D1.1. WELD SIZE AND CONFIGURATION MEASUREMENTS SHALL BE PERFORMED FOR A MINIMUM OF 15% OF ALL WELDS ON A RANDOM BASIS X-RAY TESTING SHALL ALSO BE PERFORMED ON MINIMUM 25% OF WELDS RANDOMLY. 7- 100% OF ALL BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED, AND THEN TESTED WITH A CALIBRATED TORQUE WRENCH TO VERIFY A MINIMUM OF 25% OF BOLTS IN EACH CONNECTION (2

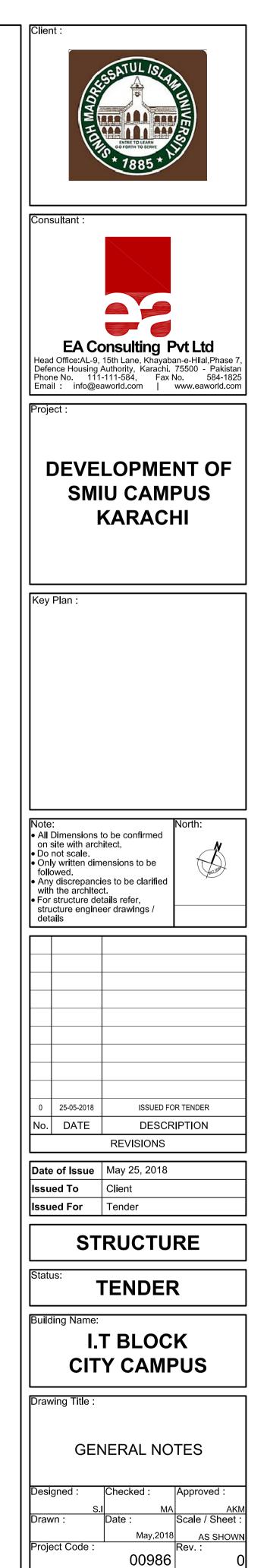
8- THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.

9- THERE SHALL BE NO FIELD WELDING OF STEEL MEMBERS ALLOWED WITHOUT PRIOR REVIEW BY THE

10- ALL STEEL STRUCTURES SHALL BE HOT DIP GALVANIZED WITH MINIMUM 70 MICRONS ZINC COATING. SS6 ALL STRUCTURAL STEEL UNDER CONSTRUCTION TO BE DESIGNED BY THE CONTRACTOR ACCORDING TO PERFORMANCE CRITERIA GENERAL NOTES AND BOQ OF THE TENDER DOCUMENT.

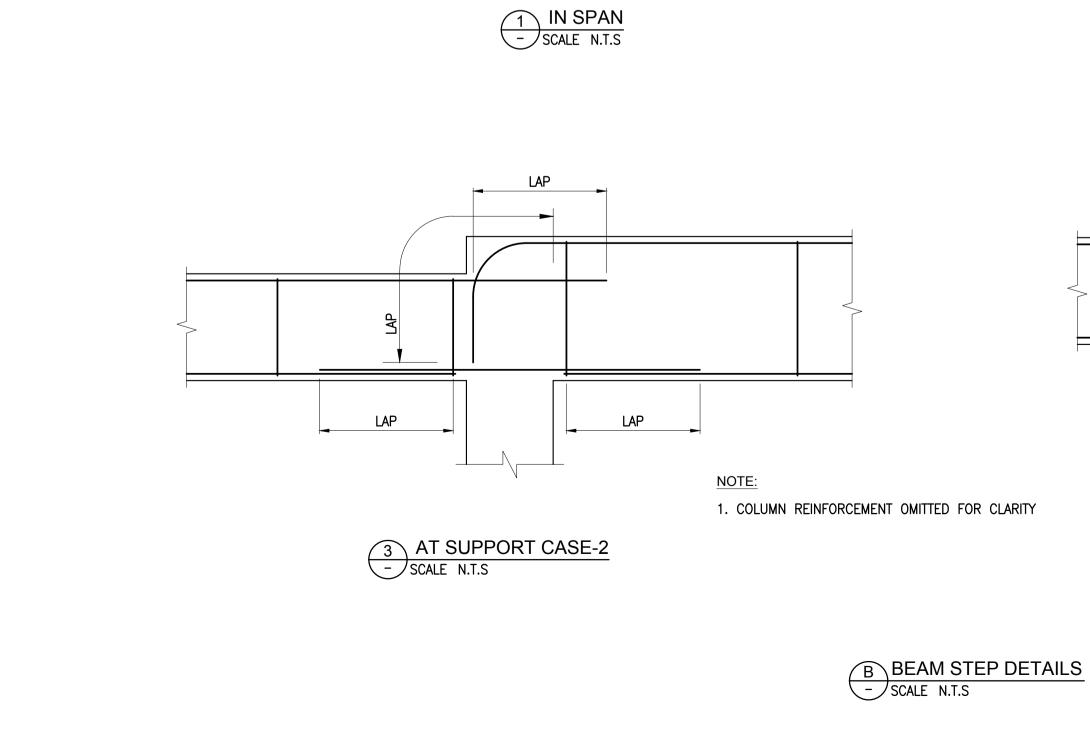
10					
	LG	_	LONG	S.S.L.–	STRUCTURAL SLAB LEVEL
	М	_	METRE	STD –	STANDARD
	MAX	_	MAXIMUM	TBC –	TO BE CONFIRMED
	MIN	_	MINIMUM		THICKNESS
	MJ	_	MOVEMENT JOINT		TRANSVERSE JOINT
	IN	_	INCHES		THICKNESS OF WALL
	No	_	NUMBER		TYPICAL UNLESS NOTED OTHERWISE
	NOM	_	NOMINAL		WIDE
	NTS	_	NOT TO SCALE		PLINTH LEVEL
ΈL	P/0	-	PERMANENT OPENING	BOF –	BOTTOM OF FOOTING
	RAD	-	RADIUS	SOG -	SLAB ON GRADE
	RC	-	REINFORCED CONCRETE		
L	REF	_	REFER		
– /EL	REQD	_	REQUIRED		
IT	REV	-	REVISION		
	SOP	—	SETTING OUT POINT		
	SQ	-	SQUARE		

EVIATIONS

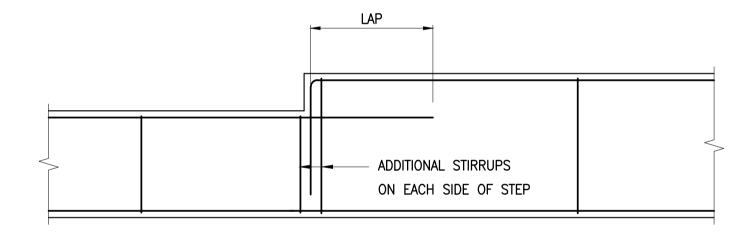


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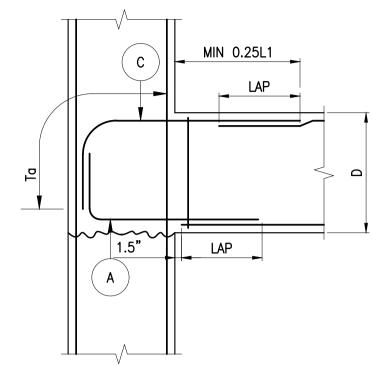
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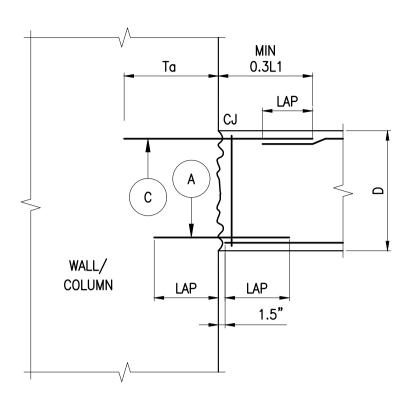


NOTE: TYPE-1 : Ta TO BE ACHEIVED WITHIN BEAM DEPTH WITH L-BAR (EDGE COLUMN)

MIN 0.25L1 믿 1.5" LAP

TYPE-2 : Ta TO BE ACHEIVED BY ANCHORING

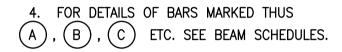
L−BARS INTO COLUMN. (To CANNOT BE ACHEIVED WITHIN BEAM DEPTH) (EDGE COLUMN)



TYPE-3 : Ta TO BE ACHEIVED BY STRAIGHT BARS (LONG COLUMNS / WALLS)

NOTES :-

- 2. TO AVOID EXCESSIVE LAPPING THE CONTRACTOR MAY PROPOSE ALTERNATIVE REINFORCEMENT ARRANGEMENTS FOR CONTINUOUS BEAMS FOR THE ENGINEER'S APPROVAL. THE ALTERNATIVE ARRANGEMENTS MUST NOT RESULT IN LESSER REINFORCEMENT BEING PROVIDED IN ANY LOCATION THAN THAT INDICATED IN THE BEAM SCHEDULE.
- 3. CONTRACTOR MAY PROPOSE ALTERNATIVE DETAILING FOR CONTINUOUS BEAMS FOR CONSIDERING REINFORCEMENT TO RUN CONTINUOUSLY ACROSS BEAM / COLUMN JUNCTION UTILIZING THE MAXIMUM LENGTH OF BAR AS MUCH AS POSSIBLE. LAPS WHERE REQUIRED SHOULD BE PROVIDED ONLY AT THE LOCATIONS SHOWN ON THE TYPICAL DETAILS.



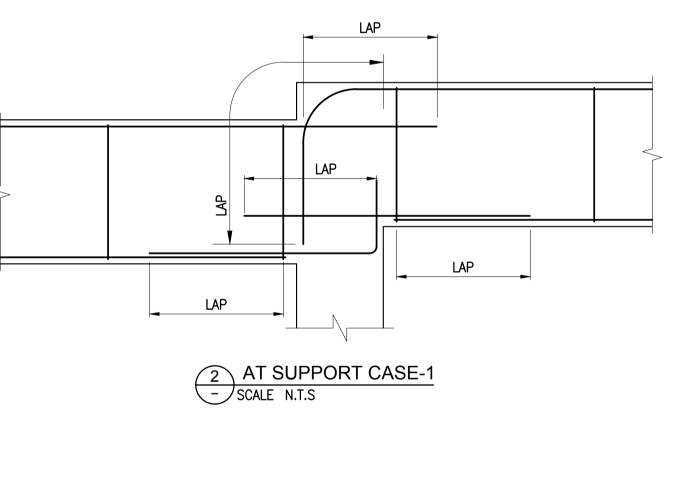
5. MAXIMUM LONGITUE SCHEDULE

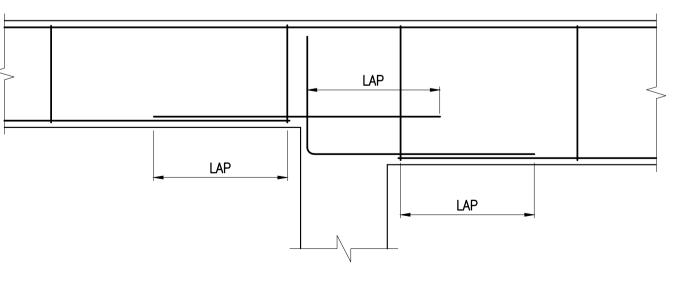
6. SIDE REINFO DEEPER T

21" OR

7. WHERE REF CONTINUOU ONLY IN S

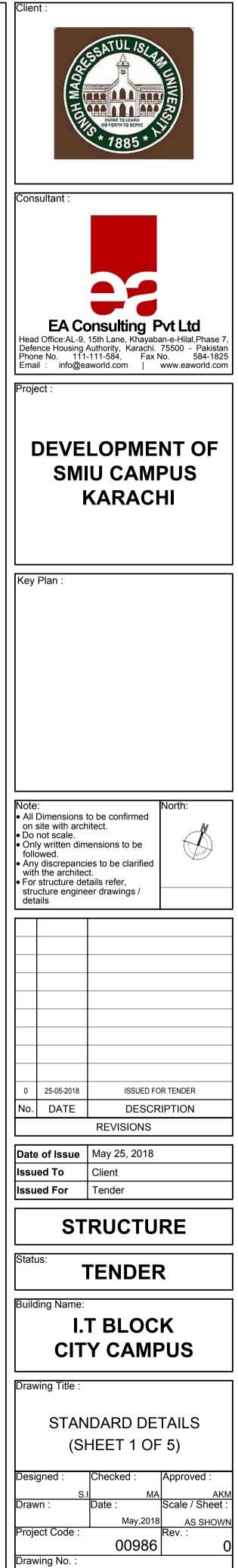






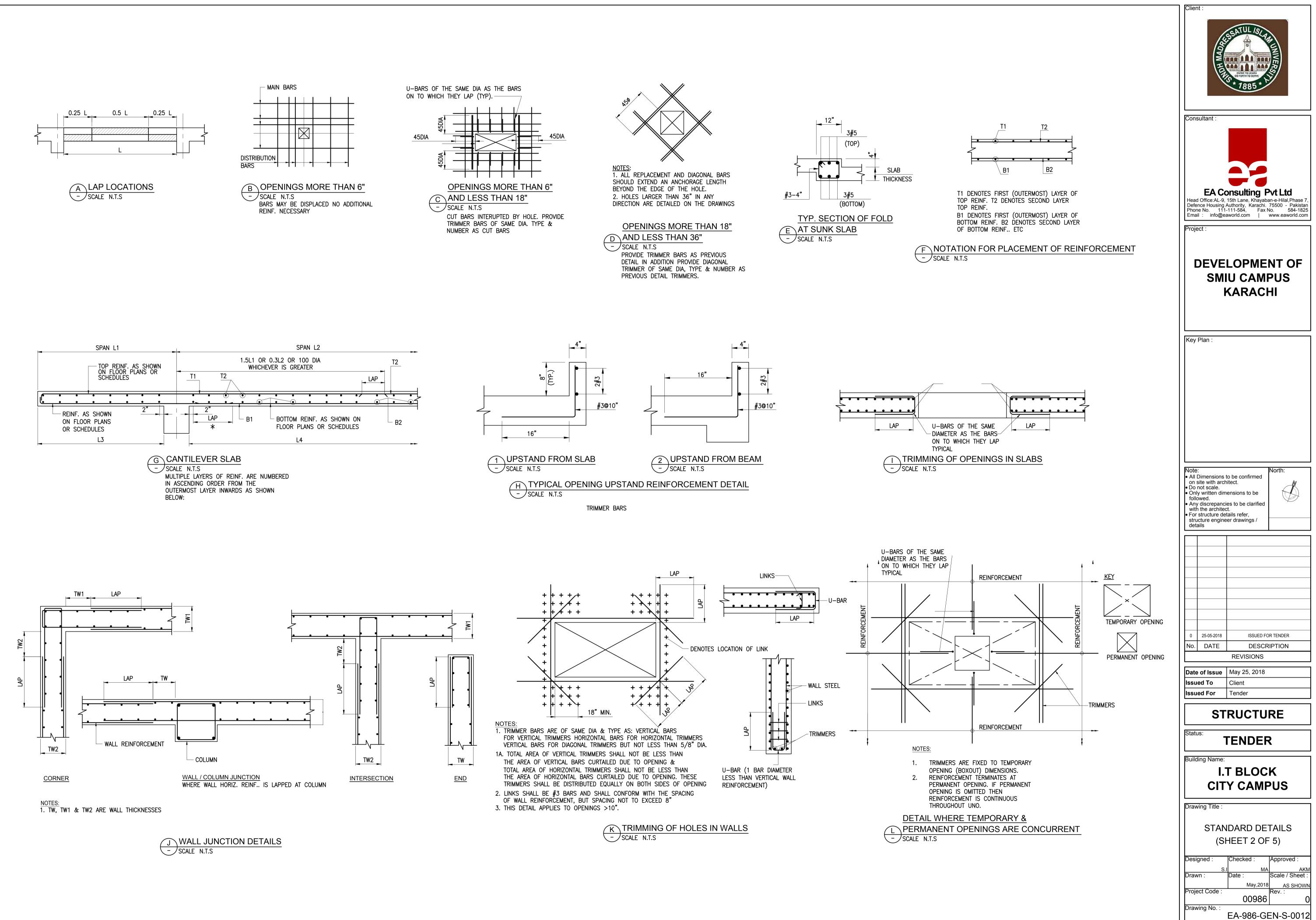
4 AT SUPPORT CASE-3 SCALE N.T.S

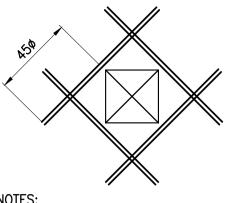
CLEAR DISTANCE BETWEEN DINAL BARS = 6" UNLESS	Con
ED OTHERWISE. FORCEMENT FOR ALL BEAMS	
HAN 2'-6" (OVERALL) UNO IDTH OF BEAM SIDE REFT	
8" #4@10" 12" #4@8"	Hea Defe
16" #4@6" GREATER THAN 21" #5@8"	Pho Ema
FT IS TO BE DETAILED	Proj
USLY, LAPS IN REFT MAY OCCUR SHADED AREAS SHOWN BELOW:	
25 L0.25 L	
C LAP LOCATIONS - SCALE N.T.S	Key
	Note ● All
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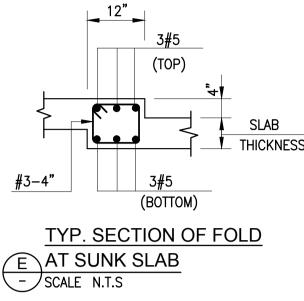


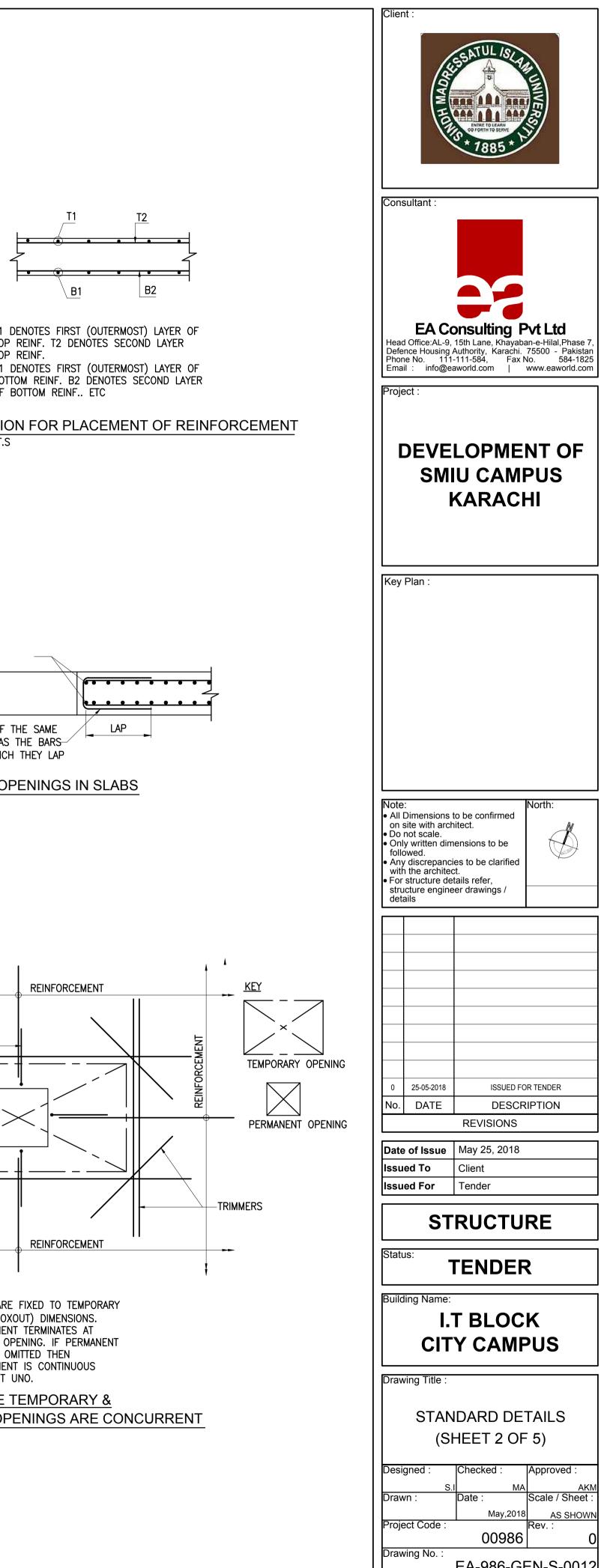
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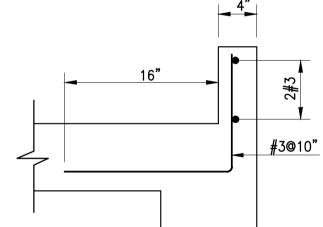
Ta – TENSION ANCHORAGE

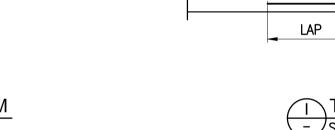


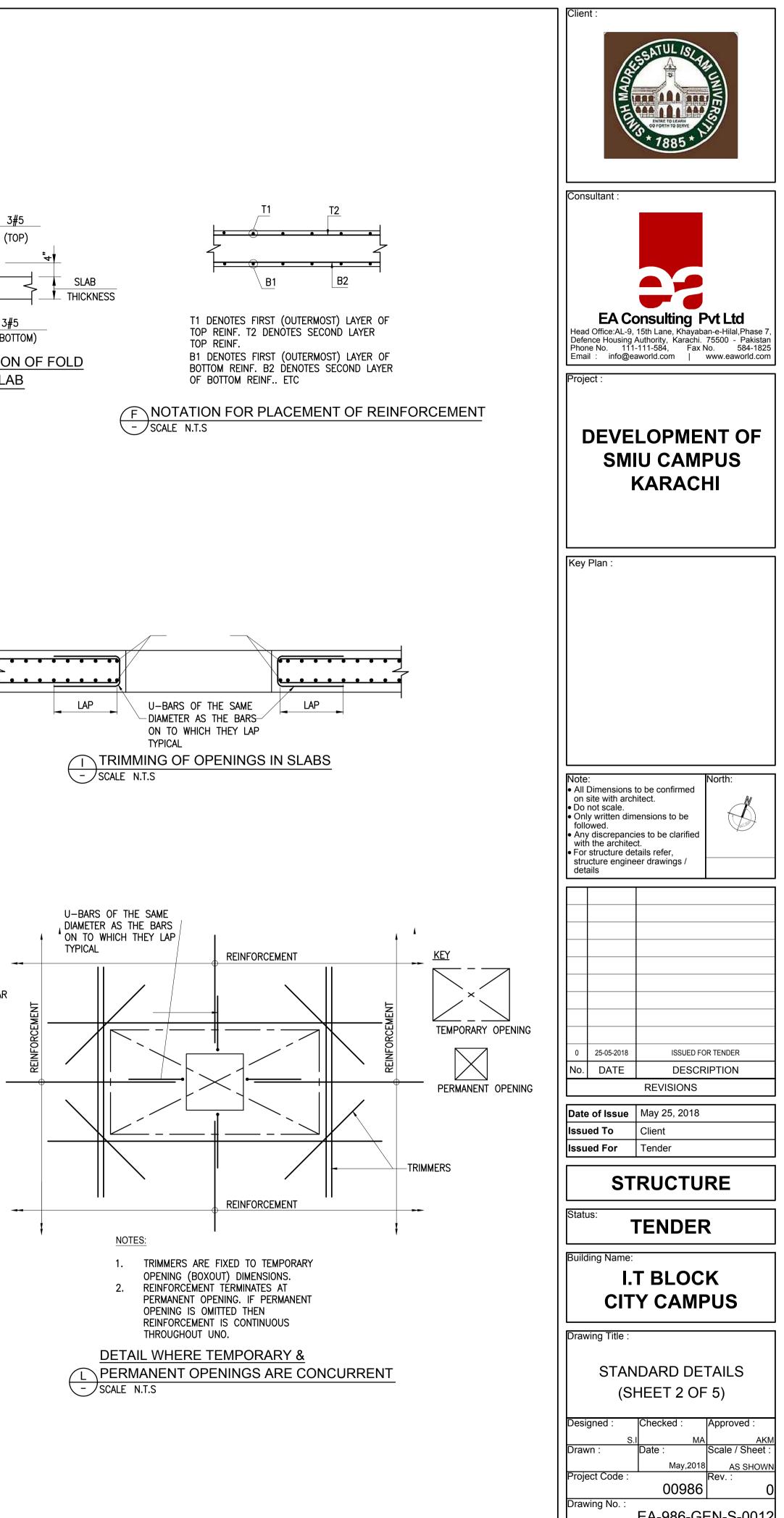


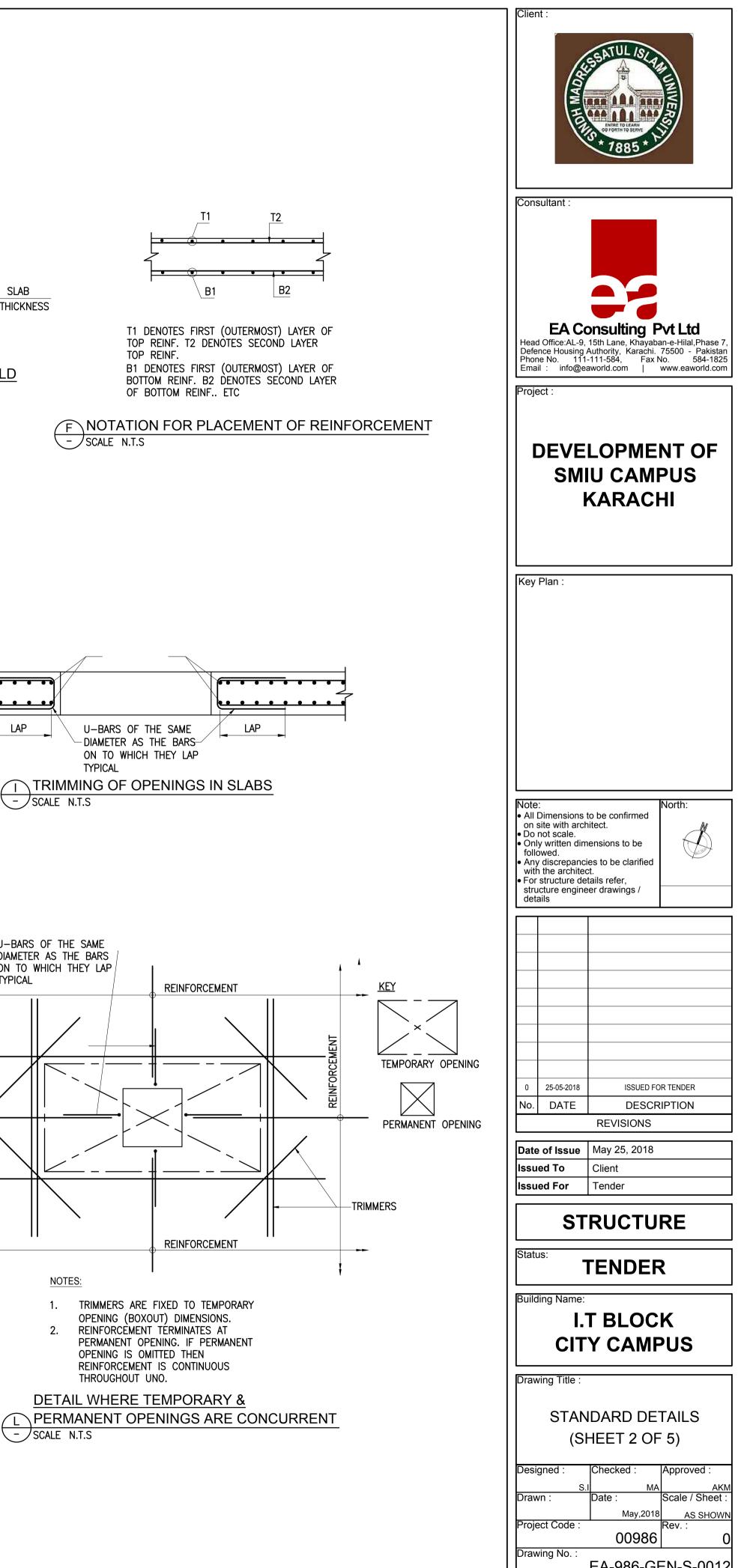


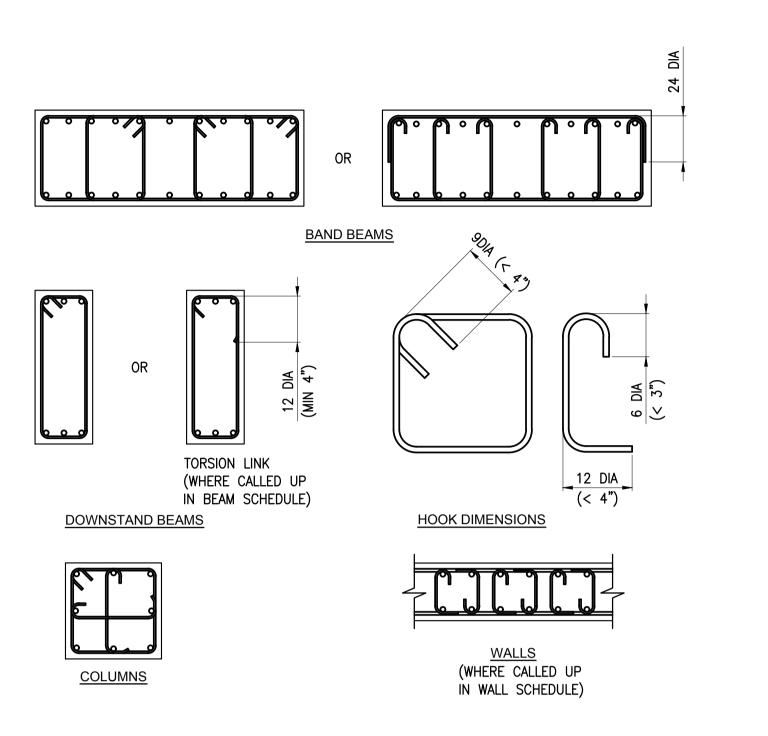


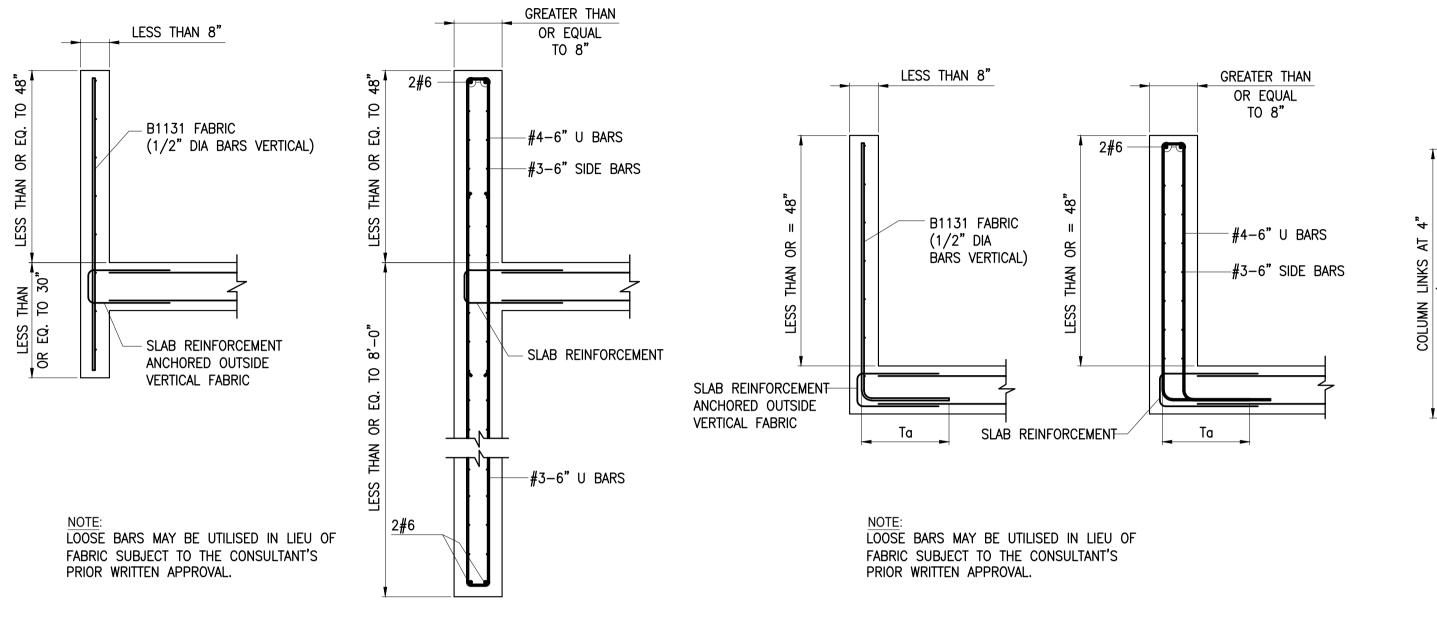






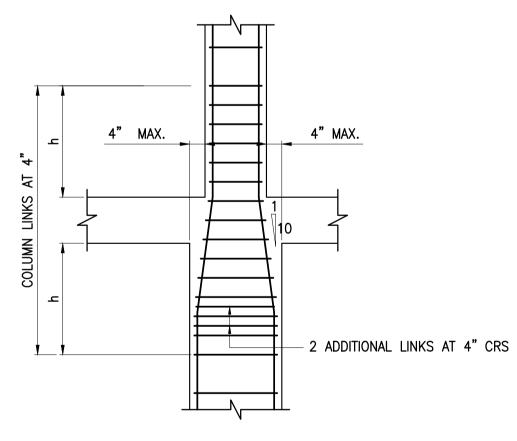






A TYPICAL LINK SHAPES - SCALE N.T.S

SCALE N.T.S

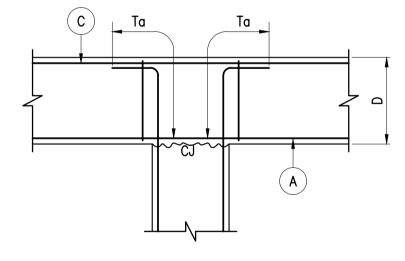


SYMMETRICAL COLUMN JUNCTION E SHOWN WITH STEP 4" OR LESS - SCALE N.T.S NOTE: 1. WHERE STEP IS GREATER THAN 4" BARS FROM LARGER COLUMN TO BE BENT AT 90° AND TERMINATED AS SHOWN IN DETAIL 1.

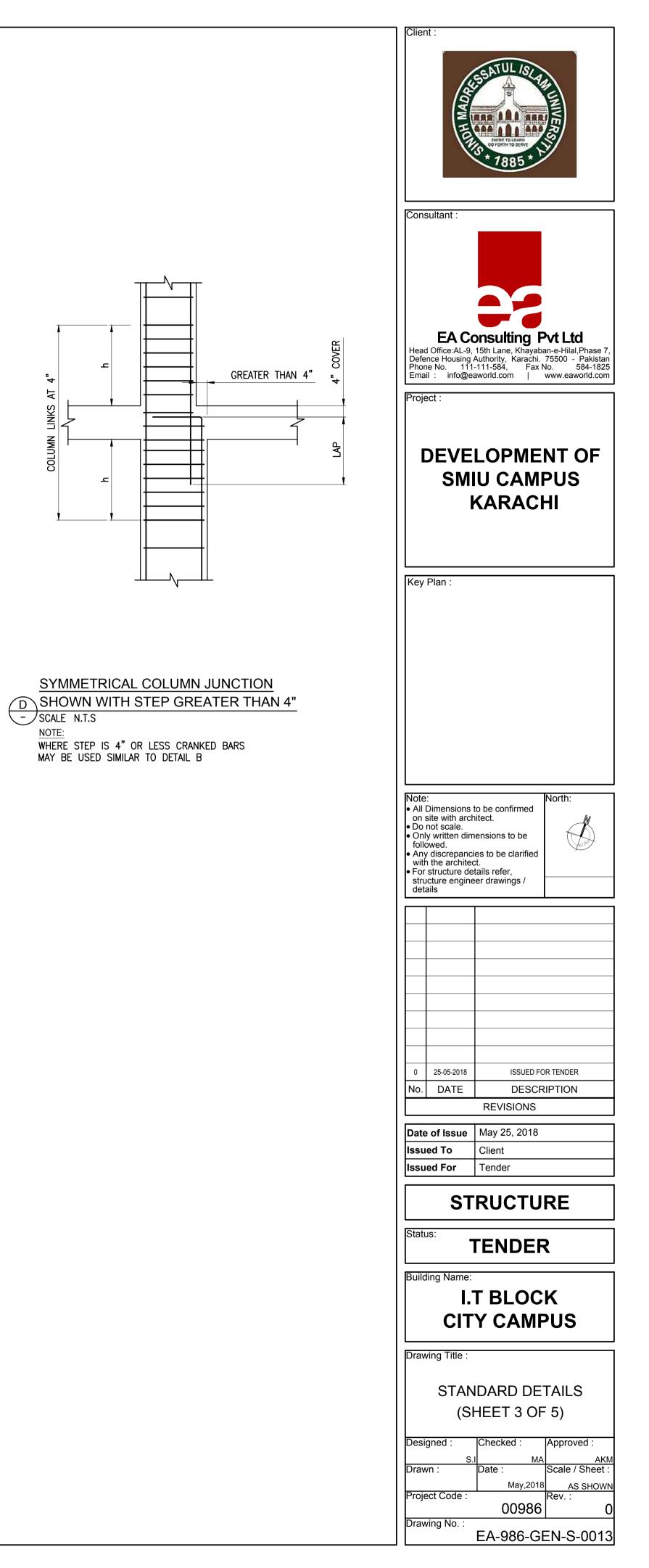
B UPSTAND/DOWNSTAND REINFORCEMENT

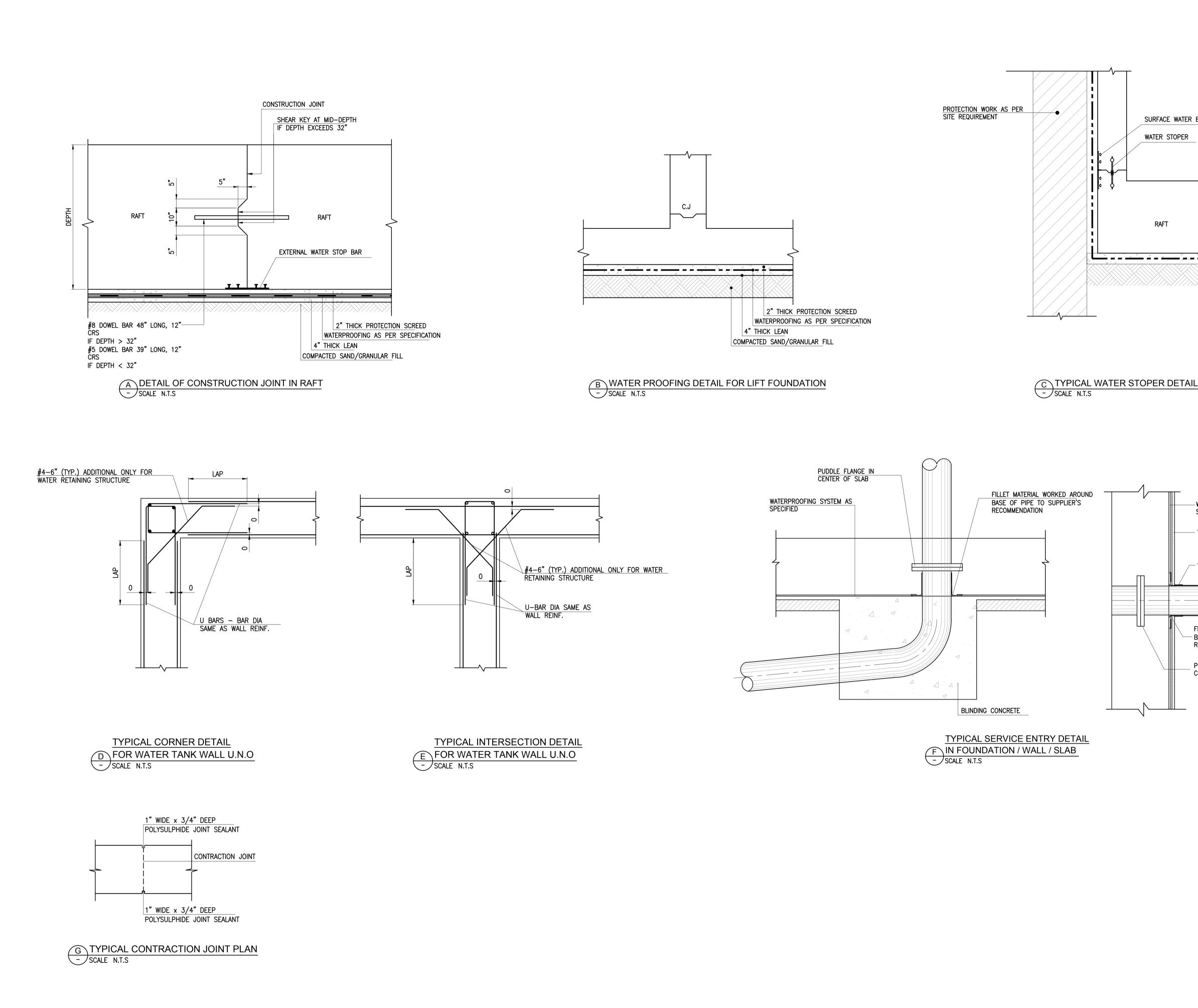
C UPSTAND REINFORCEMENT - SCALE N.T.S

NOTE:



COLUMN BEAM JUNCTION DETAIL F SHOWN WITH STEP 4" OR LESS - SCALE N.T.S

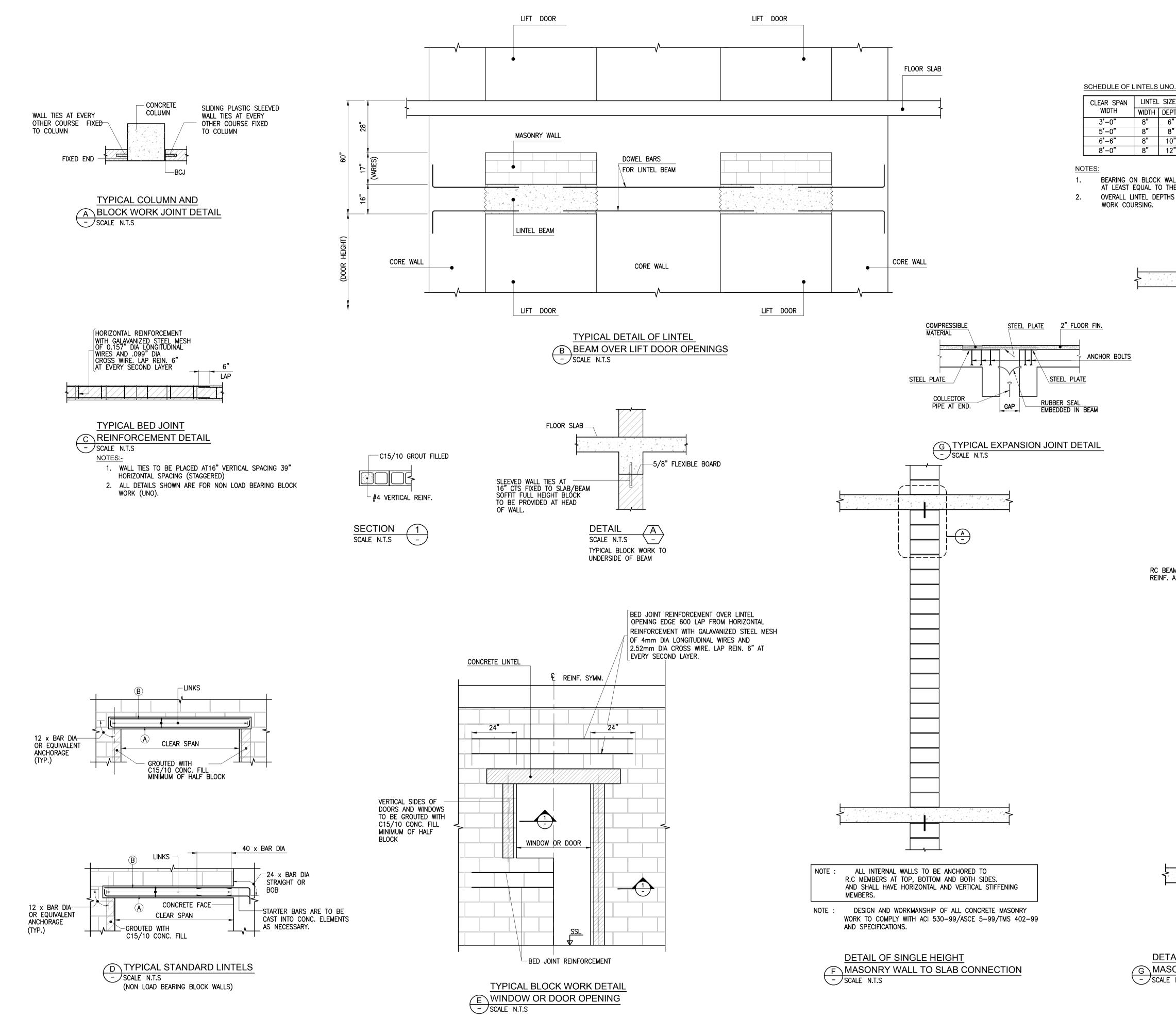




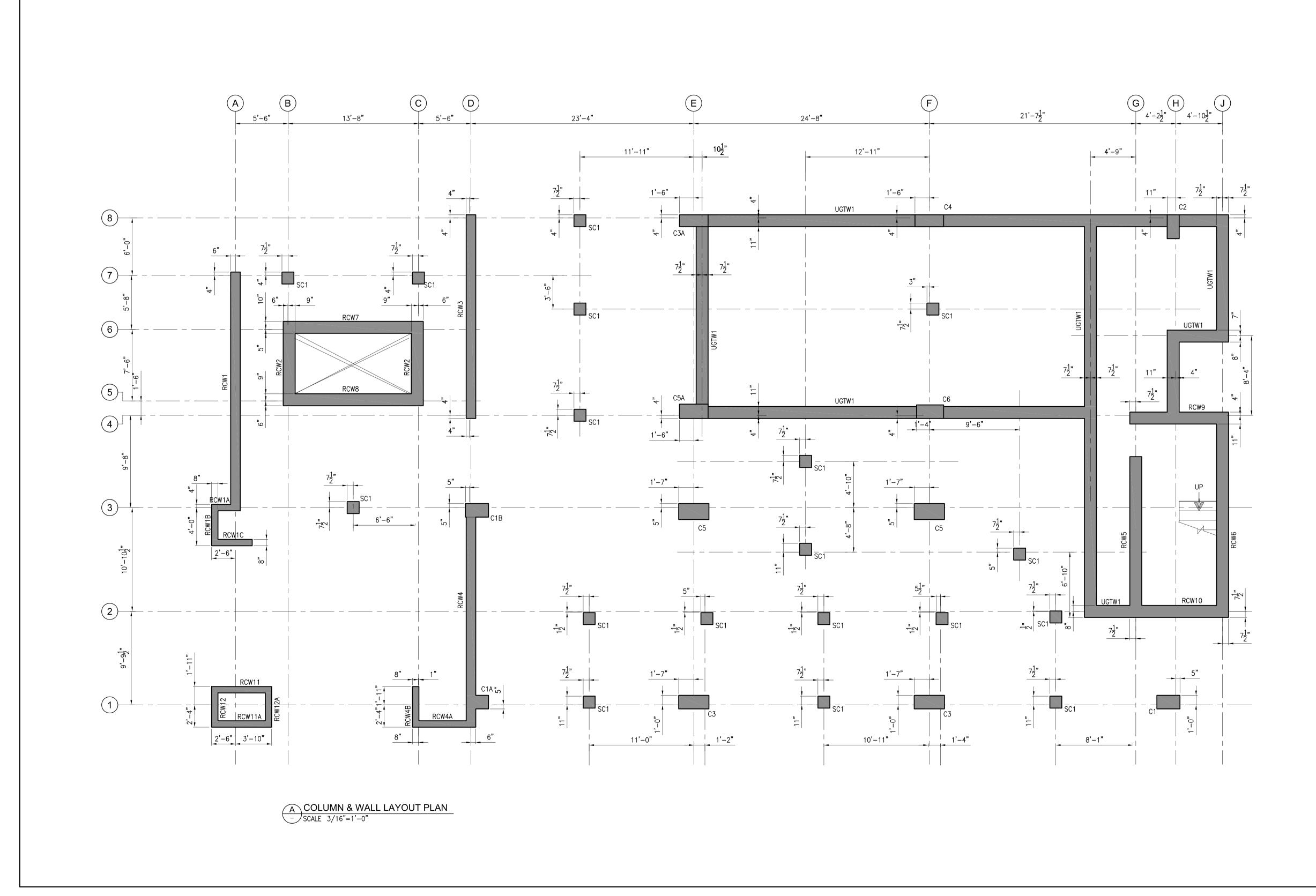
RAFT

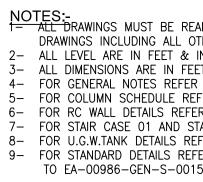
	BYTET D LEARN DO FORTH TO SERVE 3 * 1885 * 11
	Consultant : EAConsulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
	DEVELOPMENT OF SMIU CAMPUS KARACHI
- WATERPROOFING SYSTEM AS SPECIFIED - 1/8" THK.PROTECTION BOARD	Note: • All Dimensions to be confirmed on site with architect. • Do not scale.
FILLET MATERIAL WORKED AROUND	 Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
RECOMMENDATION PUDDLE FLANGE IN CENTRE OF WALL	0 25-05-2018 0 25-05-2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS
	Issued For Tender STRUCTURE Status: TENDER Building Name:
	I.T BLOCK CITY CAMPUS Drawing Title : STANDARD DETAILS (SHEET 4 OF 5)
	Designed : Checked : Approved : S.I MA AKM Drawn : Date : Scale / Sheet : May,2018 AS SHOWN Project Code : Rev. : 00986 0 Drawing No. : EA-986-GEN-S-0014

Client :

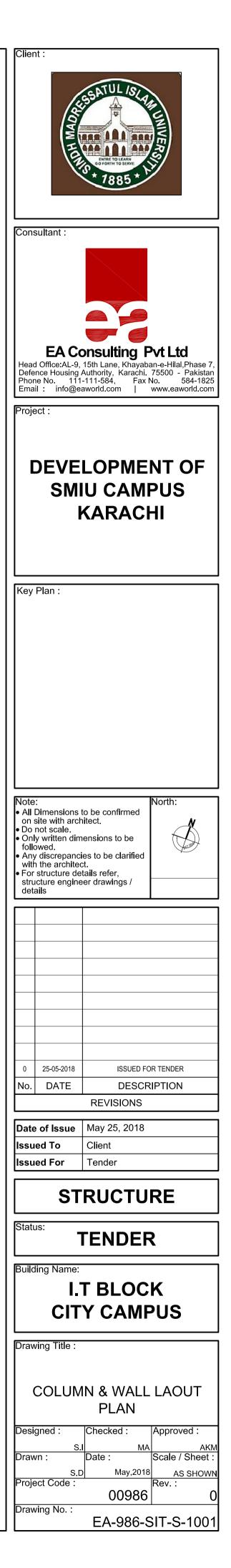


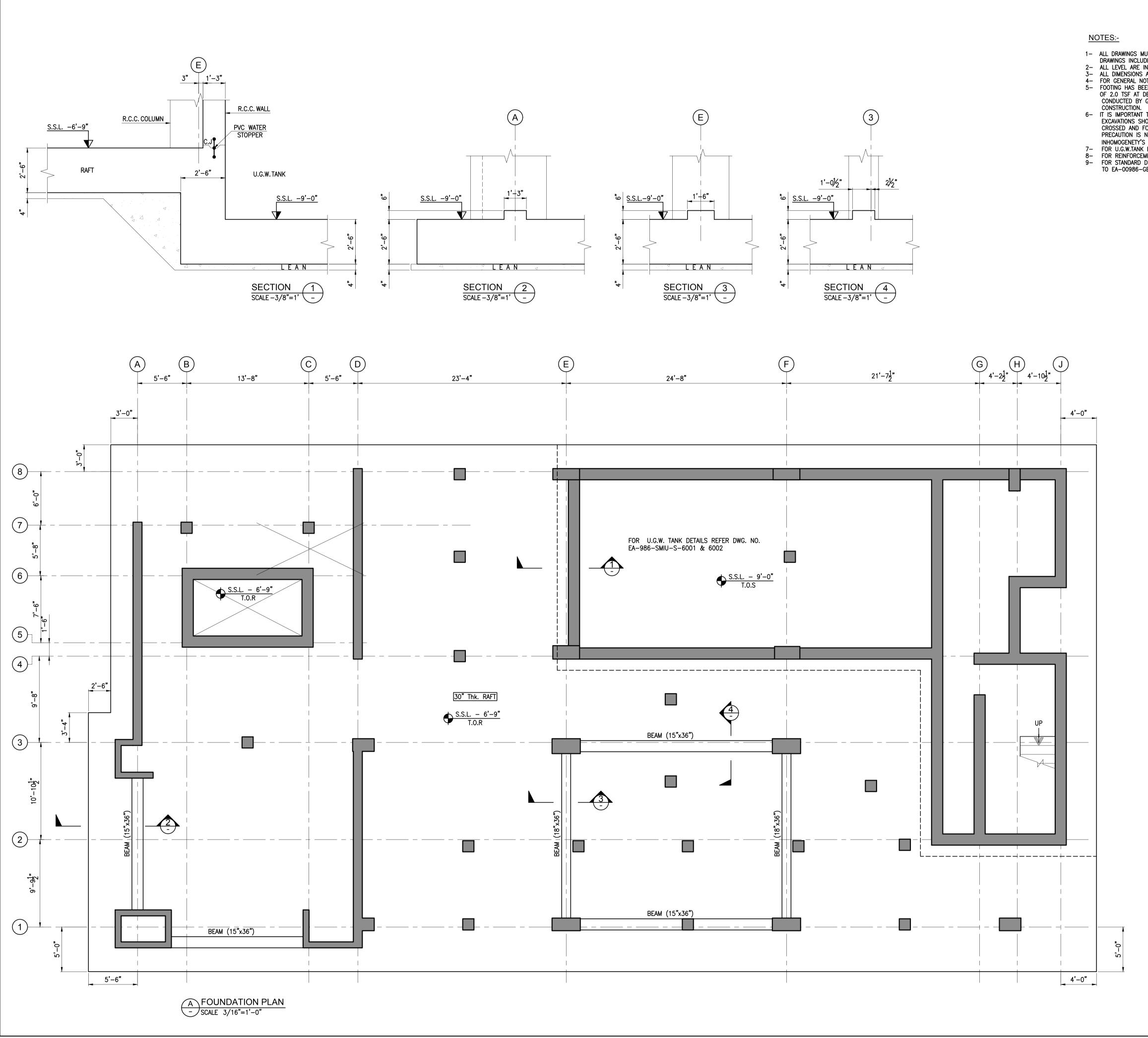
O. ZE REINFORCEMENT PTH A B LINKS 5" 2#4 2#4 #3-5" 8" 2#4 2#4 #3-5" 0" 2#5 2#4 #3-5" 2" 2#5 2#4 #3-5" 2" 2#5 2#4 #3-5" ALL ON EITHER SIDE OF OPENING SHALL BE HE OVERALL DEPTH OF THE LINTEL. IS COULD BE INCREASED TO SUIT BLOCK-	Client : Final State of the second s
/ \	Project :
	DEVELOPMENT OF SMIU CAMPUS KARACHI
	Key Plan :
12'-0" MAX.	Note: • All Dimensions to be confirmed
AM AS/SCH.	 on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
12'-0" MAX.	Image: Constraint of the system
	Issued To Client Issued For Tender
	STRUCTURE
	Status: TENDER
	Building Name: I.T BLOCK CITY CAMPUS
AIL OF SINGLE HEIGHT	Drawing Title :
SONRY WALL TO SLAB CONNECTION	STANDARD DETAILS (SHEET 5 OF 5)
	Designed : Checked : Approved : S.I MA AKM Drawn : Date : Scale / Sheet : May,2018 AS SHOWN Project Code : Rev. : 00986 0 Drawing No. : EA-986-GEN-S-0015

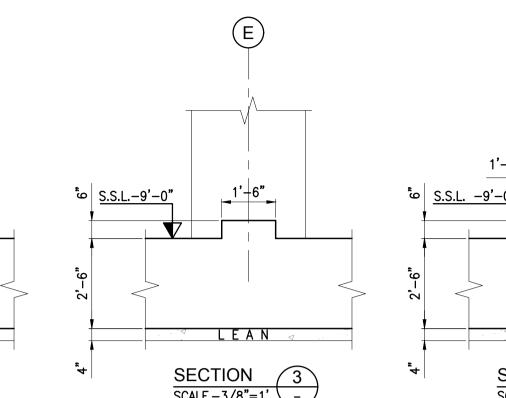


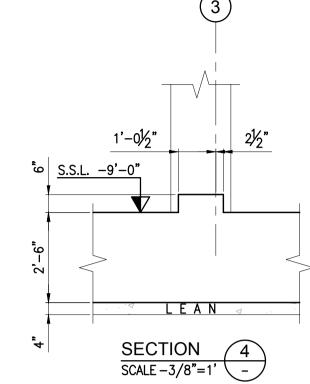


NOTES:-1 ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS INCLUDING ALL OTHER RELEVANT DISCIPLINE DRAWINGS.
ALL LEVEL ARE IN FEET & INCHES.
ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001.
FOR COLUMN SCHEDULE REFER DWG. NO EA-00986-SIT-S-1004 & S-1005
FOR RC WALL DETAILS REFER DWG. NO EA-00986-SIT-S-5001 TO S-5005
FOR STAIR CASE 01 AND STAIR CASE 02 REFER DWG. NO. EA-00986-SIT-S-7001 TO 7003
FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-0098Z E 6-S-SIT-S-6001 & S-6002
FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.









2- ALL LEVEL ARE IN FEET & INCHES. 3- ALL DIMENSIONS ARE IN FEET INCHES U.N.O. CONSTRUCTION.

Client :

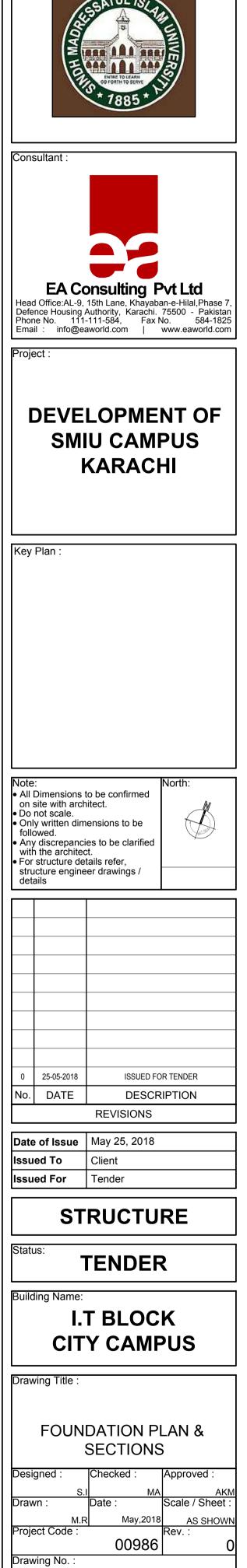
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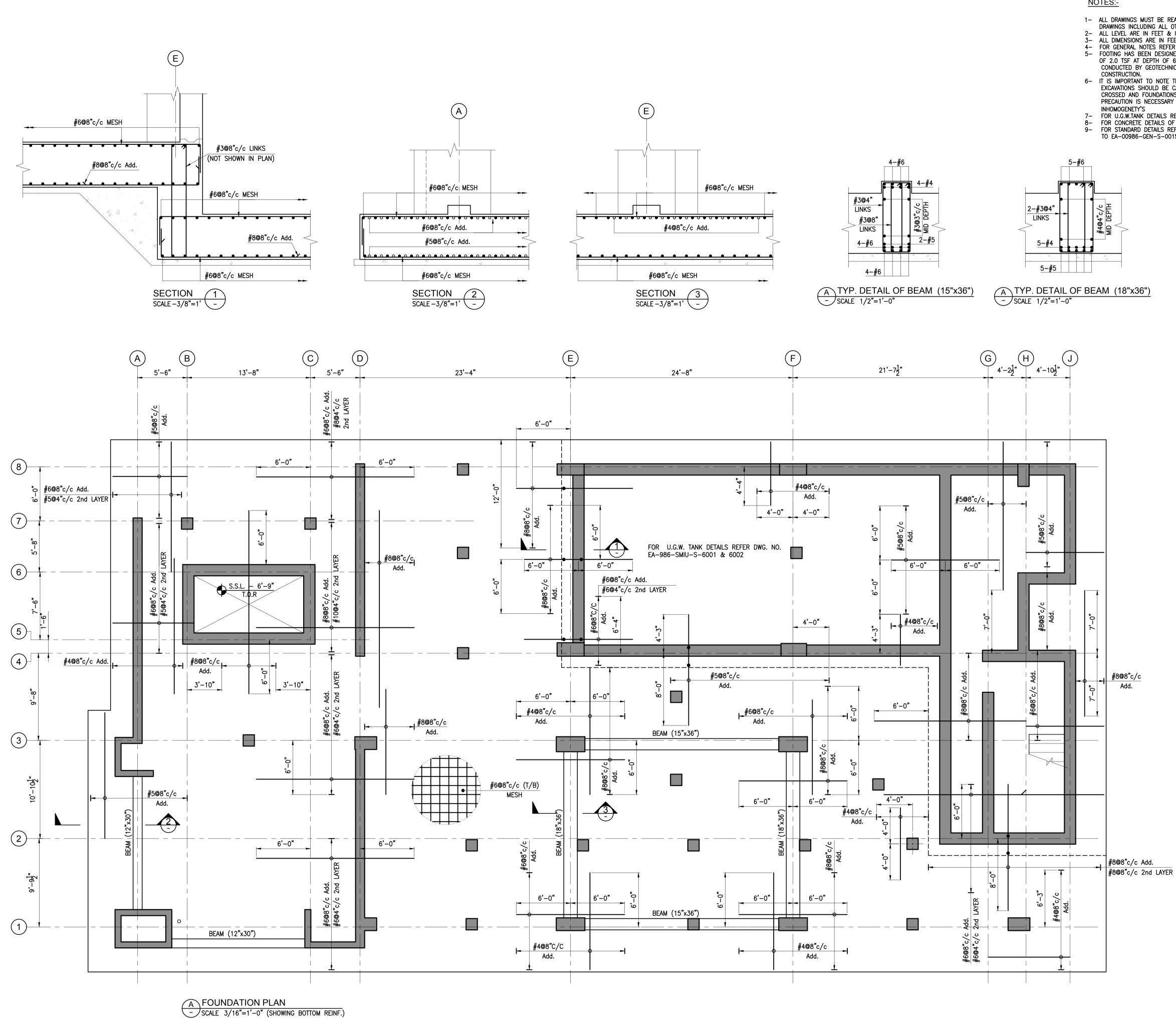
4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001.

FOOTING HAS BEEN DESIGNED USING AN ALLOWABLE BEARING CAPACITY
 OF 2.0 TSF AT DEPTH OF 6.75 FEET FROM E.G.L. FOR RAFT AS PER GEOTECHREPORT AS CONDUCTED BY GEOTECHNICAL SERVICES. THIS SHOULD BE VERIFIED PRIOR TO START OF

6- IT IS IMPORTANT TO NOTE THAT BEFORE PLACING FOUNDATION CONCRETE THE EXCAVATIONS SHOULD BE CAREFULLY INSPECTED TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS PRECAUTION IS NECESSARY TO GUARD AGAINST LOCALIZED FILLS AND

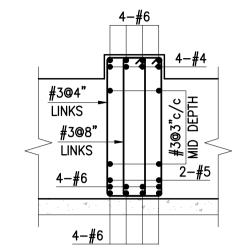
7- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SIT-S-6001 & 6002. 8- FOR REINFORCEMENT DETAILS OF RAFT REFER DWG. NO EA-00986-SIT-S-1003 & 1004. 9- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.

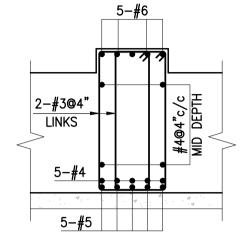




NOTES:-

- 2- ALL LEVEL ARE IN FEET & INCHES. 3- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.





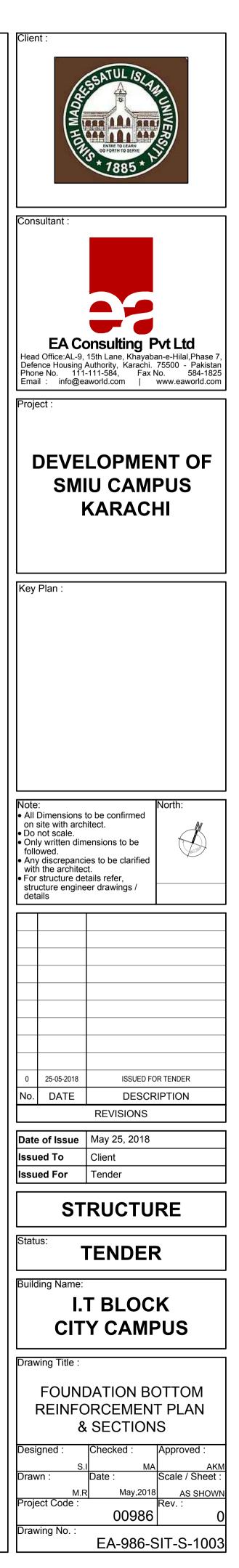
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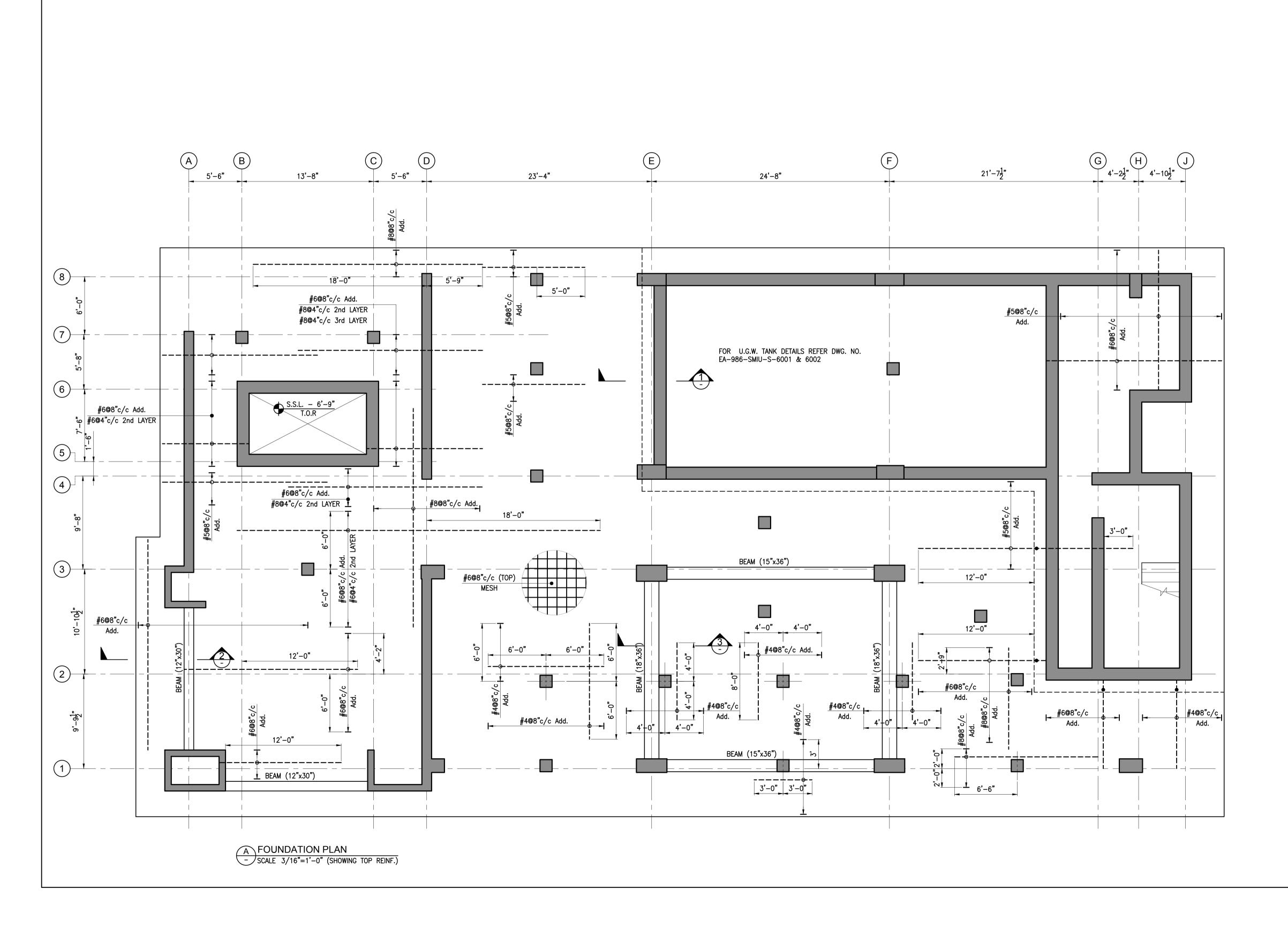
4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001. 5- FOOTING HAS BEEN DESIGNED USING AN ALLOWABLE BEARING CAPACITY OF 2.0 TSF AT DEPTH OF 6.75 FEET FROM E.G.L. FOR RAFT AS PER GEOTECHREPORT AS

CONDUCTED BY GEOTECHNICAL SERVICES. THIS SHOULD BE VERIFIED PRIOR TO START OF 6- IT IS IMPORTANT TO NOTE THAT BEFORE PLACING FOUNDATION CONCRETE THE EXCAVATIONS SHOULD BE CAREFULLY INSPECTED TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS DEFEND TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATION ARE BEING PLACED IN COMPETENT SOIL.

PRECAUTION IS NECESSARY TO GUARD AGAINST LOCALIZED FILLS AND

FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SIT-S-6001 & 6002.
FOR CONCRETE DETAILS OF RAFT REFER DWG. NO EA-00986-SIT-S-1002.
FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.





NOTES:-

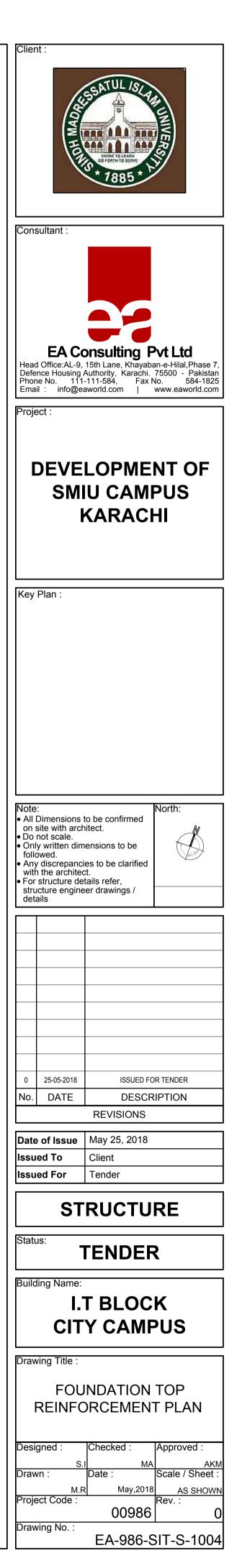
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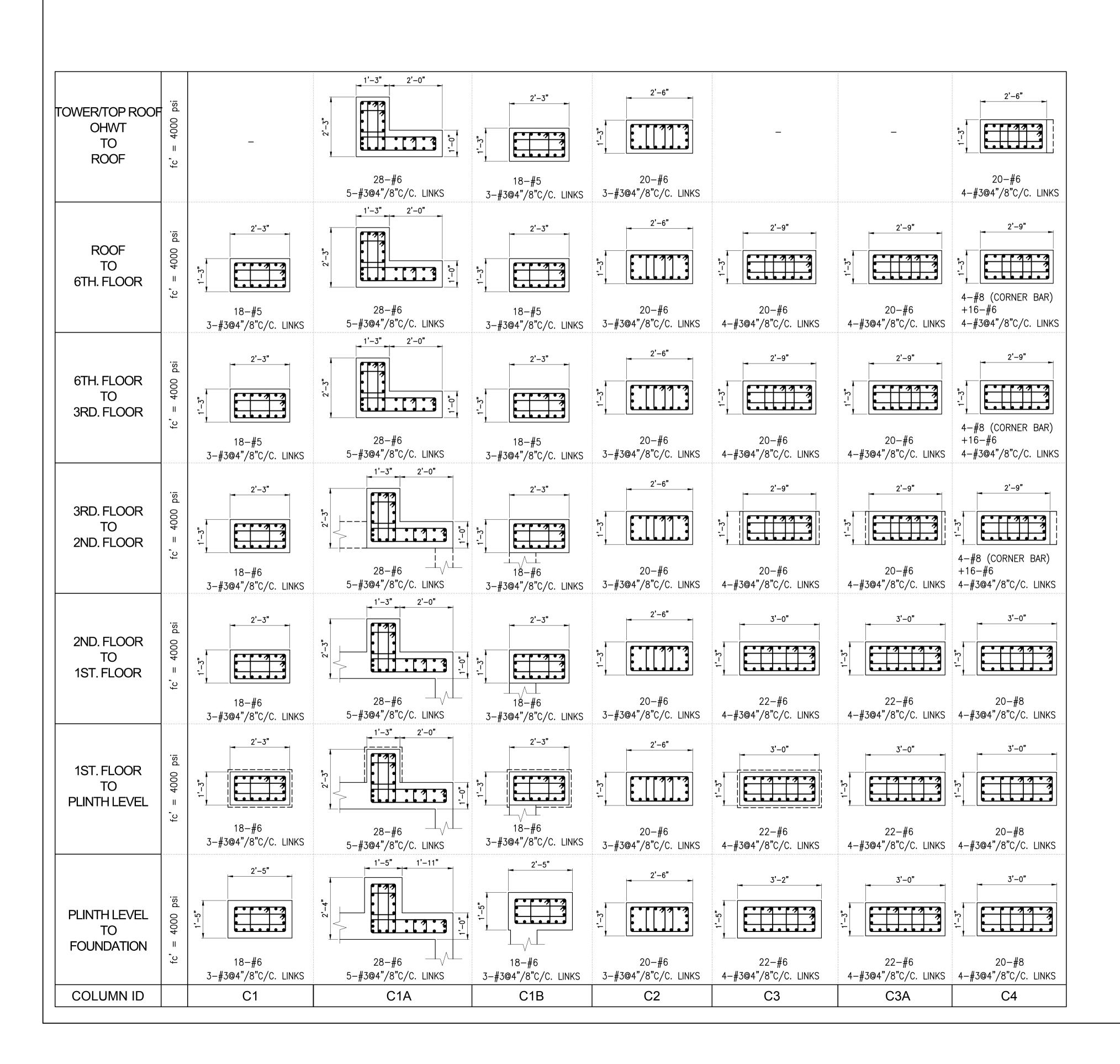
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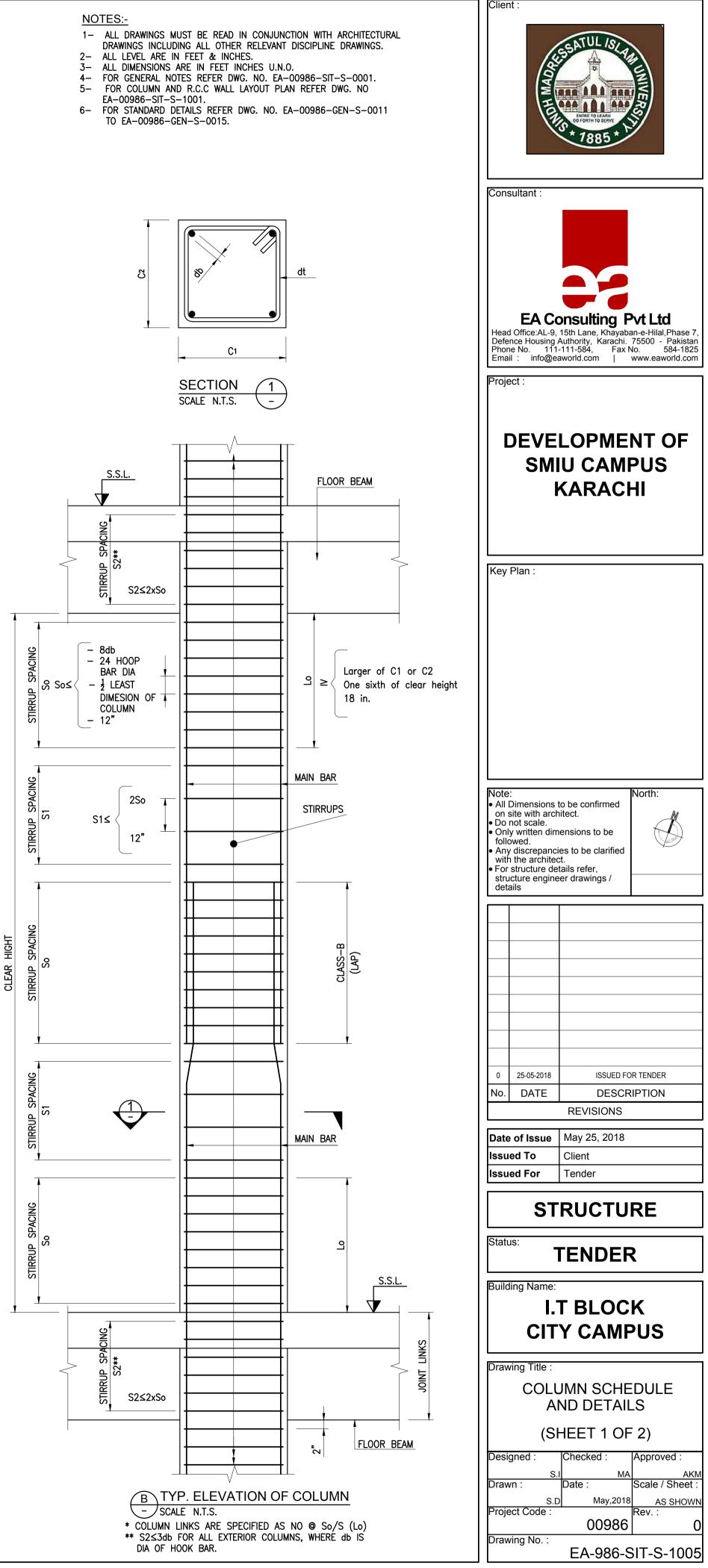
4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001. 5- FOOTING HAS BEEN DESIGNED USING AN ALLOWABLE BEARING CAPACITY OF 2.0 TSF AT DEPTH OF 6.75 FEET FROM E.G.L. FOR RAFT AS PER GEOTECHREPORT AS

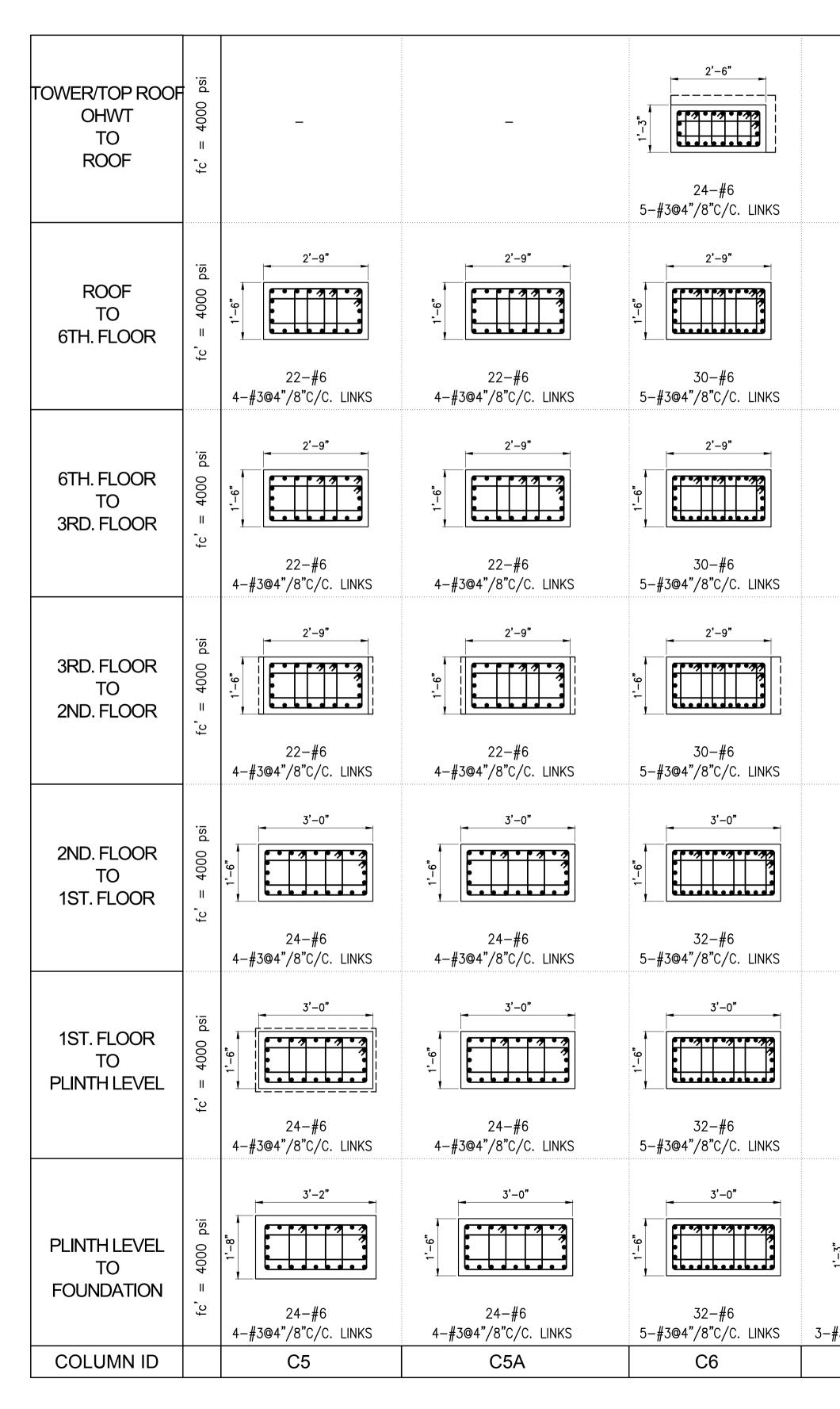
CONDUCTED BY GEOTECHNICAL SERVICES. THIS SHOULD BE VERIFIED PRIOR TO START OF 6- IT IS IMPORTANT TO NOTE THAT BEFORE PLACING FOUNDATION CONCRETE THE EXCAVATIONS SHOULD BE CAREFULLY INSPECTED TO ENSURE THAT FILL HAS BEEN CROSSED AND FOUNDATIONS ARE BEING PLACED IN COMPETENT SOIL. THIS

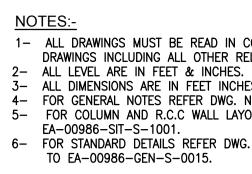
7- FOR U.G.W.TANK DETAILS REFER DWG. NO. EA-00986-SIT-S-6001 & 6002. 8- FOR CONCRETE DETAILS OF RAFT REFER DWG. NO. EA-00986-SIT-S-1002 9- FOR SECTION MARKS DETAILS REFER DWG. NO. EA-00986-SIT-S-1002 & 1003 10- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.

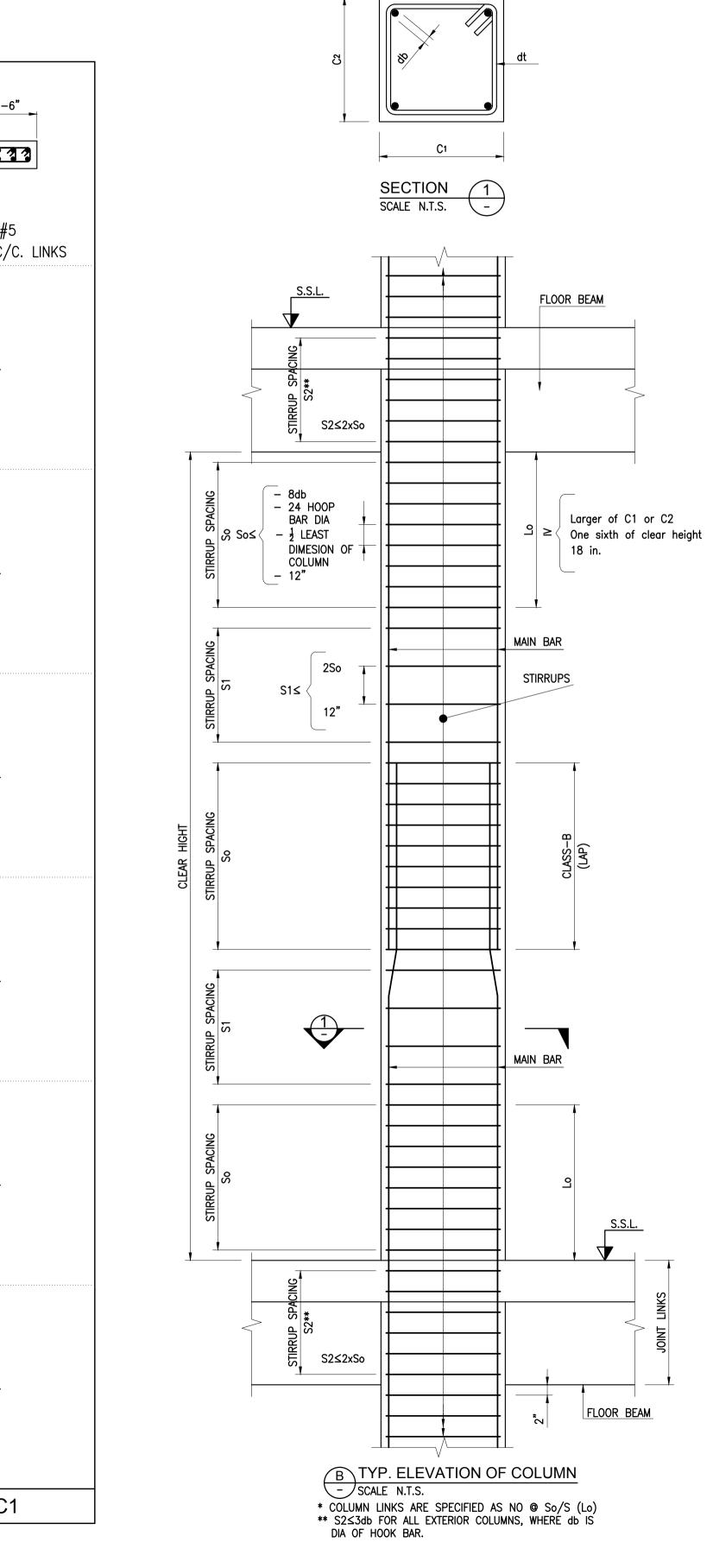


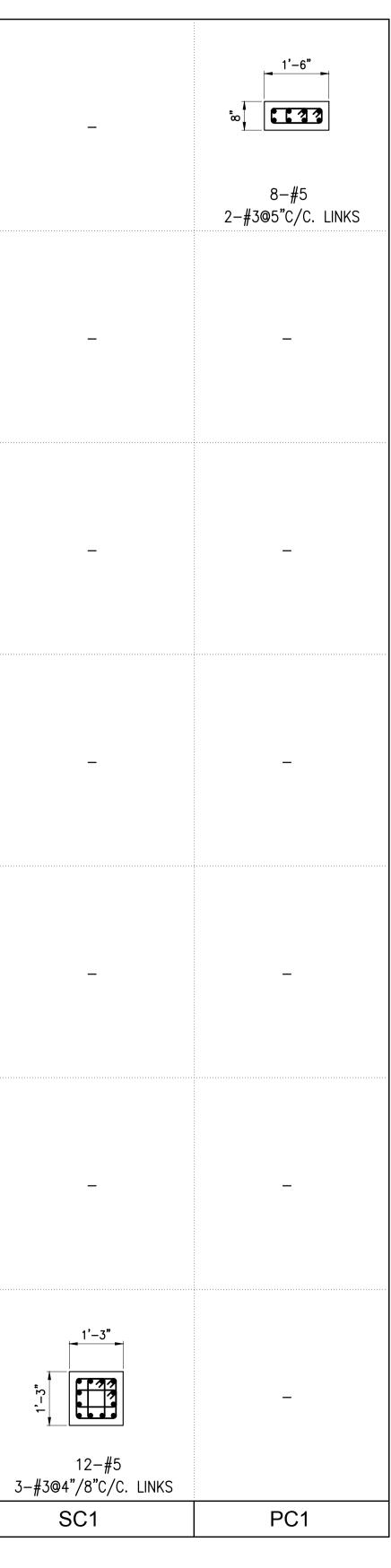












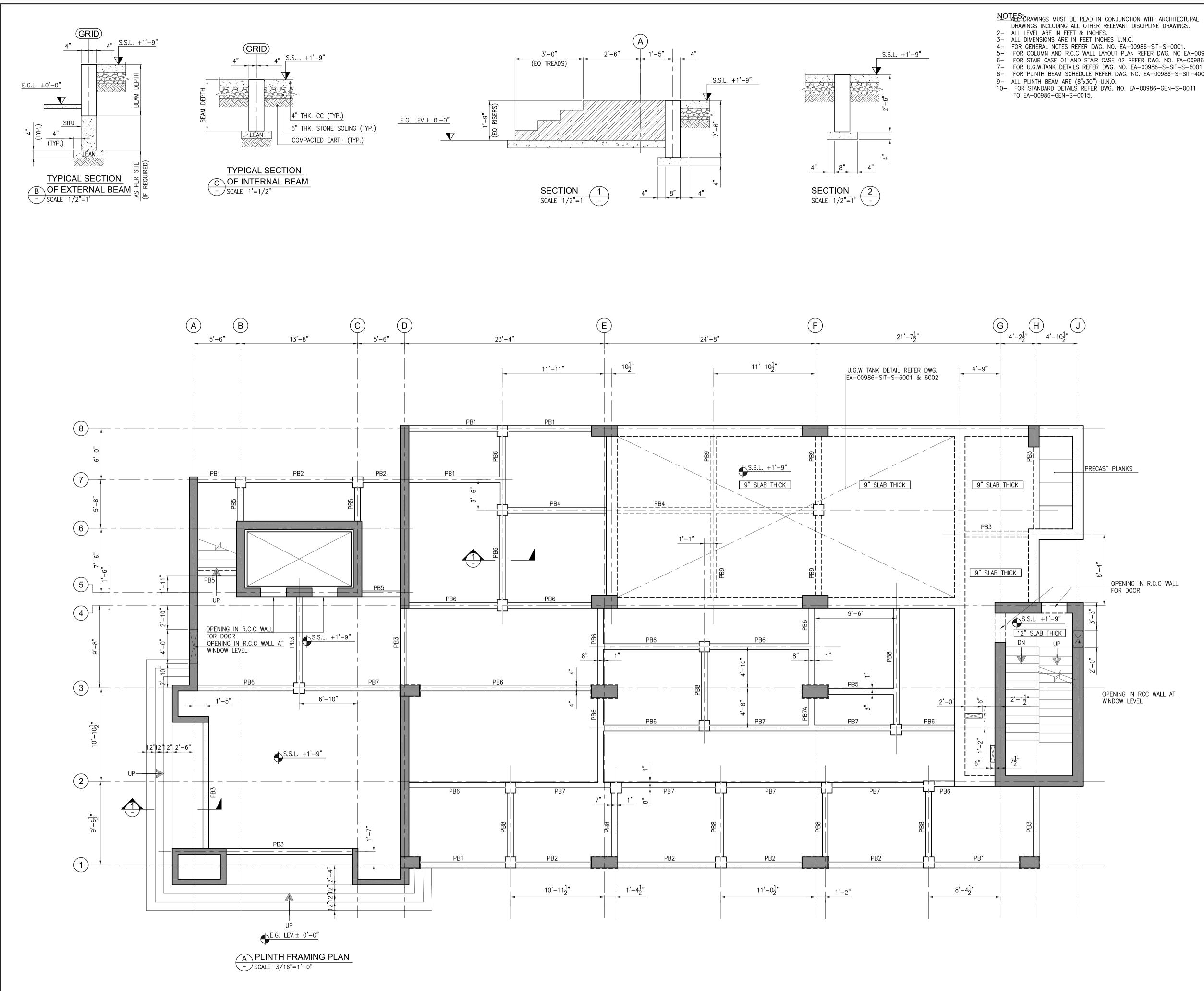
1- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS INCLUDING ALL OTHER RELEVANT DISCIPLINE DRAWINGS. 3- ALL DIMENSIONS ARE IN FEET INCHES U.N.O. 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001. 5- FOR COLUMN AND R.C.C WALL LAYOUT PLAN REFER DWG. NO

6- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.

Client :		
Cilent .	SSATUL /SLA	UNIVERSI
Consultant :		
Head Office:AL-9, Defence Housing / Phone No. 111- Email : info@ea	DISULTING F 15th Lane, Khayaba Authority, Karachi. 111-584, Fax Maworld.com	an-e-Hilal,Phase 7, 75500 - Pakistan
Project :		
SMI	LOPME U CAMI (ARACI	PUS
Key Plan :		
Note:		
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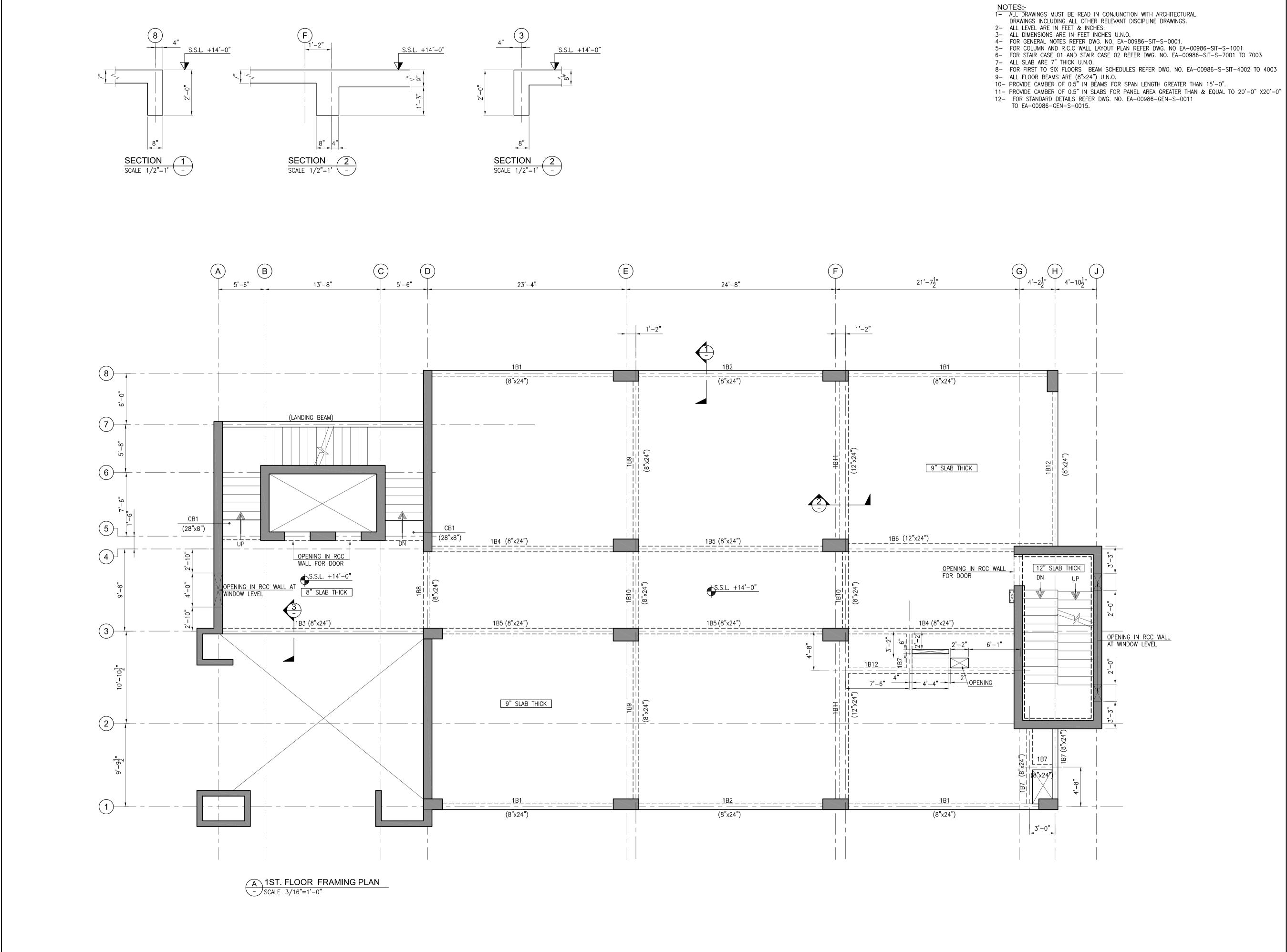
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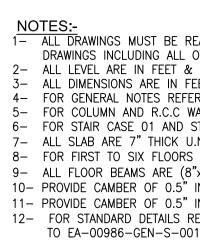


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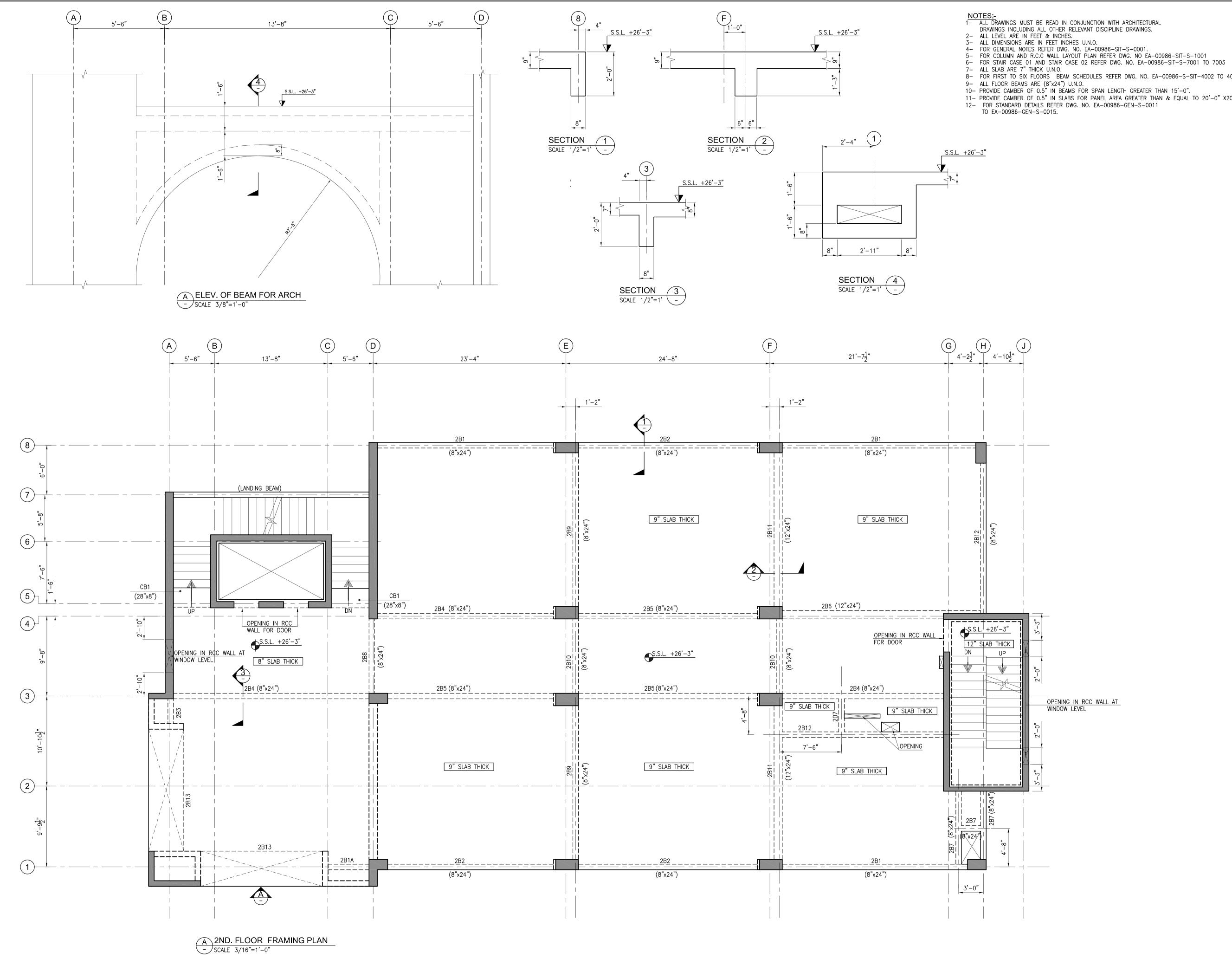
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Consultant : EAConsulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :		
DEVELOPMENT OF SMIU CAMPUS KARACHI		
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Building Name: I.T BLOCK CITY CAMPUS		
Drawing Title : 1ST. FLOOR FRAMING PLAN		
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8- FOR FIRST TO SIX FLOORS BEAM SCHEDULES REFER DWG. NO. EA-00986-S-SIT-4002 TO 4003

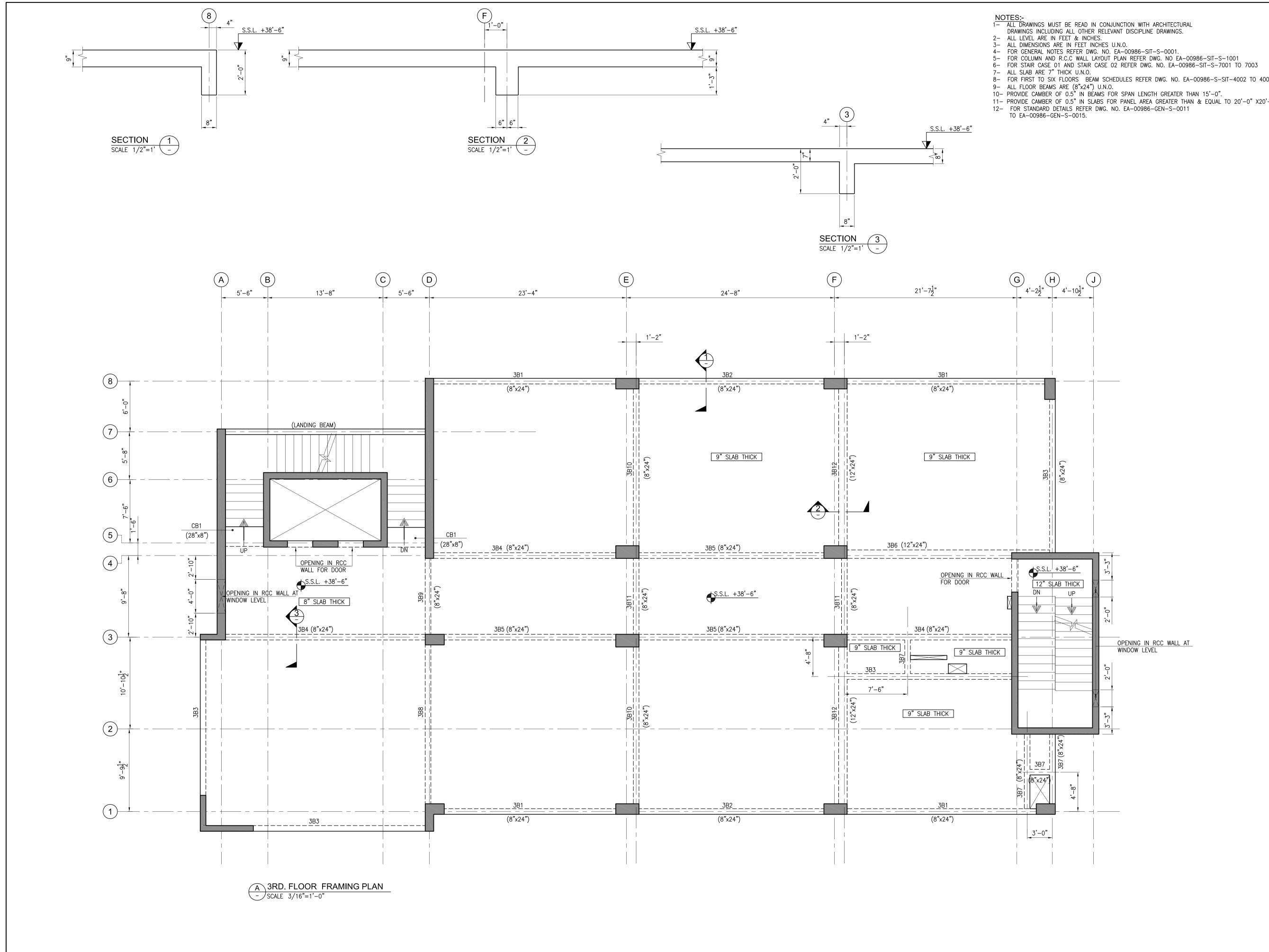
10- PROVIDE CAMBER OF 0.5" IN BEAMS FOR SPAN LENGTH GREATER THAN 15'-0".
11- PROVIDE CAMBER OF 0.5" IN SLABS FOR PANEL AREA GREATER THAN & EQUAL TO 20'-0" X20'-0"
12- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.

Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com **DEVELOPMENT OF SMIU CAMPUS** KARACHI Key Plan : Note • All Dimensions to be confirmed On site with architect.
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Drawing No. :

EA-986-SIT-S-2003

OPENING IN RCC WALL AT WINDOW LEVEL



OPENING IN RCC WALL AT WINDOW LEVEL

8- FOR FIRST TO SIX FLOORS BEAM SCHEDULES REFER DWG. NO. EA-00986-S-SIT-4002 TO 4003

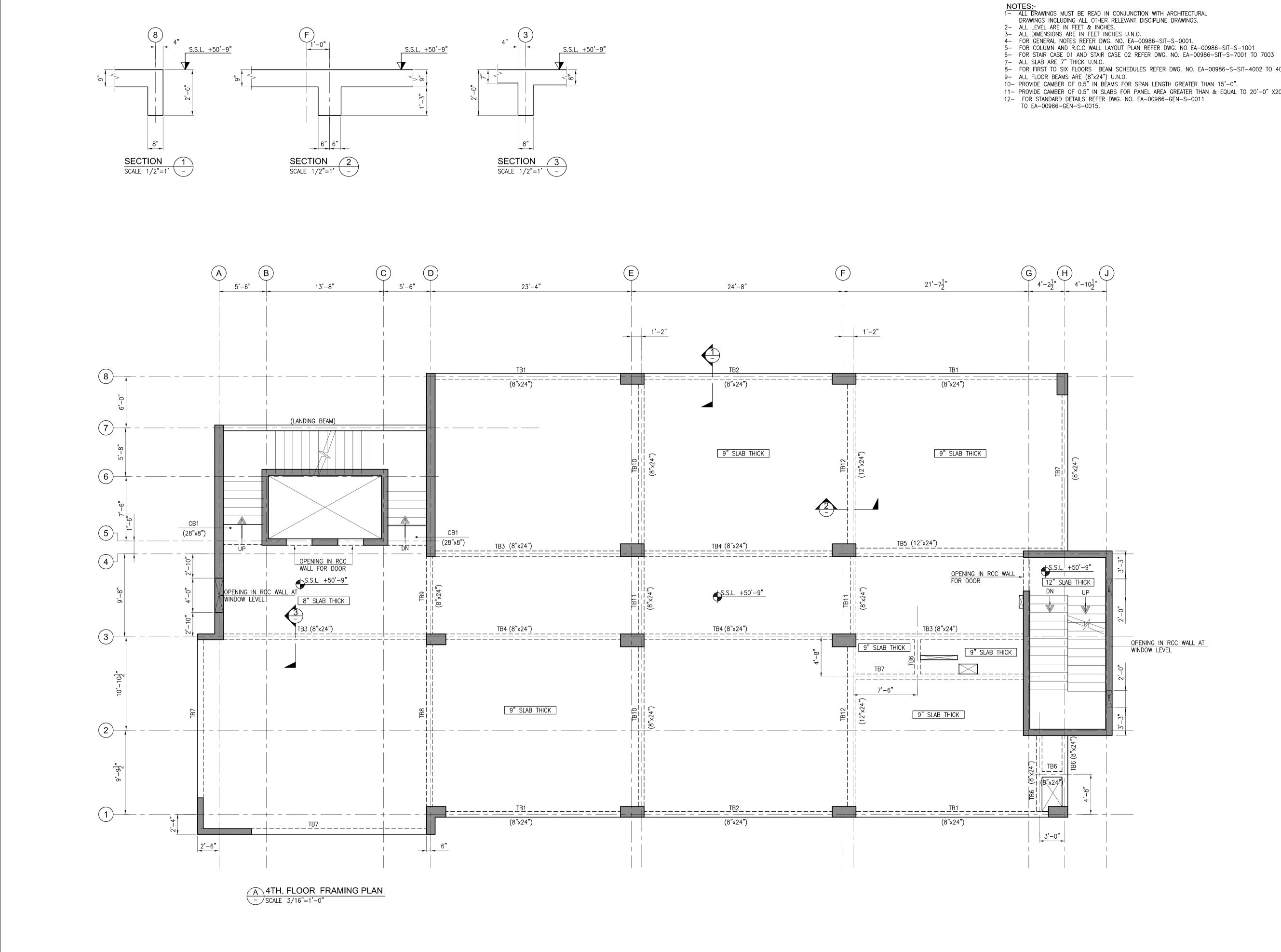
9- ALL FLOOR BEAMS ARE (8"x24") U.N.O.
10- PROVIDE CAMBER OF 0.5" IN BEAMS FOR SPAN LENGTH GREATER THAN 15'-0".
11- PROVIDE CAMBER OF 0.5" IN SLABS FOR PANEL AREA GREATER THAN & EQUAL TO 20'-0" X20'-0"
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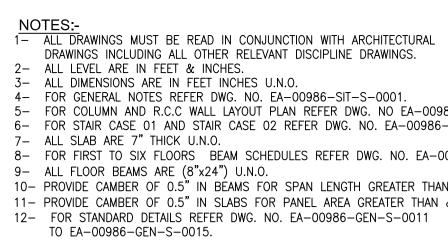
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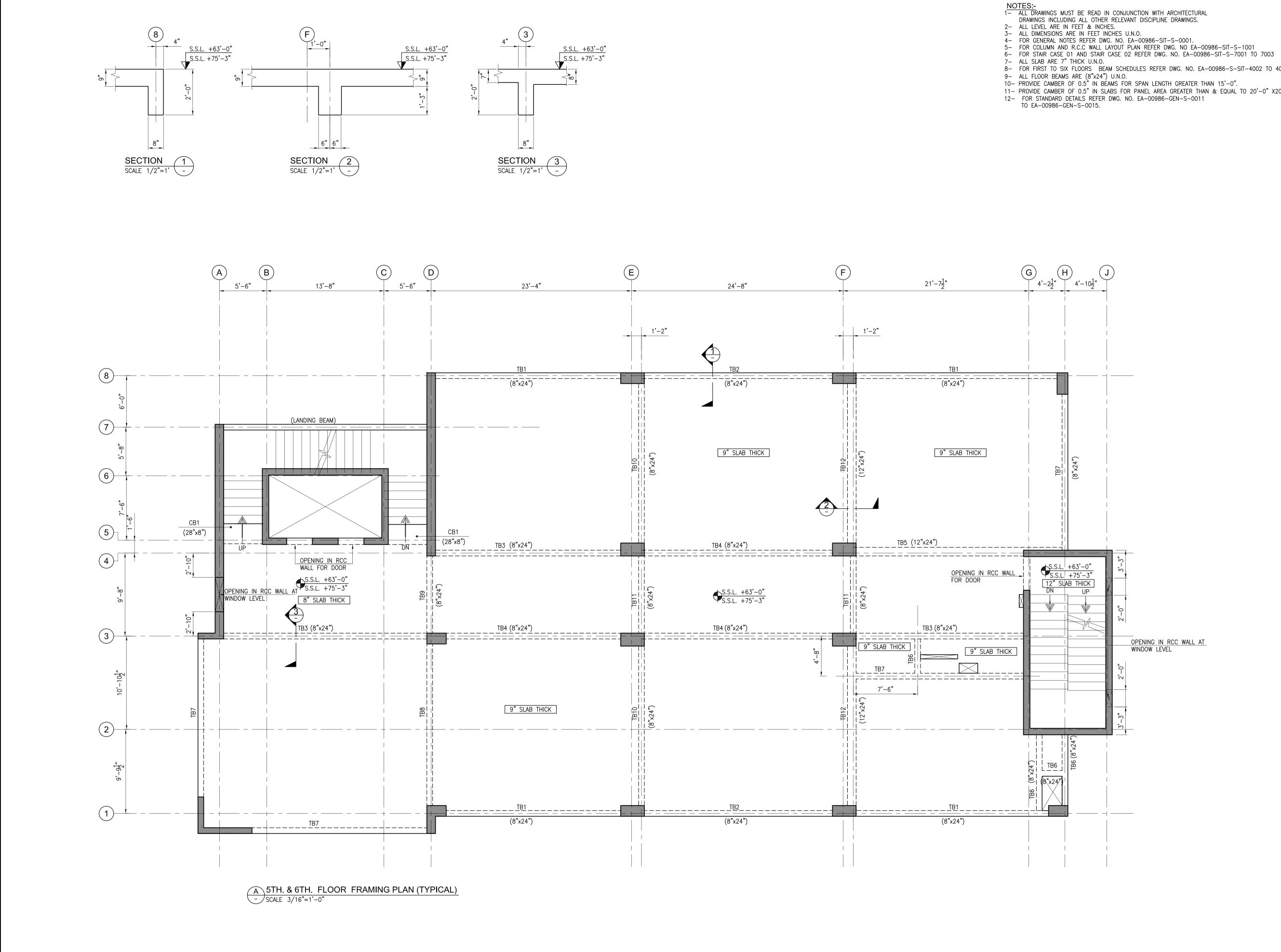
OPENING IN RCC WALL AT WINDOW LEVEL

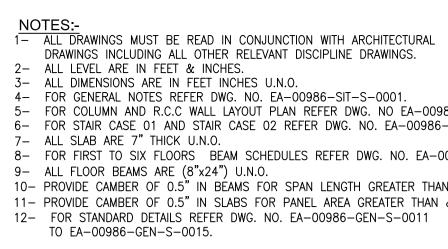
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Consultant : EAConsulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :			
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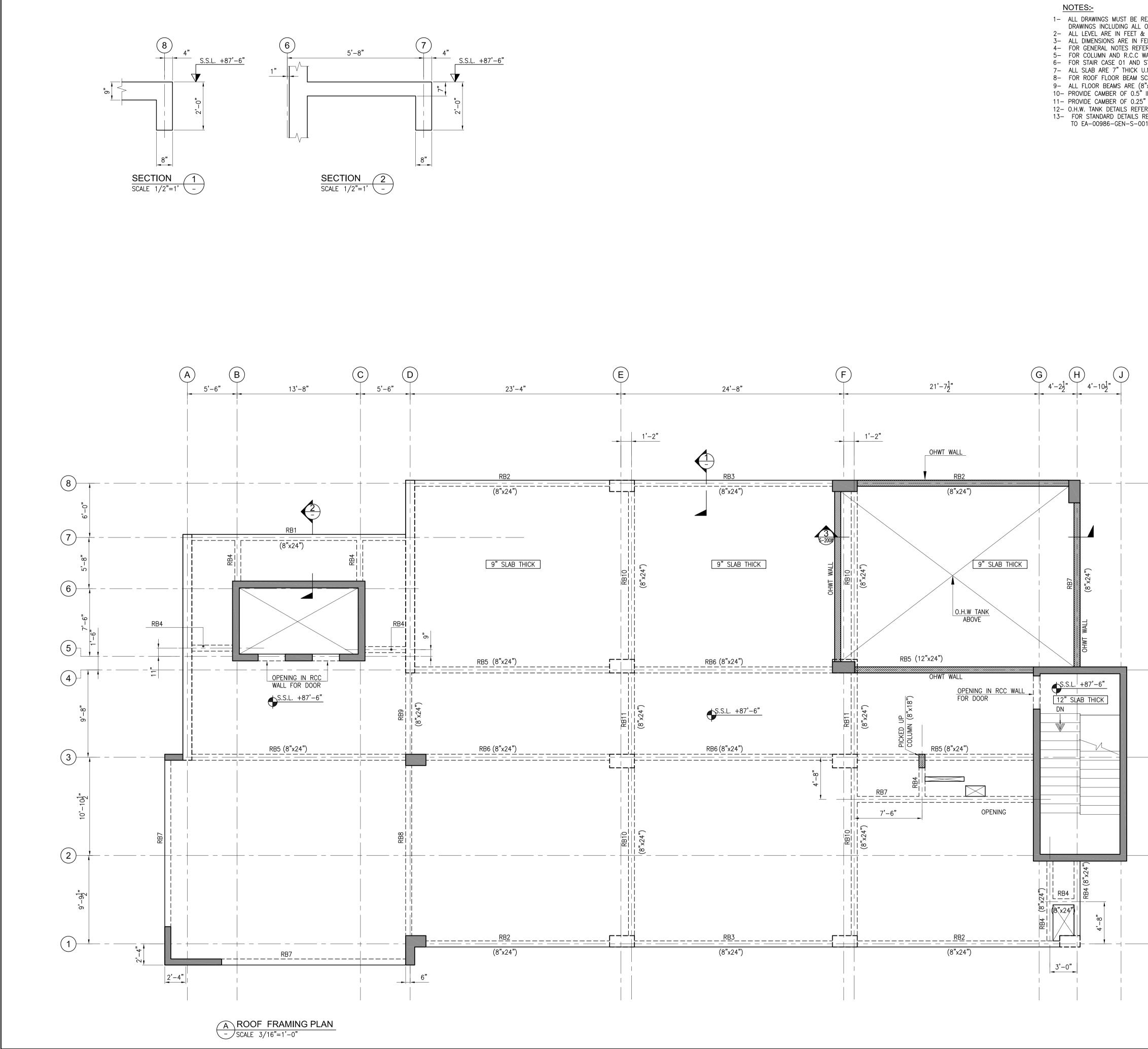
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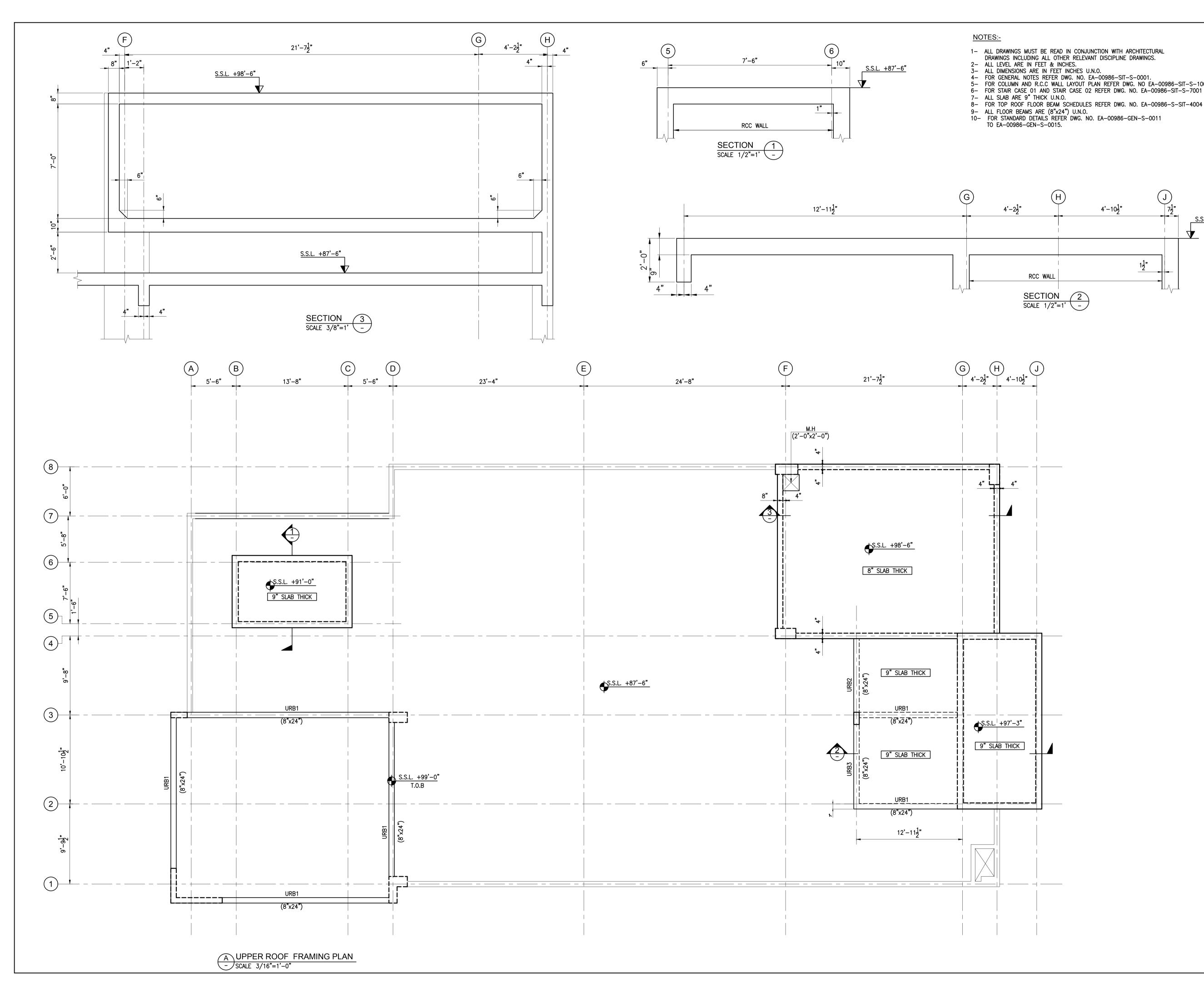
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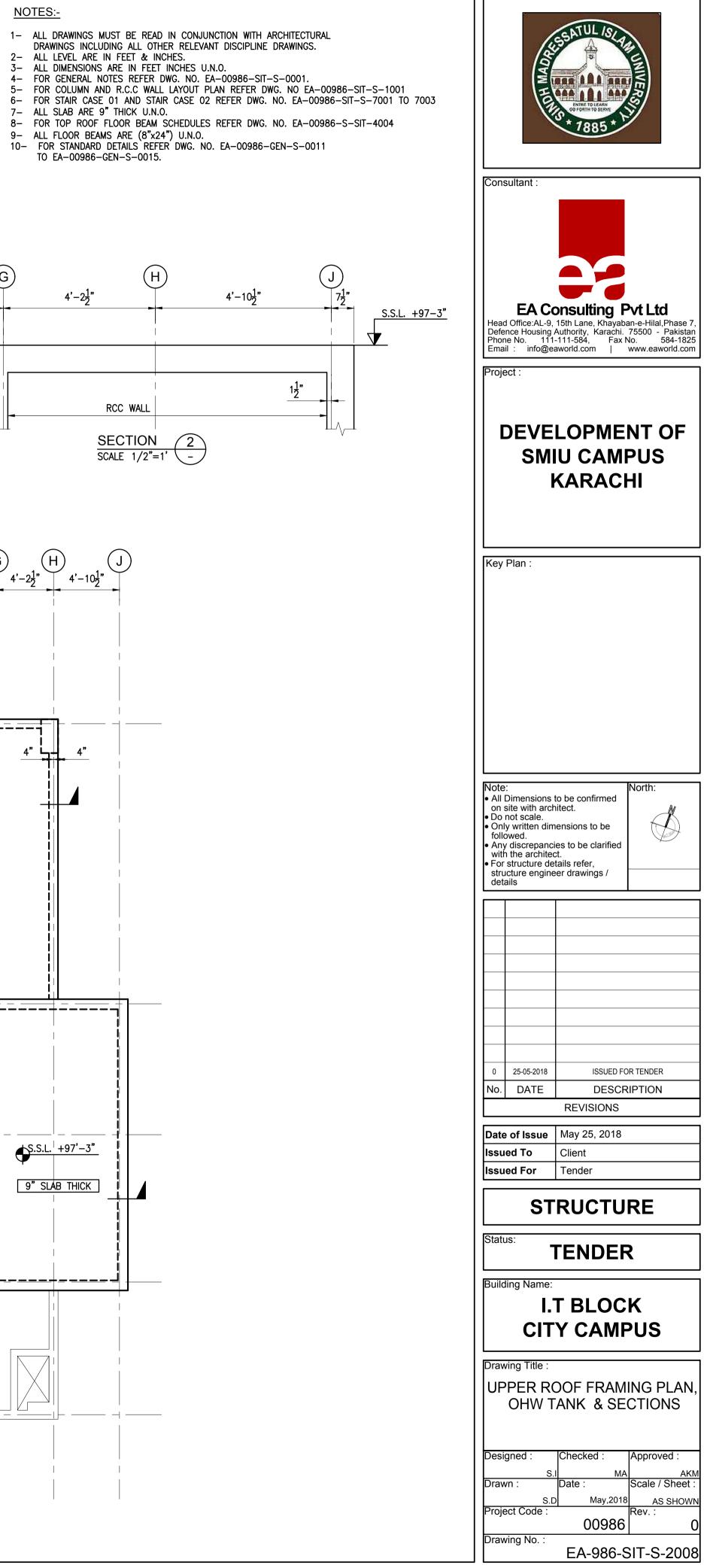
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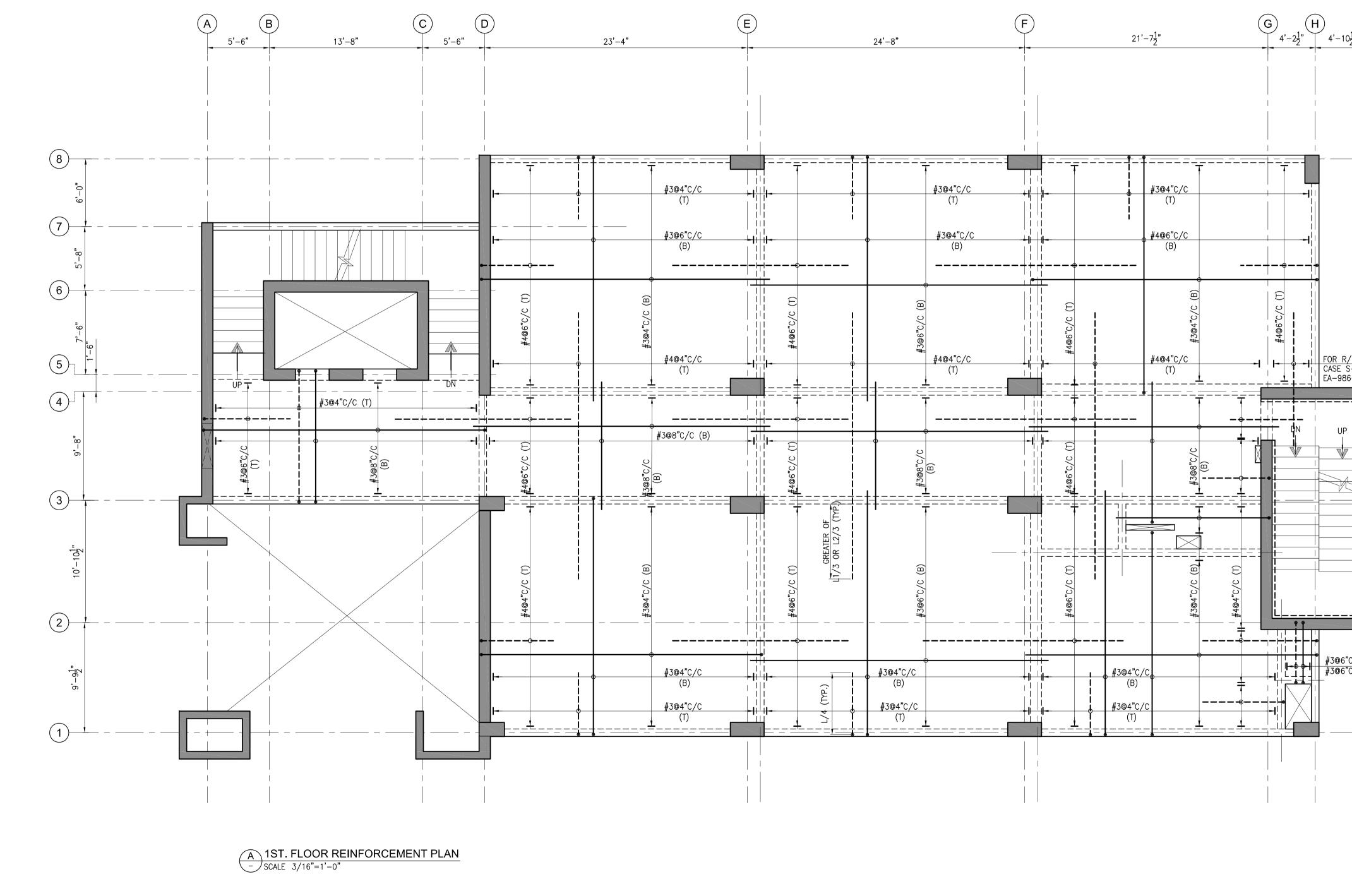
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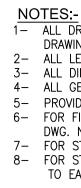
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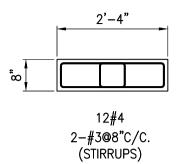


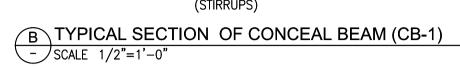


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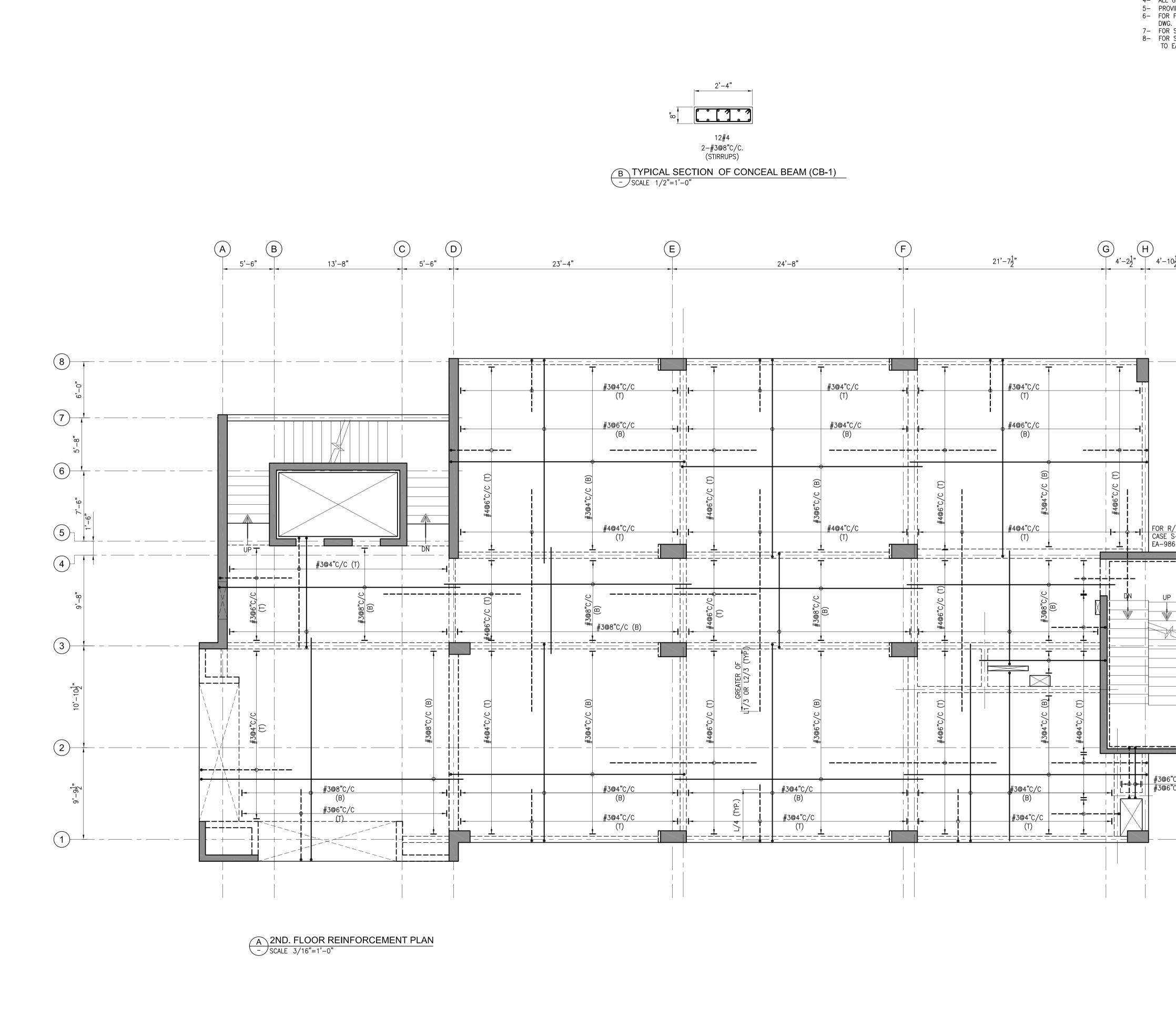


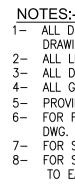


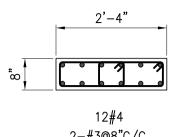


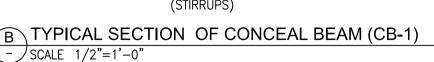
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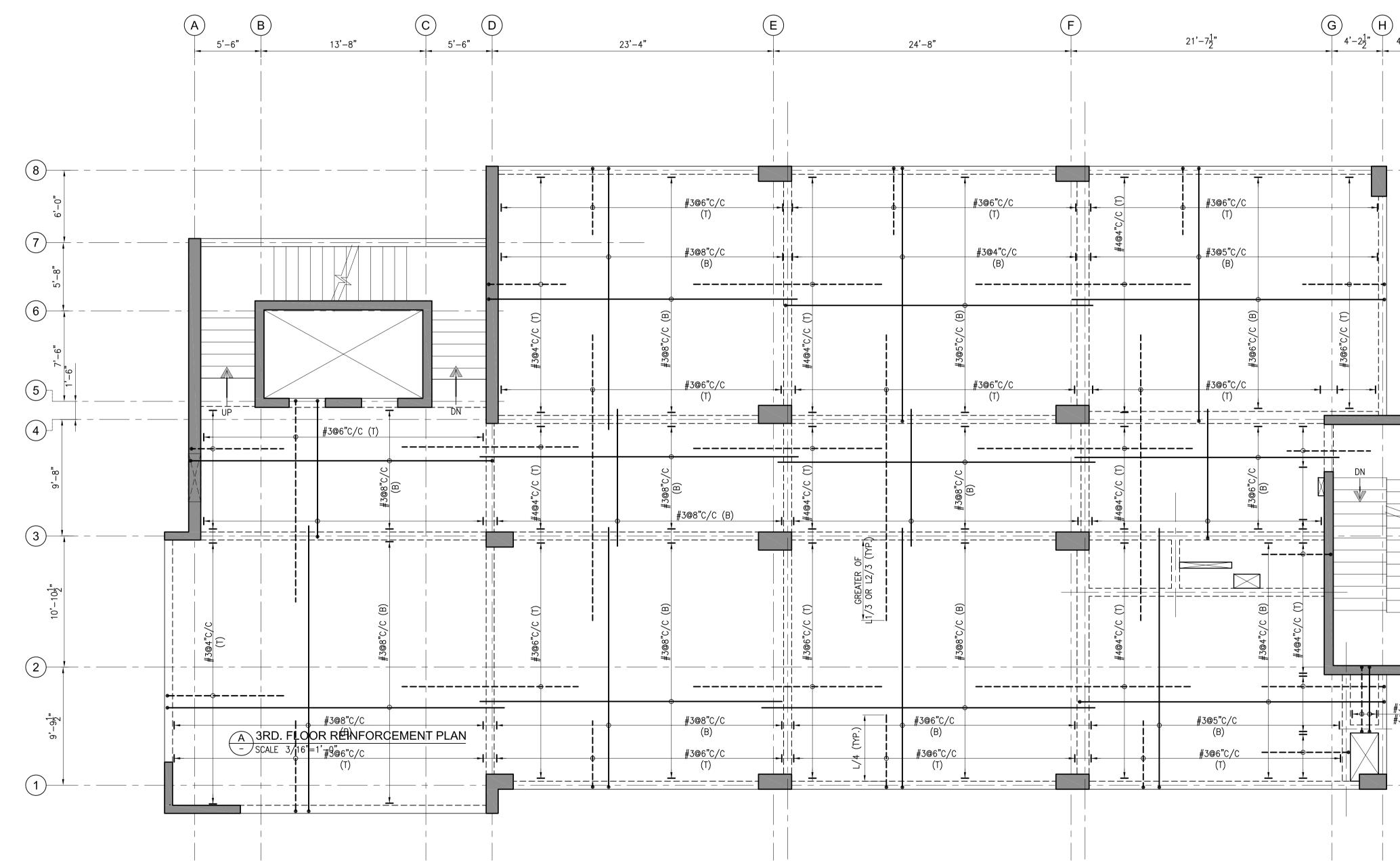


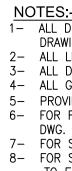


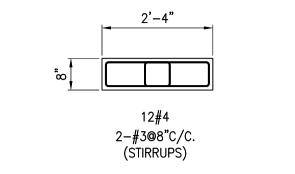
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DEVELOPMENT OF SMIU CAMPUS KARACHI
Key Plan :
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Date of IssueMay 25, 2018Issued ToClientIssued ForTender
STRUCTURE
Status: TENDER
Building Name: I.T BLOCK CITY CAMPUS
Drawing Title : 2ND. FLOOR REINFORCEMENT PLAN
Designed : Checked : Approved : S.I MA AKM Drawn : Date : Scale / Sheet : S.D May,2018 AS SHOWN Project Code : Rev. :

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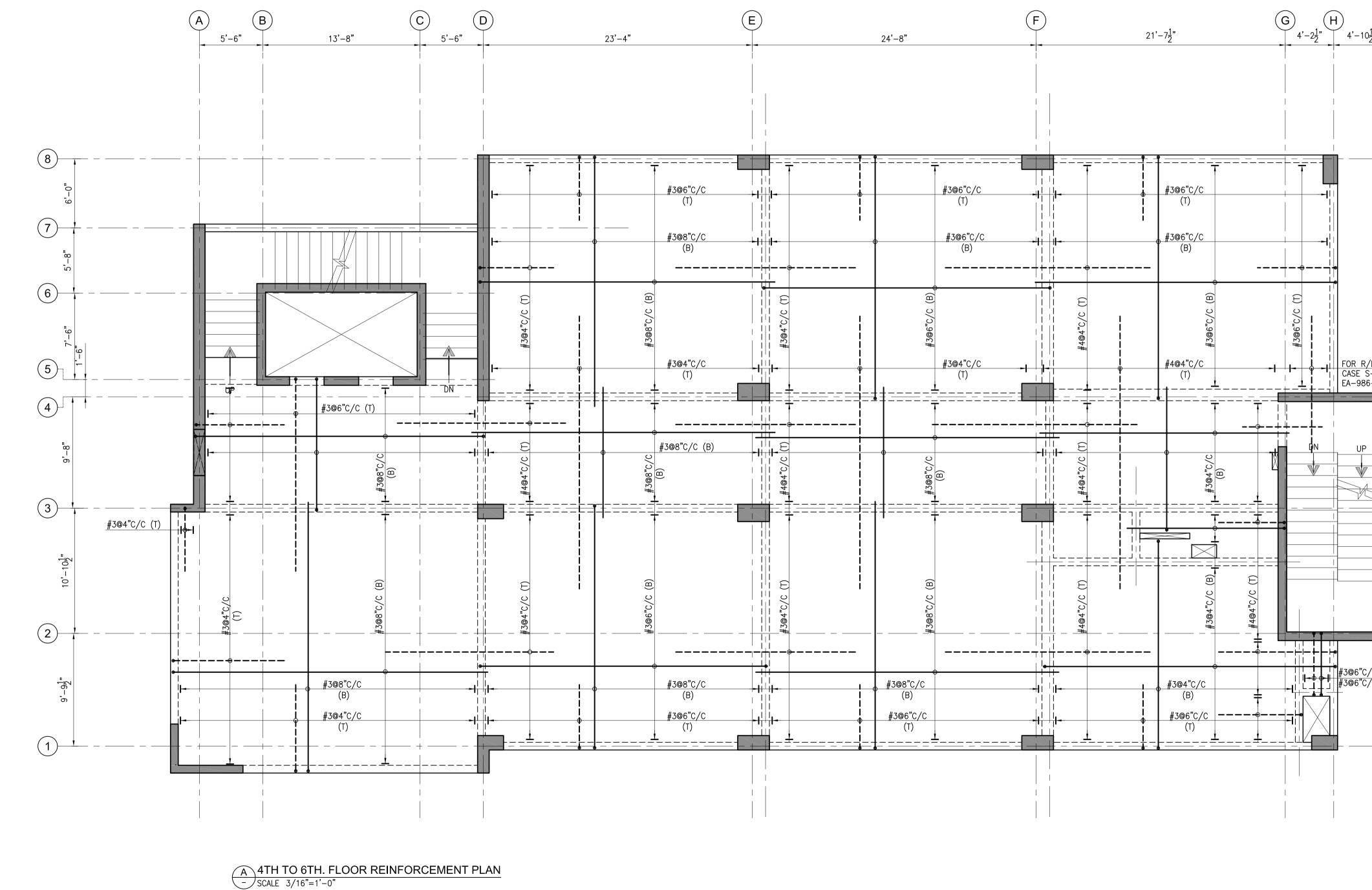


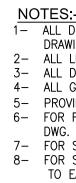


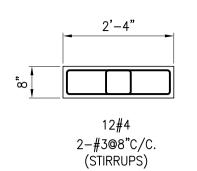
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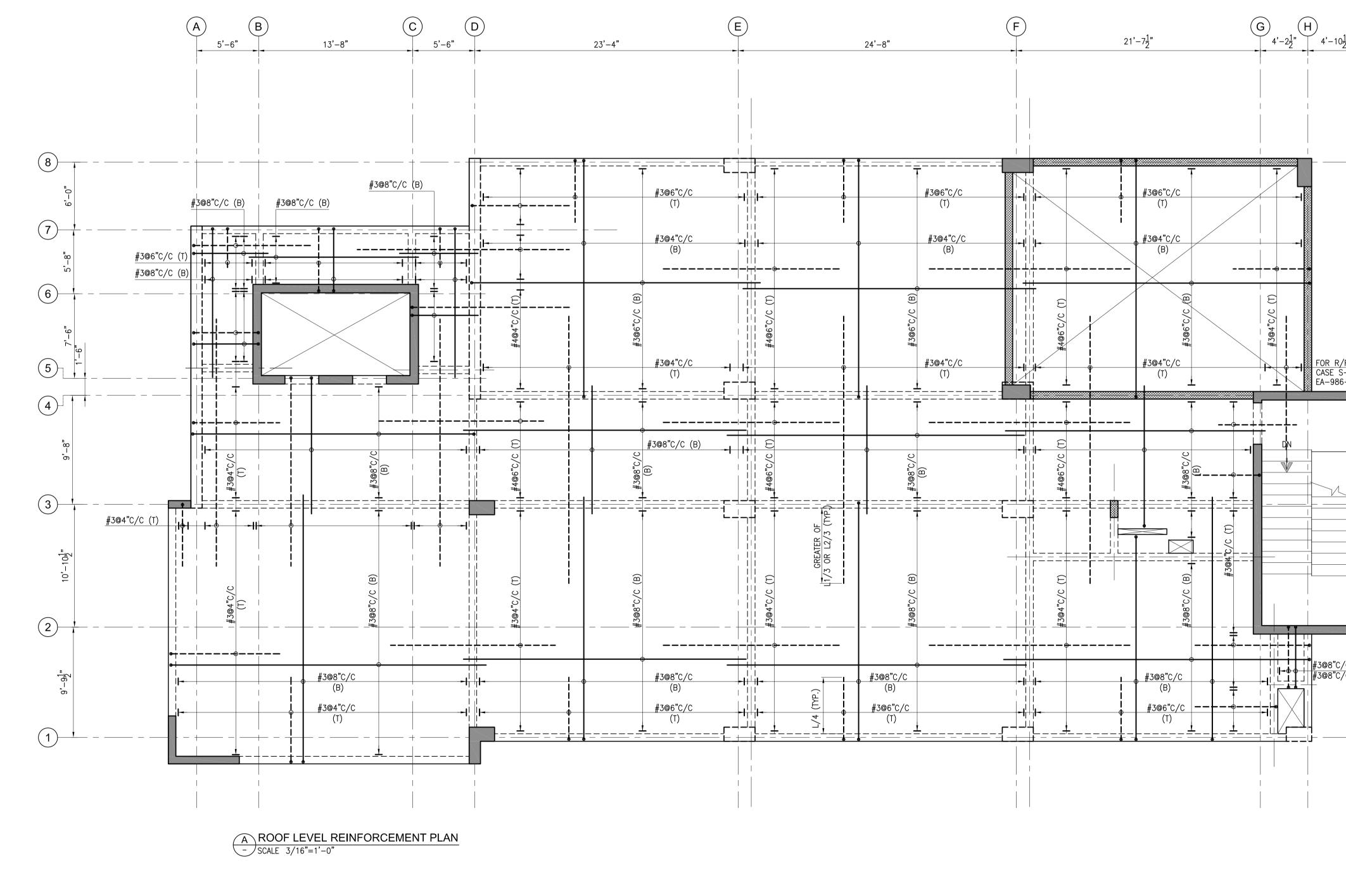


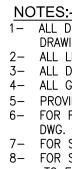




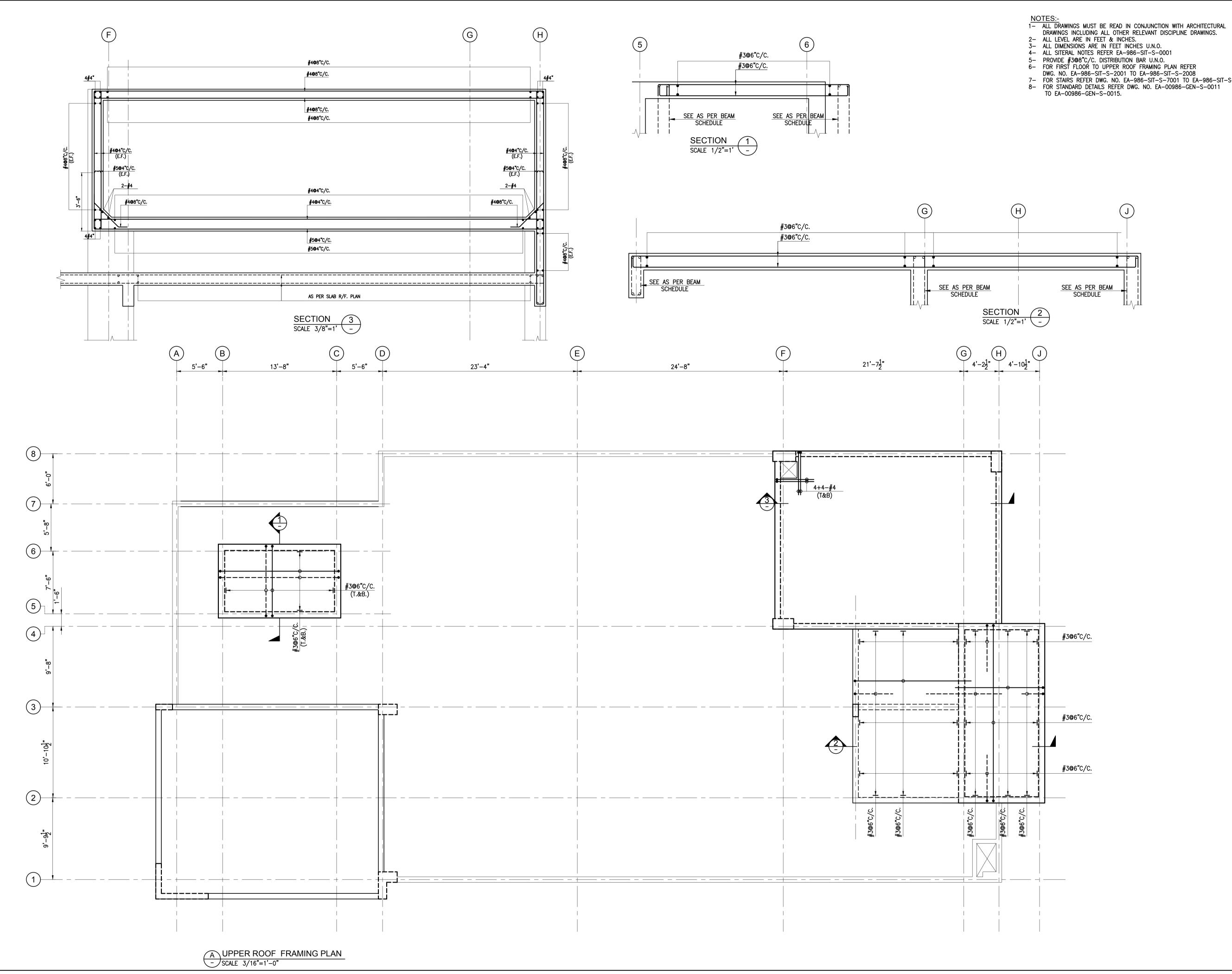
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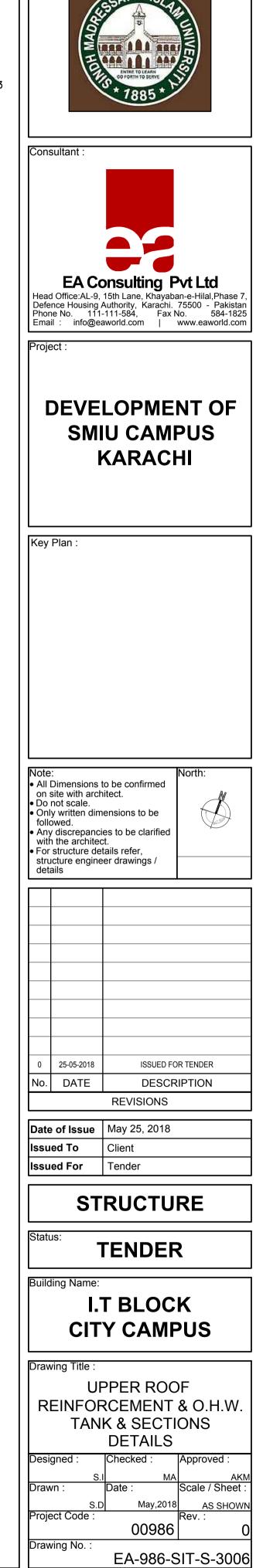




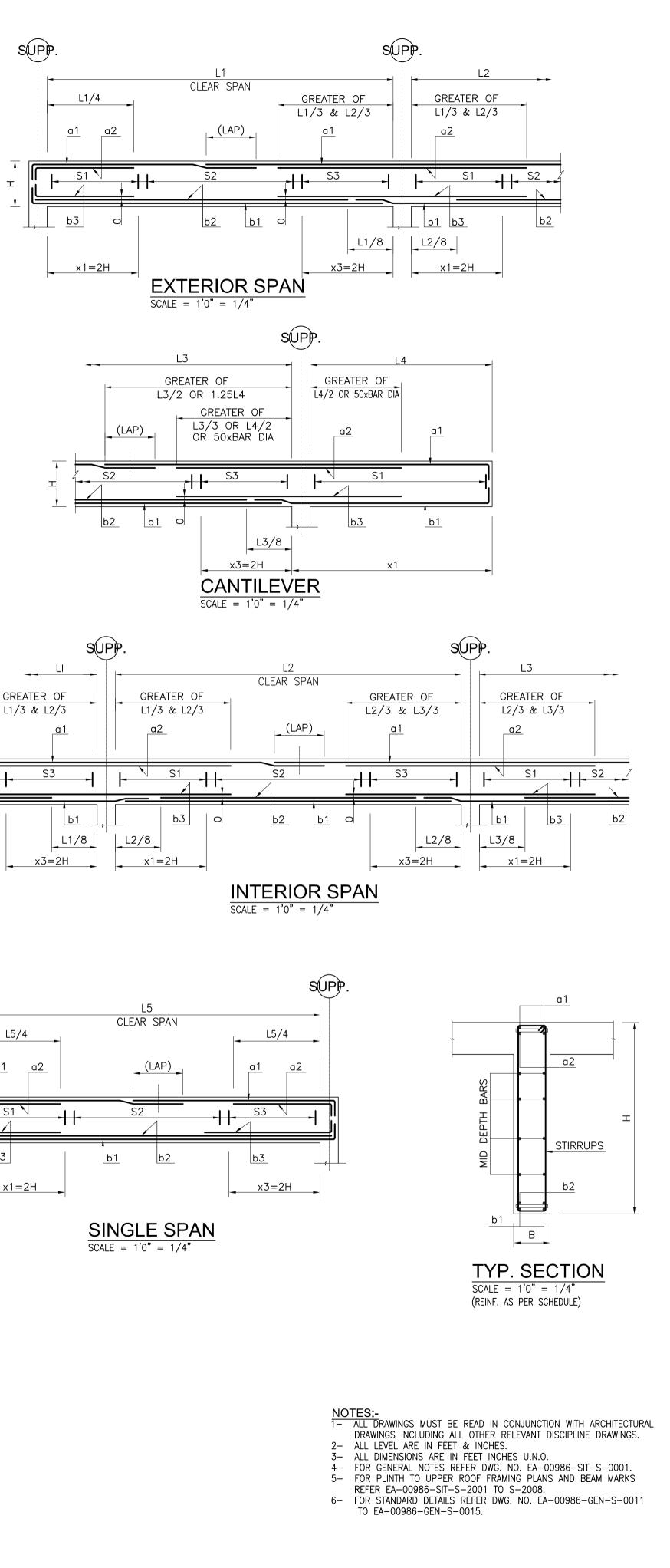
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	EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
	DEVELOPMENT OF SMIU CAMPUS KARACHI
	Key Plan :
<u>R/F DETAILS STAIR</u> E S-01 DWG. NO. 986-SIT-S-7001	Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings / details
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	Date of Issue May 25, 2018 Issued To Client Issued For Tender STRUCTURE
B"C/C (T) B"C/C (B)	Status: TENDER
	Building Name: I.T BLOCK CITY CAMPUS
	Drawing Title : ROOF LEVEL REINFORCEMENT PLAN Designed : Checked : Approved : S.I MA AKM Drawn : Date : Scale / Sheet : S.D May,2018 AS SHOWN Project Code : Rev. : 00986 0 Drawing No. : EA-986-SIT-S-3005

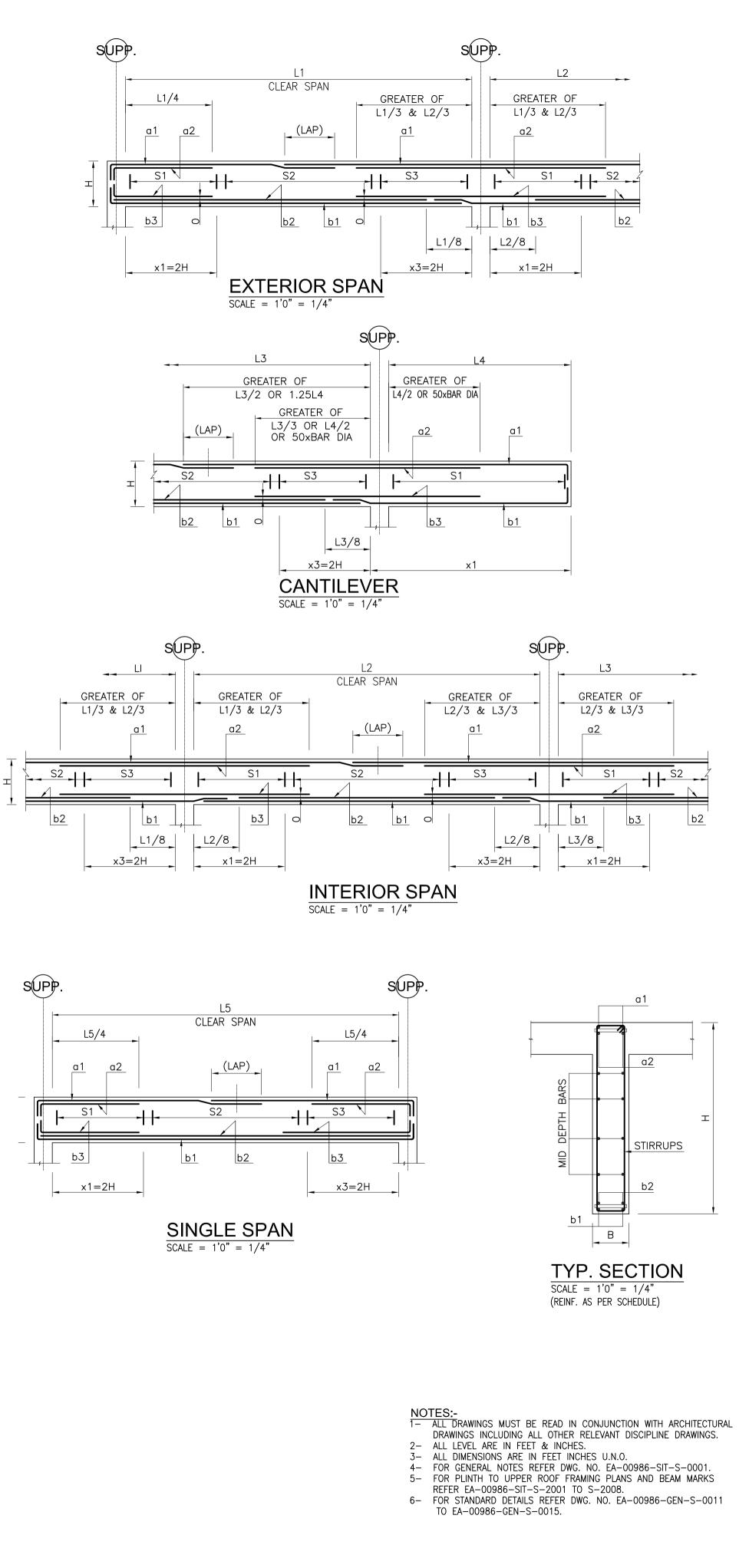


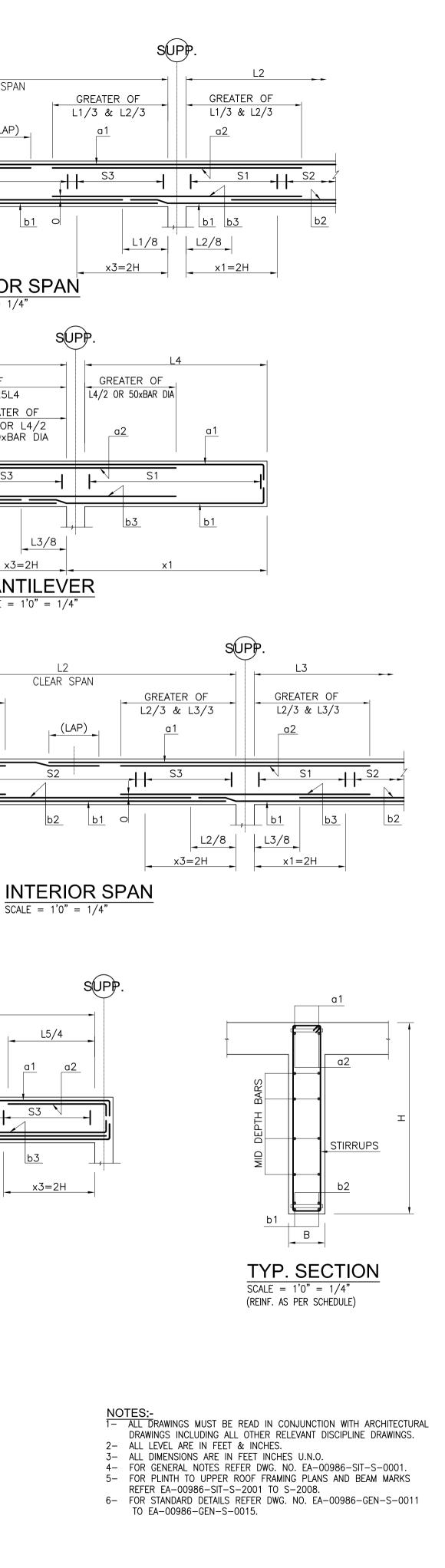
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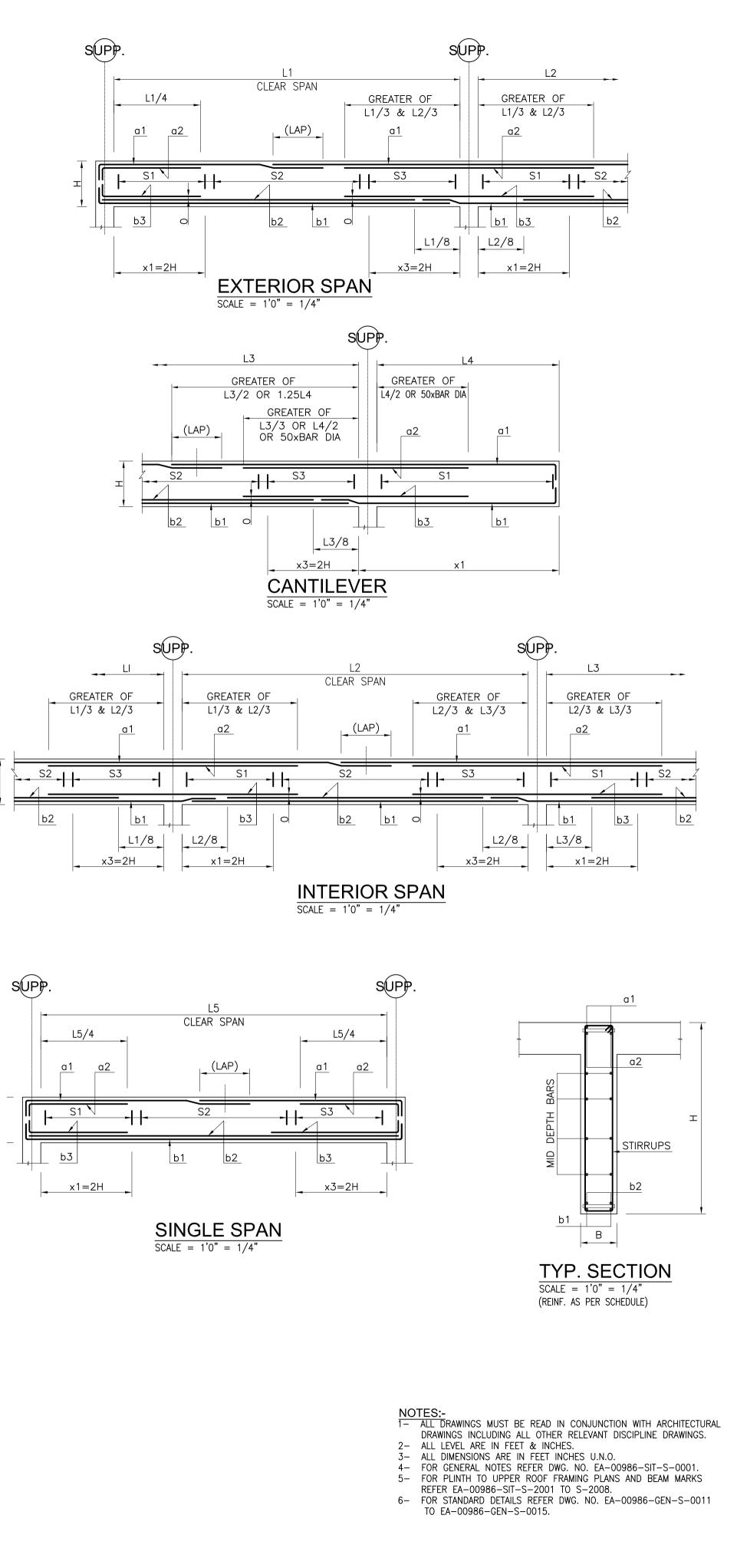


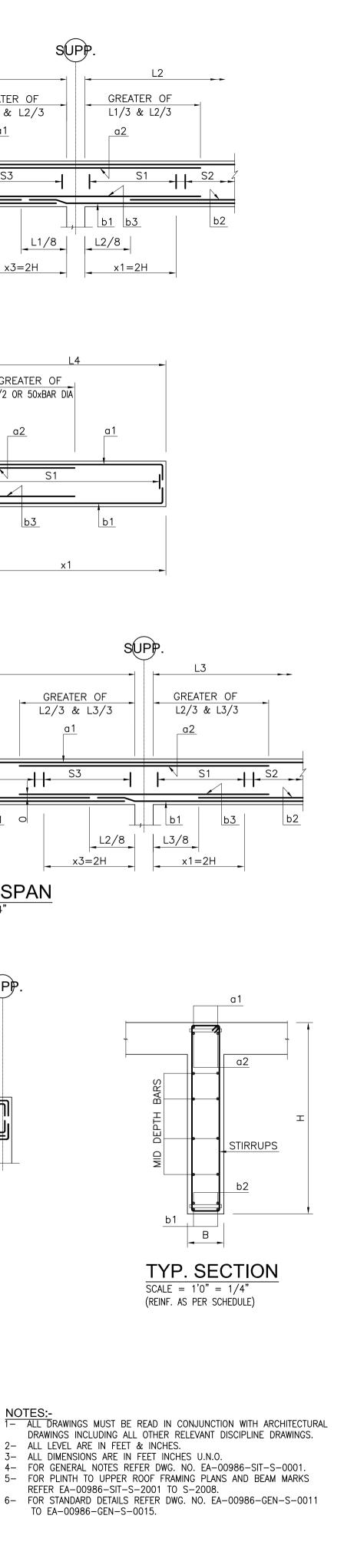
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6	PB-6	8"	30"	2-#6	2-#5	2-#6	2-#5	2-#6	-	-	5"	10"	5"	-	
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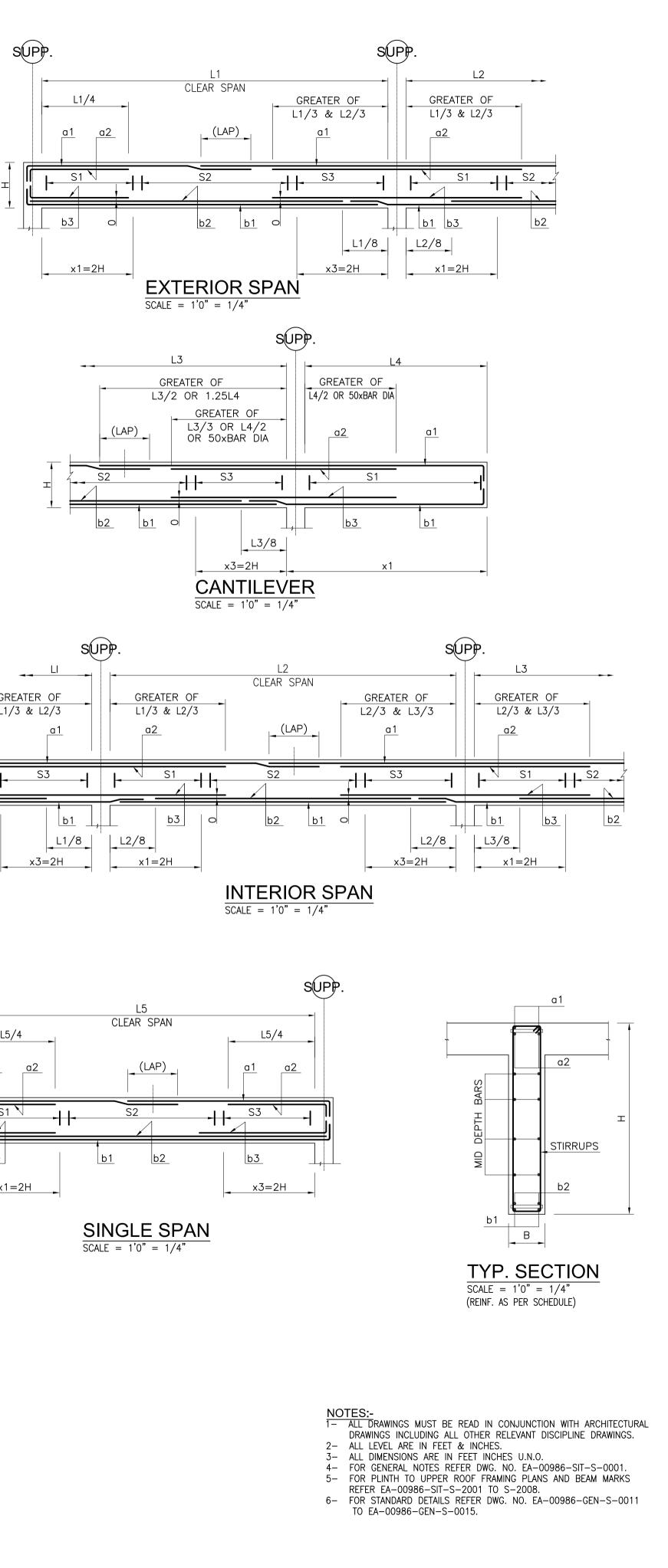


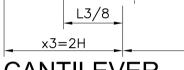


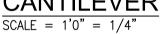


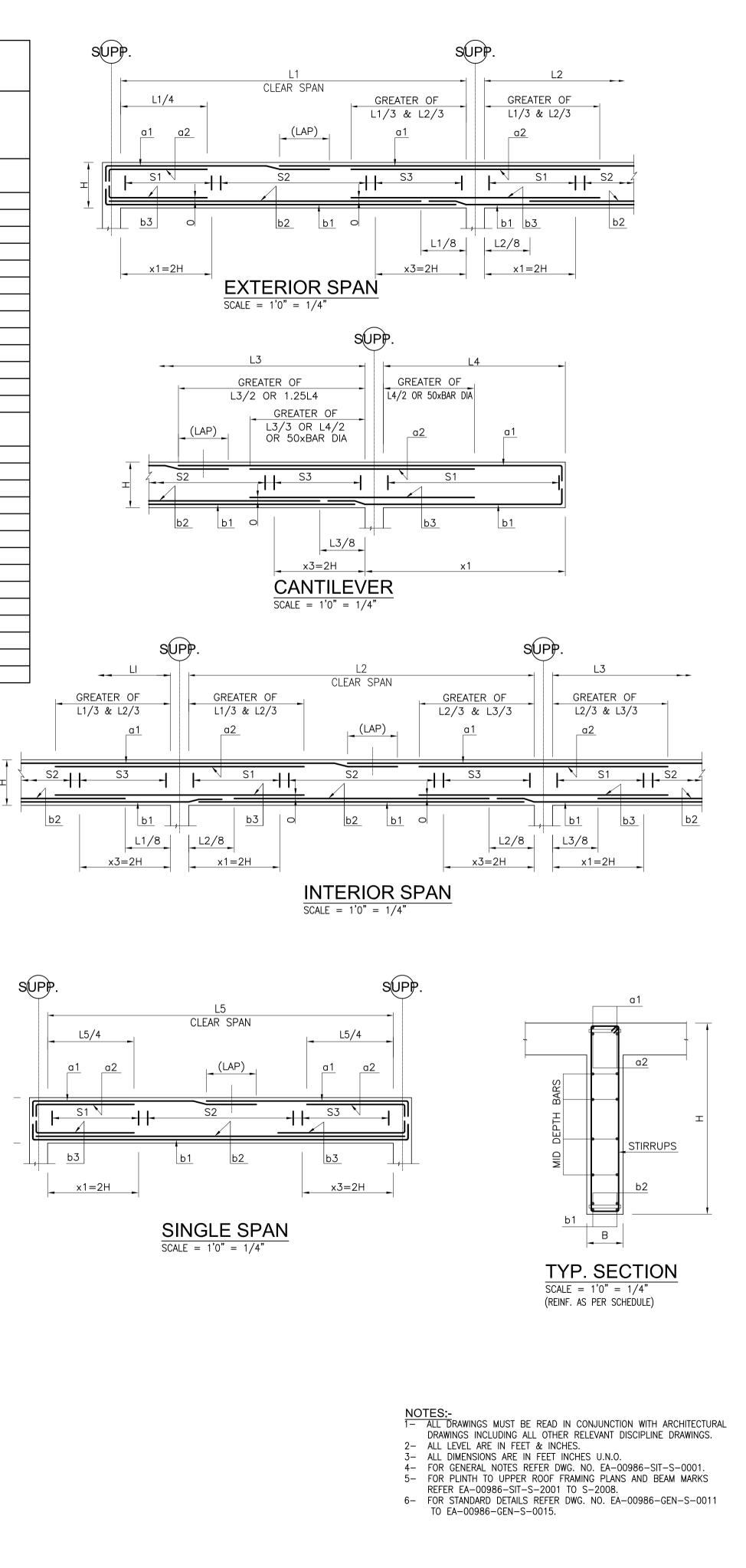
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DEVELOPMENT OF SMIU CAMPUS KARACHI
Key Plan : Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified
Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
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STRUCTURE
Status: TENDER
Building Name: I.T BLOCK CITY CAMPUS Drawing Title : PLINTH BEAM SCHEDULE
& DETAIL Designed : Checked : Approved :
S.I MA AKM Drawn : Date : Scale / Sheet : S.D May,2018 AS SHOWN
Project Code : Rev. : 00986 0

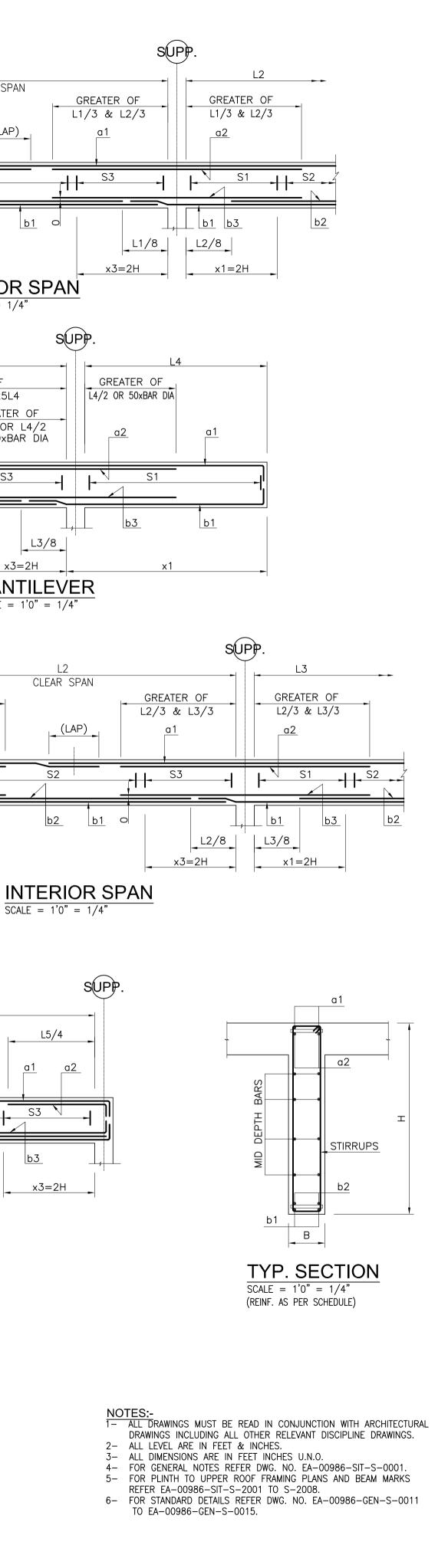
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3	1B-3	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	-	-	4"	8"	4"	-	
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3	2B-2	8"	24"	2 #8	2 #6	2 #8	2 #6	2 # 6	2 #5	_	4"	8"	4"	_	
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5	2B-4	8"	24"	2 #8	2 #8	2 #8	2 # 8	2 # 6	2 #6	2-#4	4"	8"	4"	-	
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7	2B-6	12"	24"	3 # 8	2 #8	3 #8	2 #8	2 #6	2 #6	2-#4	#4 @ 4"	8"	#4 @ 4"	-	
8	2B-7	8"	24"	2 # 5	2 #5	2 #5	2 # 5	2 # 5	-	-	5"	10"	5"	-	
9	2B-8	8"	24"	2 # 5	2 #5	2 #5	2 #5	2 # 5	-	-	4"	8"	4"	-	
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11	2B-10	8"	24"	2 #8	2 #8	2 #8	2 #8	2 # 6	-	2-#4	4"	8"	4"	-	
12	2B-11	12"	24"	2 #8	2 #8	2 #8	2 #8	2 #8	2 #6	2-#4	#4 @ 4"	8"	#4 @ 4"	_	
13	2B-12	8"	24"	2 #6	2 #5	2 #6	2 #5	2 #5	2 #6	-	4"	8"	4"	_	
14	2B-13	51"	18"	13 # 4	-	13 #4	-	13 # 4	-	-	4"	8"	4"	-	5 Legged stiruups

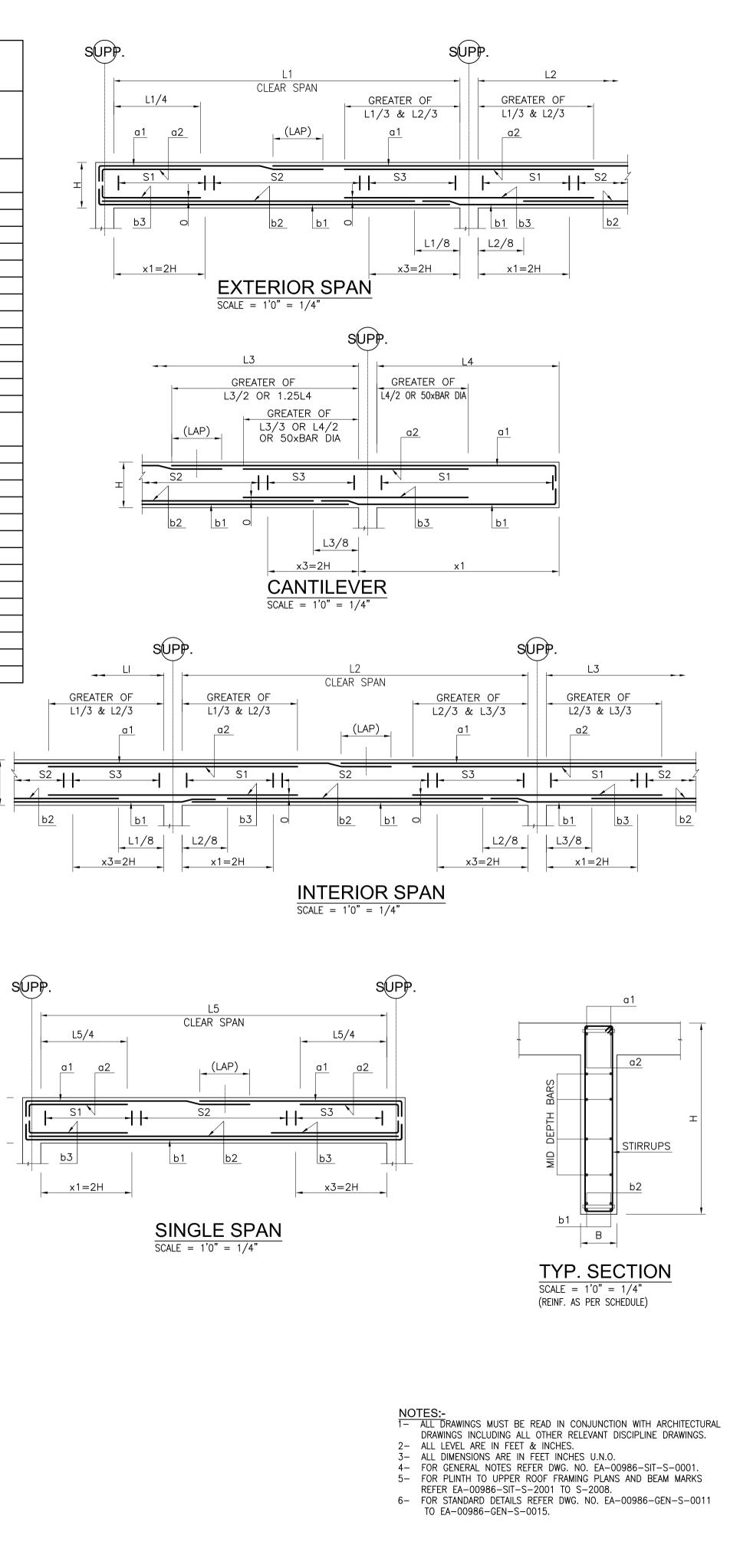


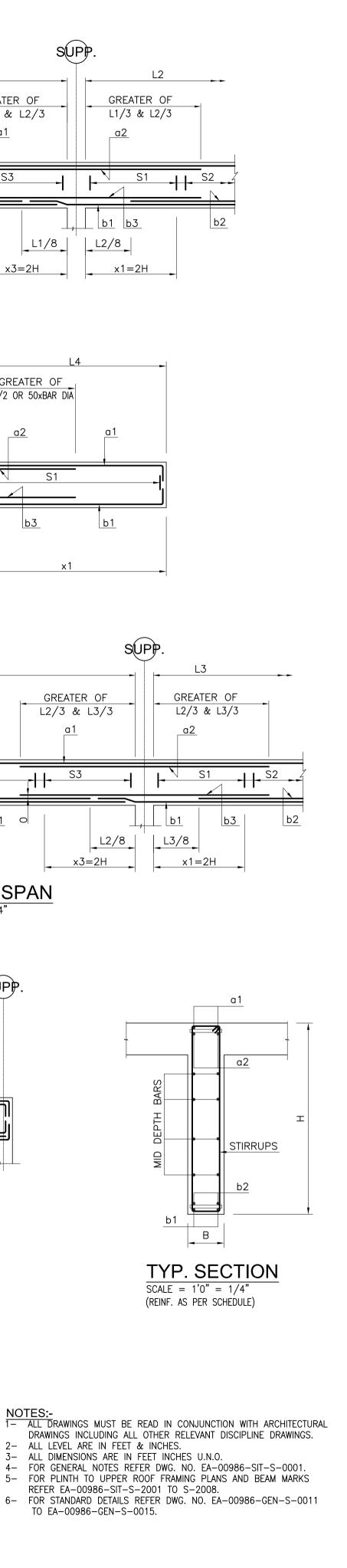






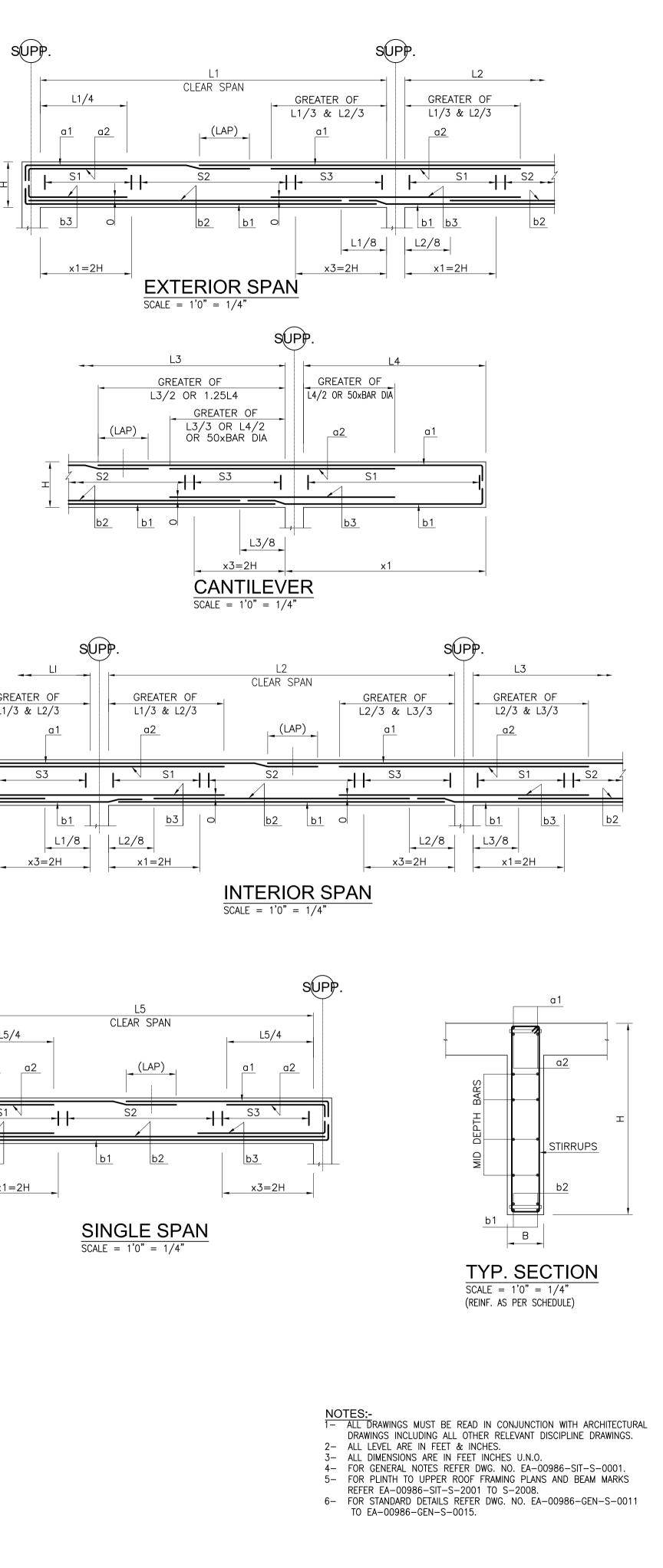


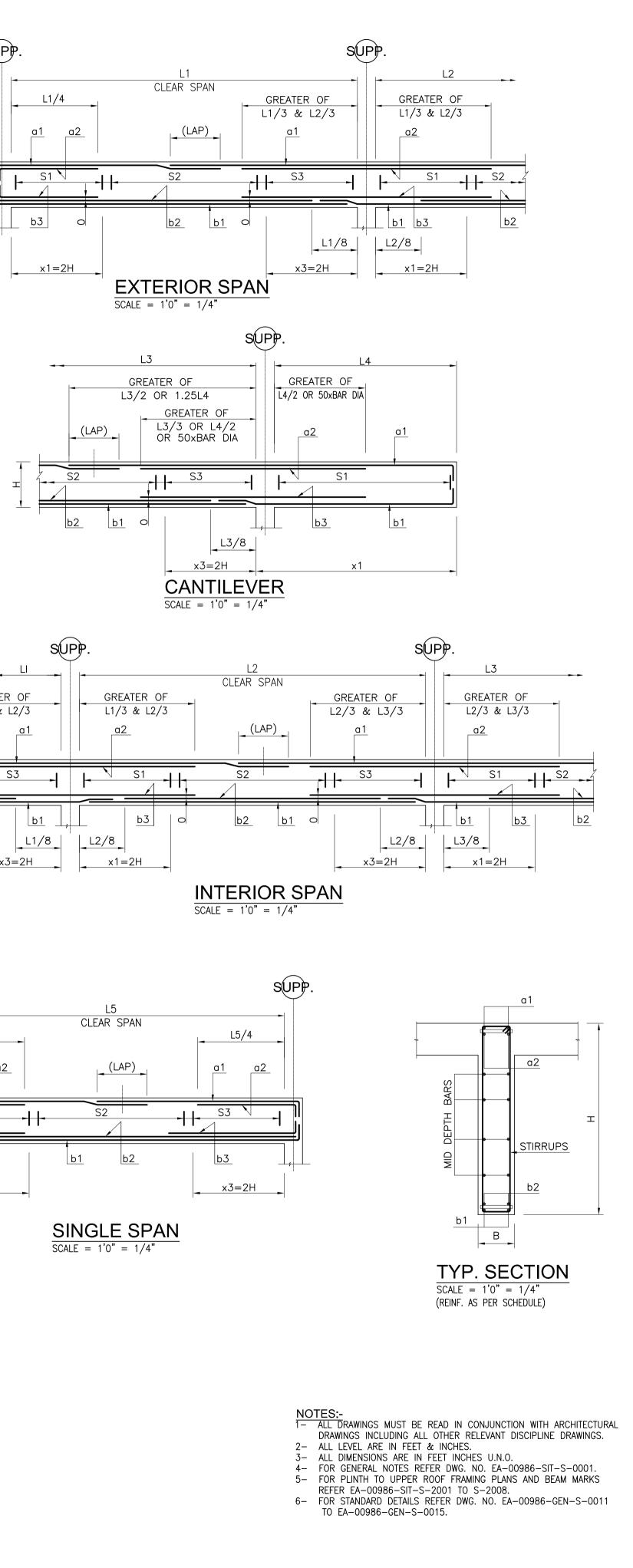


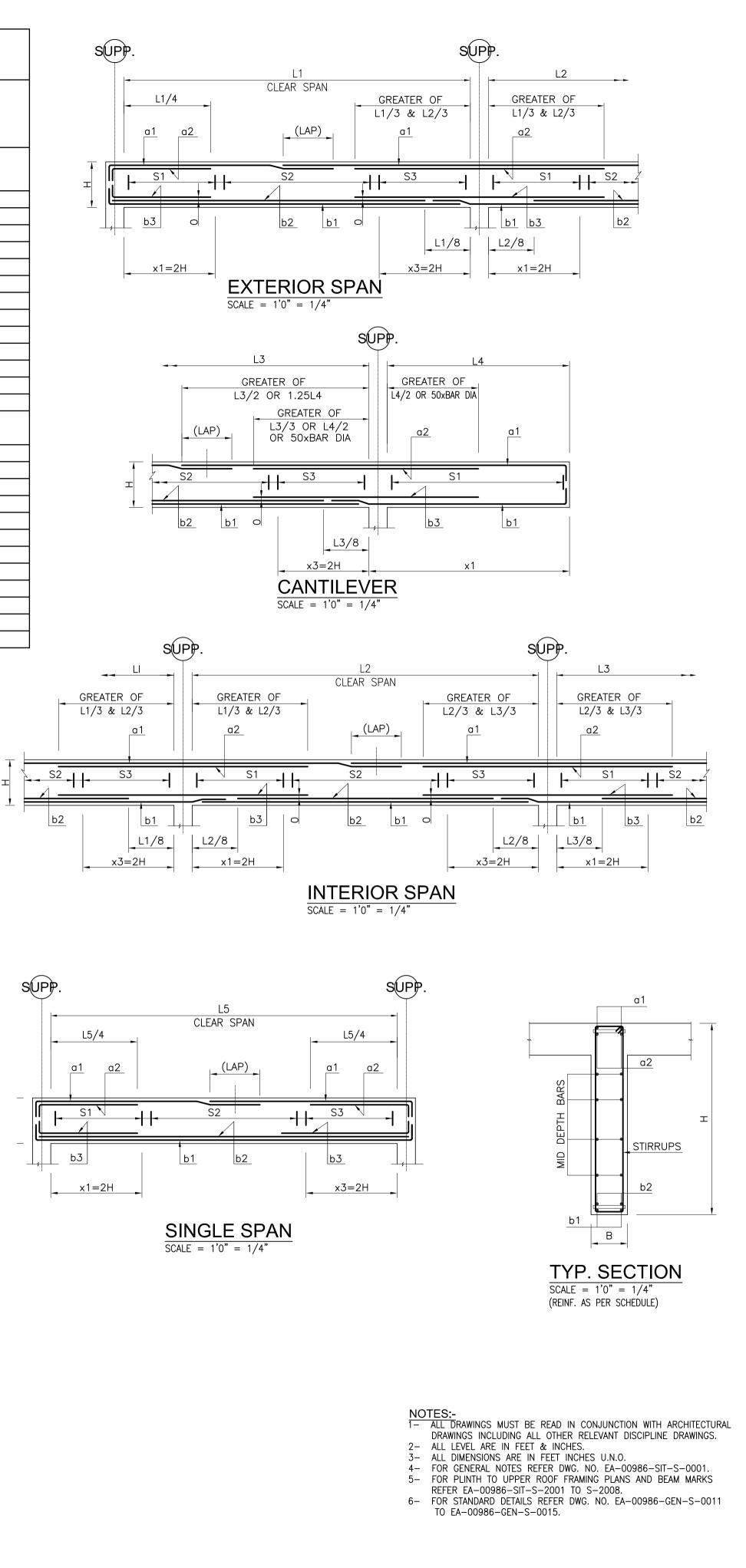


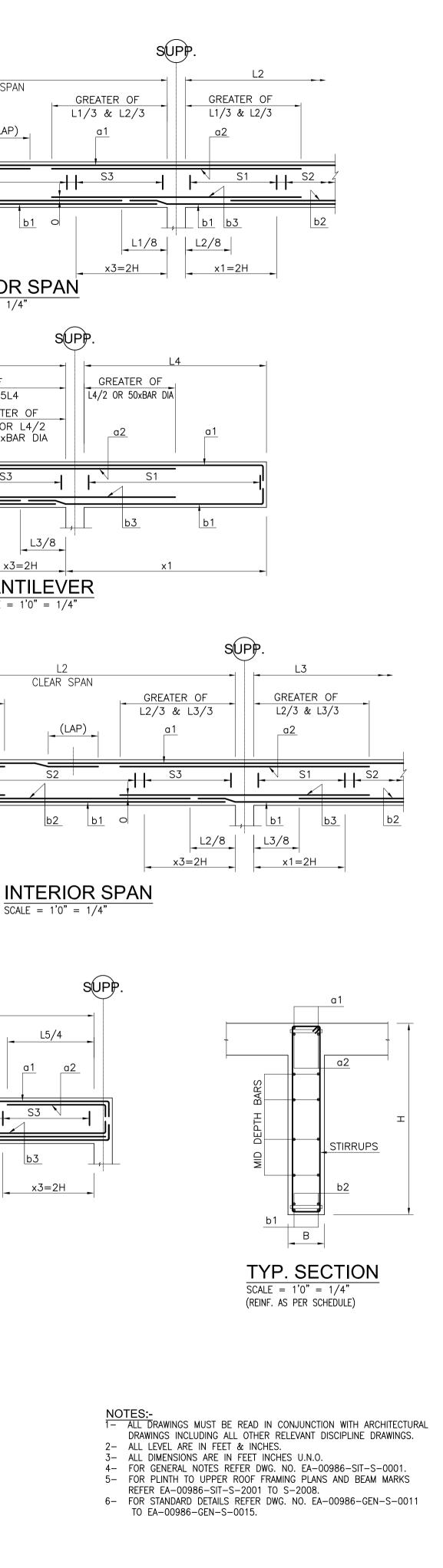
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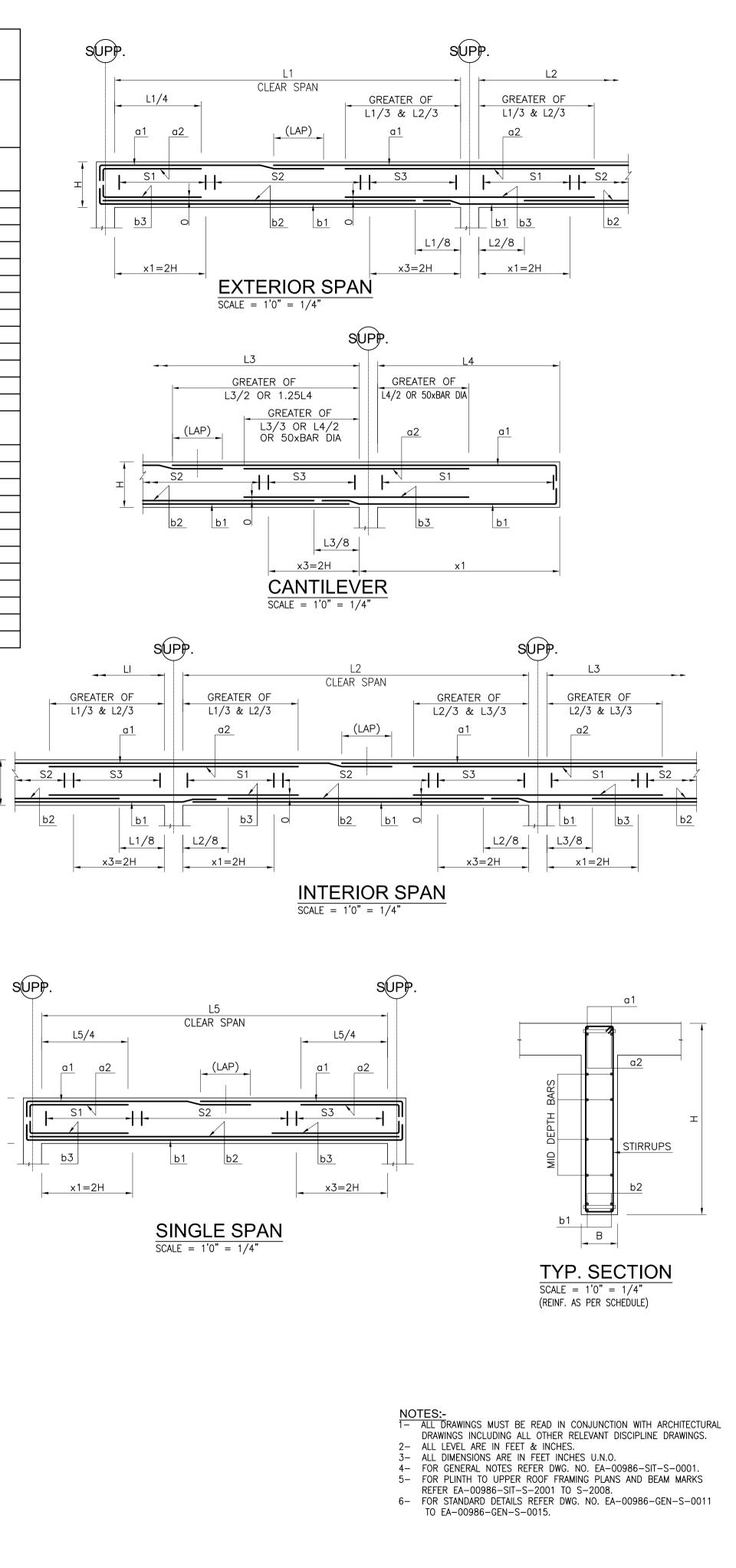
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S.NO	MARK	SI	IZE	"LEF SUP	T/TOP PORT"	"RIGH SUPF	T/TOP PORT"		REINFORCEMENT (SPAN)"			"STIRRUP (ALL #3 UNLESS SPECIFIED)"		DEPTH REINF. (EF)"	REMARKS
		В	Н	a1	a2	a1	a2	b1	b2	b3	s1(x1)	s2	s3(x3)		
							Third	d Floor Be	eams						
1	3B-1	8"	24"	2 # 8	2 #8	2 #8	2 #8	2 #6	2 #6	-	4"	8"	4"	-	
2	3B-2	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2-#5	-	4"	8"	4"	-	
3	3B-3	8"	24"	2 #6	2 -# 5	2 #6	2 - #5	2 # 6	2-#4	-	4"	8"	4"	-	
4	3B-4	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2 #6	2-#4	#4 @ 4"	#4 © 8"	#4 @ 4"	-	
5	3B-5	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2 #6	2-#4	#4 @ 4"	8"	#4 @ 4"	-	
6	3B-6	12"	24"	3 # 8	2 #8	3 #8	2 #8	2 #8	2-#4	2-#4	#4 @ 4"	#4 © 8"	#4 @ 4"	-	
7	3B-7	8"	24"	2 # 5	2 #5	2 #5	2 #5	2 # 5	-	2 #5	5"	10"	5"	-	
8	3B-8	8"	24"	2 #8	2 #6	2 #8	2 #6	2 #6	2 #5	-	4"	8"	4"	-	
9	3B-9	8"	24"	2 # 8	2 # 6	2 #8	2 #6	2 #6	_	-	5"	10"	5"	-	
10	3B-10	8"	24"	2 # 8	2 # 8	2 #8	2 #8	2 #6	2 #6	2-#4	#4 @ 4"	#4@8 "	#4 @ 4"	-	
11	3B-11	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	_	2-#4	4"	8"	4"	-	
12	3B-12	12"	24"	3 # 8	2 #8	3 #8	2 #8	2 #8	2 #6	2-#4	#4 @ 4"	# 4@8"	#4 @ 4"	-	
						Fou	Irth Floor	To Sixth	Floor Bea	ams					
1	TB-1	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2 #6	-	4"	8"	4"	-	
2	TB-2	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2-#5	-	4"	8"	4"	-	
3	TB-3	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2 #6	2-#4	4"	4"	4"	-	
4	TB-4	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2-#6	2-#4	4"	8"	4"	-	
5	TB-5	12"	24"	3 # 8	2 #8	3 #8	2 #8	2 #6	2-#5	2-#4	4"	8"	4"	-	
6	TB-6	8"	24"	2 #5	2 #5	2 #5	2 #5	2 #6	_	2-#4	4"	8"	4"	-	
7	TB-7	8"	24"	2 #6	2 #5	2 #6	2 #5	2 #6	2-#5	-	4"	8"	4"	-	
8	TB-8	8"	24"	2 #8	2 #6	2 #8	2 #6	2 #6	2 #4	2 #4	4"	8"	4"	-	
9	TB-9	8"	24"	2 #8	2 #6	2 #8	2 #6	2 #6	_	2 #4	4"	4"	4"	-	
10	TB-10	8"	24"	2 #8	2 # 8	2 #8	2 #8	2 # 6	2-#4	2-#4	4"	8"	4"	-	
11	TB-11	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	_	2-#4	4"	8"	4"	-	
12	TB-12	12"	24"	2 #8	2 #8	2 #8	2 #8	2 #8	2-#5	2-#4	#4 @ 4"	#4 @ 8"	#4 @ 4"	-	

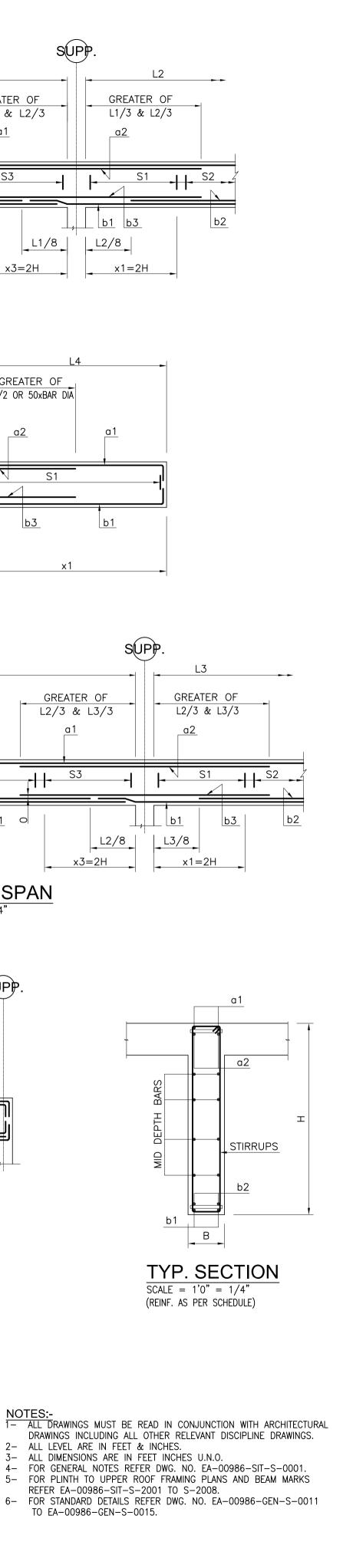






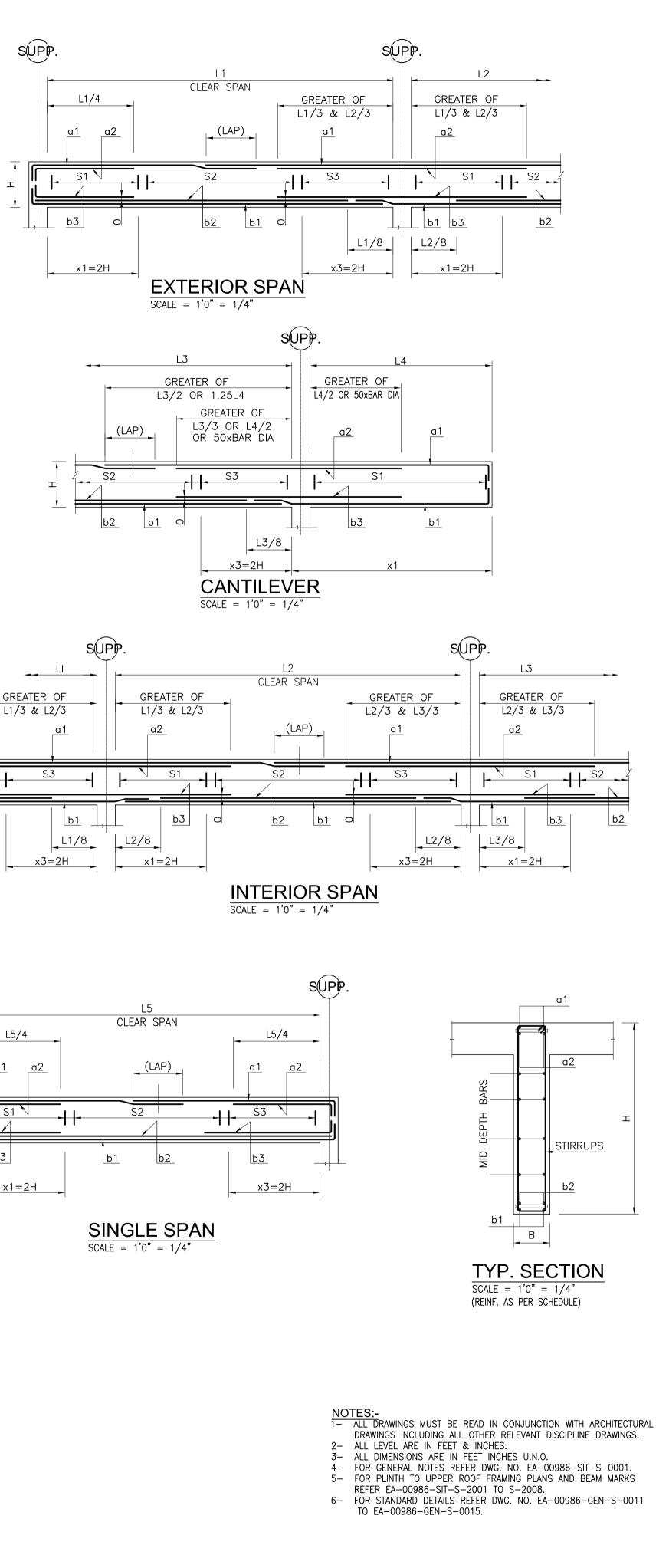


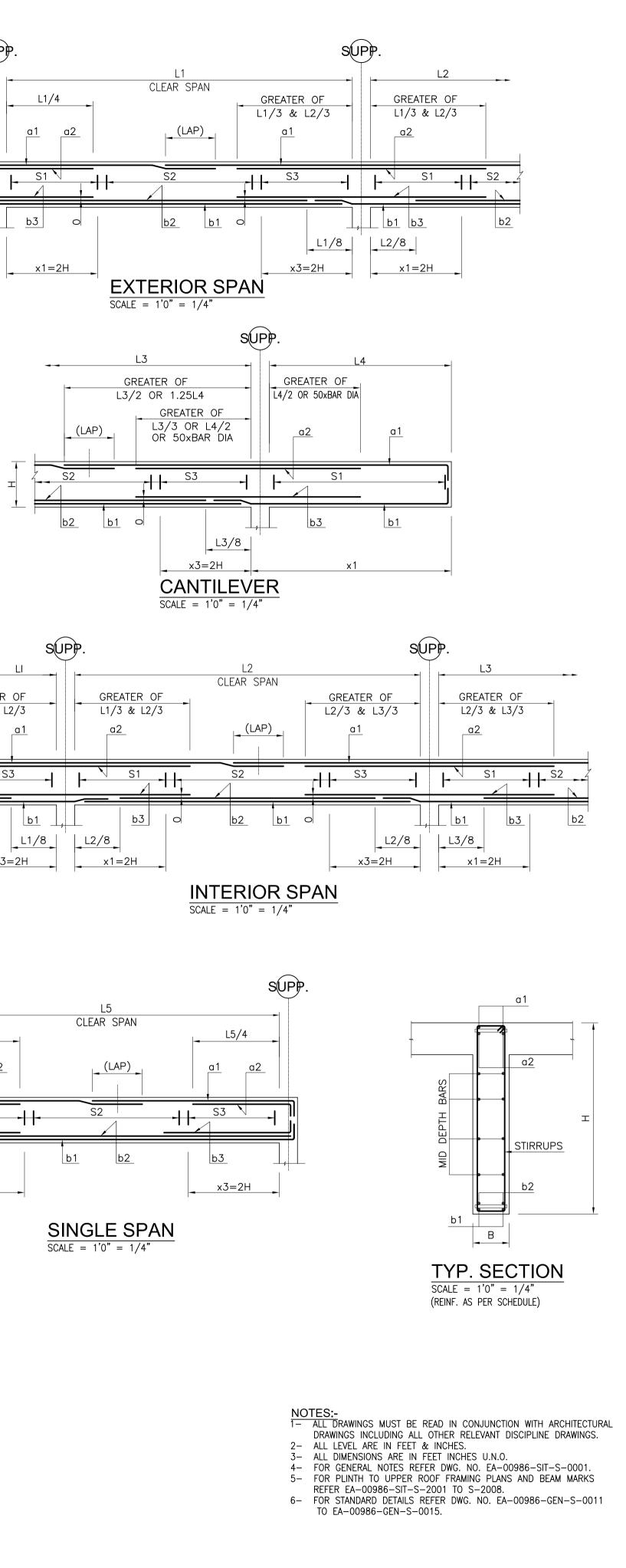


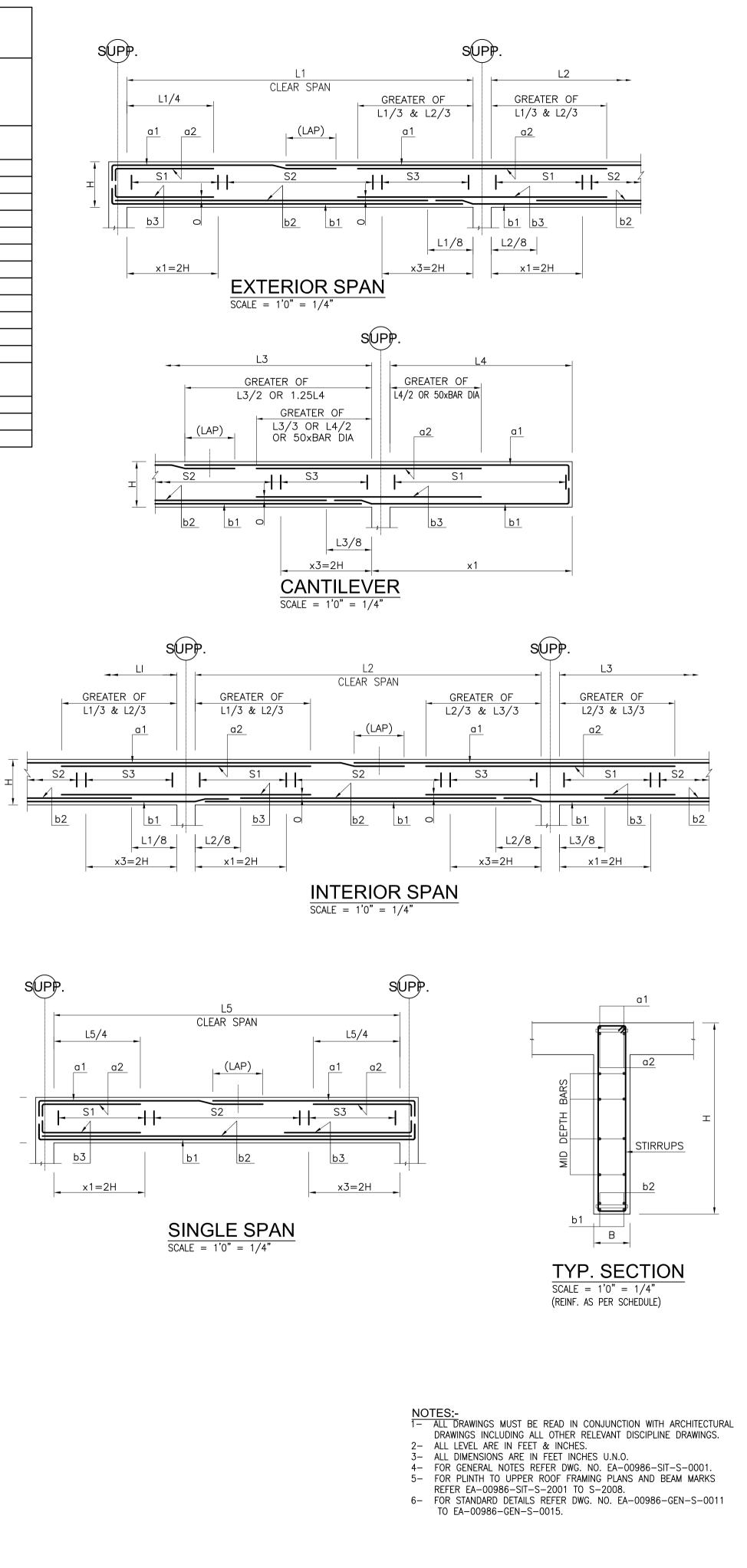


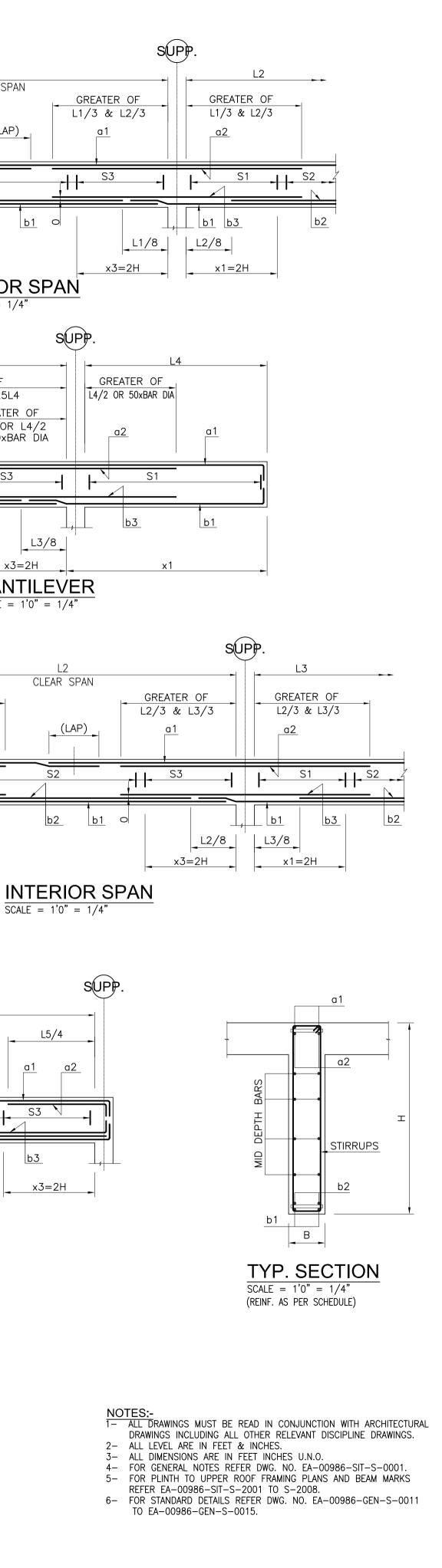
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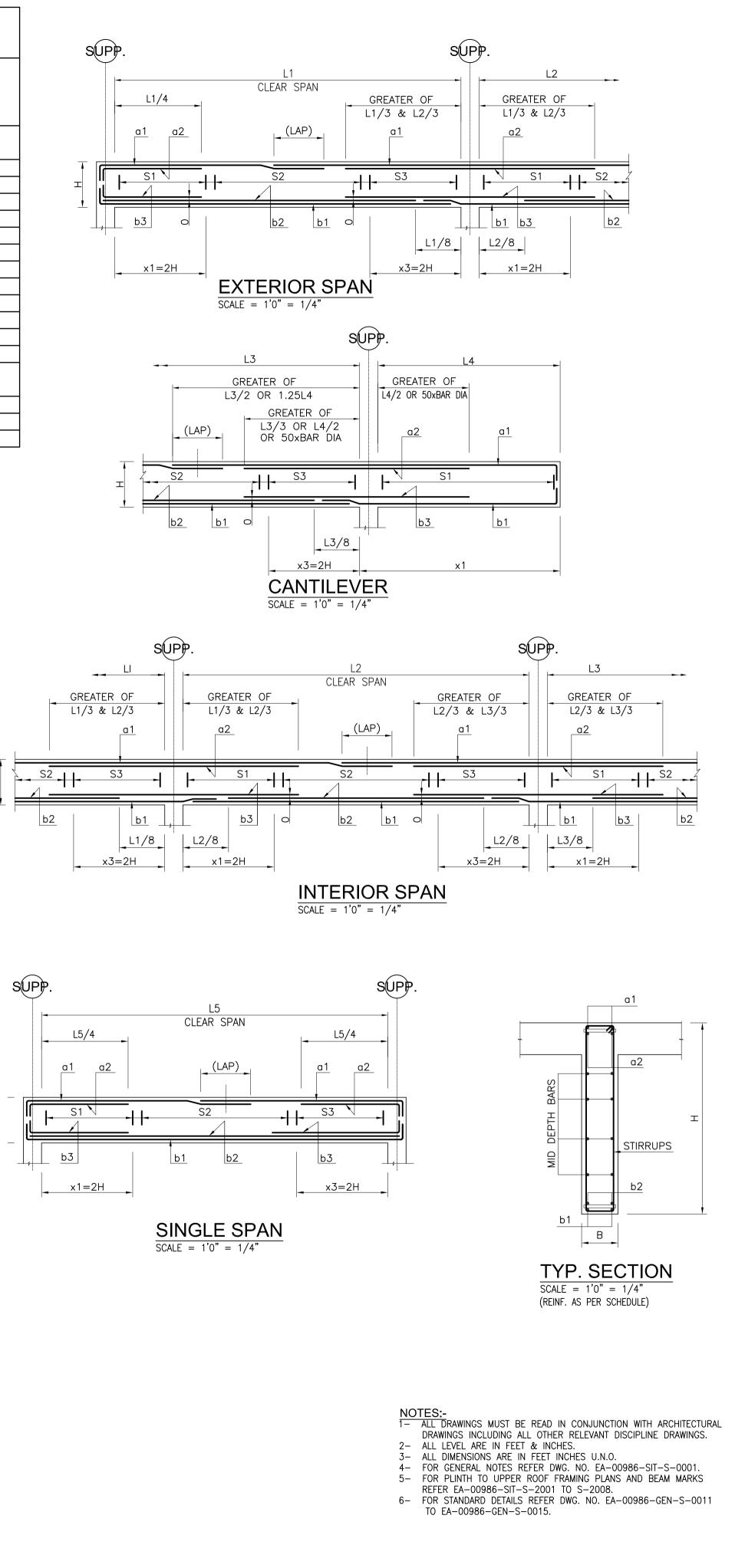
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S.NO MARK		SIZE		"LEFT/TOP SUPPORT"		"Right/top Support"		"BOTTOM REINFORCEMENT (SPAN)"			(ALL #3 UNLESS SPECIFIED)"			"MID DEPTH REINF. (EF)"	REMARKS
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							Root	f Floor Be	eams						
1	RB-1	8"	24"	2 #6	2 # 5	2 #6	2 # 5	2 # 5	-	_	5"	10"	5"	-	
2	RB-2	8"	24"	2 #8	2 # 6	2 #8	2 #6	2 #6	2 #4	-	4"	8"	4"	-	
3	RB-3	8"	24"	2 #8	2 #6	2 #8	2 #6	2 #6	2 #4	-	4"	8"	4"	-	
4	RB-4	8"	24"	2 #5	2 #5	2 #5	2 #5	2 #5	-	2 # 5	5"	10"	5"	-	
5	RB-5	8"	24"	2 #8	2#6 +2 #6	2 #8	2#6 +2 #6	2 #6	2 #6	2 #5	4"	4"	4"	-	
6	RB-6	8"	24"	2 #8	2#6 +2 #6	2 #8	2#6 +2 #6	2 #6	2 #4	2 #5	4"	8"	4"	-	
7	RB-7	8"	24"	2 #5	2 #6	2 #5	2 #6	2 #6	⅔	-	5"	10"	5"	-	
8	RB-8	8"	24"	2 #6	2 #8	2 #6	2 #8	2 #6	2 #5	-	5"	10"	5"	-	
9	RB-9	8"	24"	2 #6	2 #8	2 #6	2 #8	2 #6	-	-	5"	10"	5"	-	
10	RB-10	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	2 #5	-	4"	4"	4"	-	
11	RB-11	8"	24"	2 #8	2 #8	2 #8	2 #8	2 #6	-	-	6"	10"	6"	-	
							Upper F	Roof Flooi	Beams						
1	URB-1	8"	24"	2 #5	-	2 #5	_	2 #5	-	-	5"	10"	5"	-	
2	UBR-2	8"	24"	2 #5	2 # 5	2 #5	-	2 #6	-	-	5"	10"	5"	-	
3	UBR-3	8"	24"	2 #5	2 #5	2 #5	-	2 #6	-	-	5"	-	5"	-	

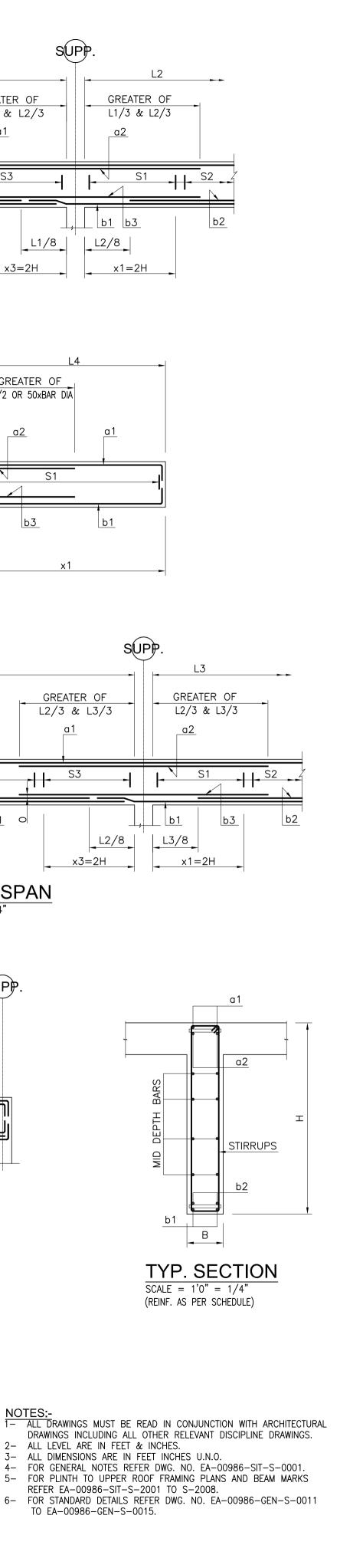




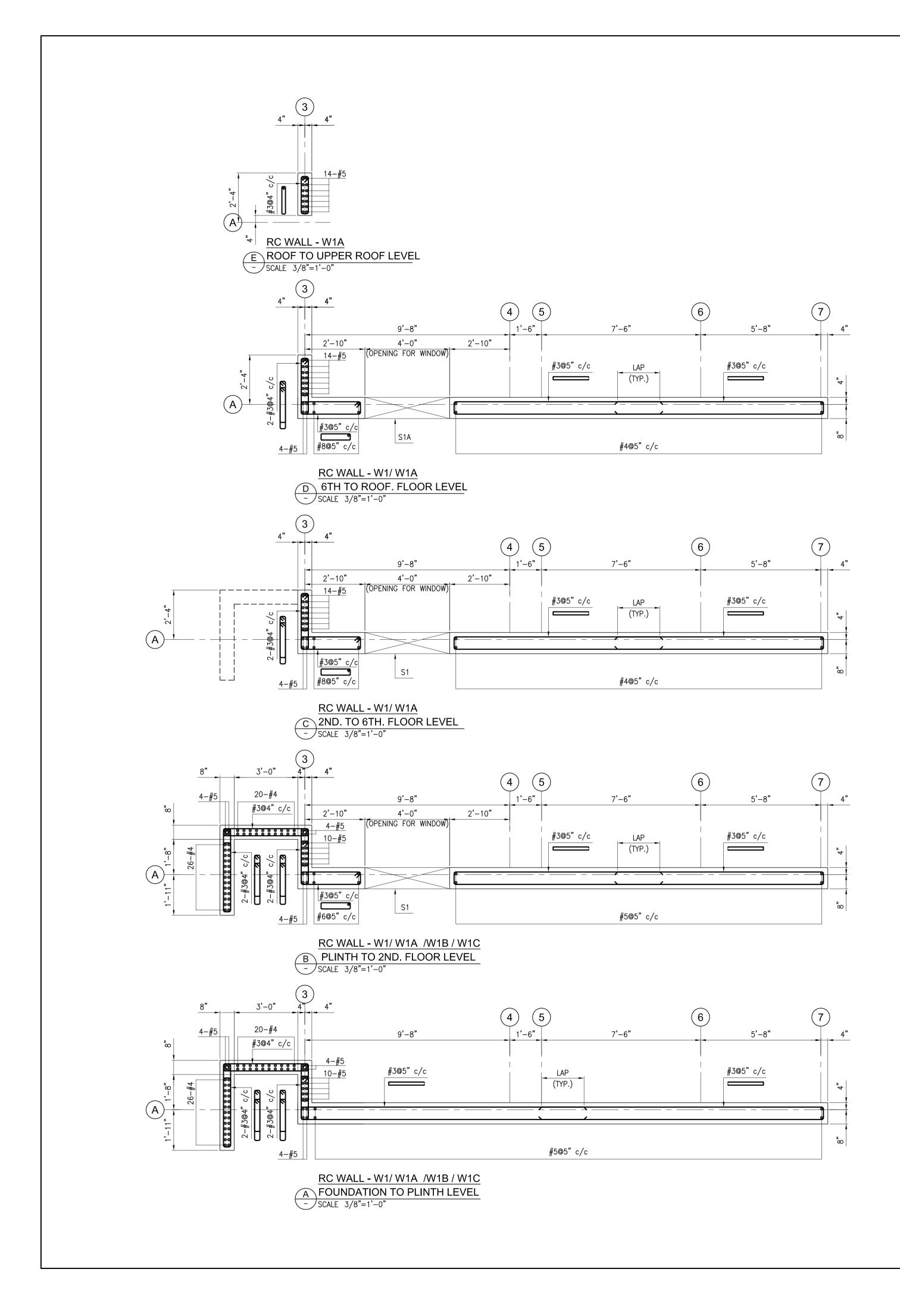


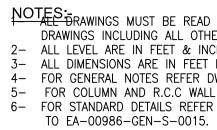




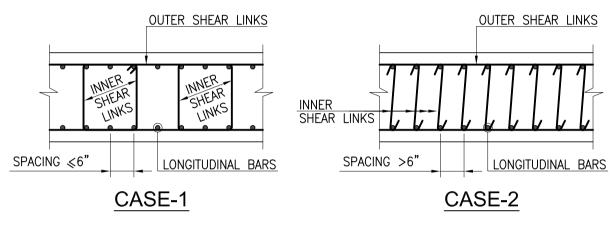


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Proje	ect Code :	00986	Rev. : 0





TYPICAL DETAIL FOR INNER LINKS



NOTE FOR INNER SHEAR TIES (SHEAR WALLS)

CASE-1

* FOR SPACING ≤6" ALTERNATE LONGITUDINAL BARS MUST BE TIED WITH SHEAR LINKS CASE-2

* FOR SPACING >6" ALL LONGITUDINAL BARS MUST BE TIED WITH SHEAR LINKS

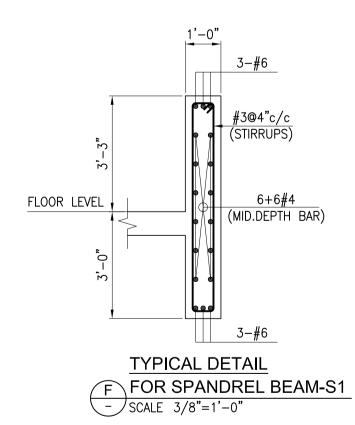
* DIA. OF INNER LINK BAR SHOULD BE AS FOLLOWS.

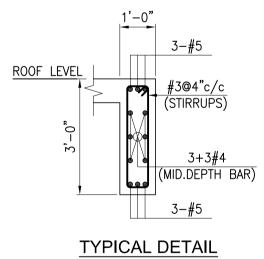
<u>BAR DIA.</u>

A– FOR LONGITUDINAL BAR DIA. #10 & LESS #3 @ SPACING SAME AS OUTER LINK

INNER LINKS

B- FOR LONGITUDINAL BAR DIA. #11 & MORE #4 @ SPACING SAME AS OUTER LINK



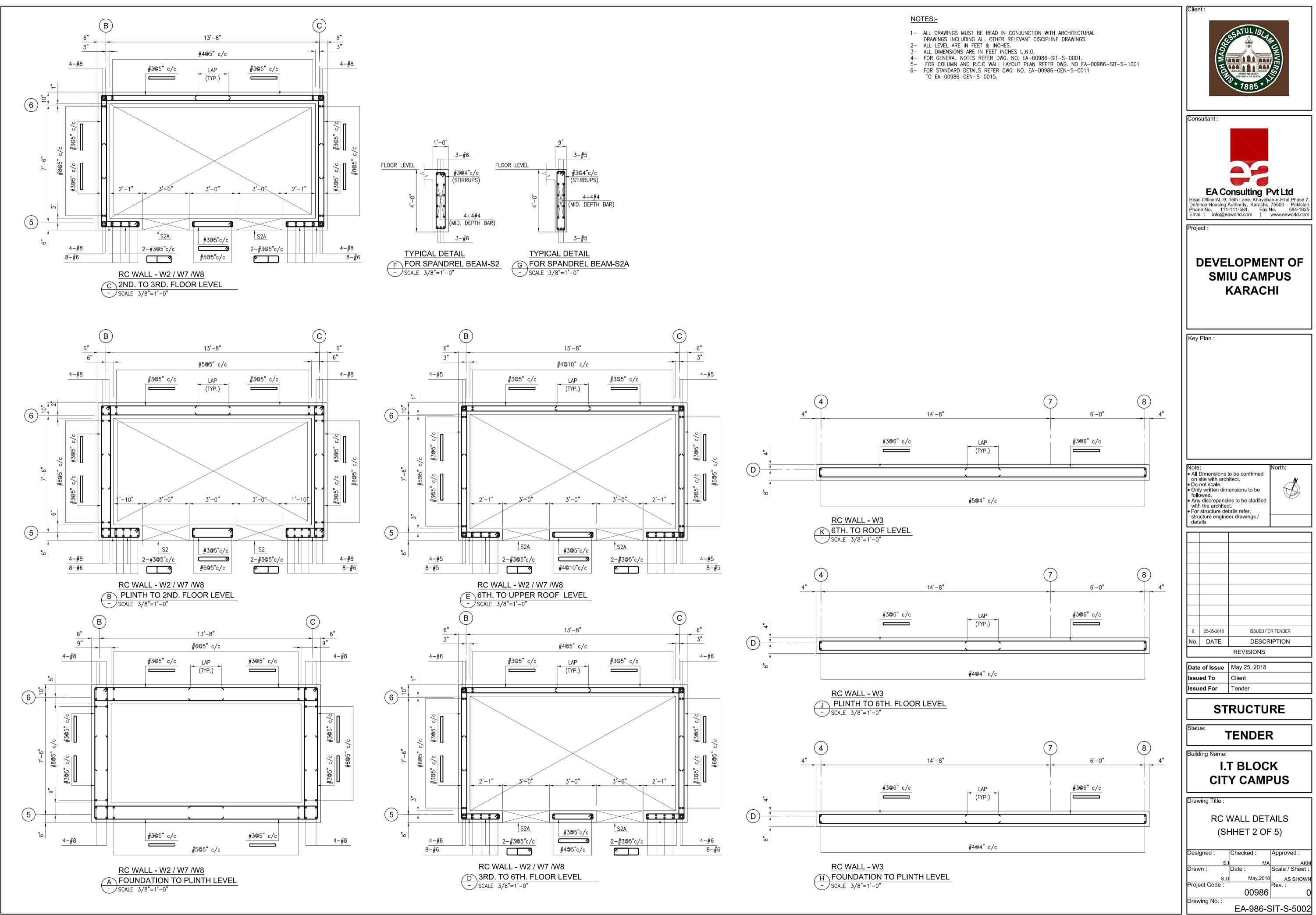


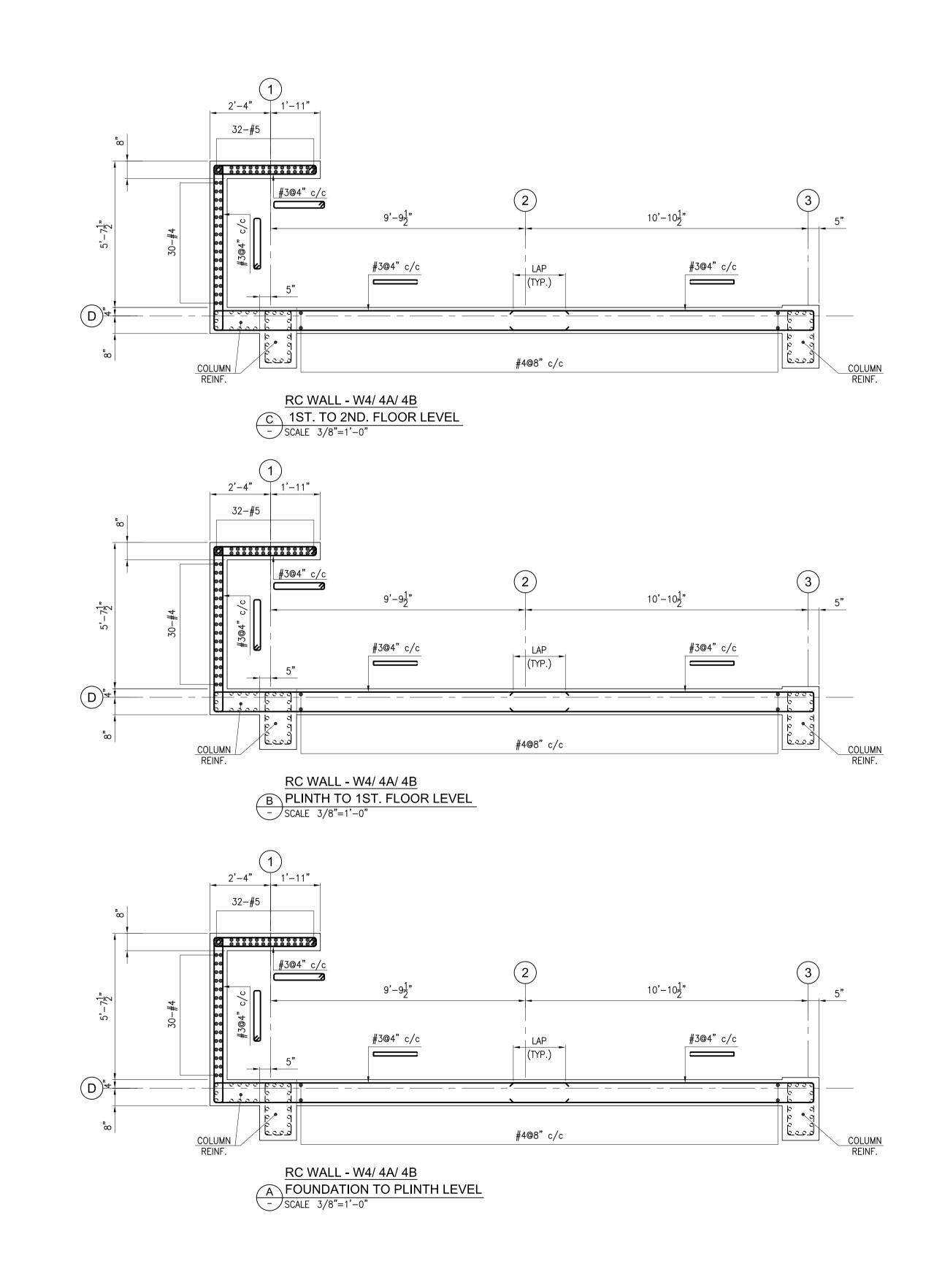
G FOR SPANDREL BEAM-S1A - SCALE 3/8"=1'-0"

) IN CONJUNCTION WITH ARCHITECTURAL	
HER RELEVANT DISCIPLINE DRAWINGS.	
ICHES.	
INCHES U.N.O.	
DWG. NO. EA-00986-SIT-S-0001.	

FOR COLUMN AND R.C.C WALL LAYOUT PLAN REFER DWG. NO EA-00986-SIT-S-1001
FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.

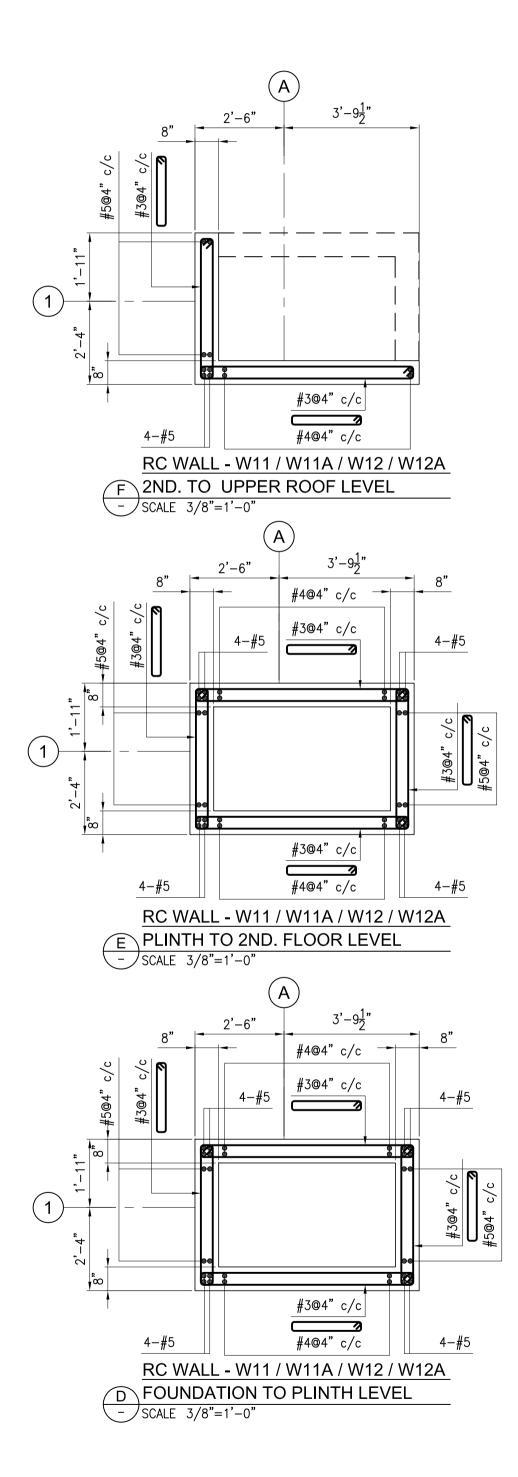
Client :
Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com
Project : DEVELOPMENT OF SMIU CAMPUS KARACHI
Key Plan :
 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
0 25-05-2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS
Issued To Client Issued For Tender
STRUCTURE
Status: TENDER
Building Name: I.T BLOCK CITY CAMPUS
Drawing Title : RC WALL DETAILS (SHHET 1 OF 5) Designed : Checked : Approved : S.I. MA AKM
Drawn : Date : Scale / Sheet : S.D May,2018 AS SHOWN Project Code : Rev. : 00986 0 Drawing No. :





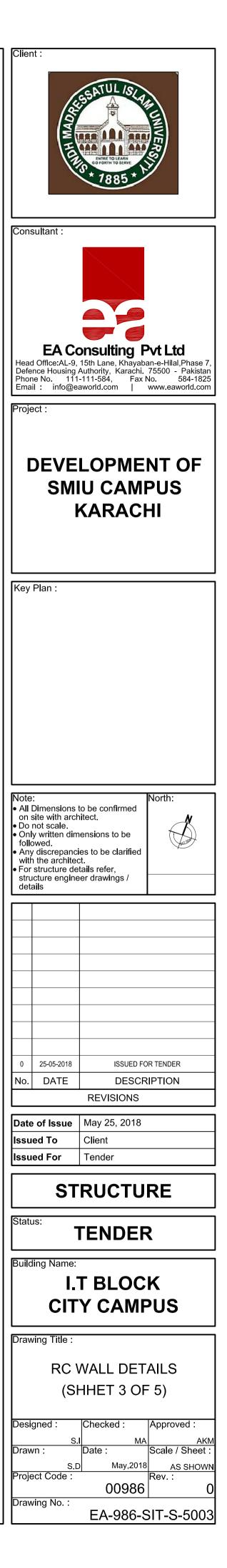
NOTES:-

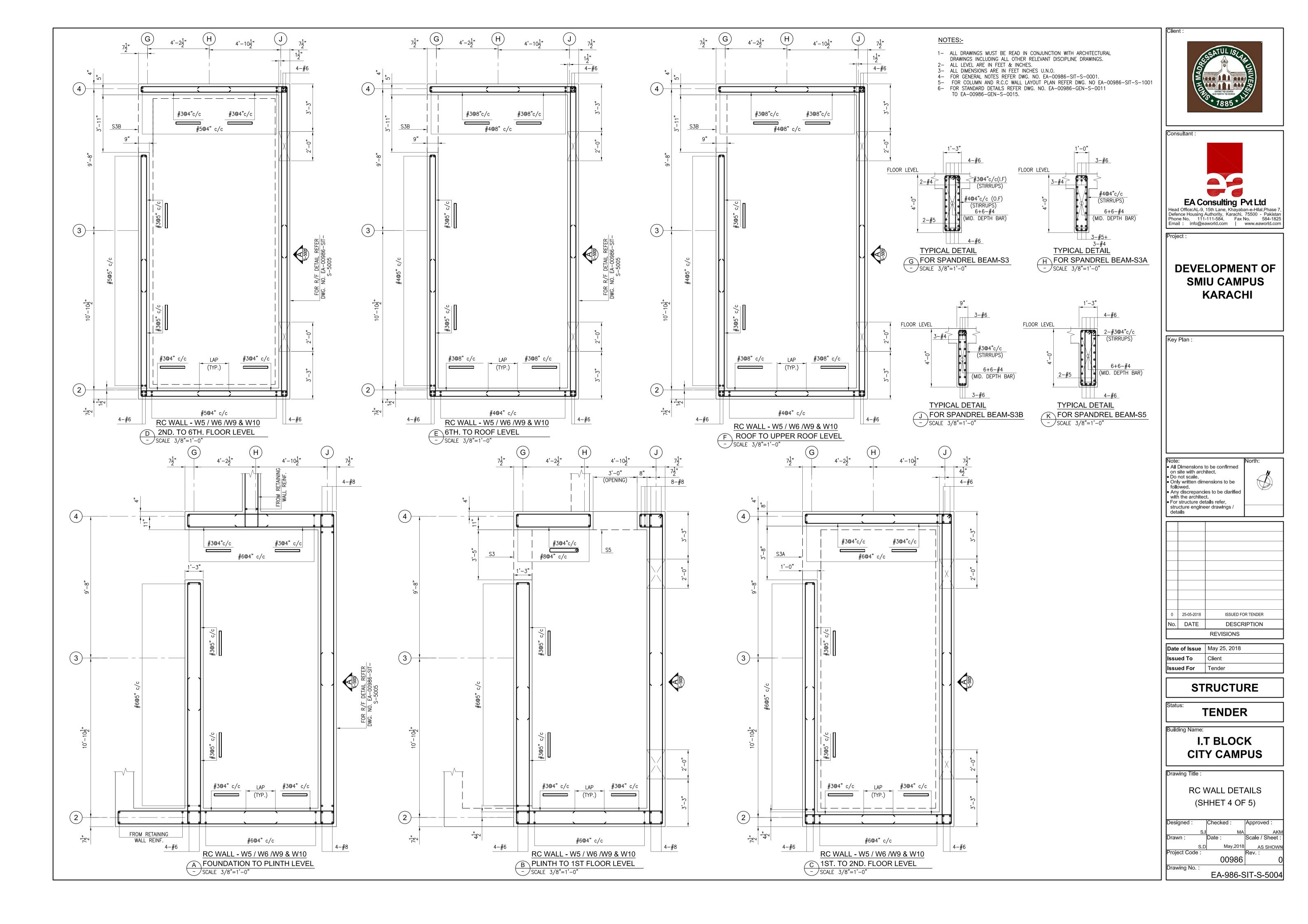
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5-	FOR COLUMN AND R.C.C WA
6-	FOR STANDARD DETAILS REFE
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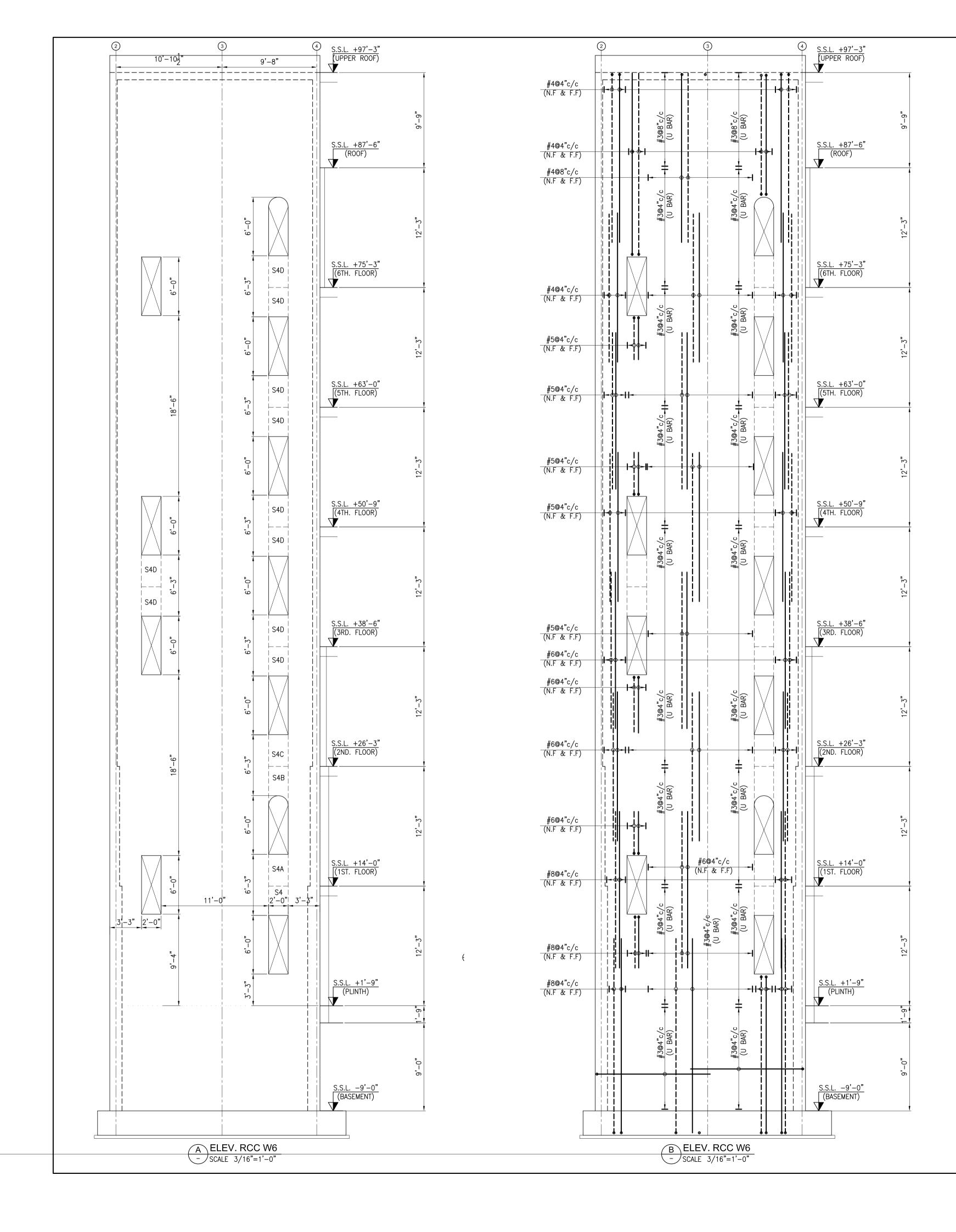


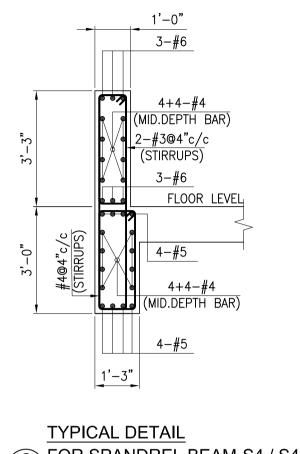
EAD IN CONJUNCTION WITH ARCHITECTURAL OTHER RELEVANT DISCIPLINE DRAWINGS. INCHES. EET INCHES U.N.O.

ER DWG. NO. EA-00986-SIT-S-0001. WALL LAYOUT PLAN REFER DWG. NO EA-00986-SIT-S-1001 EFER DWG. NO. EA-00986-GEN-S-0011

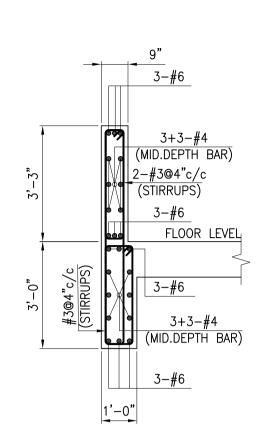








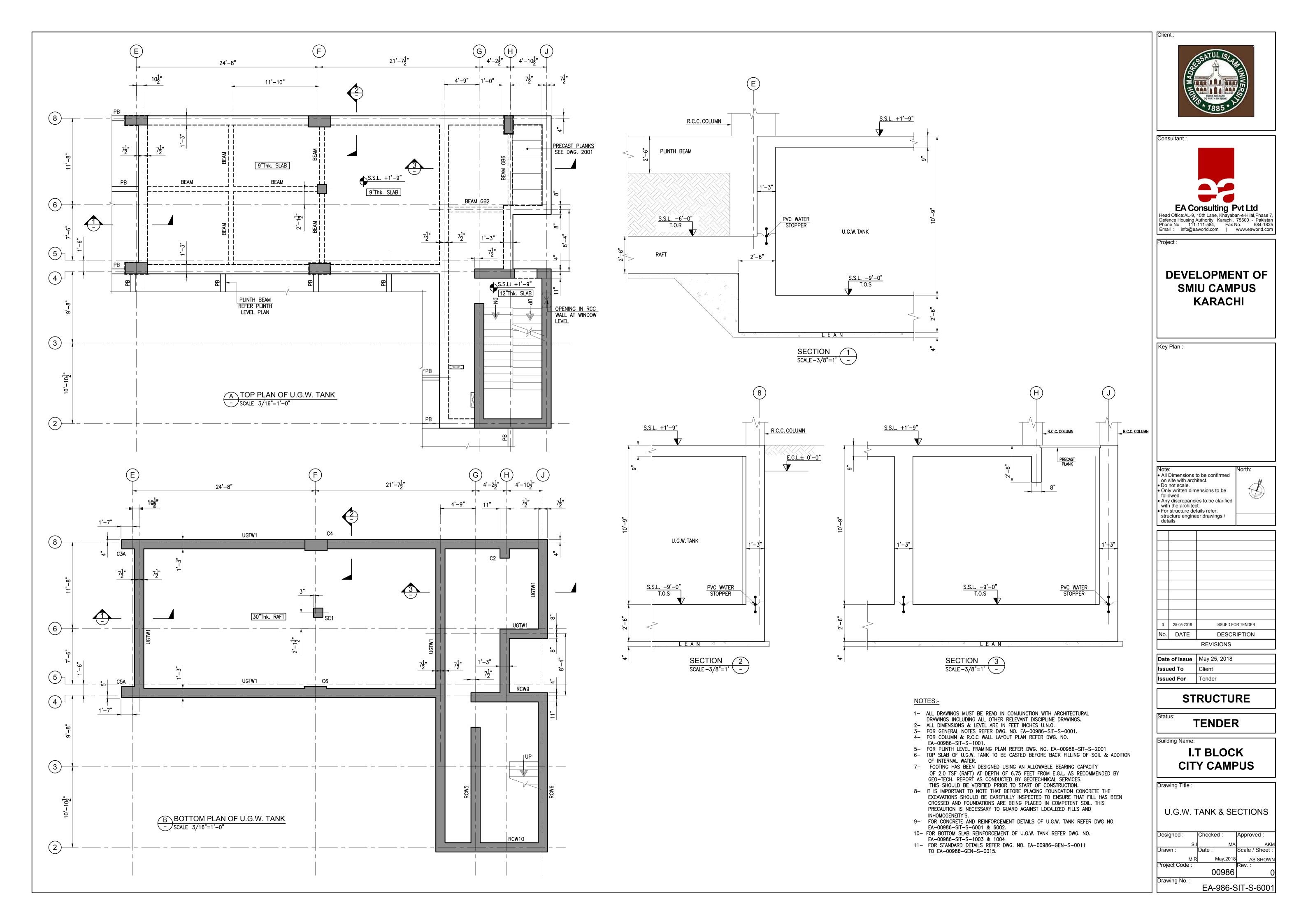


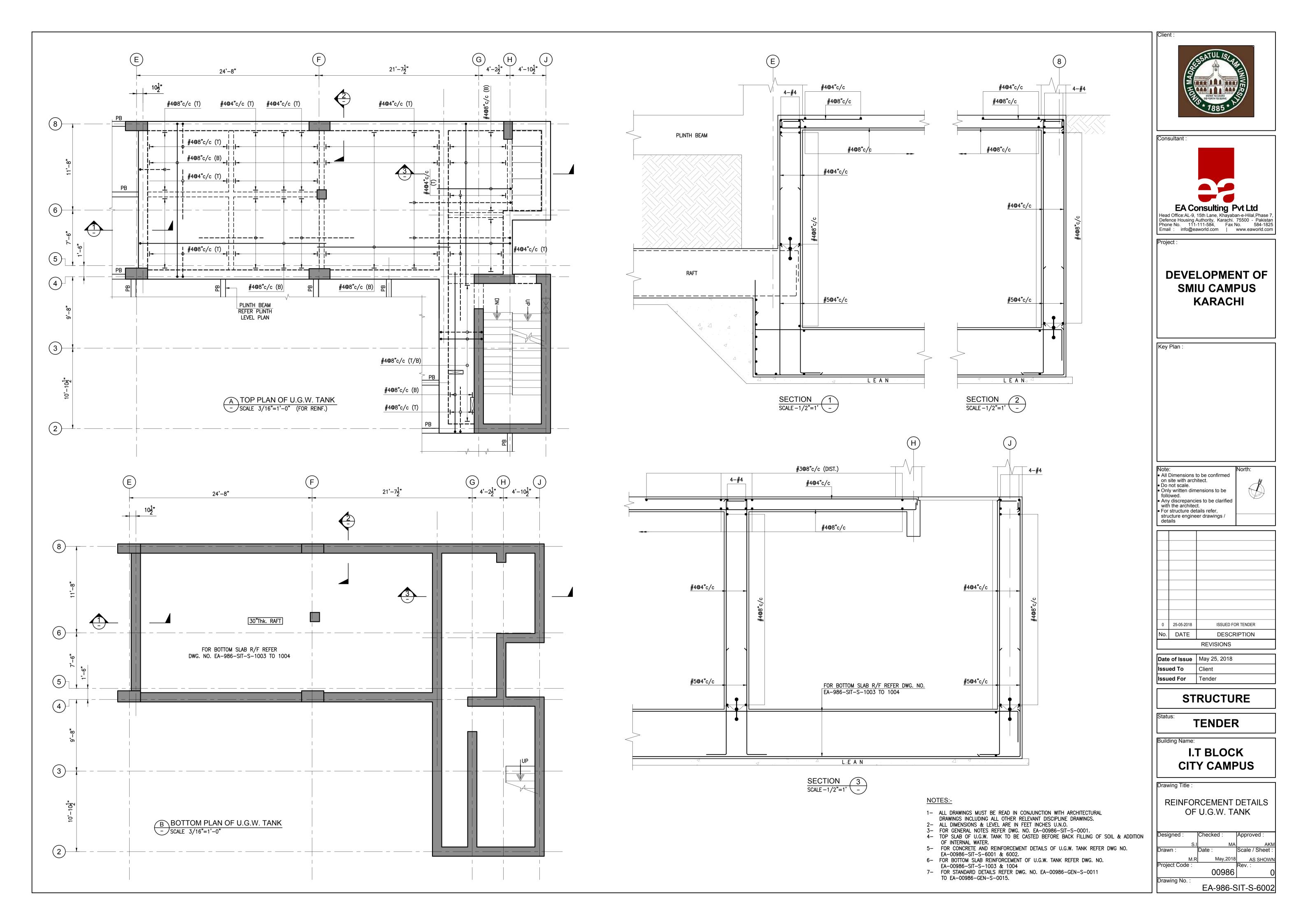


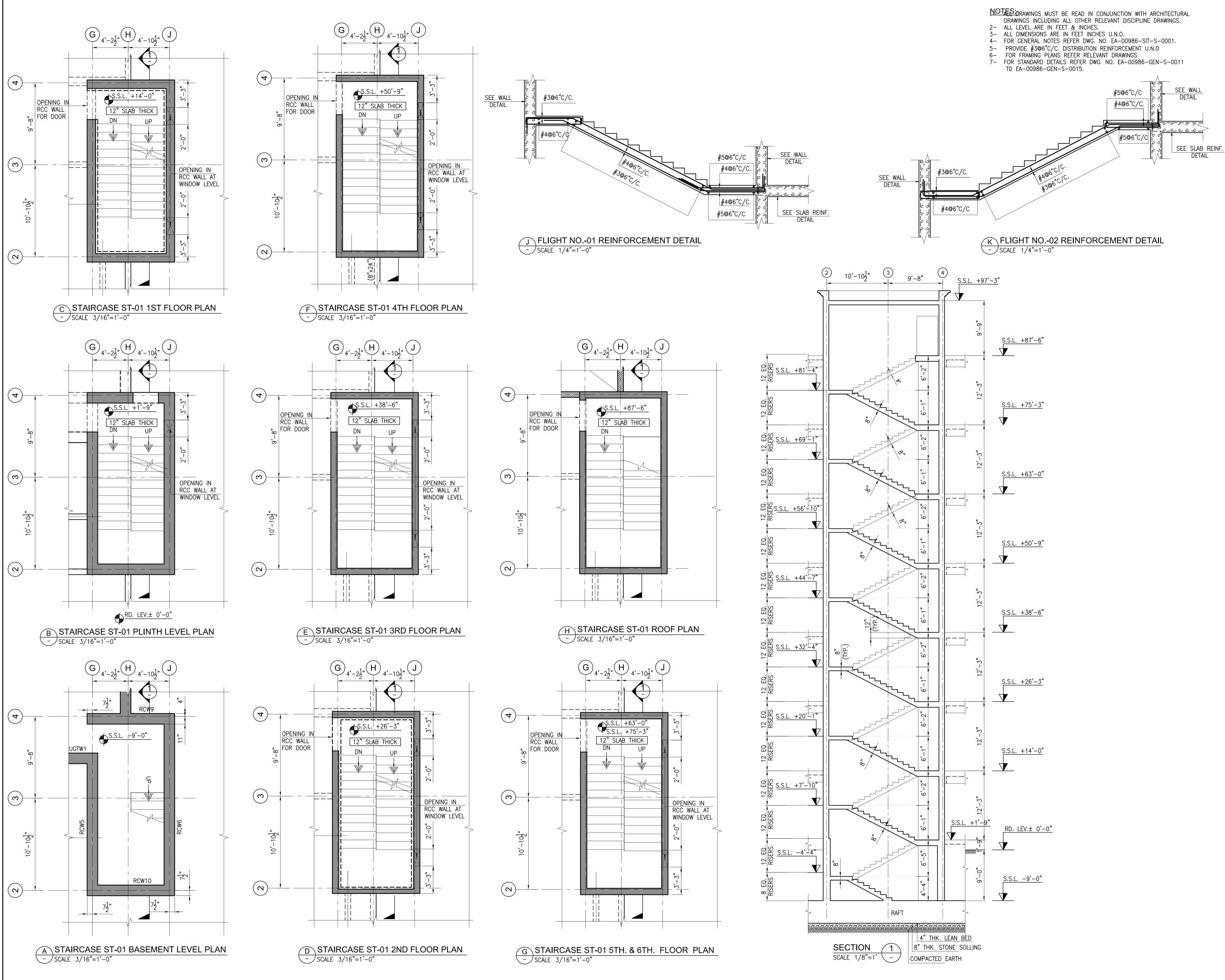
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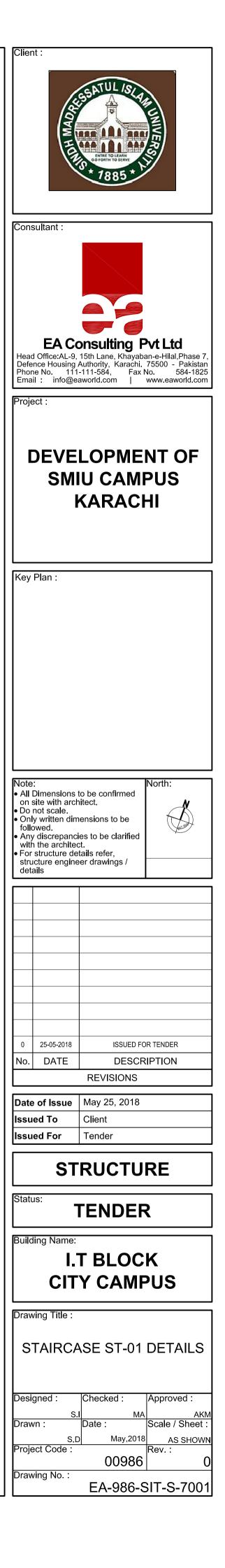
TYPICAL DETAIL - SCALE 3/8"=1'-0"

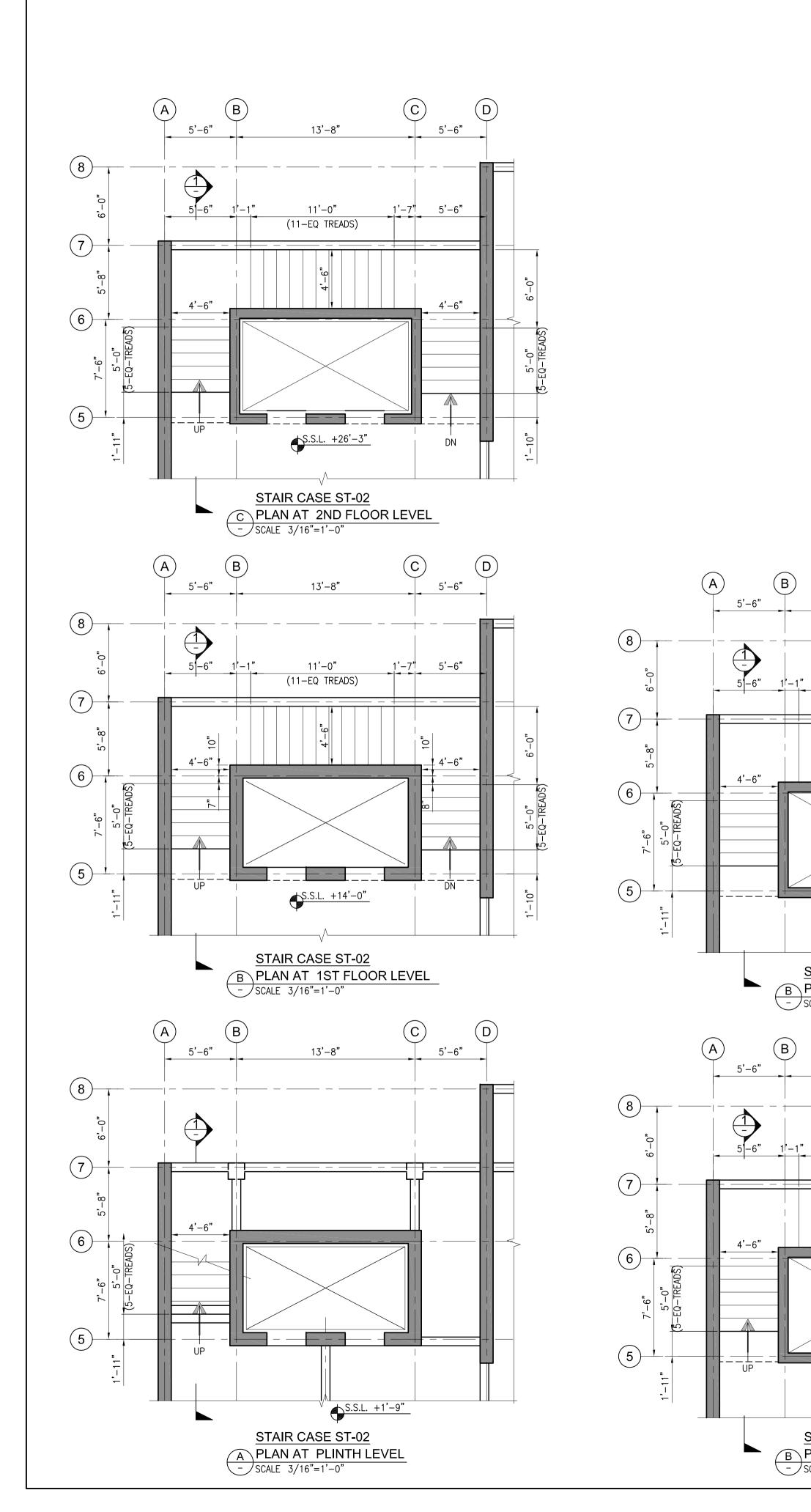
1- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS INCLUDING ALL OTHER RELEVANT DISCIPLINE DRAWINGS. 2- ALL LEVEL ARE IN FEET & INCHES. 3- ALL DIMENSIONS ARE IN FEET INCHES U.N.O. 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001.
5- FOR COLUMN AND R.C.C WALL LAYOUT PLAN REFER DWG. NO EA-00986-SIT-S-1001
6- FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015. E MAN AND Consultant : 3-#6 6+6-#4 (MID.DEPTH BAR) **∦**4@4"c∕c EA Consulting Pvt Ltd (STIRRUPS) Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com FLOOR LEVEL **DEVELOPMENT OF SMIU CAMPUS** 3-#6 KARACHI 9" TYPICAL DETAIL C FOR SPANDREL BEAM-S4 / S4A D FOR SPANDREL BEAM-S4B / S4C FOR SPANDREL BEAM-S4D - SCALE 3/8"=1'-0" Key Plan : Note: • All Dimensions to be confirmed on site with architect.
Do not scale.
Only written dimensions to be followed. Any discrepancies to be clarified with the architect.
For structure details refer, structure engineer drawings / details 0 25-05-2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS Date of Issue May 25, 2018 Client Issued To Issued For Tender STRUCTURE Status: TENDER Building Name: I.T BLOCK **CITY CAMPUS** Drawing Title : RC WALL DETAILS (SHHET 5 OF 5) Checked : Approved Designed Scale / Sheet Drawn : May,2018 AS SHOWN Project Code : Rev.: 00986 Drawing No. EA-986-SIT-S-5005



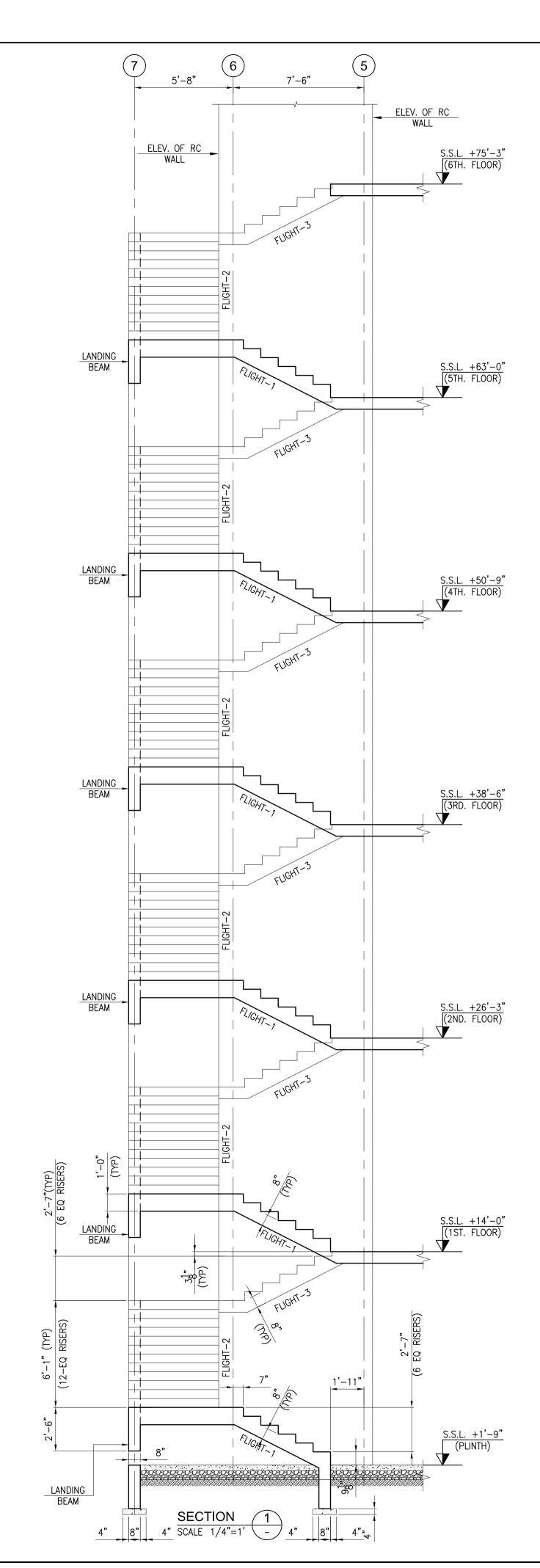


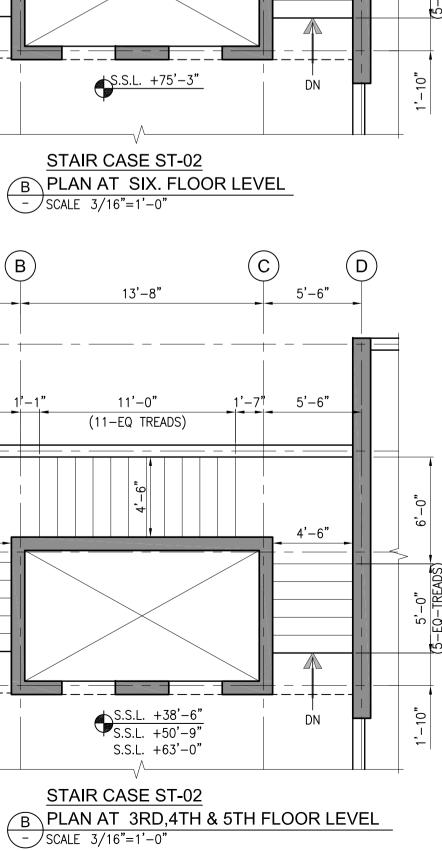


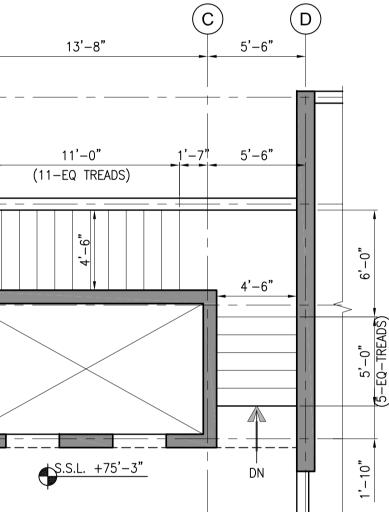




NOTE: 1- AL DR 2- AL 3- AL 4- FO 5- PI 6- FO 7- FO 8- FO

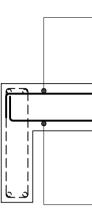


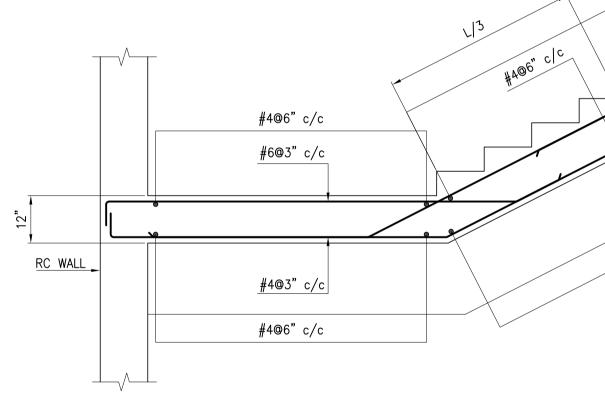


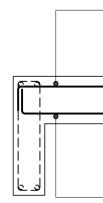


TEL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL
DRAWINGS INCLUDING ALL OTHER RELEVANT DISCIPLINE DRAWINGS.
ALL LEVEL ARE IN FEET & INCHES.
ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001.
PROVIDE #3@6"C/C. DISTRIBUTION REINFORCEMENT U.N.O
FOR FRAMING PLANS REFER RELEVANT DRAWINGS.
FOR REINFORCEMENT DETAIL REFER DWG. NO. EA-00986-SIT-S-700
OR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011
TO EA-00986-GEN-S-0015.

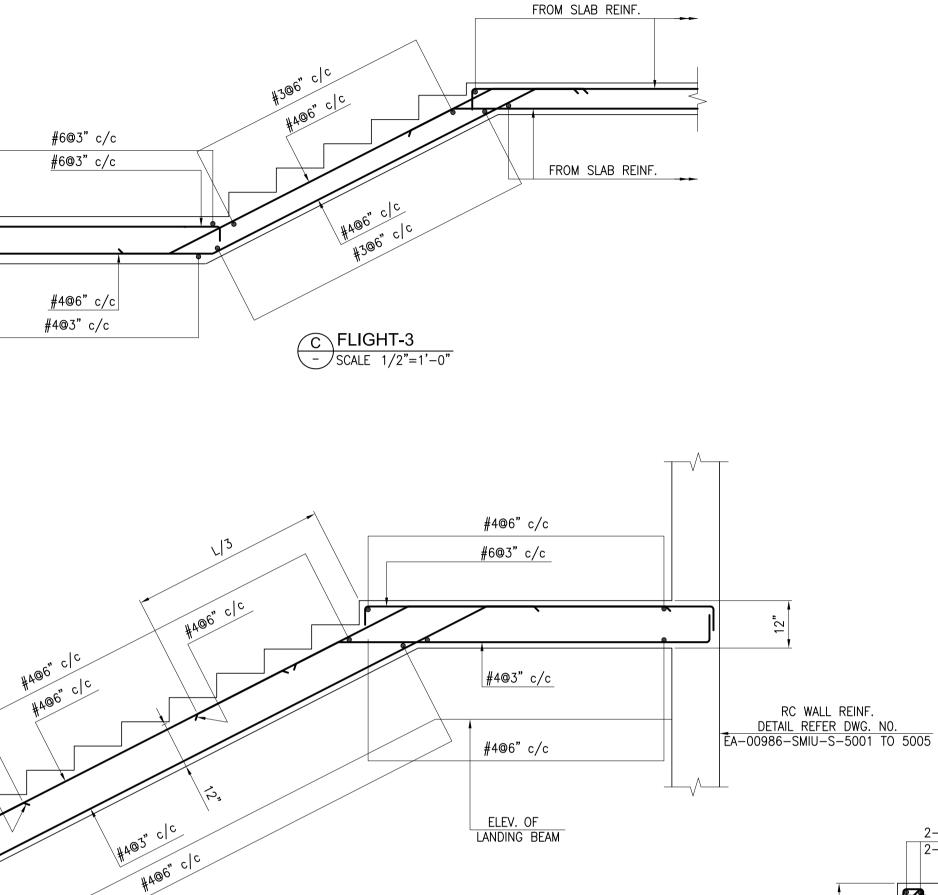
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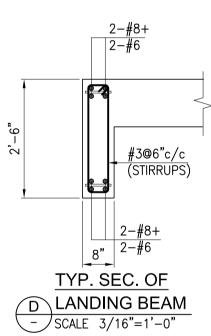


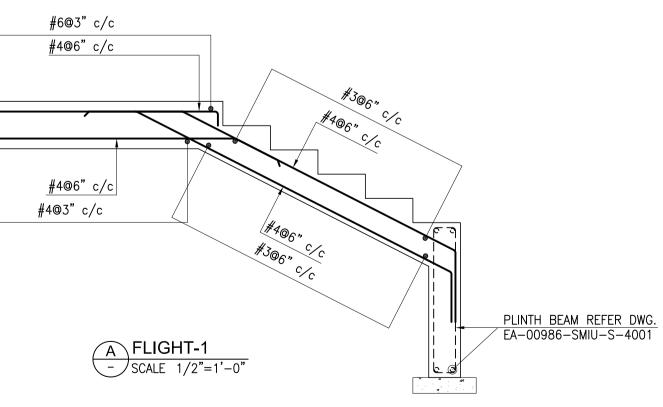




<u>NO</u> 1-2-3-4-5-6-7-



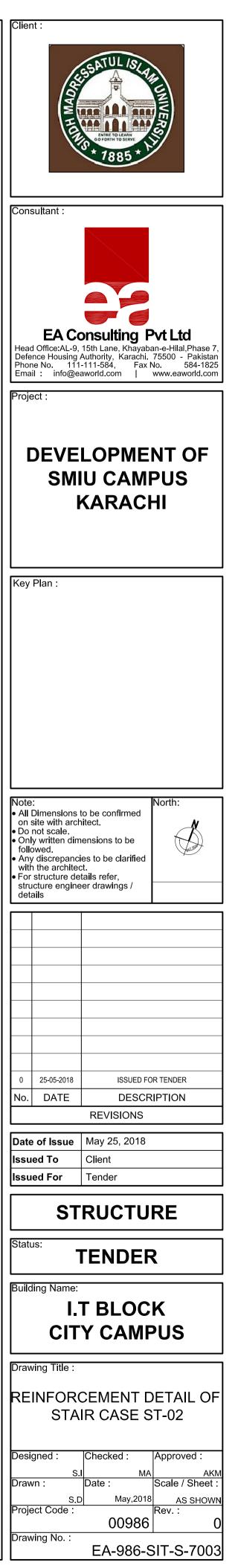




B FLIGHT-2 - SCALE 1/2"=1'-0"

NOTES:-

- ALL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS INCLUDING ALL OTHER RELEVANT DISCIPLINE DRAWINGS.
 ALL LEVEL ARE IN FEET & INCHES.
- 3- ALL DIMENSIONS ARE IN FEET INCHES U.N.O.
 4- FOR GENERAL NOTES REFER DWG. NO. EA-00986-SIT-S-0001.
- 5- PROVIDE #3@6"C/C. DISTRIBUTION REINFORCEMENT U.N.O 6- FOR FRAMING PLANS REFER RELEVANT DRAWINGS.
- FOR FRAMING PLANS REFER RELEVANT DRAWINGS.
 FOR STANDARD DETAILS REFER DWG. NO. EA-00986-GEN-S-0011 TO EA-00986-GEN-S-0015.



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EQUIP.IMAGE	EQUIP.TAG DESCRIPTION	SERVICE	LOCATION	FLOW RATE (GPM.)	MAXIMUM TOTAL DYNAMIC HEAD (PSI) DYNAMIC HFAD (FT)	TAL	NUFACTURER	STAGES	VERTICAL MULTISTAGE	HORIZONTAL SPLIT	END SUCTION	IN LINE	VERTICAL TURBINE	SUBMERSIBLE	MINIMUM H.P.	POWER K.W	VOLTS	PHASE	CYCLES (Hz) MANIJAI	CONTROL	AUTOMATIC CONTROL VARIABLE FREQUENCY		KEQUIRED
	FP DIESEL FIRE PUMP	FIRE WATER SUPPLY TO WET SYSTEM	UNDER-GROUND	100	- 2	290	_	-	-	✓	-	-	-	-		ENGINE	DRIVE	ER		-	✓ ✓		_
	JOCKEY PUMP	FIRE WATER SUPPLY TO WET SYSTEM	UNDER-GROUND	10	- 3	800	-	-	-	-	-	\checkmark	-	-	16	12 4	00	3	50	-	✓ ✓	 ✓ 	

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EQUIP.IMAGE	EQUIP.TAG	DESCRIPTION	SERVICE	LOCATION	FLOW RATE (GPM.)	MAXIMUM TOTAL DYNAMIC HEAD (FT)	MINIMUM TOTAL DYNAMIC HEAD (FT)	MANUFACTUF	STAGES	VERTICAL MULTISTAGE	HORIZONTAL SPLIT	END SUCTION	IN LINE	VERTICAL TURBINE	SUBMERSIBLE	MINIMUM H.P.	POWER K.W	VOLTS	PHASE	CVCLES (Hz)	MANUAL CONTROL	AUTOMATIC CONTROL	PRESSURE GAUG RANGE
		TRANSFER PUMP	WATER TRANSFER TO OHT	UNDER-GROUND	70	-	130	-	-	~	_	-	-	-	-	3.3	2.5	400	3	50	~	\checkmark	_
		TRANSFER PUMP	WATER TRANSFER TO OHT	UNDER-GROUND	70	-	130	-	-	~	-	-	-	-	-	3.3	2.5	400	3	50	\checkmark	\checkmark	-

							SUB	MERSIE	BLE P	UM	PS												
						AL (FT)		RER		1	PU	MP TYP	ΡE				I	МОТОР	8				Ц
EQUIP.IMAGE	EQUIP.TAG	DESCRIPTION	SERVICE	LOCATION	FLOW RATE (GPM.)	MAXIMUM TOTAL DYNAMIC HEAD (F	MINIMUM TOTAL DYNAMIC HEAD (FT	MANUFACTUI	STAGES	VERTICAL MULTISTAGE	HORIZONTAL SPLIT	END SUCTION	IN LINE	VERTICAL TURBINE	SUBMERSIBLE	MINIMUM H.P.	POWER K.W	VOLTS	PHASE	CYCLES (Hz)	MANUAL CONTROL	AUTOMATIC CONTROL	PRESSURE GAUG RANGE
		SUBM. PUMP	WATER REMOVAL PUMP ROOM	UNDER-GROUND	40	-	20	-	-	-	-	-	-	-	\checkmark	1	0.75	220	1	50		\checkmark	-
and the second s	SP 02	SUBM. PUMP	WATER REMOVAL PUMP ROOM	UNDER-GROUND	40	-	20	-	-	-	-	-	-	-	\checkmark	1	0.75	220	1	50		\checkmark	-

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ALARMS REQUIRED	EMERGENCY POWER REQUIRED	REMAF	RKS	Cons	sultant :	
\checkmark	\checkmark	DIESEL	PUMP	Phor	d Office:AL-9, nce Housing ne No. 111 il : info@e	onsulting Pvt Ltd 15th Lane, Khayaban-e-Hilal,Phase 7, Authority, Karachi. 75500 - Pakistan I-111-584, Fax No. 584-1825 aworld.com www.eaworld.com
\checkmark	\checkmark	PRESSU PUMP	JRE MAINTAINING			LOPMENT OF
				Key	Plan :	KARACHI
RANGE	ALARMS REQUIRED	EMERGENCY POWER REQUIRED	REMARKS	Note • A		s to be confirmed
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	\checkmark	\checkmark	STANDBY PUMP			
				Issu	25.05.2018 DATE of Issue ed To ed For	For Tender DESCRIPTION REVISIONS May 25, 2018 Client Tender
	D	EMERGENCY POWER REQUIRED	REMARKS	Stati	JS:	LUMBING TENDER
RANGE	ALARMS REQUIRED	EMERGEI REQUIRE			ľ	T BLOCK Y CAMPUS
	\checkmark	\checkmark	DUTY PUMP		-	IENT SCHEDULE
	\checkmark	\checkmark	SUPPORT/STANDBY PUMP		gned :	Checked : Approved :
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					-	00986-SIT-D1-0002

DEVELOPMENT OF SMIU CAMPUS KARACHI



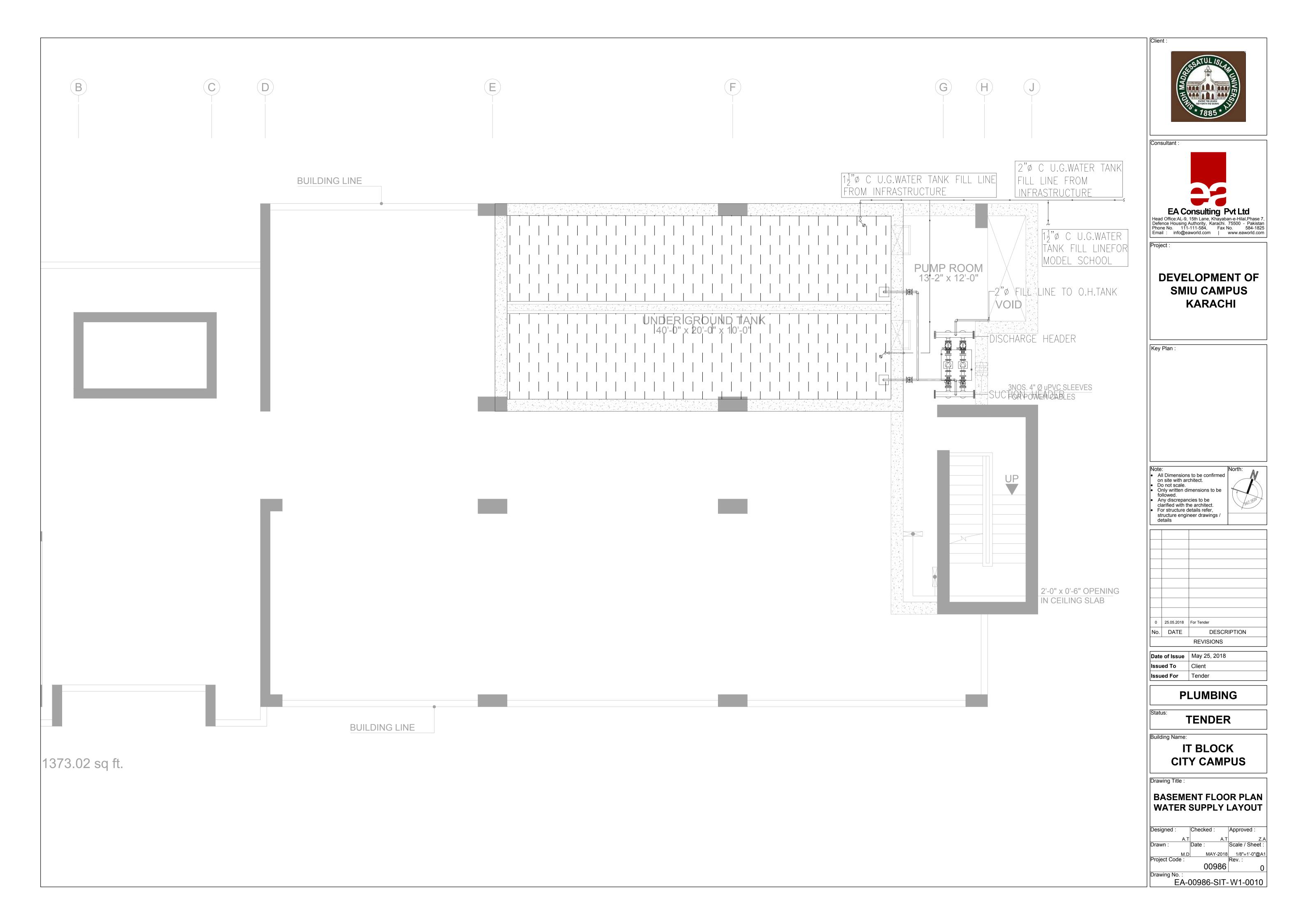
TENDER DRAWINGS Plumbing & Fire Fighting

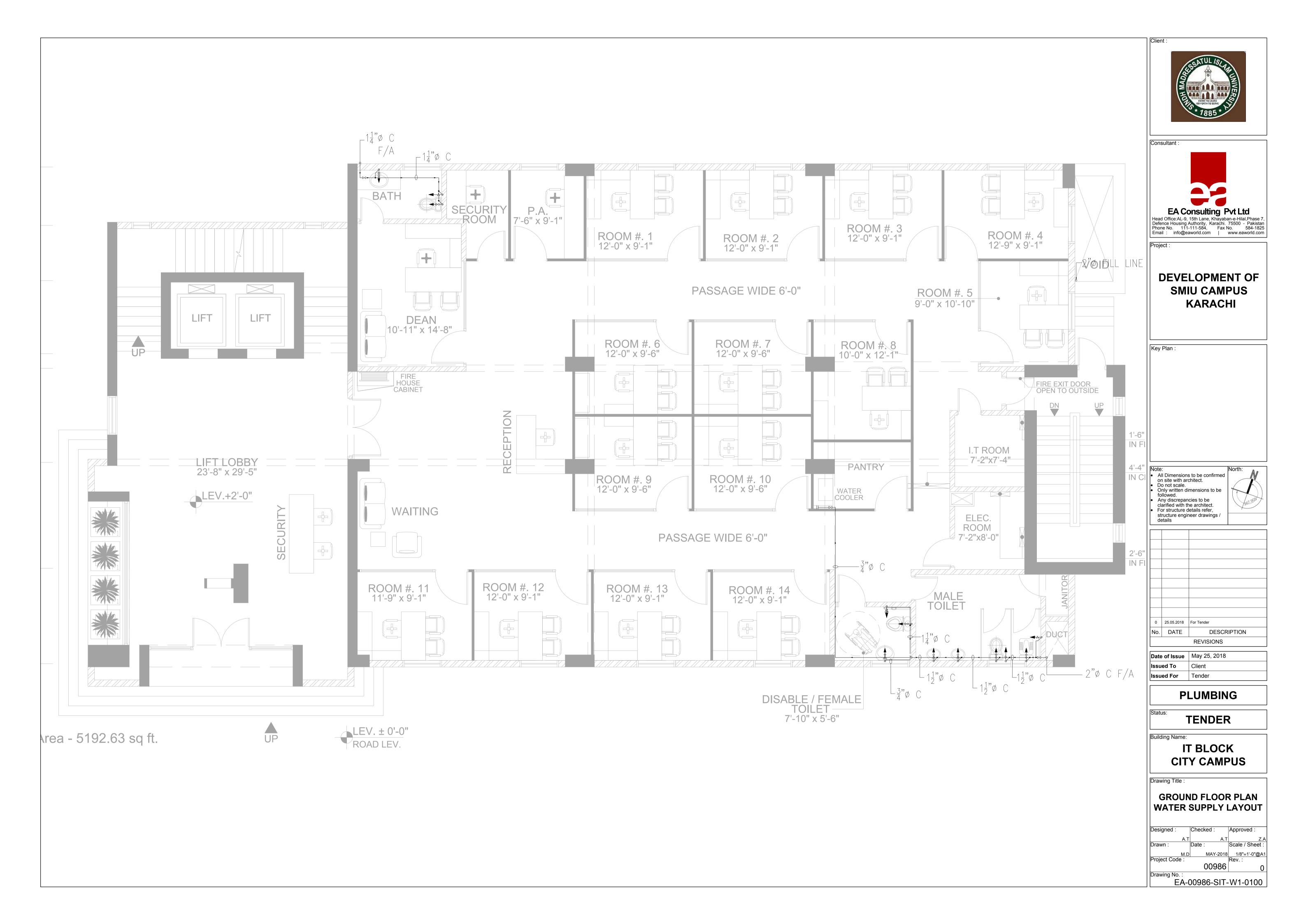


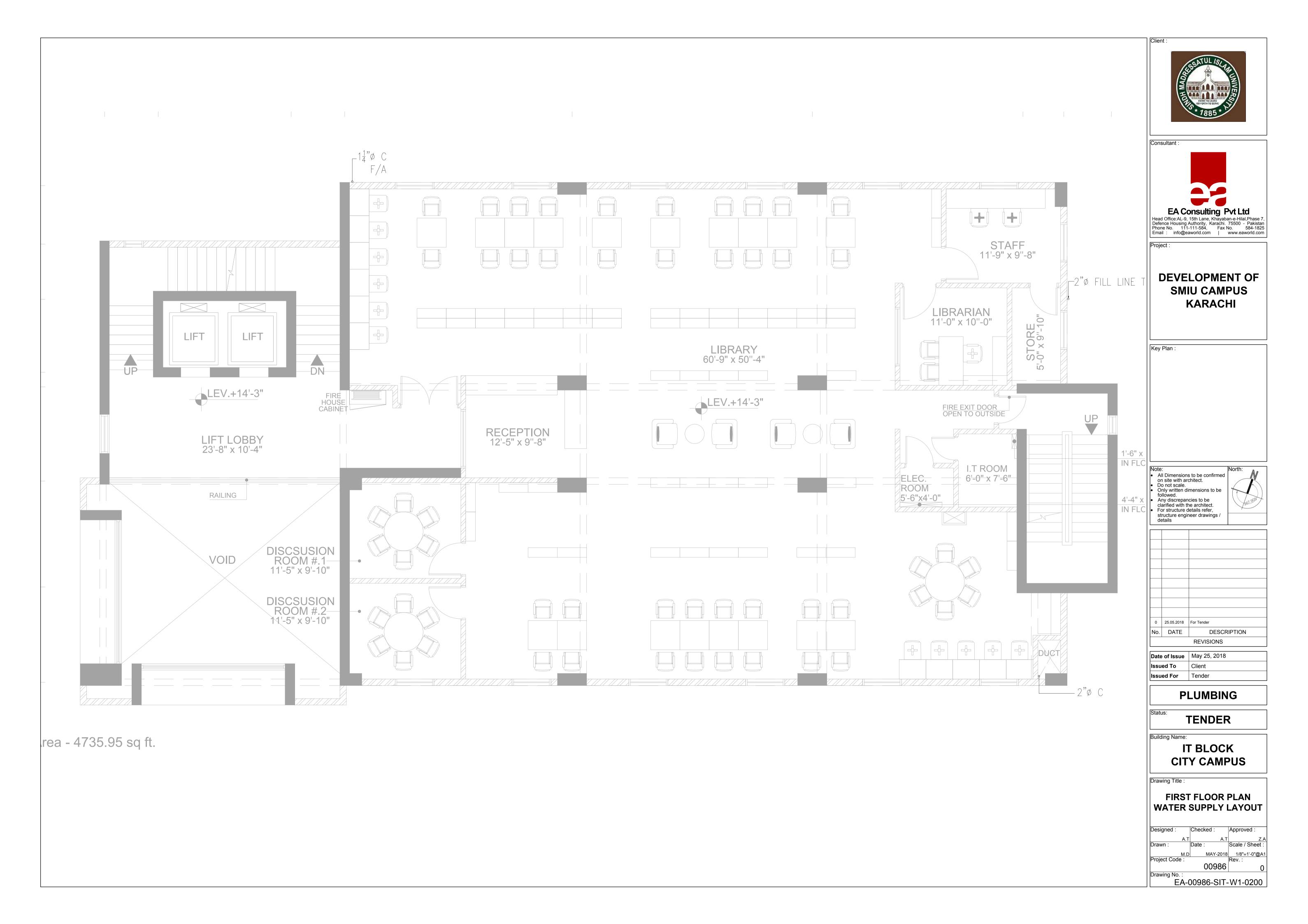


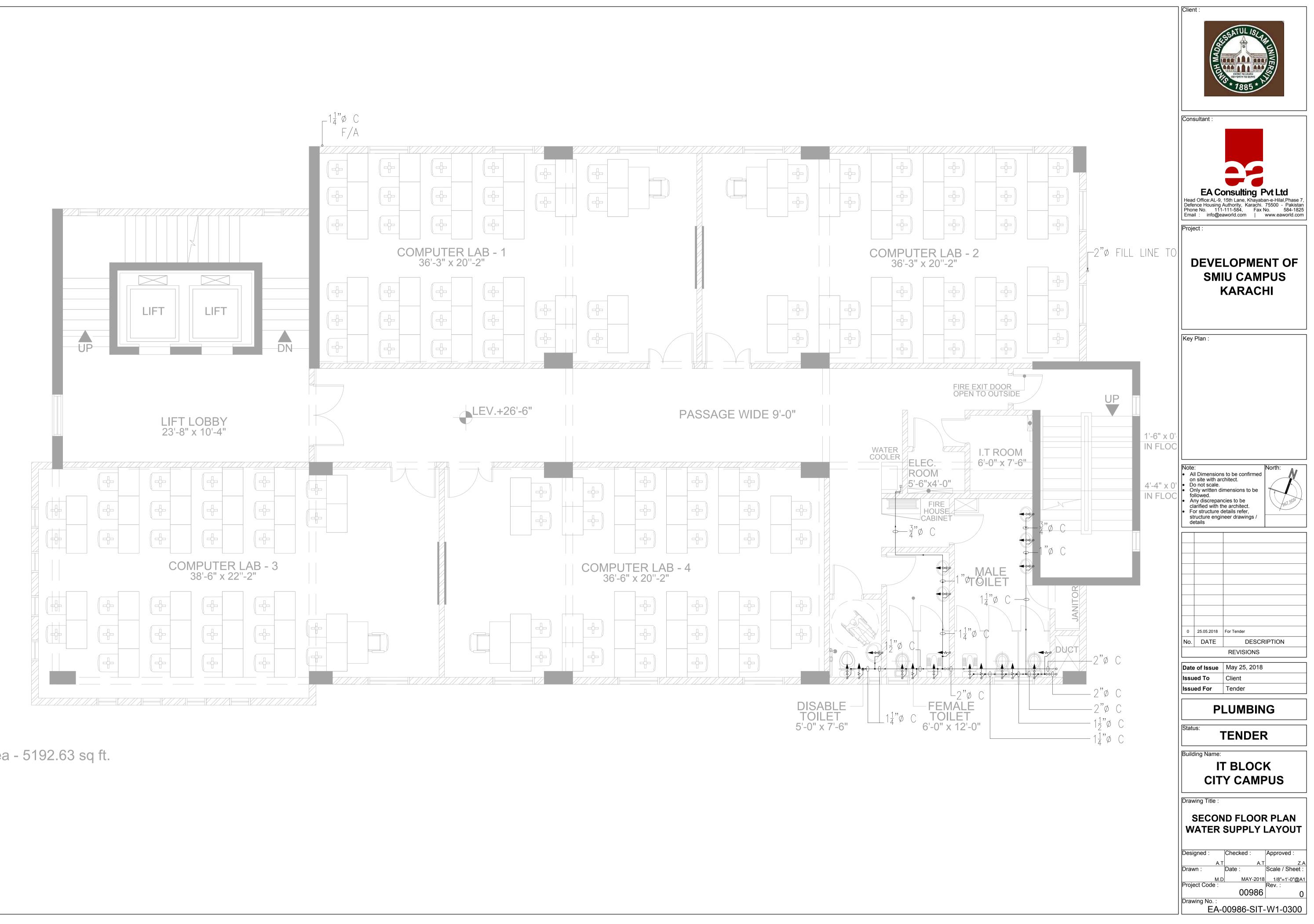
IT BLOCK City Campus June' 2018

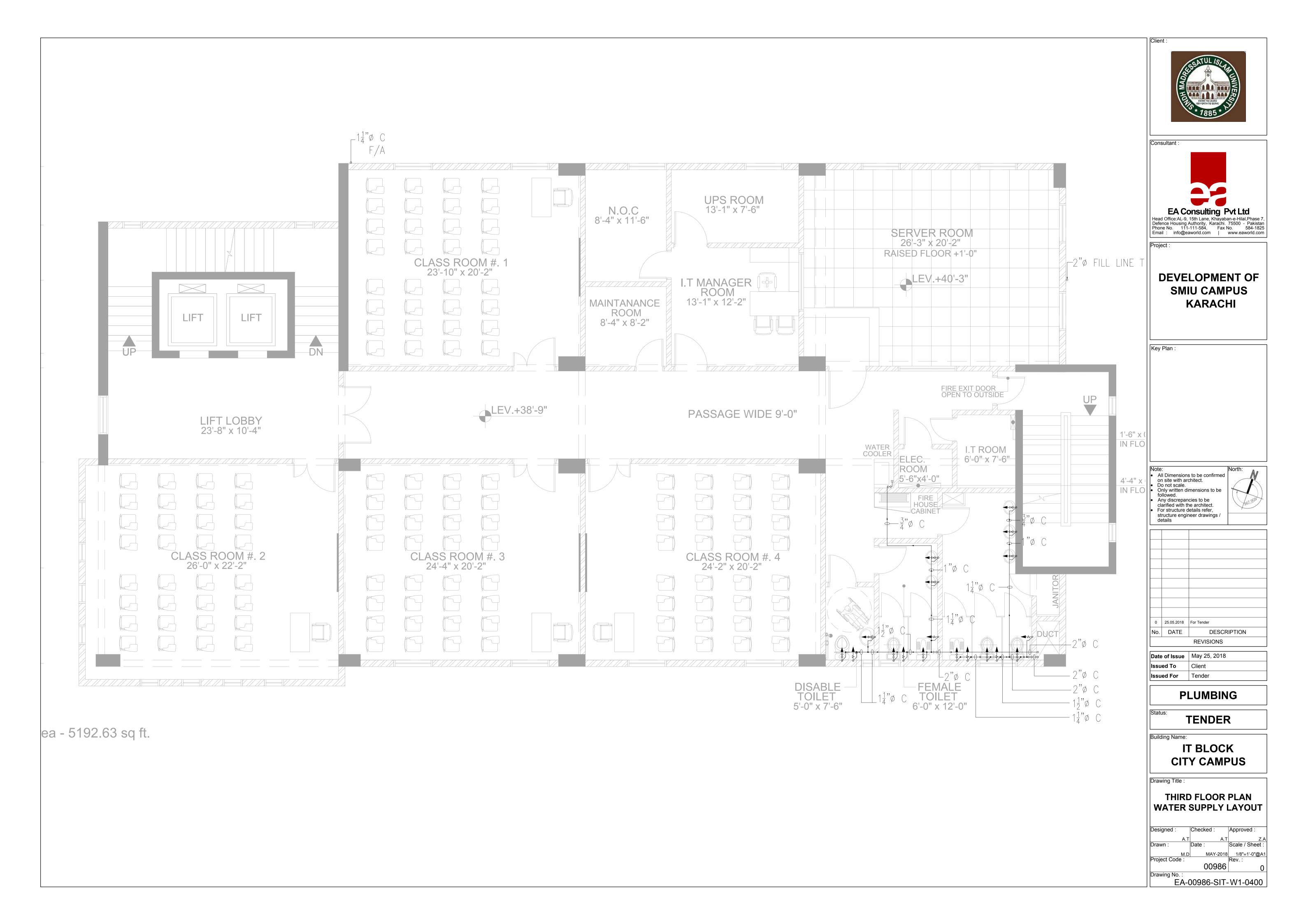


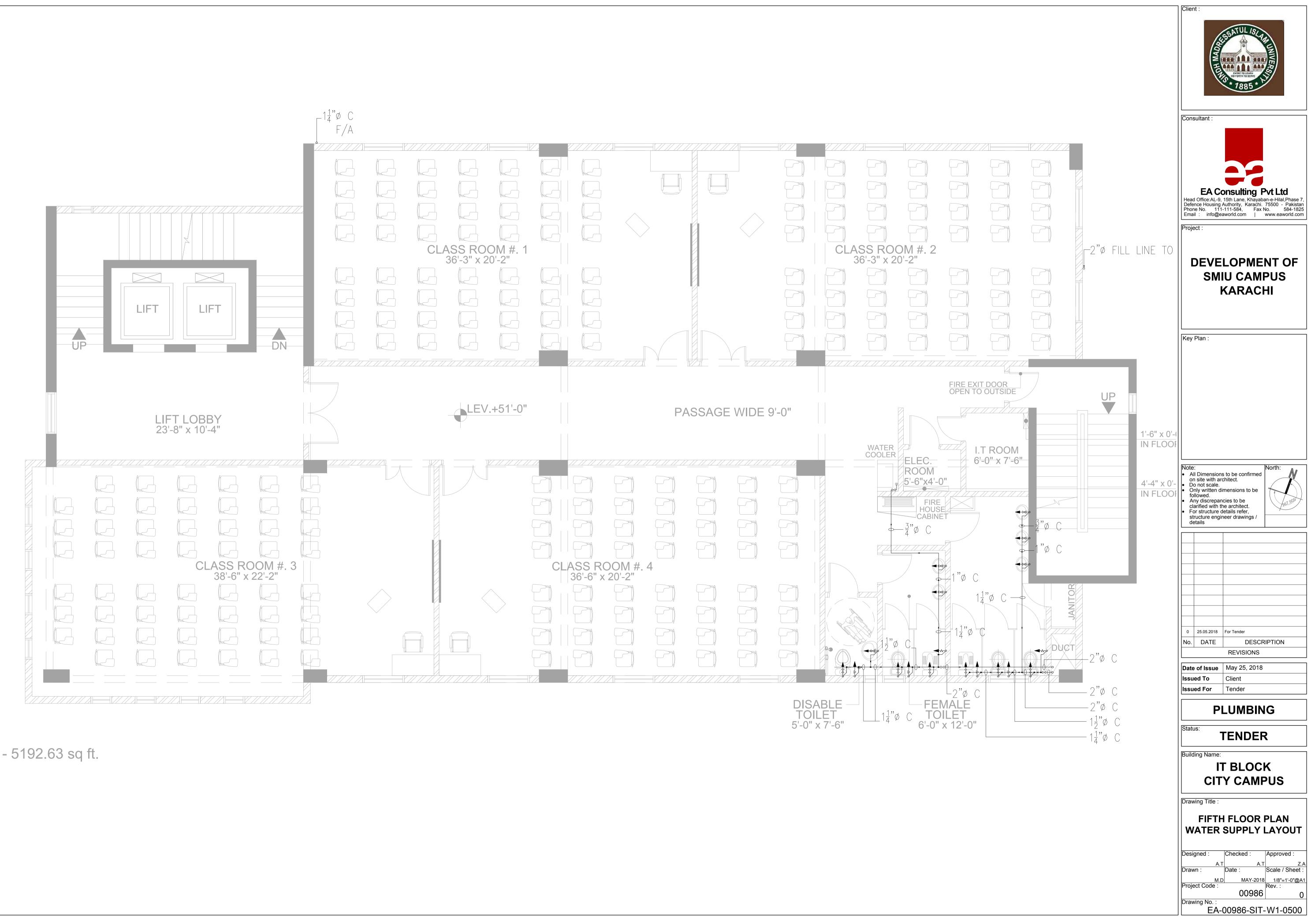


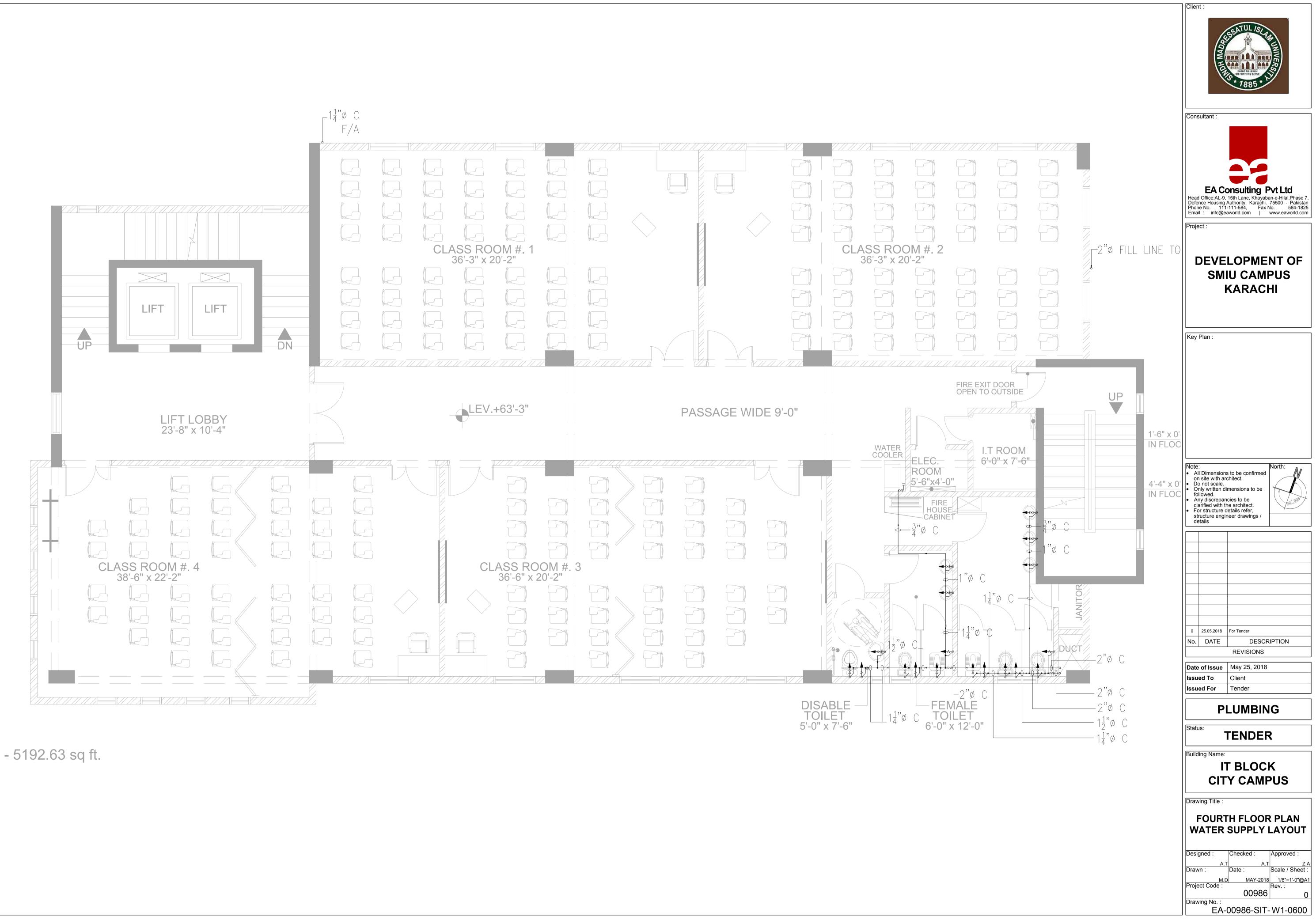


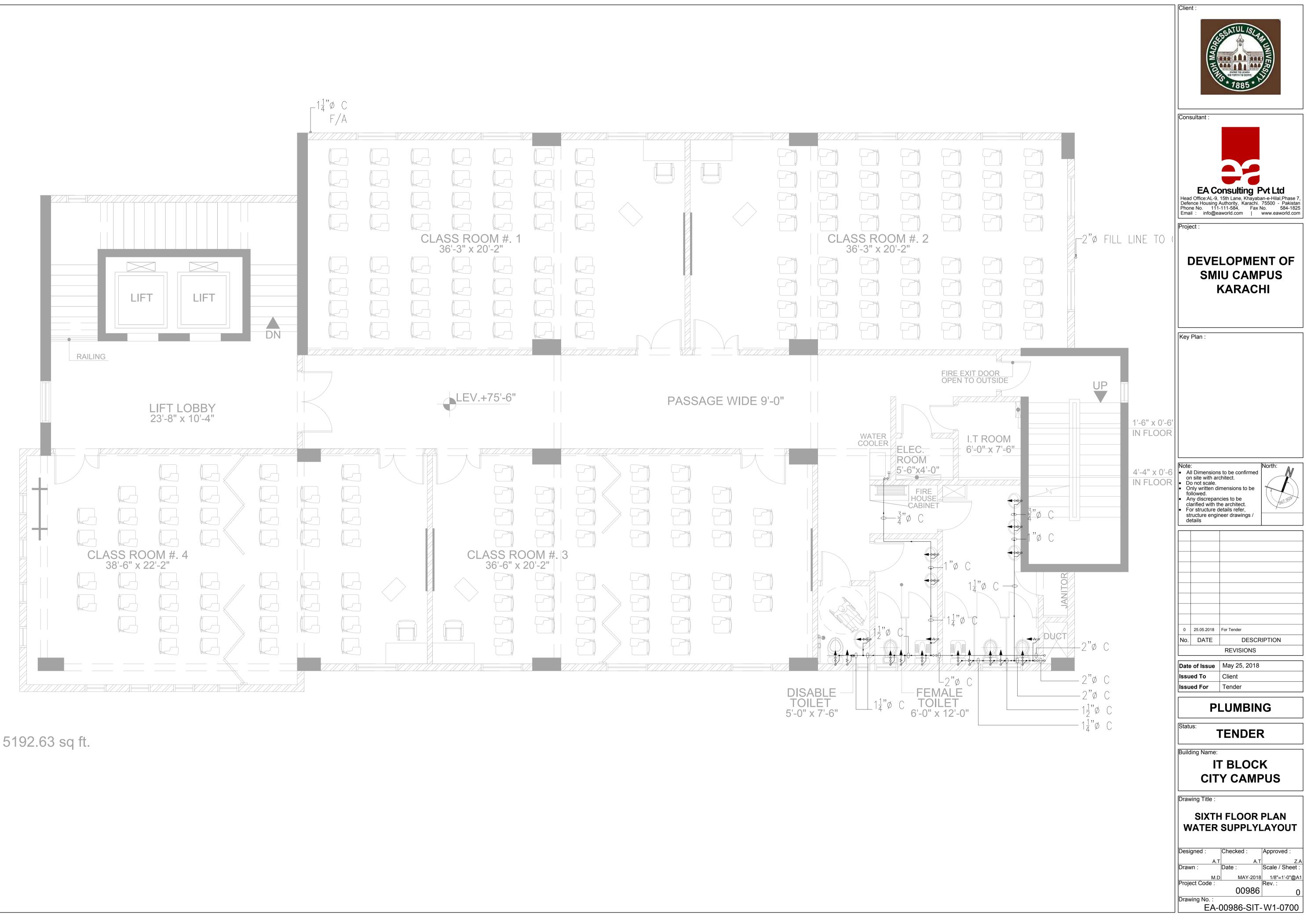


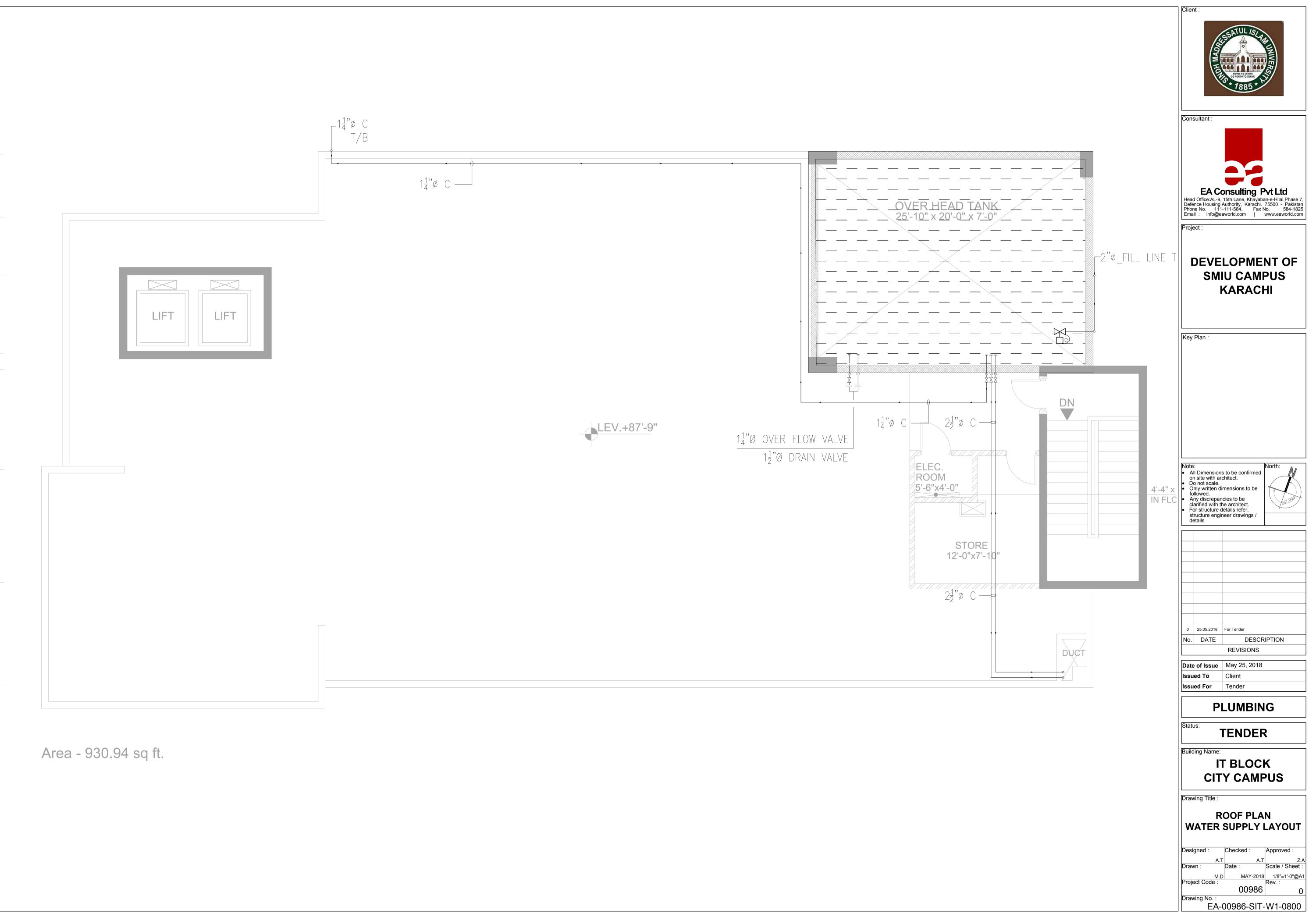


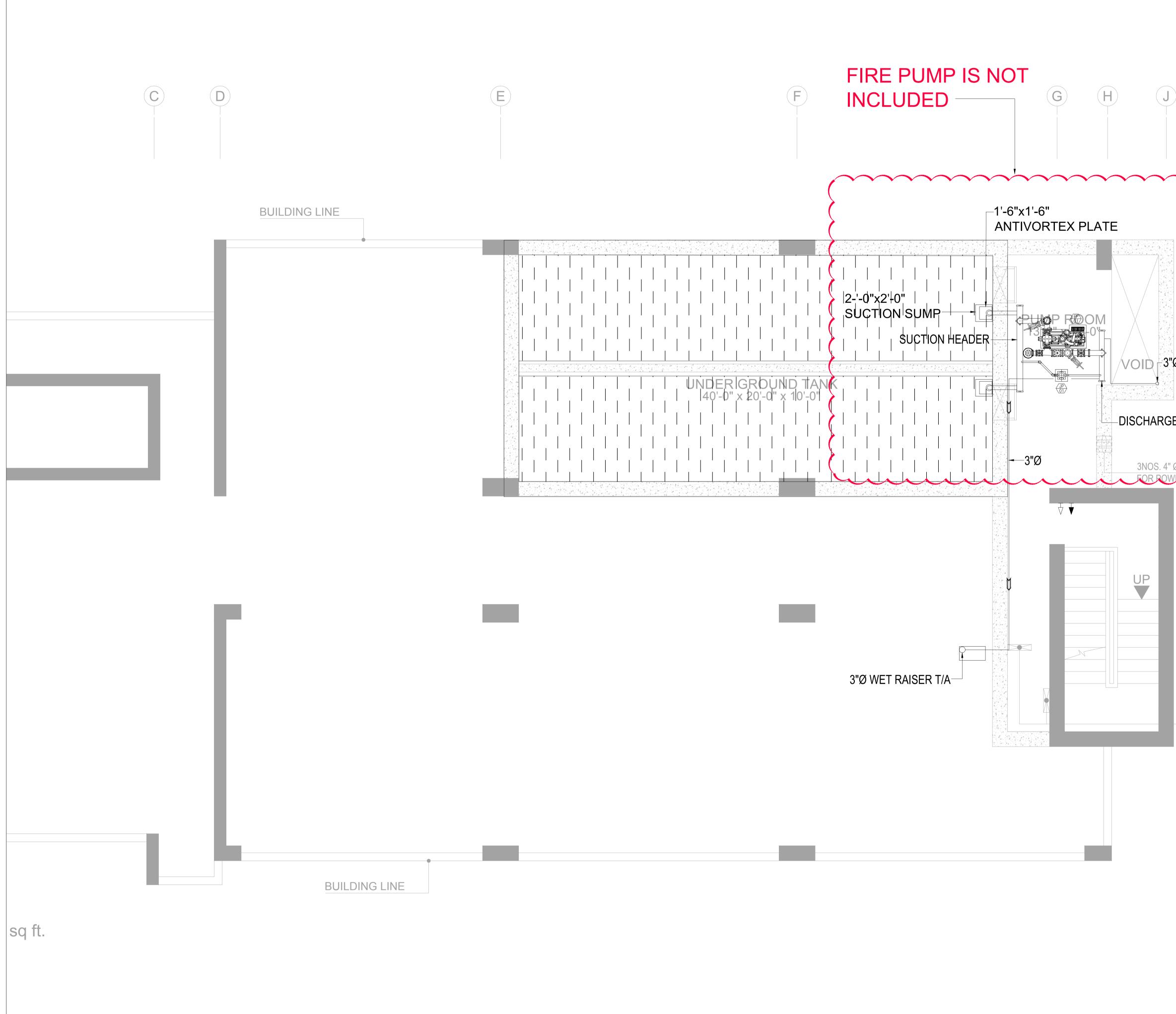




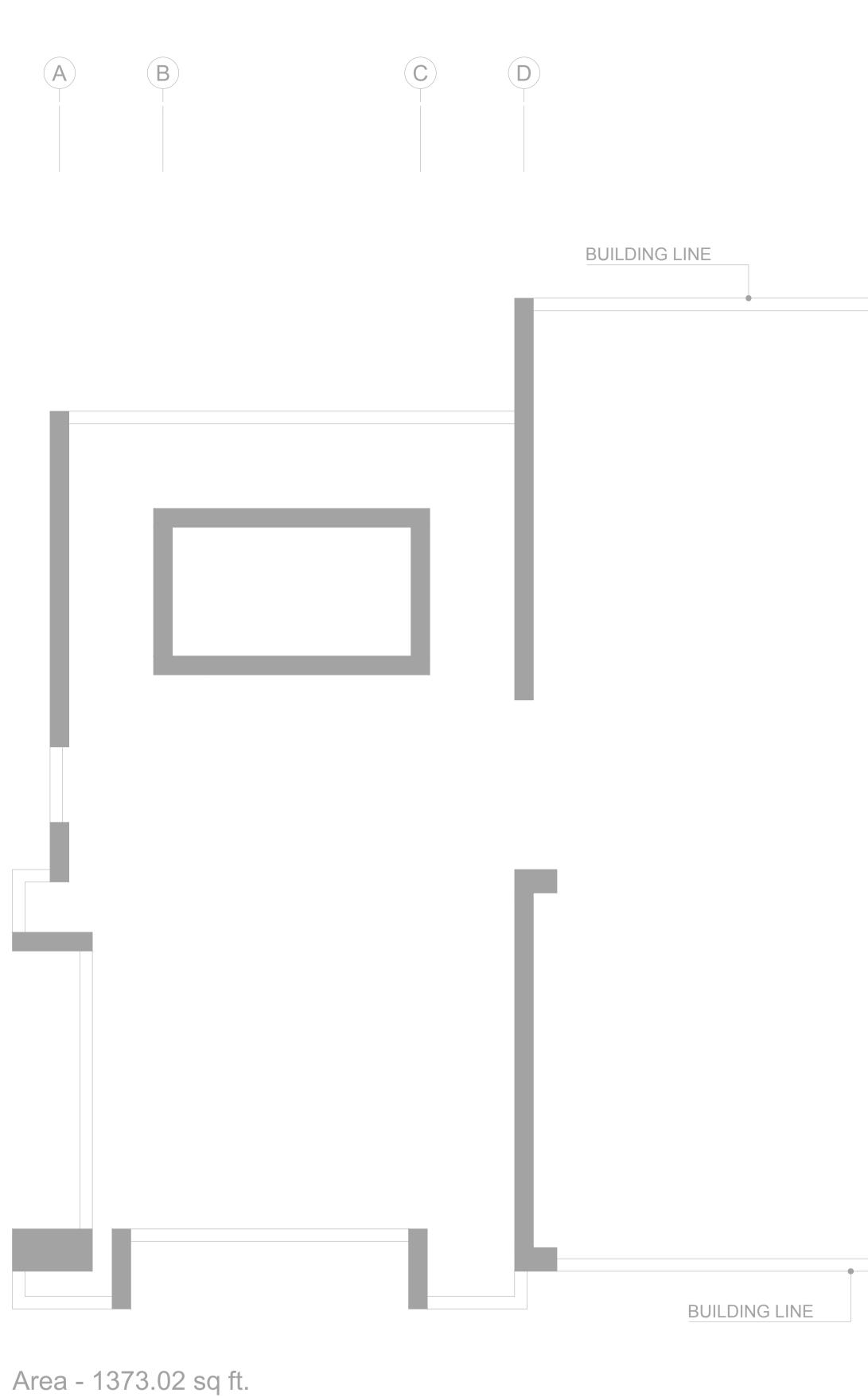


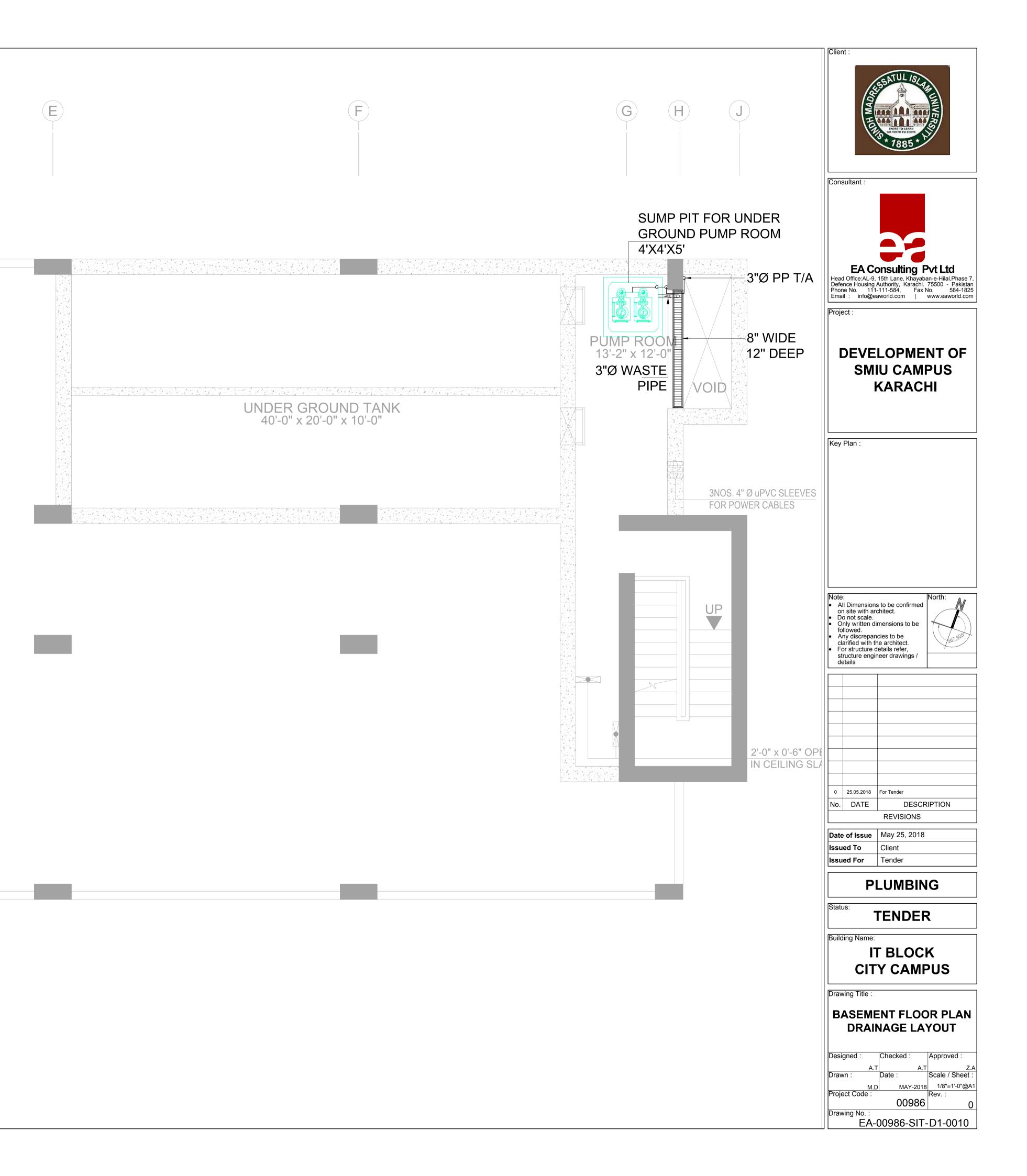


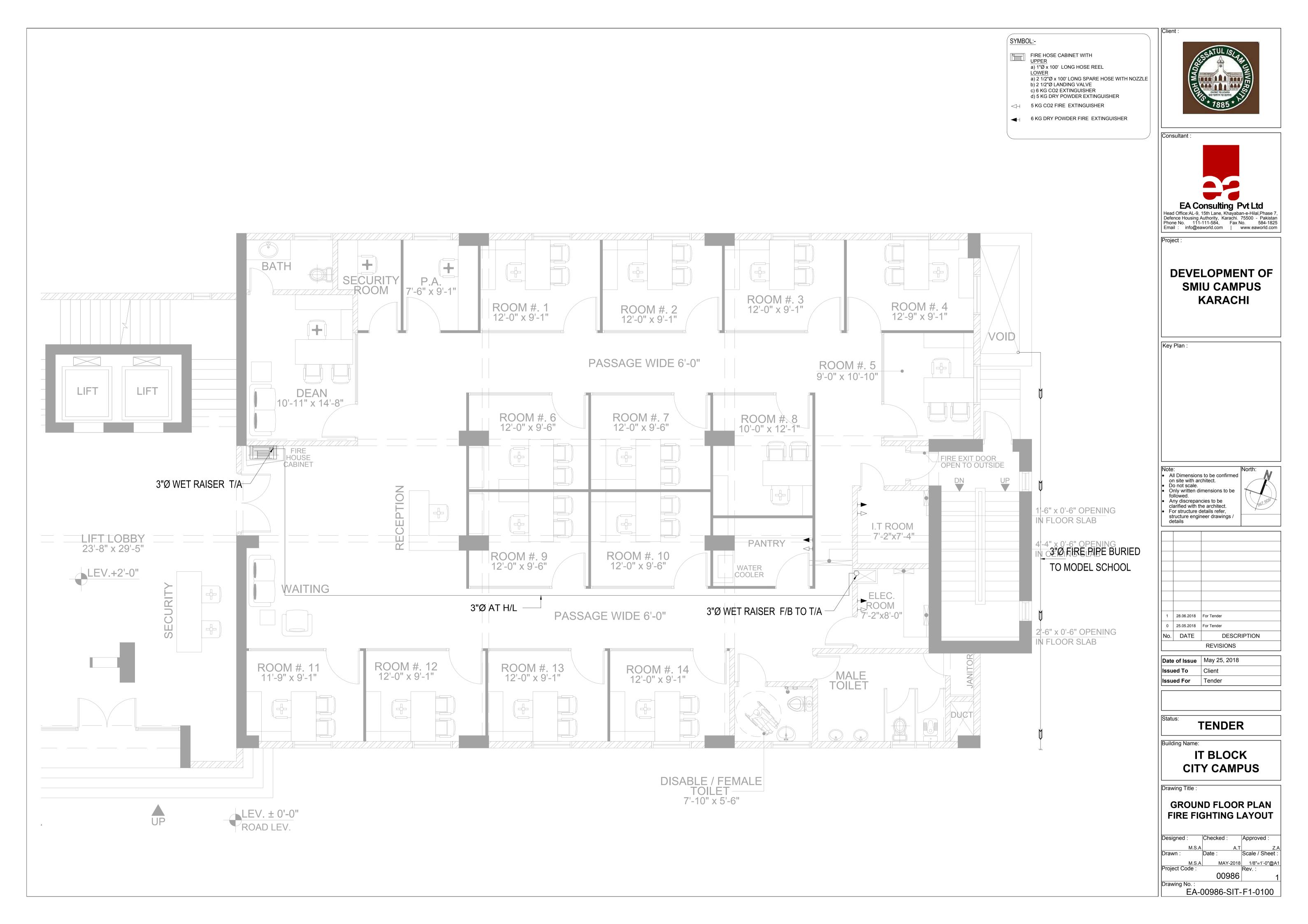


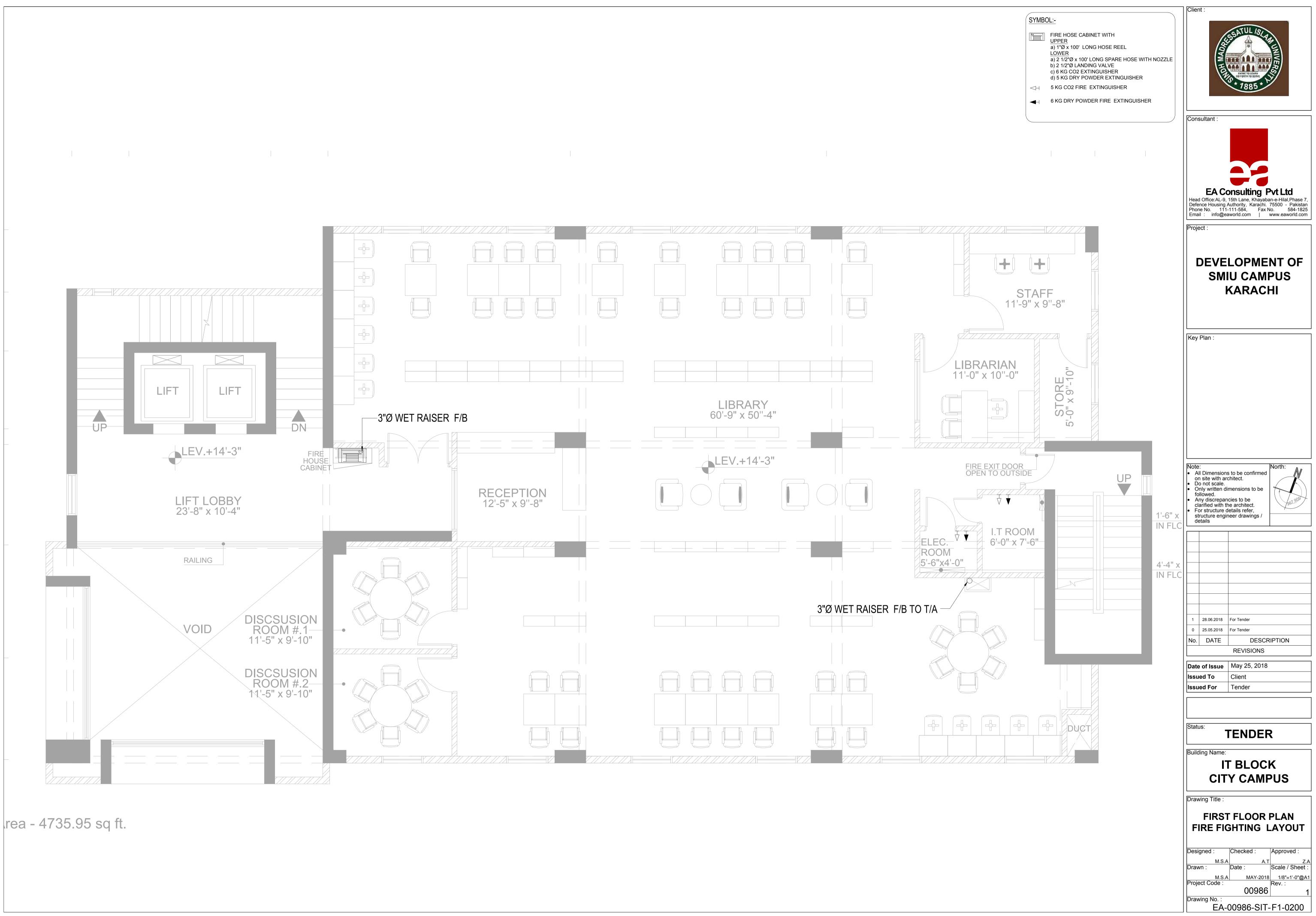


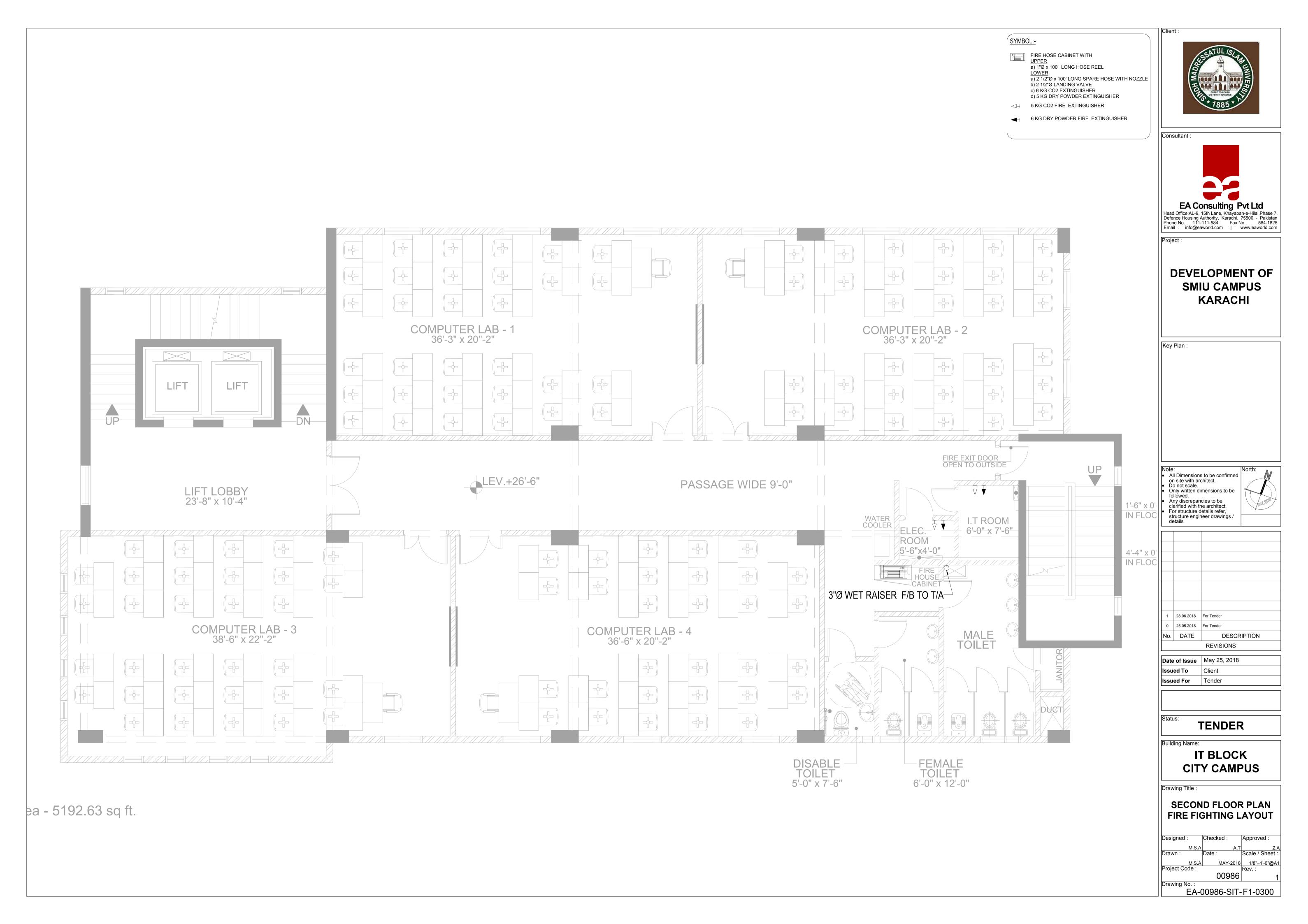
SYMBOL:-	Client :
Image: Christoper constraint Fire hose cabinet with UPPER a) 1"Ø x 100' LONG HOSE REEL LOWER a) 2 1/2"Ø x 100' LONG SPARE HOSE WITH N b) 2 1/2"Ø LANDING VALVE c) 6 KG CO2 EXTINGUISHER d) 5 KG DRY POWDER EXTINGUISHER Image: Color Constraints Image: Cons	NOZZLE
	Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
3"Ø FIRE PIPE TO MODEL SCHOOL	DEVELOPMENT OF SMIU CAMPUS KARACHI
GE HEADER	Key Plan :
4" Ø uPVC SLEEVES	
2'-0" x 0'-6" OPENING IN CEILING SLAB	Note: Noth: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings / details • • • • • • • • • • • • • • • • • • •
-	Date of IssueMay 25, 2018Issued ToClient
	Issued For Tender
	Status: TENDER
	Building Name: IT BLOCK CITY CAMPUS Drawing Title : BASEMENT FLOOR PLAN FIRE FIGHTING LAYOUT Designed : Checked : Approved : M.S.A A.T Z.A Drawn : Date : Scale / Sheet : M.S.A MAY-2018 1/8"=1'-0"@A1 Project Code : 00986 1
	Drawing No. : EA-00986-SIT-F1-0010

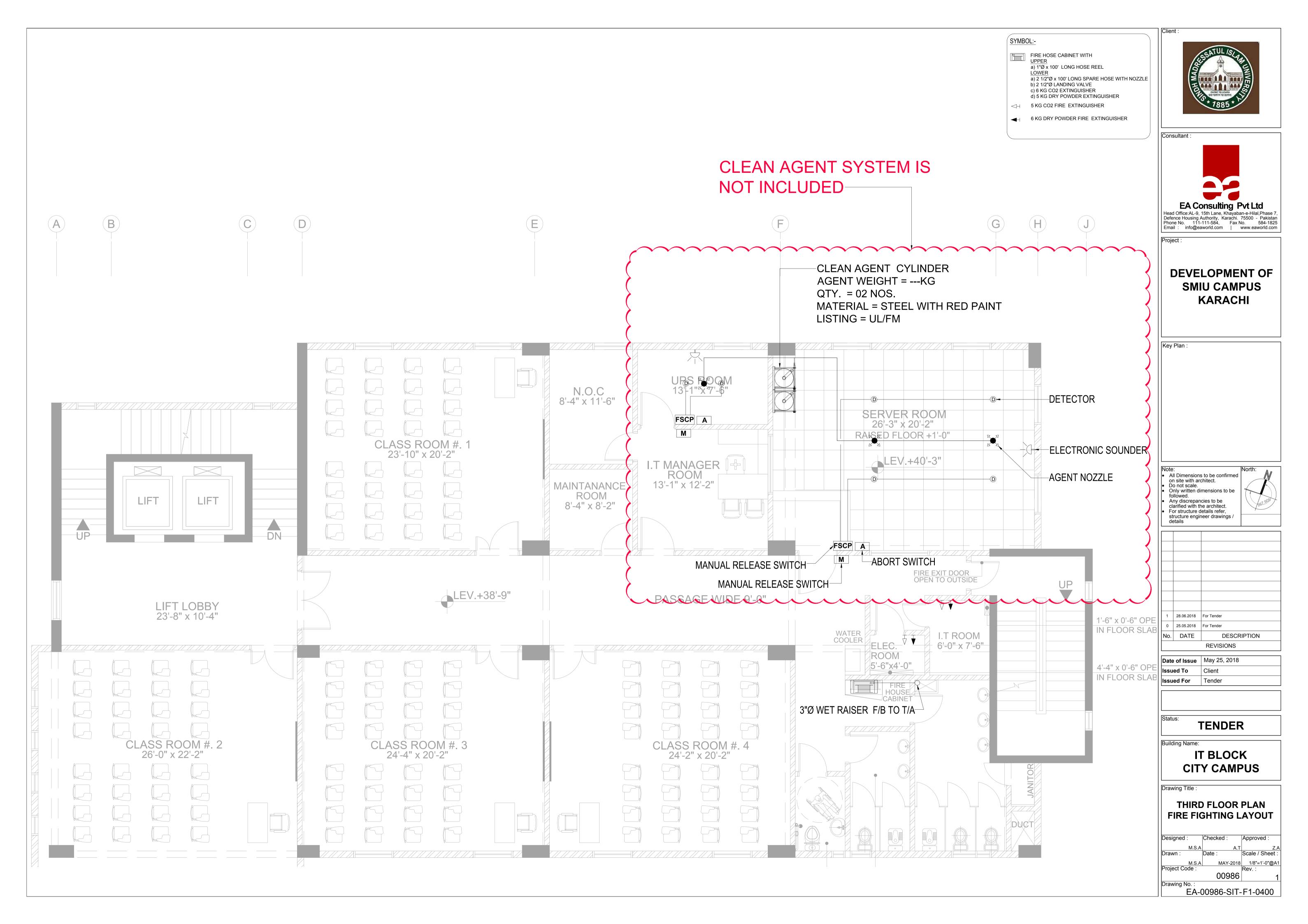


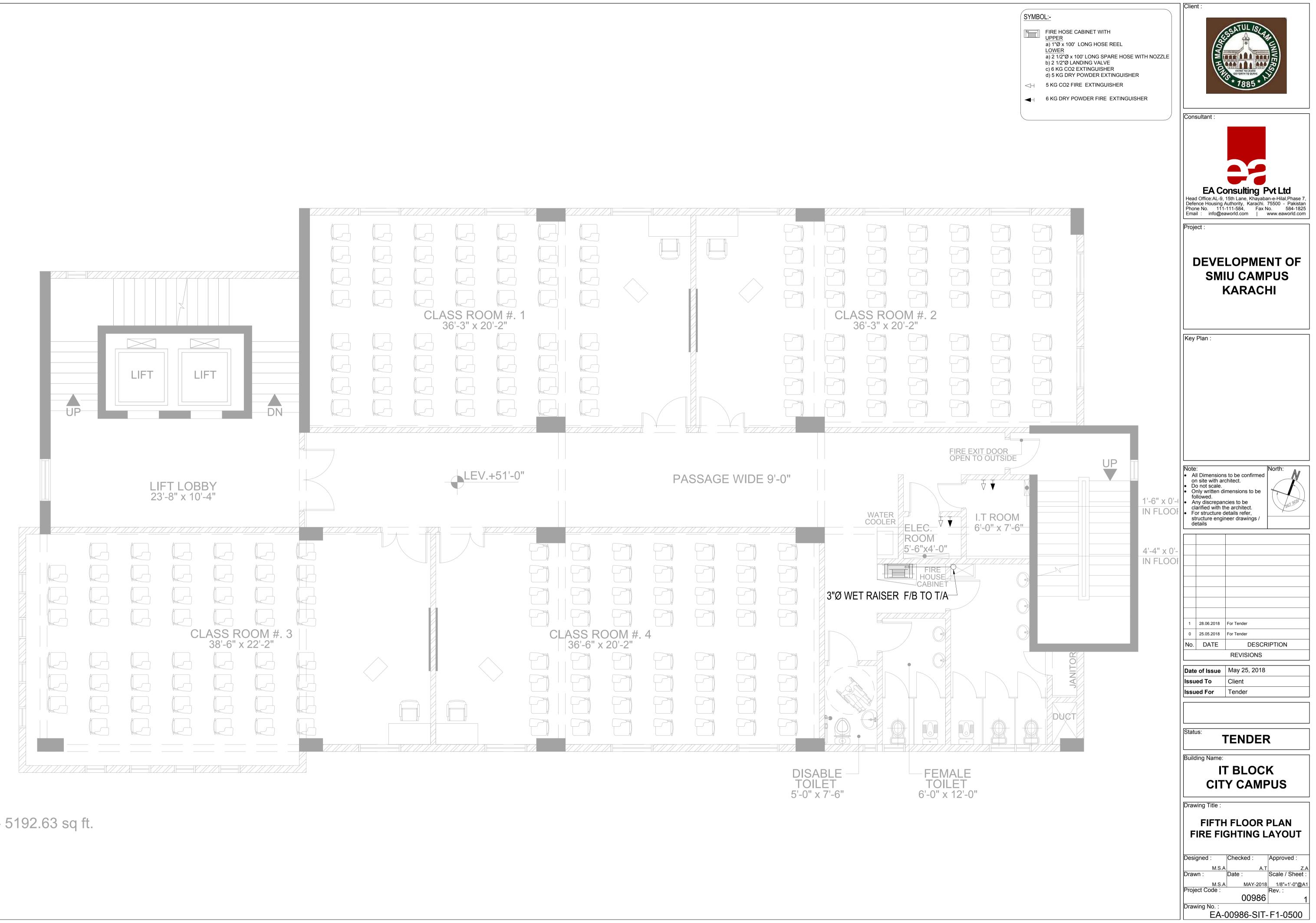


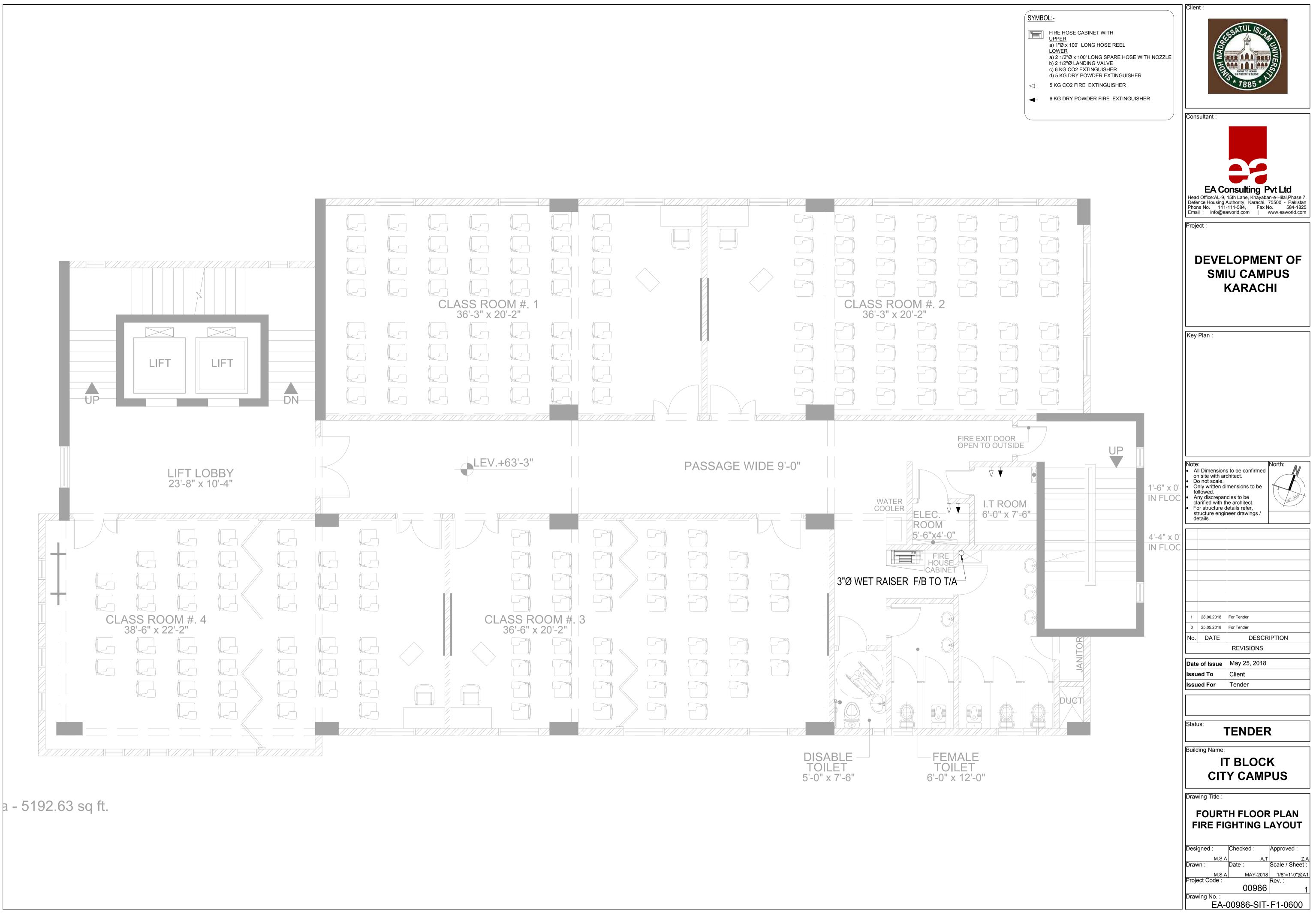


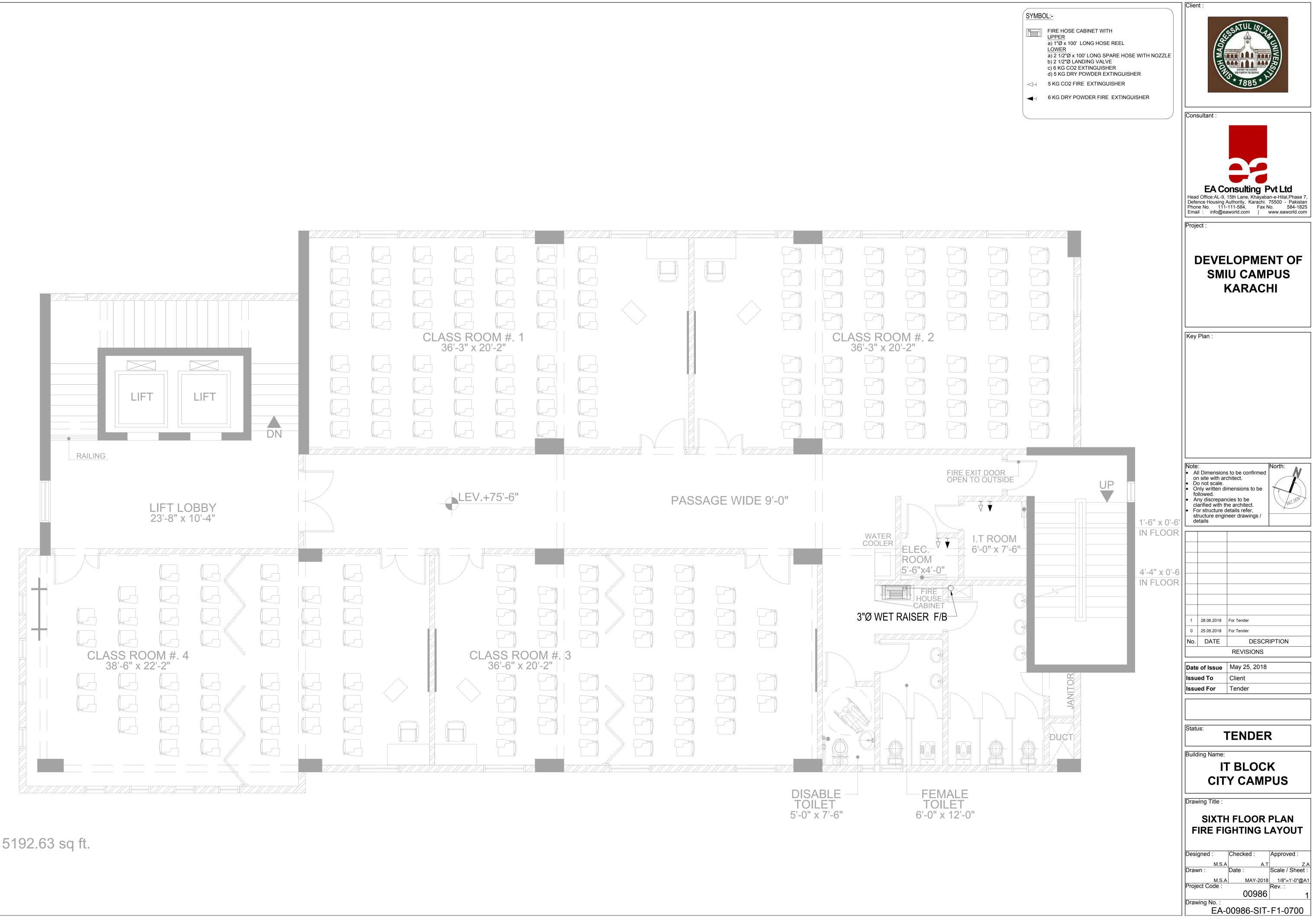


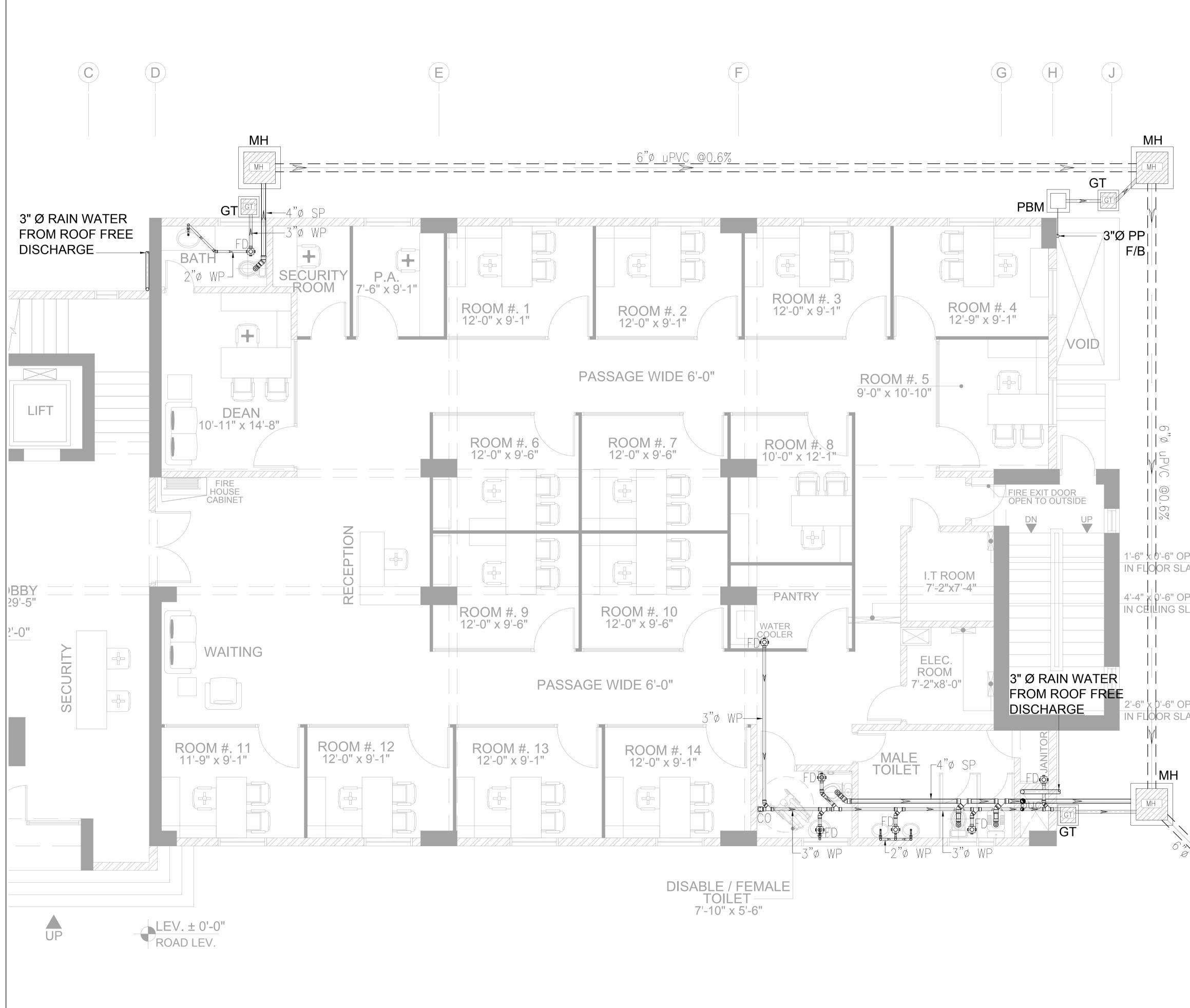




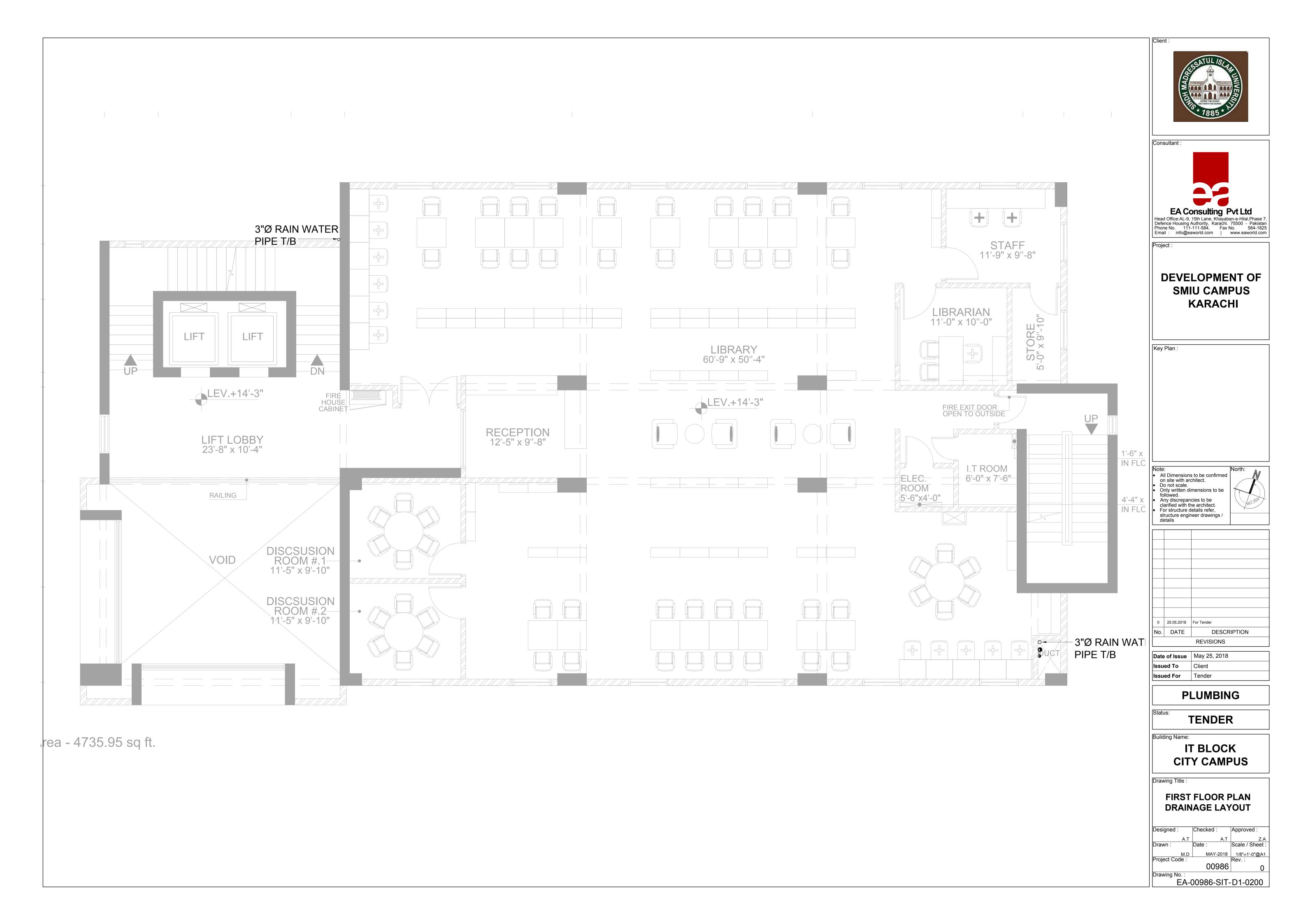




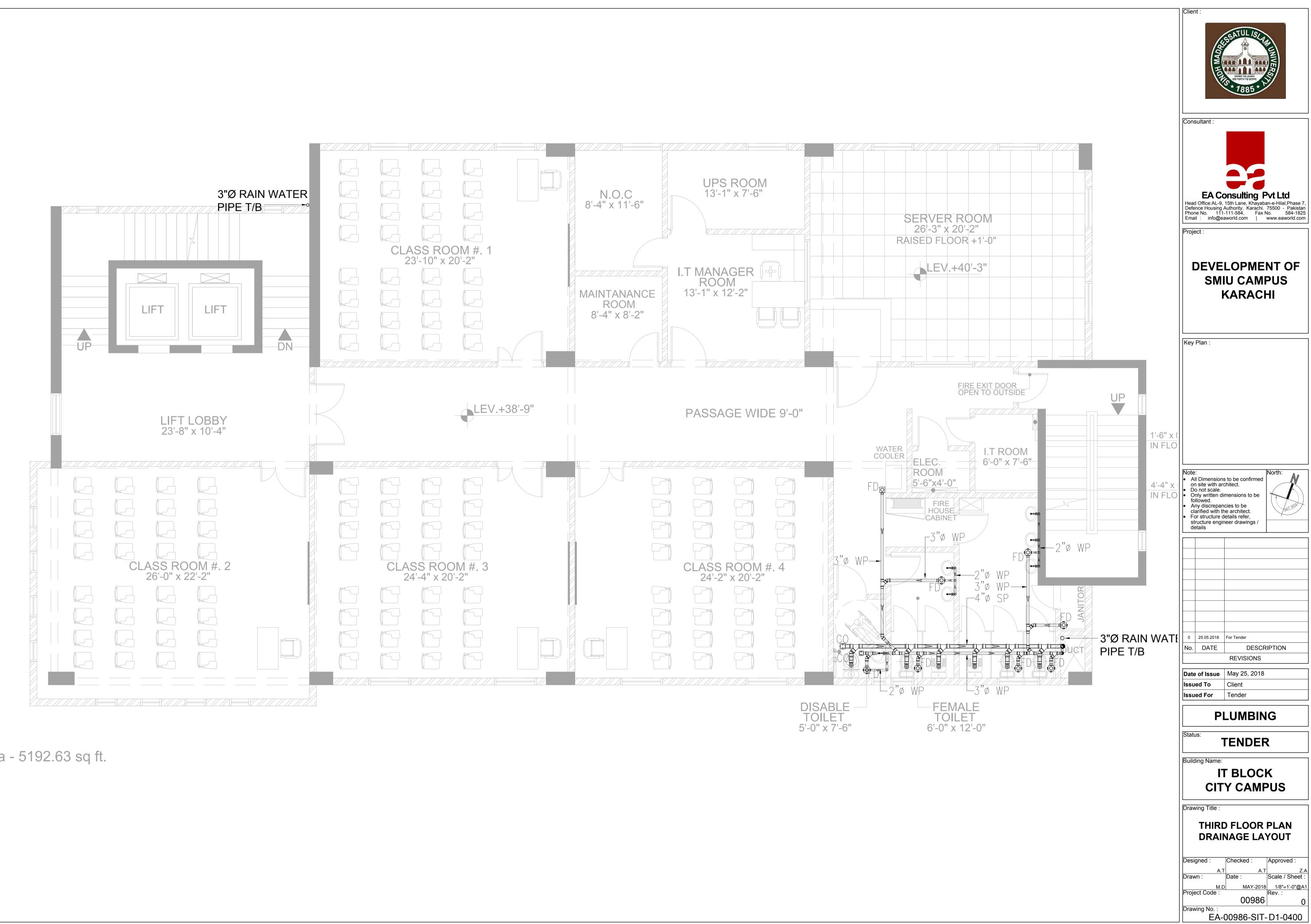


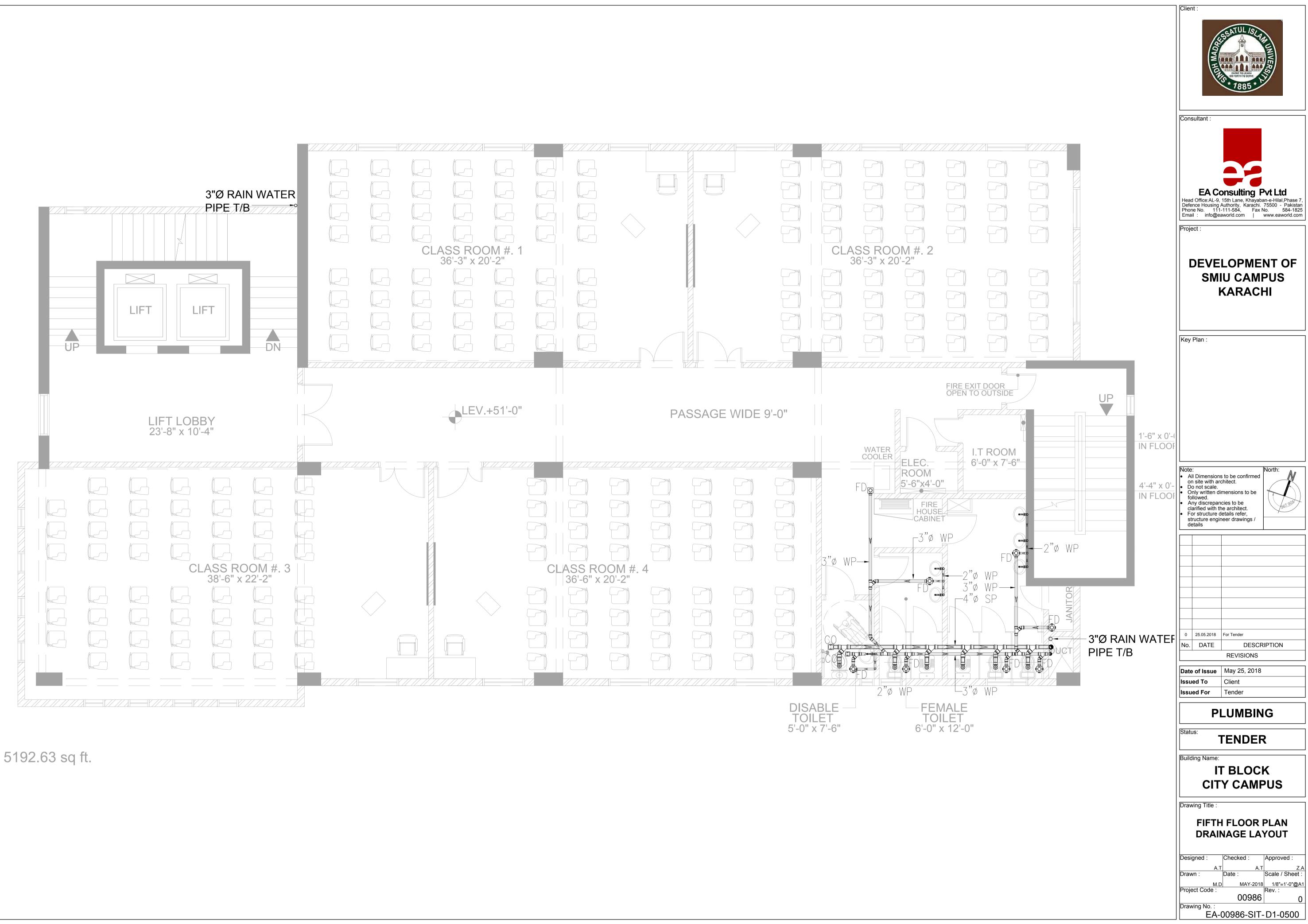


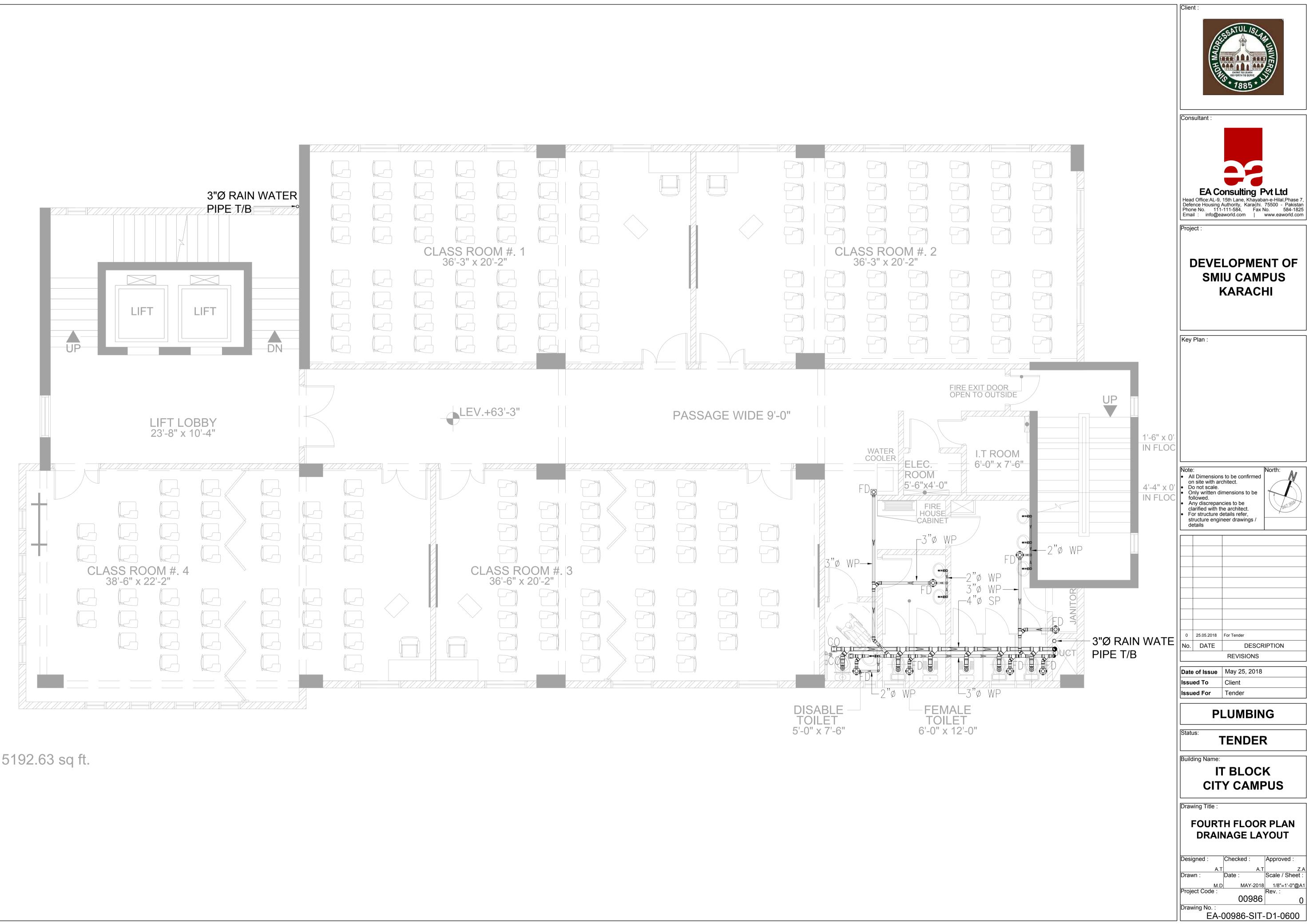
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	Head Office:AL-9, Defence Housing Phone No. 111 Email : info@e	Onsulting Pvt Ltd 15th Lane, Khayaban-e-Hilal,Phase 7, Authority, Karachi. 75500 - Pakistan 1-111-584, Fax No. 584-1825 paworld.com www.eaworld.com
	SM	LOPMENT OF IU CAMPUS KARACHI
	Key Plan :	
PENING AB	 on site with ar Do not scale. Only written d followed. Any discrepar clarified with t For structure of 	imensions to be ncies to be he architect.
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PENING AB	0 25.05.2018 No. DATE	For Tender DESCRIPTION REVISIONS May 25, 2018 Client Tender
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TO EXISTING NALA WITH A	Г	T BLOCK Y CAMPUS
BACK WATER VALVE	Drawing Title :	
O al		ND FLOOR PLAN NAGE LAYOUT
	Designed : <u>A.⁻</u> Drawn : <u>M.I</u> Project Code : Drawing No. :	Checked : Approved : T A.T Z.A Date : Scale / Sheet :

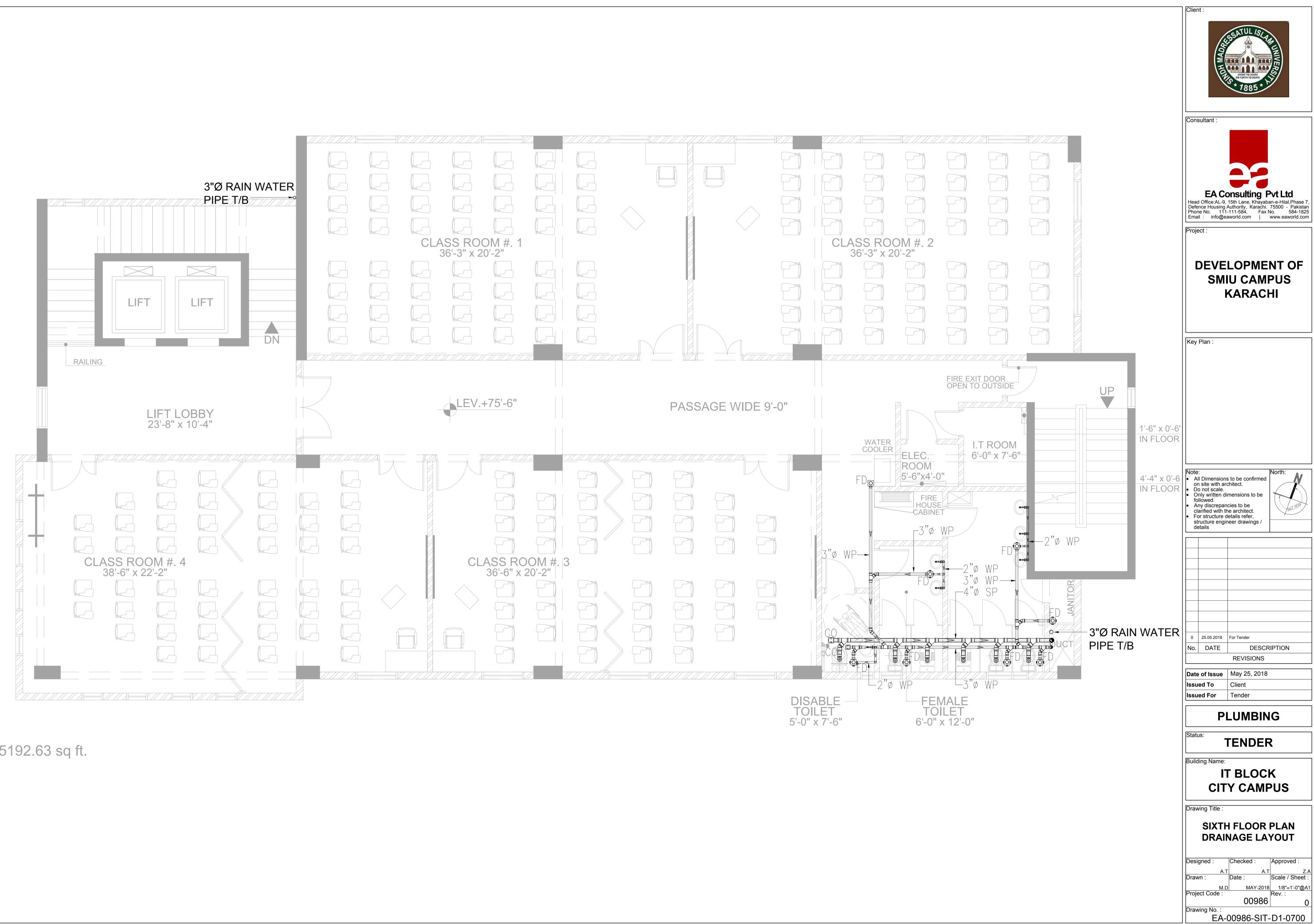


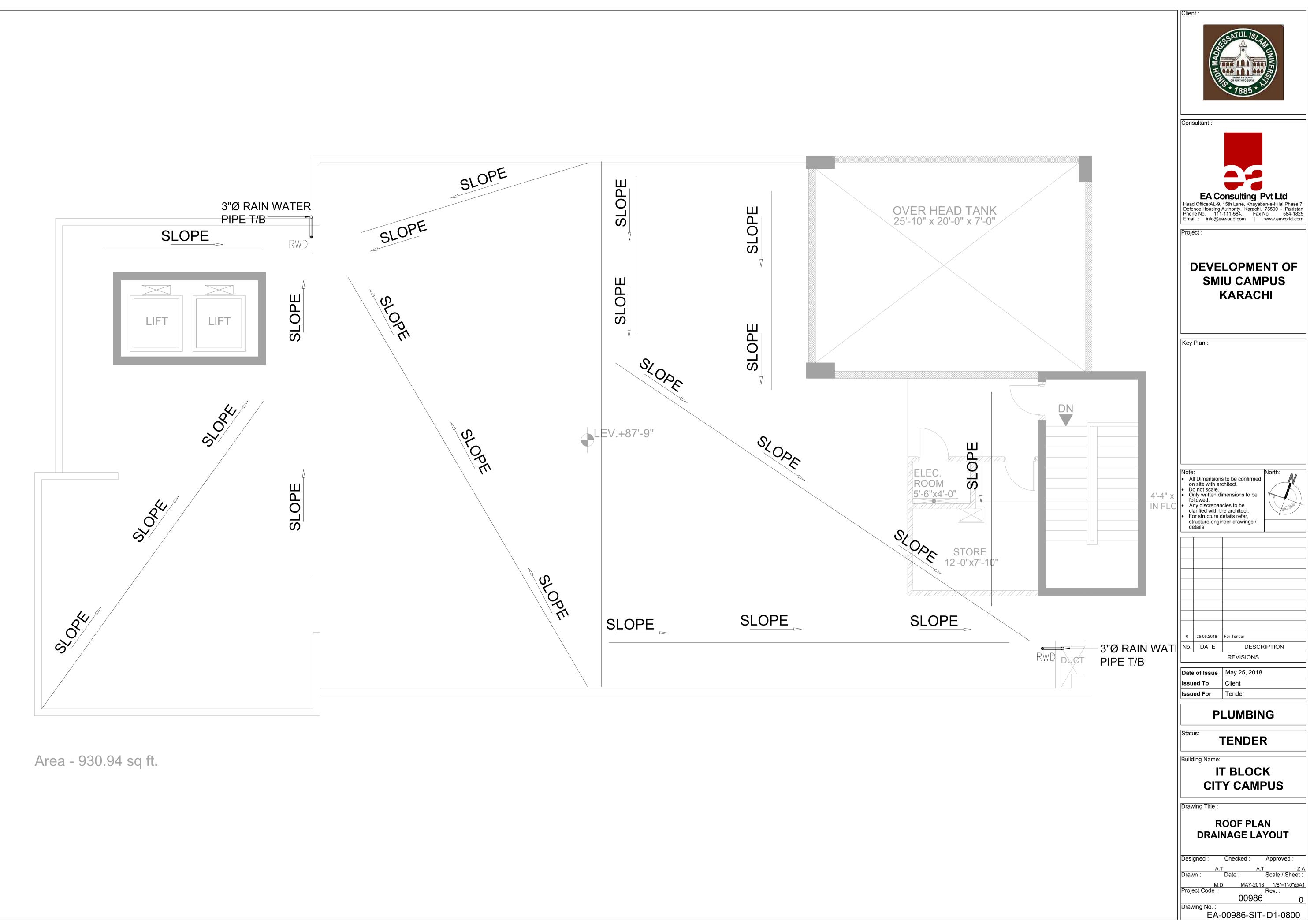












DEVELOPMENT OF SMIU CAMPUS KARACHI



TENDER DRAWINGS



IT BLOCK City Campus



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S.#	DRAWING NO.	
	E - GENERAL DRAV	VINGS
1	EA-00986-SIT-E-0000	TITLE SHEET
2	EA-00986-SIT-E-0001	LIST OF DRAWINGS
3	EA-00986-SIT-E-0002	LEGEND OF ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
4	EA-00986-SIT-E-0003	ELECTRICAL STANDARD DETAIL (SHEET 1 OF 2)
5	EA-00986-SIT-E-0004	ELECTRICAL STANDARD DETAIL (SHEET 2 OF 2)
6	EA-00986-SIT-E-0005	ELECTRICAL DISTRIBUTION SCHEMATIC DIAGRAM SHEET-1
7	EA-00986-SIT-E-0006	ELECTRICAL DISTRIBUTION SCHEMATIC DIAGRAM SHEET-2
8		
	EL - LIGHTING LAY	OUT PLANS
1	EA-00986-SIT-EL-0100	BASEMENT & GROUND FLOOR PLAN LIGHTING LAYOUT
2	EA-00986-SIT-EL-0200	FIRST FLOOR PLAN LIGHTING LAYOUT
3	EA-00986-SIT-EL-0300	SECOND FLOOR PLAN LIGHTING LAYOUT
4	EA-00986-SIT-EL-0400	THIRD FLOOR PLAN LIGHTING LAYOUT
5	EA-00986-SIT-EL-0500	FOURTH FLOOR PLAN LIGHTING LAYOUT
6	EA-00986-SIT-EL-0600	FIFTH FLOOR PLAN LIGHTING LAYOUT
7	EA-00986-SIT-EL-0700	SIXTH FLOOR PLAN LIGHTING LAYOUT
8	EA-00986-SIT-EL-0800	ROOF PLAN LIGHTING LAYOUT
	EP - POWER LAYO	JT PLANS
1	EA-00986-SIT-EP-0001	SITE PLAN & ELECTRICAL LAYOUT
2	EA-00986-SIT-EP-0010	BASEMENT PLAN POWER LAYOUT
3	EA-00986-SIT-EP-0100	GROUND FLOOR PLAN POWER LAYOUT
4	EA-00986-SIT-EP-0200	FIRST FLOOR PLAN POWER LAYOUT
5	EA-00986-SIT-EP-0300	SECOND FLOOR PLAN POWER LAYOUT
6	EA-00986-SIT-EP-0400	THIRD FLOOR PLAN POWER LAYOUT
7	EA-00986-SIT-EP-0500	FOURTH FLOOR PLAN POWER LAYOUT
8	EA-00986-SIT-EP-0600	FIFTH FLOOR PLAN POWER LAYOUT
9	EA-00986-SIT-EP-0700	SIXTH FLOOR PLAN POWER LAYOUT
10	EA-00986-SIT-EP-0800	ROOF PLAN POWER & LIGHTNING PROTECTION SYSTEM LAYOUT

FA -FA, PA & EM LIC EA-00986-SIT-FA-0010 EA-00986-SIT-FA-0100 EA-00986-SIT-FA-0200 EA-00986-SIT-FA-0300 EA-00986-SIT-FA-0400 EA-00986-SIT-FA-0500 EA-00986-SIT-FA-0500 EA-00986-SIT-FA-0700	HTING SYSTEMS LAYOUT PLANS BASEMENT PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT GROUND FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT FIRST FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT SECOND FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT THIRD FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT FOURTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT FOURTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT FIFTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT
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EA-00986-SIT-FA-0200 EA-00986-SIT-FA-0300 EA-00986-SIT-FA-0400 EA-00986-SIT-FA-0500 EA-00986-SIT-FA-0600	FIRST FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT L SECOND FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT THIRD FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT FOURTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT
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EA-00986-SIT-FA-0700	
	SIXTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT L
EA-00986-SIT-FA-0800	ROOF PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT LAYOUT
EA-00986-SIT-FA-0900	FIRE ALARM SYSTEM SINGLE LINE DIAGRAM
EA-00986-SIT-FA-1000	FIRE ALARM STANDARD DETAILS
EA-00986-SIT-PA-0100	PA / VA RACK SINGLE LINE DIAGRAM
T - COMMUNICATIO	ON & SECURITY SYSTEM LAYOUT PLANS
EA-00986-SIT-IT-0001	SITE PLAN I.T INFRASTRUCTURE LAYOUT PLAN
EA-00986-SIT-IT-0100	GROUND FLOOR PLAN COMMUNICATION & SECURITY SYSTEM
EA-00986-SIT-IT-0200	FIRST FLOOR PLAN COMMUNICATION & SECURITY SYSTEM LAY
EA-00986-SIT-IT-0300	SECOND FLOOR PLAN COMMUNICATION & SECURITY SYSTEM L
EA-00986-SIT-IT-0400	THIRD FLOOR PLAN COMMUNICATION & SECURITY SYSTEM LAY
EA-00986-SIT-IT-0500	FOURTH FLOOR PLAN COMMUNICATION & SECURITY SYSTEM L
EA-00986-SIT-IT-0600	FIFTH FLOOR PLAN COMMUNICATION & SECURITY SYSTEM LAY
EA-00986-SIT-IT-0700	SIXTH FLOOR PLAN COMMUNICATION & SECURITY SYSTEM LAY
EA-00986-SIT-IT-0800	COMMUNICATION SYSTEM SCHEMATIC DIAGRAM
EA-00986-SIT-IT-0900	SECURITY SYSTEM SCHEMATIC DIAGRAM
	EA-00986-SIT-FA-0900 EA-00986-SIT-FA-1000 EA-00986-SIT-PA-0100 IT - COMMUNICATIC EA-00986-SIT-IT-0001 EA-00986-SIT-IT-0100 EA-00986-SIT-IT-0200 EA-00986-SIT-IT-0300 EA-00986-SIT-IT-0500 EA-00986-SIT-IT-0500 EA-00986-SIT-IT-0700 EA-00986-SIT-IT-0700 EA-00986-SIT-IT-0800

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LEGEND FOR LIGHTING

EGEND F	OR LIGHTING				LEGEND F	FOR PO	OWER	SYSTE	М
SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTING	SYMBOL		DESCR	IPTION	
⊕ D1	OOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE			GANG SWITCHE AT HIGH LEVEL		TLET
⊕ D2	OWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED	۵	13A 3 PIN M	ULTI STANDAR	D SWITCHED S	OCKET
© D3	OOWNLIGHT FIXTURE (IP-44)	10W LED	1000 l m	CEILING	۵		ULTI STANDAR ABOVE COUNT		OCKET
-	OWNLIGHT FIXTURE (IP-44)		1000 Lm	RECESSED	6	13A 3 PIN M (MOUNTED	ULTI STANDAR ON FLOOR)	D SWITCHED S	OCKET
®04 ⊑	OWNLIGHT FIXTURE (IP-20)	10W LED	1000 Lm	RECESSED	B	13A 3 PIN F	LAT 2-GANG SV	WITCHED SOCK	
⊕ D5 C	OWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED		13A 3 PIN F	LAT 1-GANG UN	SWITCHED SC	CKET OL
@D6 [OWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE	6	15A 3 PIN 1-	GANG SWITCH	ED SOCKET OU	JTLET
O D7 C	OWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE		16A 3 PIN IN	IDUSTRIAL SO	СКЕТ	
	' LONG BATTEN LIGHT IXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	_				
F2 2	L' LONG BATTEN LIGHT	20W LED	1900 Lm	CEILING SURFACE	1 No 13A 3 PIN MULTI STANDAR 1 No 13A 3 PIN FLAT 2-GANG SV 1 No DUAL RJ-45 OUTLET FOR N		IG SWITCHED	SOCKET	
⊢© w1 V	VALL LIGHT FIXTURE (IP-54)	2x5W LEE		WALL	6	10A 1-GANG	S SWITCH		
	BULKHEAD LIGHT FIXTURE	10W LED		WALL	2	TPN ISOLAT	OR		
	(IP-54) CEILING FAN 48''			CEILING		DISTRIBUTI	ON BOARD (DB	3)	
				SURFACE			DISTRIBUTION	BOARD (SMDB)	
	CEILING FAN 56"			SURFACE				RD (MDB)	
	CEILING FAN 24" x 24"			RECESSED	X	EMERGENC	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)		
⊕ E	EXHAUST FAN (BY OTHERS)			WALL	Ø	POWER MA	NHOLE		
					۲	EARTH PIT	FOR POWER		
OTES;- 1. A	LL FINISHES OF LIGHT FIXTURI EMPERATURE OF LAMPS SHAL	ES AND COL	OUR CT		👿 LP	EARTH PIT	FOR LIGHTNING	G PROTECTION	
T	D ARCHITECT'S APPROVAL				<u>~ ~</u>	EARTH BAF	R WITH SINGLE	DISCONNECTI	NG LINK
SWITCHE SYMBOL	25 DESCRIPTIO	N			- = 55-V	SELECTOR	SWITCH / VOLT	METER	
J NS	LIGHTING CONTROL SW			e a a a a a a a a a a a a a a a a a a a	AMPERE METER				
	FAN DIMMER (N GANG)				 ®\@	PHASE INDICATION LAMPS (R,Y,B)			
8		TWO WAY LIGHTING CONTROL SWITCH			NON FERROUS CABLE GLAND PLATE				
0					- FUSE				
					×	SINGLE PO		CIRCUIT BREA	KER (MCI
EGEND	FOR LIGHTN	NG P	ROTEC			TRIPPLE PC		CASE CIRCUIT	BREAKE
SYMBOLS						SURGE PROTECTION DEVICE TYPE II			
•	TAPER POINTED COPPER AIR TERMINAL WITH BASE BARE COPPER		RMINAL 500mm L	ONG 15mmØ	EA		ENERGY ANALYZER		
DN	DOWN CONDUCTOR 70sqmm			G	DIESEL GENERATOR SET				
۲	CONDUCTOR CLAMPS				LERATOR SET				
	■ 25mmx3mm LIGHTN	25mmx3mm LIGHTNING PROTECTION COPPER STRIP			MINIMUM				
					SIZES SHA	ALL BE			ED I
					CABLE SIZE	20mm Ø	25mm Ø	32mm Ø	29m
	FAND HOME F	RUNS			CONDUCTOR SIZE	20111111120		JM No. OF CA	38mi BLES
SYMBOL		DESCF	RIPTION		2.5 mm ²	5	10	-	-
	- CONDUIT CONCEALED IN	I FLOOR			4.0 mm ² 6.0 mm ²	4	5		
	- CONDUIT CONCEALED IN	CEILING (SI	.AB) OR WALL		10.0 mm ²	2	3	5	-
				:1,Y1,B1)	16.0 mm ²	-	2	4	5
(DB-N, EDE	INDICATES REFERENCE	CIRCUIT.			25.0 mm ²	-	-	3	4
									1

LEGEND FOR IT SYSTEM CRIPTION CHED SOCKET OUTLET ARD SWITCHED SOCKET OUTLET DARD SWITCHED SOCKET OUTLET ARD SWITCHED SOCKET OUTLET SWITCHED SOCKET OUTLET UNSWITCHED SOCKET OUTLET CHED SOCKET OUTLET SOCKET 30X: TANDARD SWITCHED SOCKET OUTLET 3ANG SWITCHED SOCKET OUTLET ET FOR VOICE & DATA DB) N BOARD (SMDB) ARD (MDB) RIBUTION BOARD (EMDB) ING PROTECTION LE DISCONNECTING LINK OLTMETER IPS (R,Y,B) GLAND PLATE RE CIRCUIT BREAKER (MCB) ED CASE CIRCUIT BREAKER (MCCB) EVICE TYPE II ENT OF CONDUIT ABULATED BELOW: CONDUIT SIZE 32mm Ø 38mm Ø 50mm Ø

2

35.0 mm²

50.0 mm²

5

4

3

5

4

SYMBOL	DESCRIPTION
\bigtriangledown	SINGLE RJ45 OUTLET FOR VOICE (11-6" ATFL)
•	SINGLE RJ45 OUTLET FOR DATA (1'-6" ATFL)
Ŵ	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
P	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
TVV	TELEVISION POINT @ (4'-8" ATFL)
	FLOOR DISTRIBUTION BOX: 1 No RJ45 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 13A UNIVERSAL SOCKET OUTLET
42U	42U TELECOM RACK (FLOOR STANDING)
12U	12U TELECOM RACK (WALL MOUNTED) (4'-8" ATFL)
MTJB	MAIN TELEPHONE JUNCTION BOX (4-8" ATFL)
TJB	TELEPHONE JUNCTION BOX (4'-8" ATFL)
Ø	MANHOLE FOR TELECOM (2'-0"x2'-0")
	CCTV FIXED CAMERA TYPE (WALL MOUNTED) (7-0" ATFL)
¢	SPLITTER (SURFACE MOUNTED)
ACS	ACCESS CONTROL PANEL (2 DOOR)
CR	PROXIMATELY CARD READER (4'-8" ATFL)
۲	DOOR LOCK UNIT (ABOVE THE DOOR)
(PB)	PUSH BUTTON (4'-8" ATFL)

LEGEND FOR FA, PA & EM LIGHTING SYSTEMS

SYMBOL	DESCRIPTION
۲	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
Ø	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
8	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR WITH SOUNDER
≚	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
ì	WALL SOUNDER WITH FLASHER / STROBE
٠	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
IF ▼	FOR PUMP
69	CEILING SPEAKER (6W) FOR PA SYSTEM
Æ	PUBLIC ADDRESS SPEAKER WALL MOUNTED
Ŀ	GOOSENECK MICROPHONE
PA	PA RACK
	MIXER AMPLIFIER
EM	EMERGENCY LIGHT (CEILING / RECESSED) 1x8W (IP20 LED LAMP)
[EM]	EMERGENCY LIGHT (CEILING / RECESSED) 1x8W (IP65 LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP20 LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE

GENERAL NOTES

- 1- THE FOLLOWING NOTES SHALL APPLY TO ALL OTHERWISE INDICATED OR NOTED. .2- DO NOT SCALE FROM THE LAYOUT DWGS. WO ELECTRICAL DETAILS, UNLESS OTHERWISE IN
- .3- THE ELECTRICAL DRAWINGS SHALL BE READ DRAWINGS PERTAINING TO ARCHITECTURE, S AND AS PER SPECIFICATIONS.
- 2.1- UNLESS OTHERWISE INDICATED ALL CONDUI RIGID NON-METALIC PVC. CONDUITS.
- 2.2- ALL EXPOSED CONDUITS SHALL BE RIGID GA DIRECTED BY THE ENGINEER.
- 2.3- EARTH CONTINUITY SHALL BE IN ACCORDAN
- REGULATIONS AND AS PER SPECIFICATION. 2.4- LIGHTING OUTLETS SHALL BE EXPOSED OR C ASSOCIATED CONDUITS, UNLESS OTHERWISE DIF 2.5- SHAPE AND DIMENSION OF SYMBOLIZED LIGH
- REPRESENT SHAPE AND DIMENSIONS OF ACT FOR THIS PURPOSE.
- 2.6- FOR EMERGENCY LIGHTING SELF CONTAIN L DB CIRCUIT.

3.1- MOUNTING HEIGHTS OF SOCKET OUTLETS, SV ELECTRICAL STANDARD DETAIL DRAWING OF

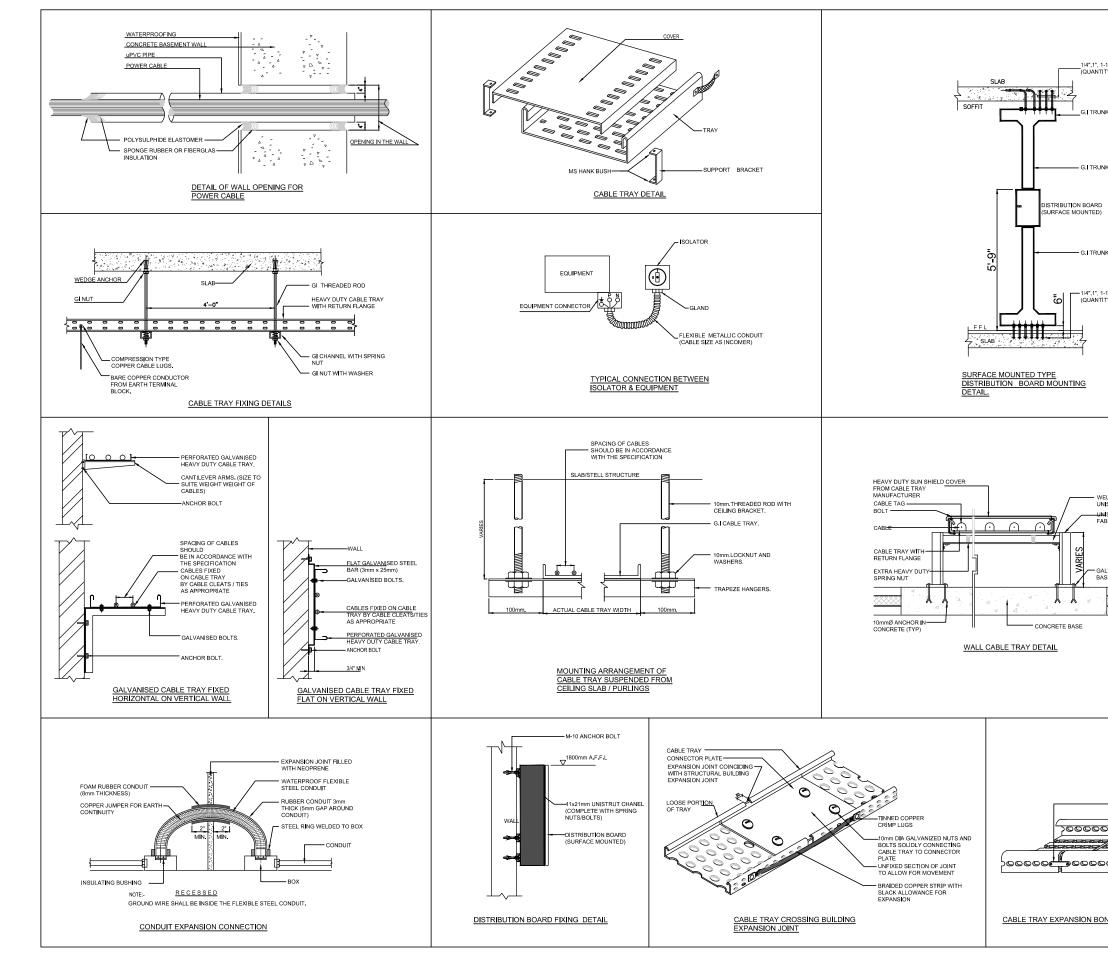
- 4.1- THE MINIMUM CONDUIT SIZE USED SHALL BE 4.2- CONTRACTOR SHALL PROVIDE THE REQUIRE FOR THE EASE OF PULLING OF CABLES. 4.3- ALL OPENINGS, SLEEVES AND SHAFTS BETWI
- CURRENT CABLES SHALL BE SEALED WITH F
- PLATE TO THE APPROVAL OF ENGINEER.
- 4.4- ALL BREAKERS PROTECTING MOTORS SHALL 4.5- CONTRACTOR SHALL PROVIDE EMPTY CONDU
- SERVING ALL MECHANICAL. EQUIPMENT, A/C MECHANICAL SERVICES, REQUIREMENTS. 4.6- FOR ELV & IT SYSTEM MINIMUM CONDUIT SIZE

	/IATION
WP	WEATHER PROOF
DN	DOWN CONDUIT
UP	UP CONDUIT
CFL	COMPACT FLUORESCENT LAMP
HDGI	HOT DIP GALVANIZED IRON
CWTP	COLD WATER TRANSFER PUMP
SP	SUMP PUMP
I.P	IRRIGATION PUMP
F.P	FIRE PUMP
J.P	JOCKEY PUMP
SF	SUPPLY FAN
EF	EXHAUST FAN
CL	CONNECTED LOAD
DL	DEMAND LOAD
DDL	DIVERSIFIED DEMAND LOAD
TCL	TOTAL CONNECTED LOAD
TDL	TOTAL DEMAND LOAD
TDDL	TOTAL DIVERSIFIED DEMAND LC

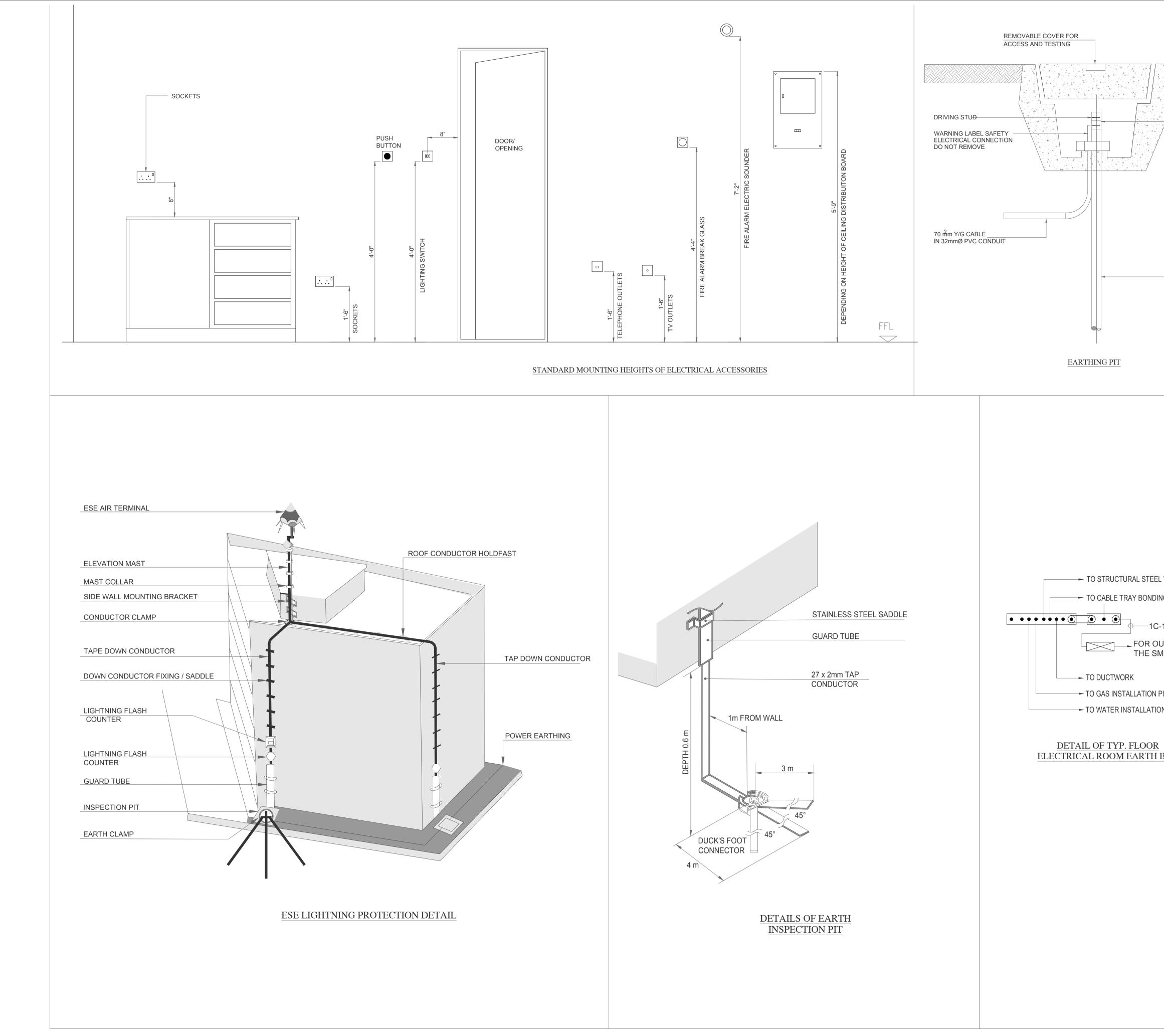
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SYMBOL	DESCRIPTION		
	CONDUIT CONCEALED IN FLOOR		
	CONDUIT CONCEALED IN CEILING (SLAB) OR WALL		
(DB-N, EDB-N)	CONDUIT OR CABLE RUN TO DISTRIBUTION BOARD (R1,Y1,B1) INDICATES REFERENCE CIRCUIT. (DB-N) INDICATES DISTRIBUTION BOARD NAME		
	CONDUIT OR CABLE RUN TO EQUIPMENT AS INDICATED OR CONTINUED AS INDICATED		

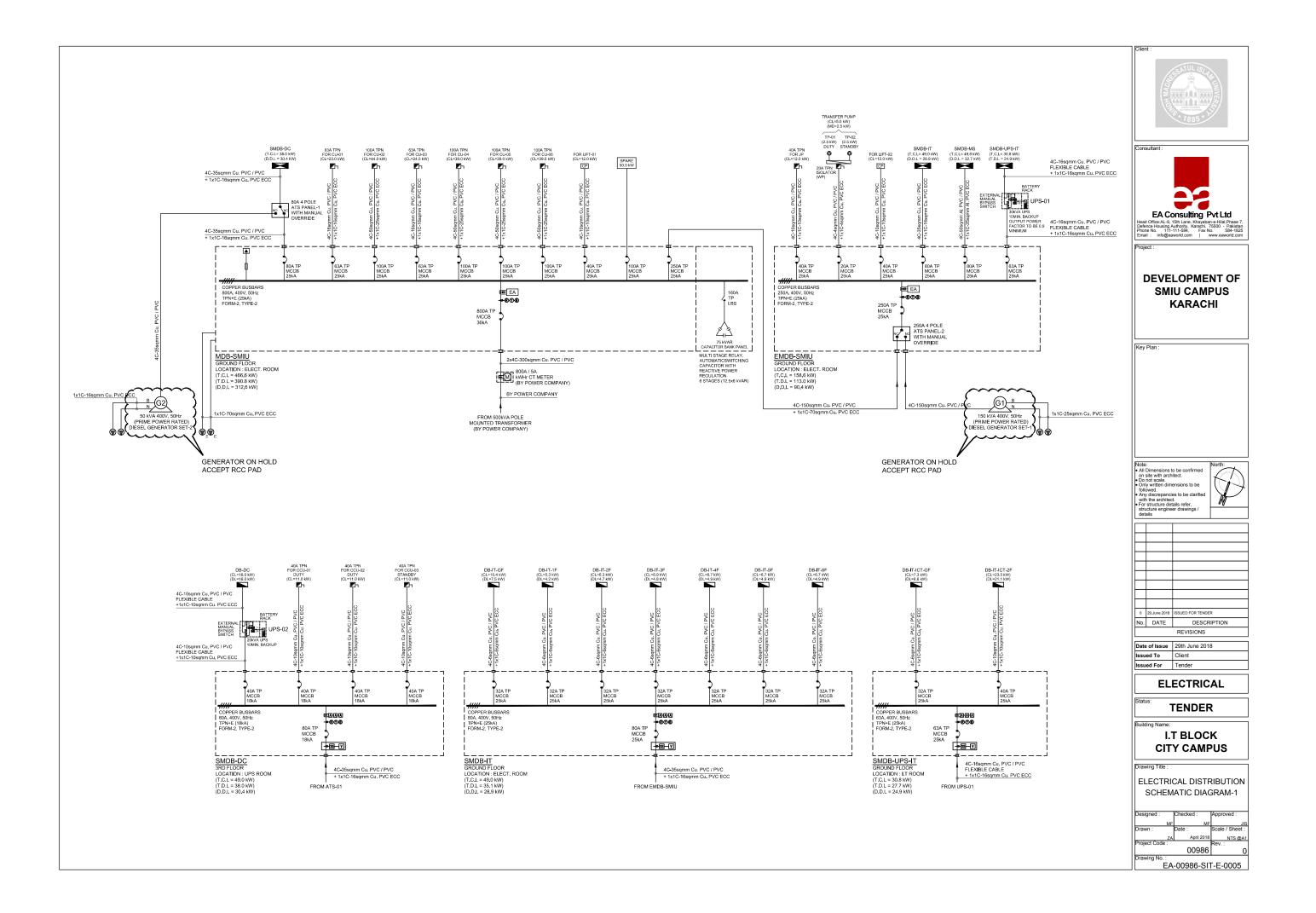
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	OPM Hur	1885 *
L THE ELECTRICAL DRAWINGS UNLESS		
ORK ACCORDING TO ARCHITECTURAL AND NDICATED. IN CONJUNCTION WITH THE REST OF THE STRUCTURE, AIRCONDITIONING, PLUMBING,	Consultant :	
	EAC	Consulting Pvt Ltd
TS SHOWN ON DRAWINGS SHALL BE	Defence Housing Phone No. 11 Email : info@e	, 15th Lane, Khayaban-e-Hilal,Phase 7, Authority, Karachi. 75500 - Pakistan 1-111-584, Fax No. 584-1825 eaworld.com www.eaworld.com
LVANIZED IRON UNLESS OTHERWISE	Project :	
CE WITH THE IEE		
CONCEALED IN ACCORDANCE TO RECTED BY THE ENGINEER. IT FIXTURES DO NOT NECESSARILY FUAL FIXTURES INTENDED	SM	IU CAMPUS KARACHI
GHTING IS TO BE FEED FROM NEAREST	Key Plan :	
WITCHES & DBs SHALL BE AS SHOWN IN R AS DIRECTED BY ENGINEER ON SITE.		
Ø 20mm. ED CONDUIT SIZE WHEREVER NOT INDICATED		
VEEN FLOORS USED FOR POWER & LOW FIRE RESISTANT MATERIAL OR CHEQUERED L BE MOTOR PROTECTOR TYPE . UITS OF PROPER SIZE FOR CONTROL WIRES	on site with arc • Do not scale. • Only written dir followed	mensions to be
C UNITS ETC. FULLY CO- ORDINATED WITH	 Any discrepand with the archite For structure de structure engin details 	cies to be clarified act. etails refer, eer drawings /
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,	0 29,June 2018	DESCRIPTION
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	Building Name	TENDER
OAD	I.	T BLOCK
	Drawing Title :	TY CAMPUS
	LEGEN SYMBOL & GI	D OF ELECTRICAL S, ABBREVIATIONS ENERAL NOTES
	Drawn :	IF MF JIS Date : Scale / Sheet : Image: Scale / Sheet : Image: Scale / Sheet : IA April 2018 NTS @A1 00986 0
	Drawing No. : EA-0	00986-SIT-E-0002

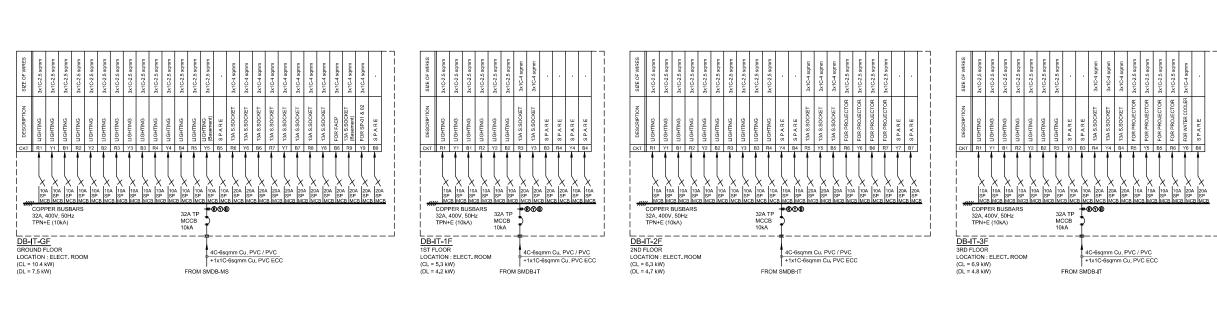


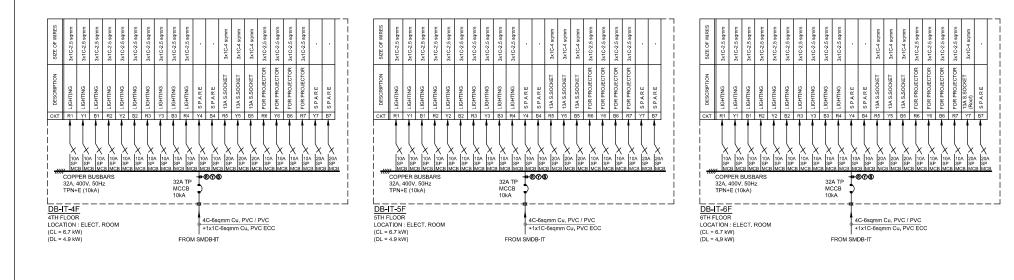
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1-1/4°0 CONDUITS TITY AS PER LAYOUT)	AND
JNKING	Consultant :
JNKING	EA Consulting Pvt Ltd
D))	Head Office/4.9, 15h Lane, Khayaban-e-Hila/Phase 7, Defined Housing Authority, Kanadhi. 75500 - Pakistan Phone No. 111-11564, Farsho. 554-1625 Email : info@eaworld.com www.eaworld.com Project :
JNKING	
1-1/4"Ø CONDUITS TITY AS PER LAYOUT)	SMIU CAMPUS KARACHI
	Key Plan :
WELDED/BOLTED INISTRUT CHANNEL MISTRUT CHANNEL/ ABRICATED GI FRAME	Note: • Al Dimensions to be confirmed on alls with archited. • Do not scale. • Any discrepancies to be darlfed with the archited. • For structure details refer, structure engineer drawings / details
GALVANIZED STEEL	
	0 29.June 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS
	Date of Issue 29th June 2018 Issued To Client Issued For Tender
	ELECTRICAL
	Status: TENDER
	Building Name: I.T BLOCK CITY CAMPUS
STANDARD JOINT	Drawing Title : ELECTRICAL STANDARD DETAIL (SHEET 1 OF 2)
<u>ONDING</u>	Designed : Checked : Approved : MF JIS JIS Drawn : Date : Scale / Sheet : MA April 2018 NTS @A1 Project Code : Rev. : Rev. :
	00986 00 Drawing No. : EA-00986-SIT-E-0003

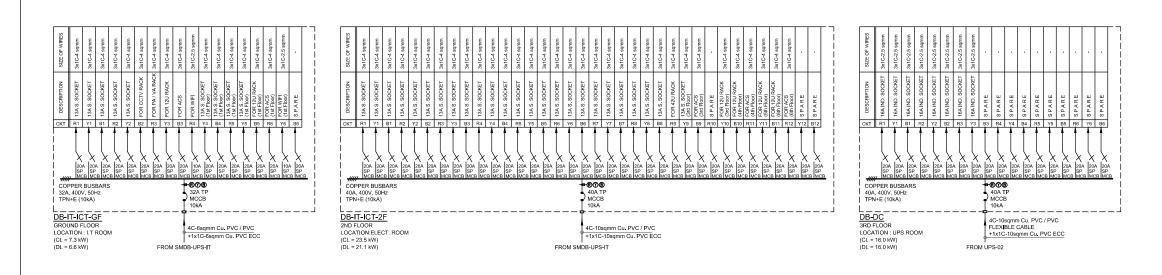


	Client :
GROUND FLOOR	HERE TO LAAR AND TO STORE TO STORE TO LAAR AND TO LAAR AND TO STORE TO LAAR AND TO LAAR AN
EARTH PIT WITH (INSP. PIT) EARTH ROAD SEAL COATED IN SILICONE GREASE AND WRAPPED WITH DENSO TAPE	Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
EARTH ELECTRODE	DEVELOPMENT OF SMIU CAMPUS KARACHI
	Key Plan :
- WORK NG -16sqmm Y/G ECC UTGOING CIRCUITS REFER TO	Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings / details
MDB SCHEMATIC DIAGRAMS	
PIPEWORK DN PIPEWORK	0 29,June 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS
BAR	Date of Issue29th June 2018Issued ToClientIssued ForTender
	ELECTRICAL
	Status: TENDER
	Building Name: I.T BLOCK CITY CAMPUS
	Drawing Title : ELECTRICAL STANDARD DETAIL (SHEET 2 OF 2)
	Designed : Checked : Approved : MF MF JIS Drawn : Date : Scale / Sheet : JA April 2018 NTS @A1 Project Code : Rev. : 00986 0
	Drawing No. : EA-00986-SIT-E-0004









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Consul	tant :		
	FAC	onsulting F	∿t Ltd
Head O Defence Phone I Email :	ffice:AL-9, e Housing / No. 111- info@ea	15th Lane, Khayaba Authority, Karachi, 1 111-584, Fax N world.com v	n-e-Hilal,Phase 7, 75500 - Pakistan o. 584-1825 www.eaworld.com
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		Date : April 2018	NTS @A1
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DEVELOPMENT OF SMIU CAMPUS KARACHI

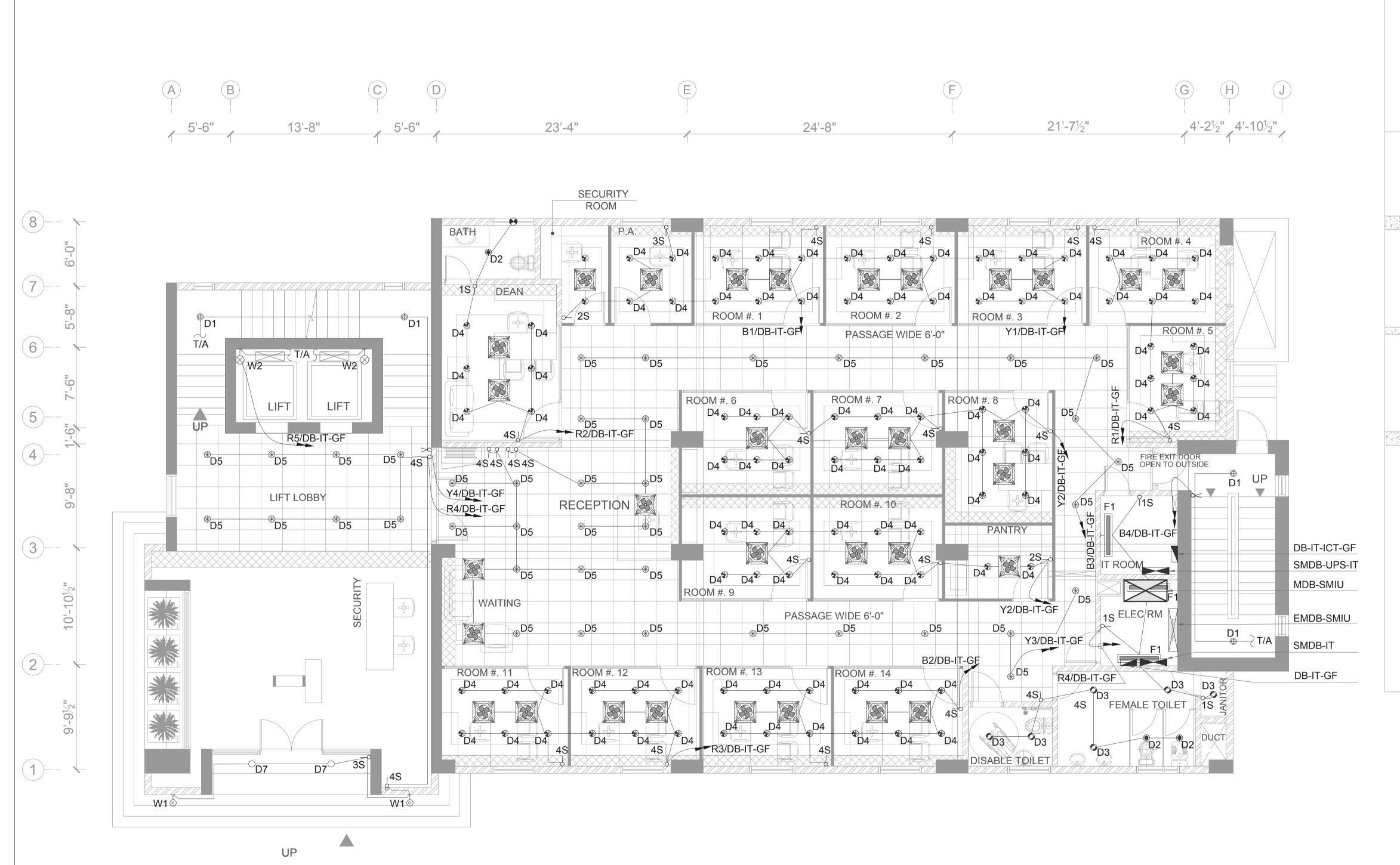


TENDER DRAWINGS LIGHTING SYSTEM



IT BLOCK City Campus

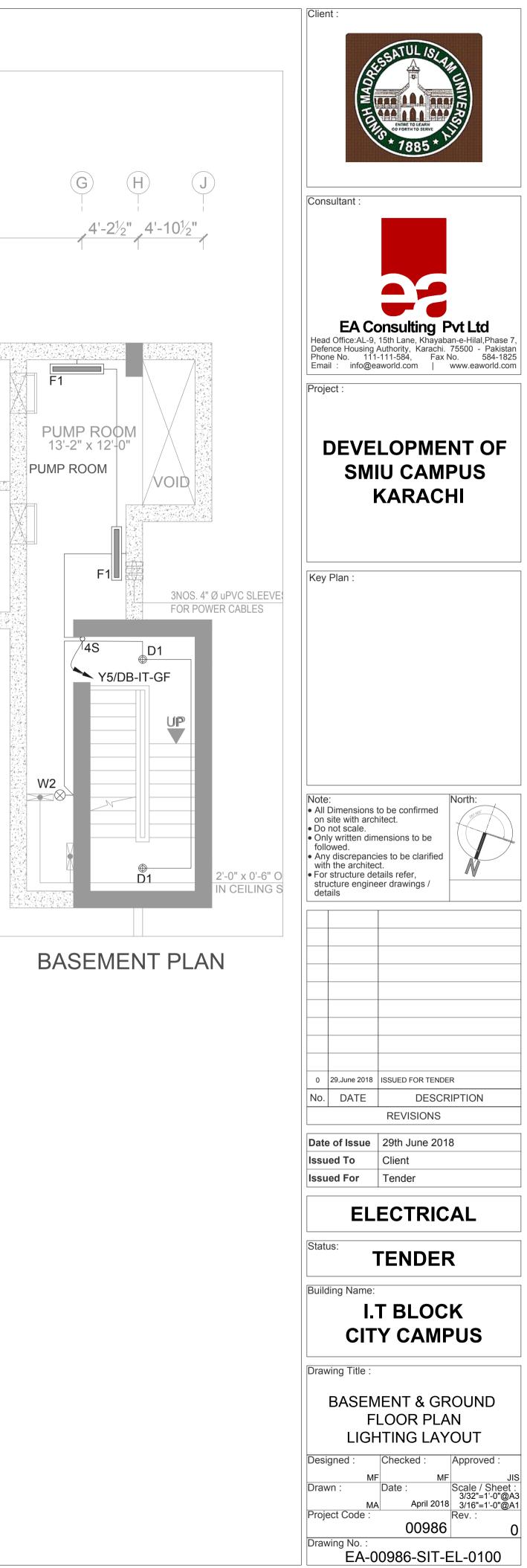


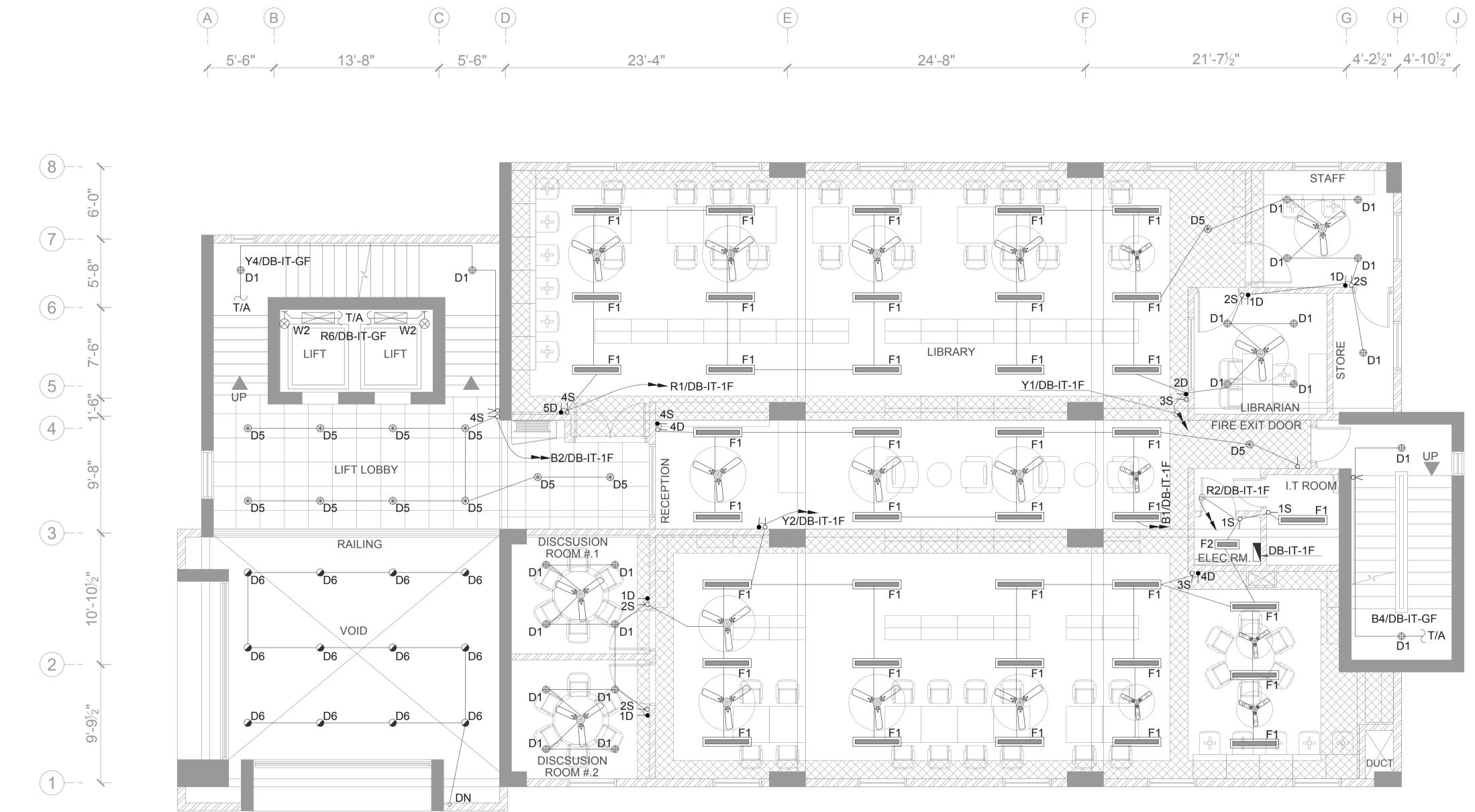


GROUND FLOOR PLAN

	LE	EGEND FOR LIG	BHTING		
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕ D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	© D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	⊛ D4	DOWNLIGHT FIXTURE (IP-20)	10W LED	1000 Lm	CEILING RECESSED
5	⊛ D5	DOWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED
6	∕∂D6	DOWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE
7	O D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

	L	EGEND FOR LIC	GHTING				L	EGEND FOR LIG	HTING)	
S.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
8	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15	•	EXHAUST FAN (BY OTHERS)			WALL
9	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	1900 Lm	CEILING SURFACE	16	၂ NS	LIGHTING CONTROL SWITCH (N GANG)			WALL
10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)			WALL
11	⊢⊗ W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	X	TWO WAY LIGHTING CONTROL SWITCH			WALL
12		CEILING FAN 48"			CEILING SURFACE						
13		CEILING FAN 56"			CEILING SURFACE	NOTES;-					
14		CEILING FAN 24" x 24"			CEILING RECESSED	1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL .					



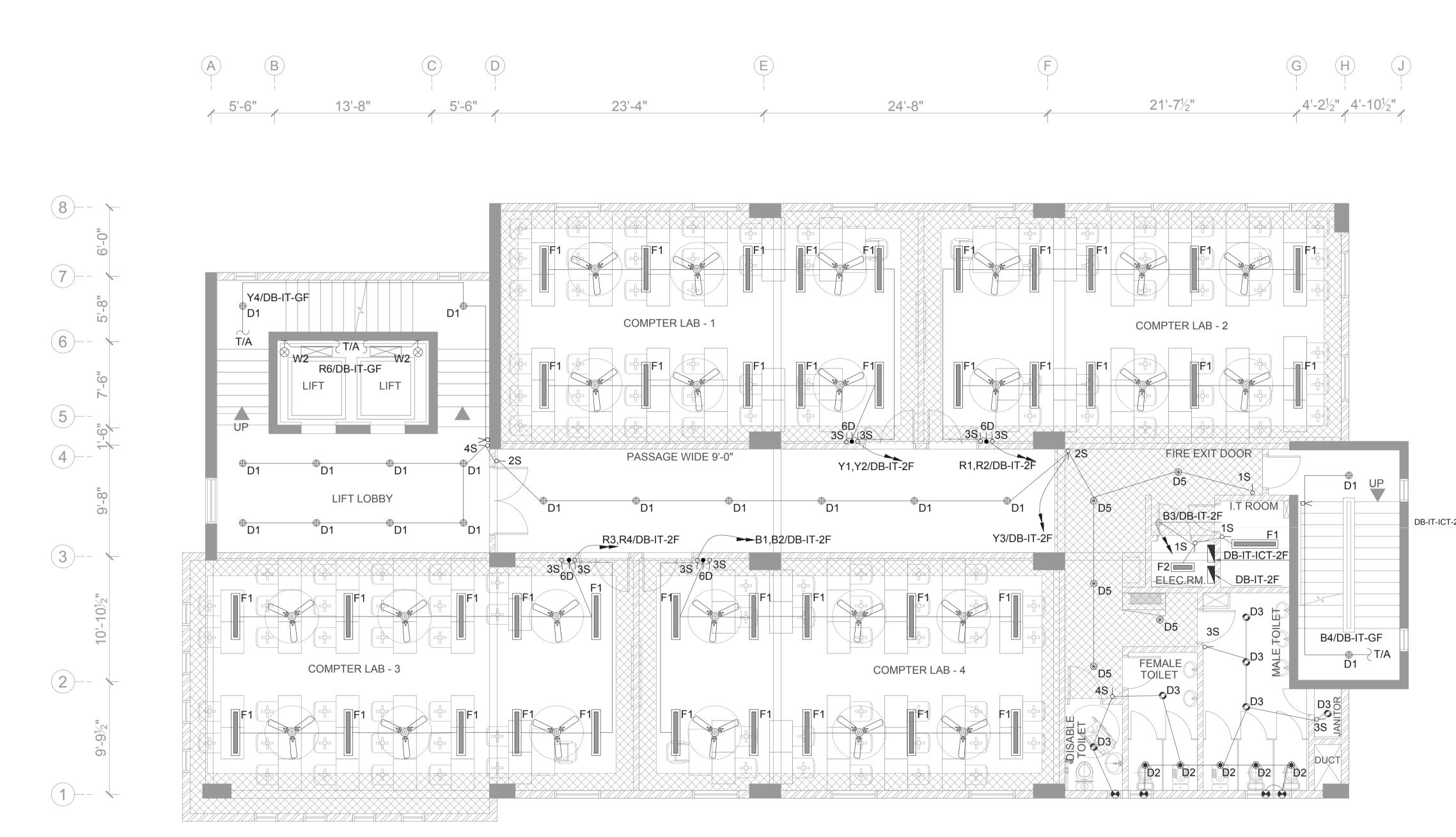


	LE	EGEND FOR LIG	HTING		
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
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5	⊛ D5	DOWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED
6	∕∂D6	DOWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE
7	O D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

	LE	EGEND FOR LIG	BHTING			LEGEND FOR LIGHTING							
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED		
8 [F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15	•	EXHAUST FAN (BY OTHERS)			WALL		
9	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	1900 Lm	CEILING SURFACE	16	၂ NS	LIGHTING CONTROL SWITCH (N GANG)			WALL		
10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)			WALL		
11	⊢⊗W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	Х	TWO WAY LIGHTING CONTROL SWITCH			WALL		
12		CEILING FAN 48"			CEILING SURFACE								
13		CEILING FAN 56"			CEILING SURFACE		ES;-						
14		CEILING FAN 24" x 24"			CEILING RECESSED	1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL .							

Clier	nt :		
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Con	sultant :		
Defe Phor	d Office:AL-9, ence Housina	DISth Lane, Khayabar Authority, Karachi. 7 -111-584, Fax Ne aworld.com v	n-e-Hilal,Phase 7 75500 - Pakista
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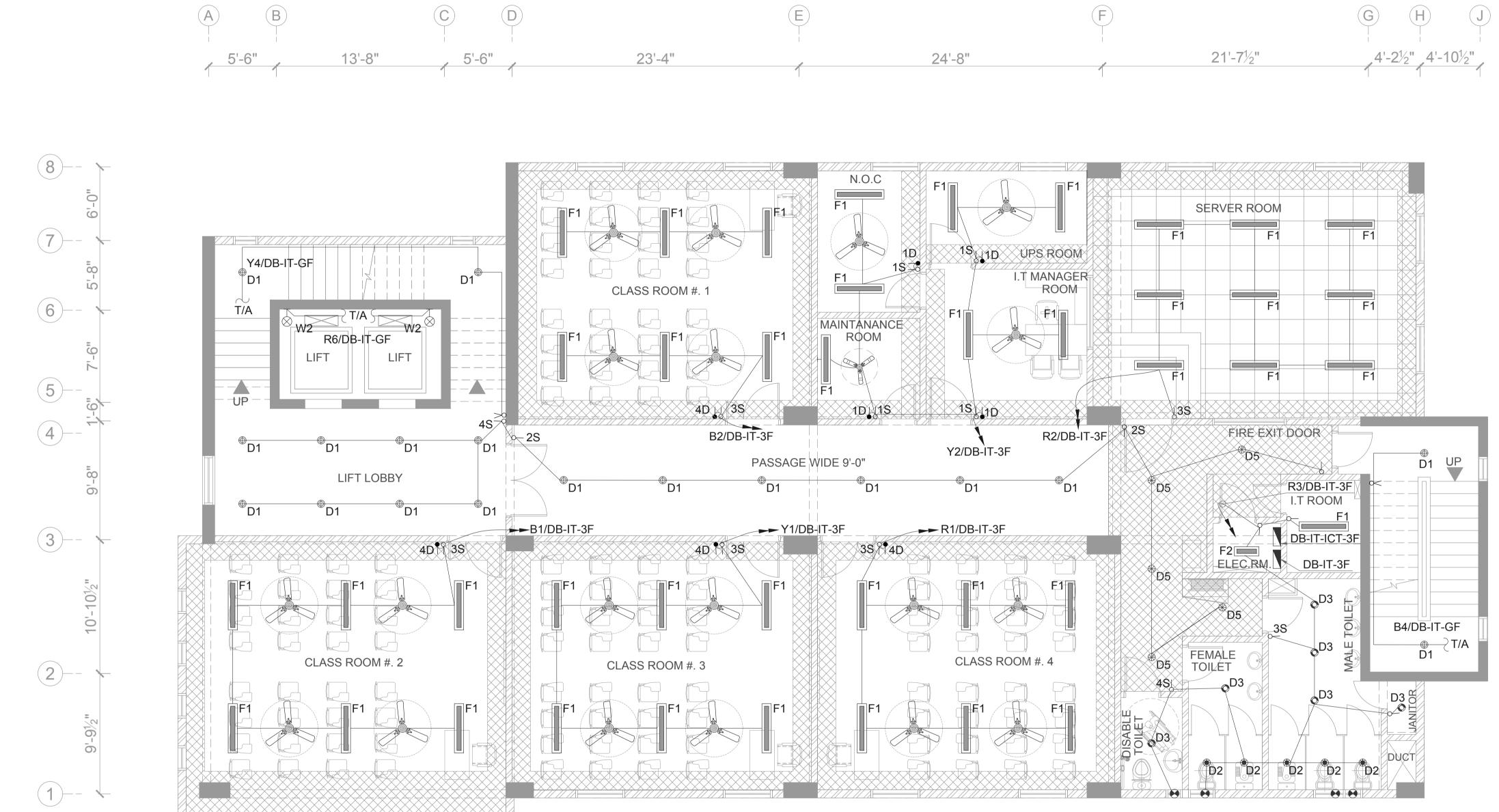
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	LE	EGEND FOR LIG	HTING		
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕ D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	© D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	₩ D4	DOWNLIGHT FIXTURE (IP-20)	10W LED	1000 Lm	CEILING RECESSED
5	⊛ D5	DOWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED
6	ᢙD6	DOWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE
7	○ D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

	L	EGEND FOR LIG	BHTING				LI					
S.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	
8	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15	•	EXHAUST FAN (BY OTHERS)			WALL	
9	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	1900 Lm	CEILING SURFACE	16	_ୁ NS	LIGHTING CONTROL SWITCH (N GANG)			WALL	
10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)			WALL	
11	⊢⊗ W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	8	TWO WAY LIGHTING CONTROL SWITCH			WALL	
12		CEILING FAN 48"			CEILING SURFACE							
13		CEILING FAN 56"			CEILING SURFACE		ES;-				-	
14		CEILING FAN 24" x 24"			CEILING RECESSED	1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL .						

	Client :
	Consultant :
	EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com
	DEVELOPMENT OF SMIU CAMPUS KARACHI
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	 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
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	Drawing Title :
	SECOND FLOOR PLAN LIGHTING LAYOUT
	Designed : Checked : Approved : MF MF JIS Drawn : Date : Scale / Sheet : 3/32"=1'-0"@A3 2/46" 410"@A4
	MA April 2018 3/16"=1'-0"@A1 Project Code : Rev. : 00986 0 Drawing No. : Drawing No. :
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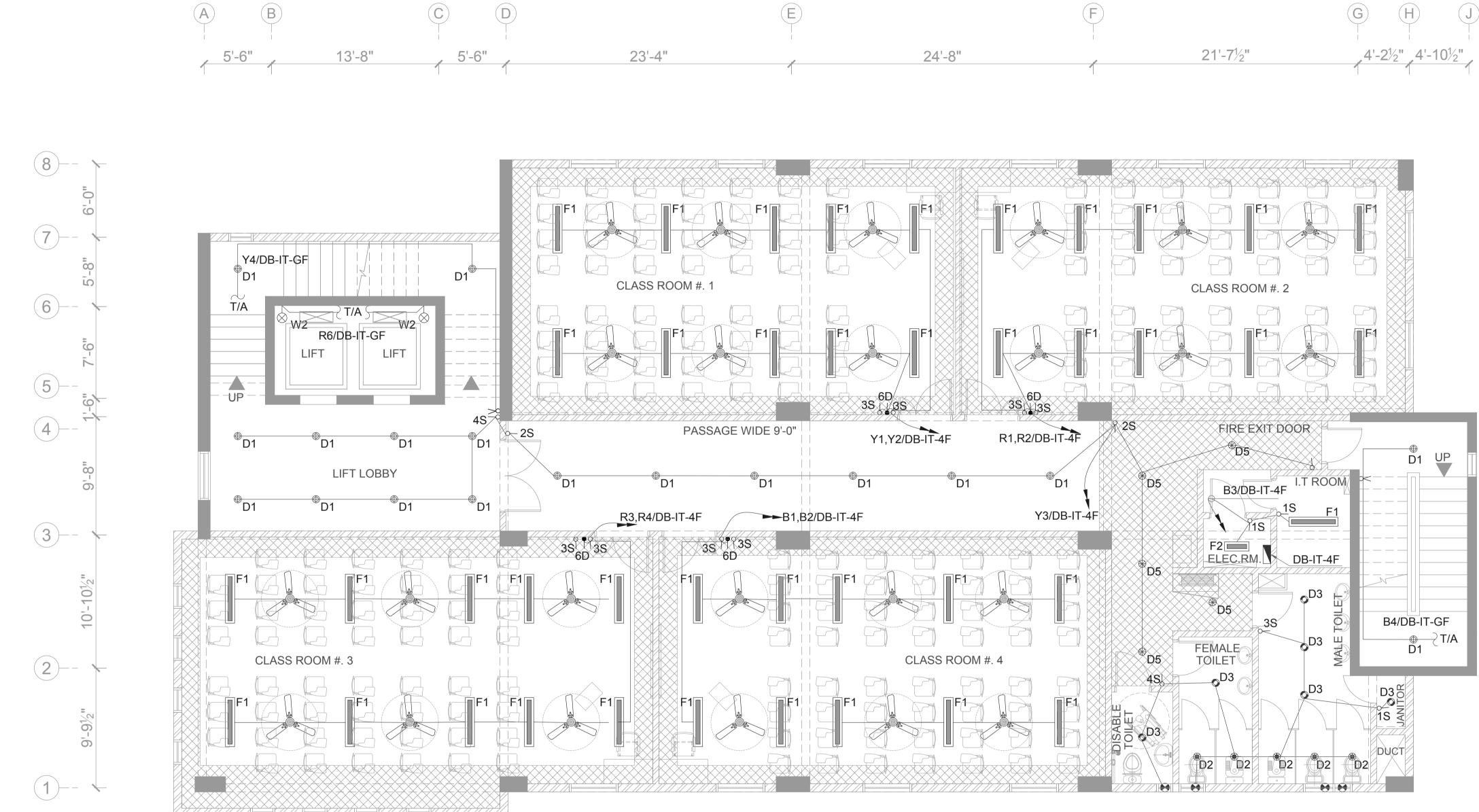
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	LE	EGEND FOR LIG	BHTING		
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
3	© D3	DOWNLIGHT FIXTURE (IP-44)	10W LED	1000 Lm	CEILING RECESSED
4	₩ D4	DOWNLIGHT FIXTURE (IP-20)	10W LED	1000 Lm	CEILING RECESSED
5	⊛ D5	DOWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED
6	∕∂D6	DOWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE
7	O D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

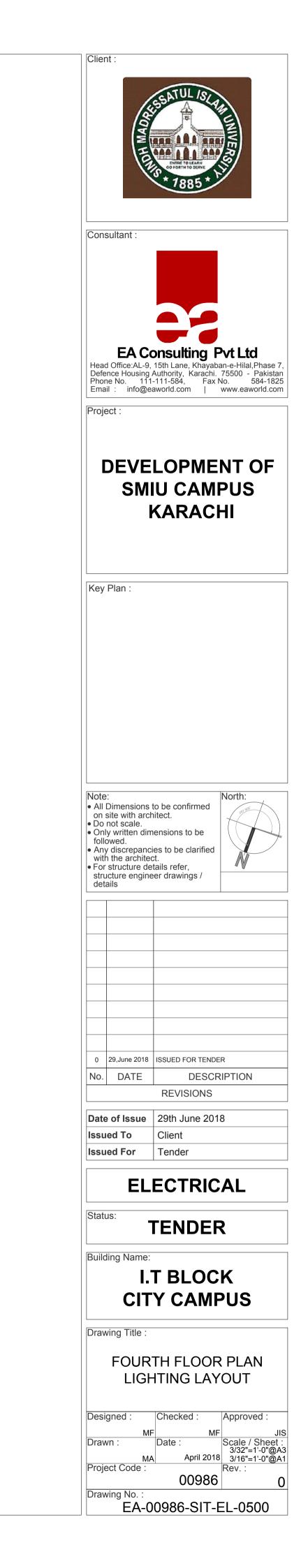
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S.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.N	lo. 🤇	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	
8	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15		•	EXHAUST FAN (BY OTHERS)			WALL	
9	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	1900 Lm	CEILING SURFACE	16		၂ NS	LIGHTING CONTROL SWITCH (N GANG)			WALL	
10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17			FAN DIMMER (N GANG)			WALL	
11	⊢⊗ W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18		Х	TWO WAY LIGHTING CONTROL SWITCH			WALL	
12		CEILING FAN 48"			CEILING SURFACE								
13		CEILING FAN 56"			CEILING SURFACE	NC			· · · · · · · · · · · · · · · · · · ·				
14		CEILING FAN 24" x 24"			CEILING RECESSED	٦	ΓEMF	PERATURE C	F LIGHT FIXTURES AND COLOUR DF LAMPS SHALL BE SUBJECT APPROVAL .				

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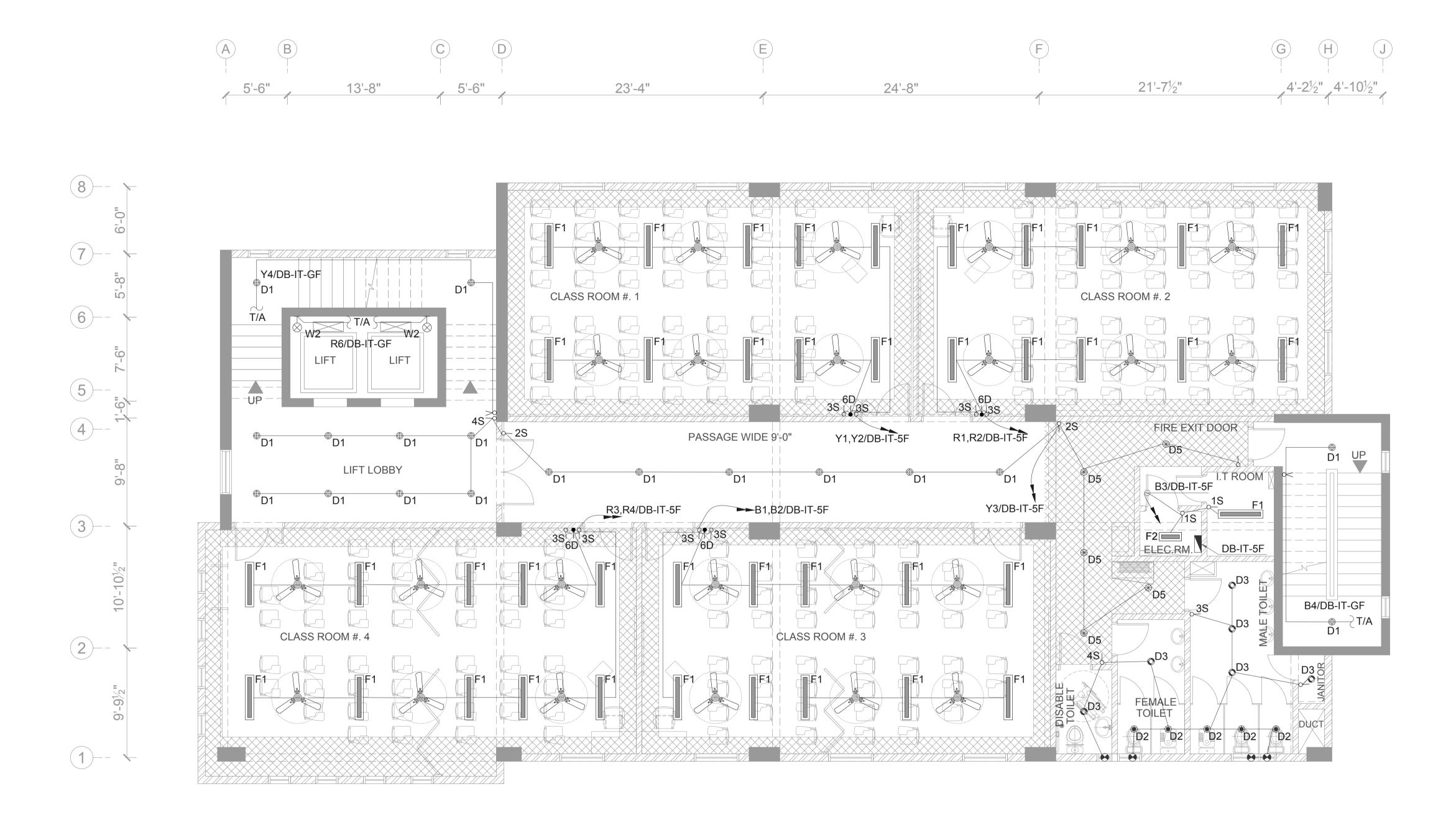


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S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTE
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕ D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSEE
3	© D3 DOWNLIGHT FIXTURE (IP-44)		10W LED	1000 Lm	CEILING RECESSEI
4	₩ D4	DOWNLIGHT FIXTURE (IP-20)	10W LED	1000 Lm	CEILING RECESSEE
5	⊛ D5	DOWNLIGHT FIXTURE (IP-44)	14W LED	1400 Lm	CEILING RECESSED
6	DOWNLIGHT FIXTURE (IP-20)		28W LED	2100 Lm	CEILING SURFACE
7	O D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

	LI	EGEND FOR LIC	GHTING			LEGEND FOR LIGHTING						
6.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX		
8	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15	•	EXHAUST FAN (BY OTHERS)		WALL		
9	F2	2' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	1900 Lm	CEILING SURFACE	16	୍ଧ NS	LIGHTING CONTROL SWITCH (N GANG)		WALL		
10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)		WALL		
11	⊢⊗ W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	Х	TWO WAY LIGHTING CONTROL SWITCH		WALL		
12		CEILING FAN 48"			CEILING SURFACE							
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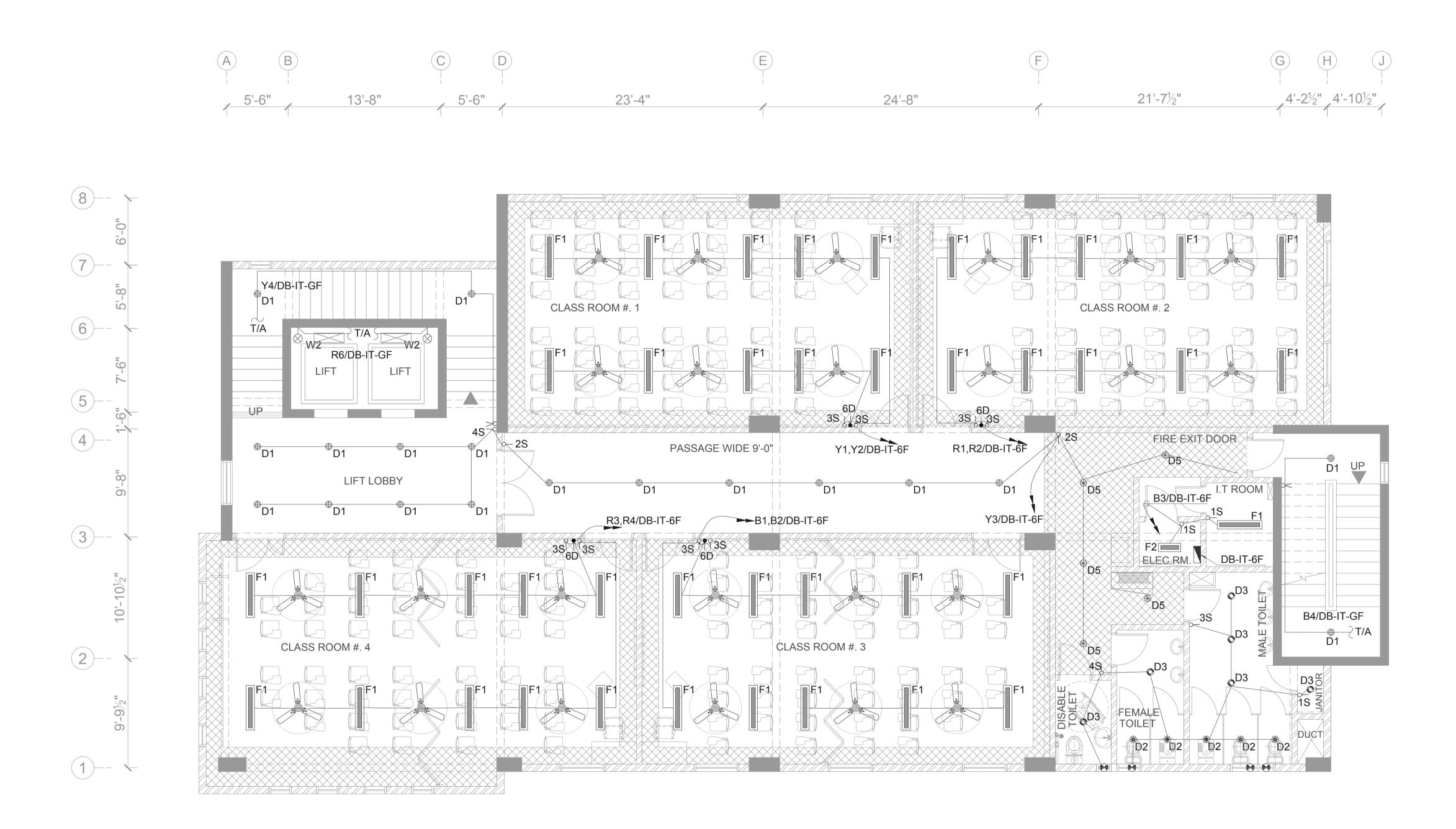
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S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE
2	⊕D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED
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4	₩ D4			1000 Lm	CEILING RECESSED
5	⊕D5 DOWNLIGHT FIXTURE (IP-44)		14W LED	1400 Lm	CEILING RECESSED
6	∕∂D6	DOWNLIGHT FIXTURE (IP-20)	28W LED	2100 Lm	CEILING SURFACE
7	O D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE

	LE	EGEND FOR LIG	GHTING				LEGEND FOR LIGHTING					
S.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	
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10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)			WALL	
11	⊢⊗W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	X	TWO WAY LIGHTING CONTROL SWITCH			WALL	
12		CEILING FAN 48"			CEILING SURFACE							
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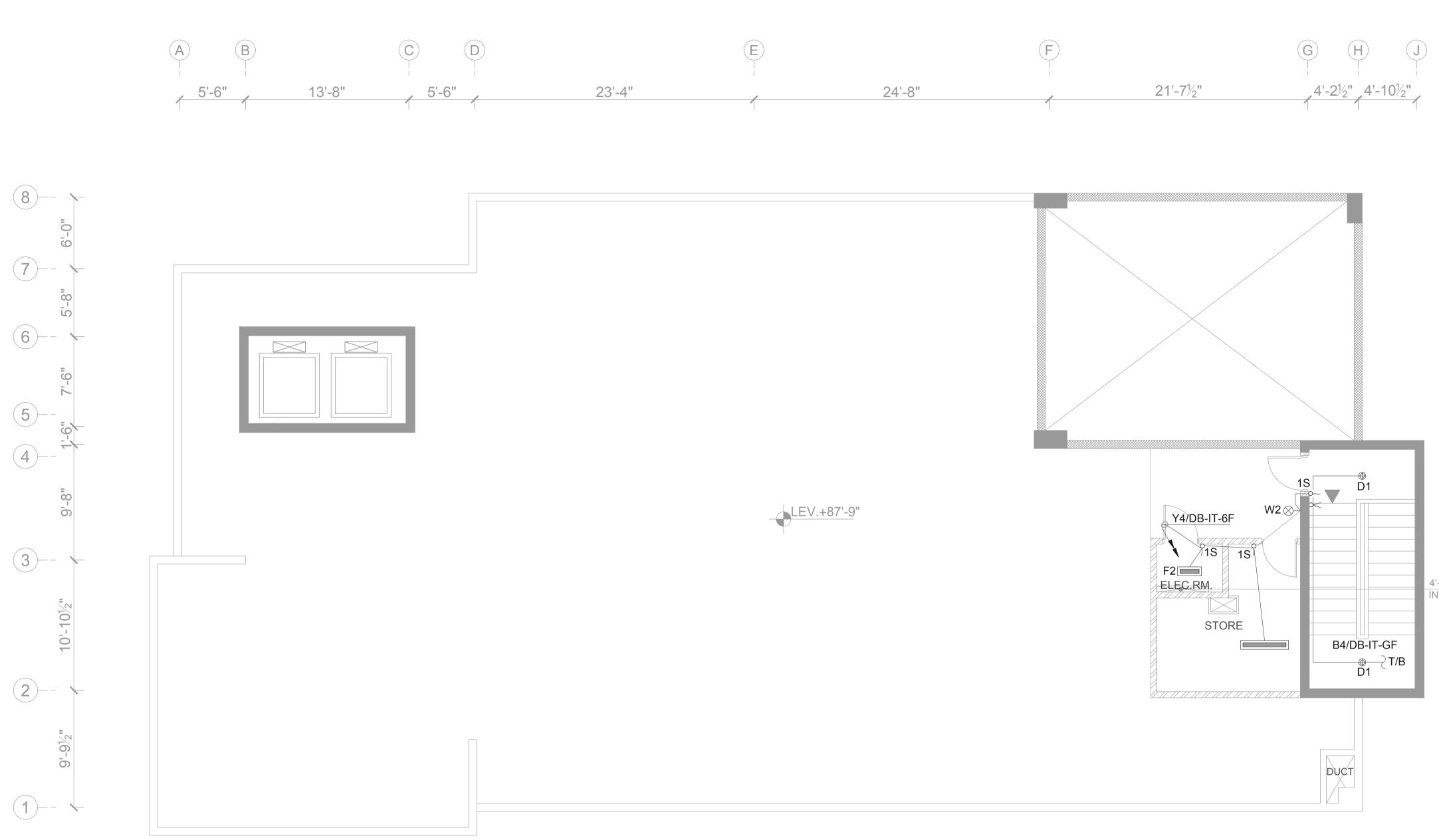
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LEGEND FOR LIGHTING												
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED							
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE							
2	⊕D2	DOWNLIGHT FIXTURE (IP-44)	7W LED	650 Lm	CEILING RECESSED							
3	© D3 DOWNLIGHT FIXTURE (IP-44)		10W LED	1000 Lm	CEILING RECESSED							
4	₩ D4	BOWNLIGHT FIXTURE (IP-20)		1000 Lm	CEILING RECESSED							
5	⊕D5 DOWNLIGHT FIXTURE (IP-44)		14W LED	1400 Lm	CEILING RECESSED							
6	OD6 DOWNLIGHT FIXTURE (IP-20)		28W LED	2100 Lm	CEILING SURFACE							
7	○ D7	DOWNLIGHT FIXTURE (IP-54)	20W LED	1600 Lm	CEILING SURFACE							

	LE	EGEND FOR LIG	GHTING			LEGEND FOR LIGHTING					
S.No	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED	S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED
8	F1	4' LONG BATTEN LIGHT FIXTURE (IP-20)	40W LED	3700 Lm	CEILING SURFACE	15	•	EXHAUST FAN (BY OTHERS)			WALL
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10	⊢⊚ W1	WALL LIGHT FIXTURE (IP-54)	2x5W LED		WALL	17	↓ ND	FAN DIMMER (N GANG)			WALL
11	⊢⊗W2	BULKHEAD LIGHT FIXTURE (IP-54)	10W LED	800 Lm	WALL	18	X	TWO WAY LIGHTING CONTROL SWITCH			WALL
12		CEILING FAN 48"			CEILING SURFACE						
13		CEILING FAN 56"			CEILING SURFACE		ES;-				
14		CEILING FAN 24" x 24"			CEILING RECESSED	TE		LIGHT FIXTURES AND COLOUR F LAMPS SHALL BE SUBJECT			

Consultant : EA Consulting Public Consultant Properties (Nayaban-e-Hilal,Ph Defence Housing Authority, Karachi, 75500 - Pa Phone No. 111-11-504, Fax No. 564 Email : info@eaworld.com www.eaworld Project : DEVELOPMENT O SMIU CAMPUS KARACHI Key Plan : (Key Plan : Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings / details • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be followed. • Any discrepancies to be clarified • Only written dimensions to be • Only written dim	Note: Number of the second	Client :	Hunder Hunder	TUL ISLAN ALL ALL MARA ANA ALL ALL MARA ANA ALL ALL MARA ANA ALL	LUNIVERSI
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	LEGEND FOR LIGHTING												
S.No.	SYMBOL	DESCRIPTION	LAMP	MINIMUM LUMINOUS FLUX	MOUNTED								
1	⊕D1	DOWNLIGHT FIXTURE (IP-20)	20W LED	1600 Lm	CEILING SURFACE								
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	LI	EGEND FOR LIG	HTING				LEGEND FOR LIGHTING						
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13		CEILING FAN 56"			CEILING SURFACE		NOTES;-						
14		CEILING FAN 24" x 24"			CEILING RECESSED	1. ALL FINISHES OF LIGHT FIXTURES AND COLOUR TEMPERATURE OF LAMPS SHALL BE SUBJECT TO ARCHITECT'S APPROVAL .							

	Client :
	NITE TO LEAD BORDETHITO SERVE
	Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project :
	DEVELOPMENT OF SMIU CAMPUS KARACHI
	Key Plan :
<u>OPENI</u> NG LAB	
	 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details
	0 29,June 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS
	Date of Issue29th June 2018Issued ToClient
	Issued For Tender
	ELECTRICAL Status:
	Building Name:
	I.T BLOCK CITY CAMPUS
	Drawing Title :
	ROOF PLAN LIGHTING LAYOUT
	Designed : Checked : Approved : MF MF JIS Drawn : Date : Scale / Sheet : 3/32"=1'-0"@A3
	MA April 2018 3/16"=1'-0"@A1 Project Code : Rev. : 00986 0
	Drawing No. : EA-00986-SIT-EL-0800

4'-4" x 0'-6" 0 IN FLOOR SL

DEVELOPMENT OF SMIU CAMPUS KARACHI

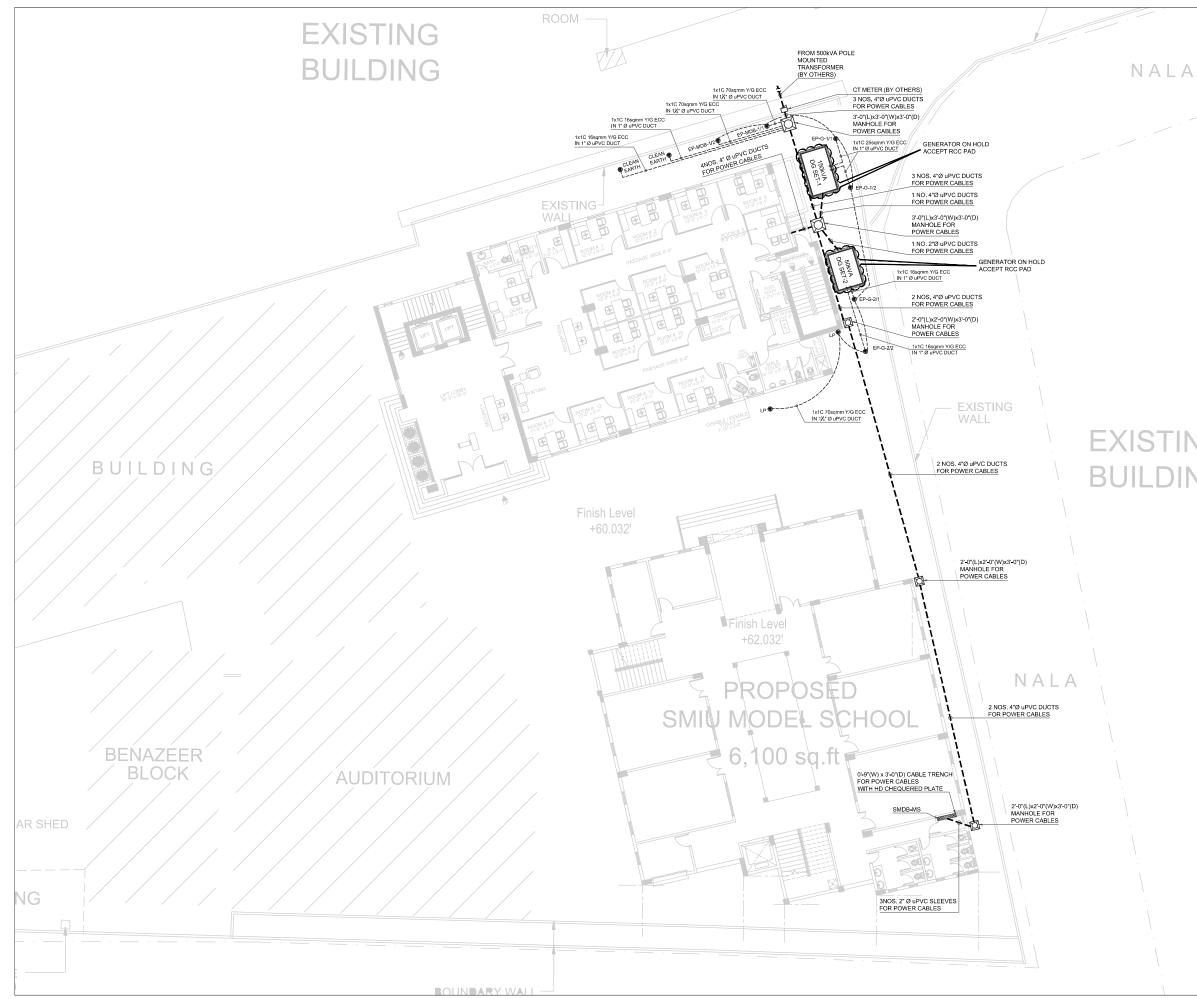


TENDER DRAWINGS POWER SYSTEM

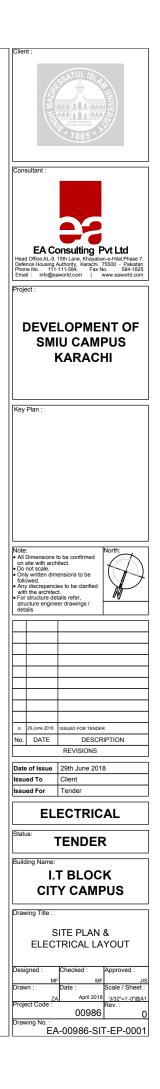


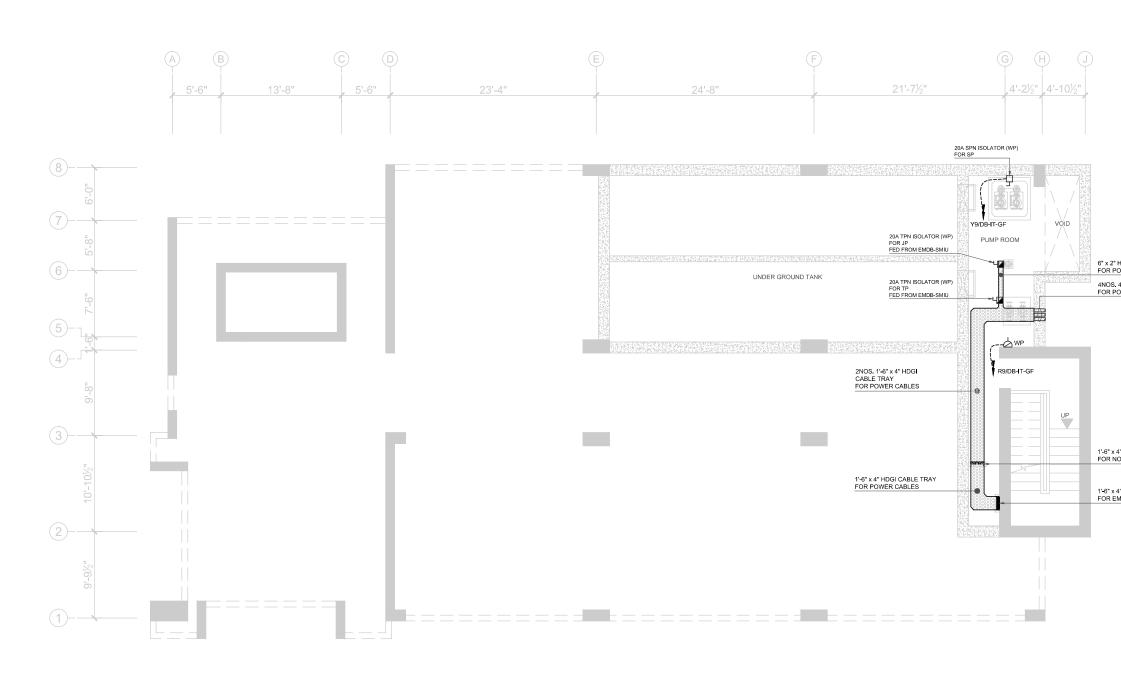
IT BLOCK City Campus





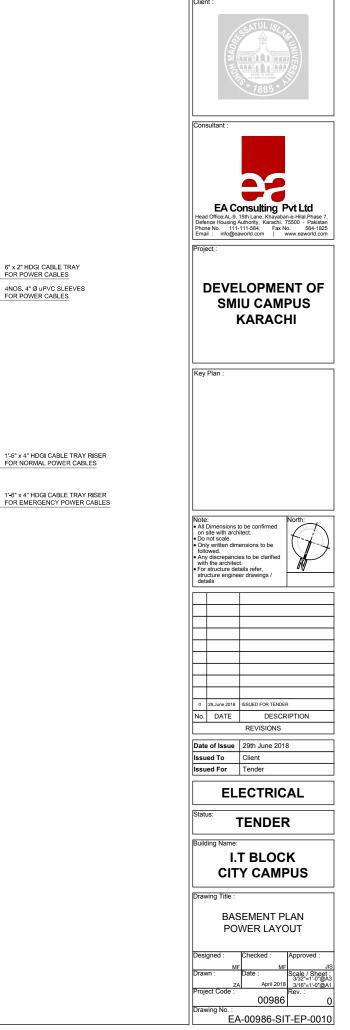
EXISTING BUILDING

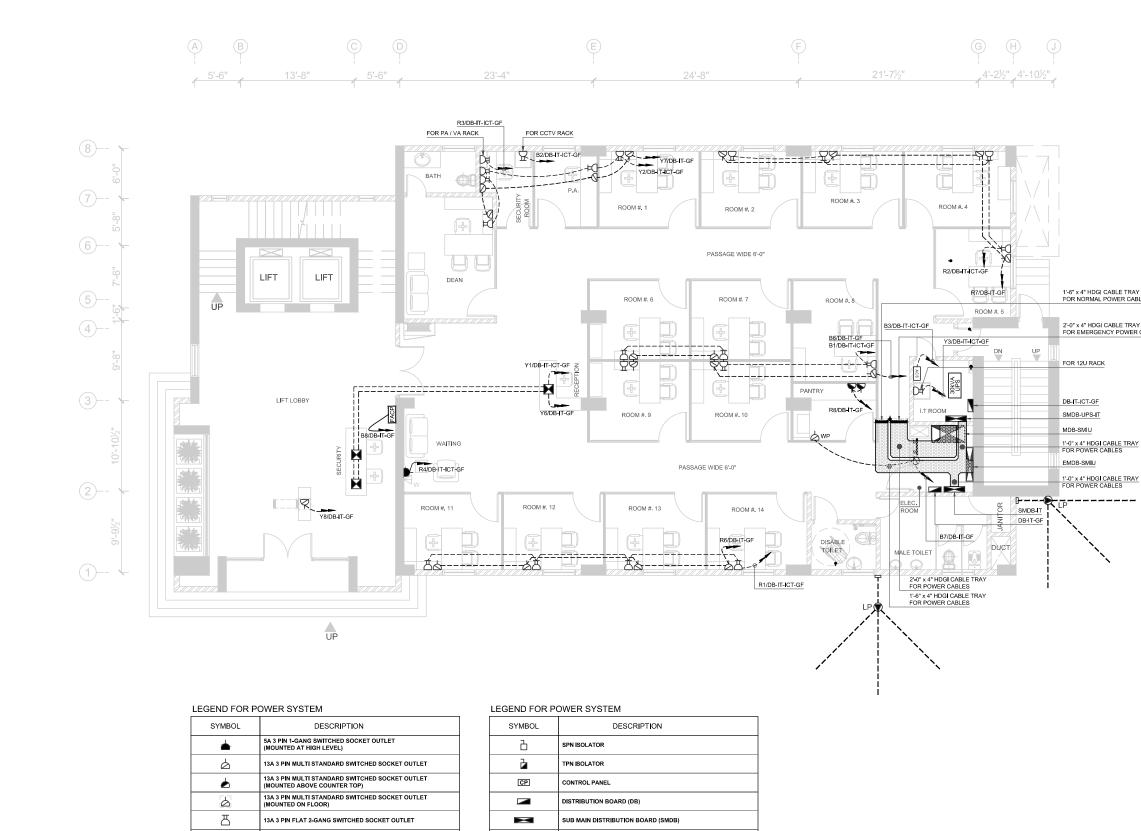




LEGEND FOR POWER SYSTEM		
SYMBOL	DESCRIPTION	
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)	
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET	
1	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)	
Ø	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)	
凸	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET	
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET	
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET	
۵	16A 3 PIN INDUSTRIAL SOCKET	
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA	
6	10A 1-GANG SWITCH	

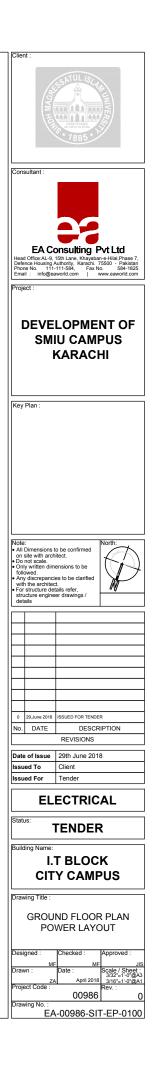
LEGEND FOR POWER SYSTEM	
SYMBOL	DESCRIPTION
Ъ	SPN ISOLATOR
-N	TPN ISOLATOR
CP	CONTROL PANEL
	DISTRIBUTION BOARD (DB)
X	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
X	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)
Ø	POWER MANHOLE
۲	EARTH PIT FOR POWER
🗑 LP	EARTH PIT FOR LIGHTNING PROTECTION
	EARTH BAR WITH SINGLE DISCONNECTING LINK



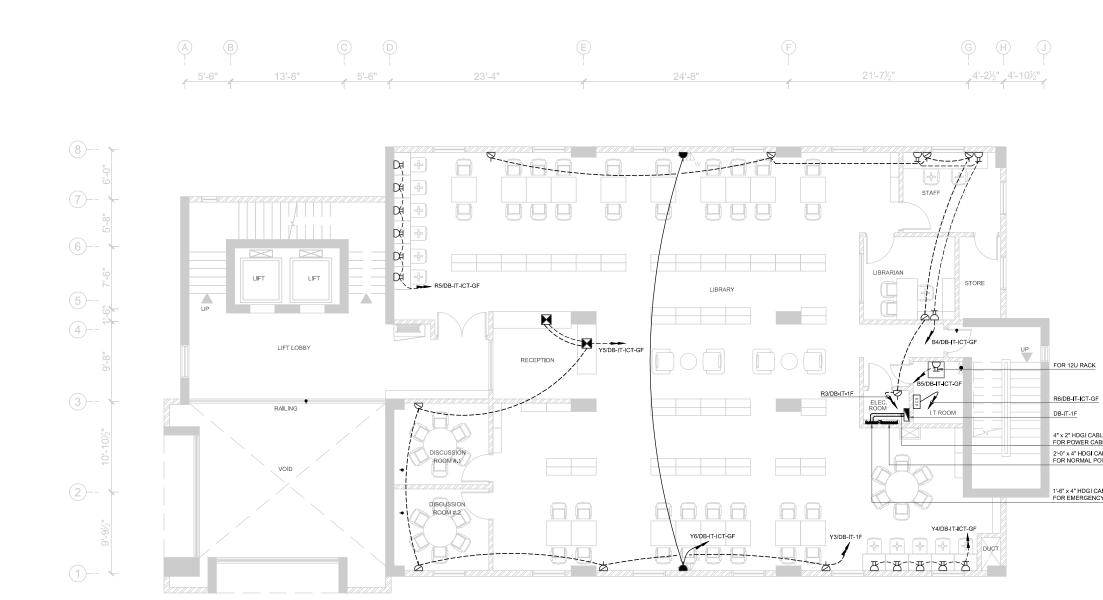


6	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
呂	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
۲	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
۵	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

SYMBOL	DESCRIPTION
6	SPN ISOLATOR
	TPN ISOLATOR
СР	CONTROL PANEL
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)
Ø	POWER MANHOLE
۲	EARTH PIT FOR POWER
🗑 LP	EARTH PIT FOR LIGHTNING PROTECTION
<u>x x</u>	EARTH BAR WITH SINGLE DISCONNECTING LINK



1'-6" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES

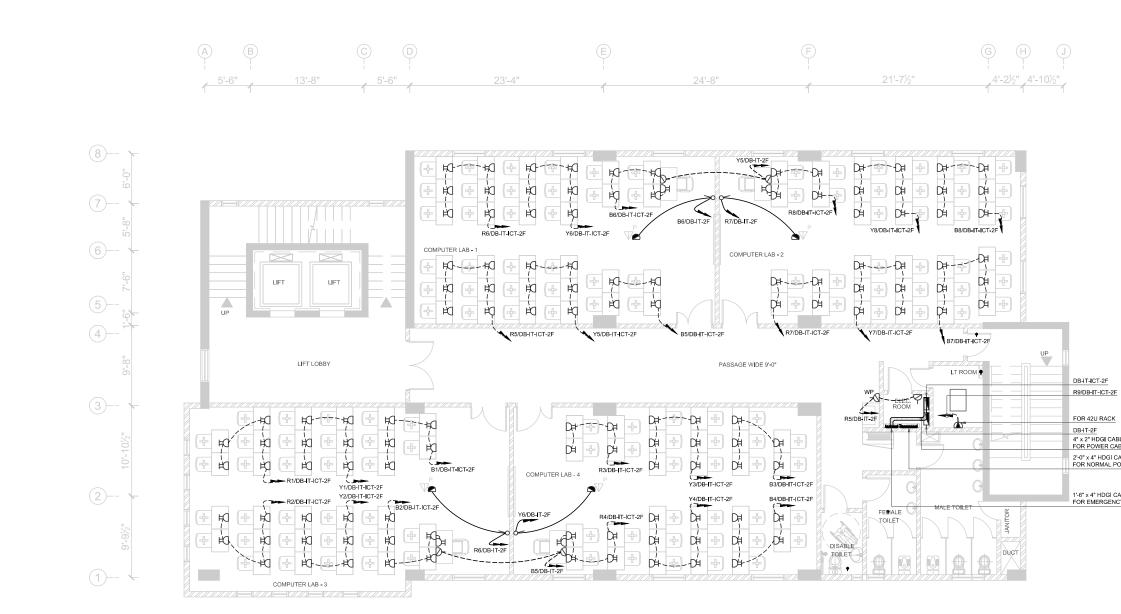


LEGEND FOR P	OWER SYSTEM
SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
þ	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
à	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
巴	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
۵	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

LEGEND FOR POWER SYSTEM	
SYMBOL	DESCRIPTION
6	SPN ISOLATOR
	TPN ISOLATOR
CP	CONTROL PANEL
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)
Ø	POWER MANHOLE
Í	EARTH PIT FOR POWER
🐨 LP	EARTH PIT FOR LIGHTNING PROTECTION
<u>* *</u>	EARTH BAR WITH SINGLE DISCONNECTING LINK

1			
	HOR MADA	55ATUL /5/ 4	UNITERS
Cons	sultant :		
Ema	d Office:AL-9, nce Housing / ne No. 111- il : info@ea	15th Lane, Khayabar Authority, Karachi. 7 111-584, Fax No	► Ltcl a-Hial,Phase 7, 5500 - Pakistan 0. 584-1825 www.eaworld.com
Proje	ect :		
DEVELOPMENT OF SMIU CAMPUS KARACHI			
	Plan :		
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4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES

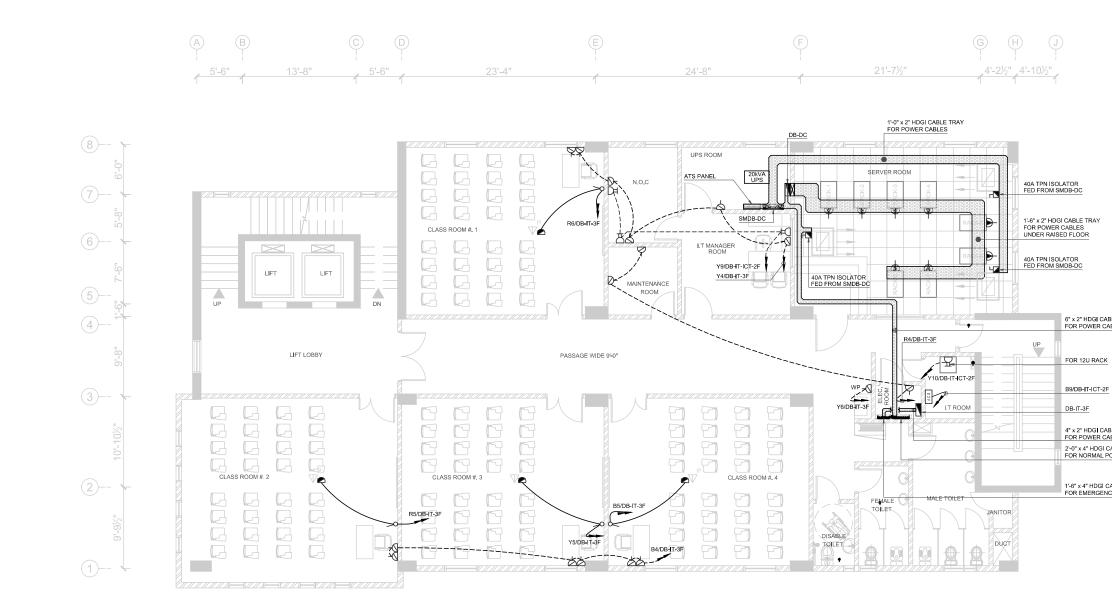


LEGEND FOR	POWER SYSTEM
SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
${\diamondsuit}$	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
\diamond	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
巴	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
۵	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 24ANG SWITCHED SOCKET OUTLET 1 No DUAL RJ45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

LEGEND FOR POWER SYSTEM	
SYMBOL	DESCRIPTION
占	SPN ISOLATOR
	TPN ISOLATOR
CP	CONTROL PANEL
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)
Ø	POWER MANHOLE
Ó	EARTH PIT FOR POWER
🐨 LP	EARTH PIT FOR LIGHTNING PROTECTION
7 7	EARTH BAR WITH SINGLE DISCONNECTING LINK

Client :	
ADA.	55ATUL ISLA
W Hall	Distribution (1997)
Consultant :	
EAC	onsulting Pvt Ltd
Head Office:AL-9, Defence Housing Phone No. 111	OffSchung PVLLCO 15th Lane, Khayaban-e-Hilal,Phase 7, Authority, Karachi. 75500 - Pakistan 111-584, Fax No. 584-1825 aworld.com www.eaworld.com
Email : info@e	aworld.com www.eaworld.com
Project :	
DEVELOPMENT OF SMIU CAMPUS KARACHI	
Key Plan :	
Note: • All Dimensions	to be confirmed
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DB-IT-2F 4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES



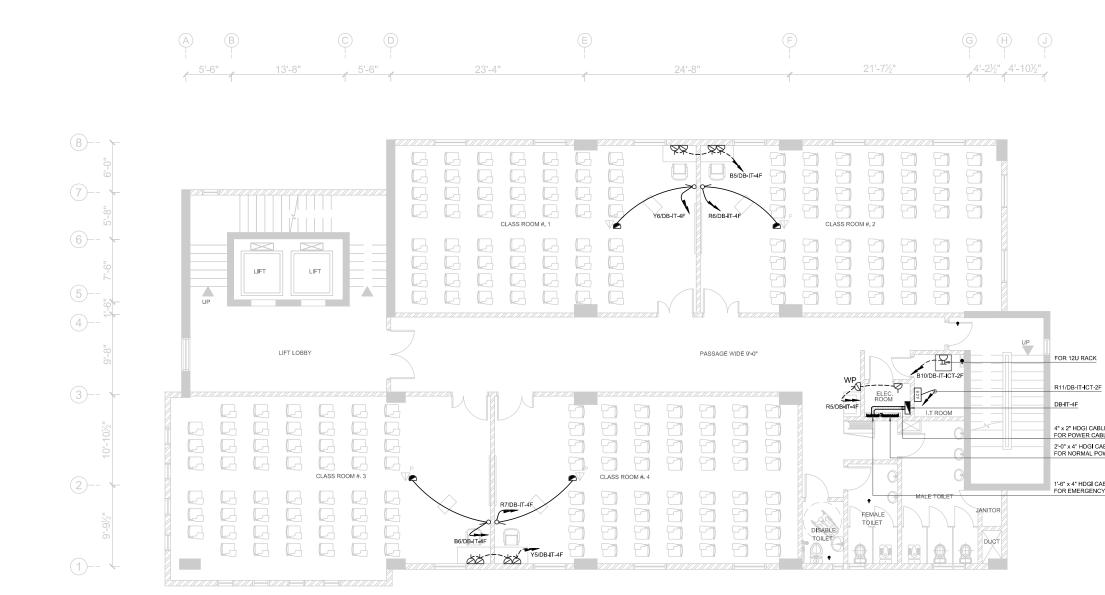
LEGEND FOR I	POWER SYSTEM
SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
6	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
þ	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
巴	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
۵	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

LEGEND FOR POWER SYSTEM	
SYMBOL	DESCRIPTION
6	SPN ISOLATOR
	TPN ISOLATOR
CP	CONTROL PANEL
	DISTRIBUTION BOARD (DB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)
Ø	POWER MANHOLE
۲	EARTH PIT FOR POWER
🕲 LP	EARTH PIT FOR LIGHTNING PROTECTION
2 2	EARTH BAR WITH SINGLE DISCONNECTING LINK

6" x 2" HDGI CABLE TRAY FOR POWER CABLES

4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES

Clier	nt :				
	Cuent :				
Con	sultant :				
	d Office:AL-9, nce Housing / ne No. 111 il : info@ea	Distribution of the second sec	Vet Ltcl He-Hilal,Phase 7, 5500 - Pakistan 5. 584-1825 www.eaworld.com		
DEVELOPMENT OF SMIU CAMPUS KARACHI					
hata	Key Plan :				
 All on Do On foll 	Note: • All Dimensions to be confirmed on site with architect. • Ornoutcale: • Ornoutcale: • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings /				
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Drawing Title : THIRD FLOOR PLAN POWER LAYOUT					
			Approved :		
Desi	PO gned :	Checked :	Approved : JIS		
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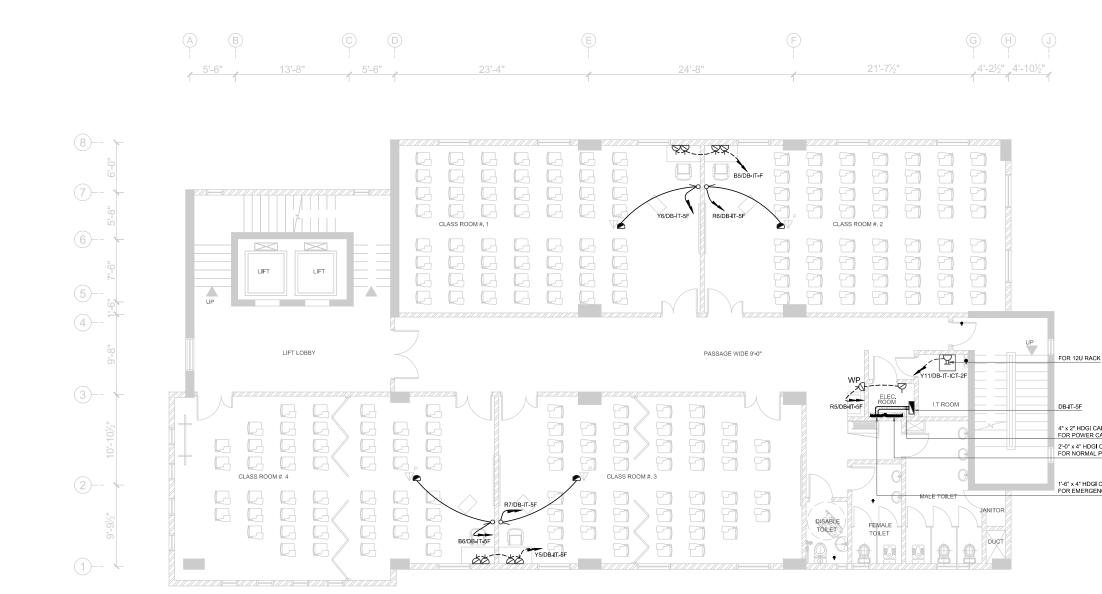


LEGEND FOR P	OWER SYSTEM
SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
Ø	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
Ø	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
巴	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
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6	10A 1-GANG SWITCH

SYMBOL	DESCRIPTION			
6	SPN ISOLATOR			
	TPN ISOLATOR			
CP	CONTROL PANEL			
	DISTRIBUTION BOARD (DB)			
	SUB MAIN DISTRIBUTION BOARD (SMDB)			
	MAIN DISTRIBUTION BOARD (MDB)			
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<u>* *</u>	EARTH BAR WITH SINGLE DISCONNECTING LINK			

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4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES

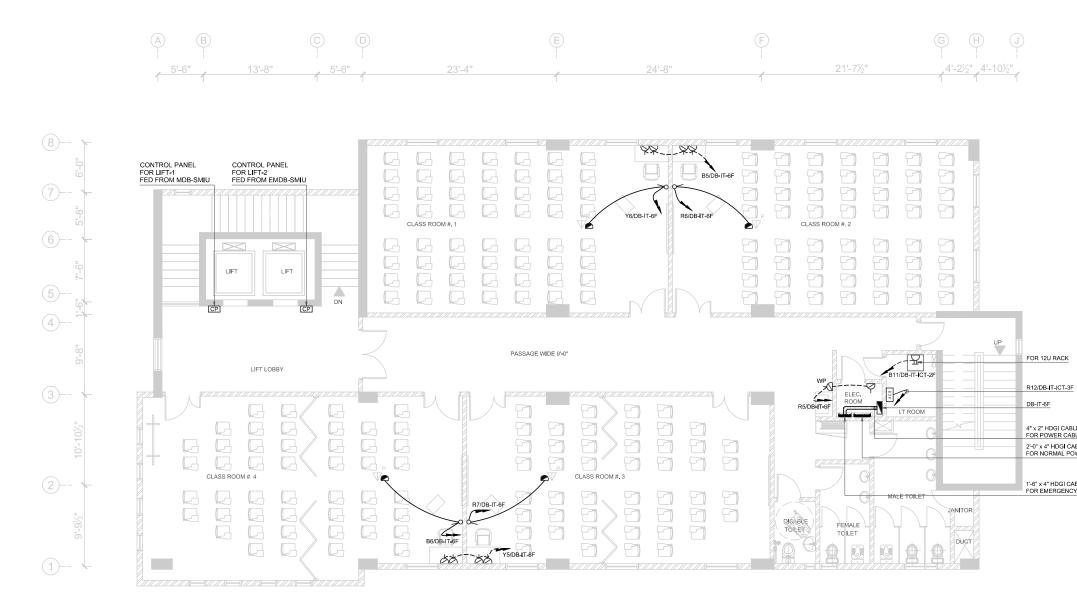


SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
6	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
西	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
۵	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

SYMBOL	DESCRIPTION			
6	SPN ISOLATOR			
2	TPN ISOLATOR			
CP	CONTROL PANEL			
	DISTRIBUTION BOARD (DB)			
	SUB MAIN DISTRIBUTION BOARD (SMDB)			
	MAIN DISTRIBUTION BOARD (MDB)			
	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)			
Ø	POWER MANHOLE			
۲	EARTH PIT FOR POWER			
🗑 LP	EARTH PIT FOR LIGHTNING PROTECTION			
<u>a a</u>	EARTH BAR WITH SINGLE DISCONNECTING LINK			

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4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES

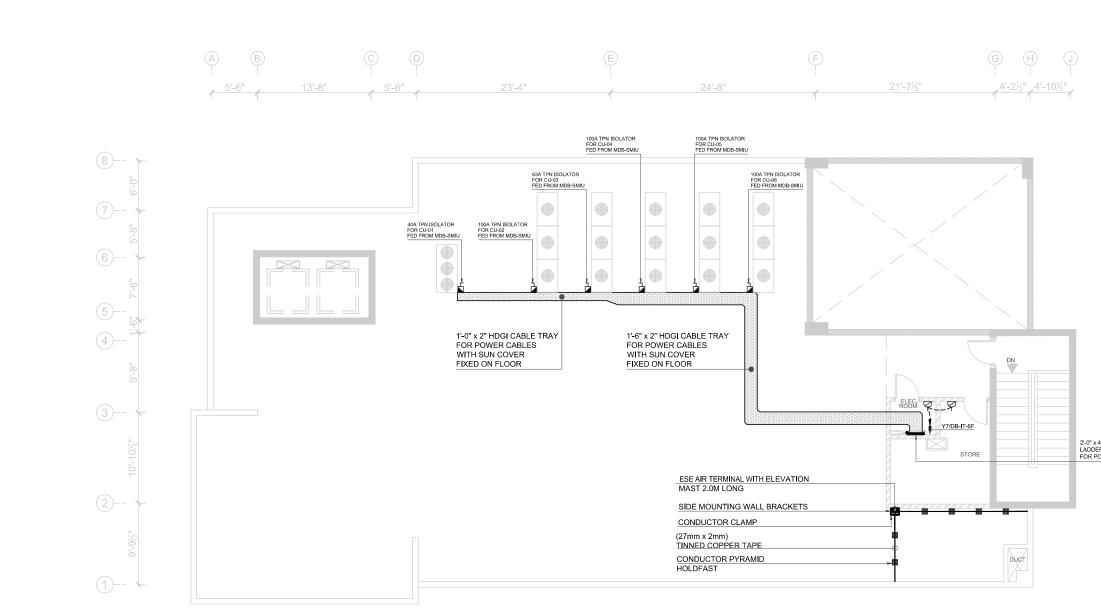


LEGEND FOR PO	OWER SYSTEM
SYMBOL	DESCRIPTION
	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)
۵	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)
呂	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET
6	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET
لم	16A 3 PIN INDUSTRIAL SOCKET
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA
6	10A 1-GANG SWITCH

LEGEND FOR POWER SYSTEM				
SYMBOL	DESCRIPTION			
Ъ	SPN ISOLATOR			
rN	TPN ISOLATOR			
CP	CONTROL PANEL			
	DISTRIBUTION BOARD (DB)			
X	SUB MAIN DISTRIBUTION BOARD (SMDB)			
X	MAIN DISTRIBUTION BOARD (MDB)			
X	EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)			
Ø	POWER MANHOLE			
۲	EARTH PIT FOR POWER			
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**	EARTH BAR WITH SINGLE DISCONNECTING LINK			

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4" x 2" HDGI CABLE TRAY FOR POWER CABLES 2'-0" x 4" HDGI CABLE TRAY RISER FOR NORMAL POWER CABLES



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LEGEND FOR POWER STSTEM		
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	5A 3 PIN 1-GANG SWITCHED SOCKET OUTLET (MOUNTED AT HIGH LEVEL)	
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	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ABOVE COUNTER TOP)	
Ø	13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET (MOUNTED ON FLOOR)	
B	13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET	
	13A 3 PIN FLAT 1-GANG UNSWITCHED SOCKET OUTLET	
9	15A 3 PIN 1-GANG SWITCHED SOCKET OUTLET	
۵	16A 3 PIN INDUSTRIAL SOCKET	
	FLOOR DISTRIBUTION BOX: 1 No 13A 3 PIN MULTI STANDARD SWITCHED SOCKET OUTLET 1 No 13A 3 PIN FLAT 2-GANG SWITCHED SOCKET OUTLET 1 No DUAL RJ-45 OUTLET FOR VOICE & DATA	
6	10A 1-GANG SWITCH	

SYMBOL DESCRIPTION		
6	SPN ISOLATOR	
2	TPN ISOLATOR	
CP	CONTROL PANEL	
	DISTRIBUTION BOARD (DB)	
X	SUB MAIN DISTRIBUTION BOARD (SMDB)	
X	MAIN DISTRIBUTION BOARD (MDB)	
EMERGENCY MAIN DISTRIBUTION BOARD (EMDB)		
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All is no second s	Dimensions is site with arc of a state with arc of a state of a st	Issued For TENDER DESCRIPTION REVISIONS 29th June 2018 Client Tender ECTRICAL TENDER TENDER PLAN - POWER & ING PROTECTION STEM LAYOUT Checked : Approved : ME Scale Street, 15 Street Street, 15 Client Tender Client
All Issue Desi Desi Desi Desi Desi	Dimensions is site with arc of a scale. your tend of a scale. you with end of a scale. You with	Issued For TENDER DESCRIPTION REVISIONS 29th June 2018 Client Tender ECTRICAL TENDER TENDER PLAN - POWER & ING PROTECTION STEM LAYOUT Checked : Approved : ME Scale Street, 15 Street Street, 15 Client Tender Client

2'-0" x 4" HDGI CABLE LADDER RISER FOR POWER CABLES

DEVELOPMENT OF SMIU CAMPUS KARACHI

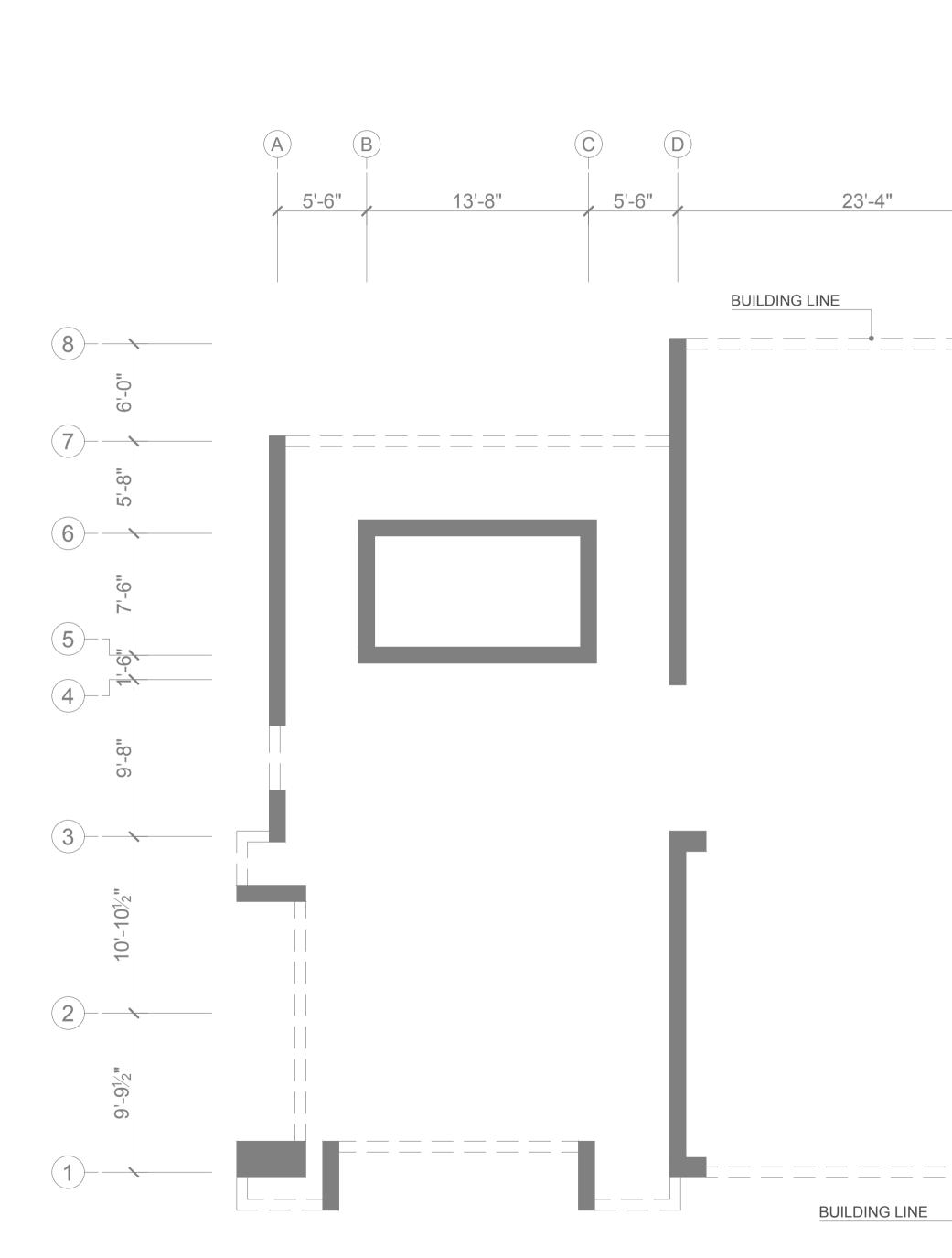


TENDER DRAWINGS ELV & IT SYSTEM



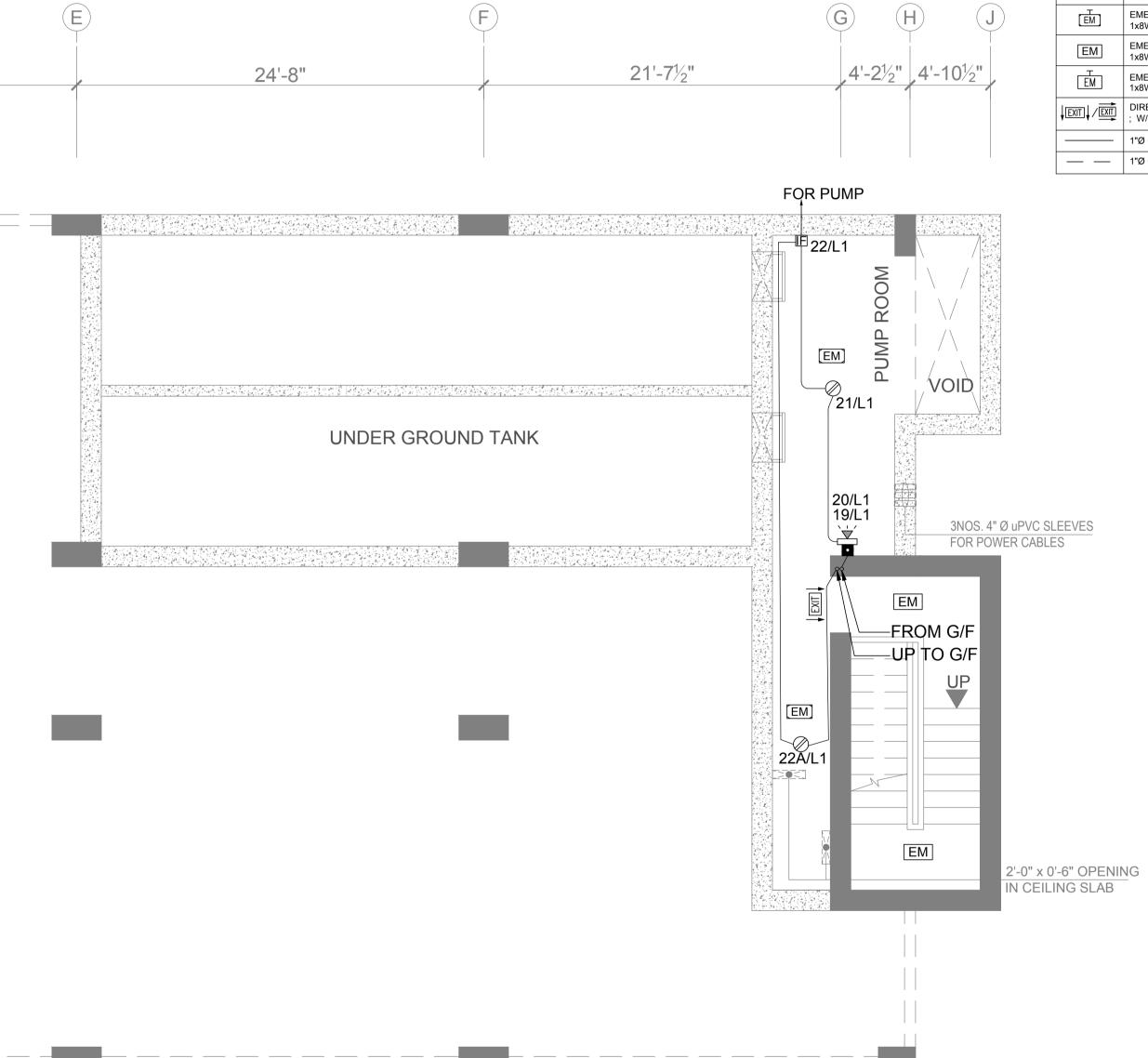
IT BLOCK City Campus





Area - 1373.02 sq ft.





SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
ì	WALL SOUNDER WITH FLASHER / STROBE
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ↓	FOR PUMP
ſ	PAGING MICROPHONE (7 ZONE)
MM	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
ŝ	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR



Client :

Consultant :

EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com	
Project : DEVELOPMENT OF SMIU CAMPUS KARACHI	
Key Plan :	
 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 	
0 25, May 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS Date of Issue 25th May 2018 Issued To Client Issued For	
ELECTRICAL	
Status: CONCEPT	
Building Name: I.T BLOCK CITY CAMPUS	
Drawing Title : BASEMENT PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT	

NOTE : ALL EQUIPMENTS ARE ON HOLD. ONLY CABLING & CONDUITING INCLUDED. Drawing No. : EA-00986-SIT-FA-0010

Designed :

Project Code :

Drawn :

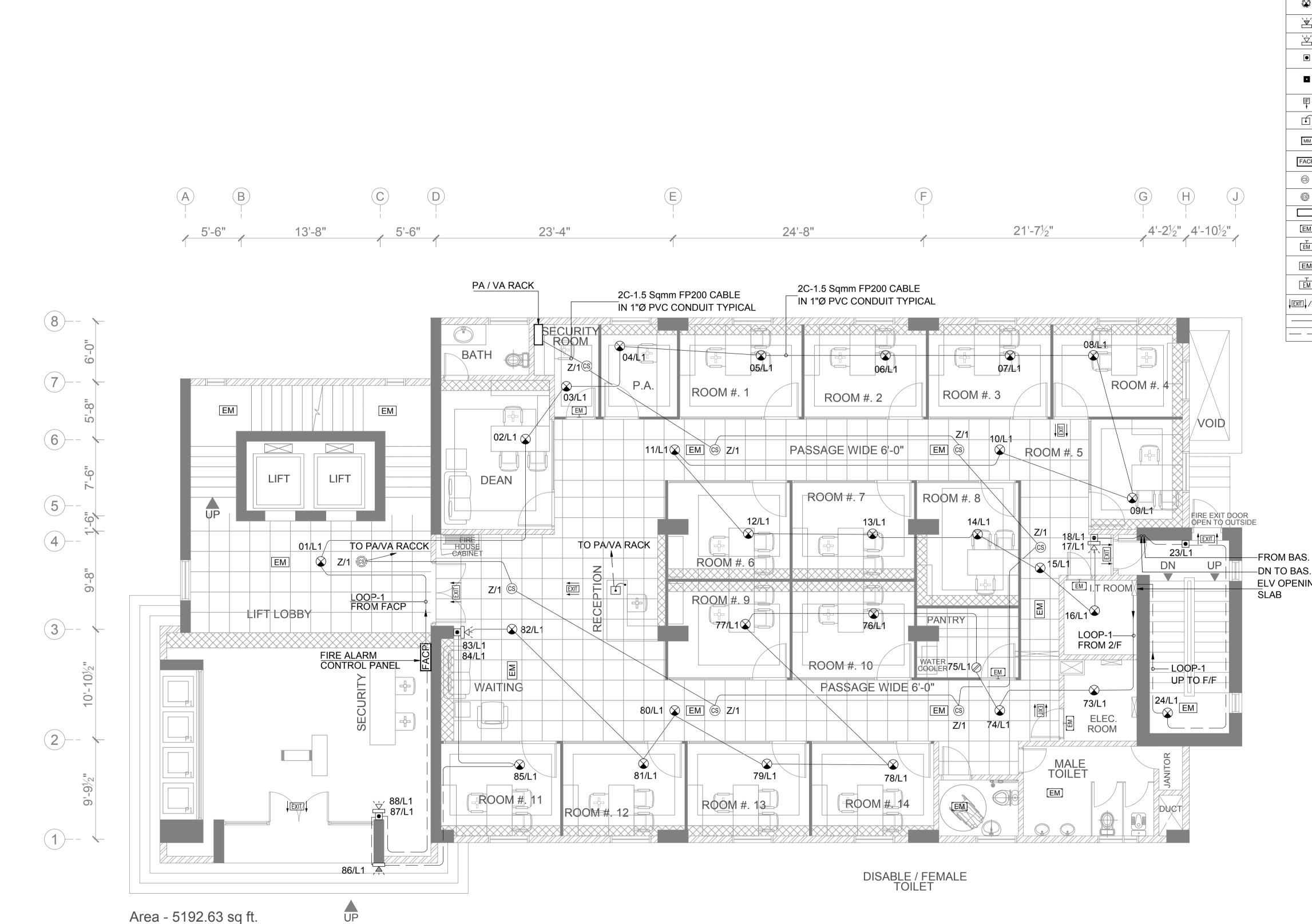
Checked :

00986

Date

Approved

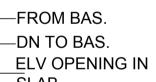
Scale / Sheet . 3/32"=1'-0"@A3 3/16"=1'-0"@A1 Rev. :



Area - 5192.63 sq ft.

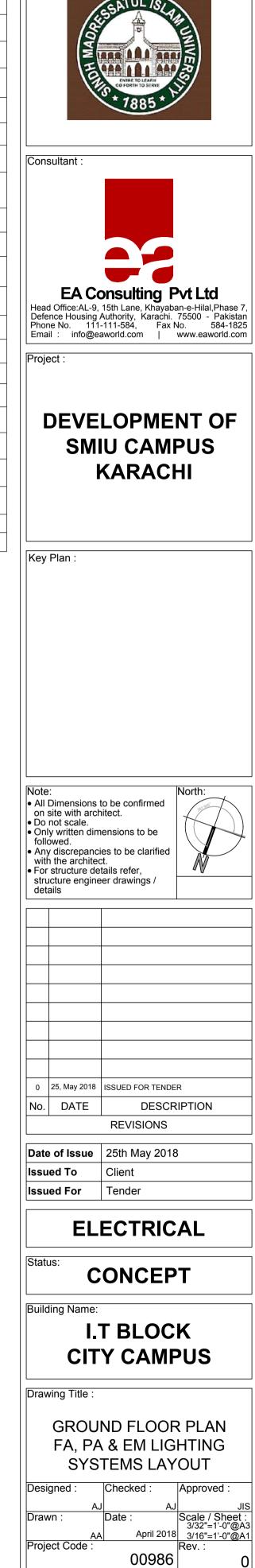
SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
۵	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ↓	FOR PUMP
ſ	PAGING MICROPHONE (7 ZONE)
ММ	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
cs	PA / VA CEILING SPEAKER MOUNTED (6W)
69	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT(IP-65) ;W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR

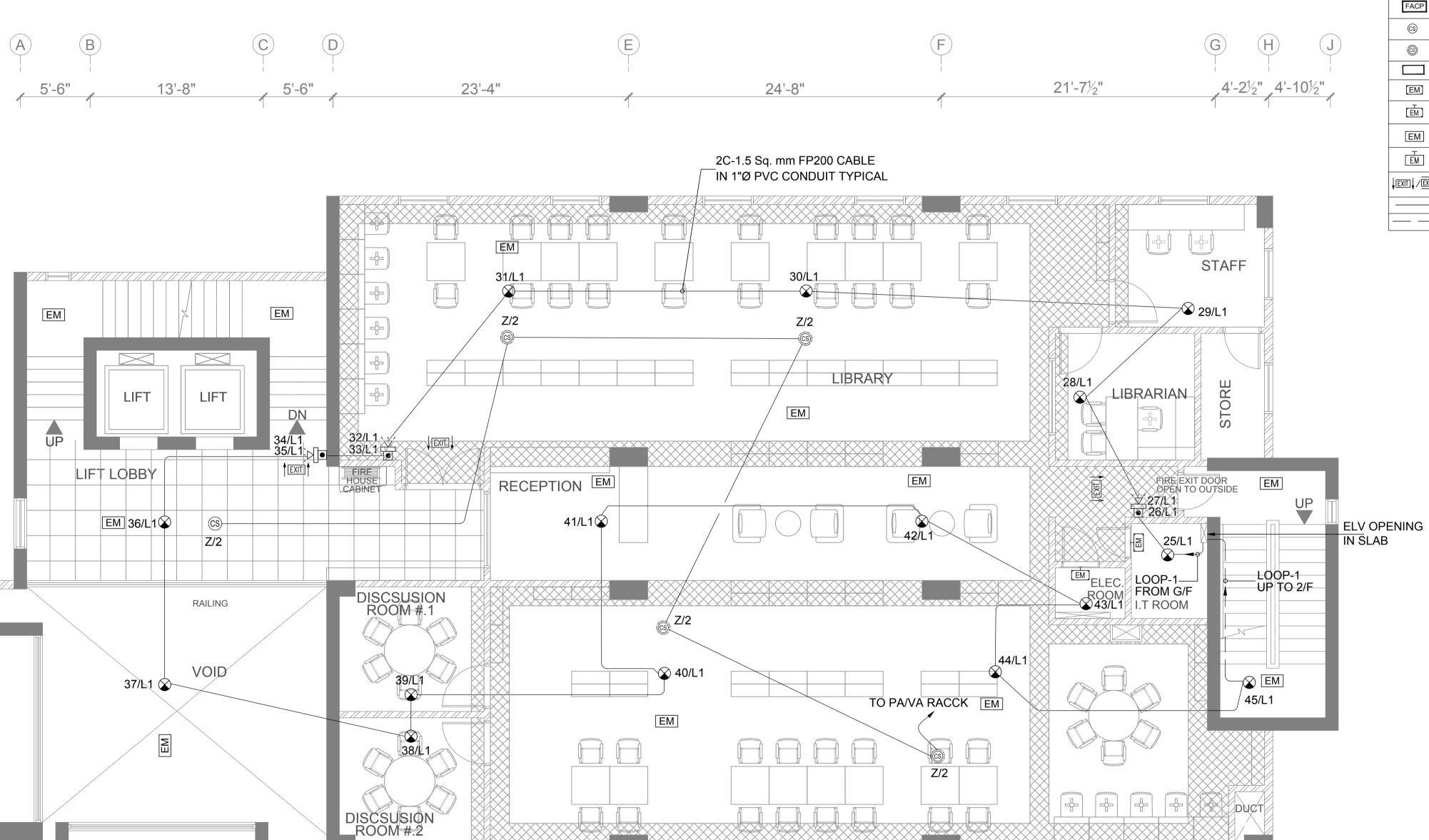
Client

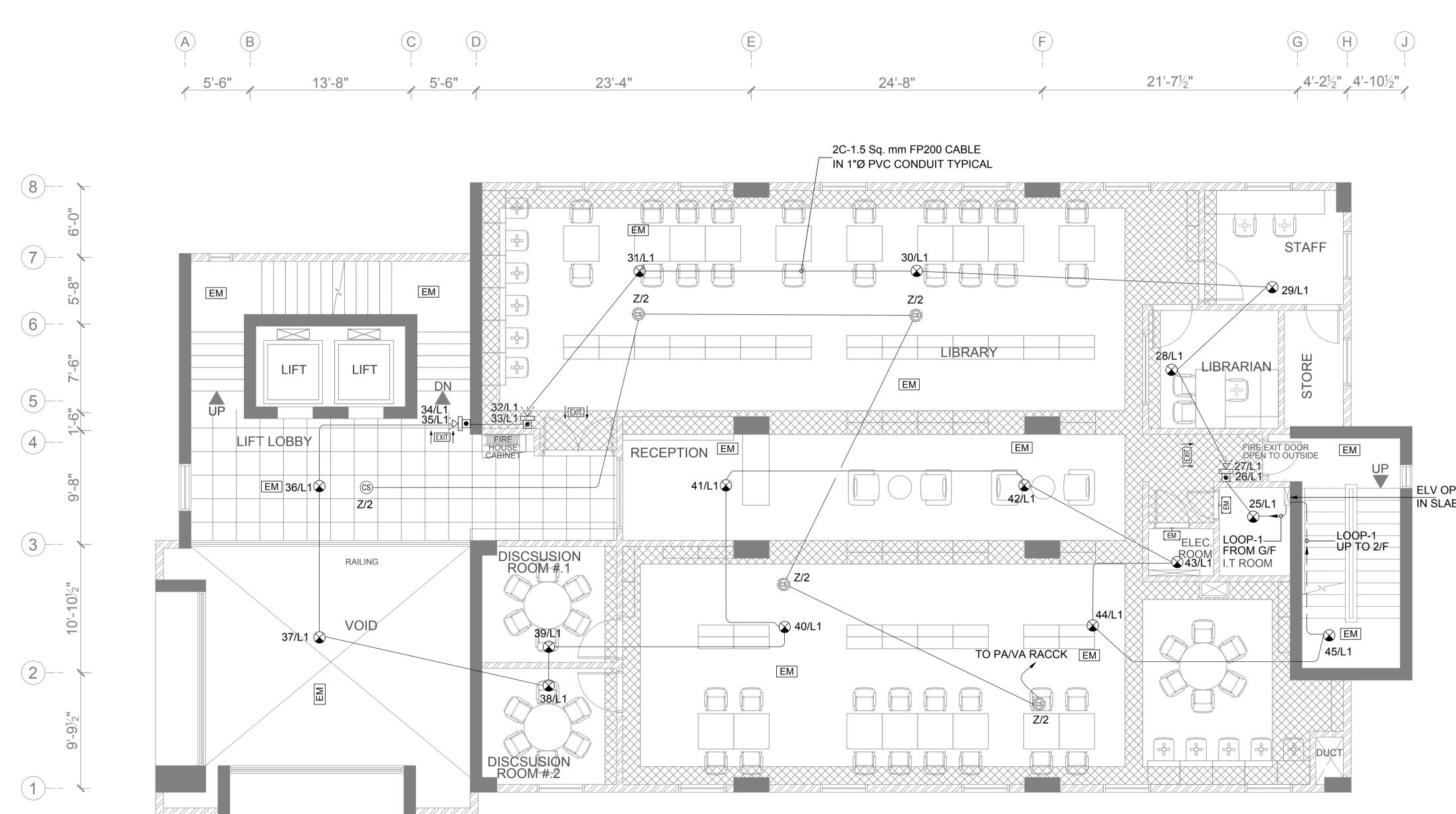


EQUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED

Drawing No.





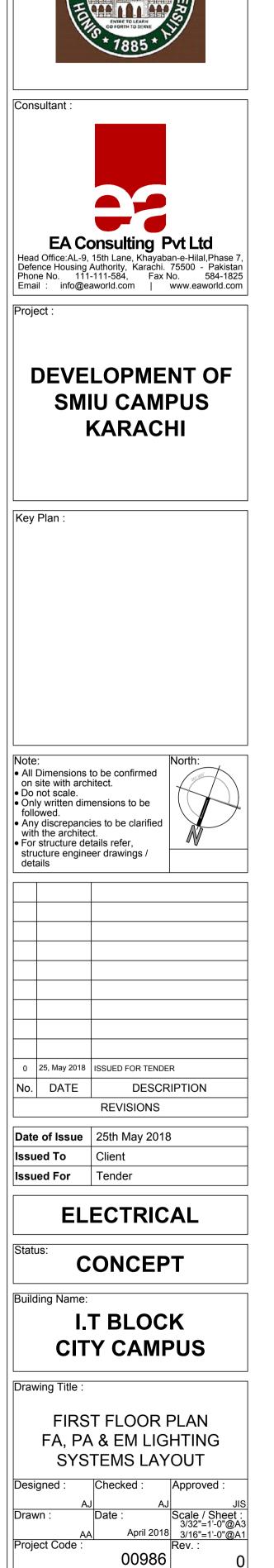


Area - 4735.95 sq ft.

NOTE :

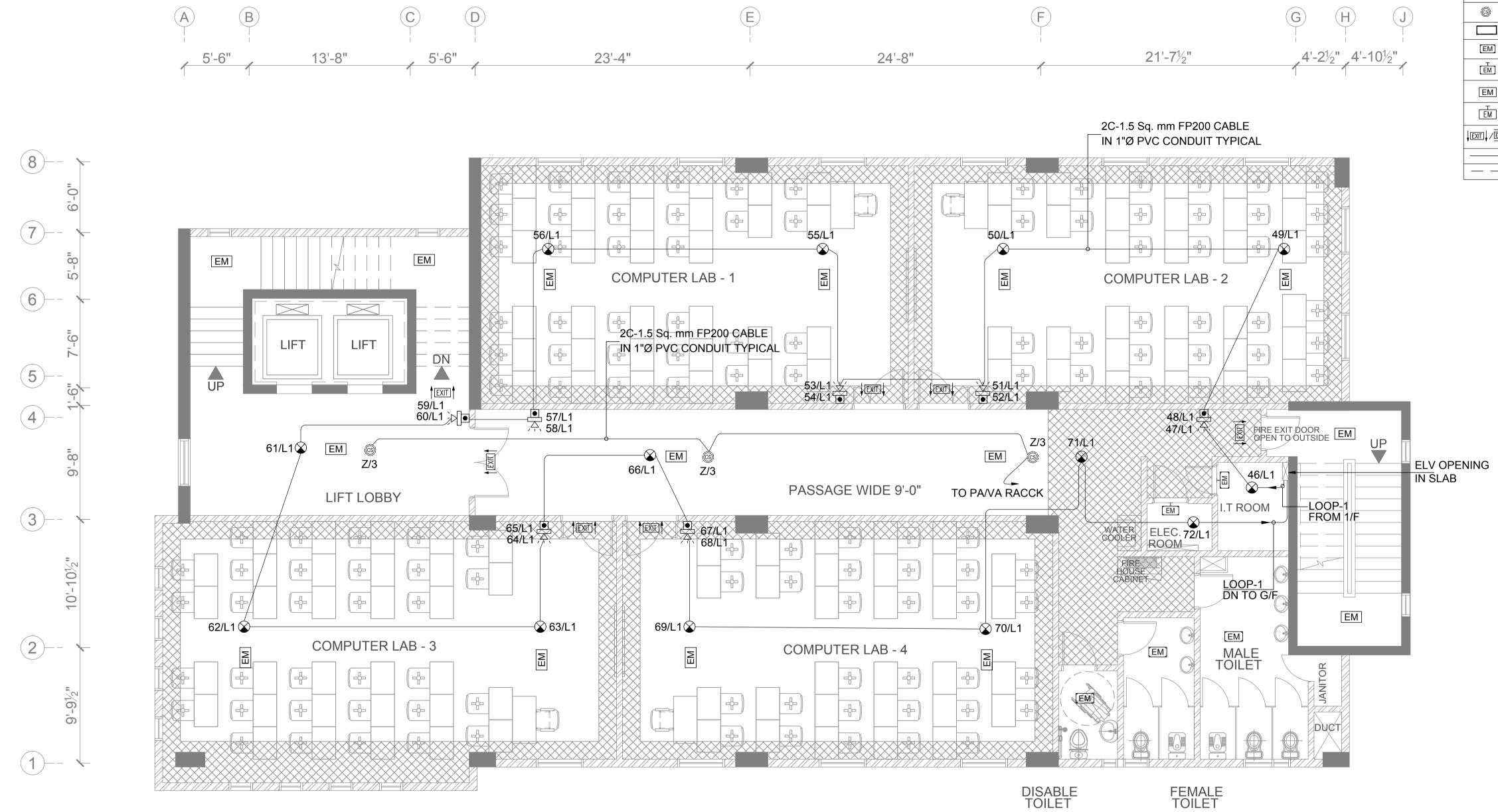
SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
Ô	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
۵	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ▼	FOR PUMP
	PAGING MICROPHONE (7 ZONE)
MM	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
©)	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT(IP-65) ;W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR

Client :



ALL EQUIPMENTS ARE ON HOLD. ONLY CABLING & CONDUITING INCLUDED.

Drawing No.



Area - 5192.63 sq ft.

SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
۲	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ↓	FOR PUMP
	PAGING MICROPHONE (7 ZONE)
ММ	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
ß	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT(IP-65) ;W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR





Consultant :



EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com

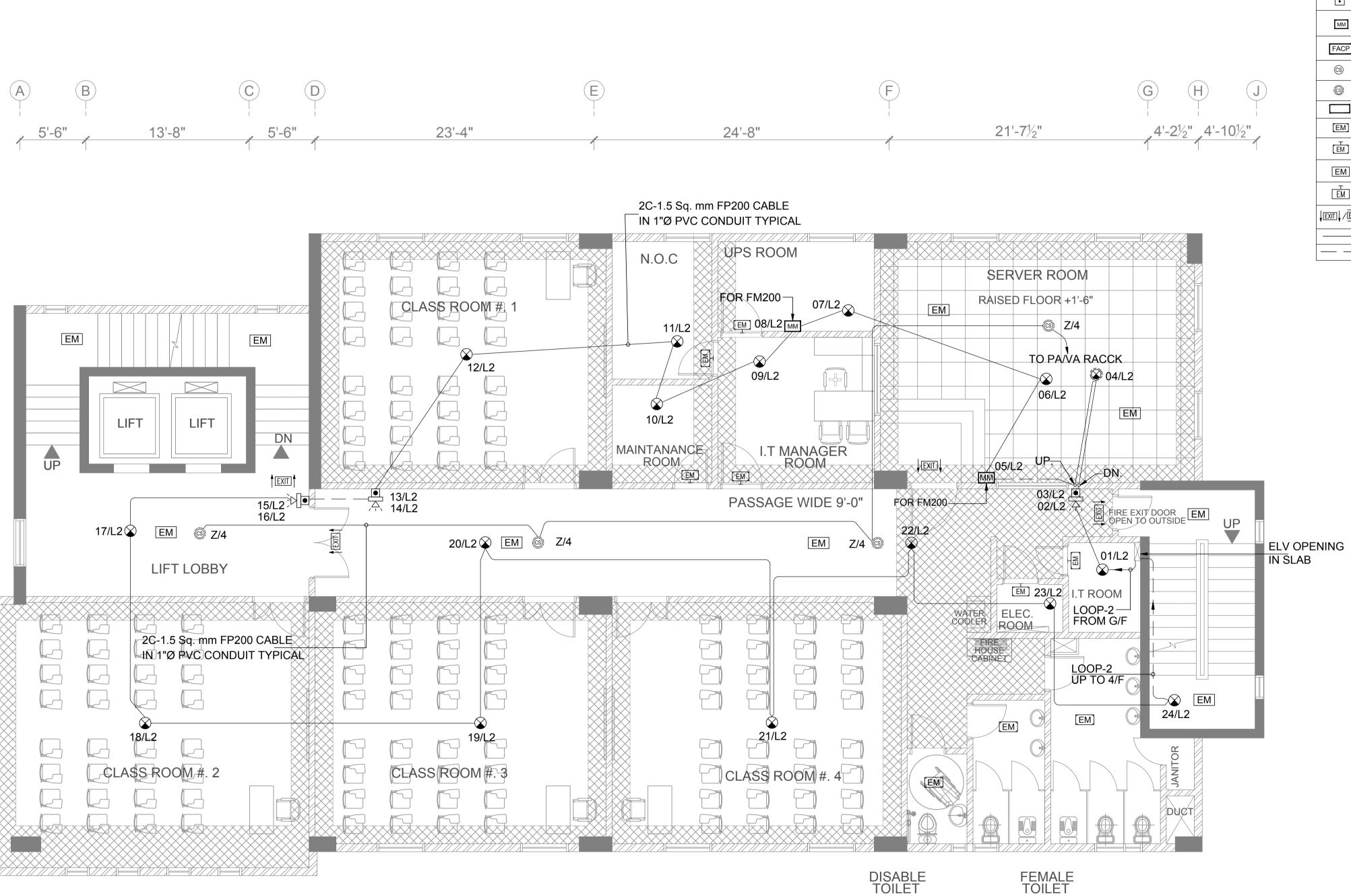
DEVELOPMENT OF SMIU CAMPUS KARACHI

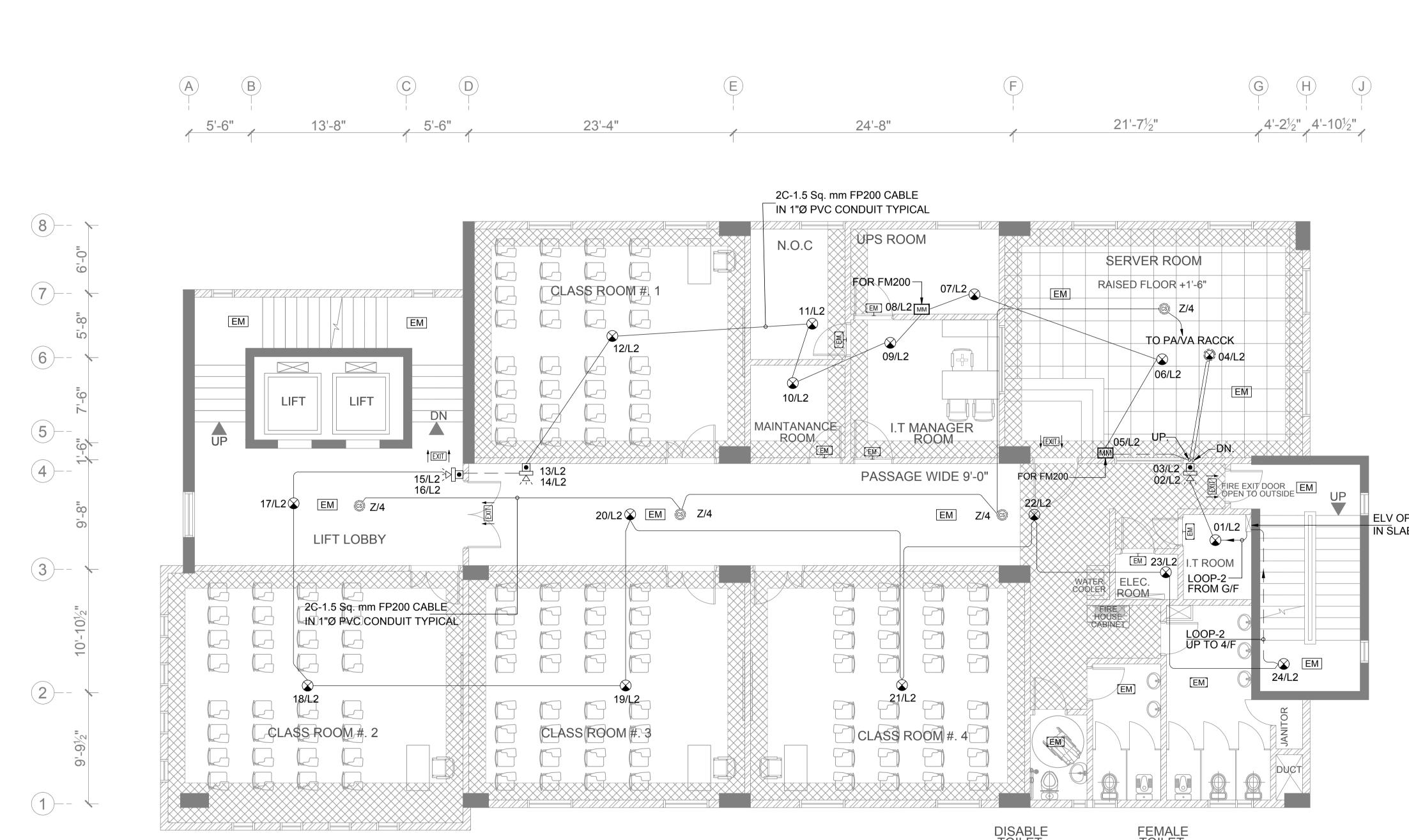
Key Plan :

Project :

EQUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED

 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 			
0	25, May 2018	ISSUED FOR TENDER	
No.	DATE	DESCRIPTION	
		REVISIONS	
-	e of Issue	25th May 2018	
	led To led For	Client	
	EL	ECTRICAL	
Stati		ONCEPT	
Building Name: I.T BLOCK CITY CAMPUS			
Drav	ving Title :		
SECOND FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT			
Desi	gned :	Checked : Approved :	
Drav	A. vn :	Date : Scale / Sheet :	
Proje	AA ect Code :	A April 2018 3/32"=1'-0"@A3 3/16"=1'-0"@A1 3/16"=1'-0"@A1 Rev. : 00986 0	
Dray	vina No ·		





Area - 5192.63 sq ft.

SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
Ô	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
۲	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
۵	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ▼	FOR PUMP
ſ	PAGING MICROPHONE (7 ZONE)
MM	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
G	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR



Consultant :

Client



EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com

DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan

Project :

North: • All Dimensions to be confirmed on site with architect.
Do not scale. • Only written dimensions to be

- only which dimensions to be followed.
 Any discrepancies to be clarified with the architect.
 For structure details refer, structure engineer drawings / details

- 0 25, May 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS Date of Issue 25th May 2018 Issued To Client

ELECTRICAL

Status: CONCEPT

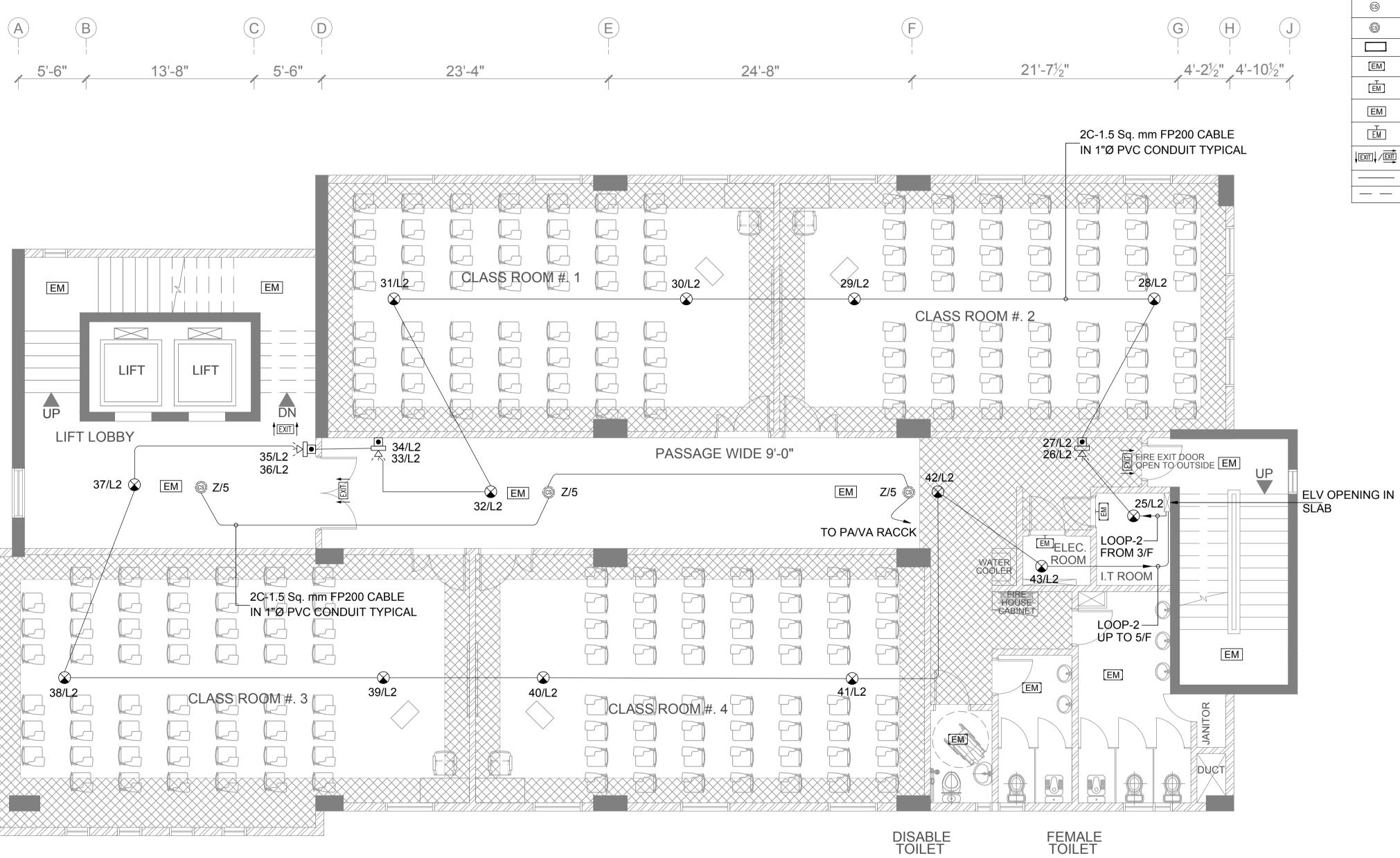
Issued For Tender

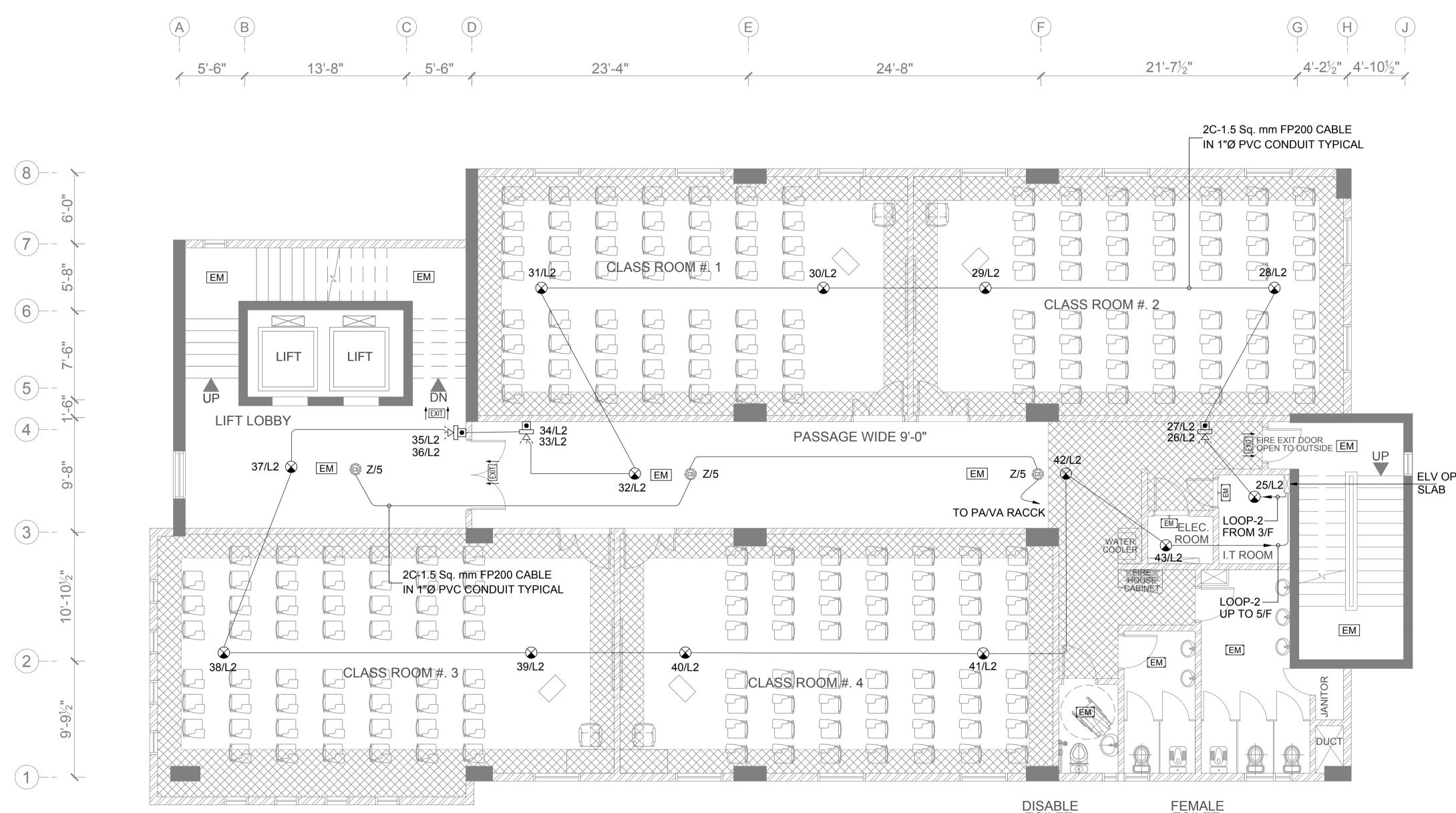
Building Name: I.T BLOCK **CITY CAMPUS**

Drawing Title

THIRD FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT			
Designed :	Checked :	Approved :	
AJ	AJ	JIS	
Drawn :	Date :	Scale / Sheet : 3/32"=1'-0"@A3	
AA	April 2018	3/16"=1'-0"@A1	
Project Code : Rev. :			
	00986	0	
Drawing No. :			
EA-00986-SIT-FA-0400			

ALL EQUIPMENTS ARE ON HOLD. ONLY CABLING & CONDUITING INCLUDED.





Area - 5192.63 sq ft.

SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
۲	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
۵	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
lF ↓	FOR PUMP
Ŀ	PAGING MICROPHONE (7 ZONE)
ММ	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
ß	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR
······································	1"Ø CONDUIT IN CEILING SLAB



Consultant :

Client :



EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com

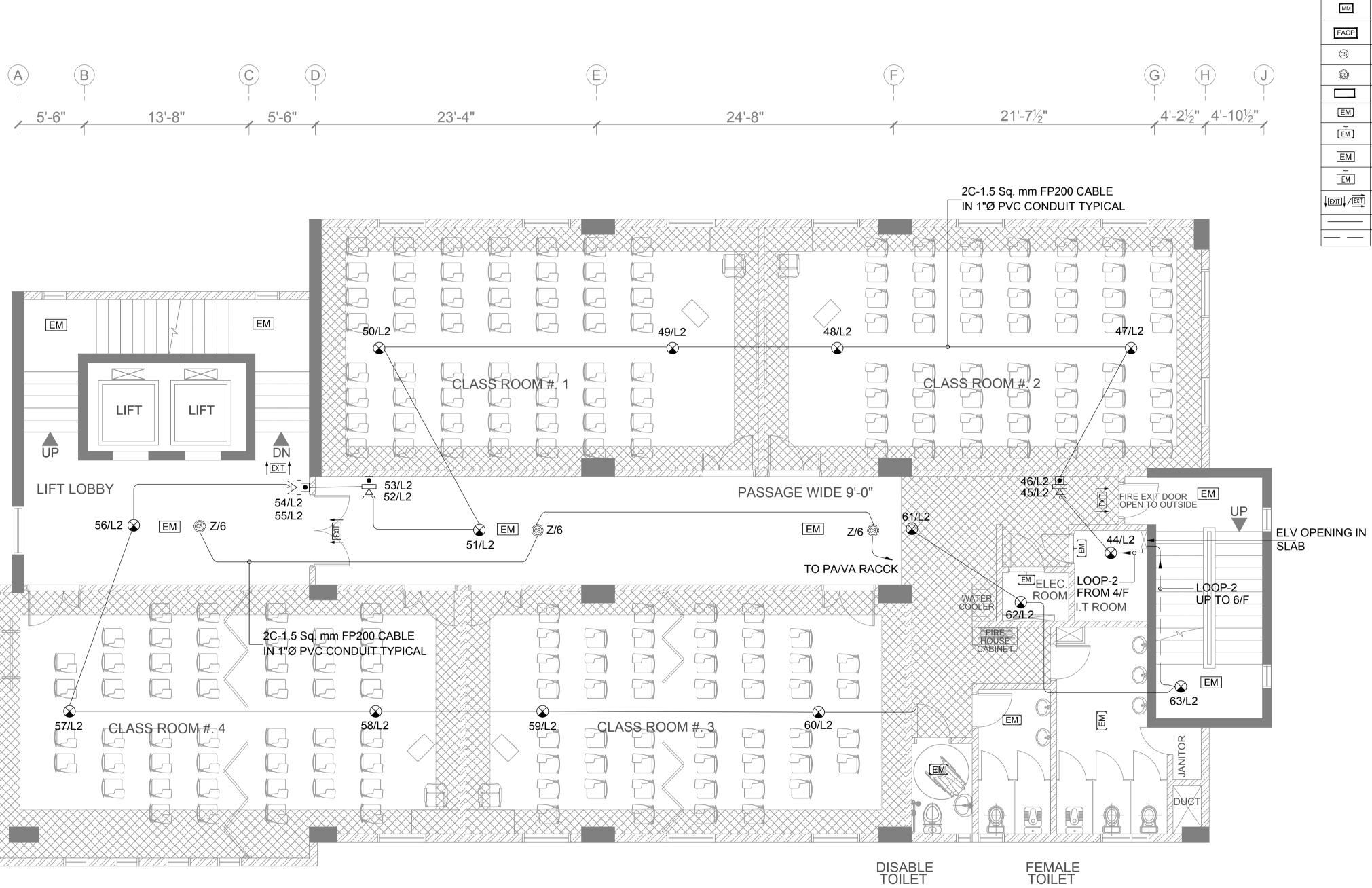
DEVELOPMENT OF SMIU CAMPUS KARACHI

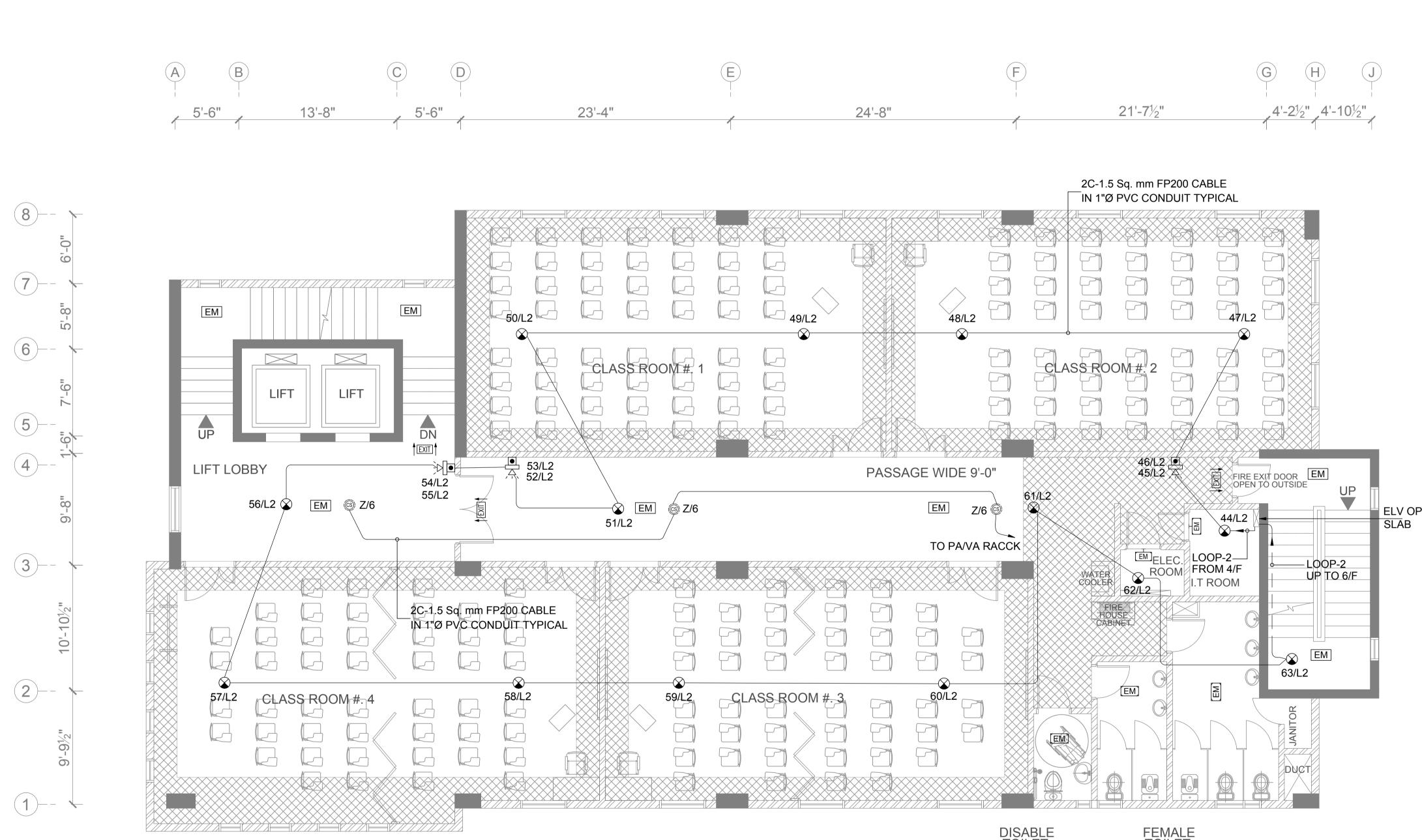
Key Plan :

Project :

- •
EQUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED.

 All on Do On foll An wit For structure 	 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 			
0	25, May 2018	ISSUED FOR TENDE		
No.	DATE		RIPTION	
		REVISIONS		
	e of Issue	25th May 2018	3	
	ied To	Client		
Issi	led For	Tender		
	EL	ECTRIC	AL	
Stat	Status: CONCEPT			
Build	ding Name:			
	I.'	T BLOC	K	
	CIT	Y CAMF	PUS	
Drawing Title :				
FOURTH FLOOR PLAN				
FA, PA & EM LIGHTING				
SYSTEMS LAYOUT				
Des	Designed : Checked : Approved :			
Drav	AJ AJ JIS Drawn : Date : Scale / Sheet : 3/32"=1'-0"@A3			
Proj	AA April 2018 3/16"=1'-0"@A1 Project Code : Rev. :			
			-	
Dray	wing No. :	00986	0	





Area - 5192.63 sq ft.

SYMBOL	DESCRIPTION	
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR	
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR	
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR	
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE	
Ì	WALL SOUNDER WITH FLASHER / STROBE	
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT	
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE	
IF ▼	FOR PUMP	
ſ	PAGING MICROPHONE (7 ZONE)	
MM	FIRE ALARM MONITOR MODULE	
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)	
CS	PA / VA CEILING SPEAKER MOUNTED (6W)	
ŝ	PA / VA SURFACE SPEAKER WITH BOX (6W)	
	PA / VA RACK	
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)	
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)	
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)	
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)	
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE	
	1"Ø CONDUIT IN CEILING SLAB	
	1"Ø CONDUIT IN FLOOR	



Client :

Consultant :



EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com

DEVELOPMENT OF SMIU CAMPUS KARACHI

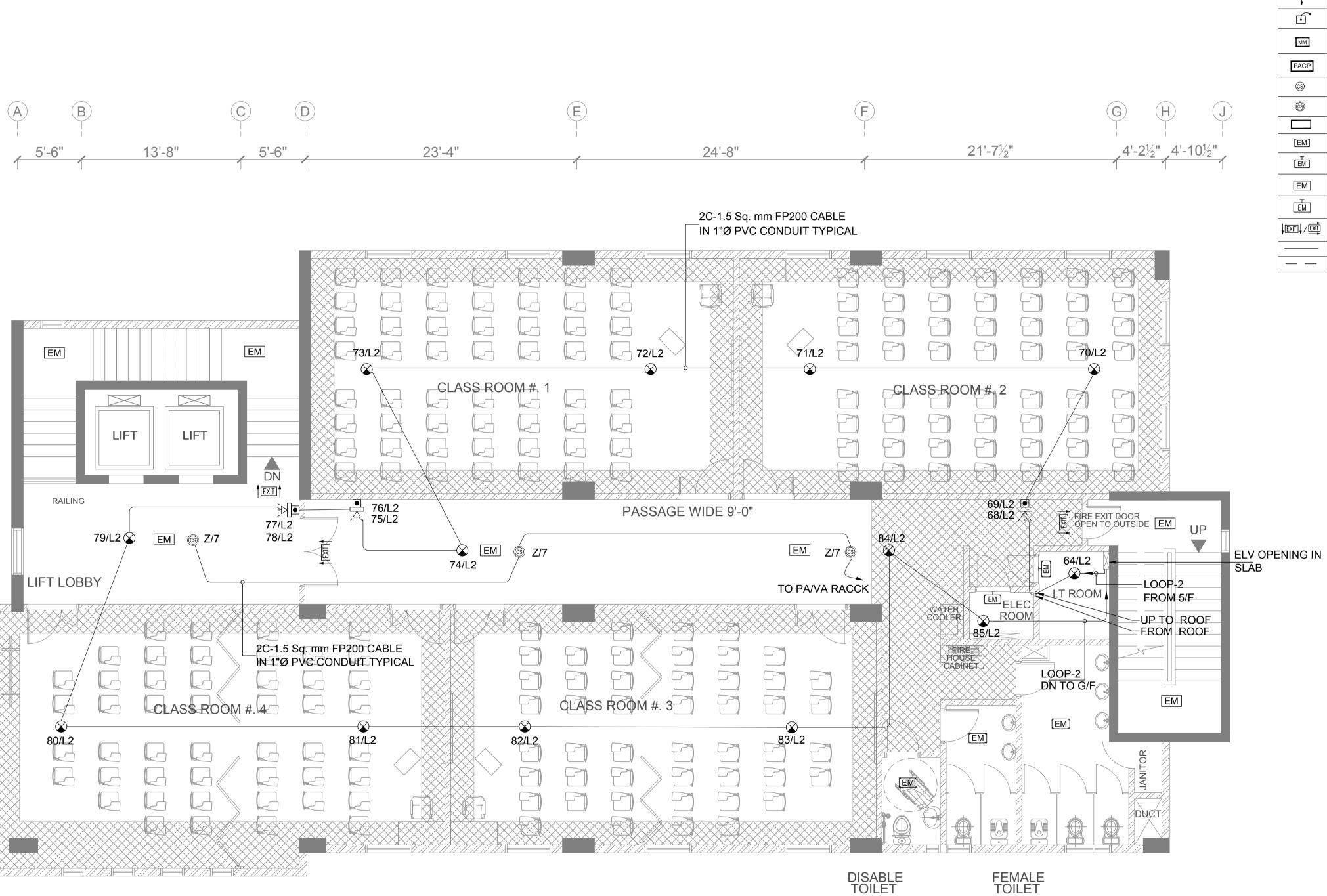
Key Plan :

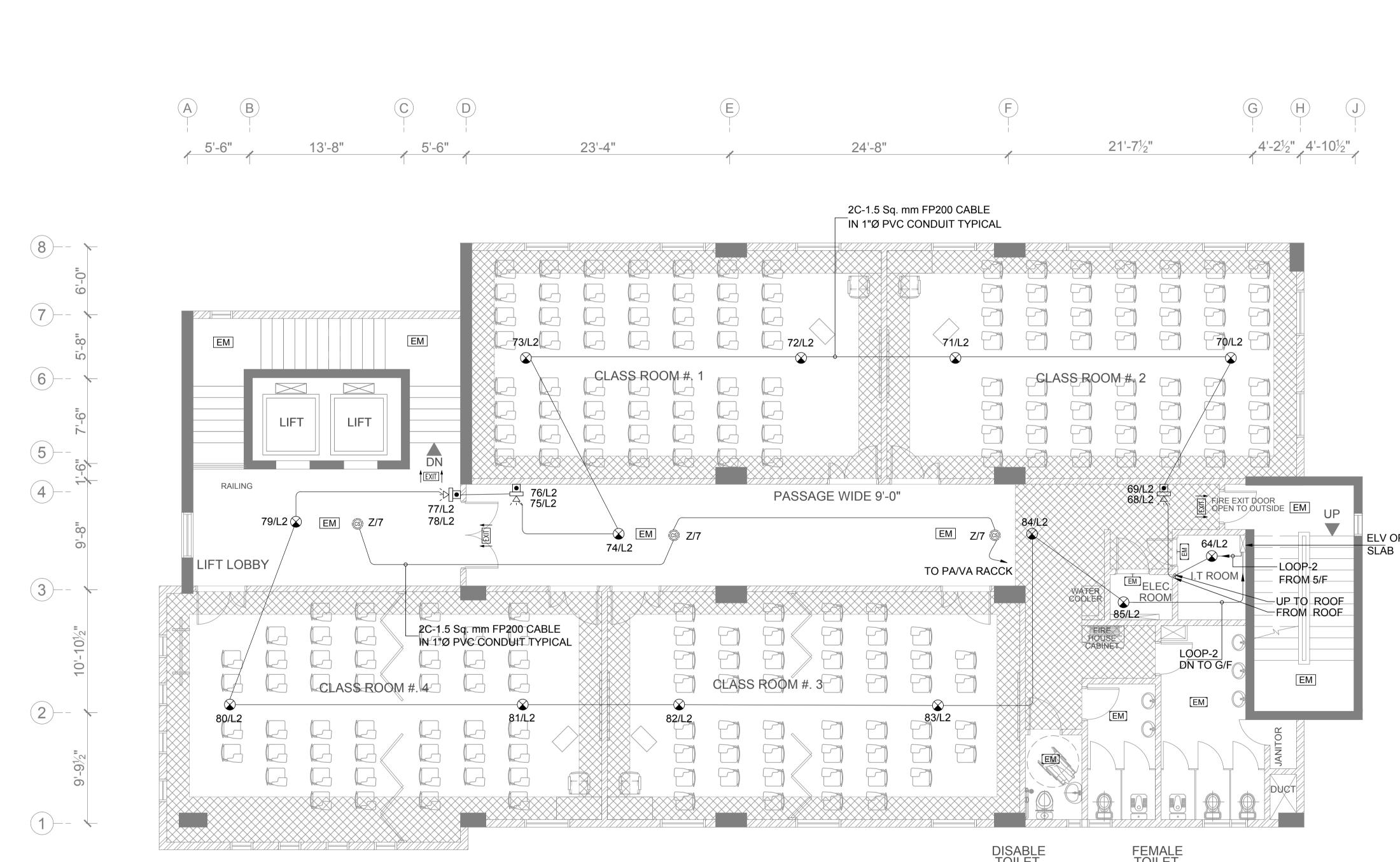
Project :

QUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED.

 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 			
0 25, May 2018	ISSUED FOR TENDER		
No. DATE	DESCRIPTION		
	REVISIONS		
Date of Issue	25th May 2018		
Issued To	Client		
Issued For	Tender		
EL	ECTRICAL		
Status: CONCEPT			
Building Name: I.T BLOCK CITY CAMPUS			
Drawing Title :			
FIFTH FLOOR PLAN			
FA, PA & EM LIGHTING			
SYSTEMS LAYOUT			
Designed :	Checked : Approved :		
A. Drawn :	AJ JIS Date : Scale / Sheet :		
AA	April 2018 3/16"=1'-0"@A1		
Project Code :	00986 0		

Drawing No. :





Area - 5192.63 sq ft.

SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ↓	FOR PUMP
	PAGING MICROPHONE (7 ZONE)
ММ	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
©9	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR



Client

Consultant :

EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com Project : **DEVELOPMENT OF** SMIU CAMPUS KARACHI Key Plan North: • All Dimensions to be confirmed on site with architect.
Do not scale.
Only written dimensions to be only which dimensions to be followed.
Any discrepancies to be clarified with the architect.
For structure details refer, structure engineer drawings / details //\//

0 25, May 2018 ISSUED FOR TENDER

Date of Issue 25th May 2018

Issued To Client

Issued For Tender

DESCRIPTION

REVISIONS

ELECTRICAL

CONCEPT

I.T BLOCK

CITY CAMPUS

SIXTH FLOOR PLAN FA, PA & EM LIGHTING SYSTEMS LAYOUT

Checked :

00986

EA-00986-SIT-FA-0700

Date :

Approved :

April 2018 Scale / Sheet : 3/32"=1'-0"@A3 3/16"=1'-0"@A1 Rev. :

No. DATE

Status:

Building Name:

Drawing Title :

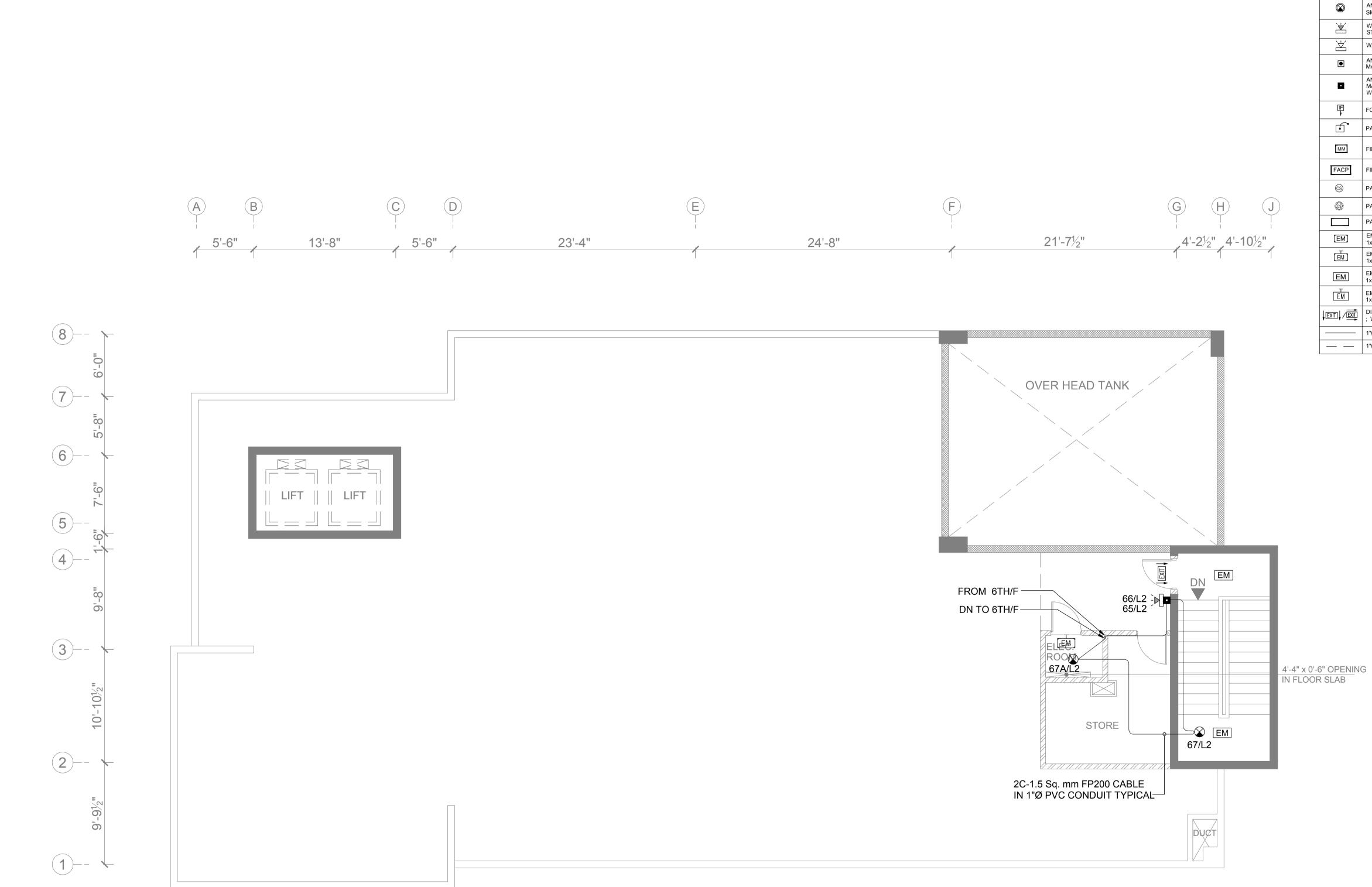
Designed :

Project Code

Drawing No.

Drawn :

QUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED.



Area - 930.94 sq ft.

SYMBOL	DESCRIPTION
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR
\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR INSIDE RAISED FLOOR
Ì	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
Ì	WALL SOUNDER WITH FLASHER / STROBE
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE
IF ▼	FOR PUMP
ſ	PAGING MICROPHONE (7 ZONE)
ММ	FIRE ALARM MONITOR MODULE
FACP	FIRE ALARM CONTROL PANEL (ADDRESSABLE)
CS	PA / VA CEILING SPEAKER MOUNTED (6W)
6	PA / VA SURFACE SPEAKER WITH BOX (6W)
	PA / VA RACK
[EM]	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (IP65 LED LAMP)
EM	EMERGENCY LIGHT (CEILING / SURFACE) 1x8W (LED LAMP)
ĒM	EMERGENCY LIGHT (WALL MOUNTED) 1x8W (LED LAMP)
	DIRECTIONAL PANDENT 1x8W EXIT LIGHT (IP-65) ; W/P DENOTES WEATHER PROOF LED TYPE
	1"Ø CONDUIT IN CEILING SLAB
	1"Ø CONDUIT IN FLOOR



Client :

Consultant :

EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com | www.eaworld.com Project :

DEVELOPMENT OF SMIU CAMPUS KARACHI

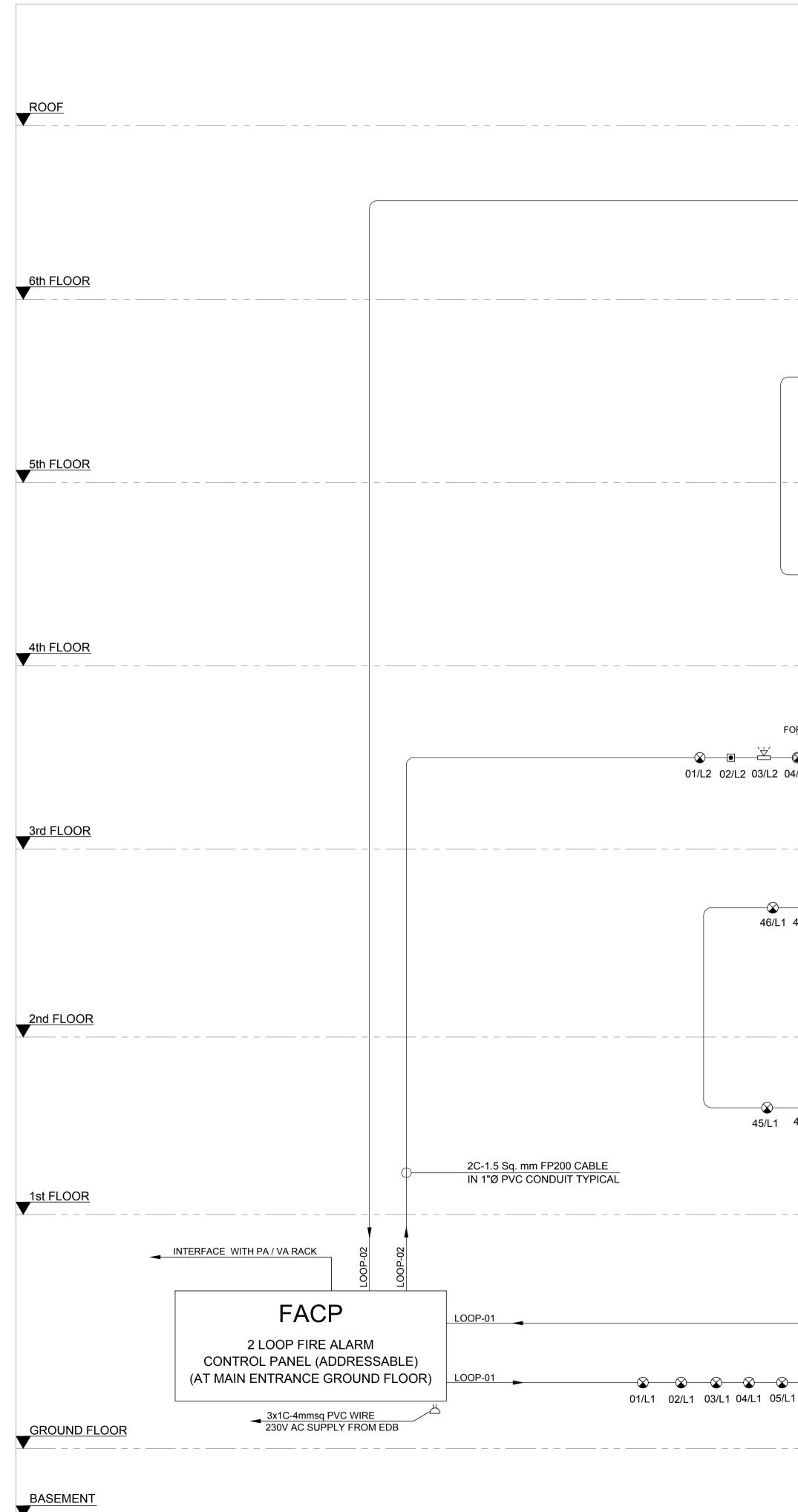
Key Plan :

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EQUIPMENTS ARE ON HOLD.
CABLING & CONDUITING INCLUDED.

 Note: All Dimensions to be confirmed on site with architect. Do not scale. Only written dimensions to be followed. Any discrepancies to be clarified with the architect. For structure details refer, structure engineer drawings / details 			
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Date of Issue		25th May 2018	}
Issued To		Client	
Issued For		Tender	
ELECTRICAL			
Status: CONCEPT			
Building Name:			

I.T BLOCK **CITY CAMPUS**

Drawing Title :							
FA, PA	ROOF PLAN & EM LIG TEMS LAY	HTING					
Designed :	Checked :	Approved :					
AJ	AJ	JIS					
Drawn : AA	Date : April 2018	Scale / Sheet : 3/32"=1'-0"@A3 3/16"=1'-0"@A1					
Project Code :		Rev. :					
-	00986	0					
Drawing No. : EA	∿-00986-SI ⁻	T-FA-0800					

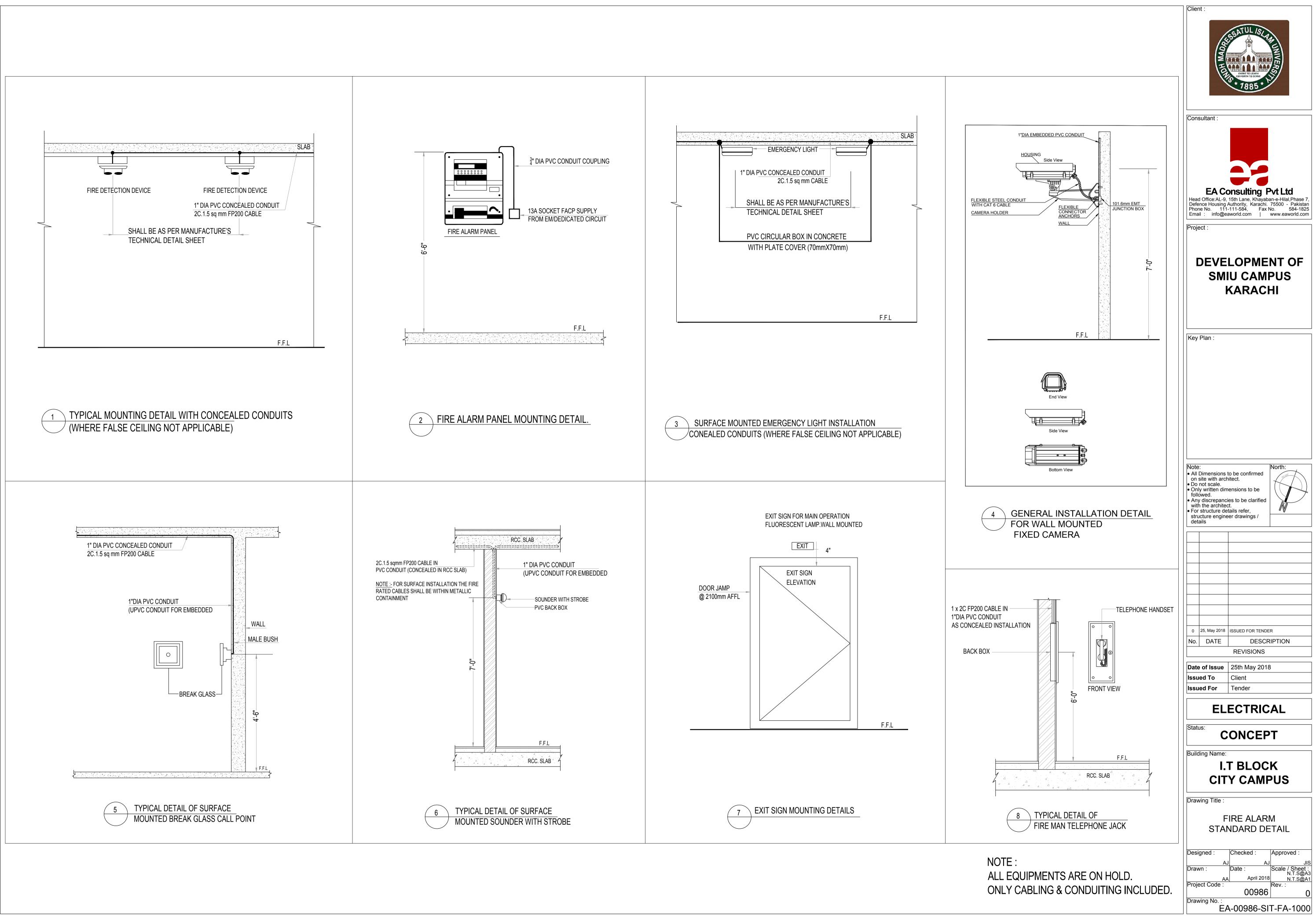


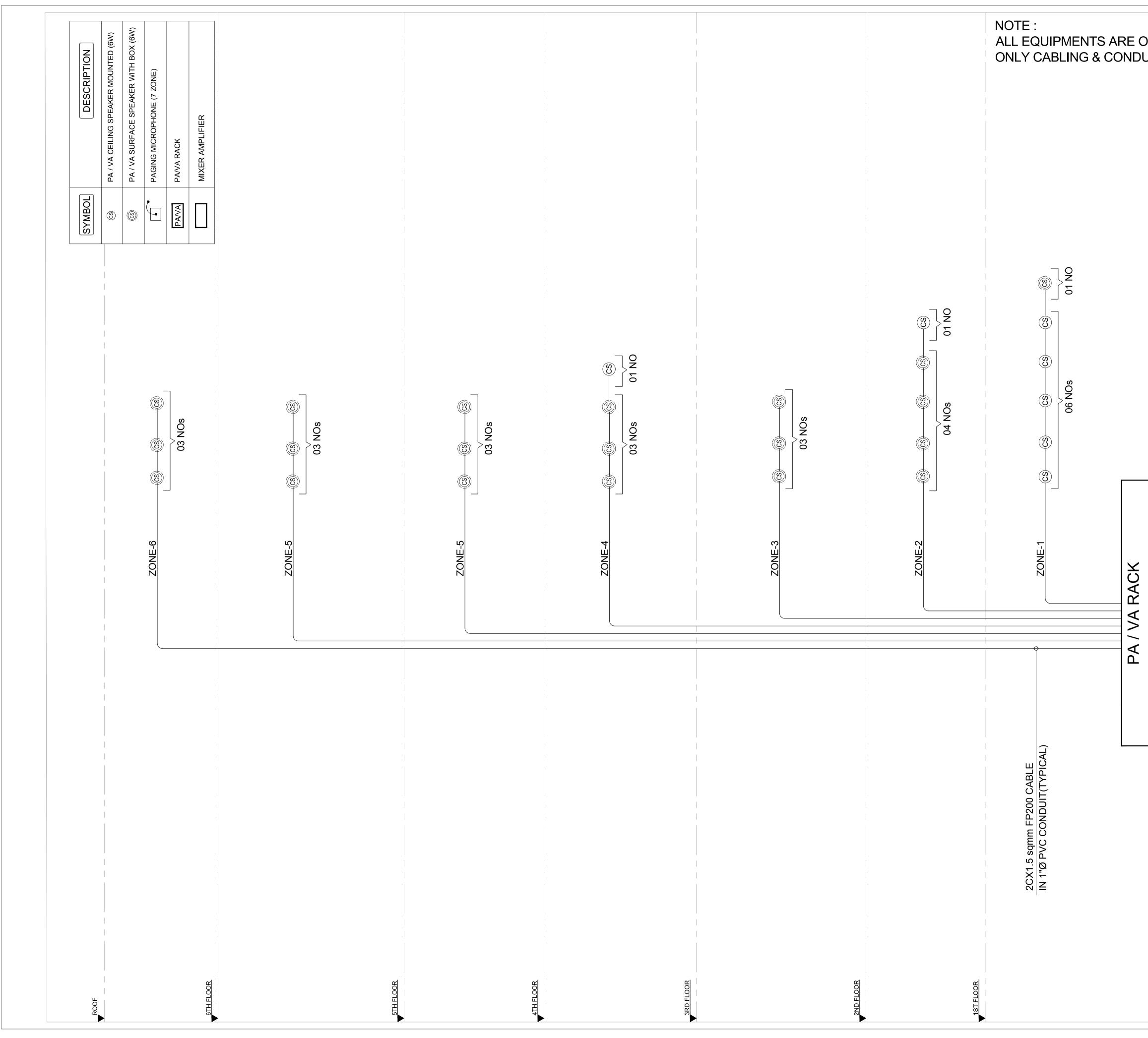
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	67A/L2 67/L2 66/L2 65/L2		ADDRESSABLE SMOKE DETECTOR
			ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR
			ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR INSIDE RAISED FLOOR
		È	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE
) Č	WALL SOUNDER WITH FLASHER / STROBE
&			ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT
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		Ē.	FOR PUMP
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		FACP	FIRE ALARM CONTROL PANE (ADDRESSABLE)
			1"Ø CONDUIT IN CEILING SLAB 1"Ø CONDUIT IN FLOOR
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	+		
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SYMBOL	DESCRIPTION	
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\oslash	ANALOGUE INTELLIGENT ADDRESSABLE HEAT DETECTOR	
\bigotimes	ANALOGUE INTELLIGENT ADDRESSABLE SMOKE DETECTOR INSIDE RAISED FLOOR	
	WALL SOUNDER WITH FLASHER / STROBE WEATHER PROOF TYPE	
	WALL SOUNDER WITH FLASHER / STROBE	
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT	
	ANALOGUE INTELLIGENT ADDRESSABLE MANUAL PULL STATION/CALL POINT WEATHER PROOF TYPE	
lF ▼	FOR PUMP	
ММ	FIRE ALARM MONITOR MODULE	
FACP	FIRE ALARM CONTROL PANE (ADDRESSABLE)	
	1"Ø CONDUIT IN CEILING SLAB	
	1"Ø CONDUIT IN FLOOR	

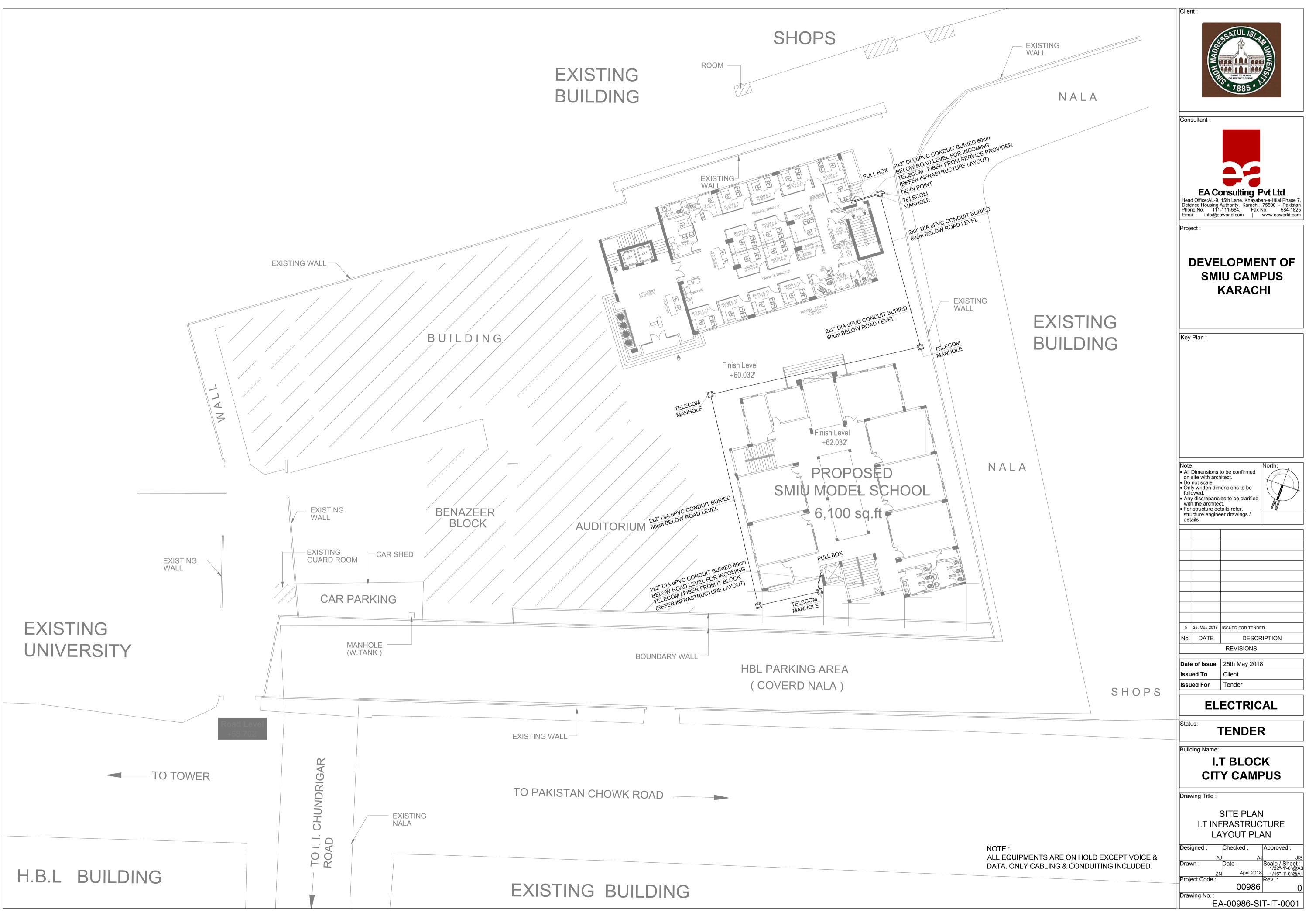
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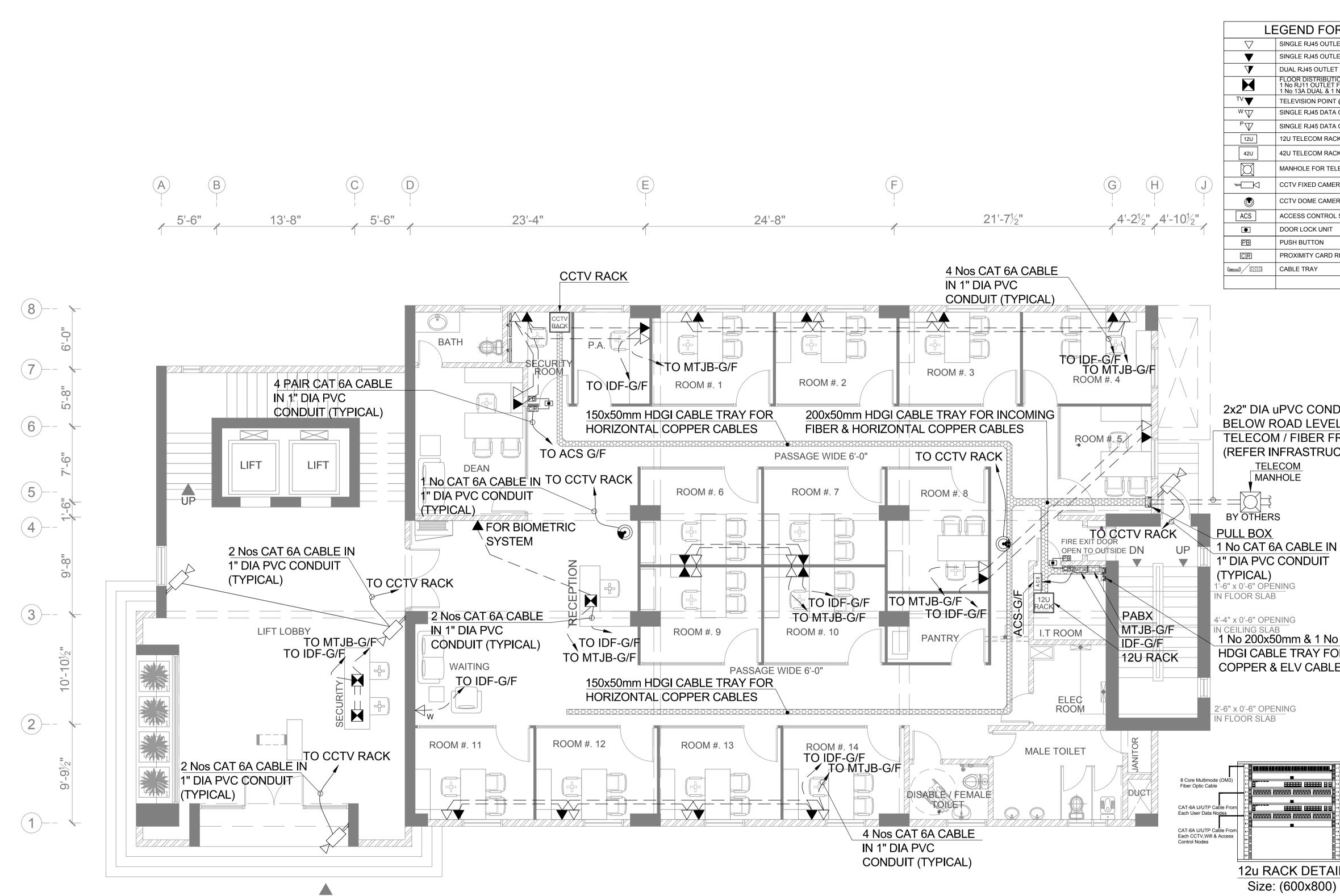
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Consultant :					
Head Office:AL-9 Defence Housing	onsulting Pvt Ltd , 15th Lane, Khayaban-e-Hilal,Phase Authority, Karachi. 75500 - Pakista 1-111-584, Fax No. 584-182 eaworld.com www.eaworld.com				
Project :					
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Key Plan :					
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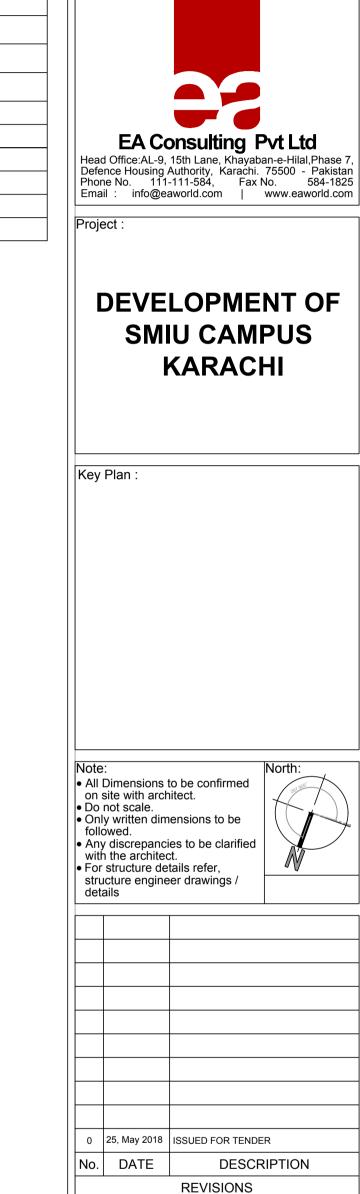
			Client :
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			Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project : DEVELOPMENT OF SMIU CAMPUS KARACHI
۲			Key Plan :
IN SECURITY ROOM G/F 1x150W MIXER AMPLIFIER FOR DUAL ZONE. 1x240W VOICE ALARM CONTROLLER FOR SIX ZONE.			Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • North: • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure engineer drawings / details • • • • • • • • • • • • • • • • • • •
			Date of Issue 25th May 2018 Issued To Client Issued For Tender
ONE)			ELECTRICAL Status: CONCEPT
PHONE (7 ZONE)			Building Name: I.T BLOCK CITY CAMPUS
PAGING MICRO			Drawing Title : PA / VA RACK SINGLE LINE DIAGRAM
A	GROUND FLOOR	BASEMENT	Designed : Checked : Approved : AJ AJ JIS Drawn : Date : Scale / Sheet : AA April 2018 N.T.S@A3 Project Code : Rev. :
	GROL	BASE	00986 0 Drawing No. : EA-00986-SIT-PA-0100





UP

GEND FOR ELV & IT SYSTEM
SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
DUAL RJ45 OUTLET FOR DATA (18" ATFL)
FLOOR DISTRIBUTION BOX: 1 No RJ11 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 5A SWITCHED SOCKET OUTLET
TELEVISION POINT @H/L
SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
12U TELECOM RACK (WALL MOUNTED)
42U TELECOM RACK (FLOOR STANDING)
MANHOLE FOR TELECOM (2'-0"x2'-0")
CCTV FIXED CAMERA TYPE (WALL MOUNTED)
CCTV DOME CAMERA TYPE
ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)
DOOR LOCK UNIT
PUSH BUTTON
PROXIMITY CARD READER
CABLE TRAY



Client

Consultant :

2x2" DIA uPVC CONDUIT BURIED 60cm **BELOW ROAD LEVEL FOR INCOMING** TELECOM / FIBER FROM IT BLOCK (REFER INFRASTRUCTURE LAYOUT)

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O. **COPPER & ELV CABLES**

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-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU)
Data Switch for Connectivity (1-RU) (By Others) 24 Port CAT-6A U/UTP Patch Panel (1-RU) for Data Nodes 24 Port CAT-6A U/UTP Patch Panel (1-RU) for CCTV,Wifi & Access Control Nodes

ALL EQUIPMENTS ARE ON HOLD EXCEPT VOICE & DATA. ONLY CABLING & CONDUITING INCLUDED.

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Drawing Title :		
COMMUNI	ND FLOOF CATION & S TEMS LAY	SECURITY
Designed :	Checked :	Approved :
AJ	J AJ	JIS
Drawn : ZN	Date : April 2018	Scale / Sheet : 3/32"-1'-0"@A3 3/16"-1'-0"@A1
Project Code :		Rev. :
	00986	0
Drawing No. :		
EA EA	1-00986-SI	T-IT-0100

Date of Issue 25th May 2018

ELECTRICAL

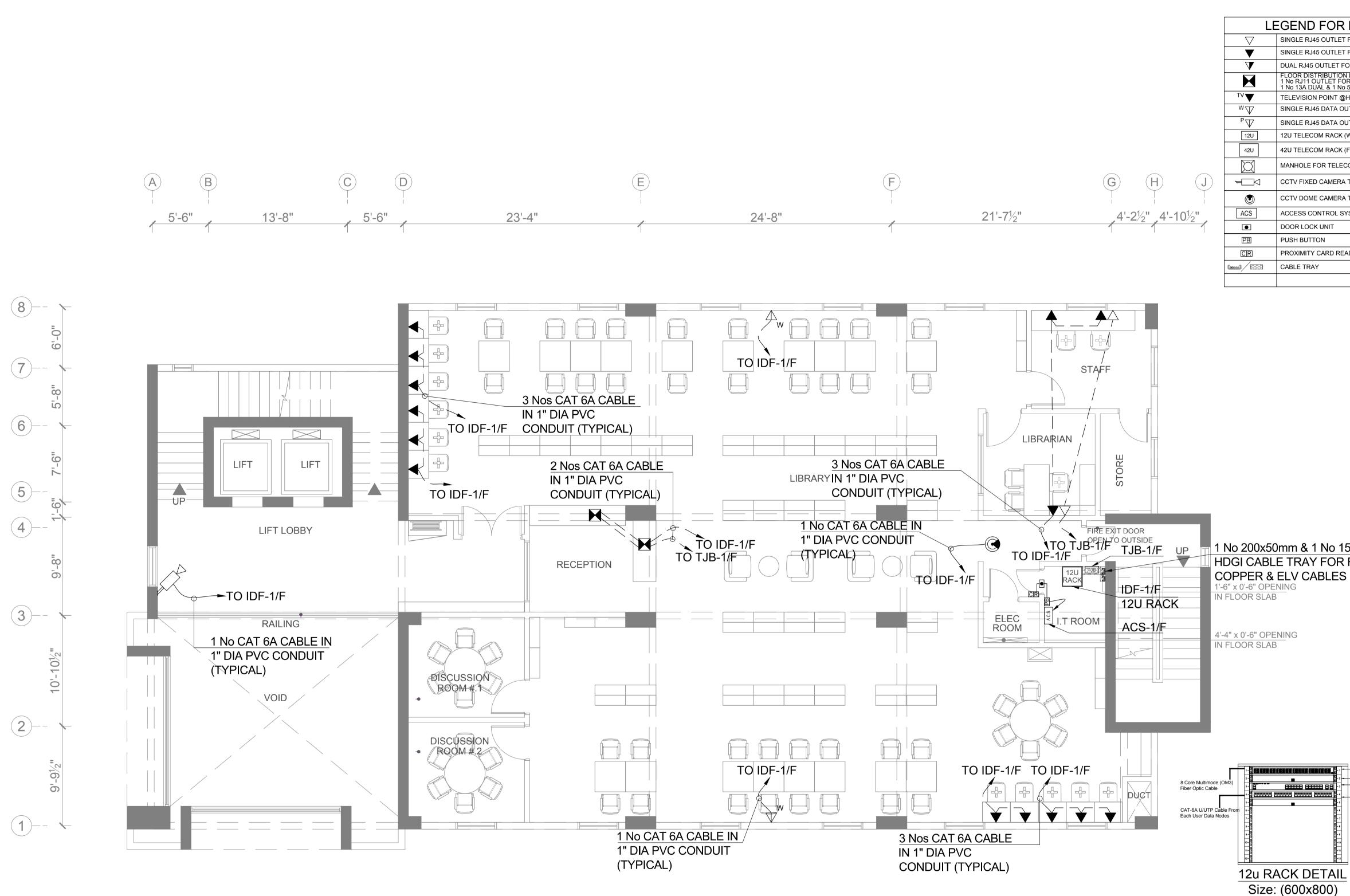
TENDER

Issued To Client

Issued For Tender

Status:

Building Name:



GEND FOR ELV & IT SYSTEM
SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
DUAL RJ45 OUTLET FOR DATA (18" ATFL)
FLOOR DISTRIBUTION BOX: 1 No RJ11 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 5A SWITCHED SOCKET OUTLET
TELEVISION POINT @H/L
SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
12U TELECOM RACK (WALL MOUNTED)
42U TELECOM RACK (FLOOR STANDING)
MANHOLE FOR TELECOM (2'-0"x2'-0")
CCTV FIXED CAMERA TYPE (WALL MOUNTED)
CCTV DOME CAMERA TYPE
ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)
DOOR LOCK UNIT
PUSH BUTTON
PROXIMITY CARD READER
CABLE TRAY



Client



DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan

Project :

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O,

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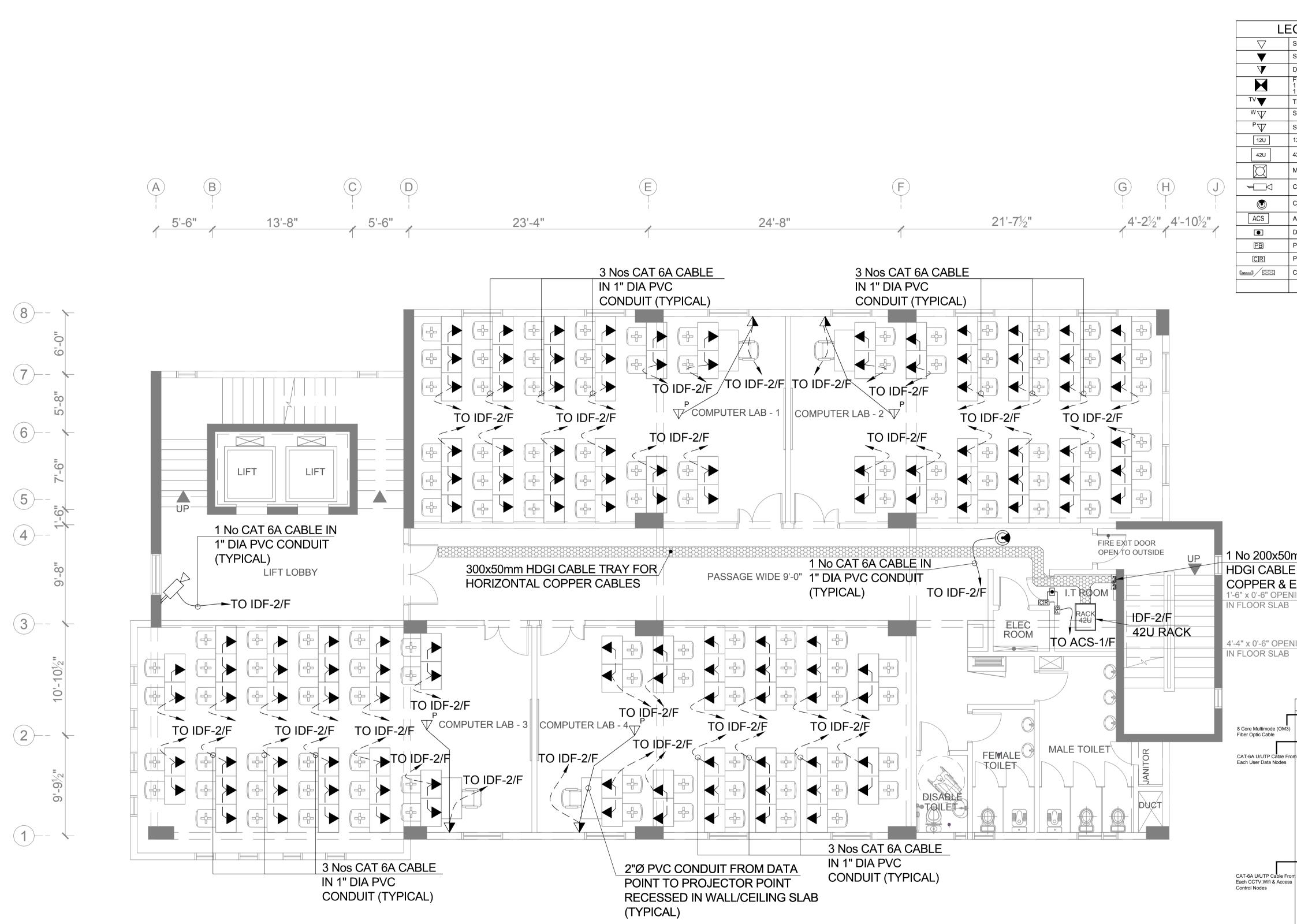
-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU) Data Switch for Connectivity (1-RU) (By Others) 24 Port CAT-6A U/UTP Patch Panel (1-RU) for Data Nodes

ALL EQUIPMENTS ARE ON HOLD EXCEPT VOICE & DATA. ONLY CABLING & CONDUITING INCLUDED.

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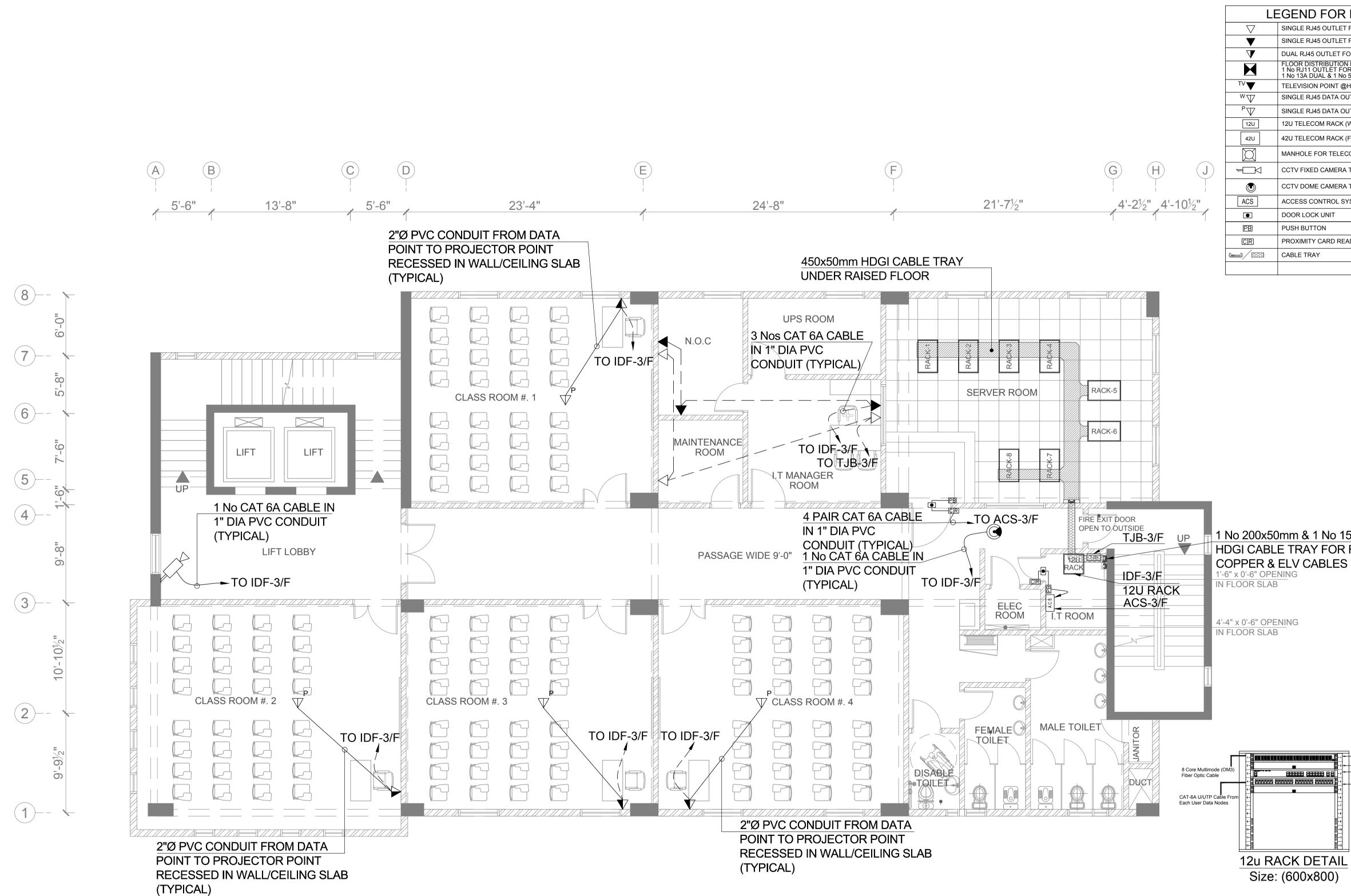
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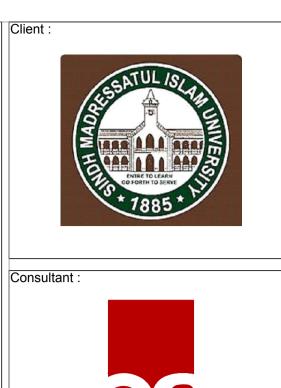
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LE	GEND FOR ELV & IT SYSTEM		SATUL ISLA
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\mathbf{V}	SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL		
∇	SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING		
12U	12U TELECOM RACK (WALL MOUNTED)	Consultant :	
12U			
ע ק			
	CCTV FIXED CAMERA TYPE (WALL MOUNTED)		
S S	ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)		
•••	DOOR LOCK UNIT		onsulting Pvt Ltd
B	PUSH BUTTON	Head Office AI -9	15th Lane, Khayaban-e-Hilal,Phase 7, Authority, Karachi. 75500 - Pakistan
R /	PROXIMITY CARD READER	Phone No. 111	-111-584, Fax No. 584-1825 aworld.com www.eaworld.com
88883	CABLE TRAY	Project :	
		DEVE	LOPMENT OF
		SM	IU CAMPUS
			KARACHI
		Key Plan :]
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	E TRAY FOR F.O,		
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/UTP Cable Fro V,Wifi & Acces odes		Issued For	Tender
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	S ARE ON HOLD EXCEPT VOICE & DATA.	Project Code :	00986 0
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] E/	A-00986-SIT-IT-0300

Client



GEND FOR ELV & IT SYSTEM
SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
DUAL RJ45 OUTLET FOR DATA (18" ATFL)
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CCTV DOME CAMERA TYPE
ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)
DOOR LOCK UNIT
PUSH BUTTON
PROXIMITY CARD READER
CABLE TRAY







Key Plan

Project :

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O,

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-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU) Data Switch for Connectivity (1-RU) (By Others) 24 Port CAT-6A U/UTP Patch Panel (1-RU) for Data Nodes

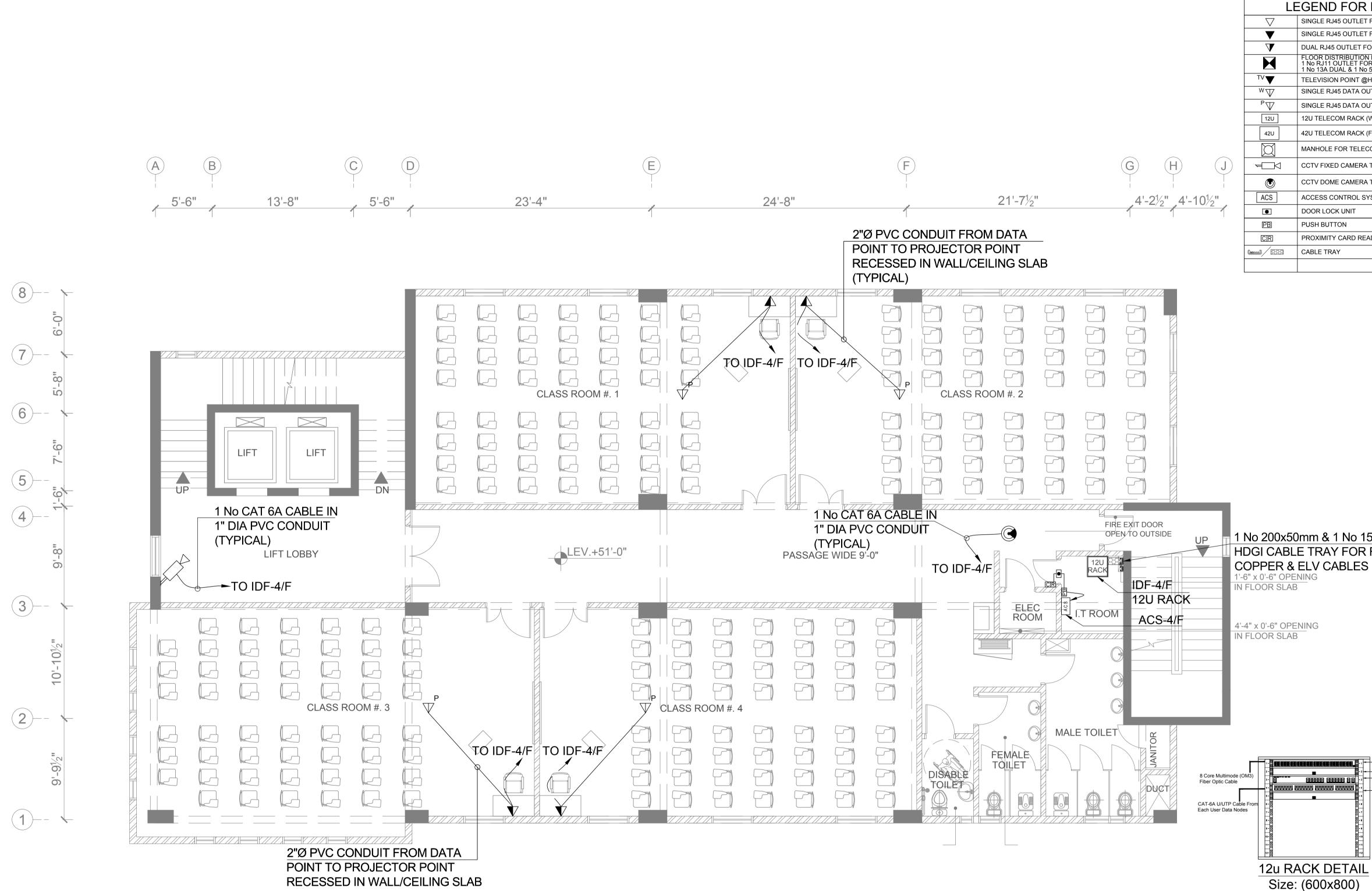
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Building Name: I.T BLOCK **CITY CAMPUS**

rawing	Title	:

THIRD FLOOR PLAN COMMUNICATION & SECURITY SYSTEMS LAYOUT				
Designed :	Checked :	Approved :		
AJ	AJ	JIS		
Drawn :	Date :	Scale / Sheet : 3/32"-1'-0"@A3		
ZN	April 2018	3/16"-1'-0"@A1		
Project Code :		Rev. :		
	00986	0		
Drawing No. :				
EA	1-00986-SI	T-IT-0400		



⁽TYPICAL)

NOTE :

GEND FOR ELV & IT SYSTEM
SINGLE RJ45 OUTLET FOR VOICE (18" ATFL)
SINGLE RJ45 OUTLET FOR DATA (18" ATFL)
DUAL RJ45 OUTLET FOR DATA (18" ATFL)
FLOOR DISTRIBUTION BOX: 1 No RJ11 OUTLET FOR VOICE & 1 No RJ45 OUTLET FOR DATA 1 No 13A DUAL & 1 No 5A SWITCHED SOCKET OUTLET
TELEVISION POINT @H/L
SINGLE RJ45 DATA OUTLET FOR WIFI @CEILING / WALL
SINGLE RJ45 DATA OUTLET FOR PROJECTOR ABOVE FALSE CEILING
12U TELECOM RACK (WALL MOUNTED)
42U TELECOM RACK (FLOOR STANDING)
MANHOLE FOR TELECOM (2'-0"x2'-0")
CCTV FIXED CAMERA TYPE (WALL MOUNTED)
CCTV DOME CAMERA TYPE
ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)
DOOR LOCK UNIT
PUSH BUTTON
PROXIMITY CARD READER
CABLE TRAY



Client



DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan :

Project :

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O,

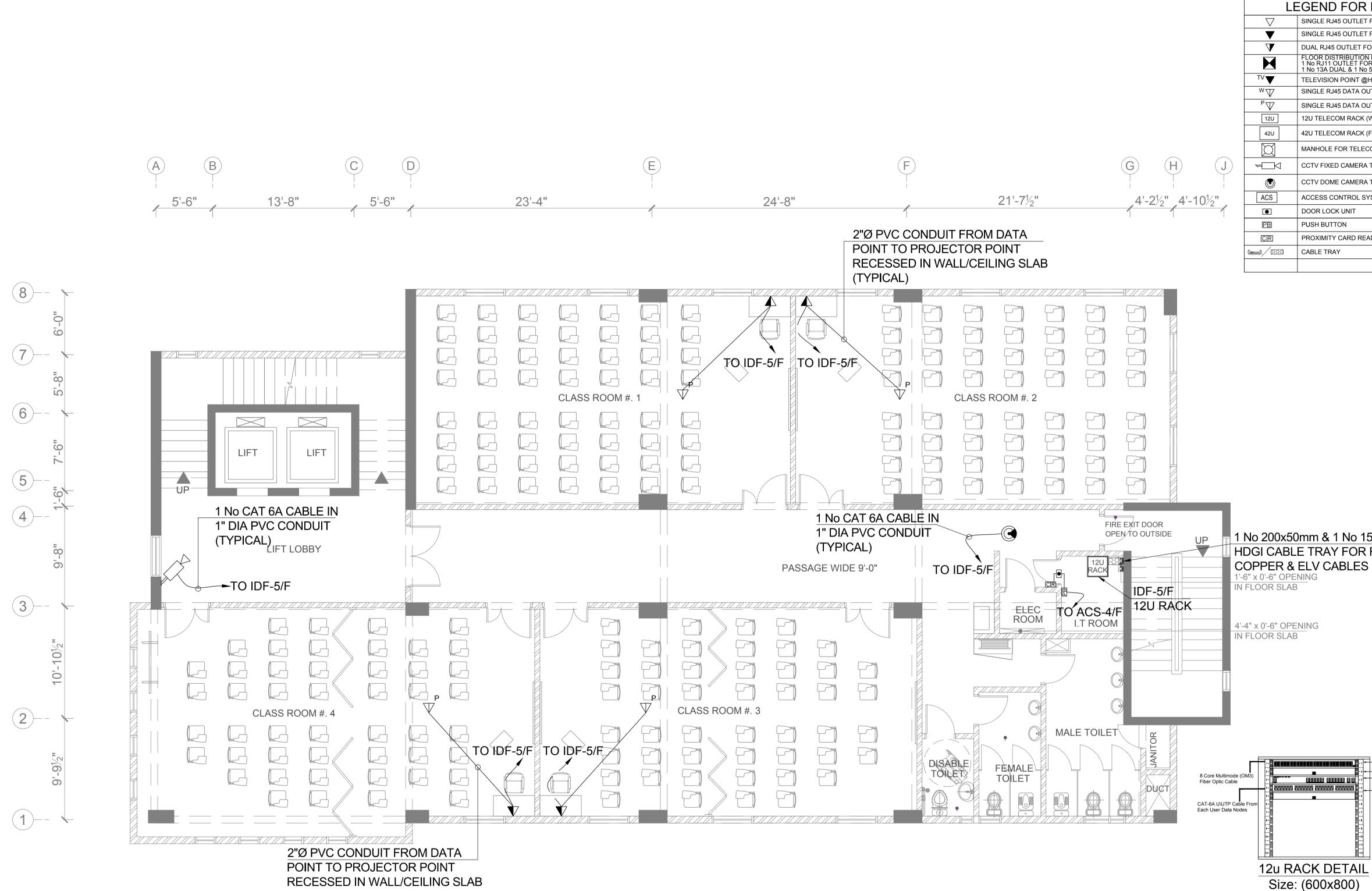
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-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU) Data Switch for Connectivity (1-RU) (By Others) 24 Port CAT-6A U/UTP Patch Panel (1-RU) for Data Nodes

ALL EQUIPMENTS ARE ON HOLD EXCEPT VOICE & DATA. ONLY CABLING & CONDUITING INCLUDED.

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ZN	April 2018	3/16"-1'-0"@A3
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DOOR LOCK UNIT
PUSH BUTTON
PROXIMITY CARD READER
CABLE TRAY



Concultant
Consultant :

Client



Project :

DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan :

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O,

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-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU) Data Switch for Connectivity (1-RU) (By Others) 24 Port CAT-6A U\UTP Patch Panel (1-RU) for Data Nodes

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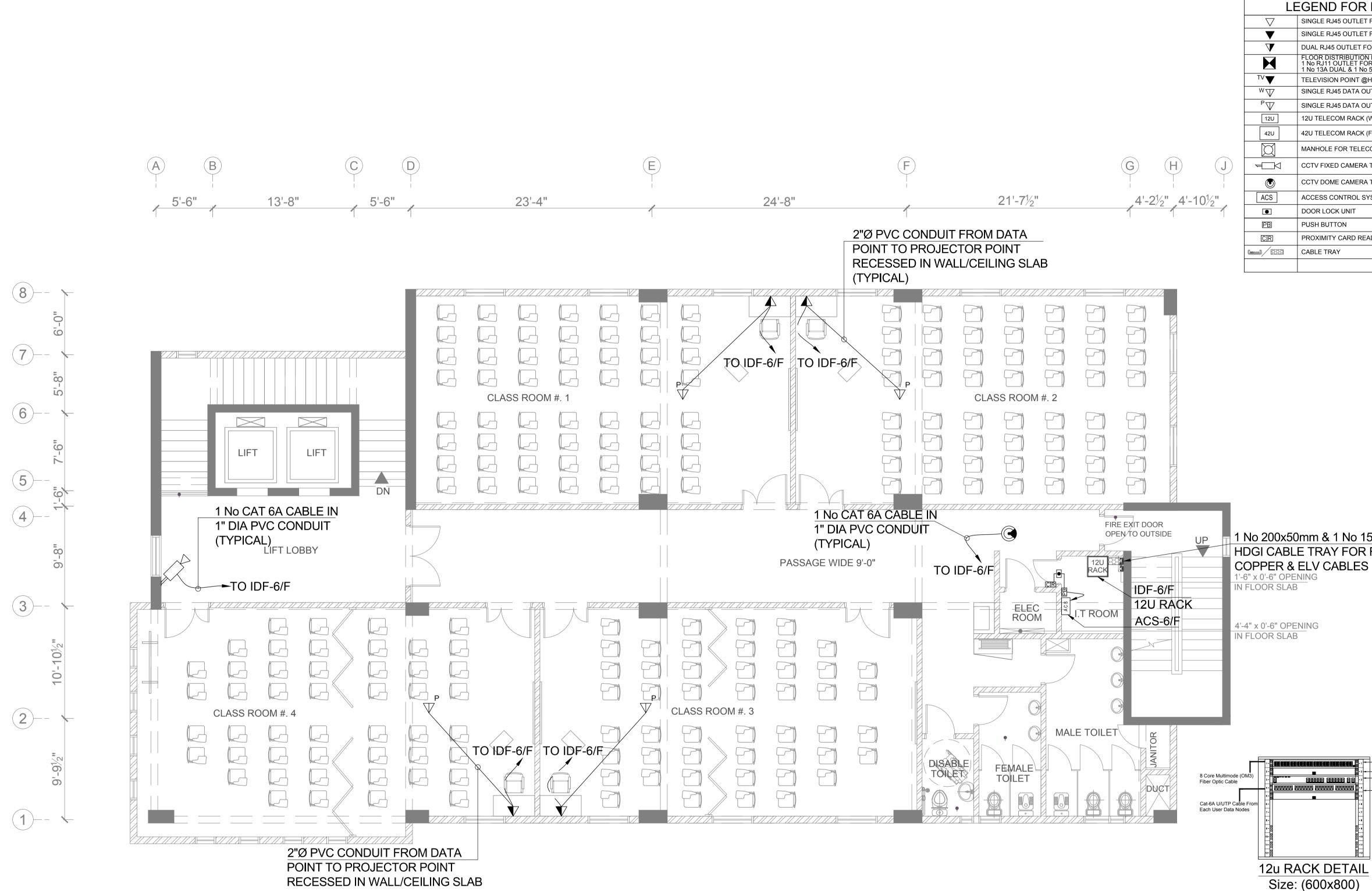
Building Name: I.T BLOCK **CITY CAMPUS**

Drawing Title

Status:

COMMUNI	H FLOOR F CATION & S FEMS LAY	SECURITY
Designed :	Checked :	Approved :
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ZN	April 2018	3/16"-1'-0"@A3
Project Code :		Rev. :
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Drawing No ·		

EA-00986-SIT-IT-0600



(TYPICAL)

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Project :

Client

DEVELOPMENT OF SMIU CAMPUS KARACHI

Key Plan :

1 No 200x50mm & 1 No 150x50mm HDGI CABLE TRAY FOR F.O,

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-24 Port Fiber Optic Multimode Patch Panel (1-RU) Front Cable Organizer (1-RU) Data Switch for Connectivity (1-RU) (By Others) 24 Port Cat-6A U/UTP Patch Panel (1-RU) for Data Nodes

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TENDER

Building Name: I.T BLOCK **CITY CAMPUS**

Drawing Title :

Status:

SIXTH FLOOR PLAN COMMUNICATION & SECURITY SYSTEMS LAYOUT				
Designed :	Checked :	Approved :		
AJ	AJ	JIS		
Drawn :	Date :	Scale / Sheet : 3/32"-1'-0"@A3		
ZN	April 2018	3/16"-1'-0"@A1		
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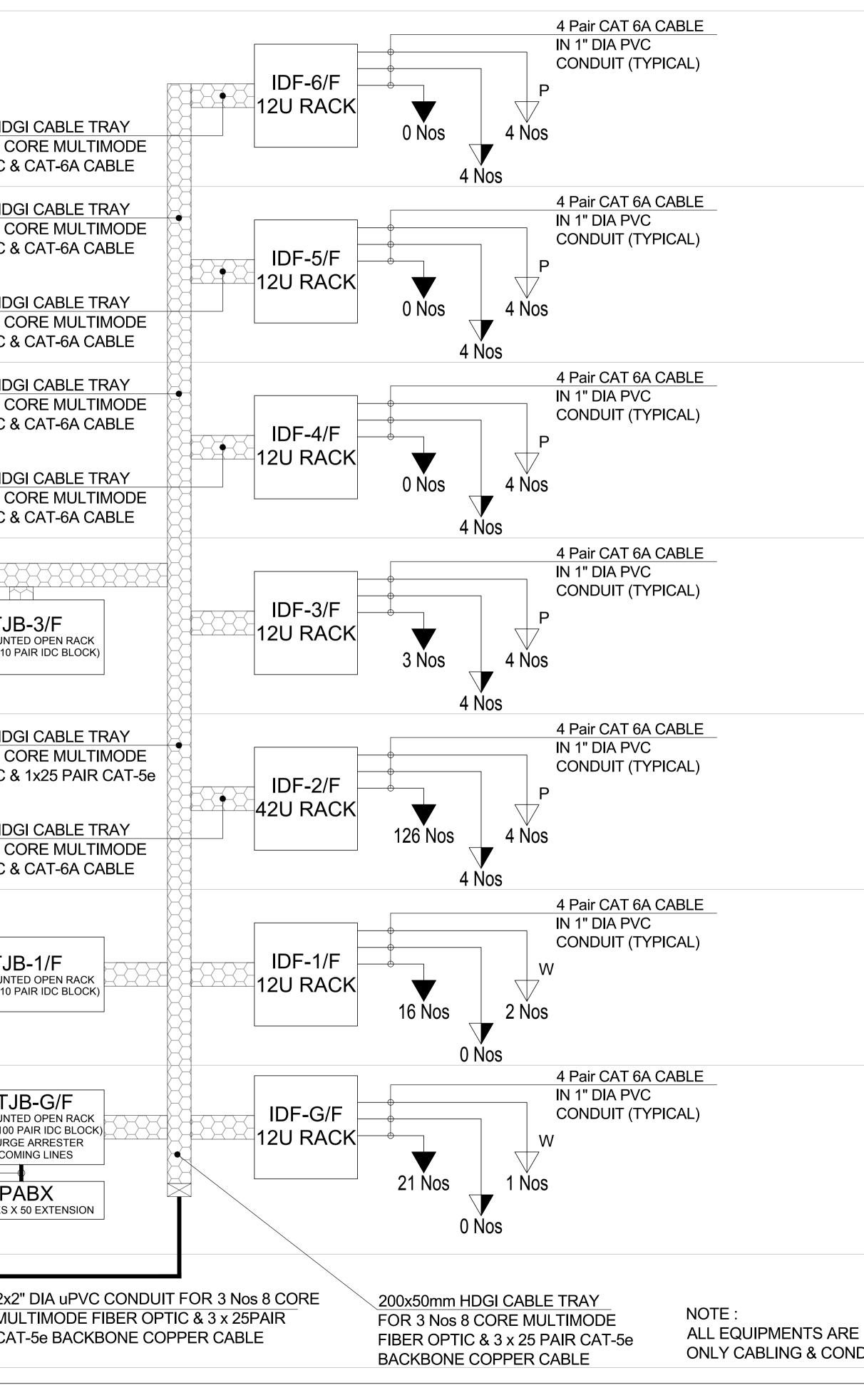
ROOF

IDF-6/F

12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 1 Nos 24 Port RJ-45 Patch Panel 2 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT

SPACE FOR ACTIVE EQUIPMENT		
SIXTH FINISH FLOOR LEVEL		200x50mm HD0 FOR 1 Nos 8 C FIBER OPTIC 8
IDF-5/F 12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 1 Nos 24 Port RJ-45 Patch Panel 2 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT		200x50mm HD0 FOR 1 Nos 8 C FIBER OPTIC 8
FIFTH FINISH FLOOR LEVEL		200x50mm HD0 FOR 1 Nos 8 C FIBER OPTIC 8
IDF-4/F 12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 1 Nos 24 Port RJ-45 Patch Panel 2 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT		200x50mm HD0 FOR 2 Nos 8 C FIBER OPTIC 8
FORTH FINISH FLOOR LEVEL	200x50mm HDGI CABLE TRAY FOR 11 Nos 8 CORE MULTIMODE FIBER OPTIC & CAT-6A CABLE	200x50mm HD0 FOR 1 Nos 8 C FIBER OPTIC 8
IDF-3/F 12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 1 Nos 24 Port RJ-45 Patch Panel 2 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT	SERVER ROOM	TJI WALL MOUNT (1 No 19" 1×10 F
THIRD FINISH FLOOR LEVEL	3 Nos	
IDF-2/F 42U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 6 Nos 24 Port RJ-45 Patch Panel 7 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT		200x50mm HD0 FOR 8 Nos 8 C FIBER OPTIC 8 CABLE 200x50mm HD0
SECOND FINISH FLOOR LEVEL		FOR 1 Nos 8 C FIBER OPTIC 8
IDF-1/F 12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 1 Nos 24 Port RJ-45 Patch Panel 2 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT	4 Pair CAT 6A CABLE IN 1" DIA PVC CONDUIT (TYPICAL)	TJI WALL MOUNT (1 No 19" 1x10 F
FIRST FINISH FLOOR LEVEL	4 Nos	
IDF-G/F 12U RACK DETAIL 1 Nos 24 Port Fiber Patch Panel 2 Nos 24 Port RJ-45 Patch Panel 3 Nos CABLE ORGANIZER SPACE FOR ACTIVE EQUIPMENT	2 x 25 PAIR CAT-5e 20 Nos BACKBONE COPPER CABLE	MTJ WALL MOUNT (1 No 19" 1x100 WITH SURG ON INCOM
GROUND FINISH FLOOR LEVEL		4 C.O LINES X
	INCOMING FOR TELECOM / FIBER (REFER INFRASTRUCTURE LAYOUT) FOR FIBER OPTIC & 3x25 PAIR CAT-5 BACKBONE CABLE	OLE 2x2 MU CA

COMMUNICATION SYSTEM SCHEMATIC DIAGRAM

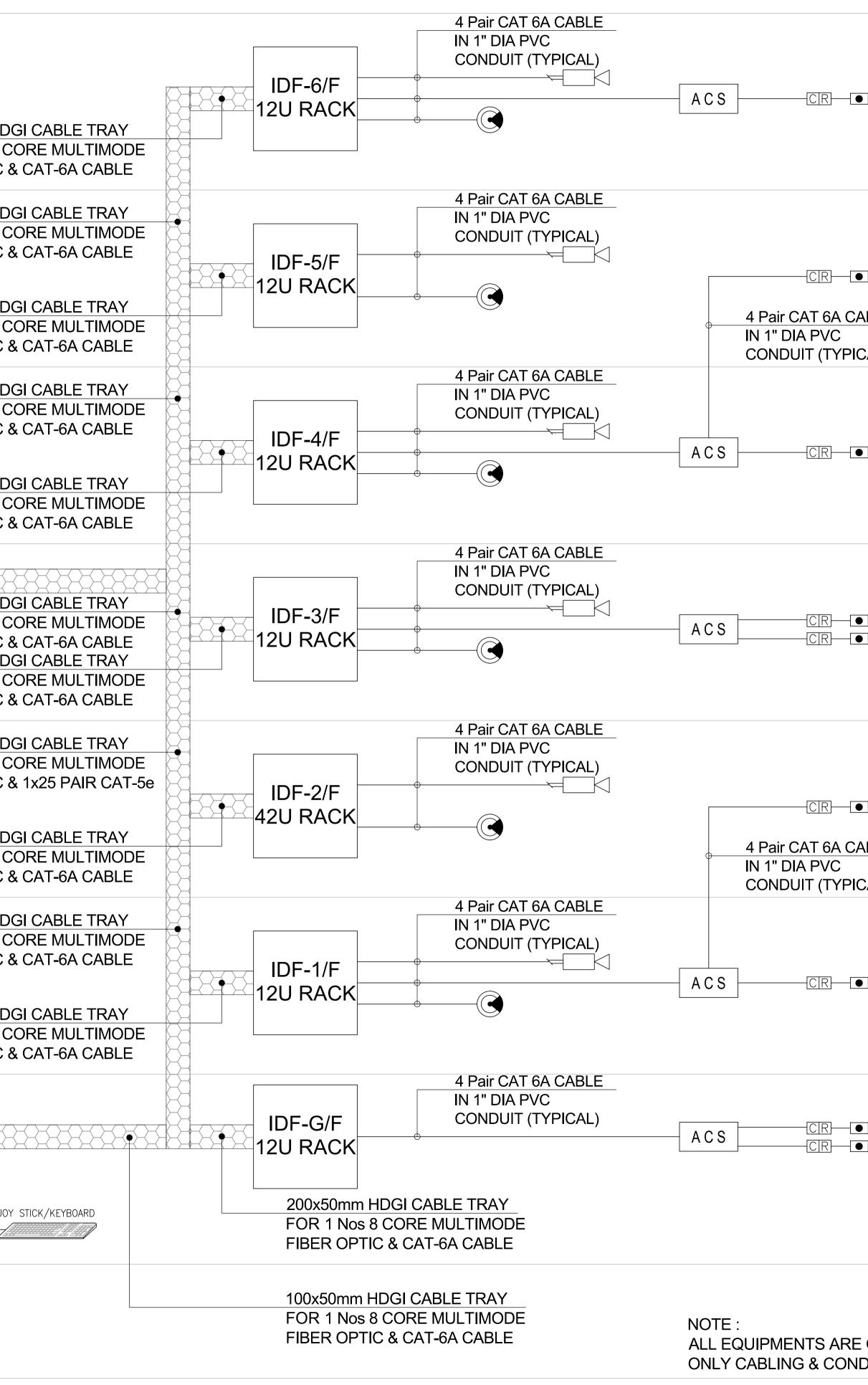


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	Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect. • For structure details refer, structure engineer drawings / details
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	ELECTRICAL Status: TENDER Building Name:
	Building Name: I.T BLOCK CITY CAMPUS Drawing Title : COMMUNICATION SYSTEM SCHEMATIC DIAGRAM
ON HOLD EXCEPT VOICE & DATA. DUITING INCLUDED.	Designed : Checked : Approved : AJ AJ JIS Drawn : Date : Scale / Sheet : NTS@A3 NTS@A1 Project Code : Rev. : 00986 0 Drawing No. : EA-00986-SIT-IT-0800

ROOF

SIXTH FINISH FLOOR LEVEL				<u>200x50m</u> FOR 1 N FIBER O	os 8 C
				200x50m FOR 1 N FIBER O	os 8 C
FIFTH FINISH FLOOR LEVEL				<u>200x50m</u> FOR 1 N FIBER O	os 8 C
				<u>200x50m</u> FOR 2 N FIBER O	os 8 C
	FOR 11 N	n HDGI CABLE TRAY os 8 CORE MULTIMO TIC & CAT-6A CABLE	DDE	<u>200x50m</u> FOR 1 N FIBER O	os 8 C
		SERVER ROOM		200x50m FOR 8 N FIBER O 200x50m FOR 1 N	os 8 C PTIC 8 Im HD0
THIRD FINISH FLOOR LEVEL				FIBER O	PTIC 8
				200x50m FOR 7 N FIBER O CABLE	os 8 C
SECOND FINISH FLOOR LEVEL				<u>200x50m</u> FOR 1 N FIBER O	os 8 C
				<u>200x50m</u> FOR 6 N FIBER O	os 8 C
FIRST FINISH FLOOR LEVEL	IN	Pair CAT 6A CABLE 1" DIA PVC ONDUIT (TYPICAL)		200x50m FOR 1 N FIBER O	os 8 C
CCTV RACK DETAIL CCTV RACK DETAIL 1 Nos 32 CHANNEL NVR 1 Nos RAID SPACE FOR ACTIVE EQUIPMENT				CCTV RACK	333
GROUND FINISH FLOOR LEVEL					JOY

SECURITY SYSTEM SCHEMATIC DIAGRAM



	Client :
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D-PB LOC : I.T ROOM	Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15th Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825
DELOC : I.T ROOM	Phone No. 111-111-584, Fax No. 584-1825 Email : info@eaworld.com www.eaworld.com Project : DEVELOPMENT OF SMIU CAMPUS KARACHI
PB LOC : I.T ROOM	Key Plan :
D-PB LOC : SERVER ROOM D-PB LOC : I.T ROOM	Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only written dimensions to be followed. • Any discrepancies to be clarified with the architect.
D PB LOC : I.T ROOM	For structure details refer, structure engineer drawings / details
D-PB LOC : I.T ROOM	0 25, May 2018 ISSUED FOR TENDER No. DATE DESCRIPTION REVISIONS Date of Issue 25th May 2018 Issued To Client Issued For Tender
D-PB LOC : SECUTITY ROOM D-PB LOC : I.T ROOM	ELECTRICAL Status: TENDER Building Name: I.T BLOCK CITY CAMPUS Drawing Title : SECURITY SYSTEM SCHEMATIC DIAGRAM
ON HOLD EXCEPT VOICE & DATA. DUITING INCLUDED.	Designed : Checked : Approved : AJ AJ JIS Drawn : Date : Scale / Sheet : ZN April 2018 NTS@A3 Project Code : Rev. : 00986 Drawing No. : EA-00986-SIT-IT-0900

DEVELOPMENT OF SMIU CAMPUS KARACHI



TENDER DRAWINGSJU HVAC



IT BLOCK City Campus



LIST OF HVAC DRAWING

SMIU IT BLOCK

S.#	DRAWING NO.	DRAWING TITLE
1	EA-00986-SIT-M0-01	LIST OF HVAC DRAWINGS
2	EA-00986-SIT-M0-02	HVAC GENERAL NOTES, LEGENDS & ABBREVIATIONS - SHEET-1
3	EA-00986-SIT-M0-03	HVAC GENERAL NOTES, LEGENDS & ABBREVIATIONS - SHEET-2
4	EA-00986-SIT-M0-04	HVAC STANDARD DETAILS SHEET-1
5	EA-00986-SIT-M0-05	HVAC STANDARD DETAILS SHEET-2
7	EA-00986-SIT-M1-01	BASEMENT PLAN - VENTILATION LAYOUT
8	EA-00986-SIT-M1-02	GROUND FLOOR - HVAC LAYOUT
9	EA-00986-SIT-M1-03	FIRST FLOOR - HVAC LAYOUT
10	EA-00986-SIT-M1-04	SECOND FLOOR - HVAC LAYOUT
11	EA-00986-SIT-M1-05	THIRD FLOOR - HVAC LAYOUT
12	EA-00986-SIT-M1-06	FOURTH FLOOR - HVAC LAYOUT
13	EA-00986-SIT-M1-07	FIFTH FLOOR - HVAC LAYOUT
14	EA-00986-SIT-M1-08	SIXTH FLOOR - HVAC LAYOUT
15	EA-00986-SIT-M1-09	ROOF - AC EQUIPMENT LAYOUT
16	EA-00986-SIT-M2-01	HVAC EQUIPMENT SCHEDULE SHEET-1
17	EA-00986-SIT-M2-02	HVAC EQUIPMENT SCHEDULE SHEET-2

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Client :
EA Consulting Pyt Ltd Head Office AL-9, 15h Lane, Khayabane-Hilal Phase 7, Define Housing Authority, Karachi, 75500 - Pakistan Pana N. Parkov Emai : Info@eaworld.com www.eaworld.com Project :
DEVELOPMENT OF SMIU CAMPUS KARACHI
Key Plan :
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Date of Issue May 25, 2018 Issued To Client Issued For Tender
Status: TENDER
 Building Name: IT BLOCK CITY CAMPUS
 Drawing Title : LIST OF HVAC DRAWINGS
 Designed : Checked : Approved : M.U M.J S.Z Drawn : Date : Scale / Sheet :
Z.S May 2018 NTS Project Code : 00986 01 Drawing No. : EA-00986-SIT-M0-01

ABBREVIATION

AP	ACCESS PANEL
си	CONDENSING UNIT
CD	CONDENSATE DRAIN
CDP	CONDENSATE DRAIN PIPE
со	CLEAN OUT
DB	DRY BULB
DL	DOOR LOUVER
DR	DRAIN
EA	EXHAUST AIR
EAD	EXHAUST AIR DIFFUSER
EAG	EXHAUST AIR GRILLE
EAL	EXHAUST AIR LOUVER
EAR	EXHAUST AIR REGISTER
EF	EXHAUST FAN
F/A-F/B	FROM ABOVE / FROM BELOW
FA	FRESH AIR
DX	DIRECT EXPANSION WALL MOUNTED
HP	HORSE POWER
Кра	KILO PASCAL
TR	TONS
CFM	CUBIC FEET PER MINUTE
AR	AIR CURTAIN

LCP	LIGHTING CONTROL PANEL
М	METER
мм	MILLIMETER
Ра	PASCAL
RA	RETURN AIR
RAD	RETURN AIR DIFFUSER
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RPM	REVOLUTIONS PER MINUTE
S/S	START / STOP
SA	SUPPLY AIR
SAD	SUPPLY AIR DIFFUSER
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
WB	WET BULB
Ō	THERMOSTAT
T/A	TO ABOVE
TAG	TRANSFER AIR GRILLE
T/B	TO BELOW
TBD	TO BE DECIDED
тнк	THICKNESS
TYP.	TYPICAL
TR	REFRIGERATION TONS
VD	VOLUME CONTROL DAMPER
ø	DIAMETER

GENERAL NOTES

- 1. ALL SERVICE RUNS AND CONNECTIONS, ACCESSORIES ALL SERVICE AVOIS AND CONNECTIONS, ACCESSORIES ANCILLARY, EQUIPMENT AND BUILDERS WORKS SHALL BE PROVIDED TO SUIT EQUIPMENT INCLUDED BY THE CONTRACTOR IN HIS TENDER, WHERE APPLICABLE AND WHERE INDICATED.
- RETURN AIR OPENINGS TO HAVE MAXIMUM AIR VELOCITY OF 2 2. CFM
- 3. ALL REFRIGERANT PIPE SIZES SHALL BE AS PER MANUFACTURER'S RECOMMENDATION.
- ALL PRESSURE DROPS INDICATED IN SCHEDULES AND DRAWINGS ARE FOR GUIDANCE ONLY, CONTRACTOR TO CHECK THE ABOVE AGAINST EQUIPMENT, FITTINGS AND UNITS INSTALLED AS PER SHOP DRAWINGS SUBMITTED FOR APPROVAL
- 5. PROVIDE CEILING ACCESS TO EQUIPMENT ,DAMPER, AND OTHER DEVICES LOCATED ABOVE CEILING.
- ALL OPENING FOR DUCTS AND PIPES SHALL NOT IN ANYWAY, PENETRATE STRUCTURAL RIB OR BEAMS UNLESS OTHERWISE 6. AUTHORIZED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. 7.
- ALL EQUIPMENT PLINTHS/FOUNDATION SHALL BE 8. COORDINATED WITH STRUCTURE AND ARCHITECTURE. 9.
- THE CONTRACTOR SHALL ENSURE THAT ALL THE OFFERED EQUIPMENT CAN BE POSITIONED. WITH IN THE ALLOCATED SPACE.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS FOR AIR DUCTS PASSING THROUGH FIRE RATED WALLS / SLABS IN ORDER TO FULFILL THE REQUIREMENTS OF LOCAL AUTHORITY. 10.
- 11. AIR TIGHT ACCESS PANELS SHOULD BE PROVIDED ON AIR DUCTS ADJACENT TO FIRE DAMPERS FOR INSPECTION AND MAINTENANCE
- 12. THE EXACT LOCATION AND LEVEL OF ALL WALL MOUNTED THERMOSTATS / SWITCHES SHALL BE SUBJECTED TO ARCHITECT'S APPROVAL BEFORE INSTALLATION.
- THE DUCT DIMENSION SHOWN ON THE DRAWING ARE THE NET SIZE EXCLUDING INTERNAL LINING & EXTERNAL INSULATION 13. THICKNESS.
- 14. ALL AIR GRILLES / LOUVRES SHALL BE MADE OF ALUMINIUM UNLESS OTHERWISE SPECIFIED. THE COLOUR & SURFACE FINISHING OF THE GRILLES / LOUVRES SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL BEFORE MATERIAL ORDERING. UNLESS OTHERWISE SPECIFIED, COLOUR FINISH SHALL BE IN BAKED ENAMEL PAINT.
- ACCESS PANEL LOCATIONS SHALL BE SUBMITTED BY THE ACMV CONTRACTOR FOR APPROVAL BY THE ARCHITECT AND ENGINEERS. 15.
- RUN INSULATED DRAIN PIPE FROM EACH AC UNIT NEAREST DRAIN POINT, INSULATE DRAIN POINT AND WASTE PIPE UNTIL IT REACHES THE VERTICAL STACK. 16.
- 17. DURING THE PROCESS OF THE WORKS ALL OPEN ENDS OF PIPES, CONDUITS, DUCTS ETC. SHALL BE SUITABLY CAPPED TO PREVENT THE INGRESS OF FOREIGN MATTER.
- 18. ALL PIPES SHALL BE PROPERLY ANCHORED AS REQUIRED TO CONTROL THE MOVEMENT OF PIPES DUE TO THERMAL EXPANSION AND CONTRACTION.
- 19. THE SLOPE OF ALL HORIZONTAL RUN CONDENSATE DRAIN PIPES SHALL BE NOT LESS THAN 1:100.
- 20. ALL ANTI VIBRATION MOUNTS FOR EQUIPMENT SHALL BE OF SPRING TYPE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 21. ALL SUPPLY / RETURN AIR BRANCH DUCTS FROM MAIN / SUB MAIN DUCT SHALL BE PROVIDED WITH ADJUSTABLE SPLITTER VANES.
- 22. FOR PIPES, SLEEVES AND DUCTS THROUGH FIRE BARRIER, THE GAP BETWEEN THE PIPES AND ITS SLEEVES, AND THE GAP BETWEEN THE DUCTS AND FIRE BARRIERS SHALL BE FIRE SEALED THROUGH FIRE STOPPING MATERIAL
- 23. INSULATION FOR PIPES AT POINT WHERE THEY PASS THROUGH FIRE BARRIERS SHALL HAVE A PERIOD OF FIRE RESISTANCE EQUAL TO THE FIRE BARRIERS.
- 24. WHERE DUCT REQUIRING INSULATION PASSES THROUGH A FIRE WHERE DUCT REQUIRING INSULATION PASSES THROUG BARRIER AND IS PROVIDED WITH A FIRE DAMPER, THE EXTERNAL INSULATION SHALL HAVE A PERIOD OF FIRE RESISTANCE EQUAL TO THE FIRE BARRIERS.
- 25. ALL DUCT ELBOWS SHALL BE FITTED WITH TURNING VANES TO DW 142 STANDARD.
- SIZE OF GRILLES, LOUVRES OR DIFFUSERS SHOWN ARE NECK 26. SIZE UNLESS OTHERWISE SPECIFIED, FACE SIZE OF DIFFUSERS SHALL MATCH CEILING TILE SIZE.

- 27. ALL PLENUM BOXES SHALL HAVE 25mm ACOUSTICAL LINING.
- 28. ALL DUCT FANS SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND FLEXIBLE DUCT CONNECTORS
- OUTDOOR AIR GRILLES (INTAKE AND EXHAUST) ARE TO BE PROVIDED WITH WEATHER PROOFED LOUVRES WITH ADJUSTABLE DEFLECTORS AND COMPLETE WITH VOLUME CONROL DAMPERS.
- 30. ALL GRILLES AND DIFFUSERS SHALL BE INSTALLED WITH VOLUME CONTROL DAMPERS.
- 31. IN THE ABSENCE OF ANY OTHER REQUIREMENT NOT FOUND IN THE LOCAL M.E. CODE, MATERIALS, CONSTRUCTION AND INSTALLATION OF THE DUCTWORKS SHALL COMPLY WITH THE REQUIREMENT OF SMACNA OR ASHRAE.
- ALL SERVICES CROSSING SEISMIC GAP SHALL BE PROVIDED BY FLEXIBLE JOINT.
- 35. CONTRACTOR IS RESPONSIBLE FOR TESTING ADJUSTING AND BALANCING OF THE HVAC SYSTEM. TESTING ADJUSTING AND BALANCING SHALL BE CARREID OUT BY QUALIFIED FIRMS ENGAGED IN THE FEILD.

Client :			
Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15h Lane, Khayaban-e-Hille,Phase 7, Defence Housing Authority, Karachi, 75600 - Pakisan Pende Mousing Authority, Karachi, 75600 - Pakisan Email : info@eaworld.com www.eaworld.com Project :			
DEVELOPMENT OF SMIU CAMPUS KARACHI			
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Drav	ving Title :		
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Z.S May 2018 N15 Project Code : 00986 01 Drawing No. : 01 01			
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LEGEND

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+= <u> </u> +	CEILING RETURN DIFFUSER/GRILLE
+ +	SIDE WALL SUPPLY REGISTER
*	SIDE WALL RETURN REGISTER
106	SUPPLY AIR (SA) DUCT
	return air (ra) duct
· · · · · · · · · · · · · · · · · · ·	EXHAUST AIR (EA) DUCT
	FRESH AIR (FA) DUCT
FD F FD	FIRE DAMPER
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	BUTTERFLY DAMPER
NRD	NON RETURN DAMPER
	TURNING VANES
	AIR EXTRACTOR
	SPLITTER DAMPER
	ELBOW
	FLEXIBLE ROUND DUCT CONNECTION (FLEX NOT TO EXCEED 1.2 m, IN LENGTH)
SIZE(NECK)	SUPPLY AIR OUTLET SQUARE OR RECT. (ARROW INDICATES FLOW PATTERN)

LEGEND

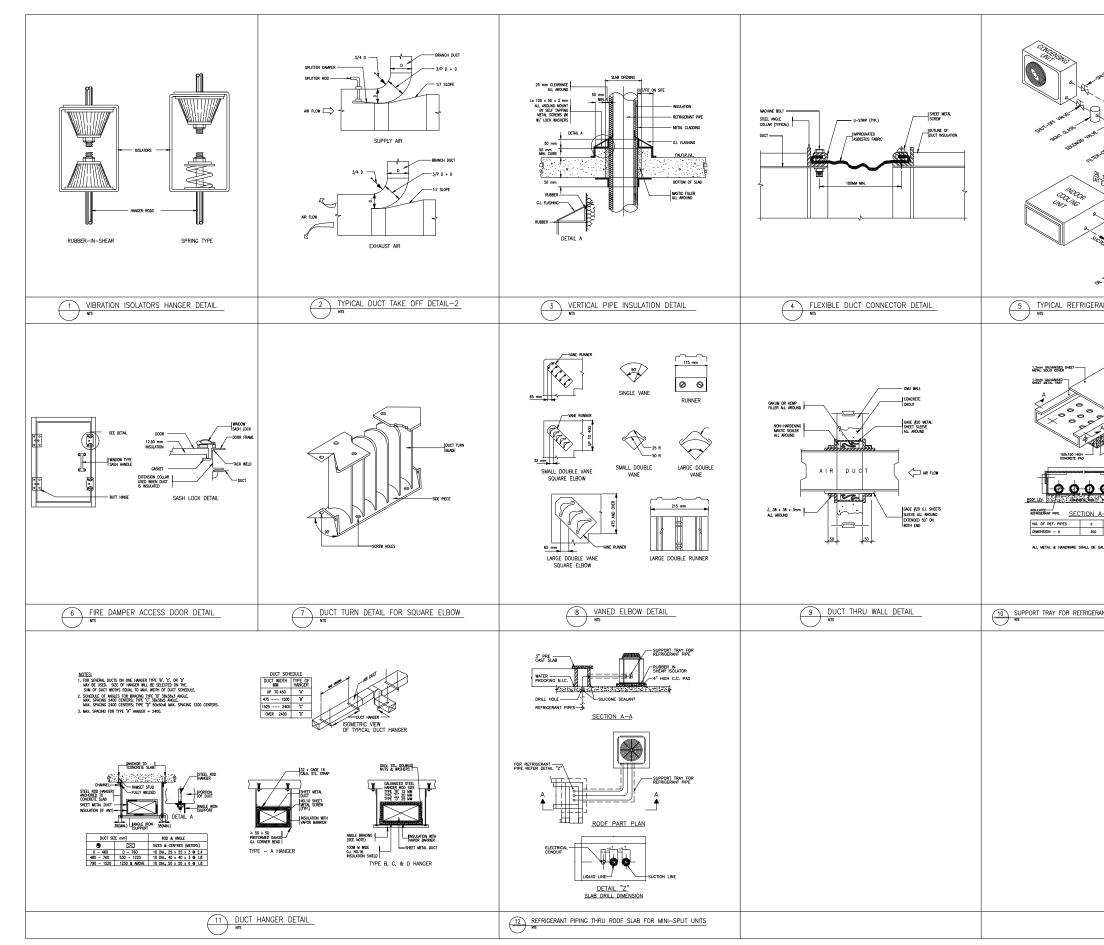
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8	IN-LINE/AXIAL FAN
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	DX INDOOR UNIT DECORATIVE TYPE
REFF.	REFRIGERANT PIPE LIQUID
CDP	CONDENSATE DRAIN
- [see ×]-	DUCT ROUND (SIZE & CENTERLINE)
	DUCT RETURN OR EXHAUST TURNING UP (SHADE IN W/SIZE)
	RECTANGULAR TRANSITION (SLOPE NOT TO EXCEED 25" TO 100")

LEGEND SIZE(NECK) SUPPLY AIR OUTLET ROUND (ARROW INDICATES FLOW PATTERN) SMOKE DAMPER W/ACCESS DOOR (HORIZONTAL) L/S UC DOOR UNDER CUT VCD VOLUME CONTROL DAMPER AD AD AD ACCESS DOOR BOTTOM OR SIDE AIR DUCT SUPPLY AIR DUCT F/A AND/OR T/B \times RETURN AIR DUCT F/A AND/OR T/B RECTANGULAR AIR DUCT 300X200 (300 WIDE X 200 DEEP) DUCT FLEXIBLE CONNECTOR (\mathbb{T}) THERMOSTAT (M)MOTORIZED RECTANGULAR TO ROUND TRANSITION (SLOPE NOT TO EXCEED 25" TO 100") RETURN AIR OUTLET SQUARE OR RECT-(ARROW INDICATES FLOW DIRECTION) SIZE(NECK)

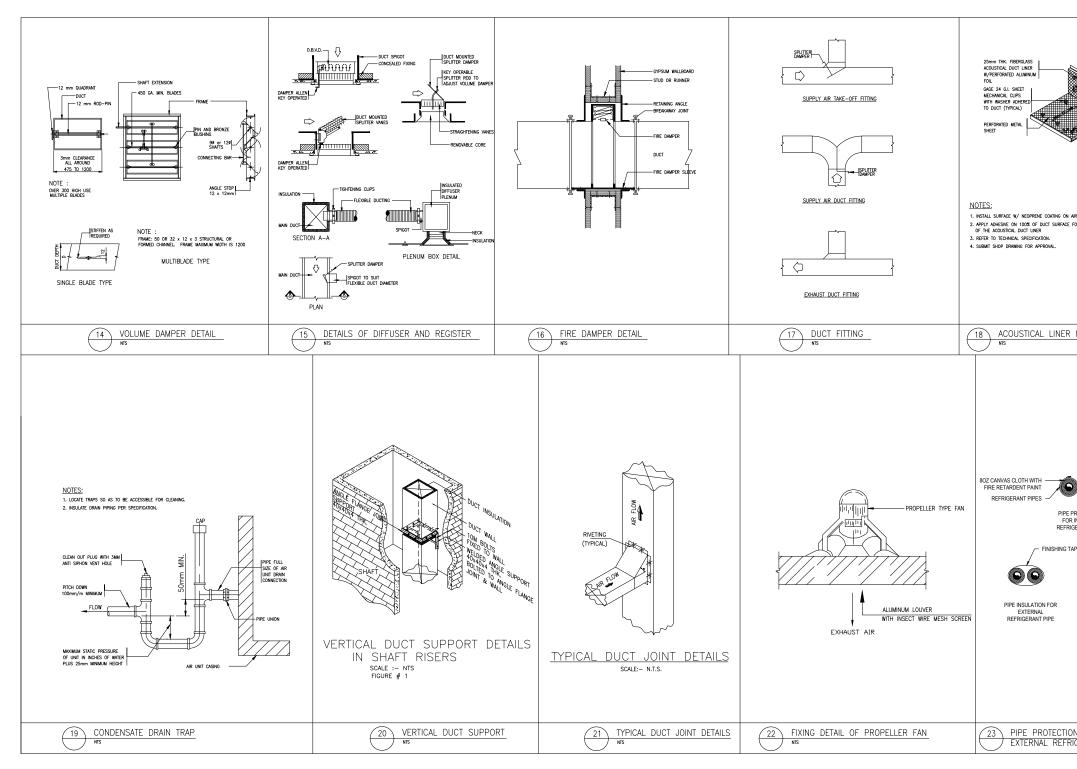
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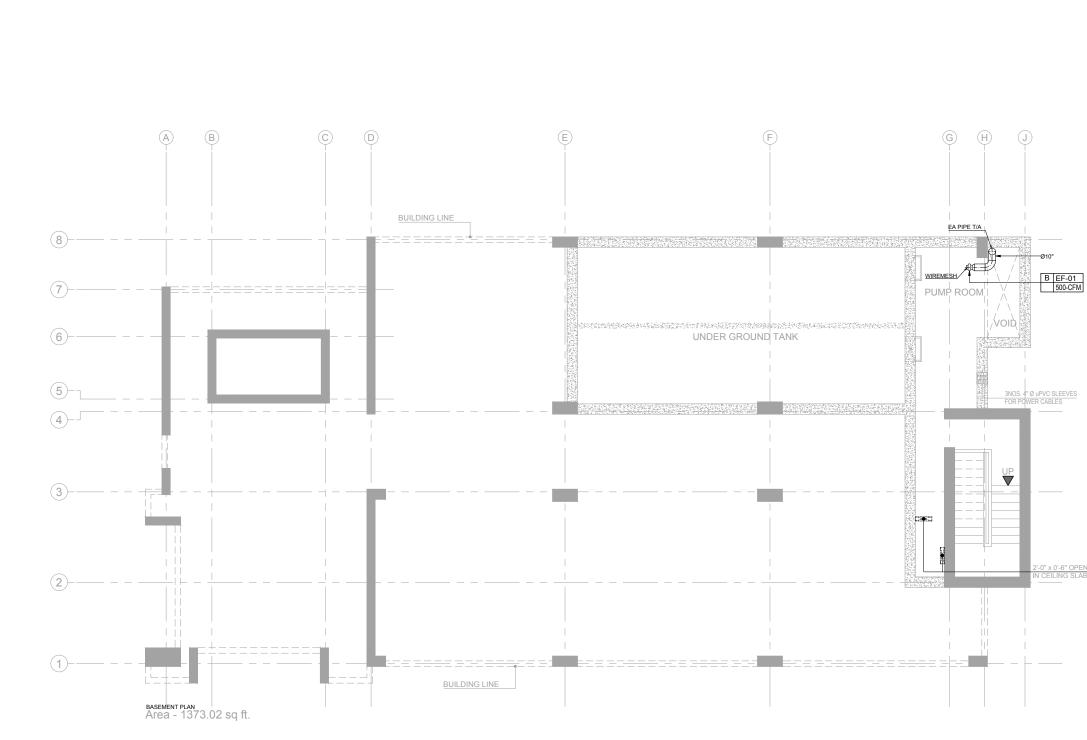
	Client :
DUCT SECTION SUPPLY (SHADE IN W/SIZE)	TESS THE REPORT
DUCT SECTION RETURN OR EXHAUST (SHADE IN W/SIZE)	Consultant :
DUCT SUPPLY TURNING UP (SHADE IN W/SIZE)	
DUCT SUPPLY TURNING DOWN (W/SIZE)	EA Consulting Pvt Ltd Head Office:AL-9. 15h Lane, Khayaban-e-Hilal,Phase 7, Defence Housing Authority, Karachi. 75500 - Pakistan Phone No. 111-111-584, Fax No. 584-1825 Email : info@eavordi.com   www.eawordi.com
DUCT DROP	Project :
DUCT RISER	DEVELOPMENT OF SMIU CAMPUS
FIRE DAMPER W/ACCESS DOOR (HORIZONTAL)	KARACHI
FIRE DAMPER W/ACCESS DOOR (VERTICAL)	Key Plan :
FLEXIBLE DUCT CONNECTION	
SOUND ATTENUATOR	
AIR TRANSFER GRILLE	
COUSTIC DUCT INSULATION - INTERNAL	Note: • All Dimensions to be confirmed on site with architect. • Do not scale. • Only writen dimensions to be followed. • Any discrepancies to be
FLEXIBLE CONNECTION STRAIGHT	clarified with the architect. • For structure details refer, structure engineer drawings / details
FLEXIBLE CONNECTION 90" BEND	
FLEXIBLE CONNECTION 45" BEND	
ACCESS PANEL	01 28.06.2018 ISSUED FOR TENDER 00 25.05.2018 ISSUED FOR TENDER
FLEXIBLE CONNECTION	No.         DATE         DESCRIPTION           REVISIONS           Date of Issue         May 25, 2018
RETURN AIR OUTLET ROUND ARROW INDICATES FLOW DIRECTION)	Issued To Client Issued For Tender
	HVAC
	Status: TENDER
	Building Name: IT BLOCK
	CITY CAMPUS
	Drawing Title :
	GENERAL NOTES, LEGEND & ABBREVIATION SHEET-2
	Designed :         Checked :         Approved :           M.U         M.J         S.Z           Drawn :         Date :         Scale / Sheet :
	Z.S May 2018 NTS Project Code : Rev. :
	00986 01 Drawing No. : EA-00986-SIT-M0-03
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ANT PIPING SCHEMATIC	Consultant : EA Consulting Pvt Ltd Head Office AL-9, 15th Lane, Khayaban-e-Hilal-Phase 7, Defence Housing Authority, Karachi 7550 - Paketan Person Project : DEVELOPMENT OF SMIU CAMPUS KARACHI
	Key Plan : Note: • Al Dimensions to be confirmed on site with architect.
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ANT PIPES INSTALLED ON ROOF OR WALL	01         28.06.2016         ISSUED FOR TENDER           02         25.05.2016         ISSUED FOR TENDER           No.         DATE         DESCRIPTION           REVISIONS           Date of Issue         May 25, 2018           Issued To         Client
	Issued For Tender HVAC Status: TENDER
	Building Name: IT BLOCK CITY CAMPUS
	Drawing Title : HVAC STANDARD DETAIL SHEET-1 Designed : Checked : Approved :
	M.U         M.J         SZ           Drawn :         Date :         Scale / Sheet :

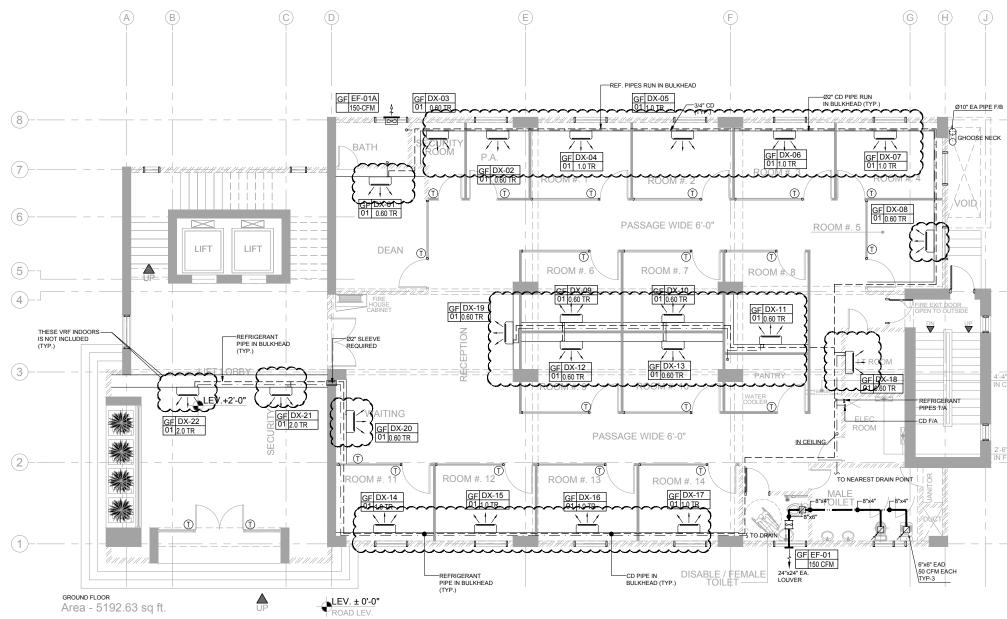


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in ar stream side ce for attachment	DEVELOPMENT OF SMIU CAMPUS KARACHI
R MOUNTING DETAIL	
26 SWG ALUMINIUM SHEET CLOSE CELL INSULATION PE PROTECTION	Note:     North:       • Ail Dimensions to be confirmed     North:       0: not scale     0: not scale       • Only written dimensions to be followed.     Any discrepancies to be clarified with the architect.       • For structure details refer; structure engineer drawings / details     Image: scale
FRIGERANT PIPE 3 TAPE 26 SWG ALUMINIUM JACKETING JACKETING PIPE PROTECTION FOR EXTERNAL REFRIGERANT PIPE	01         28.06.2018         ISSUED FOR TENDER           00         25.05.2018         ISSUED FOR TENDER           No.         DATE         DESCRIPTION           REVISIONS           Date of Issue         May 25, 2018           Issued To         Client         Issued For
	HVAC Status: TENDER
TON FOR INTERNAL & FRIGERANT PIPE NTS	Building Name: IT BLOCK CITY CAMPUS
	HVAC STANDARD DETAIL SHEET-2 Designed : Checked : Approved : MU MJ SZ Drawn : Date : Scale / Sheet : 2.s May 2018 NTS Project Code : Rev. : 00986 01 Drawing No. : EA-00986-SIT-M0-05



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Consultant : EA Consulting Pvt Ltd Head Office AL-9, 15th Lane, Khayaban-e-Hila, Plates 7, Phone No. 11-11-1364, Ex No. 56-1825 Email : Info@eaworld.com   www.eaworld.com Project :				
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Drav	Drawing Title : BASEMENT PLAN VENTILATION LAYOUT			
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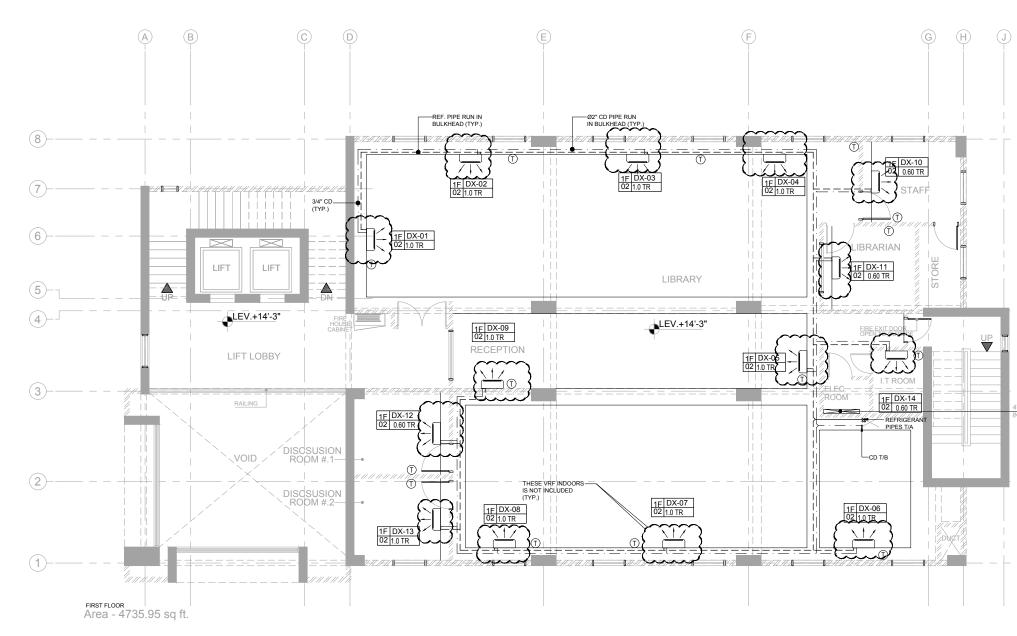
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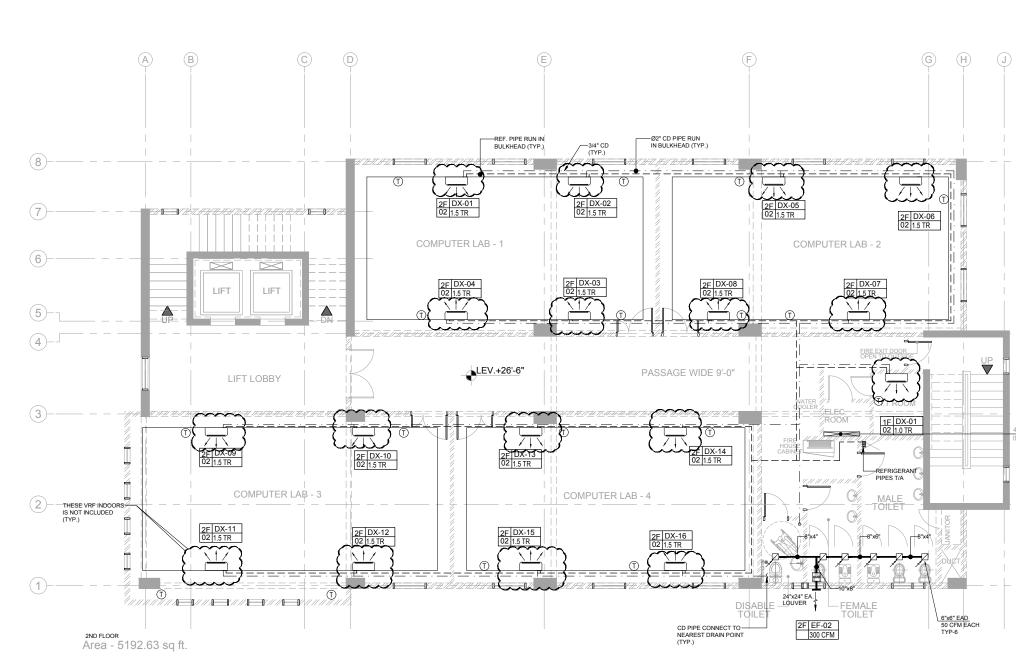
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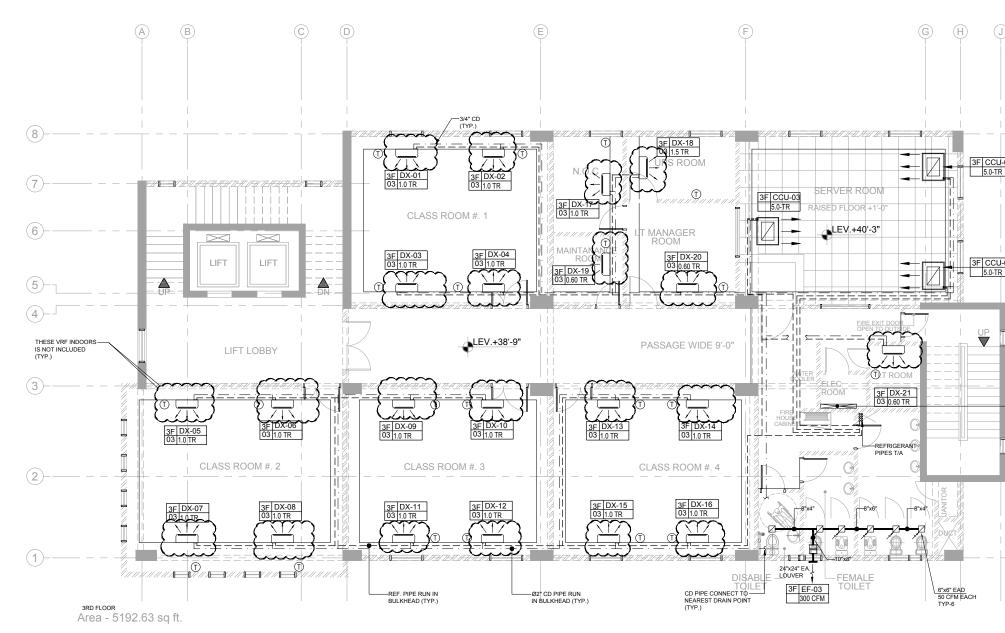
Consultant : EA Consulting Pvt Ltd Head Office:AL-9, 15h Lane, Khayabane-Hille/Hase 7, Defence Housing Authority, Karach, Tax 765 000 - Packate Head Pvt		
DEVELOPMENT OF SMIU CAMPUS		
Note: • All Dimensions to be confirmed on site with architect. • Only written dimensions to be followed.		
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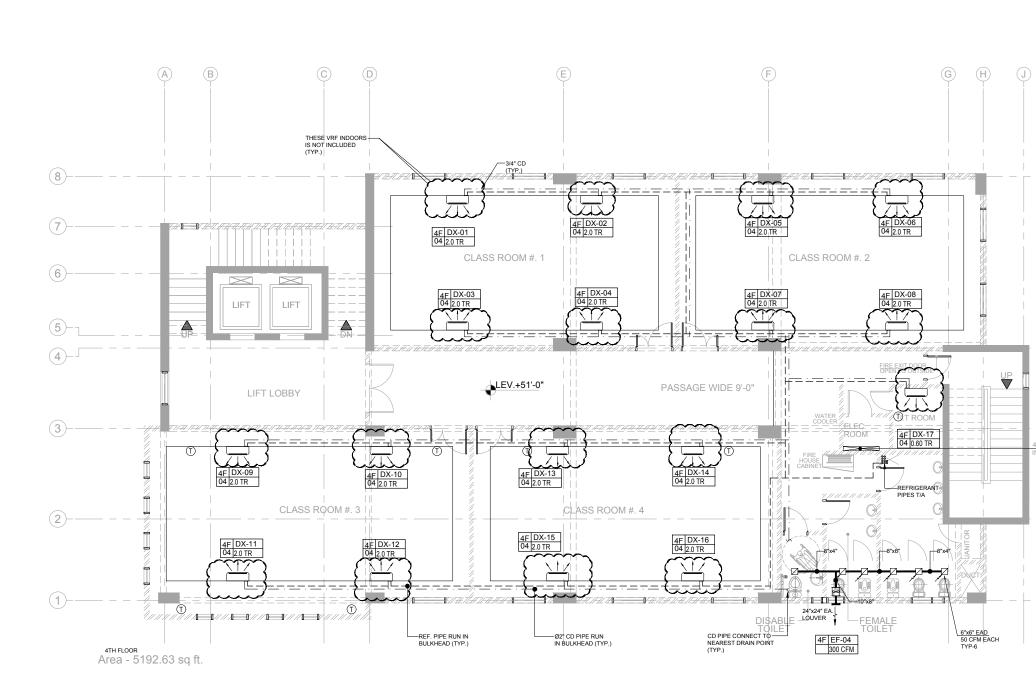


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Consultant : EAC Consulting Pvt Ltd Head Office AL-9, 15h Lane, Khayaban-e-Hill-Phase 7, Define Housing Authority, Karakan-7, 7560 - Pakistan Email : info@eaworld.com   www.eaworld.com Project :			
DEVELOPMENT OF SMIU CAMPUS KARACHI			
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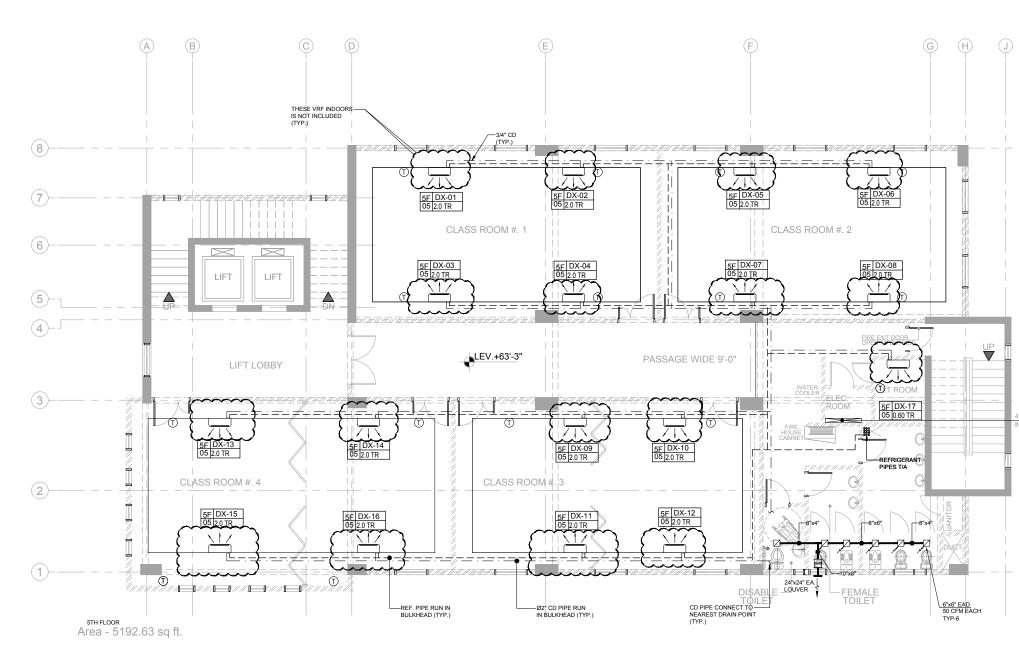


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	Consultant : EACOnsulting Pvt Ltd Head Office AL-9, 15th Lane, Rhayaban-e-Hial Phase 7, Phone No. 111-111-54, ar Fax No. 554-1825 Email : info@eaworld.com   www.eaworld.com Project : Project :
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	CITY CAMPUS
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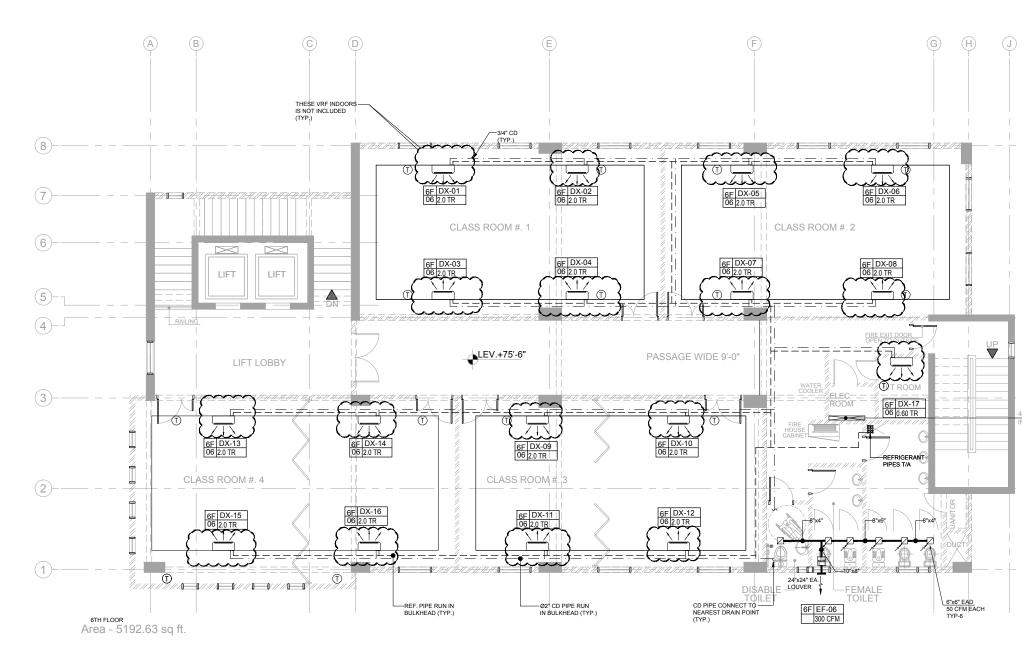
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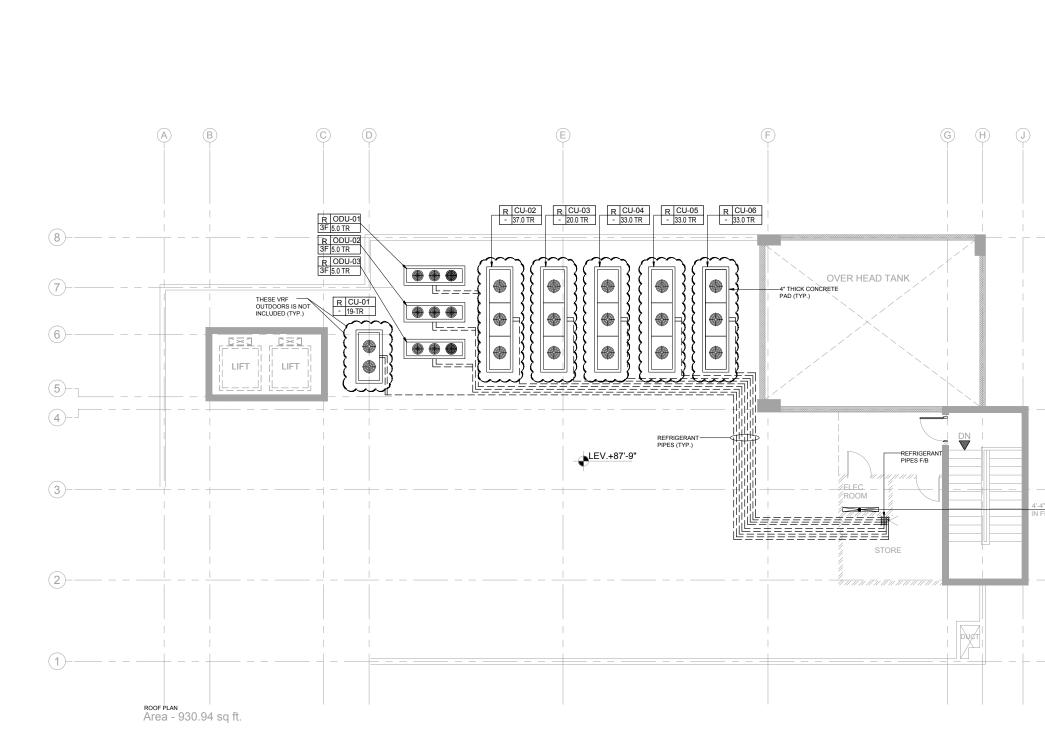
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4'-4" x 0'-6" OPE



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4'-4" x 0'-6" OPENING IN FLOOR SLAB

							DX TY	PE CLOS	SE CONT	ROL UNI	r schedu	LE							
						COOLING	S LOAD	EAT °F	LAT °F	ESP	ELECTRIC	AMBIENT TEMP.				ECTRIC		-	
s. NO.	TAG NO.	AREA SERVED	LOCATION	TYPE	<b>QTY</b> .	SENSIBLE	TOTAL				HEATER	DB/WB	CONDENSER TYPE	REFRIGERANT TYPE	ELI	20 TRIC	AL DA	.1A	REMARK
						МВН	мвн	DB/WB	DB/WB	INCH WG	ĸw	F			v	PH	ΗZ	kW	
1	CCU-1 TO 3 & ODU-1 TO 3	SERVER ROOM	CCU-THIRD FLOOR, ODU- ROOF	FLOOR STANDING TOP SUPPLY FRONT RETURN	3	60	60	68 / 62	55 / 54	0.4	6	115/85	AIR-COOLED	GREEN GAS	400	1	50	11	2-DUTY, 1 STANDB

						FAN	DATA		MOTOR DA	ТА	APPROX. OPERATING	
6.No	TAG	SERVICE	LOCATION	TYPE	QTY.	FLOW (CFM)	ESP (Inch of W.G)	RPM	POWER (KW)	V-PH-HZ	WEIGHT (Kg)	REMARKS
1	EF-01	PUMP ROOM	BASEMENT	CIRCULAR INLINE CENTRIFUGAL	1	500	0.3	-	0.20	220-1-50	-	
2	EF-01	MALE/ FEMALE TOILET EXHAUST	GROUND FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	150	0.3	-	0.20	220-1-50	-	
3	EF-01A	DEAN	GROUND FLOOR	PROPELLER	1	150	0.1	-	0.20	220-1-50	-	
4	EF-02	MALE/ FEMALE TOILET EXHAUST	SECOND FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	300	0.4	-	0.35	220-1-50	-	-
5	EF-03	MALE/ FEMALE TOILET EXHAUST	THIRD FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	300	0.4	-	0.35	220-1-50	-	-
6	EF-04	MALE/ FEMALE TOILET EXHAUST	FOURTH FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	300	0.4	-	0.35	220-1-50	-	-
7	EF-05	MALE/ FEMALE TOILET EXHAUST	FIFTH FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	300	0.4	-	0.35	220-1-50	-	-
8	EF-06	MALE/ FEMALE TOILET EXHAUST	SIXTH FLOOR	CIRCULAR INLINE CENTRIFUGAL	1	300	0.4	-	0.35	220-1-50	-	-

1. CONTRACTOR SHALL SUBMIT CALCULATIONS FOR REQUIRED STATIC PRESSURE FOR ALL FANS AND OBTAIN ENGINEER'S APPROVAL BEFORE ORDERING THE FANS. THE REQUIRED FAN AND MOTOR HP SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

S. NO.	TAG NO.	INDOOR UNIT SERVED	LOCATION	TOTAL COOLING LOAD	AMBIENT TEMP.	REFRIGERANT	EL	ECTRI	CAL DA	ТА	QTY.	REMARK
				TR	۴F		ν	PH	HZ	kW		
1	CU-01	DX-01 TO 22 (GROUND FLOOR)	ROOF	19	115	R-410A	400	3	50	23	1	
2	CU-02	DX-01 TO 14 (FIRST FLOOR) & DX-01 TO 17 (SECOND FLOOR)	ROOF	37	115	R-410A	400	3	50	44	1	-
3	CU-03	DX-01 TO 21 (THIRD FLOOR)	ROOF	20	115	R-410A	400	3	50	24	1	-
4	CU-04	DX-01 TO 17 (FOURTH FLOOR)	ROOF	33	115	R-410A	400	3	50	39	1	
5	CU-05	DX-01 TO 17 (FIFTH FLOOR)	ROOF	33	115	R-410A	400	3	50	39	1	
6	CU-06	DX-01 TO 17 (SIXTH FLOOR)	ROOF	33	115	R-410A	400	3	50	39	1	-

Consultant : EA Consulting Pvt Ltd Head Office Al-9, 15th Lane, Khayaban-e-Hilal Phase 7, Defence Housing Authority, Karakir, 75500 - Pakstan Phore No. 544-1825 Email : info@eavorid.com | www.eavend.com roiect DEVELOPMENT OF SMIU CAMPUS KARACHI Key Plan : Note: • All Dimensions to be confirme on site with architect. • Do not scale. • Only written dimensions to be followed. Any discrepancies to be clarified with the architect. • structure engineer drawings / details North 1019 
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 DESCRIPTION
 REVISIONS 
 Date of Issue
 May 25, 2018

 Issued To
 Client

 Issued For
 Tender
 HVAC Status: TENDER Building Name: IT BLOCK CITY CAMPUS Drawing Title : HVAC EQUIPMENT SCHEDULE SHEET-1 esigned Checked : Approved : J <u>S.Z</u> Scale / Sheet : NTS Date Z.S Project Code : May 2018 Rev. 01 00986 rawing No EA-00986-SIT-M2-01

						ND FLOOR							
				VARIA	ABLE REFRIGER	ANT FLOW U	NIT (INDOOR)						
				COOL	ING LOAD	EAT [°] F	LAT [°] F		EL EC	RICAL			
5. NO.	TAG NO.	AREA SERVED	LOCATION	SENSIBLE	TOTAL	DB/WB	DB/WB		ELEC	RICAL		QTY.	REMARKS
				TR	TR			v	PH	HZ	kW		
1	DX-01	DEAN	GROUND FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
2	DX-02	PA	GROUND FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
3	DX-03	SECURITY ROOM	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
4	DX-04	ROOM#1	GROUND FLOOR	0.90	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
5	DX-05	ROOM#2	GROUND FLOOR	1.00	1.00	75 / 62.6	55 / 54	440	3	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
6	DX-06	ROOM#3	GROUND FLOOR	1.00	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL
7	DX-07	ROOM#4	GROUND FLOOR	0.90	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	MOUNTED DECORATIVE TYPE WALL
-													MOUNTED DECORATIVE TYPE WALL
8	DX-08	ROOM#5	GROUND FLOOR	0.60	0.60	75 / 62.6	55 / 54	440	3	50	0.10	1	MOUNTED DECORATIVE TYPE WALL
9	DX-09	ROOM#6	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	MOUNTED	
10	DX-10	ROOM#7	GROUND FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1 DECORATIVE TYPE W. MOUNTED	
11	DX-11	ROOM#8	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1 DECORATIVE TYPE WA MOUNTED	
12	DX-12	ROOM#9	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	440	3	50	0.10	1 DECORATIVE TYPE W MOUNTED	
13	DX-13	ROOM#10	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1 DECORATIVE TYP	
14	DX-14	ROOM#11	GROUND FLOOR	1.00	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
15	DX-15	ROOM#12	GROUND FLOOR	0.90	1.00	75 / 62.6	55 / 54	440	3	50	0.10	1 DECORATIVE TYPE WA	
16	DX-15	ROOM#12	GROUND FLOOR	0.90	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	MOUNTED DECORATIVE TYPE WALL
													MOUNTED DECORATIVE TYPE WALL
17	DX-17	ROOM#14	GROUND FLOOR	0.90	1.00	75 / 62.6	55 / 54	220	1	50	0.10	1	MOUNTED DECORATIVE TYPE WALL
18	DX-18	IT ROOM	GROUND FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	MOUNTED
19	DX-19 & 20	WAITING/ RECEPTION	GROUND FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	2	DECORATIVE TYPE WALL MOUNTED
20	DX-21 & 22	SECURITY ENTRANCE	GROUND FLOOR	1.90	2.00	75 / 62.6	55 / 54	220	1	50	0.10	2	DECORATIVE TYPE WALL MOUNTED
OTES:	RANT PIPE SIZES SHALL	BE AS PER MANUFACTURER'S RE	COMMENDATION.										
CONTRA	CTOR TO VERIFY UNITS E	ELECTRICAL POWER REQUIREMEN	NT.										
					FIRS	T FLOOR							
				VARIA	ABLE REFRIGER	ANT FLOW U	NIT (INDOOR)						
				COOL	ING LOAD	EAT [°] F	LAT [°] F						
5. NO.	TAG NO.	AREA SERVED	LOCATION	SENSIBLE	TOTAL			ELECTRICAL DATA		DATA	QTY.	REMARKS	
		/				DB/WB	DB/WB	v	PH	LI7	kW	-	
				TR	TR					HZ			DECORATIVE TYPE WALL
1	DX-01 TO DX-9	LIBRARY	FIRST FLOOR	0.92	1.00	75 / 62.6	55 / 54	220	1	50	0.10	9	MOUNTED
2	DX-10	STAFF	FIRST FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
3	DX-11	LIBRARIAN	FIRST FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE FLOOP STANDING
4	DX-12	DISCUSSION ROOM-1	FIRST FLOOR	0.50	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
5	DX-13		FIDOT FLOOD	0.90						50	0.10		DECORATIVE TYPE WALL
6		DISCUSSION ROOM-2	FIRST FLOOR	0.90	1.00	75 / 62.6	55 / 54	220	1			1	
	DX-14	DISCUSSION ROOM-2							1		0.10	1	MOUNTED DECORATIVE TYPE WALL
OTES:		IT ROOM	FIRST FLOOR	0.90	0.60	75 / 62.6	55 / 54 55 / 54	220 220		50	0.10		MOUNTED
OTES: . REFRIGE	RANT PIPE SIZES SHALL	210000010111001112	FIRST FLOOR								0.10		MOUNTED DECORATIVE TYPE WALL
OTES: REFRIGE	RANT PIPE SIZES SHALL	IT ROOM	FIRST FLOOR		0.60						0.10		MOUNTED DECORATIVE TYPE WALL
OTES: REFRIGE	RANT PIPE SIZES SHALL	IT ROOM	FIRST FLOOR	0.60	0.60	75/62.6	55 / 54	220			0.10		MOUNTED DECORATIVE TYPE WALL
OTES: REFRIGE	RANT PIPE SIZES SHALL	IT ROOM	FIRST FLOOR	0.60 VARIA	0.60	75/62.6	55 / 54	220	1	50			MOUNTED DECORATIVE TYPE WALL
OTES: REFRIGE CONTRA	RANT PIPE SIZES SHALL	IT ROOM	FIRST FLOOR	0.60 VARIA	0.60 SECOI	75/62.6	55 / 54	220	1				MOUNTED DECORATIVE TYPE WALL
DTES: REFRIGE CONTRA	RANT PIPE SIZES SHALL	IT ROOM BE AS PER MANUFACTURER'S RE LECTRICAL POWER REQUIREMEN	FIRST FLOOR	0.60 VARI/ COOL SENSIBLE	0.60 SECOI ABLE REFRIGER. ING LOAD TOTAL	75/62.6	55 / 54	220	1 ELEC	50	DATA	1	MOUNTED DECORTUPE TYPE WALL MOUNTED
S. NO.	TAG NO.	IT ROOM BE AS PER MANUFACTURERS RE LECTRICAL FOWER REQUIREMENT AREA SERVED		0.60 VARIA COOL SENSIBLE TR	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR	75/62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB	55/54 NIT (INDOOR) LAT [*] F DB/WB	220 V	1 ELEC	50 FRICAL HZ	DATA	QTY.	MOUNTED DECORATURE TYPE WALL MOUNTED REMARKS
S. NO.	TAG NO.	IT ROOM BE AS PER MANUFACTURERS RE LECTRICAL POWER REDUREMEN AREA SERVED COMPUTER LAB-1	FIRST FLOOR COMMENDATION. T. LOCATION SECOND FLOOR	0.60 VARIA COOL SENSIBLE TR 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6	55 / 54	220 V 220	1 ELEC ⁻ PH 1	50 FRICAL HZ 50	DATA kW 0.10	1 QTY. 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED
S. NO.	TAG NO.	IT ROOM BE AS PER MANUFACTURERS RE LECTRICAL FOWER REQUIREMENT AREA SERVED		0.60 VARIA COOL SENSIBLE TR	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR	75/62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB	55/54 NIT (INDOOR) LAT [*] F DB/WB	220 V	1 ELEC	50 FRICAL HZ	DATA	QTY.	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED
S. NO.	TAG NO.	IT ROOM BE AS PER MANUFACTURERS RE LECTRICAL POWER REDUREMEN AREA SERVED COMPUTER LAB-1	FIRST FLOOR COMMENDATION. T. LOCATION SECOND FLOOR	0.60 VARIA COOL SENSIBLE TR 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6	55 / 54	220 V 220	1 ELEC ⁻ PH 1	50 FRICAL HZ 50	DATA kW 0.10	1 QTY. 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED
S. NO.	TAG NO. DX-01 TO 04 DX-05 TO 08	IT ROOM BE AS PER MANAGEMENT REQUIREMENT ELECTRICAL POWER REQUIREMENT AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2	FIRST FLOOR COMMERCATION. IT. LOCATION SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50	75 / 62.6 ND FLOOR ANT FLOW U EAT 'F DB/WB 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT [•] F DB/WB 55 / 54 55 / 54	220 V 220 220	1 ELEC [*] PH 1 1	50 FRICAL HZ 50 50	DATA kW 0.10 0.10	1 QTY. 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED
S. NO.	TAG NO. TAG NO. DX-01 TO 04 DX-05 TO 08 DX-09 TO 12	IT ROOM BE AS PER MANUFACTURERE REDURERED AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3	FIRST FLOOR COMMERCATION. IT. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54	220 V 220 220 220 220	1 ELEC [*] PH 1 1 1	50 FRICAL HZ 50 50 50	DATA kW 0.10 0.10 0.10	1 QTY. 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL DECORATIVE TYPE WALL DECORATIVE TYPE WALL DECORATIVE TYPE WALL
INTES: REFRIGE CONTRA S. NO. 1 2 3 4 5 5 5 70TES:	TAG NO. TAG NO. DX-01 TO 04 DX-05 TO 08 DX-09 TO 12 DX-17 CALLED TO 16 DX-17 CRANT PIPE SIZES SHALL	IT ROOM BE AS PER MANUFACTURERS RE AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANUFACTURERS RE	FIRST FLOOR COMMENDATION. T. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 1.50	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT [°] F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54	220 V 220 220 220 220 220	1 ELEC [*] PH 1 1 1 1	50 FRICAL HZ 50 50 50 50 50	<b>bATA</b> 0.10 0.10 0.10 0.10	1 QTY. 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED
OTES: REFRIGIC CONTRA S. NO. 1 2 3 4 5 5 0TES: REFRIGIC	TAG NO. TAG NO. DX-01 TO 04 DX-05 TO 08 DX-09 TO 12 DX-17 CALLED TO 16 DX-17 CRANT PIPE SIZES SHALL	IT ROOM BE AS PER MANAFACTURERS RE ELECTRICAL POWER REDURERS AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM	FIRST FLOOR COMMENDATION. T. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 1.50 0.60	75 / 62.6 ND FLOOR ANT FLOW U EAT "F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT [°] F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54	220 V 220 220 220 220 220	1 ELEC [*] PH 1 1 1 1	50 FRICAL HZ 50 50 50 50 50	<b>bATA</b> 0.10 0.10 0.10 0.10	1 QTY. 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL DECORATIVE TYPE WALL
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INTES: REFRIGE CONTRA S. NO. 1 2 3 4 5 5 5 70TES:	TAG NO. TAG NO. DX-01 TO 04 DX-05 TO 08 DX-09 TO 12 DX-17 CALLED TO 16 DX-17 CRANT PIPE SIZES SHALL	IT ROOM BE AS PER MANUFACTURERS RE AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANUFACTURERS RE	FIRST FLOOR COMMENDATION. T. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 1.35 0.60	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 1.50 0.60 THIR	75 / 62.6 ND FLOOR ANT FLOW U EAT 'F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT [*] F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54	220 V 220 220 220 220 220 220	1 ELEC PH 1 1 1 1 1	50 TRICAL HZ 50 50 50 50 50 50	DATA KW 0.10 0.10 0.10 0.10 0.10	1 QTY. 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL
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S. NO.	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-09 TO 12           DX-13 TO 16           DX-17           DX-17           DX-17 TO VERIPY UNITS I	IT ROOM BE AS PER MANUFACTURERS RE AREA SERVED COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANUFACTURERS RE AREA SERVED AREA SERVED	FIRST FLOOR FIRST FLOOR IT. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR	75 / 62.6 ND FLOOR ANT FLOW UI EAT [*] F DB/WB 75 / 62.6 75 / 75 / 75 / 75 / 75 / 75 / 75 / 75 /	55 / 54 NIT (INDOOR) LAT [*] F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54 NIT (INDOOR) LAT [*] F DB/WB	220 V 220 220 220 220 220 220	1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 FRICAL HZ 50 50 50 50 50 50 50 50 50 50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW	1 QTY. 4 4 4 4 1	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED
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07ES. REPROJACIÓN S. NO. 1 2 3 4 5 5 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-17 TO 12           DX-13 TO 16           DX-17 TO 16           DX-17           DX-17 TO 17           DX-17 TO 16           DX-17           DX-17 TO 17           DX-17           DX-10           DX-17           DX-10           DX-17	IT ROOM BE AS PER MANAFACTURERS RE LECTRICAL POWER REDURERS RE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PERCENTRAL POWER REDURERS RE LECTRICAL POWER REDURERS REPORTED REDURERS REDURER	LICCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR THIRD FLOOR THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR 0.90 0.90	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR 1.00 1.00	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 0 FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54	220 V 220 220 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 TRICAL HZ 50 50 50 50 50 TRICAL HZ 50 50 50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10 0.10	QTY. 4 4 4 1 2 2 2 7 7 4 4 4 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL DECORATIVE TYPE WALL DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE FLOOP
OTES: REFRIGUENTRA S. NO. 1 2 3 4 5 5 00TES: CONTRA 5 5 00TES: CONTRA 5 5 00TES: 5 00TES: 5 00TES: 5 00TES: 5 00TES: 5 00TES: 5 00TES: 5 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 00TES 0	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-07 TO 12           DX-13 TO 16           DX-17           DX-17 TO VERPY UNTS I           TAG NO.	IT ROOM IT ROOM IT ADDITION IT AND A THE AMANGATURENEE ILECTRICAL POWER REDURENEE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM IT ROOM IT ROUMERENEE AREA SERVED CLASS ROOM-1 CLASS ROOM-1	FIRST FLOOR FIRST FLOOR COMMERCATION. IT. LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR 0.90	0.60  SECOI  ABLE REFRIGER  ING LOAD  TOTAL  TR  1.50  1.50  1.50  0.60  THIRI  ABLE REFRIGER  ING LOAD  TOTAL  TR  1.00	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 0 FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6	55 / 54 NIT (INDOOR) LAT [*] F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54 NIT (INDOOR) LAT [*] F DB/WB 55 / 54	220 V 220 220 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 1 ELEC PH 1 1	50           50           FRICAL           HZ           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           FRICAL           HZ           50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10	QTY. 4 4 4 1 2 QTY. 4 4 4 4 4 4 4 4 4 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL
I           2           3           4           5           7           8           NO.           1           2           3           4           5           7           8           NO.           1           2           3           4           5           7           8           1           2	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-17 TO 12           DX-13 TO 16           DX-17 TO 16           DX-17           DX-17 TO 17           DX-17 TO 16           DX-17           DX-17 TO 17           DX-17           DX-10           DX-17           DX-10           DX-17	IT ROOM BE AS PER MANAFACTURERS RE LECTRICAL POWER REDURERS RE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PERCENTRAL POWER REDURERS RE LECTRICAL POWER REDURERS REPORTED REDURERS REDURER	LICCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR THIRD FLOOR THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR 0.90 0.90	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR 1.00 1.00	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 0 FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54	220 V 220 220 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 TRICAL HZ 50 50 50 50 50 TRICAL HZ 50 50 50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10 0.10	QTY. 4 4 4 1 2 2 2 7 7 4 4 4 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL DECORATIVE TYPE WALL DECORATIVE TYPE WALL MOUNTED
07E8: REFRIGUENTRA 3 4 5 5 07E8: REFRIGUENTRA 5 5 07E8: 0.00000000000000000000000000000000000	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-05 TO 08           DX-13 TO 16           DX-17           DK-17 TO VERIFY UNITS I           TAG NO.	IT ROOM BE AS PER MANJFACTURERS RE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANJFACTURERS RE COMPUTER LAB-3 COMPUTER LA	FIRST FLOOR COMMENDATION TT LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR COMMENDATION TT HIRD FLOOR THIRD FLOOR THIRD FLOOR THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR 0.90 0.90	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR 1.00 1.00 1.00	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 O FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54 55 / 54 S5 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54 55 / 54	220 V 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 TRICAL 50 50 50 50 50 50 50 50 50 50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10 0.10 0.10 0.10	1 QTY. 4 4 4 1 2 QTY. 4 4 4 4 4 4 4 4 4 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED
Tortes:         REFRIGUENTRA           1         2           3         4           5         Tortes:           0         REFRIGUENTRA           1         2           3         4           5         S. NO.           1         2           3         4           5         3           4         3           4         4	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-05 TO 08           DX-05 TO 08           DX-07 TO 12           DX-17 TO 14           DX-07 TO 12           DX-17 TO 16           DX-17 TO 16           DX-17 TO 19 ERRY UNITS 1           CTOR TO 12 ERRY UNITS 1           DX-05 TO 08           DX-01 TO 04           DX-05 TO 08           DX-01 TO 04           DX-05 TO 08           DX-01 TO 04           DX-05 TO 12           DX-13 TO 16	IT ROOM BE AS PER MANJFACTURERS RE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANJFACTURERS RE LECTRICAL POWER REQUIREMENT CLASS ROOM-1 CLASS ROOM-1 CLASS ROOM-3 CLASS ROOM-3 CLASS ROOM-4	FIRST FLOOR FIRST FLOOR COMMENDATION TT LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR COMMENDATION THIRD FLOOR THIRD FLOOR THIRD FLOOR THIRD FLOOR THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 0.80 VARI/ COOL SENSIBLE TR 0.90 0.90 0.90	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR 1.00 1.00 1.00	75 / 62.6 ND FLOOR ANT FLOW UI EAT [*] F DB/WB 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 75 / 62.6 0 FLOOR ANT FLOW UI EAT [*] F DB/WB 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54 S5 / 54 S5 / 54 S5 / 54 S5 / 54 55 / 54 55 / 54 55 / 54 55 / 54 55 / 54	220 V 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1	50           50           FRICAL           HZ           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10 0.10 0.10 0.10 0.10	1 QTY. 4 4 4 1 1 QTY. 4 4 4 4 4 4 4 4 4 4 4 4 4	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL
OTES:           REFRIGUE           3           4           5           OTES:           CONTRA	TAG NO.           DX-01 TO 04           DX-01 TO 04           DX-05 TO 08           DX-05 TO 08           DX-05 TO 08           DX-17 TO 12           DX-17 TO VERIPY UNITS I           TAG NO.           TAG NO.           DX-05 TO 08           DX-17 TO 12           DX-17 TO VERIPY UNITS I           TAG NO.           TAG NO.           DX-01 TO 04           DX-09 TO 12           DX-09 TO 12           DX-09 TO 12           DX-17 TO 16           DX-17	IT ROOM IT ROOM BE AS PER MANUFACTURERS RE COMPUTER LAB-1 COMPUTER LAB-2 COMPUTER LAB-3 COMPUTER LAB-3 COMPUTER LAB-4 IT ROOM BE AS PER MANUFACTURERS RE COMPUTER LAB-4 IT ROOM CLASS ROOM-1 CLASS ROOM-3 CLASS ROOM-3 CLASS ROOM-3 CLASS ROOM-4 NOC	FIRST FLOOR FIRST FLOOR COMMENDATION TT LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR COMMENDATION THIRD FLOOR	0.60 VARI/ COOL SENSIBLE TR 1.35 1.35 1.35 1.35 0.60 VARI/ COOL SENSIBLE TR 0.90 0.90 0.90 0.90 0.90	0.60 SECOI ABLE REFRIGER ING LOAD TOTAL TR 1.50 1.50 1.50 0.60 THIRI ABLE REFRIGER ING LOAD TOTAL TR 1.00 1.00 1.00 1.00	75 / 62.6 ND FLOOR ANT FLOW U EAT [*] F DB/WB 75 / 62.6 75 / 62.6	55 / 54 NIT (INDOOR) LAT 'F DB/WB 55 / 54 55 / 54	220 V 220 220 220 220 220 220 22	1 ELEC PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50           50           FRICAL           HZ           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50           50	DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 DATA KW 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	1           QTY.           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           1	MOUNTED DECORATIVE TYPE WALL MOUNTED REMARKS DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED DECORATIVE TYPE WALL MOUNTED

					FOUR	TH FLOOR							
				VARIA	ABLE REFRIGER	ANT FLOW U	NIT (INDOOR)						
				COOL	ING LOAD	EAT [°] F	LAT F						
6. NO.	TAG NO.	AREA SERVED	LOCATION	SENSIBLE	TOTAL		221/2	1	ELEC	FRICAL	DATA	QTY.	REMARKS
				TR	TR	DB/WB	DB/WB	v	PH	HZ	kW		
1	DX-01 TO 04	CLASS ROOM-1	FOURTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
2	DX-05 TO 08	CLASS ROOM-2	FOURTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
3	DX-09 TO 12	CLASS ROOM-3	FOURTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
4	DX-13 TO 16	CLASS ROOM-4	FOURTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
5	DX-17	IT ROOM	FOURTH FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
TES:	ANT PIPE SIZES SHALL	IT ROOM BE AS PER MANUFACTURER'S RI LECTRICAL POWER REQUIREME	ECOMMENDATION.	0.60	0.60	75762.6	55 / 54	220	1	50	0.10	1	MOUNTED

				VARIA	ABLE REFRIGER	ANT FLOW U	NIT (INDOOR)						
				COOL	ING LOAD	EAT [°] F	LAT [°] F		51.50	TRICAL			
S. NO.	TAG NO.	AREA SERVED	LOCATION	SENSIBLE	TOTAL	DDAMD	DB/WB		ELEC	IRICAL	DATA	QTY.	REMARKS
				TR	TR	DB/WB	DB/WB	v	РН	нz	kW	1	
1	DX-01 TO 04	CLASS ROOM-1	FIFTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
2	DX-05 TO 08	CLASS ROOM-2	FIFTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
3	DX-09 TO 12	CLASS ROOM-3	FIFTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
4	DX-13 TO 16	CLASS ROOM-4	FIFTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
5	DX-17	IT ROOM	FIFTH FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
		BE AS PER MANUFACTURER'S RE											

1. REFRIGERANT PIPE SIZES SHALL BE AS PER MANUFACTURER'S RECOMMENDATION 2. CONTRACTOR TO VERIFY UNITS ELECTRICAL POWER REQUIREMENT.

					SIXT	H FLOOR							
				VARIA	BLE REFRIGER	ANT FLOW U	NIT (INDOOR)	)					
				COOL	ING LOAD	EAT [°] F	LAT [°] F		<b>FI FO</b>		DATA		
S. NO.	TAG NO.	AREA SERVED	LOCATION	SENSIBLE	TOTAL	DDAMD	DDAMD	1	ELEC	FRICAL	DATA	QTY.	REMARKS
				TR	TR	DB/WB	DB/WB	v	PH	нz	kW	1	
1	DX-01 TO 04	CLASS ROOM-1	SIXTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
2	DX-05 TO 08	CLASS ROOM-2	SIXTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
3	DX-09 TO 12	CLASS ROOM-3	SIXTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
4	DX-13 TO 16	CLASS ROOM-4	SIXTH FLOOR	1.85	2.00	75 / 62.6	55 / 54	220	1	50	0.10	4	DECORATIVE TYPE WALL MOUNTED
5	DX-17	IT ROOM	SIXTH FLOOR	0.60	0.60	75 / 62.6	55 / 54	220	1	50	0.10	1	DECORATIVE TYPE WALL MOUNTED
		BE AS PER MANUFACTURER'S RE ELECTRICAL POWER REQUIREMENT											

Note:       Note:         No	Clie	nt :	
Note:       Interesting Project:         Project:       DEVELOPMENT OF SMIU CAMPUS KARACHI         Project:       DEVELOPMENT OF SMIU CAMPUS KARACHI         Key Plan::       Image: State Stat		SOLAN HOLE	
head office AL-3. fshi Lane, Yorghan, e-Hill Thate, 7550       Packstar         Project ::       DEVELOPMENT OF         SMIU CAMPUS       SMIU CAMPUS         Key Plan ::       KARACHI         Key Plan ::       Image and the architect.         Note::       Not scale.         • Any discrepancies to be confirmed on site with architect.       North:         • Any discrepancies to be clarified with architect.       Image and the architect.         • On scale.       Image and the architect.         • Any discrepancies to be clarified with architect.       Image and the architect.         • Any discrepancies to be clarified with architect.       Image and the architect.         • Any discrepancies to be clarified with architect.       Image and the architect.         • On scale.       Image and the architect.         • Any discrepancies to be clarified with architect.       Image and the architect.         • Any discrepancies to be clarified with architect.       Image and the architect.         • On scale.       Image and the architect.         • On actale.       Image and the architect. <th>Con</th> <th>sultant :</th> <th></th>	Con	sultant :	
DEVELOPMENT OF SMIU CAMPUS KARACHI         Key Plan :         Key Plan :         Note:         • All Dimensions to be confirmed on site with architect.         • Do not sate:         • followed.	Ema	d Office:AL-9, ence Housing ne No. 111 iil : info@e	15th Lane, Khayaban-e-Hilal, Phase 7, Authority, Karachi, 75500 - Pakistan
SMIU CAMPUS KARACHI         Key Plan :         Key Plan :         Mill Omensions to be confirmed on site with architect.         Do not scale.         Only written dimensions to be followed.         Any diagraphic teats refer. structure engineer drawings.         Por efsculer of 1 28.06.2018 ISSUED FOR TENDER of 25.06.2018 ISSUED FOR TENDER IT BLOCK OF 25.06.2018 ISSUED FOR TENDER ISSUED FOR TENDER I			
Note:       All Dimensions to be confirmed on site with architect.       North:         • Any discrepancies to be clarified with architect.       For structure details refer.       Image: Structure details refer.         • Only written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly details       Image: Structure details refer.       Image: Structure details refer.         • Orly 28.08.2018       Issued For TENDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TENDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TenDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TenDER       Image: Structure details refer.         • Date of Issue       May 25, 2018       Issued For TenDer         • Date of Issue       May 25, 2018       Issued For Tender         Building Name:       IT BLOCK       IT BLOCK         IT BLOCK       CITY CAMPUS       Image: Structure details refer.         Drawing Title :       Mu       Mu       Structure details refer. <td< th=""><th>  1</th><th>SM</th><th>IU CAMPUS</th></td<>	1	SM	IU CAMPUS
Note:       All Dimensions to be confirmed on site with architect.       North:         • Any discrepancies to be clarified with architect.       For structure details refer.       Image: Structure details refer.         • Only written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly written details refer.       Image: Structure details refer.       Image: Structure details refer.         • Orly details       Image: Structure details refer.       Image: Structure details refer.         • Orly 28.08.2018       Issued For TENDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TENDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TenDER       Image: Structure details refer.         • Orly 28.08.2018       Issued For TenDER       Image: Structure details refer.         • Date of Issue       May 25, 2018       Issued For TenDer         • Date of Issue       May 25, 2018       Issued For Tender         Building Name:       IT BLOCK       IT BLOCK         IT BLOCK       CITY CAMPUS       Image: Structure details refer.         Drawing Title :       Mu       Mu       Structure details refer. <td< th=""><th>Kev</th><th>Plan ·</th><th></th></td<>	Kev	Plan ·	
All Dimensions to be confirmed on steale.     Don't scale.     Conty writen dimensions to be darfied with the architect.     For structure details refer. structure engineer drawings./ details     details     d			
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0         25.05.2018         ISSUED FOR TENDER           No.         DATE         DESCRIPTION           REVISIONS           Date of Issue         May 25, 2018           Issued To           Client         Issued For           ISSUED FOR TENDER           Building Name:           IT BLOCK CITY CAMPUS           Drawing Title :         HVAC EQUIPMENT SCHEDULE SHEET-2           Designed :         Checked :         Approved :           MJ         MJ         S.Z           Project Code :         May 2018         NTS           Project Code :         00986         01           Drawing No. :         Colspan="2">Colspan="2">Colspan="2">Checked :	• D • C • A cl • F s	n site with an o not scale. Inly written di blowed. Iny discrepan larified with th or structure engin	chitect. imensions to be to be he architect.
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