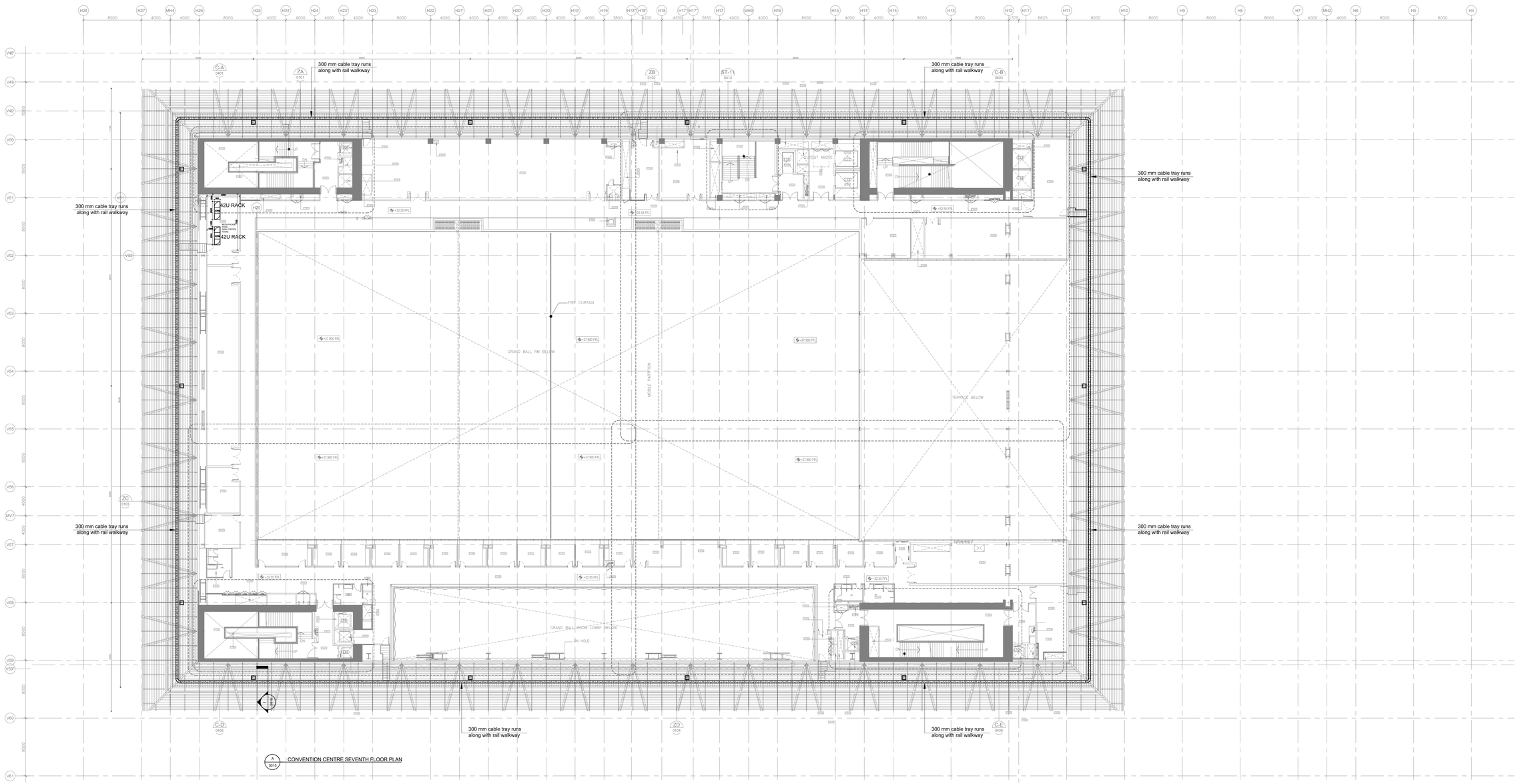
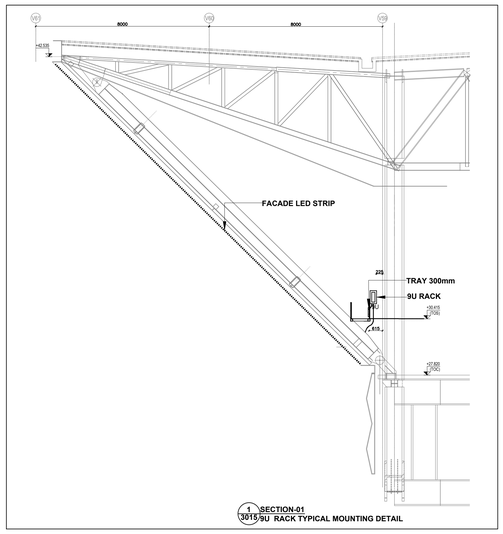
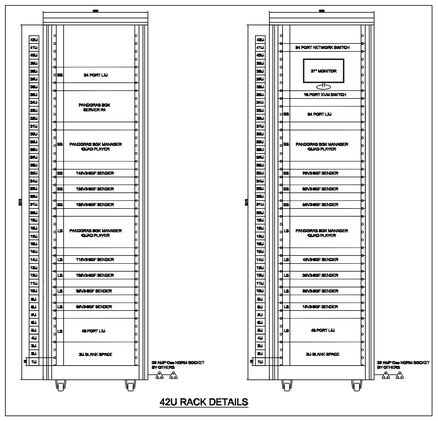
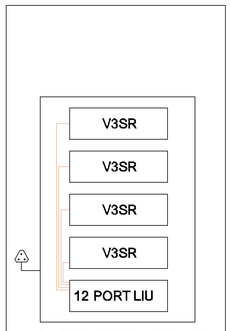




SECTION-01
9U RACK TYPICAL MOUNTING DETAIL



42U RACK DETAILS



9U RACK TYPICAL DETAILS

REFERENCE DRAWING
ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0012 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F8 (+27.90M)
ELV
O17203-L-SP-07-SC-0006 - CONVENTION CENTER - BLOCK SCHEMATIC DIAGRAM FOR LED FACADE
ELECTRICAL
O17203-E-SP-07-LL-0082 - CONVENTION CENTER - SEVENTH FLOOR 7F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0190 - CONVENTION CENTER - SEVENTH FLOOR 7F - POWER LAYOUTS
O17203-E-SP-07-EE-0298 -CONVENTION CENTER -7F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN

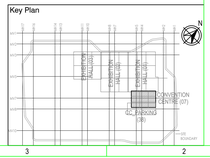
FPS
O17203-F-SP-07-PL-0031 - CONVENTION CENTRE - 7F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER,
AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
O17203-F-SP-07-FA-0032 - CONVENTION CENTRE - 7F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE
FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC
O17203-V-SP-07-AC-0030 - CONVENTION CENTRE SEVENTH FLOOR 7F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
PHE
O17203-U-SP-07-IP-0043 to 0045 - PLUMBING SYSTEM LAYOUT - SEVENTH FLOOR 7F - TOILET WATER SUPPLY LAYOUT

GENERAL NOTE
1.ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
2.EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS.
3.MS CONDUIT USED FOR OPEN APPLICATION.
4.THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.

SL.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TRAY 300mm	-
2		9U RACK	-

ABBREVIATION
1.FC-FIELD CONTROLLER
2.V3SR-RECEIVER

Key Plan



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Revisions

ARCHITECTURE		FPS	
STRUCTURAL		PIPING	
ELECTRICAL		PHE	
ELV SYSTEM		GIS	
HVAC		GEOTECH	
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

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JOB No : O17203

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

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	3015	R0

Title :
CONVENTION CENTRE
LED FACADE LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-AV-3015	1:200	A0

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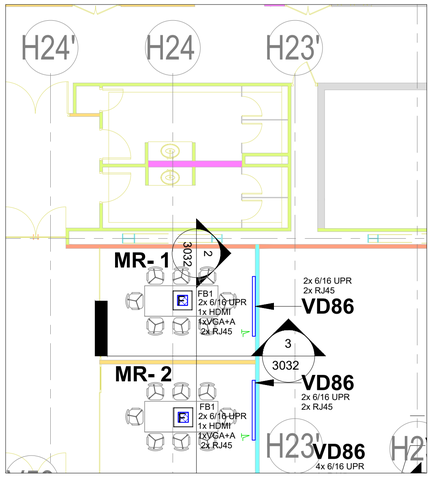
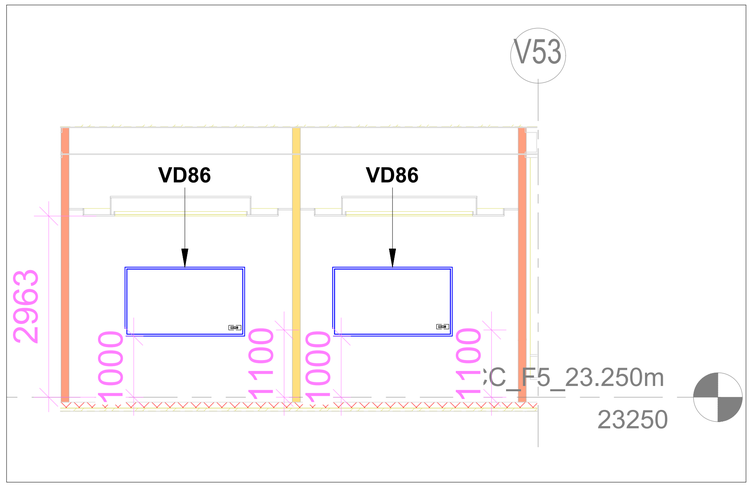
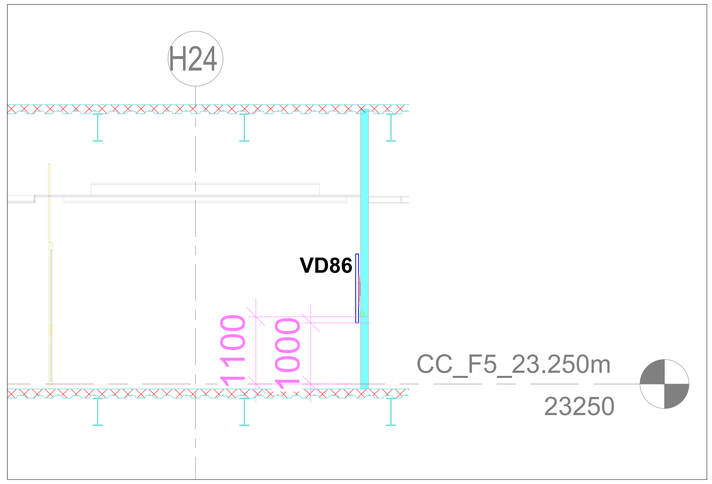


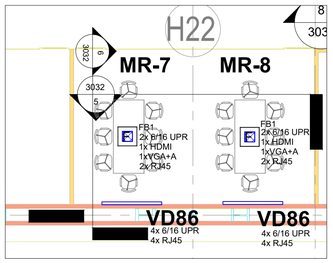
1 MEETING RM.- 1& 2 PLAN(CC_F5_23.250m)
1 : 100



2 MEETING. RM.- 1& 2 WALL ELEVATION
1 : 50



3 MEETING. RM.- 1& 2 TYPICAL SIDE VIEW
1 : 50



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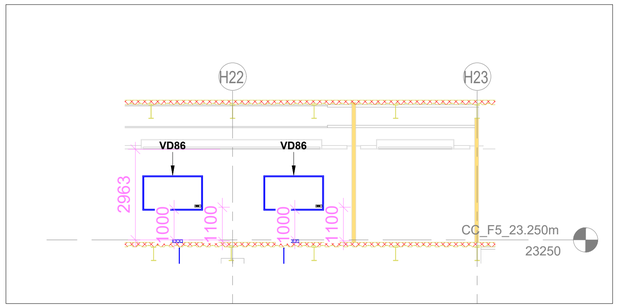

5 MEETING. RM.- 7& 8 WALL ELEVATION
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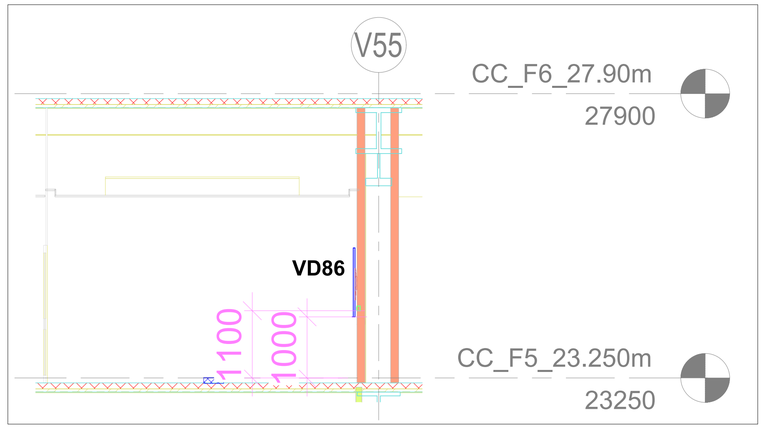

6 MEETING. RM.- 7 & 8 TYPICAL SIDE VIEW
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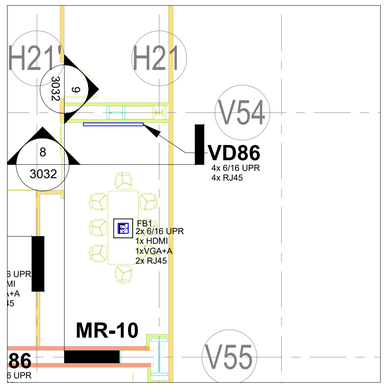

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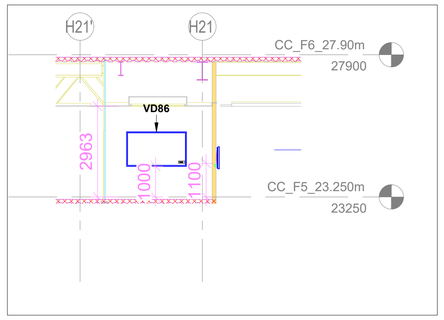

8 MEETING. RM.- 10 WALL ELEVATION
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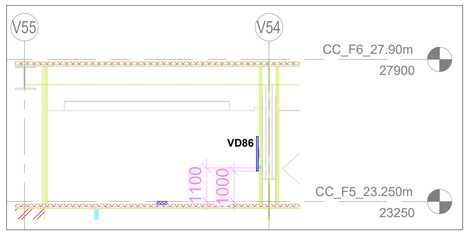
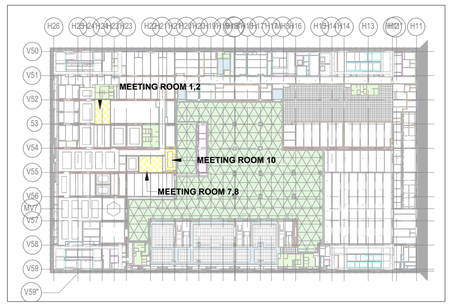


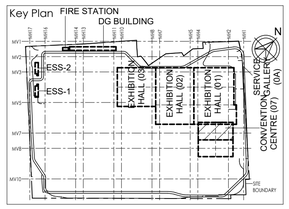
9 MEETING. RM.- 10 SIDE VIEW
1 : 50

AV EQUIPMENT LEGEND					
SR.NO	SYMBOL	DEVICE ID	TENDER SPEC NO	DESCRIPTION	QTY.
1	F	FB1	30	Floor Mount Junction Box (for Cable Cubby)	5
2		VD86	22	80-inch Interactive Display Panel	5

ABBREVIATION LEGEND	
HOFC	HYPERMAC OPTICAL FIBER SOCKET
RJ45	LAN
RJ45P	LAN WITH POE
DAN	DANTE CONNECTIVITY
AES50	AES50 CONNECTIVTY
HDBT	HD BaseT CONNECTIVITY
MMOFC	MULTIMODE OPTICAL FIBER CONNECTIVITY
XLRI	XLR INPUT
XLRO	XLR OUTPUT
6/16 UPR	6/16 AMP POWER MULTI-REGION SOCKET
HW	HARDWIRED TO POWER
VNET	VNET CONNECTIVITY
HDMI	HDMI 2.0 CONNECTIVITY



KEY PLAN



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STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			GEOTECH.		
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

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L&T Construction
Buildings & Factories

JOB No : O17203

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

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No: L 07 3032 — Rev. No: R0

Title :
CONVENTION CENTRE
AUDIO VISUAL SYSTEM LAYOUT FOR CONVENTION CENTER TYPICAL 8 PAX MEETING ROOM

EDRC DWG No : O17203-L-SP-07-AV-3032
Scale: AS INDICATED
Sheet Size: A1

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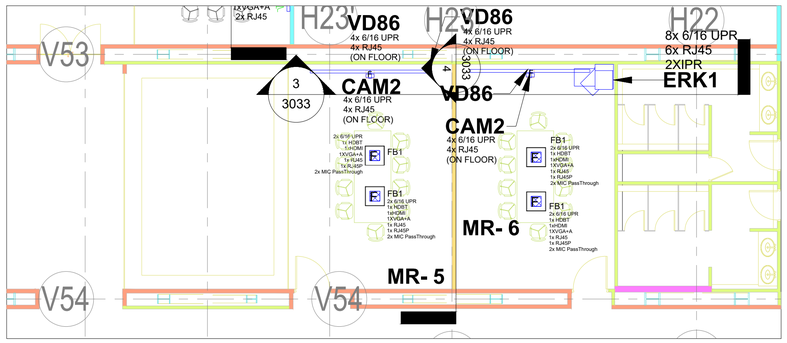
Project Number - A123 (F5-Floor Plan)



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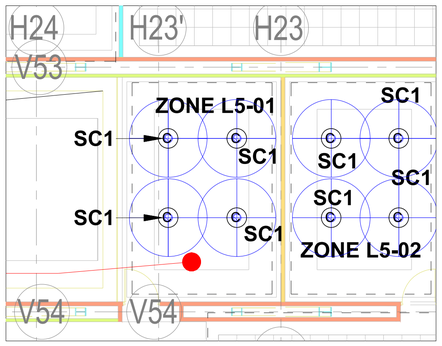

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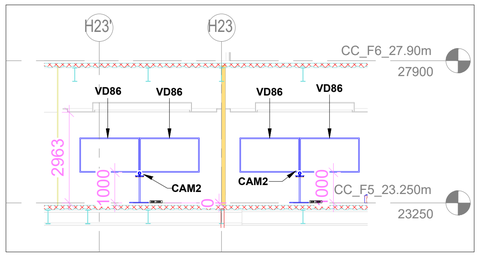
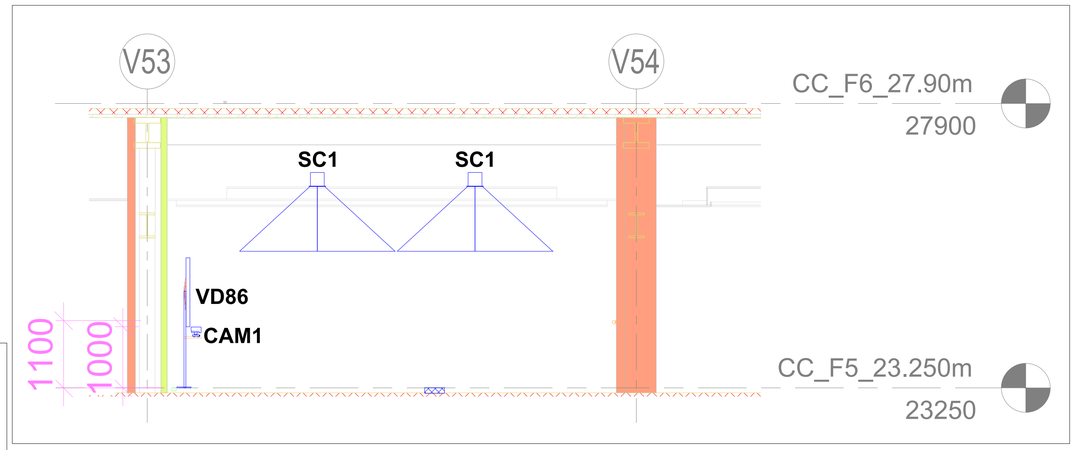
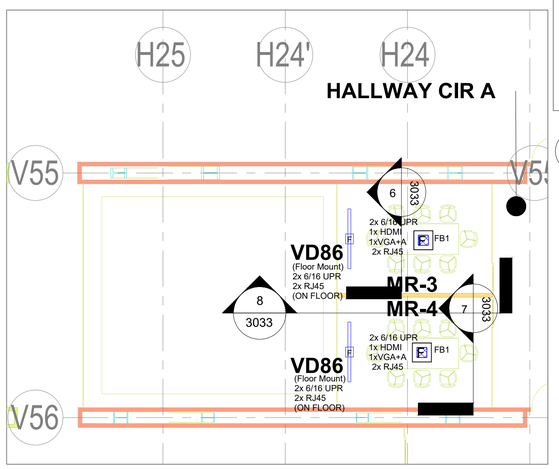


3 MEETING. RM.- 5& 6 WALL ELEVATION
1 : 100



4 MEETING. RM.- 5 & 6 TYPICAL SIDE VIEW
1 : 50



5 MEETING. RM.-3 & 4 PLAN(CC_F5_23.250m)
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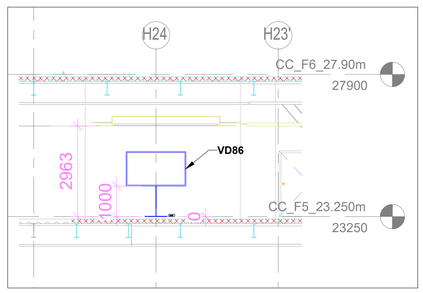

6 MEETING. RM.- 3 WALL ELEVATION
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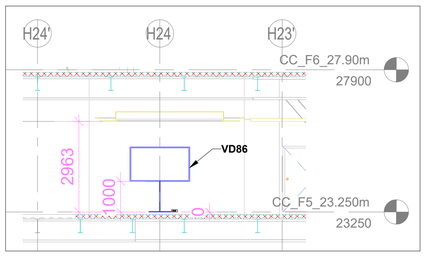

7 MEETING. RM.- 4 WALL ELEVATION
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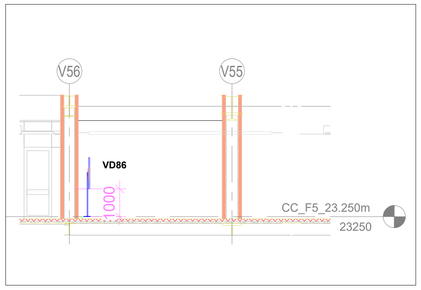


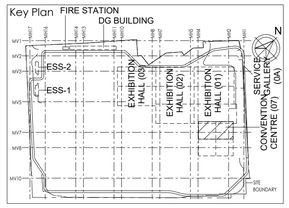
8 MEETING. RM.- 3 & 4 TYPICAL SIDE VIEW
1 : 50

KEY PLAN

ABBREVIATION LEGEND	
HOFC	HYPERMAC OPTICAL FIBER SOCKET
RJ45	LAN
RJ45P	LAN WITH POE
DAN	DANTE CONNECTIVITY
AES50	AES50 CONNECTIVTY
HDBT	HD BaseT CONNECTIVITY
MMOFC	MULTIMODE OPTICAL FIBER CONNECTIVITY
XLRI	XLR INPUT
XLRO	XLR OUTPUT
6/16 UPR	6/16 AMP POWER MULTI-REGION SOCKET
HW	HARDWIRED TO POWER
VNET	VNET CONNECTIVITY
HDMI	HDMI 2.0 CONNECTIVITY

AV EQUIPMENT LEGEND

SR.NO	SYMBOL	DEVICE ID	TENDER SPEC NO	DESCRIPTION	QTY.
1	F	FB1	30	Floor Mount Junction Box (for Cable Cubby)	6
2	CAM	CAM2	32	Dual Full HD Video Conference System	2
3		ERK1		AV Rack	1
4		VD86	22	80-inch Interactive Display Panel	6
5	C	SC1	94	High Profile 5" Ceiling SPK.	8



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ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			GEOTECH.		
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
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.\3033.png
JOB No : O17203

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

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	3033	R0

Title :
CONVENTION CENTRE
AUDIO VISUAL SYSTEM LAYOUT FOR CONVENTION CENTER TYPICAL 8PAX &10 PAX MEETING ROOM

EDRC DWG No : O17203-L-SP-07-AV-3033
Scale: AS INDICATED
Sheet Size: A1

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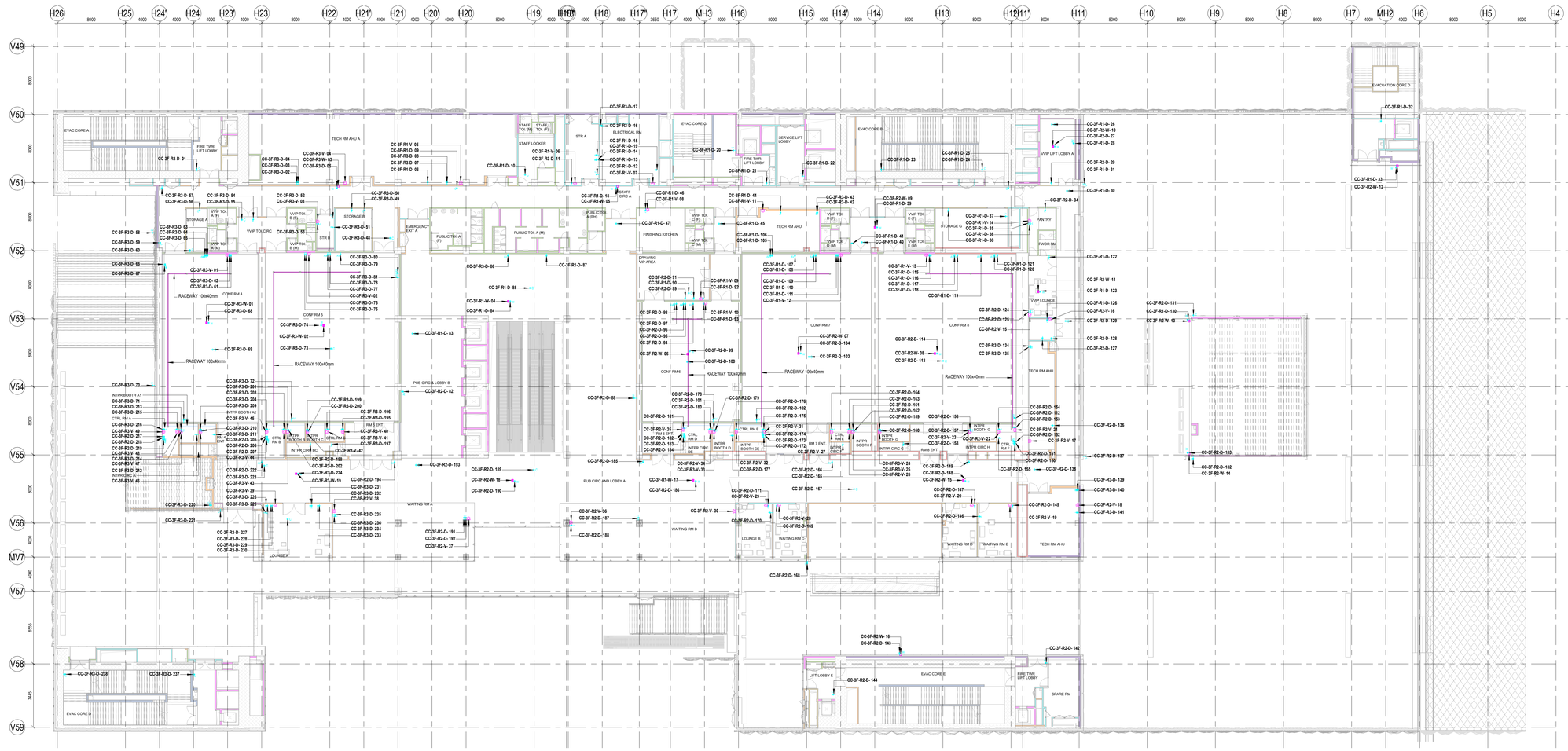
Project Number - A123 (F5-Floor Plan)



1 / 2300 CC_3F_OVER ALL - DATA & VOICE LAYOUT
1 : 200

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2.EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3.PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4 CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5.SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL
6 CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7.PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8.ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9.THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX 50% .

DATA VOICE
1.CAT 6A , 4 PAIR, 23 AWG, U/UTP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL
2.HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3.HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4.ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5.SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 300MM FROM FFL.
6.FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7.FOR CONFERENCE ROOMS - NO. OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONISDERING TOTAL NO OF USERS IN THAT AREA
8.WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM
1. IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2.CAT-6A , 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM
1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY
2.ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4.DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5. DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6.THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM
1.CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1.READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2.CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

EARTHING
1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2.EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEM DRAWINGS.
BGM SPEAKERS SHALL BE SUBMITTED AS PART OF AV SYSTEM DRAWINGS.
THE DAS SYSTEM FOR MOBILE CARRIERS WILL BE DONE AFTER SITE SURVEY BY SPECIALIST ONCE STRUCTURE IS READY. EPCC WILL ENSURE THE DAS COVERAGE

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2		WIFI ACCESS POINT	FALSE CEILING/ WALL MOUNTED
3	TL	DATA SOCKET FOR LAN	750mm FROM FFL
4	TB	DATA SOCKET FOR BMS	1000mm FROM FFL
5	A	DATA SOCKET FOR ACP	FALSE CEILING/ WALL MOUNTED
6	AV	DATA SOCKET FOR AV	AS PER AV EQUIPMENT
7	W	DATA SOCKET FOR WIFI ACCESS POINT	FALSE CEILING/ WALL MOUNTED
8	C	DATA SOCKET FOR CCTV	FALSE CEILING/ WALL MOUNTED
9	WT	DATA SOCKET FOR WIRELSS TRANSMITTER	FALSE CEILING
10		METALLIC RACEWAY (100x40mm)	-

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346

STRUCTURE
O17203-C-SP-07-NU-0008 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F4 (+18.520M)

ELECTRICAL
O17203-E-SP-07-LL-0046 - CONVENTION CENTER - THIRD FLOOR 3F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0154 - CONVENTION CENTER - THIRD FLOOR 3F - POWER LAYOUTS
O17203-E-SP-07-EE-0258 -CONVENTION CENTER -3F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN

FPS
O17203-F-SP-07-PL-0019 - CONVENTION CENTRE - 3F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
017203-F-SP-07-FA-0020 - CONVENTION CENTRE - 3F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES

HVAC
O17203-V-SP-07-AC-0026 - CONVENTION CENTRE THIRD FLOOR 3F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT

PHE
O17203-U-SP-07-IP-0070 to 0073 - PLUMBING SYSTEM LAYOUT - THIRD FLOOR 3F - TOILET WATER SUPPLY LAYOUT

TAGGING LEGENDS

CC 3F R1 D-01
- RJ 45 DATA SOCKET
- RACK NO 1
- THIRD FLOOR
- CONVENTION CENTER

CC 3F R1 V-01
- RJ 45 TELEPHONE SOCKET
- RACK NO 1
- THIRD FLOOR
- CONVENTION CENTER

CC 3F FB-01
- FLAB BARRIER NARROW
- THIRD FLOOR
- CONVENTION CENTER

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AECOM

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idom — Av. Del Monasterio de El Escorial, 4, 28049 Madrid, Spain
CPKUKREJA ARCHITECTS — No.D-1, Ashiwad Building, Green Park, New Delhi, Delhi 110016, India

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Architectural Consultant
ARCOP — Arcop Associates Pvt. Ltd. A-15, Pamposa Enclave , G.K.-I New Delhi, Delhi 110048, India

Structural Proof Consultant
Indian Institute of Technology (IIT) Madras
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MEP Proof Consultant
egis — Egis India Consulting Engineers Pvt. Ltd.
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ICT Proof Consultant
CKR — CKR Consulting Engineers Pvt. Ltd.
F-617, 3rd Floor, Narayana Arcade, Subbaramachetty Road, Nehrukaapa Circle, Basavanagudi, Bengaluru - 560004

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 FOR GFC	21.01.26	BVN	SS	HSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTRAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GS		
HVAC			GEOTECH.		
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
L&T Construction Buildings & Factories

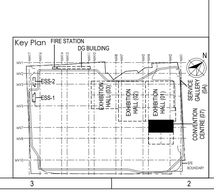
JOB No : O17203

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

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	2300	R0

Key Plan



Title :
CONVENTION CENTER-3F-OVER ALL DATA & VOICE LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-DV-2300	AS INDICATED	A0

O17203 - L - 07 - 2300 [CONVENTION CENTER-3F-OVER ALL DATA & VOICE LAYOUT]
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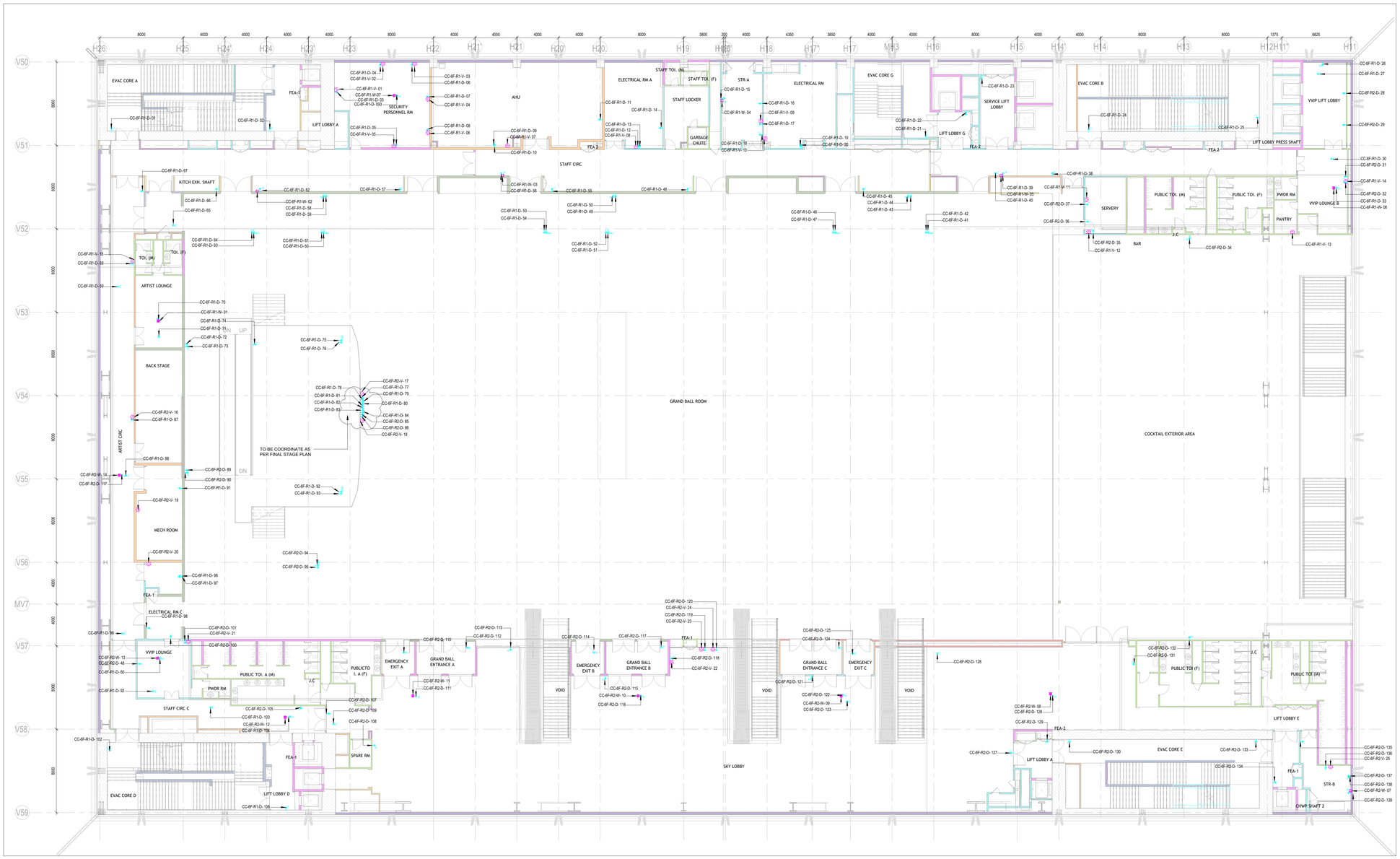

1 / 2600 CC_F6_OVER ALL - DATA & VOICE LAYOUT
1 : 150

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0011 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F7 (+27.90M)
ELECTRICAL
O17203-E-SP-07-LL-0073 - CONVENTION CENTER - SIXTH FLOOR 6F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0181 - CONVENTION CENTER - SIXTH FLOOR 6F - POWER LAYOUTS
O17203-E-SP-07-EE-0287 -CONVENTION CENTER -6F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN
FPS
O17203-F-SP-07-PL-0028 - CONVENTION CENTRE - 6F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
017203-F-SP-07-FA-0029 - CONVENTION CENTRE - 6F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC
O17203-V-SP-07-AC-0029 - CONVENTION CENTRE SIXTH FLOOR 6F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
PHE
O17203-U-SP-07-IP-0082 to 0085 - PLUMBING SYSTEM LAYOUT - SIXTH FLOOR 6F - TOILET WATER SUPPLY LAYOUT

TAGGING LEGENDS

CC 6F R1 D-01 — RJ 45 DATA SOCKET; RACK NO 1; SIXTH FLOOR; CONVENTION CENTER
CC 6F R1 V-01 — RJ 45 TELEPHONE SOCKET; RACK NO 1; SIXTH FLOOR; CONVENTION CENTER
CC 6F FB-01 — FLAB BARRIER NARROW; SIXTH FLOOR; CONVENTION CENTER
CC 6F R2 D-01 — RJ 45 DATA SOCKET; RACK NO 2; SIXTH FLOOR; CONVENTION CENTER
CC 6F R2 V-01 — RJ 45 TELEPHONE SOCKET; RACK NO 1; SIXTH FLOOR; CONVENTION CENTER
CC 6F FB-W -01 — FLAB BARRIER-WIDE; SIXTH FLOOR; CONVENTION CENTER

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2	XL	DATA SOCKET FOR LAN	750mm FROM FFL
3	B	DATA SOCKET FOR BMS	1000mm FROM FFL
4	A	DATA SOCKET FOR ACP	1000mm FROM FFL
5	AV	DATA SOCKET FOR AV SYSTEM	AS PER AV EQUIPMENT
6	W	DATA SOCKET FOR WIFI ACCESS POINT	FALSE CEILING/WALL MOUNTED
7	C	DATA SOCKET FOR CCTV	FALSE CEILING/ WALL
8	WT	DATA SOCKET FOR WIRELESS TRANSMITTER	FALSE CEILING
9		WIFI ACCESS POINT	FALSE CEILING/ WALL

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2.EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3.PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4.CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5.SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6.CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7.PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8.ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9.THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13.PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX 50%.

DATA VOICE
1. CAT 6A , 4 PAIR, 23 AWG, U/UTP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL.
2.HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM.
3.HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4.ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5.SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL.
6.FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION
7.WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM
1.IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED.
2.CAT-6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL.
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM
1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY.
2.ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4.DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5.DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6.THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM
1.CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1. READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2.CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

DIGITAL SIGNAGE SYSTEM / AV SYSTEM DISPLAY
1.DIGITAL SIGNAGE SYSTEM SHALL BE MOUNTED 1200MM FROM FFL
2.POWER POINT/SOCKET FOR DIGITAL SIGNAGE, REFER ELECTRICAL POWER LAYOUT.

EARTHING
1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2.EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEM DRAWINGS.
BGM SPEAKERS SHALL BE SUBMITTED AS PART OF AV SYSTEM DRAWINGS.
THE DAS SYSTEM FOR MOBILE CARRIERS WILL BE DONE AFTER SITE SURVEY BY SPECIALIST ONCE STRUCTURE IS READY. EPCC WILL ENSURE THE DAS COVERAGE

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Government of India

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Employer's Engineer
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AECOM

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CPKUKREJA ARCHITECTS — No.D-1, Ashirwad Building, Green Park, New Delhi, Delhi 110016, India

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EPC Contractor's Representatives
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Engineering Design and Research Center (EDRC)
L&T Construction - Buildings & Factories

Architectural Consultant
ARCOP — Arcop Associates Pvt. Ltd. A-15, Pampose Enclave , G.K.-I New Delhi, Delhi 110048, India

Structural Proof Consultant
Indian Institute of Technology (IIT) Madras
Sardar Patel Rd. Opposite to C.L.R.I, Adyar, Chennai, Tamil Nadu 600036

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Plot No. 66, Sector 32, Institutional Area, Opp. Ismaila Solutions, Gurugram, Haryana 122001

ICT Proof Consultant
CKR — CKR Consulting Engineers Pvt. Ltd.
E-411, 3rd Floor, Nanduna Arcade, Subbaramachetty Road, Nehrulayout Circle, Basavanagudi, Bengaluru - 560004

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 FOR GFC	18.2.20	BVH	SM	MSK	GNR

Revisions

ARCHITECTURE		FPS	
STRUCTURAL		PIPING	
ELECTRICAL		PHE	
ELV SYSTEM		GIS	
HVAC		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 CONVENTIONAL & EXPO CENTRE

SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	2600	R0

Key Plan

Title :
CONVENTION CENTER-6F-OVER ALL DATA & VOICE LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-DV-2600	AS INDICATED	A0

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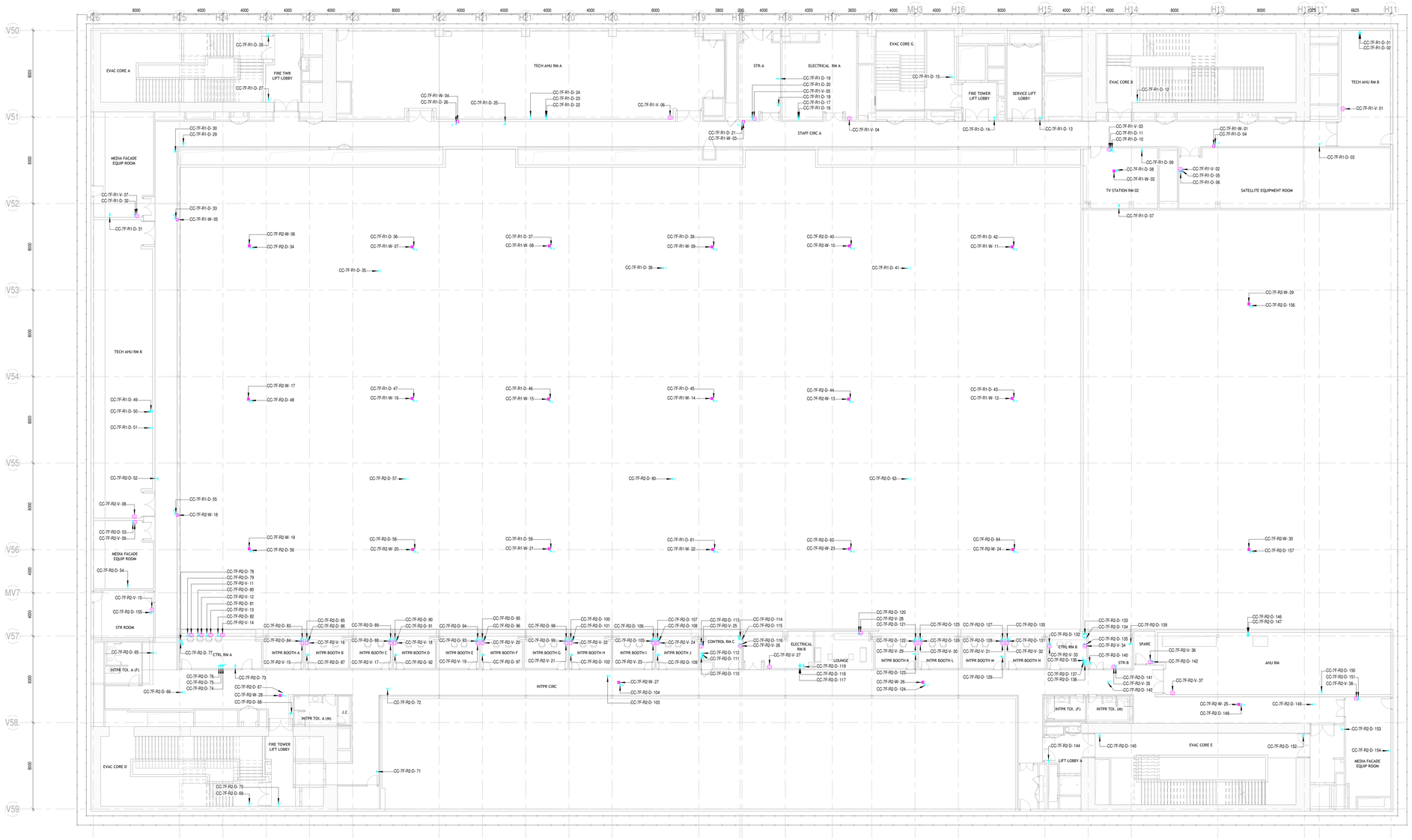
O17203 - L - 07 - 2600 _ (CONVENTION CENTER-6F-OVER ALL DATA & VOICE LAYOUT)



1 / 2700 CC_F7_OVER ALL - OVER ALL ELV DATA & VOICE LAYOUT
1 : 150

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2.EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
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2.HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3.HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4.ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5.SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL
6.FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7. FOR CONFERENCE ROOMS-NO OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONISDERING TOTAL NO OF USERS IN THE ROOM.
8.WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM
1.IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2.CAT 6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM
1.ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY.
2.ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM. BY CAT 6A UTP CABLE.
3.POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS. REFER ELECTRICAL POWER LAYOUT.
4.DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5.DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6.THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM
1.CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1.READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2.CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

EARTHING
1.ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2.EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEM DRAWINGS.
BGM SPEAKERS SHALL BE SUBMITTED AS PART OF AV SYSTEM DRAWINGS.
THE DAS SYSTEM FOR MOBILE CARRIERS WILL BE DONE AFTER SITE SURVEY BY SPECIALIST ONCE STRUCTURE IS READY. EPCC WILL ENSURE THE DAS COVERAGE.

TAGGING LEGENDS

CC 7F R1 D-01
- RJ 45 DATA SOCKET
- RACK NO 1
- SEVENTH FLOOR
- CONVENTION CENTER

CC 7F R1 V-01
- RJ 45 TELEPHONE SOCKET
- RACK NO 1
- SEVENTH FLOOR
- CONVENTION CENTER

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2		WIFI ACCESS POINT	FALSE CEILING/ WALL MOUNTED
3	D	DATA SOCKET FOR LAN	750mm FROM FFL
4	B	DATA SOCKET FOR BMS	1000mm FROM FFL
5	AV	DATA SOCKET FOR AV SYSTEM	AS PER AV EQUIPMENT
6	w	DATA SOCKET FOR WIFI ACCESS POINT	FALSE CEILING/ WALL MOUNTED
7	C	DATA SOCKET FOR CCTV	FALSE CEILING/ WALL MOUNTED
8	A	DATA SOCKET FOR ACP	FALSE CEILING/ WALL MOUNTED
9	WT	DATA SOCKET FOR WIRELSS TRANSMITTER	FALSE CEILING

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203013 46

STRUCTURE
O17203-C-SP-07-NU-0012 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F8 (+37.92M)

ELECTRICAL
O17203-E-SP-07-LL-0082 - CONVENTION CENTER - SEVENTH FLOOR 7F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0190 - CONVENTION CENTER - SEVENTH FLOOR 7F - POWER LAYOUTS
O17203-E-SP-07-EE-0098 -CONVENTION CENTER -7F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN
EPS
O17203-F-SP-07-PL-0031 - CONVENTION CENTRE - 7F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
017203-F-SP-07-FA-0032 - CONVENTION CENTRE - 7F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC
O17203-V-SP-07-AC-0030 - CONVENTION CENTRE SEVENTH FLOOR 7F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
PHE
017203-U-SP-07-IP-0043 to 0045 - PLUMBING SYSTEM LAYOUT - SEVENTH FLOOR 7F - TOILET WATER SUPPLY LAYOUT

Key Plan FIRE STATION
DG BUILDING
ESS-2
ESS-1
EXHIBITION HALL 5B
EXHIBITION HALL 5C
EXHIBITION HALL 5D
SERVICE GALLERY (SG)
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Certification
EPC Contractor
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Structural | MEP | ICT
PEAC
Issued by:
Employer / Employer's Engineer

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED FOR GFC	13.02.23	BVH	SS	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA
Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	2700	R0

Title :
CONVENTION CENTER-7F-OVER ALL DATA & VOICE LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-DV-2700	AS INDICATED	A0

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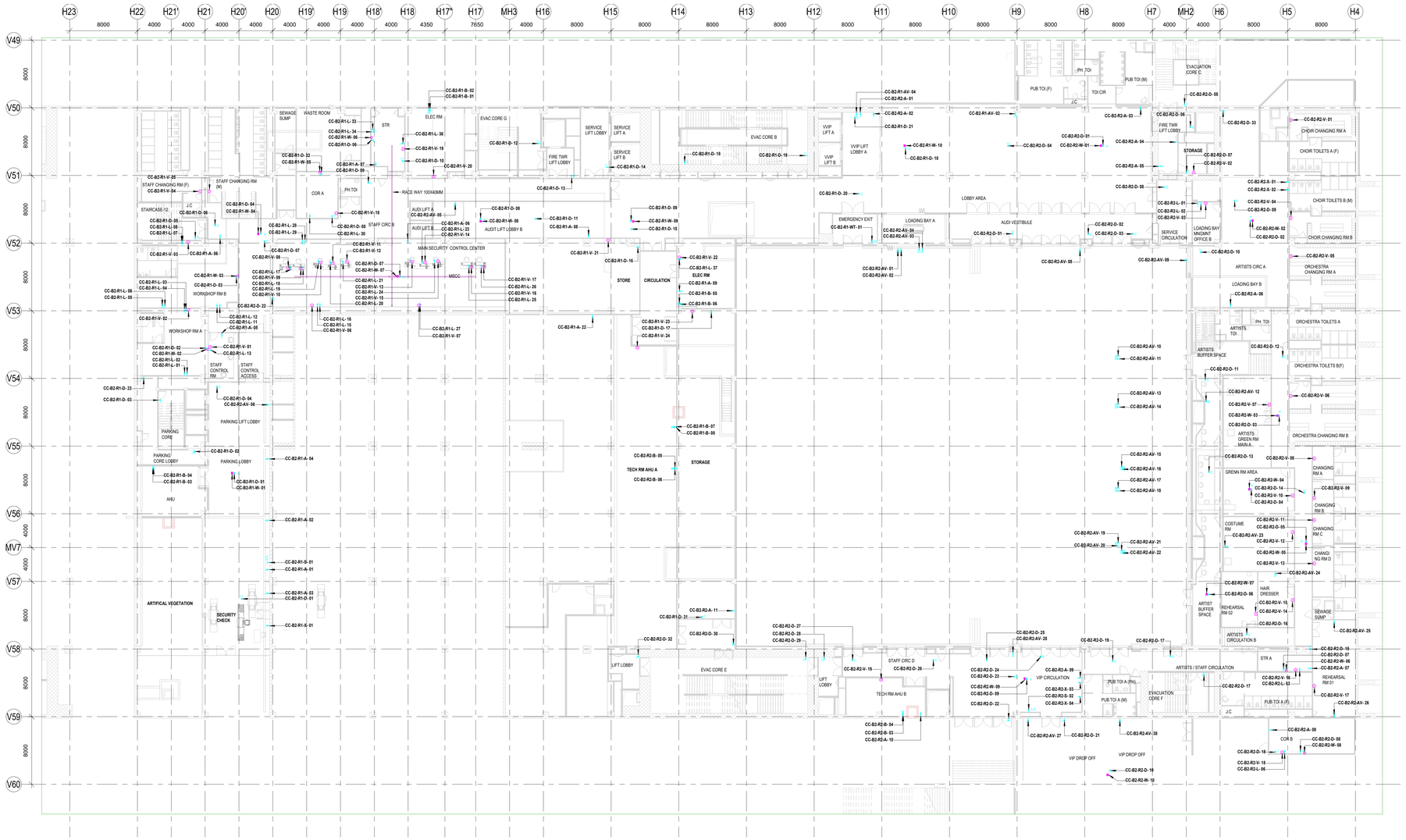
O17203 - L - 07 - 2700 (CONVENTION CENTER-7F-OVER ALL DATA & VOICE LAYOUT)



1 / 2901 CC_Basement 02 ELV SYSTEM OVERALL DATA & VOICE LAYOUT
1 : 200

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3. PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4. CONDUITS SHALL BE CONCEALED IN WALLS/CEILING IN NON-FALSE CEILING AREA.
5. SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6. CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING.
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX50%.

DATA VOICE
1. CAT 6A , 4 PAIR, 23 AWG, U/UTP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL.
2. HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3. HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4. ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5. SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL.
6. FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MANTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7. FOR CONFERENCE ROOMS NO. OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONSIDERING TOTAL NO OF USERS IN THAT AREA.
8.WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM
1. IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2. CAT-6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM
1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY
2. ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3. POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4. DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5. DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6. THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM
1. CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2. BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1. READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2. CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3. BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

EARTHING
1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2.EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEMS DRAWINGS.
THE DAS SYSTEM FORE MOBILE CARRIERS WILL BE DONE AFTER SITE SURVER BY SPECIALIST ONCE STRUCTURE IS READY . EPCC WILL ENSURE THE DAS COVERAGE

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0002 - NUMERATION DETAIL OF B2 LEVEL
O17203-C-SP-07-NU-1002 - NUMERATION DETAIL OF B2 LEVEL -ZONE 1
O17203-C-SP-07-NU-2002 -NUMERATION DETAIL OF B2 LEVEL -ZONE 2
ELECTRICAL
O17203-E-SP-07-TL-0341 to 03430-CONVENTION CENTER MSLD - 1/3 TO 3/3
O17203-E-SP-07-SC-0344-CONVENTION CENTER EARTHING SCHEMATIC
O17203-E-SP-07-EE-0208-CONVENTION CENTER -B2- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN
O17203-E-SP-07-EE-0209 to 0217-CONVENTION CENTER -B2- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT 1:9 TO 9/9
O17203-E-SP-07-DC-0380-CONVENTION CENTER - CABLE SCHEDULE
O17203-E-SP-07-DC-0381-CONVENTION CENTER -BASEMENT -2 CABLE TRAY SCHEDULE
ELV
O17203-L-SP-07-LV-1901-CONVENTION CENTER -B2- OVER ALL ELV SYSTEM LAYOUT
FPS
O17203-F-SP-07-PL-1003 to 6003-CONVENTION CENTRE - BASEMENT 2 - ZONE 1 TO ZONE 6: LAYOUT OF WETRISER CUM DOWNCOMER,
AUTOMATIC SPRINKLER SYSTEM, PORTABLE FIRST-AID FIRE EXTINGUISHERS AND PHOTOLUMINESCENT SAFETY SIGNAGES
PHE
O17203-U-SP-07-IP-0106 to 0108-PLUMBING SYSTEM LAYOUT - BASEMENT 2- WATER SUPPLY LAYOUT (SHEET 1 OF 3) TO (SHEET 3 OF 3)
O17203-U-SP-07-IP-0144 to 0145-BASEMENT 2 DRAINAGE DETAILS (SHEET 1 OF 2) TO (SHEET 2 OF 2)
HVAC
O17203-V-SP-07-AC-0021-CONVENTION CENTRE BASEMENT B2 OVERALL PLAN - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
O17203-V-SP-07-AC-1001 to 9001-CONVENTION CENTRE BASEMENT B2 - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT - ZONE 1 TO 9
FOR SECURITY CHECK EQUIPMENT
REFER DRAWING NO - O17203-L-SP-07-LV-6400

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2		WIFI ACCESS POINT	FALSE CEILING/WALL
3	X	DATA SOCKET FOR LAN	750mm FROM FFL
4	B	DATA SOCKET FOR BMS	1000mm FROM FFL
5	A	DATA SOCKET FOR ACP	1000mm FROM FFL/NEAR ACP
6	AV	DATA SOCKET FOR AV SYSTEM	TO BE CO-ORDINATE WITH AV DISPLAYS
7		DATA SOCKET FOR WIFI ACCESS POINT	FALSE CEILING
8	X	DATA SOCKET FOR SECURITY CHECK EQUIPMENTS	750mm FROM FFL
9	C	DATA SOCKET FOR CCTV	FALSE CEILING
10	WT	DATA SOCKET FOR WIRELSS TRANSMITTER	FALSE CEILING

TAGGING LEGENDS

CC B2 R1 V-01
- RJ 45 TELEPHONE SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 L-01
- RJ 45 TELEPHONE DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 A-01
- ACP DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 D-01
- CCTV DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 B-01
- BMS DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

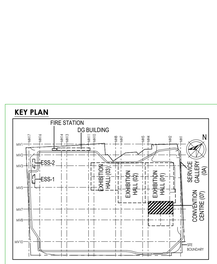
CC B2 R1 X-01
- XRAY DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 D-01
- WIFI DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 AV-01
- AV DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

CC B2 R1 WT-01
- WT DATA SOCKET
- RACK NO 1
- BASEMENT -2
- CONVENTION CENTER

KEY PLAN



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Architectural Consultant

Proof Consultant

Structural	MEP	ICT

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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	19.12.19	BVH	SS	MSK	QNR

Revisions

ARCHITECTURE		FPS	
STRUCTURAL		PIPING	
ELECTRICAL		PHE	
ELV SYSTEM		GIS	
HVAC		GEOTECH	
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
L&T Construction
Buildings & Factories

JOB No : 017203

Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTIONAL & EXPO CENTRE

SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	2901	R0

Title :
CONVENTION CENTRE-BASEMENT 2-OVER ALL DATA &VOICE LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-DV-2901	As Indicated	A0

O17203-L - 07 - 2901 (CONVENTION CENTRE-BASEMENT 2-OVER ALL DATA &VOICE LAYOUT)
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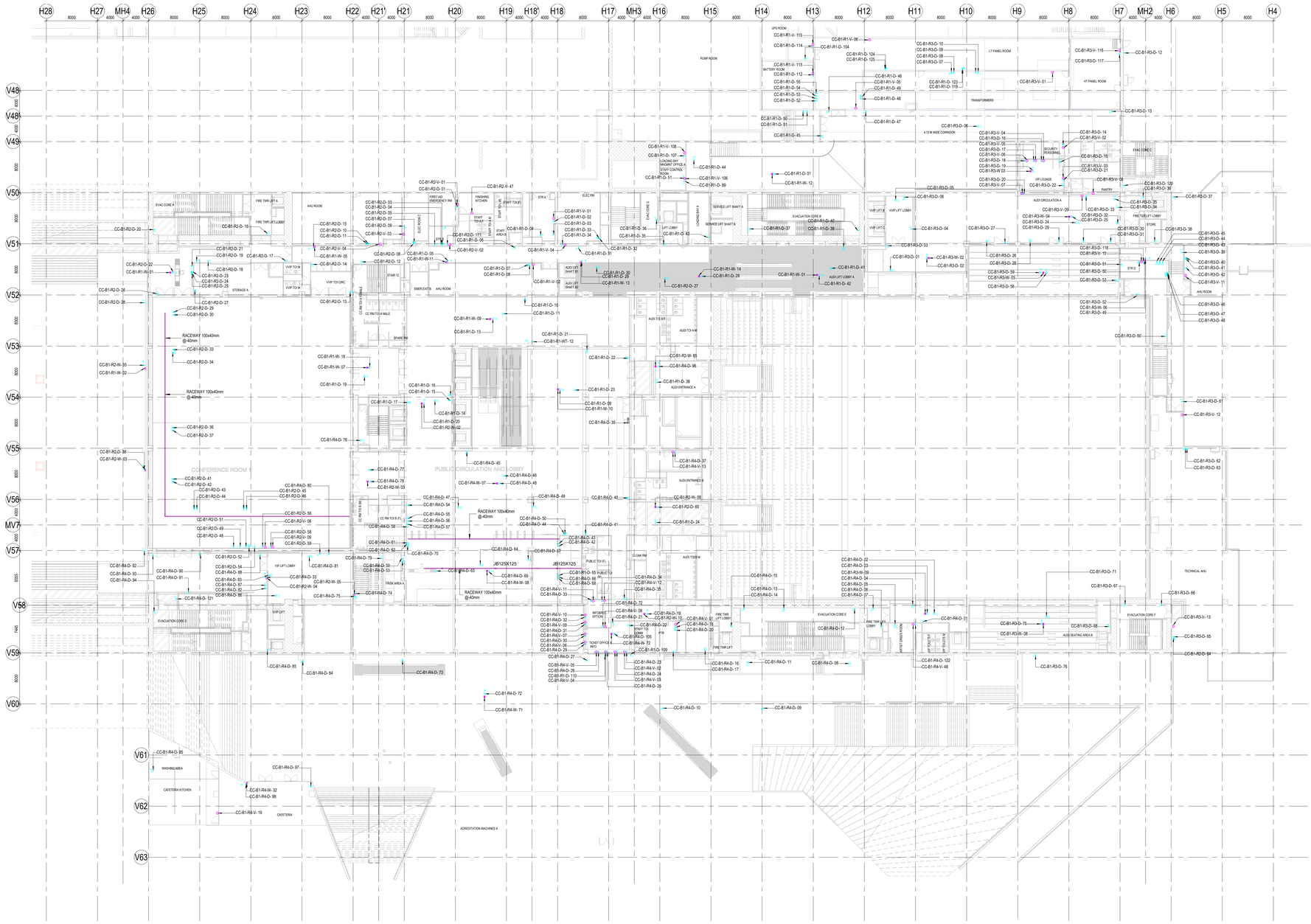

1 / 2902 CC_Basement 01_OVERALL VOICE AND DATA LAYOUT
1 : 250

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2.EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3.PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4.CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5.SUSPENDED CONDUITS ARE TO BE USED. IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6.CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7.PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9.THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX 50%

DATA VOICE
1. CAT 6A , 4 PAIR, 23 AWG, UU/TP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL
2.HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3.HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4.ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5.SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL.
6.FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7.FOR CONFERENCE ROOMS - NO. OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONSIDERING TOTAL NO OF USERS IN THAT AREA
8.WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM
1.IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2.CAT-6A, 4 PAIR TWISTED PAIR UU/TP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM
1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY
2.ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4.DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5.DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE
6.THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM
1.CATIA, 4 PAIR TWISTED PAIR UU/TP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1.READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2.CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3.BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

EARTHING
1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2.EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP.

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEM DRAWINGS.
BGM SPEAKERS SHALL BE SUBMITTED AS PART OF AV SYSTEM DRAWINGS.
THE DAS SYSTEM FOR MOBILE CARRIERS WILL BE DONE AFTER SITE SURVEY BY SPECIALIST ONCE STRUCTURE IS READY. EPCC WILL ENSURE THE DAS COVERAGE

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0003 - LAYOUT AND NUMERATION DETAIL OF LEVEL - B1 (-4.730M)
O17203-C-SP-07-NU-0004 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F0 (-0.080M)
ELECTRICAL
O17203-E-SP-07-LL-0010 to 0014 - CONVENTION CENTER - B1 - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0016 to 0018 - CONVENTION CENTER - B1 - POWER LAYOUTS
O17203-E-SP-07-EE-0218-CONVENTION CENTER -B1- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN
FPS
O17203-F-SP-07-PL-0004 - CONVENTION CENTRE - BASEMENT 1 - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
O17203-F-SP-07-FA-0005 - CONVENTION CENTRE - BASEMENT 1 - OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC
O17203-V-SP-07-AC-1002,2002,3002,4002,5002 & 6002 - CONVENTION CENTRE BASEMENT B1 - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
PHE
O17203-U-SP-07-IP-0006 to 0010 - PLUMBING SYSTEM LAYOUT - BASEMENT 1 - TOILET WATER SUPPLY LAYOUT
FOR SECURITY CHECK EQUIPMENT
REFER DRAWING NO - O17203-L-SP-07-LV-6300

TAGGING LEGENDS

CC B1 R1 D-01 → RJ 45 DATA SOCKET; RACK NO 1; BASEMENT -1; CONVENTION CENTER
CC B1 R1 V-01 → RJ 45 TELEPHONE SOCKET; RACK NO 1; BASEMENT -1; CONVENTION CENTER
CC B1 FB-01 → FLAB BARRIER NARROW; BASEMENT -1; CONVENTION CENTER
CC B1 R2 D-01 → RJ 45 DATA SOCKET; RACK NO 2; BASEMENT -1; CONVENTION CENTER
CC B1 R2 V-01 → RJ 45 TELEPHONE SOCKET; RACK NO 2; BASEMENT -1; CONVENTION CENTER
CC B1 FB-W -01 → FLAB BARRIER-WIDE; BASEMENT -1; CONVENTION CENTER
CC B1 R3 D-01 → RJ 45 DATA SOCKET; RACK NO 3; BASEMENT -1; CONVENTION CENTER
CC B1 R3 V-01 → RJ 45 TELEPHONE SOCKET; RACK NO 3; BASEMENT -1; CONVENTION CENTER
CC B1 R1 WT-01 → WIRELESS TRANSMISSION; RACK NO 1; BASEMENT -1; CONVENTION CENTER
CC B1 R4 D-01 → RJ 45 DATA SOCKET; RACK NO 4; BASEMENT -1; CONVENTION CENTER
CC B1 R4 V-01 → RJ 45 TELEPHONE SOCKET; RACK NO 4; BASEMENT -1; CONVENTION CENTER

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2		WIFI ACCESS POINT	FALSE CEILING/WALL
3	D	DATA SOCKET FOR LAN	750mm FROM FFL
4	D BMS	DATA SOCKET FOR BMS	1000mm FROM FFL
5	D AV	DATA SOCKET FOR AV SYSTEM	1000mm FROM FFL
6	D A	DATA SOCKET FOR ACP	1000mm FROM FFL
7	D W	DATA SOCKET FOR WIFI ACCESS POINT	FALSE CEILING
8	D X	DATA SOCKET FOR XRAY SCANNER & DFMD	750mm FROM FFL
9	D C	DATA SOCKET FOR CCTV	FALSE CEILING/ WALL
10	D HW	DATA SOCKET FOR HERITAGE WALL DISPLAY	1000mm FROM FFL
11	D WT	DATA SOCKET FOR WIRELSS TRANSMITTER	FALSE CEILING
12	JB	JUNCTION BOX (125X125)	-
13		METALLIC RACEWAY (100x40mm)	-
14	@	BOTTOM OF TRAY	-

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Indian Institute of Technology (IIT) Madras
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ICT Proof Consultant
CKR — CKR Consulting Engineers Pvt. Ltd.
F-617, 3rd Floor, Nanjiyana Arcade, Subbaramachetty Road, Nehlatapa Circle, Basavanagudi, Bengaluru - 560004

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Structural	MEP	ICT
PEAC		

Issued by:
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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	9.12.19	EVH	SS	MSK	GNR

Revisions

ARCHITECTURE			FFS		
STRUCTURAL			RPING		
ELECTRICAL			PHE		
ELV SYSTEM			GS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No: L 07 2902 — Rev. No: R0

Key Plan

Title :
CONVENTION CENTRE-BASEMENT 1-OVER ALL DATA & VOICE LAYOUT

EDRC DWG No : O17203-L-SP-07-DV-2902 — Scale: AS INDICATED — Sheet Size: A0

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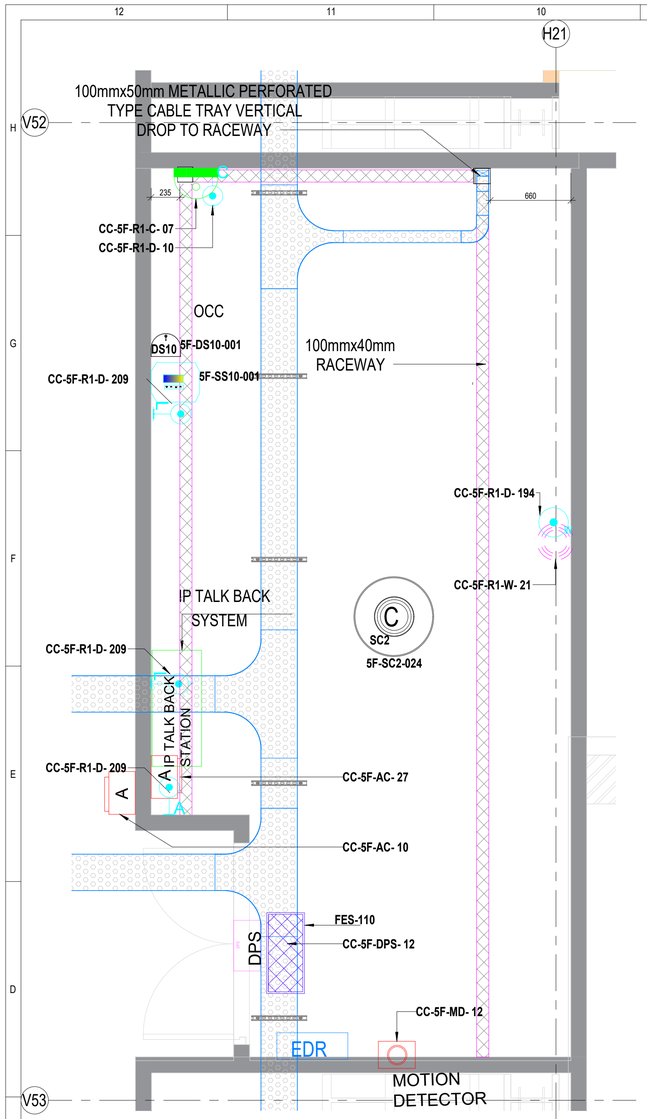
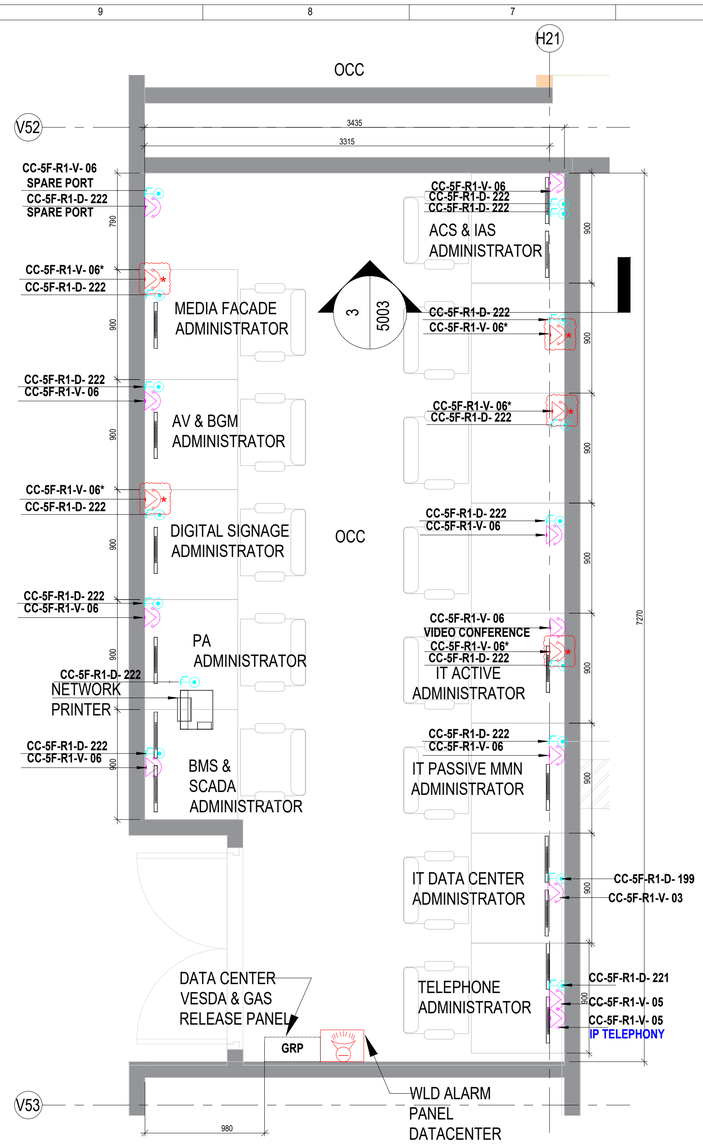
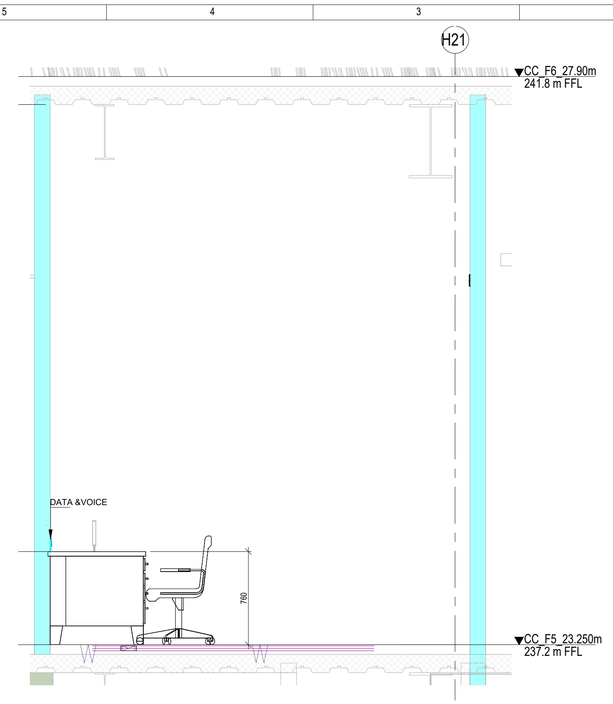


1 / 5004 CC_5F_ OCC ELV SYSTEM LAYOUT
1 : 25



2 / 5004 CC_5F_ OCC OPERATOR LAYOUT
1 : 25



3 / 5004 Section 3
1 : 25

NOTES:

GENERAL

1.CONDUITS IN EXPOSED MS CONDUIT TO BE USED.
2. OVER FALSE CELING,UNDER FLOOR OR EMBEDDED PVC CONDUITS TO BE USED
3. ALL CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
4. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
5. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
6.THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
7.THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
8.A CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
9.A MINIMUM SEPARATION DISTANCE OF 300MM AND SHOULD BE KEPT PHYSICALLY BETWEEN LIGHT CURRENT CABLES AND MEDIUM VOLTAGE CABLES.
10.METALLIC PERFORATED TYPE HOT DIP GALVANIZED CABLE TRAY FOR ICT
11.ALL NETWORK/ACP CABLE TO BE CONNECTED IN STR ROOM
12.FOR DIGITAL SINAGE SYSTEM, AV SYSTEM & BGM REFER AV SYSTEM LAYOUT.

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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM

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

DAS

1.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.

OTHERS

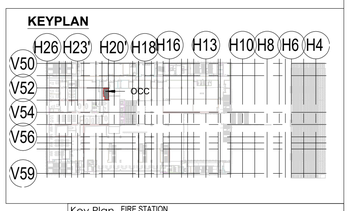
1.THE FURNITURE LAYOUT SHOWN IS INDICATIVE AS THE FURNITURE SCOPE OF WORK IS NOT UNDER THE PHASE OF WORK.
2.REFER SHOP DRAWING FURNITURE LAYOUT FOR FINAL DATA VOICE SOCKET LOCATION
3.THE WORKSTATIONS SHOWN ARE INDICATIVE INLINE TO RFP UNDERSTANDING.

NOTE *:
THE ITEM(S) INDICATED IN DRAWING WITH CLOUD OR ASTERISK (*) IS UNDER CONTINUED DISAGREEMENT WITH REGARD TO SCOPE OF WORK. DESIGN IS PROVIDED TO CONCLUDE THE ENGINEERING PACKAGE.

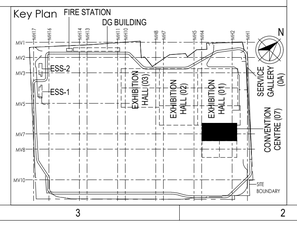
LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	QTY
1		TELEPHONE SOCKET	750mm FROM FFL/AS PER FURNITURE	11
2	L	DATA SOCKET FOR LAN	750mm FROM FFL/AS PER FURNITURE	18
3		DATA SOCKET FOR WIFI ACCESS POINT	WALL/FALSE CEILING MOUNTED	1
4	C CCTV	DATA SOCKET FOR CCTV	WALL/FALSE CEILING MOUNTED	1
5	A ACP	DATA SOCKET FOR ACP	WALL/FALSE CEILING MOUNTED	1
6	A	MULTI TECHNOLOGY CARD READER	1000mm FROM FFL	2
7	DPS	DOOR POSITION SENSOR & ELECTRO MAGNETIC LOCK	ON DOOR	1
8	EDR	EMERGENCY DOOR RELEASE	1000mm FROM FFL	1
9		DOME CAMERA	WALL/FALSE CEILING MOUNTED	1
10	ACP	ACCESS CONTROL PANEL	FALSE CEILING WALL MOUNTED	1
11		WIFI ACCESS POINT	FALSE CEILING/ WALL MOUNTED	1
12		MOTION DETECTOR	WALL/FALSE CEILING MOUNTED	1
13	IP TALK BACK STATION	IP TALK BACK PHONE(STATION)	1000mm FROM FFL	1
14		TELEPHONE SOCKET * SCOPE OF WORK ISSUE	750mm FROM FFL/AS PER FURNITURE	6*
15		BGM MONITORING SPEAKER 4" LOW PROFILE 2 WAY CEILING SPK.	CEILING MOUNTED	1
16	DS10	PAGING STATION	DESK MOUNTED	1
17	SS10	NETWORK ENABLE WALL MOUNT VOLUME / SOURCE SELECTION PANEL	WALL MOUNTED 1000mm FROM FFL	1
18		WALL MOUNT EVACUATION SPEAKER(PA) AS PER FAS LAYOUT	WALL MOUNTED	1
19		24" LED MONITOR WITH OPERATOR STATION	DESK MOUNTED	6
20		DUAL 24" LED MONITOR WITH OPERATOR STATION	DESK MOUNTED	4

KEYPLAN



Key Plan



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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED FOR GFC	04.05.20	SP	SS	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	5004	R0

Title :
CONVENTIONAL CENTRER - OCC ELV SYSTEM LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-LE-5004	AS INDICATED	A1

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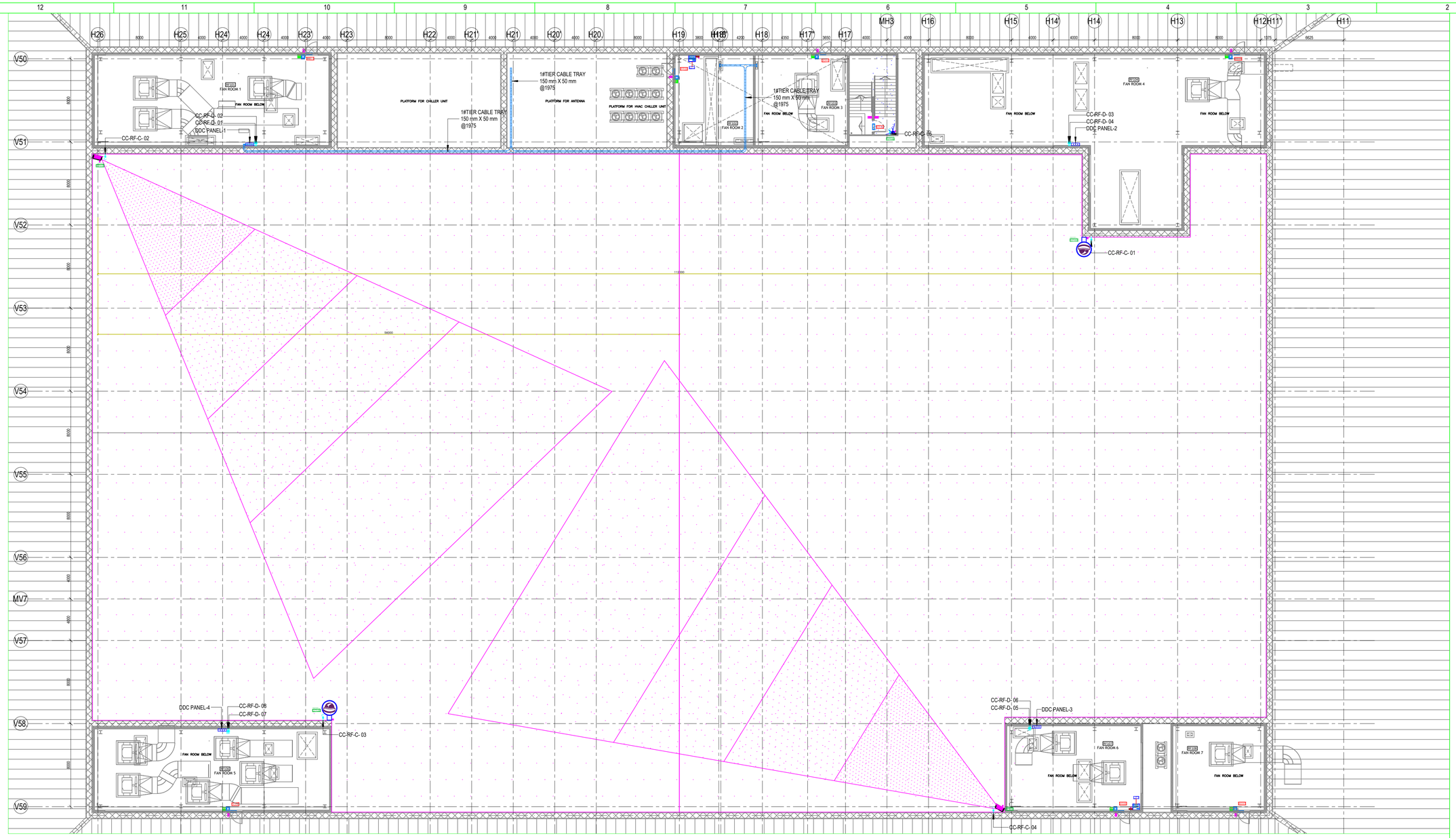


1 / 1800 CC_ TERRACE- ELV SYSTEM LAYOUT
1 : 200

ACS LEGENDS

S.NO	SYMBOL	ITEM DESCRIPTION	MOUNTING HEIGHT
1	ACCESS	ACCESS, DUAL READER CONTROLLER (Make-RBH, Model No.- RBHUNC200-432M)	INSIDE ENCLOSURE
2	DRIM	DUAL INTERFACE MODULE FOR READERS (Make-RBH, NURC 200D)	INSIDE ENCLOSURE
3	IMOD	INPUT & OUTPUT CONTROL MODULE (Make-RBH, Model No.- RBHIOC-16)	INSIDE ENCLOSURE
4		SMART CARD READER (Make-RBH, Model No.- RBH-R86)	1000MM FROM FFL
5		SMART CARD READER WITH KEYPAD (Make-RBH, Model No.- RBH-RK86)	1000MM FROM FFL
6		BIO-METRIC CARD READER (Make-RBH, Model No.- RBH-BFR-150)	1000MM FROM FFL
7		IRIS READER (Make-IRIS ID, Model No.- ICAM7000S-B)	1000MM FROM FFL
8	DC	MAGNETIC CONTACT (Make-CQR, Model No.- SC570/WHG3/EN)	ON DOOR
9		MAGNETIC CONTACT-ROLLING SHUTTER (Make-CQR, Model No.- RS507G/AB)	ON DOOR
10	EML-S	EM LOCK-SINGLE LEAF WITH DPS (Make-REMCON, Model No.- REM-600-LBS-SL-M)	ON DOOR
11	EML-D	EM LOCK- DOUBLE LEAF WITH DPS (Make-REMCON, Model No.- REM-600-LBS-DL-M)	ON DOOR
12	EBG	EMERGENCY BREAK GLASS UNIT (Make-BEL, Model No.-E-10BE)	1000MM FROM FFL
13	EB	EXIT PUSH BUTTON (Make- BEL, Model No.-DEB-335S)	1000MM FROM FFL
14	MD	MOTION DETECTOR (Make- TEXECOM, Model No.-AF80052)	2600MM FROM FFL
15		8 CORE CABLE (Make- SKYTONE)	INSIDE CONDUIT
16		4 CORE CABLE (Make- SKYTONE)	INSIDE CONDUIT
17		2 CORE CABLE (Make- SKYTONE)	INSIDE CONDUIT
18		25 MM PVC CONDUIT (Make- RMG)	ON WALL AND CEILING
19		32 MM PVC CONDUIT (Make- RMG)	ON WALL AND CEILING
20	ACP	METALLIC PERFORATED CABLE TRAY MADE OF HOT DIP GALVANISED SHEET	-
21	DDC	DDC PANEL	1000MM FROM FFL

CCTV LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		INDOOR/OUTDOOR FIXED CAMERA (Make-PELCO, Model No.- IMP231-1ERS)	WALL/FALSE CEILING MOUNTI
2		INDOOR/OUTDOOR VARIFOCAL DOME CAMERA (Make-PELCO, Model No.- IMP231-1ERS)	WALL/FALSE CEILING MOUNTI
3		OUTDOOR BULLET CAMERA (Make-PELCO, Model No.-IBP231-1ER)	WALL/FALSE CEILING MOUNTI
4		INDOOR/OUTDOOR 180 Deg PERIMETER CAMERA (Make-PELCO, Model No.-IMD2007-1ES)	WALL/FALSE CEILING MOUNTI
5		INDOOR/OUTDOOR 360 Deg REMOTE DOME CAMERA (Make-PELCO, Model No.-IMD2007-1ES)	WALL/FALSE CEILING MOUNTI
6		INDOOR/OUTDOOR 360 Deg CAMERA (Make-PELCO, Model No.-IMM12036-1ES)	WALL/FALSE CEILING MOUNTI
7		INDOOR FIXED CAMERA(Face Recognition) (Make-PELCO, Model No.- IMP231-1ERS)	WALL/FALSE CEILING MOUNTI
8		PATCH CORD	WALL/FALSE CEILING INSTALLA

OTHER VENDOR SCOPE

S.NO	SYMBOL	DESCRIPTION
1		IP Ethernet Point
2	UPS	UPS Power Supply Point (230V 6 AMP)

DATA & VOICE LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		DATA SOCKET FOR CCTV	WALL/FALSE CEILING INSTALLATION
2		DATA SOCKET FOR BMS	1000MM FROM FFL

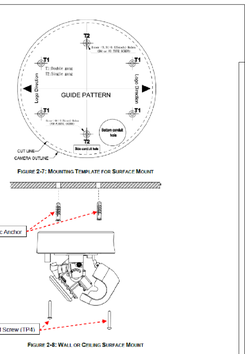
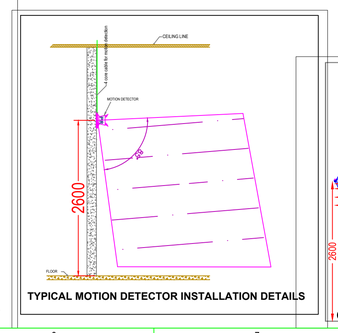


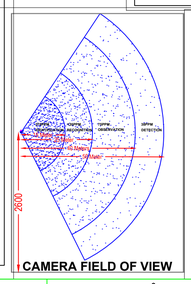
FIGURE 2-7: MOUNTING TEMPLATE FOR SURFACE MOUNT

FIGURE 2-8: WALL OR CEILING SURFACE MOUNT

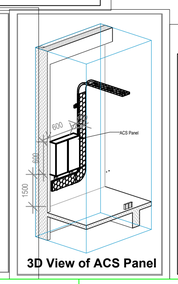
TYPICAL MOUNTING DETAILS FOR WALL CEILING SURFACE MOUNT



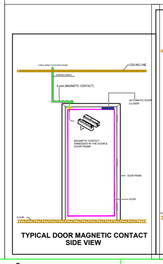
TYPICAL MOTION DETECTOR INSTALLATION DETAILS



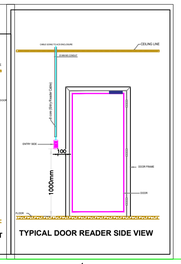
CAMERA FIELD OF VIEW



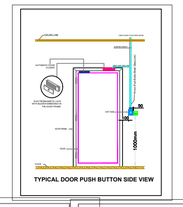
3D View of ACS Panel



TYPICAL DOOR MAGNETIC CONTACT SIDE VIEW



TYPICAL DOOR READER SIDE VIEW



TYPICAL DOOR PUSH BUTTON SIDE VIEW

GENERAL NOTE

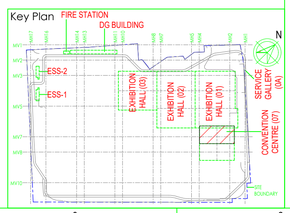
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS.
3. MS CONDUIT USED FOR OPEN APPLICATION.
4. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
5. 50% SPARE IS MAINTAINED IN CONDUIT.

CCTV & ACS SYSTEM

1. IP POINT HAS TO BE MADE AVAILABLE NEAR EACH CAMERA.
2. THE CCTV CAMERA VIEW ANGLE TO BE SET AS PER THE COVERAGE LOCATION.
3. ALL SCHEMATICS DRAWING SHALL BE SUBMITTED SEPARATELY.
4. IP POINT HAS TO BE MADE AVAILABLE NEAR EACH ACS CONTROLLER.

IP TALK BACK SYSTEM

1. CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT WITH NEAREST AVAILABLE IP POINT



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Employer's Engineer

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AECOM

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Engineering Design and Research Center (EDRC)
L&T Construction - Buildings & Factories

Architectural Consultant

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Indian Institute of Technology (IIT) Madras
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egis — Egis India Consulting Engineers Pvt. Ltd.
Plot No. 66, Sector 32, Institutional Area, Opp: Zenatix Solutions, Gurugram, Haryana 122001

ICT Proof Consultant

CKR — CKR Consulting Engineers Pvt. Ltd.
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Structural	MEP	ICT

PEAC

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Employer / Employer's Engineer

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED FOR GFC	21.03.20	BVH	MVK	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	1900	R0

Title :
CONVENTION CENTER-TERRACE- ELV SYSTEM LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-O7-LV-1900	1:200	A1

O17203 - L - 07 - 1900 (CONVENTION CENTER-TERRACE- ELV SYSTEM LAYOUT)

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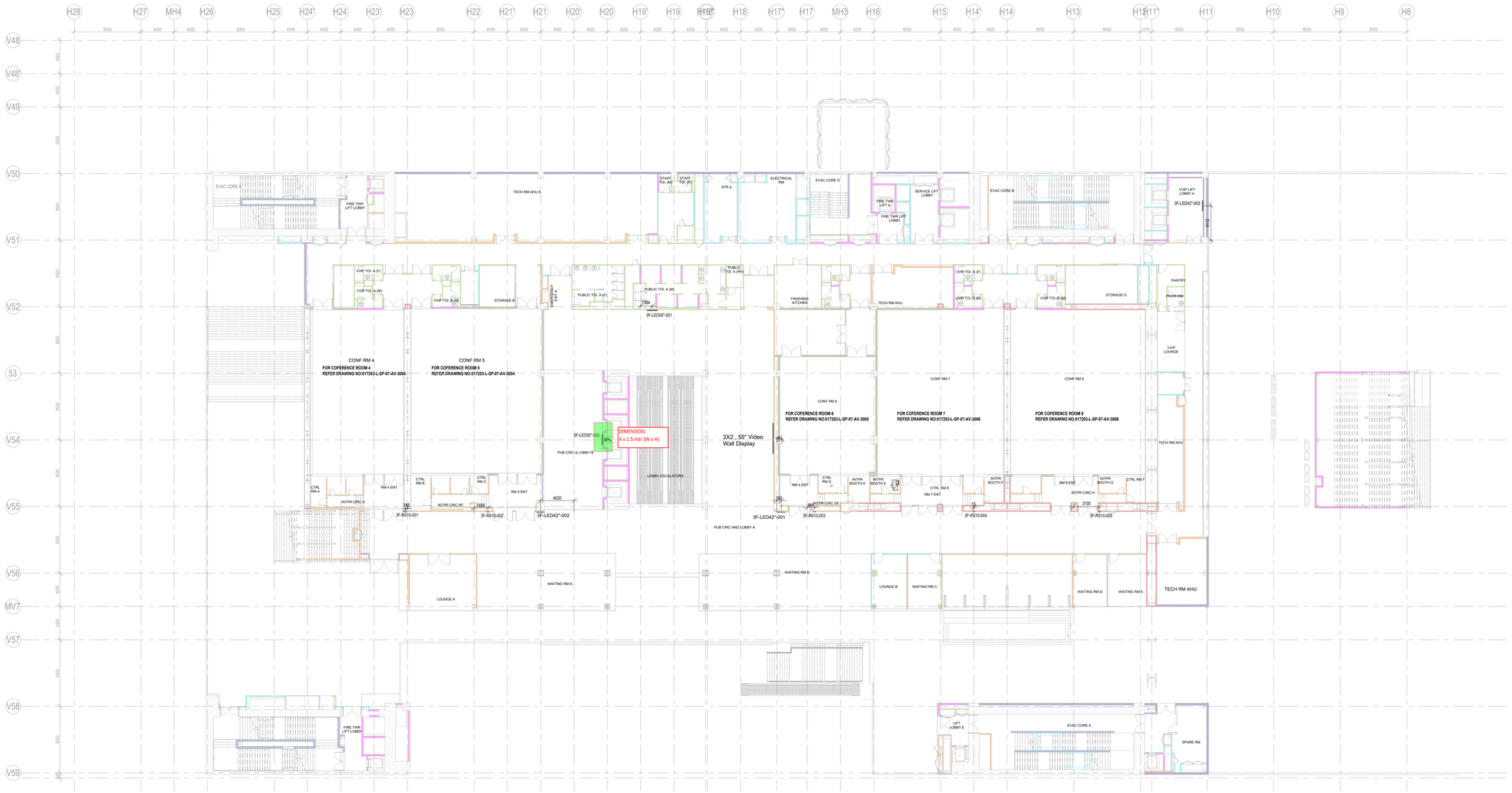


1 / 3056 CC_F3_DIGITAL SIGNAGE SYSTEM LAYOUT
1 : 200

NOTES

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3. PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4. CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5. SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6. CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
11. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
12. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS)

DIGITAL SIGNAGE & VIDEO WALL EQUIPMENT LEGEND

S.NO	SYMBOL TOP	SYMBOL FRONT	DEVICE ID	TENDER SPEC.NO	DESCRIPTION	MOUNTING HEIGHT	QTY
1	—		SVD55	239	55" DIGITAL SIGNAGE	WALL MOUNTED	02 Nos
2			RS 10		ROOM SCHEDULER	WALL MOUNTED	05 Nos
3				--	3X2 _ 55" VIDEO WALL DISPLAY	WALL MOUNTED	01 No
4	—		SVD42	240	42" DIGITAL SIGNAGE	WALL MOUNTED	03 Nos

TAGGING

CC 3F SVD
- SIGNAGE VIDEO DISPLAY
- THIRD FLOOR
- CONVENTION CENTER

CC 3F KISOK
- PAYMENT KISOK
- THIRD FLOOR
- CONVENTION CENTER

CC 3F LED55*
- LIGHT EMITTING PANEL
- THIRD FLOOR
- CONVENTION CENTER

CC 3F LED42*
- LIGHT EMITTING PANEL
- THIRD FLOOR
- CONVENTION CENTER

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0007 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F4 (+18.520M)

ELECTRICAL
O17203-E-SP-07-LL-0046 - CONVENTION CENTER - THIRD FLOOR 3F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0154 - CONVENTION CENTER - THIRD FLOOR 3F - POWER LAYOUTS
O17203-E-SP-07-EE-0258 -CONVENTION CENTER -3F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN

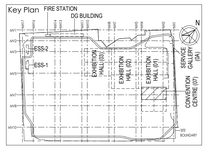
ELV
017203-L-SP-07-LV-1300 - CONVENTION CENTER -3F- OVER ALL ELV SYSTEM LAYOUT

FPS
O17203-F-SP-07-PL-0019 -CONVENTION CENTRE - 3F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
17203-F-SP-07-FA-0020 - CONVENTION CENTRE - 3F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES

HVAC
O17203-V-SP-07-AC-0026 CONVENTION CENTRE THIRD FLOOR 3F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT

PHE
017203-U-SP-07-IP-0070 to 0073 - PLUMBING SYSTEM LAYOUT -THIRD FLOOR 3F- TOILET WATER SUPPLY LAYOUT

Key Plan



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Employer's Engineer
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Preliminary Engineering Architecture Consultants (PEAC)
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CPKUKREJA ARCHITECTS — No.D-1, Ashirwad Building, Green Park, New Delhi, Delhi 110016, India

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Engineering Design and Research Center (EDRC)
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Indian Institute of Technology (IIT) Madras
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Plot No. 66, Sector 32, Institutional Area, Opp. Zenotte Solutions, Gurugram, Haryana 122001

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Structural	**MEP**	**ICT**
PEAC		

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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	04.02.25	BVH	SM	MSK	GNR

Revisions

ARCHITECTURE			PFS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			GEOTECH.		
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
L&T Construction
Buildings & Factories

JOB No : 017203

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

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	3056	R0

Title :
CONVENTION CENTER-THIRD FLOOR DIGITAL SIGNAGE SYSTEM LAYOUT

EDRC DWG No :	Scale	Sheet Size
017203-L-SP-07-LV-3056	AS INDICATED	A0

017203 - L - 07 - LV - 3056 (DIGITAL SIGNAGE SYSTEM LAYOUT)

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1 / 3059 CC_F6_DIGITAL SIGNAGE SYSTEM LAYOUT
1 : 200

NOTES

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
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10. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
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12. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS)

DIGITAL SIGNAGE & VIDEO WALL EQUIPMENT LEGEND

S.NO	SYMBOL TOP	SYMBOL FRONT	DEVICE ID	TENDER SPEC.NO	DESCRIPTION	MOUNTING HEIGHT	QTY
1	—	▭	SVD55	239	55" DIGITAL SIGNAGE	WALL MOUNTED	02 Nos
2	▭	▭	ERK 1		EQUIPMENT RACK	FLOOR MOUNTED	02 No
3	—	▭	SVD42		42" DIGITAL SIGNAGE	WALL MOUNTED	04 Nos
4	—	▭▭			3X2 , 55" VIDEO WALL DISPLAY	WALL MOUNTED	02 No

TAGGING

CC 6F LED42"
- LIGHT EMITTING PANEL
- SIXTH FLOOR
- CONVENTION CENTER

CC 6F ERK 1
- EQUIPMENT RACK
- SIXTH FLOOR
- CONVENTION CENTER

CC 6F LED55"
- LIGHT EMITTING PANEL
- SIXTH FLOOR
- CONVENTION CENTER

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0007 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F4 (+18.520M)

ELECTRICAL
O17203-E-SP-07-LL-0046 - CONVENTION CENTER - THIRD FLOOR 3F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0154 - CONVENTION CENTER - THIRD FLOOR 3F - POWER LAYOUTS
O17203-E-SP-07-EE-0258 -CONVENTION CENTER -3F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN

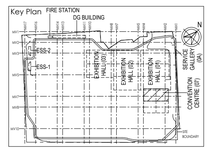
ELV
O17203-L-SP-07-LV-1600 - CONVENTION CENTER -6F- OVER ALL ELV SYSTEM LAYOUT

FPS
O17203-F-SP-07-PL-0019 -CONVENTION CENTRE - 3F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
17203-F-SP-07-FA-0020 - CONVENTION CENTER - 3F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES

HVAC
O17203-V-SP-07-AC-0026 CONVENTION CENTRE THIRD FLOOR 3F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT

PHE
017203-U-SP-07-IP-0070 to 0073 - PLUMBING SYSTEM LAYOUT -THIRD FLOOR 3F- TOILET WATER SUPPLY LAYOUT

Key Plan



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AECOM

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44/11, 3rd Floor, Narayana Arcade, Subbaramachetty Road, Nettikappa Circle, Basavanagudi, Bengaluru - 560004

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Architectural Consultant
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PEAC
Issued by:
Employer / Employer's Engineer

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
00	ISSUED AS GOOD FOR CONSTRUCTION	10.04.22	BVH	SM	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	3059	R0

Title :
CONVENTION CENTER-SIXTH FLOOR
DIGITAL SIGHNAGE SYSTEM LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-LV-3059	AS INDICATED	A0

O17203 - L - 07 - 3059 (DIGITAL SIGNAGE SYSTEM LAYOUT)

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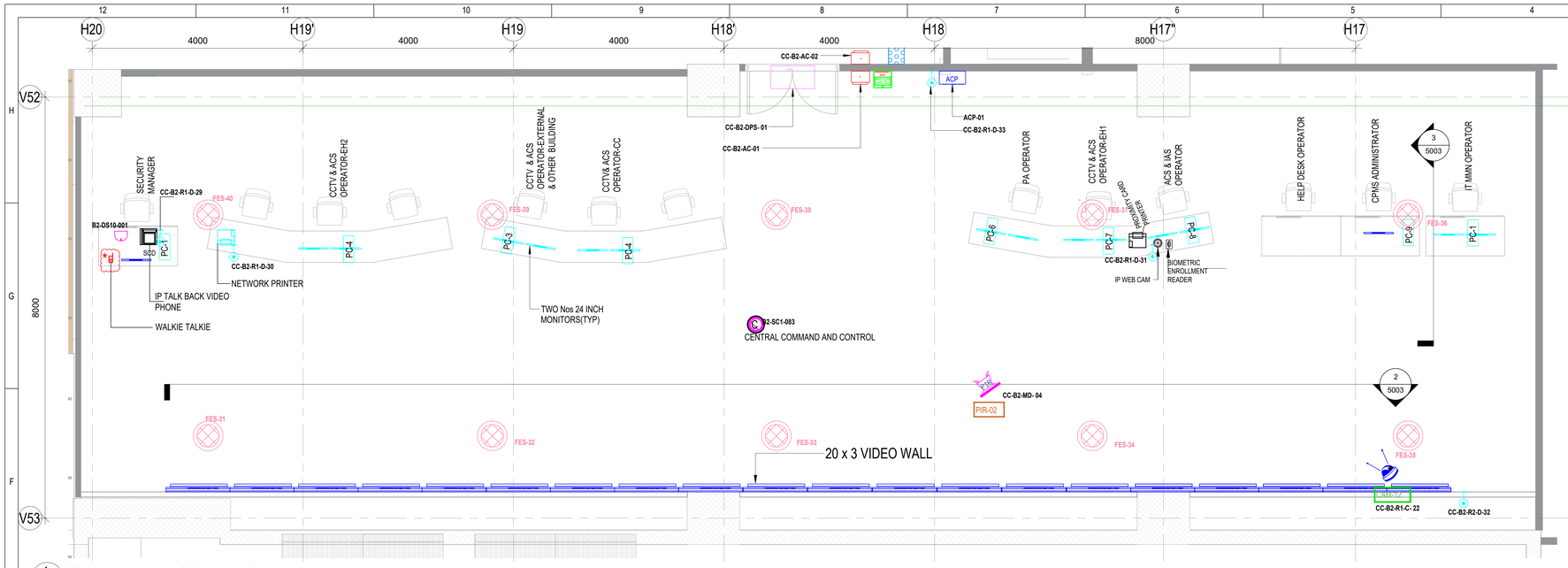
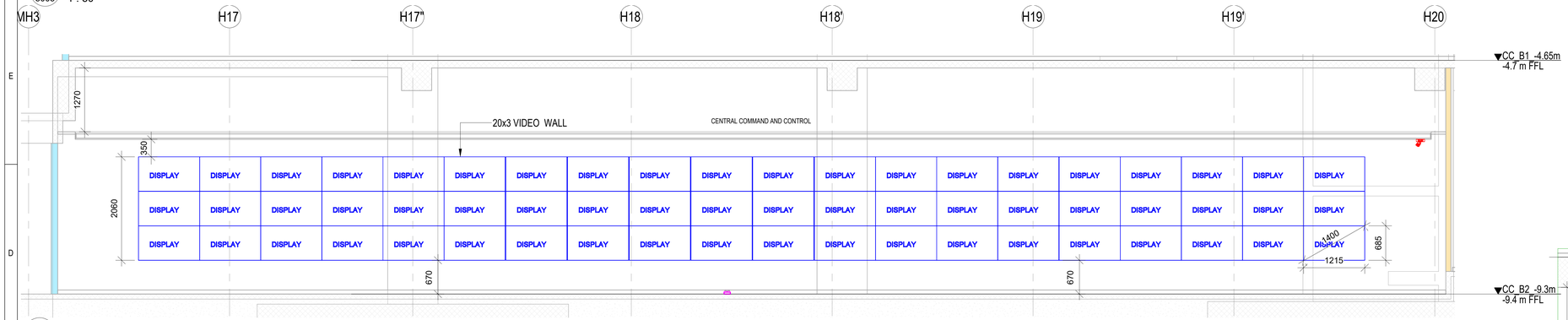
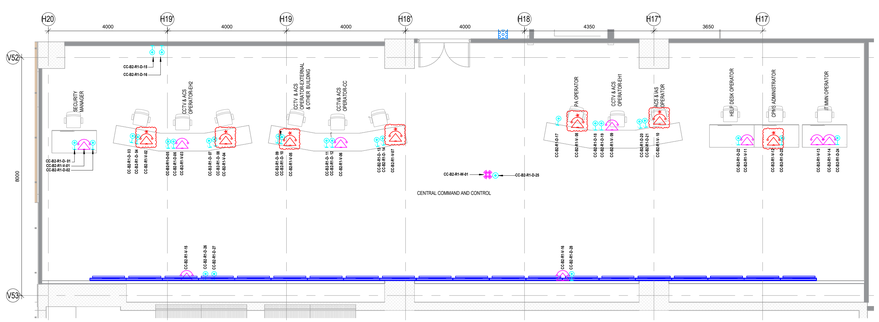


1 / 5003 CC_Basement 02 - MSCC-ELV LAYOUT
1 : 50



2 / 5003 MSCC SECTION 1
1 : 50



2 / 5003 MSCC DATA VOICE LAYOUT
1 : 100

NOTES

GENERAL

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8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX50%.

DATA VOICE

1. CAT 6A , 4 PAIR, 23 AWG, U/UTP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL
2. HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3. HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4. ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5. SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL.
6. FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7. FOR CONFERENCE ROOMS-NO. OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONSIDERING TOTAL NO OF USERS IN THAT AREA.
8. WIFI HEAT MAP SHALL BE SUBMITTED AS PART OF SHOP DRAWING.

CCTV SYSTEM

1. IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2. CAT-6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM

1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY.
2. ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3. POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4. DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5. DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6. THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTIMISED AS PER SHOP DRAWING.

IP TALK BACK SYSTEM

1. CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2. BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

EARTHING

1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2. EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP

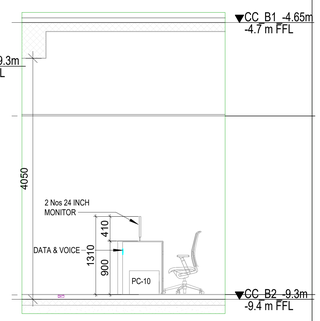
MSCC

1. VIDEO WALL POWER SOCKETS SHALL BE FIXED AT 1600mm FROM FFL
2. THE FURNITURE LAYOUT SHOWN IS INDICATIVE AS THE FURNITURE SCOPE OF WORK IS NOT UNDER THE PHASE OF WORK.
3. REFER SHOP DRAWING FURNITURE LAYOUT FOR FINAL DATA VOICE SOCKET LOCATION
4. THE WORKSTATIONS SHOWN ARE INDICATIVE INLINE TO RFP UNDERSTANDING.

OTHERS:

1. FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEMS DRAWINGS.
2. THE DAS SYSTEM FORE MOBILE CARRIERS WILL BE DONE AFTER SITE SURVER BY SPECIALIST ONCE STRUCTURE IS READY . EPCC WILL ENSURE THE DAS COVERAGE

NOTE *:
THE ITEM(S) INDICATED IN DRAWING WITH CLOUD OR ASTERISK (*) IS UNDER CONTINUED DISAGREEMENT WITH REGARD TO SCOPE OF WORK. DESIGN IS PROVIDED TO CONCLUDE THE ENGINEERING PACKAGE.



3 / 5003 Section 38
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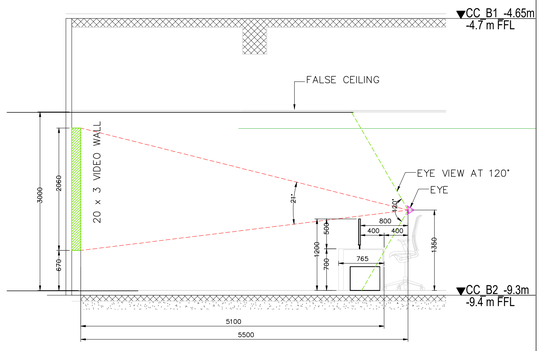
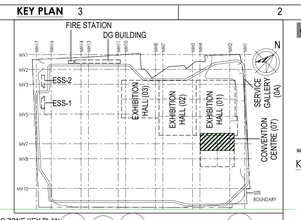
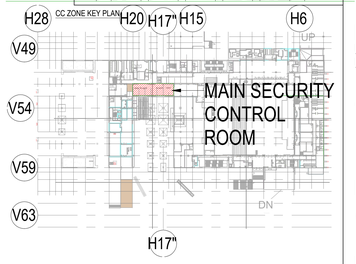


SECTION FOR VIDEO WALL VIEWING ANGLE





LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	QTY
1		TELEPHONE SOCKET	750mm FROM FFL	09 Nos
2		DATA SOCKET FOR LAN	750mm FROM FFL	27 Nos
3		DATA SOCKET FOR ELV	CEILING/WALL MOUNTED	05 Nos
4		DATA SOCKET FOR WIFI	CEILING MOUNTED	01 No
5		MULTI TECHNOLOGY CARD READER	1000mm FROM FFL	02 Nos
6	ACP	ACCESS CONTROL PANEL	1000mm FROM FFL	01 No
7	DPS	DOOR POSITION SENSOR + ELECTRO MAGNETIC LOCK	AS PER DOOR DETAILS	01 No
8		EMERGENCY DOOR RELEASE	1000mm FROM FFL	01 No
9	PIR	MOVEMENT DETECTOR	FALSE CEILING	01 No
10		DOME CAMERA	FALSE CEILING & WALL	01 No
11		WIFI ACCESS POINT	FALSE CEILING	01 No
12		BGM MONITORING SPEAKER 4" LOW PROFILE 2 WAY CEILING SPK	CEILING MOUNTED	01 No
13		WALKIE TALKIE * SCOPE OF WORK ISSUE	750mm FROM FFL/AS PER FURNITURE	01 No
14		PAGING STATION	DESK MOUNTED	01 No
15		TELEPHONE SOCKET * SCOPE OF WORK ISSUE	750mm FROM FFL/AS PER FURNITURE	07 Nos
16		CEILING MOUNT EVACUATION SPEAKER(IP/A) AS PER FAS LAYOUT	CEILING MOUNTED	10 Nos
17		DUAL 24" LED MONITOR WITH OPERATOR STATION	DESK MOUNTED	6 Nos
18		24" LED MONITOR WITH OPERATOR STATION	DESK MOUNTED	2 Nos

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Department of Industrial Policy and Promotion Ministry of Commerce & Industry Government of India

Knowledge Partner

Delhi Mumbai Industrial Corridor Development Corporation
Room No 341 B, 3rd Floor Hotel Ashok, Diplomatic Enclave, 50B Chankyapuri, New Delhi - 110021

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Employer's Engineer
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AECOM

Preliminary Engineering Architecture Consultants (PEAC)

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Engineering Design and Research Center (EDRC)
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Indian Institute of Technology (IIT) Madras
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MEP Proof Consultant
egis — Egis India Consulting Engineers Pvt. Ltd.
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ICT Proof Consultant
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	04.06.20	SP	SS	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	5003	R0

Title :
CONVENTION CENTER-BASEMENT-2 MAIN SECURITY CONTROL CENTER ELV LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-LE-5003	As Indicated	A1

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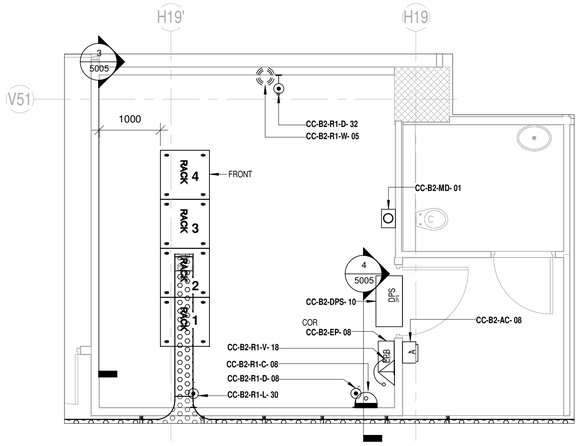
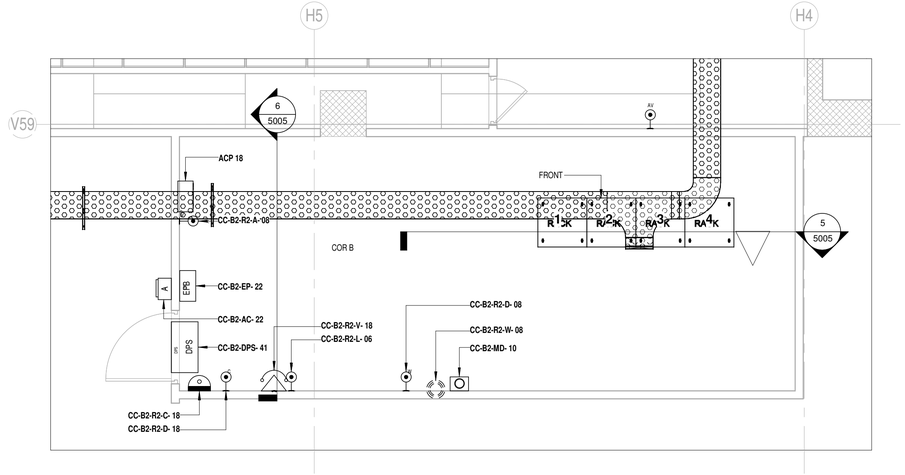
O17203 - L - 07 - 5003 (CONVENTION CENTER-BASEMENT-2 MAIN SECURITY ROOM ELV LAYOUT)



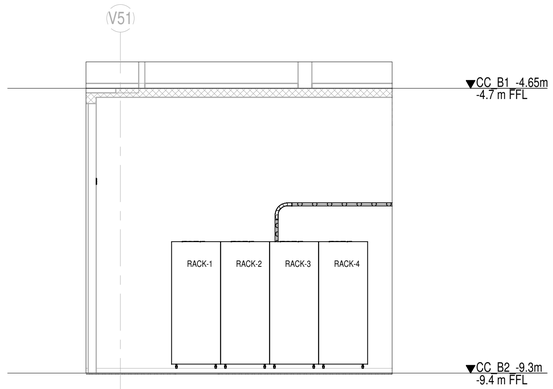
1 / 5005 CC_Basement 02 ELV SYSTEM - COR - 1
1 : 50



2 / 5005 CC_Basement 02 ELV SYSTEM OVERALL LAYOUT COR B
1 : 50

LEGENDS

S.NO	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
1		TELEPHONE SOCKET	750mm FROM FFL
2		DATA SOCKET FOR LAN	750mm FROM FFL
3	B	DATA SOCKET FOR BMS	1000mm FROM FFL
4	A	DATA SOCKET FOR ACP	1000mm FROM FFL
5	C	DATA SOCKET FOR WALL CCTV	1000mm FROM FFL
6	F	DATA SOCKET FOR CELING CCTV	FALSE CELING
7	W	WI-FI DATA OUTLET	WALL MOUNTED
8		DOME CAMERA	FALSE CEILING
9	A	ACCESS CONTROL CARD	1000mm FROM FFL
10	DPS	DOOR POSITION SENSOR	AS PER DOOR DETAILS
11	EPB	EMERGENCY PUSH BUTTON	1000mm FROM FFL
12	ACP	ACCESS CONTROL PANEL	1000mm FROM FFL
13	RACK	RACK	FLOOR MOUNTED
14		MOVEMENT DETECTOR	2600mm FROM FFL
15		MOVEMENT DETECTOR	FALSE CEILING
16		WI-FI ACCESS POINT	FALSE CEILING/2600MM
17		METALLIC PERFORATED CABLE TRAY MADE OF HOT DIP GALVANISED SHEET	CHECK AS PER LAYOUT(DATA VOICE OVERALL)



3 / 5005 CC-Basement 02 ELV SYSTEM-COR -A
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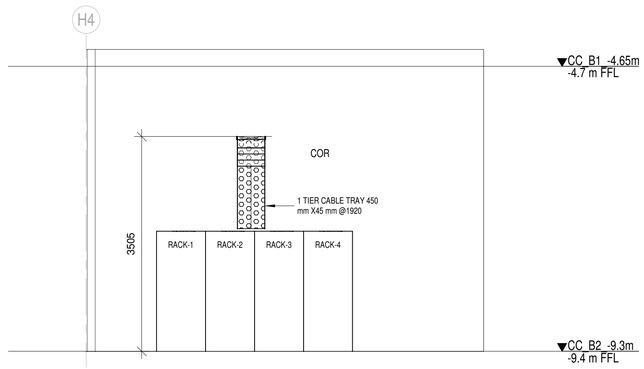

5 / 5005 CC_Basement 02 ELV SYSTEM_COR-2
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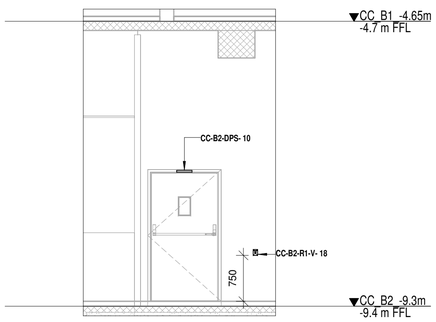

4 / 5005 CC-B2 COR A SECTION 1
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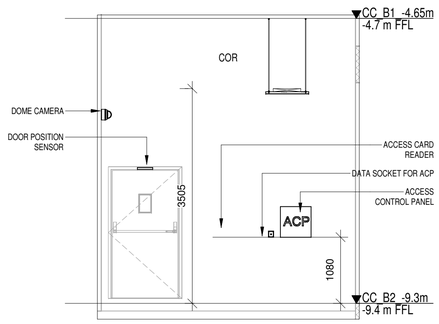


6 / 5005 COR RM2 SEC - 1
1 : 50

NOTES

GENERAL
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3. PVC CONDUIT SHALL BE USED FOR EMBADDED APPLICATION AND MS CONDUIT FOR OPEN APPLICATION
4. CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5. SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6. CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
12. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX 50%

DATA VOICE
1. CAT 6A , 4 PAIR, 23 AWG, U/UTP CABLE SHALL BE USED TO CONNECT RJ 45 DATA/VOICE SOCKETS TO JACK PANEL
2. HORIZONTAL CABLES SHALL BE TERMINATED ON THE RJ- 45 OUTLETS AT THE WORK AREA AND PATCH PANEL AT THE RACK IN NEAREST STR ROOM
3. HORIZONTAL CABLES SHALL BE TAKEN THROUGH MS / PVC CONDUITS / CABLE TRAY
4. ALL WALL MOUNTED TELEPHONE / DATA SOCKETS COULD BE ALIGNED AT A HEIGHT OF 750MM FROM FFL UNLESS AND OTHERWISE SPECIFIED.
5. SOCKETS ABOVE COUNTER SLABS TO BE MOUNTED AT A HEIGHT OF 900MM FROM FFL.
6. FOR ALL OTHER TELEPHONE AND DATA SOCKETS,THE LEVEL SHALL BE MAINTED AS PER FURNITURE LAYOUT AND ARCHITECTURAL CONCURRENCE AS PER SITE CONDITION.
7. FOR CONFERENCE ROOMS - NO. OF WIRELESS ACCESS POINTS SHALL BE DESIGNED CONISDERING TOTAL NO OF USERS IN THAT AREA
8.LOCATION OF WIFI AP DEVICES ARE INDICATIVE IT SHALL BE INSTALLED BASED ON SITE SURVEY

CCTV SYSTEM
1. IP BASED CCTV CAMERA SYSTEM SHALL BE INSTALLED
2. CAT-6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CAMERA WITH PATCH PANEL
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 CHOSEN CAMERA TYPE, LENS TYPE ETC

ACCESS CONTROL SYSTEM

1. ALL CABLES FROM CARD READER/MAGNETIC LOCK/DOOR CONTACT/PUSHBUTTON SHALL BE TERMINATED AT ACCESS CONTROL PANEL LOCATED IN NEARBY.
2. ACCESS CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3. POWER POINT/SOCKET FOR ALL THE ACCESS CONTROL PANELS, REFER ELECTRICAL POWER LAYOUT.
4. DPS ARE CONNECTED TO RESPECTIVE ZONE INTRUTION ALARM CONTROLLER / IO MODULE
5. DATA POINT FOR ACCESS CONTROLLER SHALL BE OPTIMISED AS PER SHOP DRAWING.

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 OEM BMS CABLE SCHEDULE.
6. THE MAIN INTEGRATION PROTOCOL SHALL BACNET OVER TCP/IP & BACNET OVER MSTP.
7. BMS DATA POINT SHALL BE OPTMISED AS PER SHOP DRAWING.

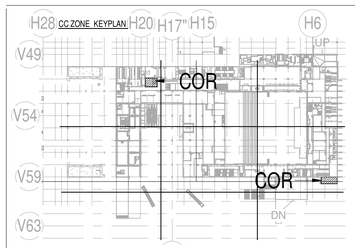
IP TALK BACK SYSTEM
1. CAT6A, 4 PAIR TWISTED PAIR U/UTP CABLES SHALL BE USED TO CONNECT CONSOLE WITH PATCH PANEL
2. BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

GUARD TOUR SYSTEM
1. READER SHALL BE TERMINATED TO THE NEARBY CONTROLLER
2. CONTROL PANELS SHALL BE CONNECTED TO SWITCH LOCATED AT NEAR BY STR ROOM, BY CAT 6A UTP CABLE
3. BOTTOM OF CONSOLE SHALL BE MOUNTED 1500MM FROM FFL

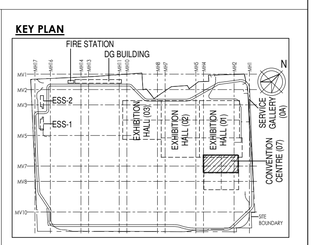
EARTHING
1. ALL RACK SHALL BE EARTHED TO NEAREST EARTHBUS LOCATED STR ROOM
2. EARTH BUS SHALL BE CONNECTED TO THE NEAREST ELECTRICAL EARTHING STRIP.

SEC
1.EQUIPMENTS SHALL BE INSTALLED AS PER CONTRACTOR / RFP.

NOTE:
FIRE EVACATION SPEAKERS SHALL BE SUBMITTED AS PART OF FIRE SYSTEMS DRAWINGS.
THE DAS SYSTEM FORE MOBILE CARRIERS WILL BE DONE AFTER SITE SURVER BY SPECIALIST ONCE STRUCTURE IS READY . EPCC WILL ENSURE THE DAS COVERAGE



KEY PLAN



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AECOM

Preliminary Engineering Architecture Consultants (PEAC)

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Structural Proof Consultant

Indian Institute of Technology (IIT) Madras
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Architectural Consultant

Proof Consultant

Structural	MEP	ICT

PEAC

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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	19.12.19	BVH	SS	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	5005	R0

Title :
CONVENTION CENTRE-BASEMENT 2 - COR ELV LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-LV-5005	As Indicated	A1

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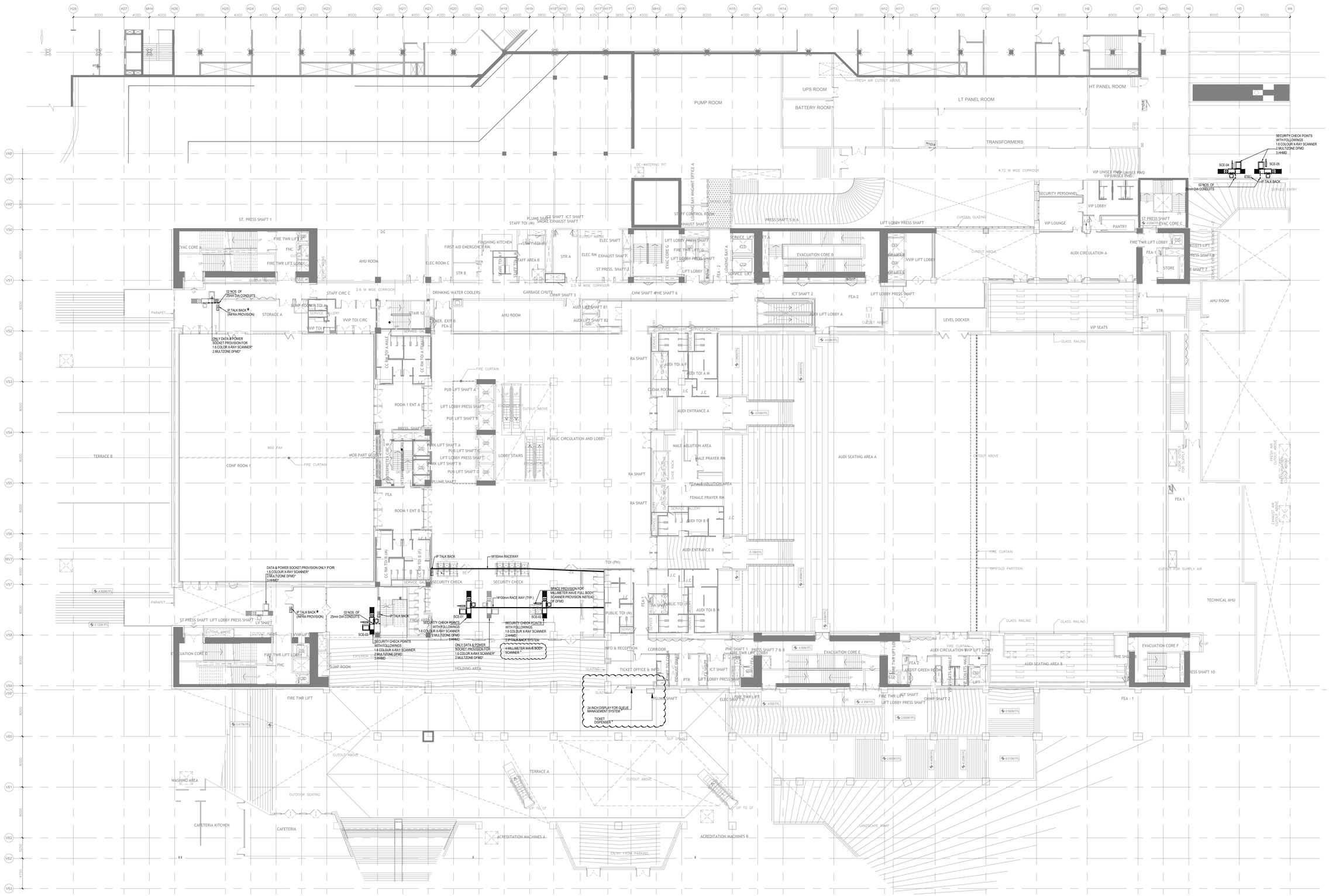
O17203 - L - 07 - 5005 (CONVENTION CENTRE-BASEMENT 2 - COR ELV LAYOUT)



A CC_BASEMENT 01_SECURITY CHECK EQUIPMENTS
6300 1 : 200

NOTES

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3. PVC CONDUIT SHALL BE USED FOR EMBEDDED CONDUITING. MS CONDUIT SHALL BE USED FOR EXPOSED CONDUITNG
4. CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5. SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL.
6. CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10.CABLE TRAY SUPPORT MUST ALSO BE PLACED WITHIN 0.60 METERS ON EACH SIDE OF ANY CONNECTION TO A FITTING.
11. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING AND ELECTRICAL CABLING.
12.THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
13.PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS) SHALL BE FILLED BY MAX 50%.

NOTE

"THE ITEM(S) INDICATED IN DRAWING WITH CLOUD OR ASTERISK (*) IS UNDER CONTINUED DISAGREEMENT WITH REGARD TO SCOPE OF WORK. DESIGN IS PROVIDED TO CONCLUDE THE ENGINEERING PACKAGE AS PER DISCUSSION HELD ON 31ST JAN 2020"

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0003 - LAYOUT AND NUMERATION DETAIL OF LEVEL - B1 (-4.730M)
O17203-C-SP-07-NU-0004 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F0 (-0.080M)
ELECTRICAL
O17203-E-SP-07-LL-0010 TO 0014 - CONVENTION CENTER - B1 - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0016 TO 0018 - CONVENTION CENTER - B1 - POWER LAYOUTS
O17203-E-SP-07-EE-0218-CONVENTION CENTER -B1- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN
FPS
O17203-F-SP-07-PL-0004 - CONVENTION CENTRE - BASEMENT 1 - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
O17203-F-SP-07-FA-0005 - CONVENTION CENTRE - BASEMENT 1 - OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES
HVAC
O17203-V-SP-07-AC-1002,2002,3002,4002,5002 & 6002 - CONVENTION CENTRE BASEMENT B1 - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT
PHE
O17203-U-SP-07-IP-0006 TO 0010 - PLUMBING SYSTEM LAYOUT - BASEMENT 1 - TOILET WATER SUPPLY LAYOUT
ELV
O17203-L-SP-07-LV-1902-CONVENTION CENTRE-BASEMENT 1-OVER ALL ELV SYSTEM LAYOUT
DATA AND VOICE
O17203-L-SP-07-DV-2902-CONVENTION CENTRE-BASEMENT 1-OVER ALL DATA & VOICE LAYOUT

LEGEND

SL.NO.		DESCRIPTION	QTY	INFRA PROVISION
1		6 COLOUR X-RAY SCANNER	05	02
2		MULTIZONE DFMD	04	02
3		HHMD	05	-
4	IP TALK BACK	IP TALK BACK SYSTEM	03	02
5	*	KIOSK VISITOR MANAGEMENT *	-	01
6	*	TICKET DISPENSER *	-	01
7	*	24 INCH DISPLAY *	-	01
8	*	MILLIMETER WAVE BODY SCANNER *	-	01

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Department of Industrial Policy and Promotion Ministry of Commerce & Industry Government of India

Knowledge Partner
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Engineering Design and Research Center (EDRC)
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egis — Egis India Consulting Engineers Pvt. Ltd.
Plot No. 66, Sector 32, Institutional Area, Opp. Zenotix Solutions, Gurugram, Haryana 122001

ICT Proof Consultant
CKR — CKR Consulting Engineers Pvt. Ltd.
A-411, 3rd Floor, Nalapaga Arcade, Subbaramachetty Road, Nehlakapa Circle, Basavanagudi, Bengaluru - 560004

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	20.11.20	PME	SS	IV	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GE		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	6300	R0

Key Plan

Title :
CONVENTION CENTER-BASEMENT 1-
SECURITY CHECK EQUIPMENTS

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-LV-6300	AS INDICATED	A0

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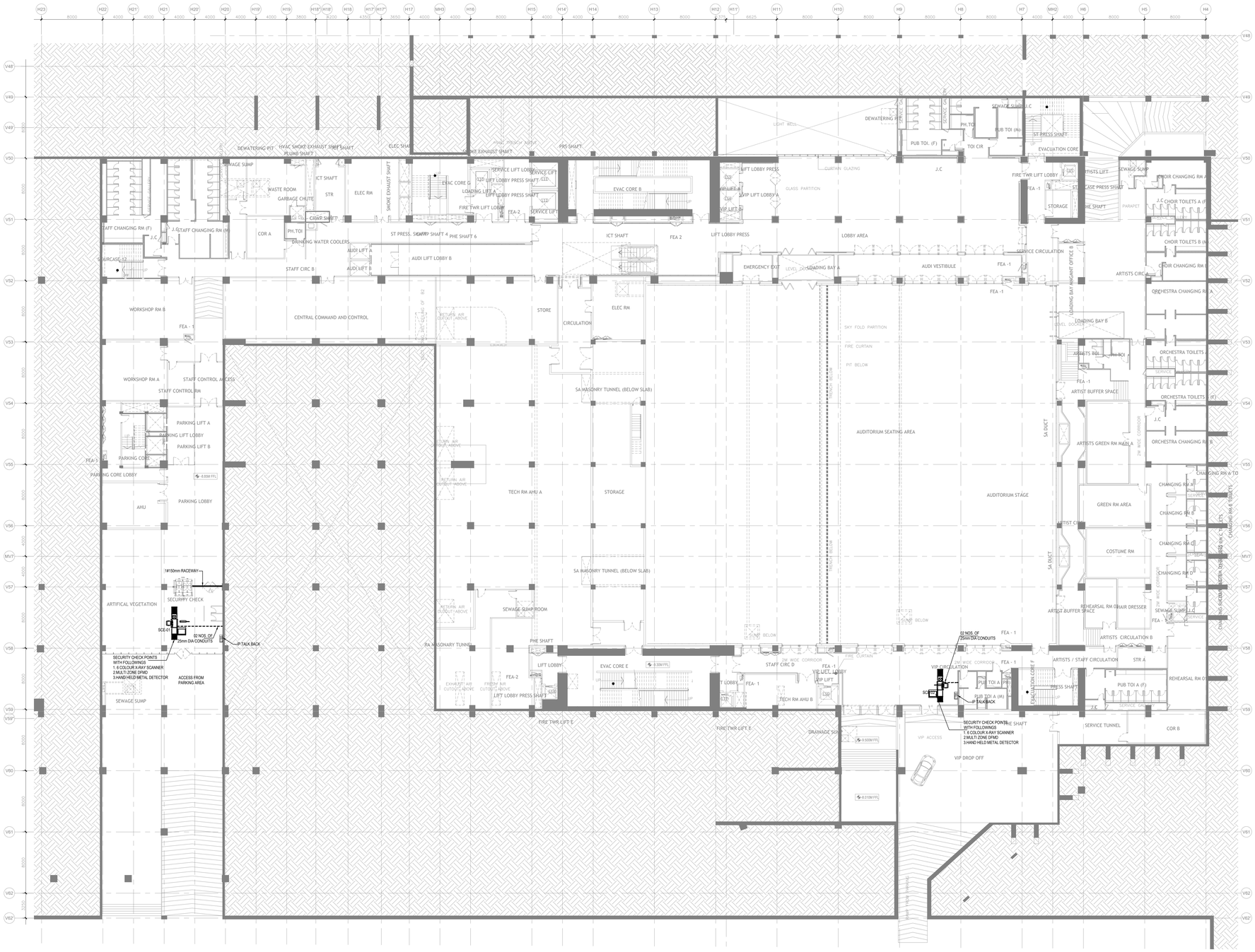
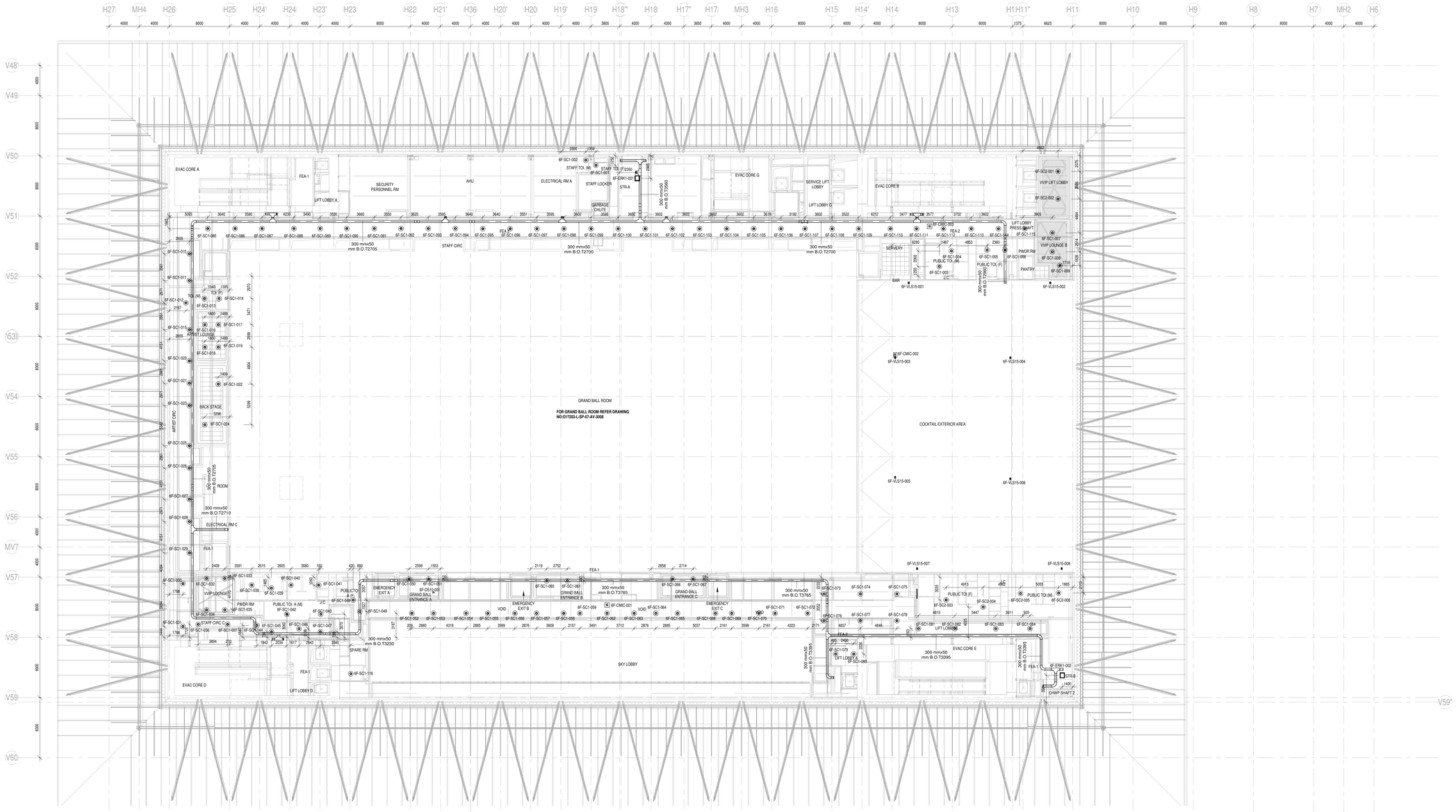
O17203 -6300_1 (CONVENTION CENTRE-BASEMENT 1-SECURITY CHECK EQUIPMENTS)


SECURITY CHECK
SECURITY CHECK POINTS WITH FOLLOWINGS
1. 6 COLOUR X-RAY SCANNER
2.MULTI ZONE DFMD
3.HAND HELD METAL DETECTOR
ACCESS FROM PARKING AREA
IP TALK BACK
02 NOS. OF 25mm DIA CONDUITS
1#150mm RACEWAY
ARTIFICAL VEGETATION
SEWAGE SUMP
CENTRAL COMMAND AND CONTROL
WORKSHOP RM B
WORKSHOP RM A
STAFF CONTROL ACCESS
STAFF CONTROL RM
PARKING LIFT A
PARKING LIFT LOBBY
PARKING LIFT B
PARKING CORE
PARKING CORE LOBBY
PARKING LOBBY
AHU
STAFF CHANGING RM (F)
STAFF CHANGING RM (M)
STAFF CIRC B
WASTE ROOM
GARBAGE CHUTE
DRINKING WATER COOLERS
ICT SHAFT
STR
ELEC RM
COR A
AUDI LIFT LOBBY B
AUDI LIFT A
AUDI LIFT B
STORE
CIRCULATION
SA MASONRY TUNNEL (BELOW SLAB)
TECH RM AHU A
STORAGE
SEWAGE SUMP ROOM
RA MASONRY TUNNEL
PHE SHAFT
LIFT LOBBY
EVAC CORE E
LIFT LOBBY PRESS SHAFT
FEA-2
FIRE TWR LIFT E
EVAC CORE B
LIFT LOBBY PRESS
LOBBY AREA
EMERGENCY EXIT
LOADING BAY A
AUDI VESTIBULE
AUDITORIUM SEATING AREA
AUDITORIUM STAGE
SKY FOLD PARTITION
FIRE CURTAIN
PIT BELOW
STAFF CIRC D
TECH RM AHU B
DRAINAGE SUMP
VIP ACCESS
VIP DROP OFF
SERVICE TUNNEL
COR B
ARTISTS / STAFF CIRCULATION
REHEARSAL RM D
PUB TOI A (F)
PUB TOI A (M)
ARTIST BUFFER SPACE
REHEARSAL RM D
COSTUME RM
GREEN RM AREA
ARTISTS GREEN RM MAIN A
LOADING BAY B
SERVICE CIRCULATION
EVACUATION CORE
ORCHESTRA CHANGING RM A
ORCHESTRA CHANGING RM B
ORCHESTRA TOILETS
CHANGING RM A
CHANGING RM B
CHANGING RM C
CHANGING RM D
CHANGING RM A TO
CHOIR CHANGING RM A
CHOIR TOILETS A (F)
CHOIR TOILETS B (M)
CHOIR CHANGING RM B
ARTISTS CIRC A
ARTISTS CIRCULATION B
STR A
SA DUCT
24 WIDE CORRIDOR
EXHAUST AIR OUTLET ABOVE
FRESH AIR OUTLET ABOVE
RETURN AIR OUTLET ABOVE
FIRE CURTAIN
SERVICE CIRCULATION
LOADING BAY BREAKOUT OFFICE
LOADING BAY B
LEVEL DOCKS
ARTISTS CIRC B
ARTISTS TOI
SERVICE
ORCHESTRA TOILETS (F)
ORCHESTRA TOILETS (M)
CHANGING RM A TO
CHANGING RM B TO
CHANGING RM C TO
CHANGING RM D TO



1 / 3059 CC_F6_BGM PLAN LAYOUT
1 : 200

NOTES

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
2. EXACT ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH ENGINEERING IN CHARGE TO SUIT SITE CONDITIONS
3. PVC CONDUIT SHALL BE USED FOR EMBEDDED APPLICATION AND MS CONDUIT USED FOR OPEN APPLICATION
4. CONDUITS SHALL BE CONCEALED IN WALL/CEILING IN NON-FALSE CEILING AREA.
5. SUSPENDED CONDUITS ARE TO BE USED, IF MORE THAN 3 CONDUITS RUN IN PARALLEL
6. CONDUITS SHOULD BE EQUIPPED WITH A PULL CORDS WITH SUITABLE TENSION POWER.
7. PULL BOXES WITH SUITABLE SIZE SHOULD BE PROVIDED IN ALL PVC CONDUIT SECTIONS THAT ARE CONTAINING MORE THAN TWO 90 DEGREE BENDS.
8. ALL DEVICES LOCATIONS AND ORIENTATION ARE INDICATIVE. EXACT LOCATION SHALL BE SHOWN IN THE OEM SHOP DRAWING.
9. THE EXACT CONDUIT/TRAY ROUTING SHALL BE DECIDED AT SITE IN CONSULTATION WITH THE ENGINEER INCHARGE TO SUIT LEVEL AND SITE CONDITION.
10. A MINIMUM SEPARATION DISTANCE 300MM SHALL BE MAINTAINED BETWEEN ICT CABLING
11. THIS DRAWING IS ONLY INDICATIVE AND MAY VARY ACCORDING TO SITE CONDITION AND REQUIREMENT.
12. PATHWAYS (CABLE TRAY/RACEWAY/CONDUITS)

TAGGING

CC 6F SC1
- CEILING SPEAKER
- SIXTHFLOOR
- CONVENTION CENTER

CC 6F SC2
- CEILING SPEAKER
- SIXTHFLOOR
- CONVENTION CENTER

CC 6F ERK
- EQUIPMENT RACK
- SIXTHFLOOR
- CONVENTION CENTER

AUDIO EQUIPMENTS LEGEND

SR.NO	SYMBOL	DEVICE ID	Tender Spec. No.	DESCRIPTION	MOUNTING HEIGHT	QTY.
1	C	SC2	96	4" Low Profile 2 way Ceiling SPK.	CEILING MOUNTED	6
2	C	SC1	94	High Profile 5" Ceiling SPK.	CEILING MOUNTED	116
3		ERK1		EQUIPMENT RACK	FLOOR MOUNTED	2
4	C	CMIC	109	Noise Compensation Microphone	CEILING/POLE MOUNTED	3
5		DS10		PAGING STATION	DESK MOUNTED	1
6		VLS 15		PASSIVE COLOUMN ARRAY LOUD SPEAKER	2400 FROM FFL	08

REFERENCE DRAWING

ARCHITECTURE
FLOOR PLANS APPROVED VIA TRANSMITTAL NO EDRC-B&F/O17203/01346
STRUCTURE
O17203-C-SP-07-NU-0007 - LAYOUT AND NUMERATION DETAIL OF LEVEL - F4 (+18.520M)

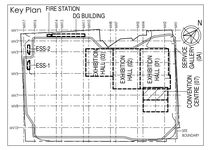
ELECTRICAL
O17203-E-SP-07-LL-0046 - CONVENTION CENTER - THIRD FLOOR 3F - LIGHTING LAYOUTS
O17203-E-SP-07-PL-0154 - CONVENTION CENTER - THIRD FLOOR 3F - POWER LAYOUTS
O17203-E-SP-07-EE-0258 -CONVENTION CENTER -3F- ELECTRICAL EQUIPMENT, CABLE TRAY & EARTHING LAYOUT - OVERALL PLAN

ELV
O17203-L-SP-07-LV-1600 - CONVENTION CENTER -6F- OVER ALL ELV SYSTEM LAYOUT

FPS
O17203-F-SP-07-PL-0019 -CONVENTION CENTRE - 3F - OVER ALL PLAN: LAYOUT OF WETRISER CUM DOWNCOMER, AUTOMATIC SPRINKLER SYSTEM AND PORTABLE FIRST-AID FIRE EXTINGUISHERS
17203-F-SP-07-FA-0020 - CONVENTION CENTRE - 3F- OVER ALL PLAN: LAYOUT OF INTEGRATED INTELLIGENT ADDRESSABLE FIRE DETECTION & ALARM SYSTEM AND PHOTOLUMINESCENT SAFETY SIGNAGES

HVAC
O17203-V-SP-07-AC-0026 CONVENTION CENTRE THIRD FLOOR 3F - HVAC EQUIPMENT DUCTING AND PIPING LAYOUT

PHE
O17203-U-SP-07-IP-0070 to 0073 - PLUMBING SYSTEM LAYOUT -THIRD FLOOR 3F- TOILET WATER SUPPLY LAYOUT



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Certification

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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	25.02.25	BVH	SM	MSK	GNR

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			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 CONVENTIONAL & EXPO CENTRE
SECTOR 25,DWARKA,NEW DELHI,INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
L	07	3059	R0

Title :
CONVENTION CENTER-SIXTH FLOOR BACKGROUND MUSIC LAYOUT

EDRC DWG No :	Scale	Sheet Size
O17203-L-SP-07-PA-3059	AS INDICATED	A0

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O17203 - L - 07 - 3059 (R0 BGM PLAN LAYOUT)