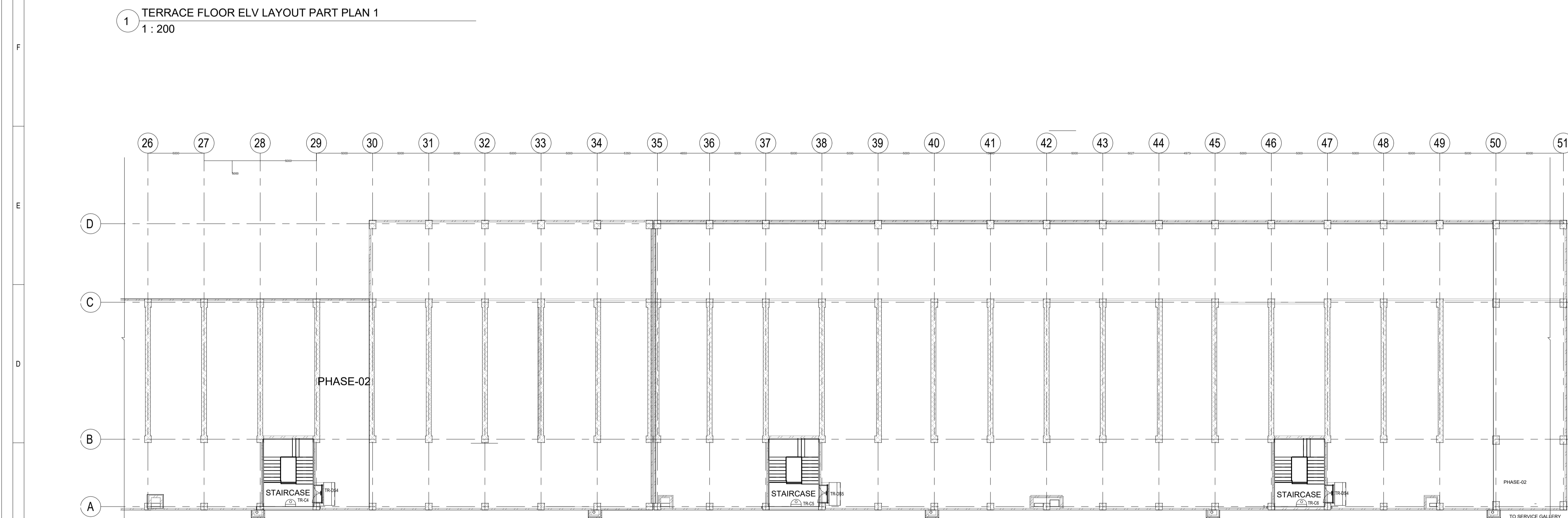


1 TERRACE FLOOR ELV LAYOUT PART PLAN 1
1 : 200



2 TERRACE FLOOR ELV LAYOUT PART PLAN 2
1 : 200

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		DOOME CAMERA	WALL / FALSE CEILING MOUNTED
2		DOOR POSITION SENSOR	ON DOOR

NOTES:

GENERAL

- CONDUITS IN EXPOSED MS CONDUIT TO BE USED.
- OVER FALSE CEILING UNDER FLOOR OR EMBEDDED PVC CONDUITS TO BE USED
- ALL CONDUITS SHOULD BE EQUIPPED WITH A PULL COPES WITH SUITABLE TENSION POWER.
- PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
- ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE DEM SHIP DRAWING.
- THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
- THE EXACT CONDUIT TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
- A CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
- A MINIMUM SEPARATION DISTANCE OF 300MM AND SHOULD BE KEPT PHYSICALLY BETWEEN LIGHT CURRENT CABLES AND MEDIUM VOLTAGE CABLES.
- METALLIC PERFORATED TYPE HOT DIP GALVANIZED CABLE TRAY FOR ICT
- ALL NETWORKING CABLE TO BE CONNECTED IN STR ROOM
- FOR DIGITAL SINKAGE SYSTEM AV SYSTEM & BGM REFER AV SYSTEM LAYOUT.
- REFER STAIRCASE ELECTRICAL LIGHTING LAYOUT FOR ELV EQUIPMENT 'S LOCATIONS IN STAIRCASE
- ACCESS CONTROLLER TO BE PLACED ABOVE THE DOOR. SECURED SIDE INACCESSIBLE FROM PUBLIC CCTV SYSTEM

1. FOR CCTV CAMERA, CAT6A CABLES SHALL BE USED. CABLES SHALL BE DRAWN THROUGH TRAY/20 mm MS CONDUITS UP RESPECTIVE NEARBY STR ROOM.

2. POE EXTENDER IS USED FOR CAMERA LOCATION CROSSING 90m FROM RACKS IN STR ROOM

3. THE CCTV CAMERA VIEW ANGLE TO BE SET AS PER THE COVERAGE LOCATION EX. ENTRANCE DOOR/RECEPTION ETC.

4. THE SHOWN CAMERAS LOCATIONS ARE INDICATIVE. FIELD OF VIEW OF EACH CAMERA MUST BE GENERATED BY OEM/VENDOR FOR JUSTIFYING CHECKS CAMERA TYPE, LENS TYPE ETC.

ACCESS CONTROL SYSTEM

- ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL
- ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM. BY CAT 6A UTP CABLE
- POWER POINT/ SOCKET FOR ALL THE ACCESS CONTROL PANELS. REFER ELECTRICAL POWER LAYOUT
- DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUSION ALARM CONTROLLER IN NEARBY STR ROOM BMS

1. DDC PANELS ARE LOCATED AT 1500MM FROM FFL CENTER OF PANEL.

2. TENTATIVE DIMENSIONS OF THE DDC PANEL IS SHOWN DEPENDS ON OEM.

3. DDC CONTROLLER AND IO MODULE CONFIGURATION AS PER OEM SYSTEM DESIGN.

4. LOCATION FOR THE SENSORS ARE SHOWN IN THE LAYOUT IS INDICATIVE.

5. TYPE OF CABLE TO FIELD CONNECTIONS AS PER BMS CABLE SCHEDULE.

6. THE MAIN INTEGRATION PROTOCOL SHALL BACKNET OVER TOPIP & BACKNET OVER MSTP.

7. REFER BGM LAYOUT FOR BGM SPEAKERS

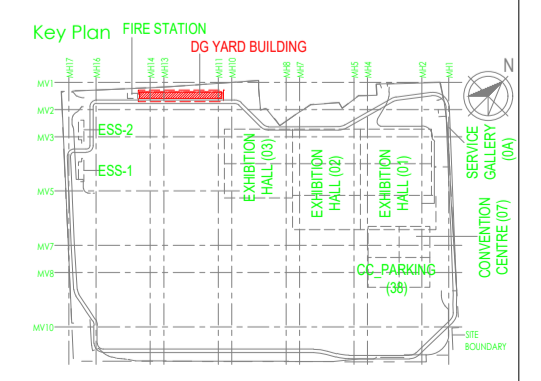
ABBREVIATION

R - MULTI TECHNOLOGY CARD READER
C - CAMERA
MD - MOTION DETECTOR
RN - IT RACK
DDC - DIRECT DIGITAL CONTROLLER
ACP - ACCESS CONTROL PANEL
DPS - DOOR POSITION SENSOR
EPB - EXIT PUSH BUTTON
EDR - EMERGENCY DOOR RELEASE

Sl.no	Drawing description	Dwg number	Rev no
1	DG-BMS Layout-GF-1F	O17203-L-SP-30-IO-4301	R0
2	DG-BMS Layout-TF	O17203-L-SP-30-IO-4302	R0
3	DG Building-GF- ELV System layout-Sheet-01	O17203-L-SP-30-LV-1311	R0
4	DG Building-1F- ELV System layout-Sheet-01	O17203-L-SP-30-LV-1322	R0
5	DG Building-GF & 1F - ELV System layout-Sheet-02	O17203-L-SP-30-LV-1333	R0

REFERENCE DRAWING NO:

DISCIPLINE	DRAWING NO	TITLE
STRUCTURAL	O17203-C-SP-30-NU-0005	DG BUILDING - STRUCTURAL LAYOUT
ARCHITECTURAL	O17203-A-SP-30-WD-0103	DG BUILDING - ARCHITECTURAL LAYOUT
ELECTRICAL EQUIPMENT & CABLE TRAY LAYOUT ELECTRICAL LIGHTING & POWER LAYOUT	O17203-E-SP-30-EE-0009	DG BUILDING-TERRACE- LIGHTING & POWER LAYOUT
	O17203-E-SP-30-EE-0029	DG BUILDING-TERRACE FLOOR - ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT SHEET-1
FPS	O17203-E-SP-30-EE-0030	DG BUILDING-TERRACE FLOOR - ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT SHEET-2
	O17203-F-SP-30-FA-0003	DG - LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM, PORTABLE FIRST AID FIRE EXTINGUISHERS AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC	O17203-V-SP-30-VS-002	DG-DG BUILDING ELECTRICAL EQUIPMENT ROOM VENTILATION & AIRCONDITIONING LAYOUT
PHE	O17203-U-SP-30-IP-0005	DG BUILDING OVER HEAD TANK CONNECTION DETAILS



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Revisions

ARCHITECTURE	PPING	FPS
STRUCTURAL	PPING	
ELECTRICAL	PHE	
ELV SYSTEM	GIS	
HVAC	GEO/TECH.	

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JOB No : O17203

Project Name

DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status

GOOD FOR CONSTRUCTION (GFC)

Drawing No L 30 **Rev.No** R0

Scale As indicated **Sheet Size** A1

Title :

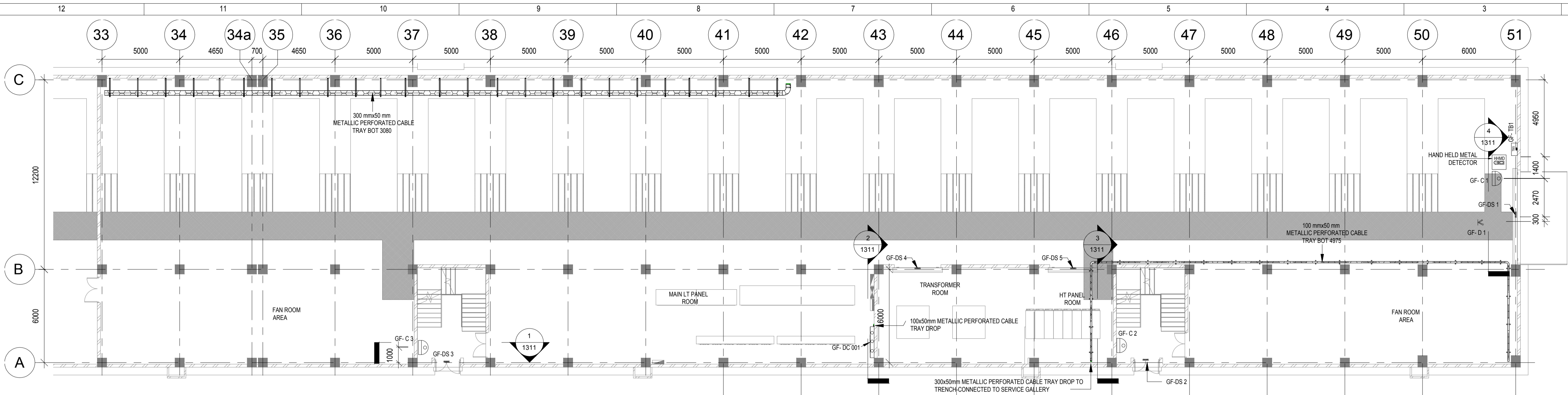
DG BUILDING-TERRACE ELV SYSTEM LAYOUT

O17203-L-SP-30-LV-1211

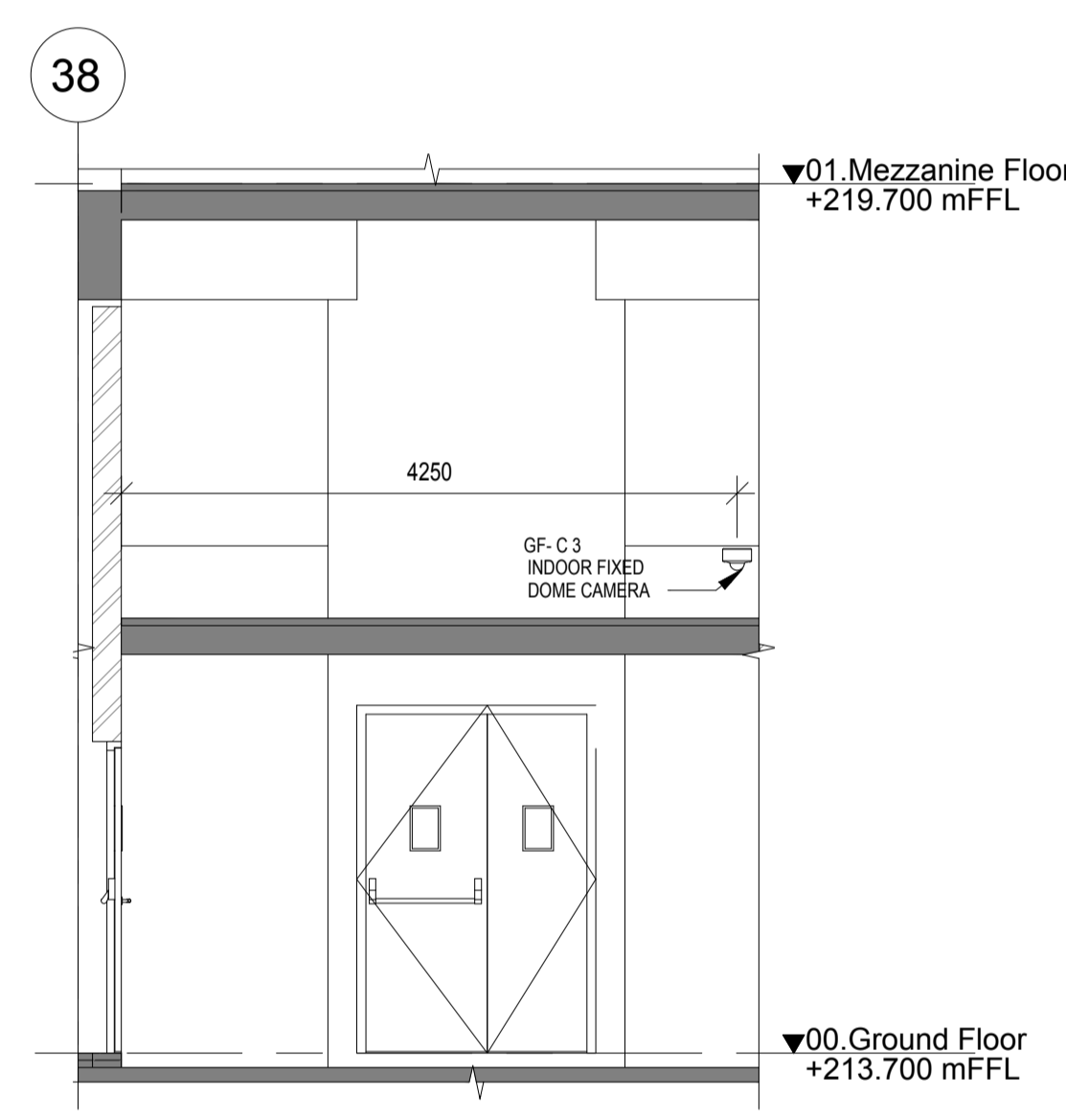
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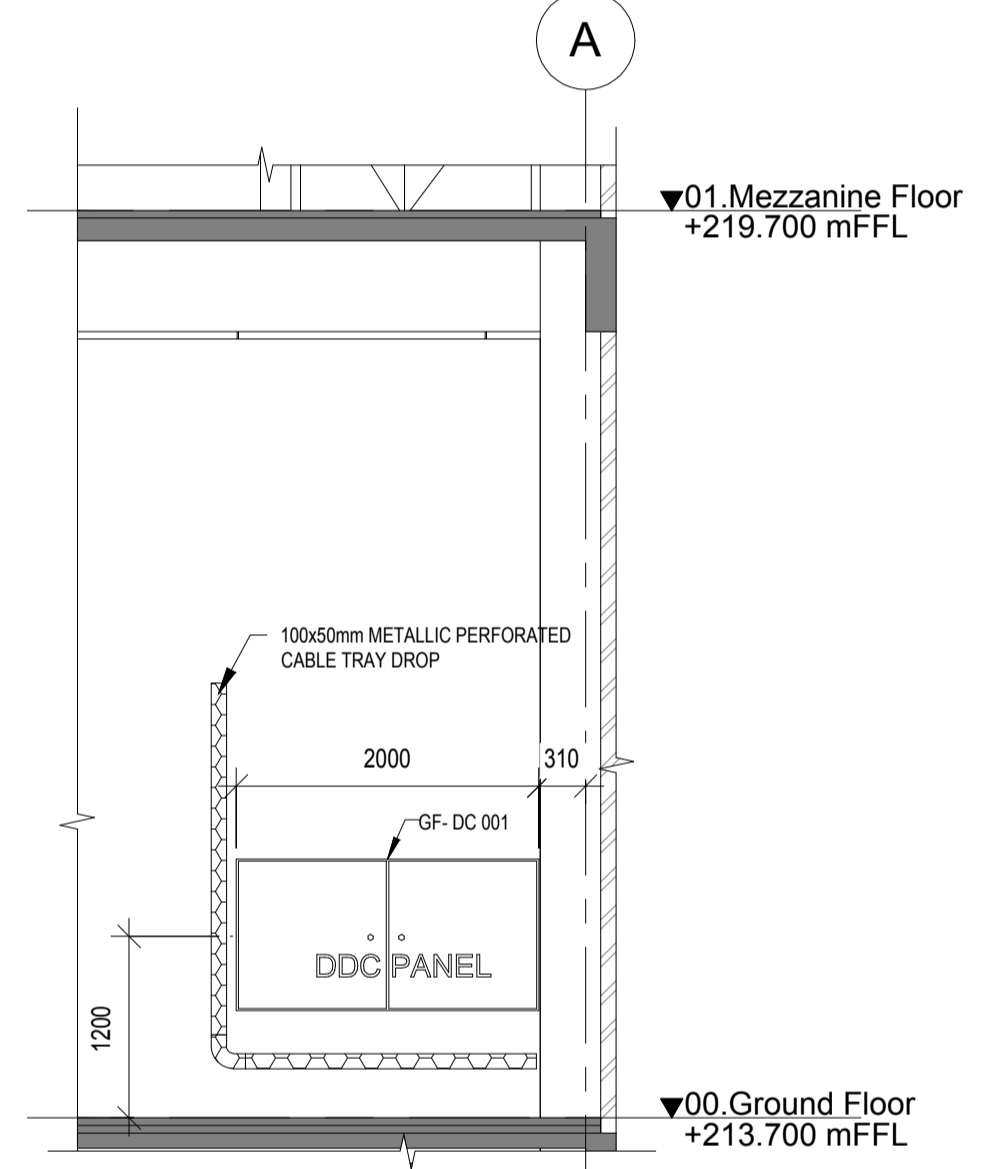
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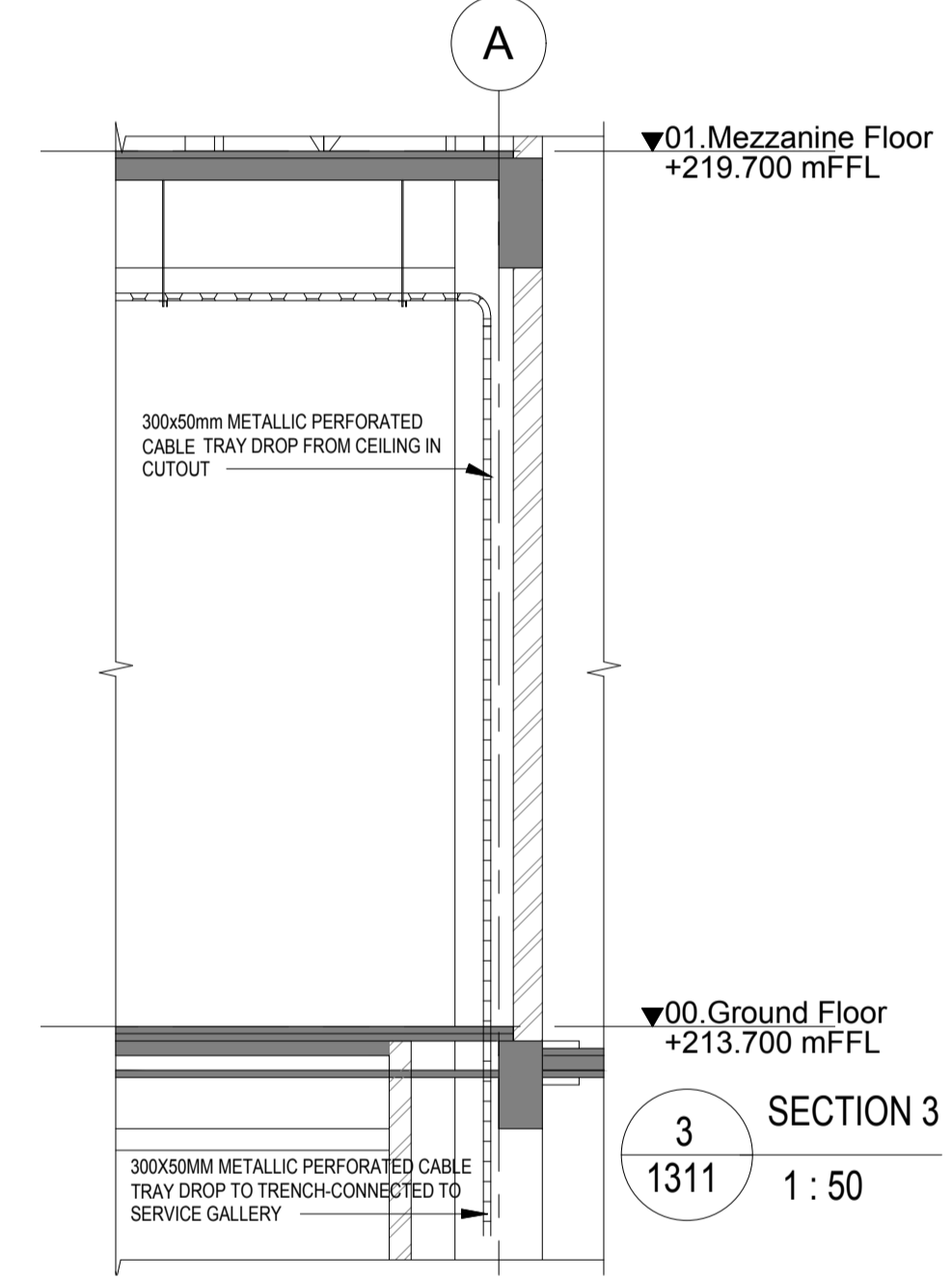
GROUND FLOOR ELV LAYOUT 1
1311 1 : 150



SECTION 1
1311 1 : 50



SECTION 2
1311 1 : 50



SECTION 3
1311 1 : 50

NOTES:

- ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750mm FROM FFL UNLESS OTHERWISE SPECIFIED.
- SOCKETS IN PLANT ROOMS TO BE MOUNTED AT A HEIGHT OF 900mm FROM FFL.
- FOR ALL OTHER TELEPHONE AND DATA SOCKETS, THE LEVEL SHALL BE MAINTAINED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
- CONDUITS WHEN EXPOSED MS CONDUITS TO BE USED.
- OVER FALSE CEILING UNDERFLOOR OR EMBEDDED PVC CONDUITS TO BE USED.
- SUSPENDED CONDUIT TO BE USED IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
- SUSPENDED MS CONDUITS COULD BE USED IN FALSE CEILING BEAM AREAS AS PER REQUIREMENT.
- PAIR 23AWG CAT6A UTP CABLE TO BE USED TO CONNECT R44 DATA OUTLET SOCKETS TO JACK PANEL.
- WHENEVER POWER AND LV CABLES ARE RUNNING IN PARALLEL, THEY SHALL BE SEPARATED BY A DISTANCE OF MINIMUM 300MM.
- METALLIC PERFORATED TYPE HOT DIP GALVANIZED CABLE TRAY FOR ICT.
- METALLIC PERFORATED TYPE HOT DIP GALVANIZED CABLE TRAY FOR ICT.

BMS NOTE: THE SCADA SYSTEM CONTROL AND MONITORS THE FOLLOWING POINTS FOR MEDIUM VOLTAGE SWITCHGEARS:

- SWITCH DISCONNECTOR STATUS
- EARTHING SWITCH DISCONNECTOR STATUS
- CIRCUIT BREAKER STATUS
- CIRCUIT BREAKER TRIP STATUS
- TRANSFORMER TEMPERATURE
- MEDIUM VOLTAGE METERING
- VOLTAGE PRESENCE
- MODBUS PORT

THE SCADA SYSTEM FURTHER INTEGRATED WITH BMS FOR MONITORING IN OCCMOCC OVER NETWORK.

CCTV CAMERA

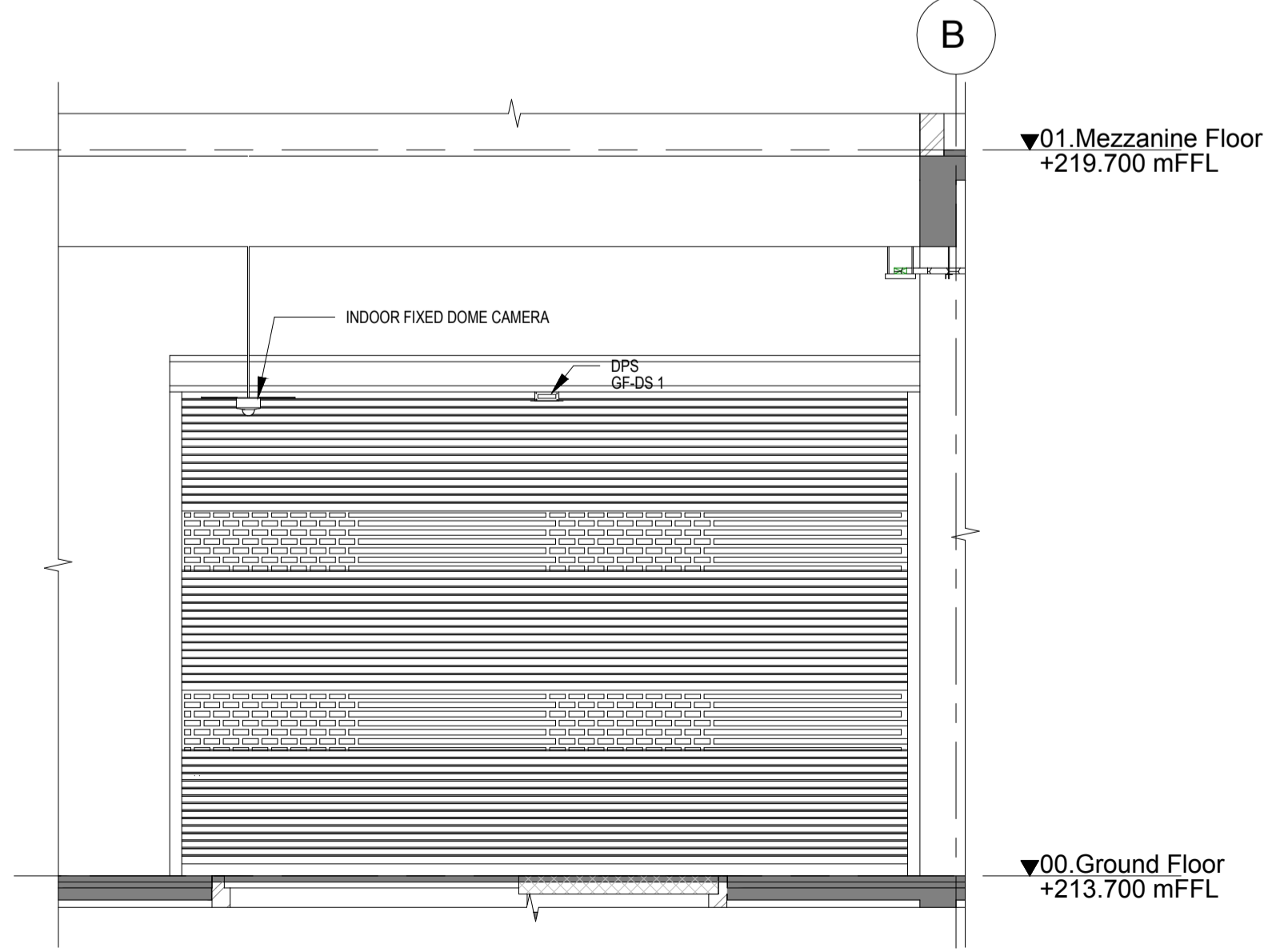
- POE CCTV CAMERA CAT6A CABLES SHALL BE USED. CABLES SHALL BE DRAWN THROUGH TRAY 20MM MSPVC CONDUITS OF RESPECTIVE NEARBY STR ROOM.
- POE EXTENDER IS USED FOR CAMERA LOCATION CROSSING 90M FROM RACKS IN STR ROOM.
- THE CCTV CAMERA VIEW ANGLE TO BE SET AS PER THE COVERAGE LOCATION EX ENTRANCE, DOOR, RECEPTION ETC..
- THE SHOWN CAMERAS LOCATION ARE INDICATIVE FIELD OF VIEW OF EACH CAMERA MUST BE GENERATED BY OEM/VENDOR FOR JUSTIFYING CHOSEN CAMERA TYPE, LENS TYPE ETC..

DAS

- THE DAS SYSTEM FOR MOBILE CARRIERS WILL BE DONE AFTER SITE SURVEY BY SPECIALIST ONCE STRUCTURE IS READY AND EPCC WILL ENSURE THE DAS COVERAGE.

REFERENCE DRAWINGS:

ARCHITECTURAL DRAWING:	
DWG NO	O1703-A-SP-30-WD-0101
ELECTRICAL DRAWING:	
O1703-E-SP-30-EE-0001	
HVAC DRAWING:	
O17203-V-SP-30-CH-0001	
PHE DRAWING:	
O17203-U-SP-30-1P-0004	
O17203-U-SP-30-1P-0005	
FAS DRAWING:	
O17203-F-SP-30-FA-0003	



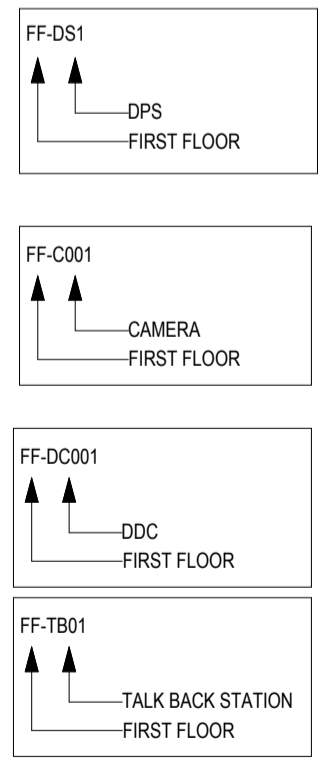
SECTION 4
1311 1 : 50

LEGEND:

SL.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1	[Symbol]	DDC PANEL	1200mm COP
2	[Symbol]	150mm(Wx50mm(H)) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANISED SHEETS
3	[Symbol]	100mm(Wx50mm(H)) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANISED SHEETS
4	[Symbol]	DPS	ON DOOR
5	[Symbol]	INDOOR FIXED DOME CAMERA	2400mm
6	[Symbol]	MOTION DETECTOR	CEILING MOUNT / SUSPENDED
7	[Symbol]	HAND HELD METAL DETECTOR	-
8	[Symbol]	TALK BACK STATION	-

DATA & VOICE SOCKETS FACE PLATE DETAIL:

SYMBOL	DUAL	BLANK
[Symbol]	1	1
[Symbol]	1	1
[Symbol]	1	-



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JOB No : O17203

Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status
GOOD FOR CONSTRUCTION(GFC)

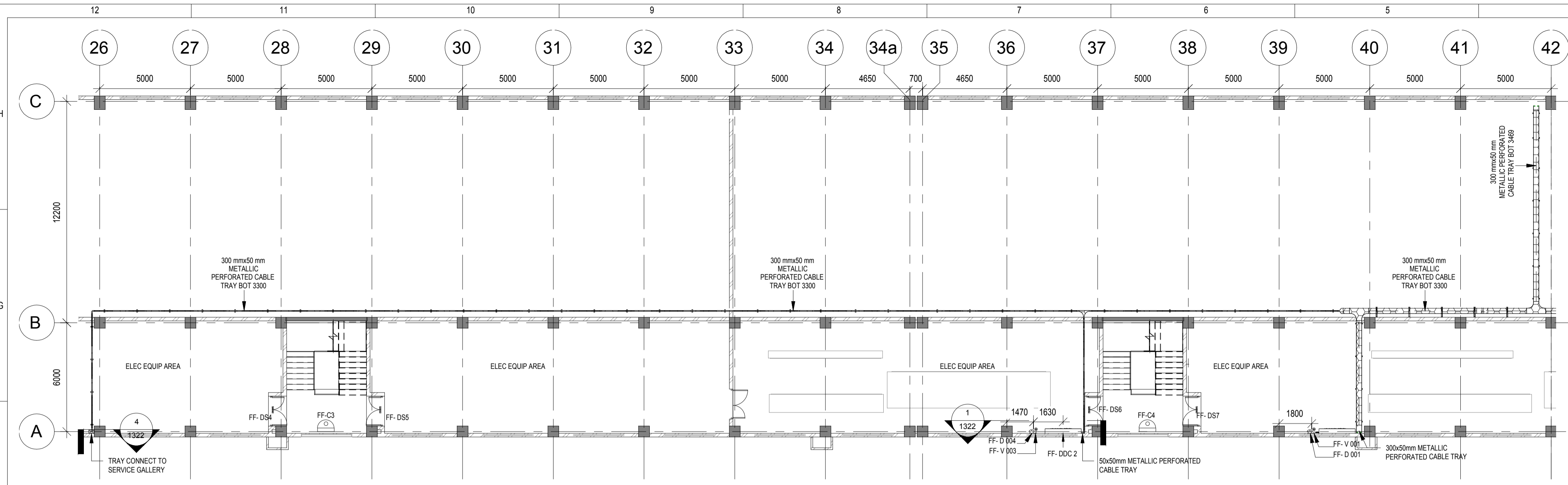
Drawing No L 30 1311 **Rev. No** R0

Title :
DG Building-GF- ELV System layout
Sheet 01

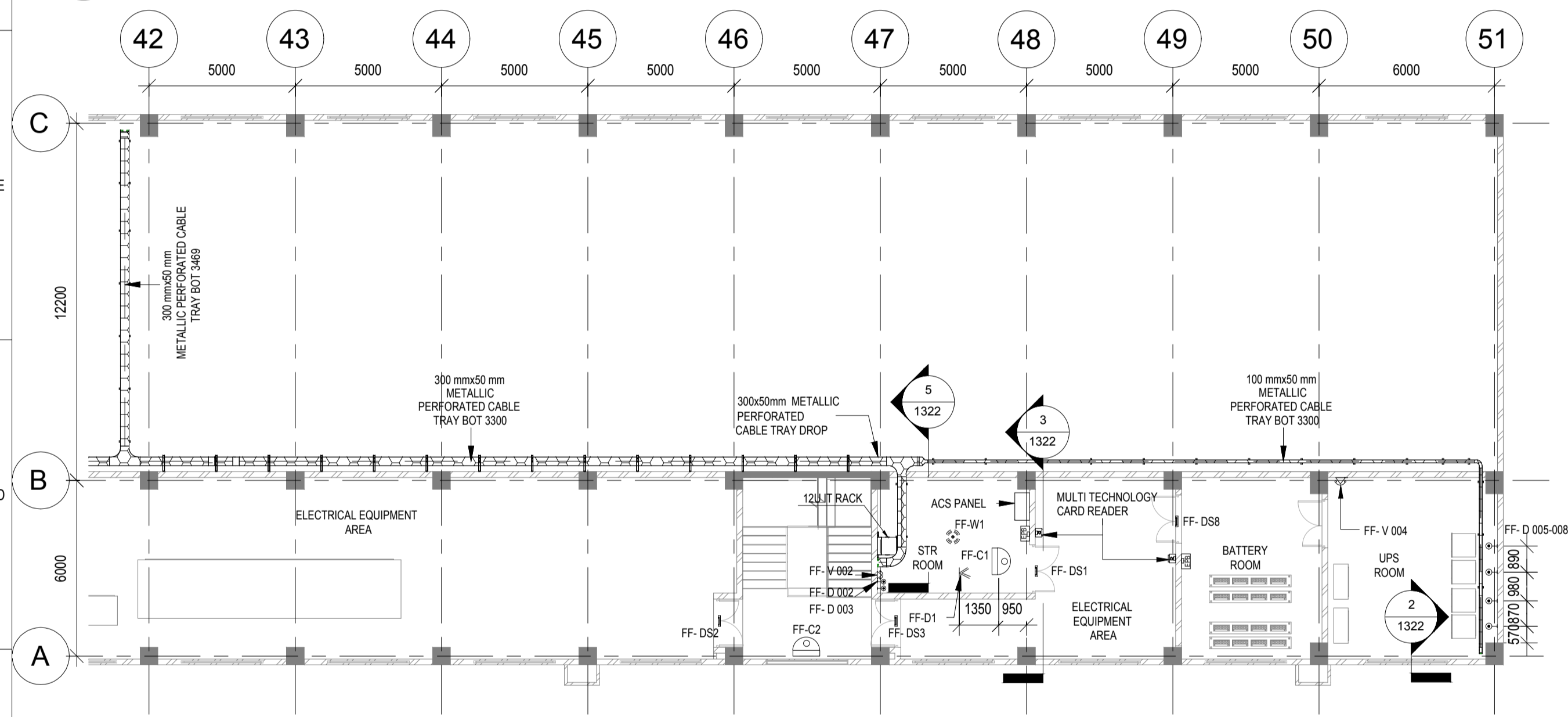
EDRC DWG No : O17203 - L - SP - 30 - LV - 1311 **Scale** As indicated **Sheet Size** A1

O17203 - L - SP - 30 - LV - 1311 (DG Building-GF- ELV System layout)

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B FIRST FLOOR ELV LAYOUT 1
1322 1:150



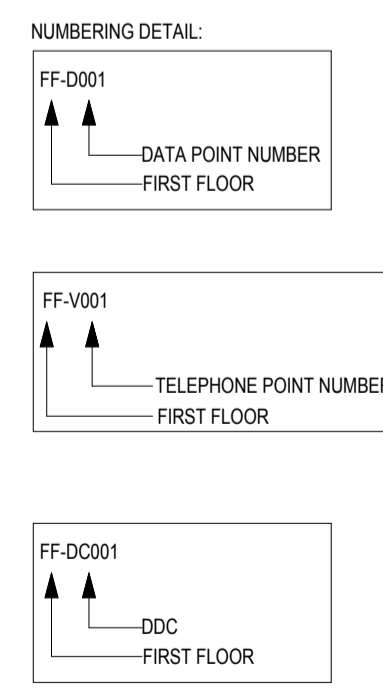
A FIRST FLOOR ELV LAYOUT 2
1322 1:150

LEGEND:

SL.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1	[Symbol]	DATA SOCKET	900mm
2	[Symbol]	TELEPHONE SOCKET	900mm
3	[Symbol]	12 U IT RACK	2000mm COP
4	[Symbol]	DDC PANEL	1200mm COP
5	[Symbol]	300mm(W)x50mm(H) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANISED SHEETS
6	[Symbol]	150mm(W)x50mm(H) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANISED SHEETS
7	[Symbol]	50mm(W)x50mm(H) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANISED SHEETS
8	[Symbol]	DPS	ON DOOR
9	[Symbol]	EXIT PUSH BUTTON	1000mm
10	[Symbol]	MULTI TECHNOLOGY CARD READER	1000mm
11	[Symbol]	MOTION DETECTOR	CEILING MOUNT / SUSPENDED
12	[Symbol]	INDOOR FIXED DOME CAMERA	2400mm
13	[Symbol]	ACS PANEL	1200mm
14	[Symbol]	WIRELESS ACCESS POINT	SURFACE MOUNTED

DATA & VOICE SOCKETS FACE PLATE DETAIL:

SYMBOL	DUAL	BLANK
[Symbol]	1	1
[Symbol]	1	1
[Symbol]	1	-



NOTES:

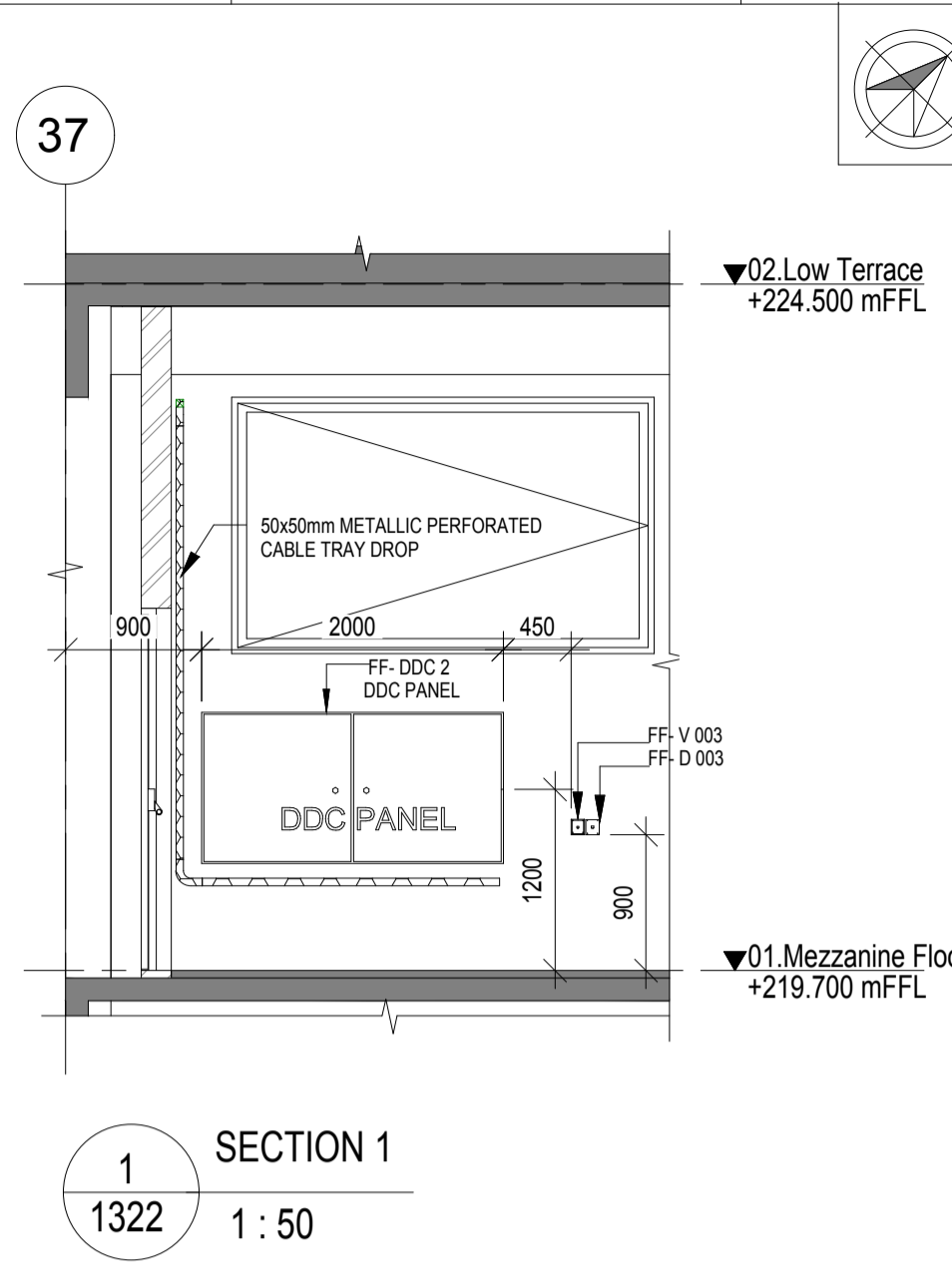
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- SUSPENDED CONDUIT TO BE USED IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
- SUSPENDED MS CONDUITS COULD BE USED IN FALSE CEILING BEAM AREAS AS PER REQUIREMENT.
- 4 PAIR 23AWG CAT6A UTP CABLE TO BE USED TO CONNECT RJ45 DATA OUTLET SOCKETS TO JACK PANEL.
- WHENEVER POWER AND LV CABLES ARE RUNNING IN PARALLEL, THEY SHALL BE SEPARATED BY A DISTANCE OF MINIMUM 300MM.
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- THE SCADA SYSTEM CONTROL AND MONITORS THE FOLLOWING POINTS FOR MEDIUM VOLTAGE SWITCHGEARS.
 - SWITCH DISCONNECTOR STATUS
 - EARTHING SWITCH DISCONNECTOR STATUS
 - CIRCUIT BREAKER STATUS
 - CIRCUIT BREAKER TRIP STATUS
 - TRANSFORMER TEMPERATURE
 - MEDIUM VOLTAGE METERING
 - VOLTAGE PRESENCE
 - MODBUS PORT

CCTV CAMERA

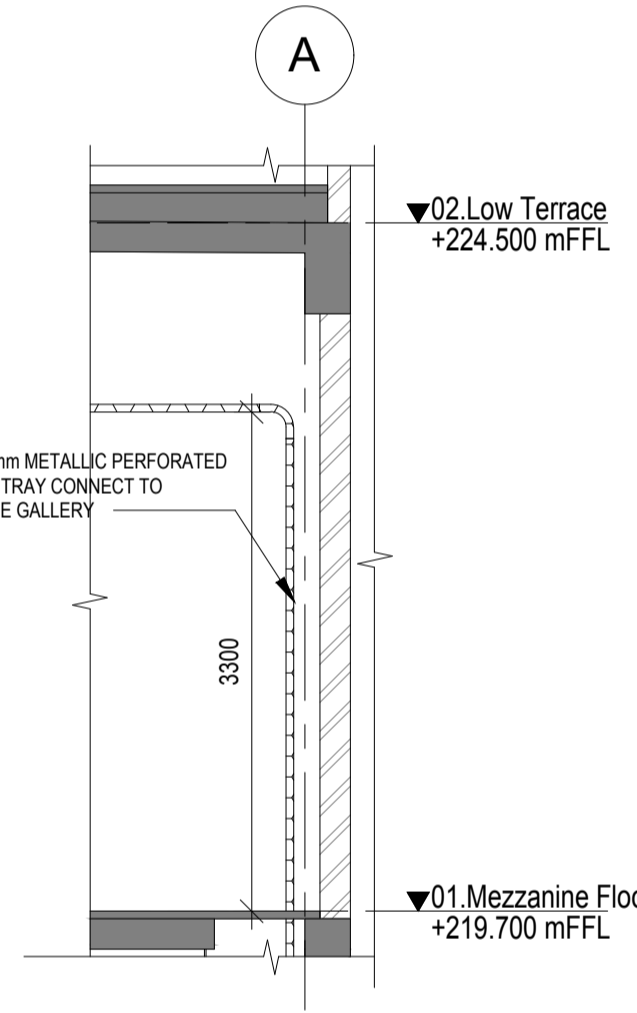
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DAS

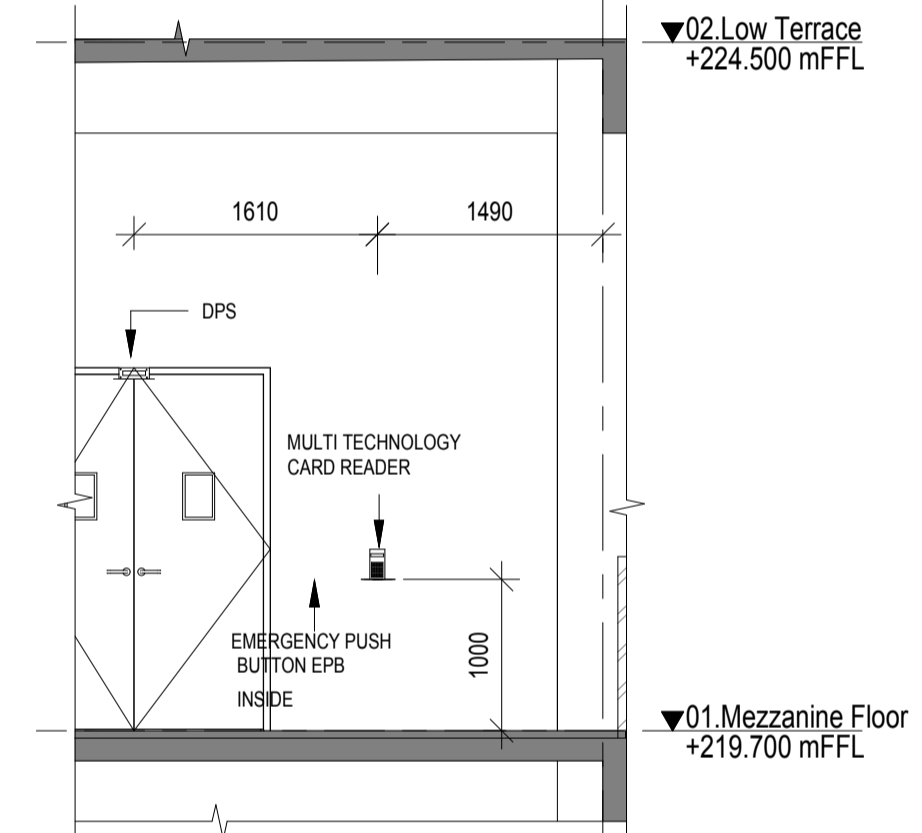
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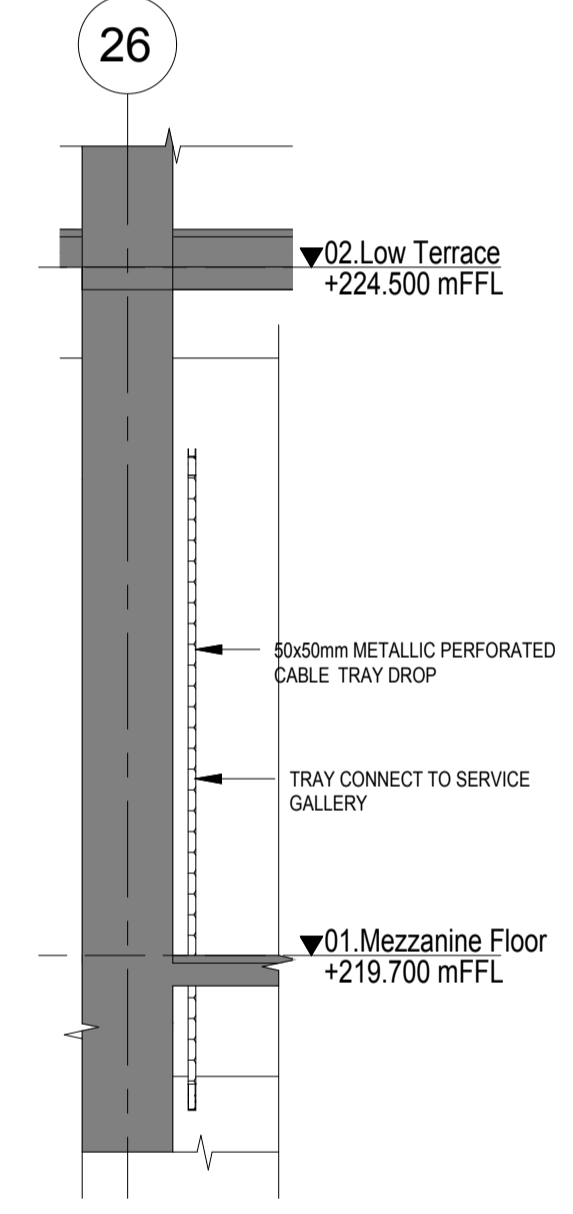
1 SECTION 1
1322 1:50



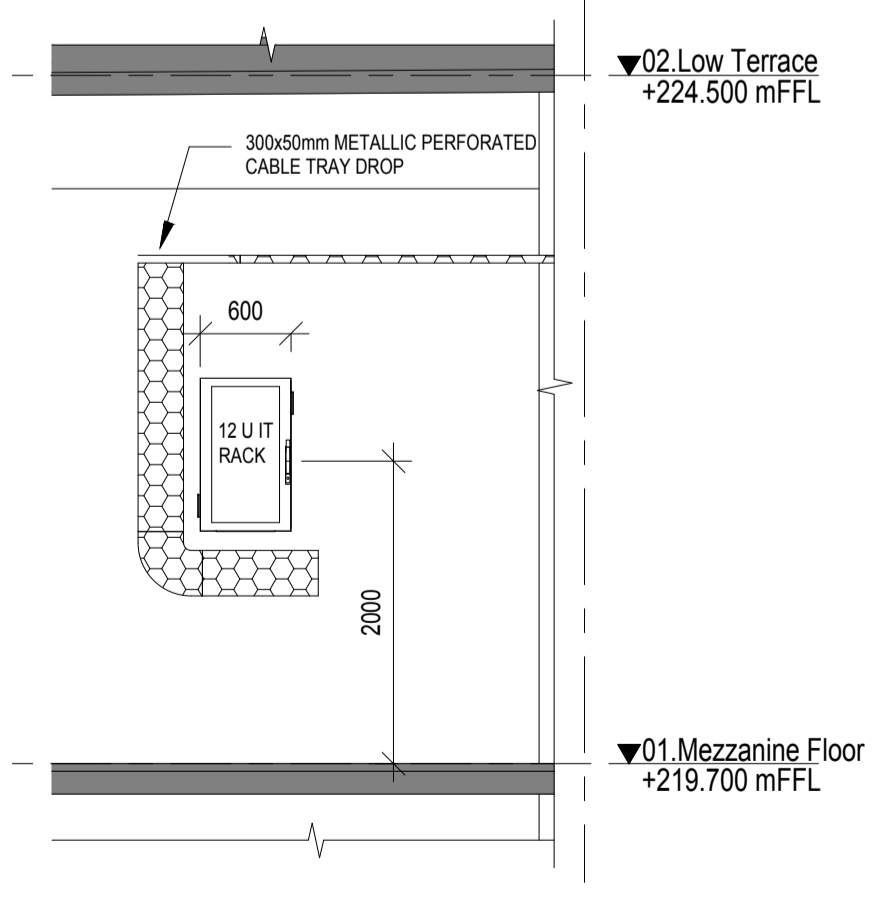
2 SECTION 2
1322 1:50



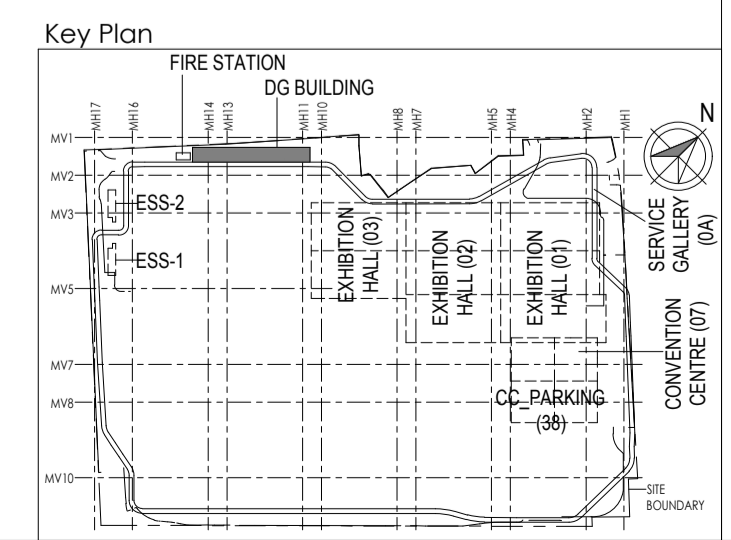
3 SECTION 3
1322 1:50



4 SECTION 4
1322 1:50



5 SECTION 5
1322 1:50



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R0	ISSUED AS GOOD FOR CONSTRUCTION	3/12/18	SP	EM	MSK	GHR

Revisions

ARCHITECTURE	MEP
ISS	---
PIPING	---
PHE	---
GIS	---
GEOTECH.	---

Checked by: SIGN DATE CHECKED BY: SIGN DATE

EPC Contractor
L&T Construction Buildings & Factories

JOB No : O17203

Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status
GOOD FOR CONSTRUCTION(GFC)

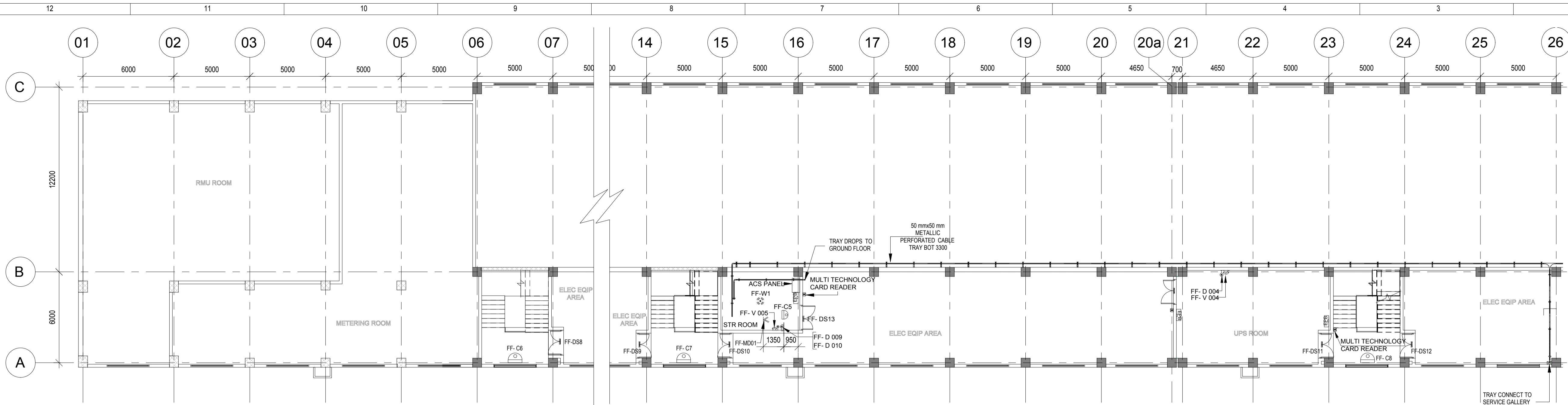
Drawing No L 30 **1322** **Rev. No** R0

Title :
DG Building-1F- ELV System layout
Sheet 01

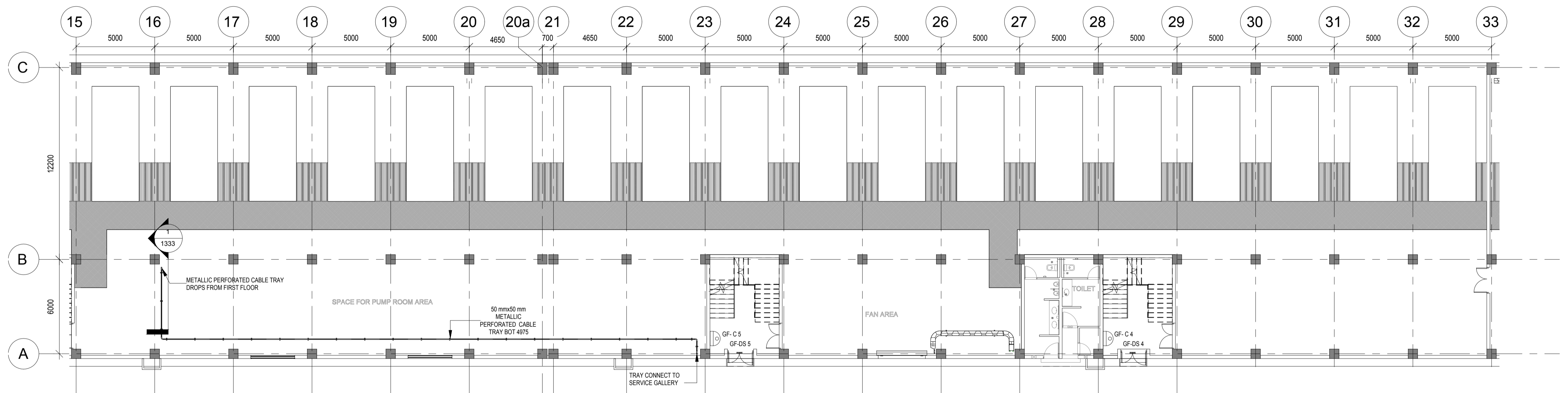
EDRC DWG No : O17203-L-SP-30-LV-1322 **Scale** As indicated **Sheet Size** A1

O17203-L-SP-30-LV-1322 (DG Building-1F- ELV System layout)

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1
1333
1 : 150
FIRST FLOOR ELV LAYOUT 1 - SHEET 02

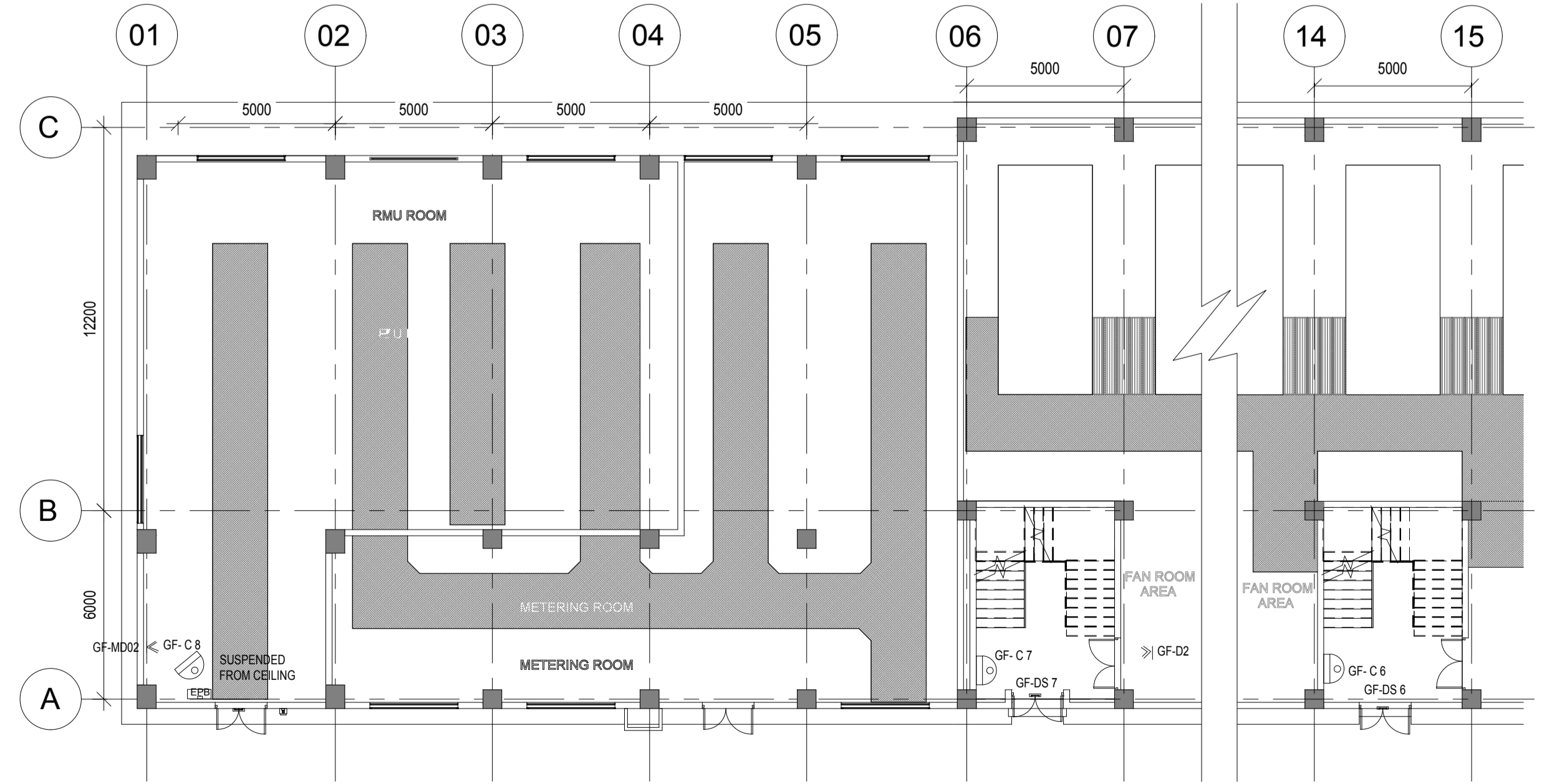
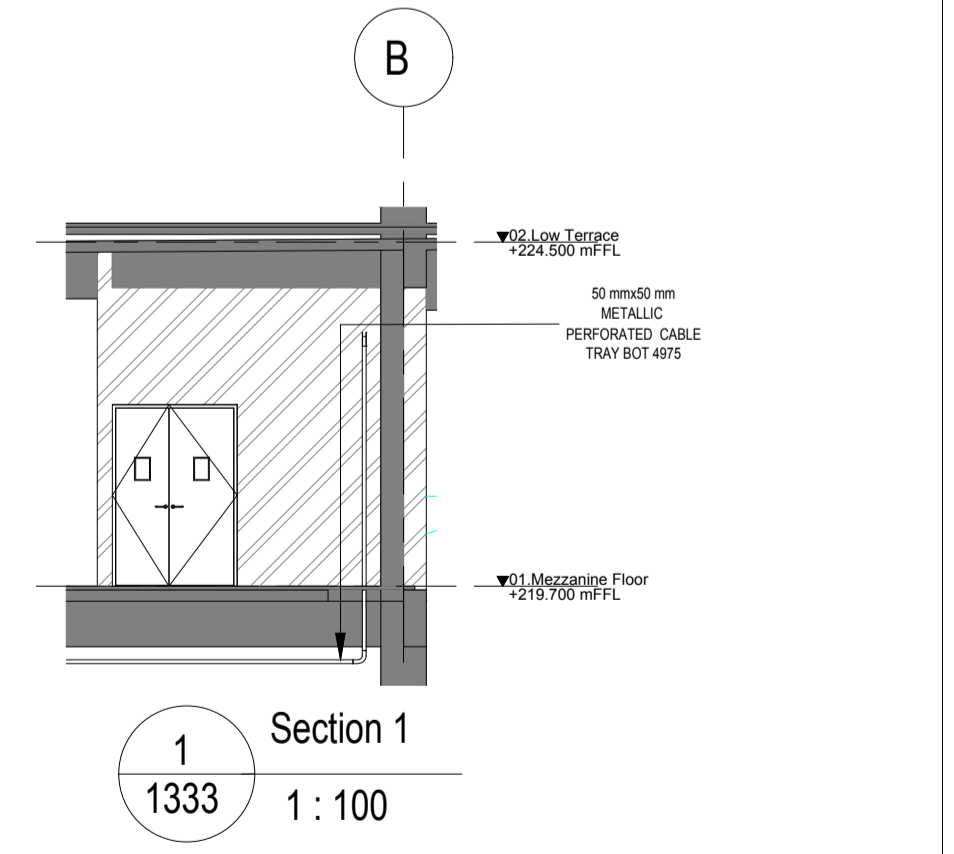
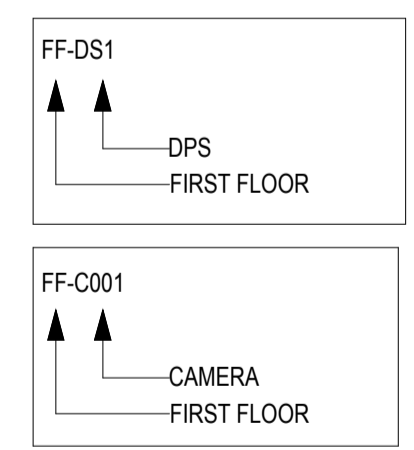


2
1333
1 : 150
GROUND FLOOR ELV LAYOUT SHEET 02 (PART-A)

NOTES:
1. MEP DRAWING & PEDESTALS FOR FUTURE DG'S ARE INCORPORATED IN THE DRAWING. CONTRACTOR SHALL EXECUTE HIS WORK AS PER CONTRACT SCOPE.

LEGEND:

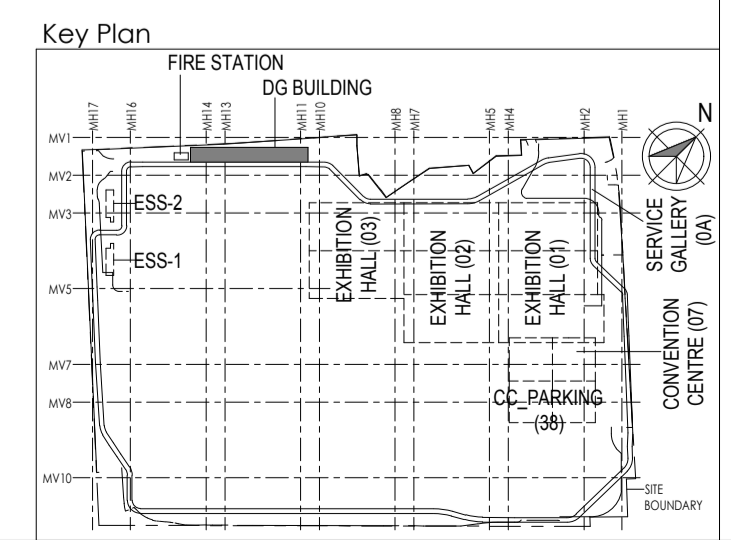
SL.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		300mm(W)x50mm(H) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANIZED SHEETS
2		50mm(W)x60mm(H) METALLIC PERFORATED CABLE TRAY	MADE OF HOT DIP GALVANIZED SHEETS
3		DOOR POSITION SENSOR	ON DOOR
4		INDOOR FIXED DOME CAMERA	2400mm ABOVE FFL
5		MOTION DETECTOR	CEILING MOUNT / SUSPENDED
6		MULTI TECHNOLOGY CARD READER	1000mm ABOVE FFL
7		EXIT PUSH BUTTON+ EMERGENCY DOOR RELEASE	1000mm ABOVE FFL
8		WIRELESS ACCESS POINT	SURFACE MOUNTED
9		VOICE & DATA	WALL MOUNTED



3
1333
1 : 150
GROUND FLOOR ELV LAYOUT SHEET 02 (PART-B)

REFERENCE DRAWINGS:

DWG NO	TITLE
O1703-L-SP-30-LV-1311	DG BUILDING - GROUND FLOOR ELV SYSTEM LAYOUT SHEET 01
O1703-L-SP-30-LV-1322	DG BUILDING - FIRST FLOOR ELV SYSTEM LAYOUT SHEET 01



Owner / Employer
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Employer's Engineer
Programme Management Consultant (PMC)
AECOM

Preliminary Engineering Architecture Consultants (PEAC)
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CKR CKR Consulting Engineers Pvt. Ltd.
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Certification

EPC Contractor	
Design Consultant	
Architectural Consultant	
Proof Consultant	
Structural	MEP
	ICT
PEAC	
Issued by:	Employer / Employer's Engineer

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	3/12/18	SP	EM	MSK	GHR

Revisions

REVISION	DESCRIPTION	DATE	BY	CHECKED BY
1	ISSUED AS GOOD FOR CONSTRUCTION	3/12/18	SP	EM

EPC Contractor
L&T Construction Buildings & Factories

JOB No : O17203

Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status
GOOD FOR CONSTRUCTION(GFC)

Drawing No: L 30 1333 R0

Title :
DG Building-GF & 1F- ELV System layout Sheet 02

EDRC DWG No : O17203 - L - SP - 30 - LV - 1333
Scale : As indicated
Sheet Size : A1

O17203 - L - SP - 30 - LV - 1330 (DG Building-GF- ELV System layout)

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