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No.	DESCRIPTION	DATE
A	ISSUED FOR 50% SUBMISSION	2024-11-19
B	ISSUED FOR 75% SUBMISSION	2024-12-13
C	ISSUED FOR 95% SUBMISSION	2025-02-03
D	ISSUED FOR 100% SUBMISSION / PERMIT	2025-02-07

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PROJECT
OFFICE MODERNIZATION FOR TORONTO WATER OFFICE
 95 THE ESPLANADE
 Toronto, ON M5E 1Y8

PROJECT NO:
148121

DRAWN BY: I. TUNG	CHECKED BY: T. SHEN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: M. BOJIC

SHEET TITLE
ELECTRICAL LEGEND

SHEET NUMBER E0001	ISSUE D
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POWER	
SYMBOL	DESCRIPTION
	COMBINATION MAGNETIC STARTER
	MAGNETIC STARTER
	DIRECT CONNECTION TO EQUIPMENT
	DISCONNECT SWITCH - NON-FUSIBLE
	FUSED DISCONNECT SWITCH
	MANUAL STARTER
	JUNCTION BOX
	RELAY
	MOTOR - SINGLE PHASE
	MOTOR - 3 PHASE
	MOTOR - 3 PHASE WITH NON-FUSIBLE DISCONNECT
	START/STOP PUSHBUTTON FOR POWER
	CONTROL PANEL
	MAN HOLE
	HAND HOLE
	PULL BOX
	HEAT TRACING
	PUSH BUTTON FOR POWER
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE
	SPLIT CIRCUIT DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	FURNITURE FEED

DESIGNATIONS FOR RECEPTACLES	
C	CEILING
D	DEPRESSED WITH FLOOR SLAB/ACCESS FLOOR
F	FURNITURE MTD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
S	MOUNTED ON SURFACE OF FLOOR
U	UNDERFLOOR
WP	WEATHERPROOF

TRANSFORMER & PANELBOARD IDENTIFICATION	
	PLUG-IN BUSWAY WITH TAP BOX
	BUS PLUG DISCONNECT
	PAD MOUNT TRANSFORMER
	SUSPENDED TRANSFORMER
	PANELBOARD

1. EQUIPMENT DESIGNATION:	
LP	= LIGHTING
PP	= POWER
DP	= DISTRIBUTION
SP	= SWITCHBOARD
SG	= SWITCHGEAR
PDC	= POWER DISTRIBUTION CENTER
MCC	= MOTOR CONTROL CENTER
RP	= RELAY PANEL
MP	= MECHANICAL
TX	= TRANSFORMER
UP	= UPS
MTS	= MANUAL TRANSFER SWITCH

2. VOLTAGE DESIGNATION:	
2	= 120/208V - 3PH
6	= 347/600V - 3PH

3. SYSTEM DESIGNATION:	
N	= NORMAL
E	= EMERGENCY
UA	= UPS #1
UB	= UPS #2

4. FLOOR DESIGNATION:	
1	= FIRST FLOOR
2	= SECOND FLOOR
3	= ROOF

5. PANEL NO. DESIGNATION:	
01	= PANELBOARD #1
02	= PANELBOARD #2
03	= PANELBOARD #3
ETC.	

LIGHTING	
SYMBOL	DESCRIPTION
	NORMAL
	LIFE SAFETY
	CEILING, OR PENDANT MOUNTED LUMINAIRE
	\$ LIGHT SWITCH
DESIGNATIONS FOR LIGHT SWITCHES	
3	- 3-WAY
4	- 4-WAY
D	- DIMMER
K	- KEY OPERATED
MC	- MOMENTARY CONTACT
P	- PILOT LIGHT
OC	- OCCUPANCY SENSOR SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED PHOTO-ELECTRIC CONTROL
	WALL MOUNTED PHOTO-ELECTRIC CONTROL
	EXIT SIGN - CEILING MOUNTED
	EXIT SIGN - WALL MOUNTED
	EMERGENCY LIGHTING BATTERY WITH 2 HEADS
	DOUBLE REMOTE EMERGENCY LIGHTING HEADS
	SINGLE REMOTE EMERGENCY LIGHTING HEADS
	SPACE TYPE FOR LIGHTING CONTROL
	REFER TO SEQUENCE OF OPERATION

GROUNDING	
SYMBOL	DESCRIPTION
	AIR TERMINAL
	GROUND WIRE CONDUCTOR SPLICE
OTHER CONNECTION TYPES AS NOTED	
GP	= GROUND PLATE
GSU	= GROUND STIRRUP
REB	= REBAR
TH	= THERMITWELD
CW	= COMPRESSION WELD
	PIG TAIL CONNECTION
	GROUND ROD
L	DENOTES LIGHTNING PROTECTION
	INSPECTION WELL
	INSPECTION WELL C/W GROUND ROD
	GROUND BUS
	CONDUCTOR DOWN TO BUILDING GROUND LOOP
-----	#4/0 BARE COPPER GROUND GRID CONDUCTOR (UNDER SLAB)
-----	#4/0 BARE COPPER GROUND GRID CONDUCTOR (EMBEDDED IN SLAB)
-----	#4/0 BARE COPPER GROUND LOOP, RISER & JUMPER
-----	GROUND LOOP SERVICE ROOM
-----	LIGHTNING GROUND CONDUCTOR

FIRE ALARM	
SYMBOL	DESCRIPTION
	REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM MANUAL PULL STATION
	PREACTION ABORT
	PREACTION PULL
	CARBON DIOXIDE ABORT
	CARBON DIOXIDE PULL
	FIRE ALARM BELL
	FIRE ALARM BELL w STROBE
	CEILING MOUNTED FIRE ALARM SPEAKER
	WALL MOUNTED FIRE ALARM SPEAKER
	FIRE ALARM HORN
	FIRE ALARM HORN w STROBE
	ACTIVE FIELD DEVICE CONTROL MODULE
	ACTIVE FIELD DEVICE MONITOR MODULE
	END OF LINE DEVICE
	FIRE ALARM RELAY
	FIRE DO NOT ENTER SIGN
	INDIVIDUAL ADDRESSABLE MODULE
	ISOLATOR MODULE
	MAGNETIC DOOR HOLDER
	POST INDICATOR VALVE
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
	SPRINKLER SUPERVISED VALVE
	ZONE ADAPTOR MODULE
	WARNING LIGHT
	STROBE LIGHT
	WARNING LIGHT
	FLAME DETECTOR
	GAS DETECTOR
	HEAT DETECTOR
	SMOKE DETECTOR
	COMBINATION HEAT & SMOKE DETECTOR

SMOKE DETECTORS	
AS	= AIR SAMPLING
P	= PHOTOELECTRIC
I	= IONIZATION
BR	= BEAM RECEIVER
BT	= BEAM TRANSMITTER
ID	= IN DUCT
R	= RELAY BASE
SS	= SINGLE STATION
SB	= SOUNDER BASE
U	= UNDER RAISED FLOOR
WP	= WEATHERPROOF

HEAT DETECTORS	
R	= RATE OF RISE
F	= FIXED
RF	= RATE OF RISE/FIXED COMBO
RC	= RATE COMPENSATION
LHD	= LINEAR HEAT DETECTOR

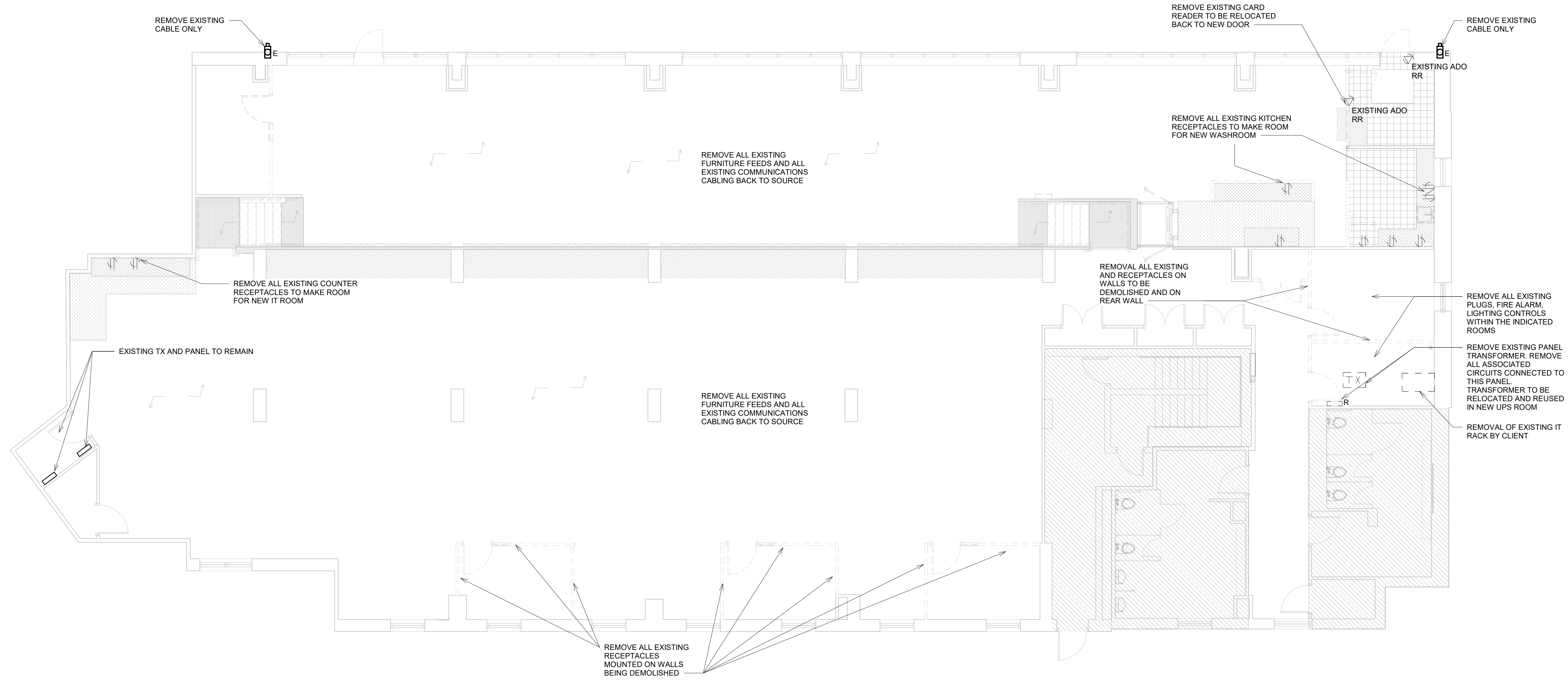
FLAME DETECTORS	
IR	= INFRA RED

GAS DETECTORS	
CO	= CARBON MONOXIDE

COMMUNICATIONS	
SYMBOL	DESCRIPTION
	DESIGNATIONS FOR COMMUNICATION OUTLETS
#	QUANTITY
X	(D: DATA; V: VOICE)
C	CEILING
F	FLOOR MONUMENT
WAP	WIRELESS ACCESS POINT
	AUDIO/VIDEO OUTLET

CCTV	
SYMBOL	DESCRIPTION
	CAMERA

SECURITY	
SYMBOL	DESCRIPTION
	CARD READER
	DOOR CONTACT
	ELECTRIC STRIKE
	GLASS BREAK SENSOR
	KEY PAD
	MOTION DETECTOR
	REQUEST TO EXIT
	PUSH BUTTON
	INTERCOM
M	MASTER
	DOOR ALARM



NOTES:

1. EXISTING FIRE ALARM DEVICES ARE TO REMAIN UNLESS OTHERWISE NOTED
2. REMOVE ALL ITEMS DENOTED WITH AN R TAG OR ARE SHOWN IN DASHED LINES
3. ITEMS NOTED AS RR ARE TO BE REMOVED WITH INTENTION TO BE RELOCATED. EXTEND CONDUIT/WIRE TO SUIT NEW LOCATION INDICATED ON PROPOSED PLAN.
4. REMOVE ALL EXISTING COMMUNICATIONS CABLING THROUGHOUT THE ENTIRE SCOPE AREA. EXISTING CABLE TRAY IN CEILING TO REMAIN.
5. WHEN REMOVING ITEMS FED FROM PANEL IN IT ROOM. IDENTIFY IF LOAD IS TO REMAIN (MECHANICAL LOADS IN CEILING). INVENTORY EXISTING TO REMAIN LOADS AND PROVISION TO FEED FROM EXISTING PANEL IN ELECTRICAL ROOM. CONTRACTOR TO SUBMIT BALANCE OF SPARE CIRCUITS/EXISTING TO REMAIN CIRCUITS AS A SHOP DRAWING WITH SKETCH OF LOCATION OF CIRCUITS, QUANTITY AND SPACE IN PANEL LP-A.
6. REMOVE ALL EXISTING SECURITY DEVICES AT 95 THE ESPLANADE. EXCEPT TWO EXTERIOR CCTV CAMERAS AS INDICATED ON THE LAYOUT DRAWING.
7. REMOVE ALL EXISTING SECURITY DEVICE CABLES AT 95 THE ESPLANADE BACK TO EXISTING SECURITY CABINET LOCATED IN THE IT ROOM AT 105 THE ESPLANADE. COORDINATE WITH CITY OF TORONTO FOR ACCESS TO 105 THE ESPLANADE.

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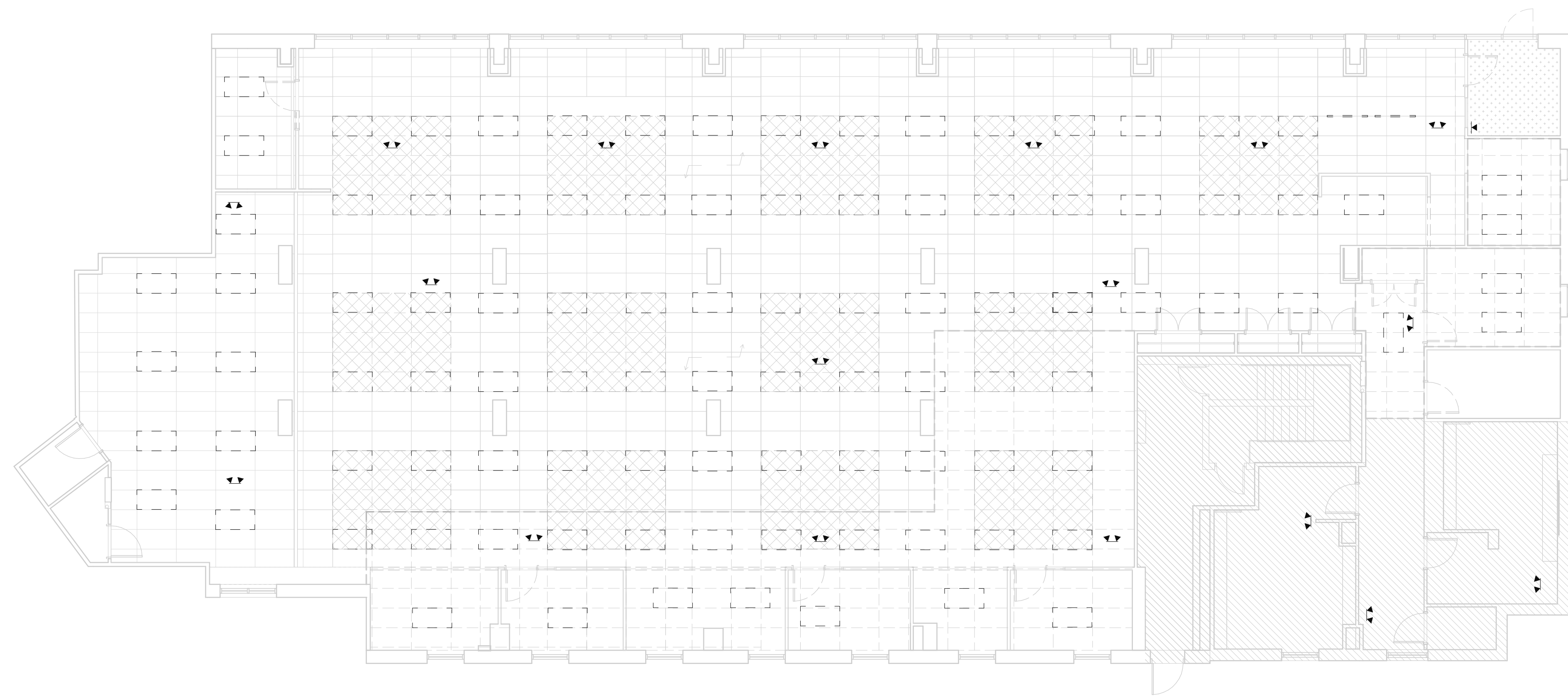
PROJECT NO:
 148121

DRAWN BY: I. TUNG **CHECKED BY:** T. SHEN

PROJECT MGR: F. BOLOURIAN **APPROVED BY:** M. BOJIC

SHEET TITLE
 ELECTRICAL POWER & SYSTEMS DEMOLITION PLAN

SHEET NUMBER E0100 **ISSUE** D



NOTES:

1. REMOVE ALL EXISTING CEILING LIGHT AS INDICATED. REFER TO PROPOSED PLAN FOR NEW LAYOUT. RE-USE CIRCUITS AS AVAILABLE AND NOTED ON PROPOSED PLAN.
2. REMOVE ALL EXISTING EMERGENCY LIGHTING HEADS AND BATTERY PACKS IN THE SPACE. THEY ARE TO BE REPLACED WITH DEDICATED EMERGENCY CIRCUITS FROM A NEW LIGHTING INVERTER BATTERY.
3. REMOVE ALL EXISTING LIGHTING CONTROLS, SWITCHES AND OCCUPANCY SENSORS.
4. REMOVE ALL EXISTING EXIT SIGNS.

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PROJECT NO:
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DRAWN BY: I. TUNG	CHECKED BY: T. SHEN
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: M. BOJIC
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SHEET TITLE
**ELECTRICAL LIGHTING
 DEMOLITION PLAN**

SHEET NUMBER E0200	ISSUE D
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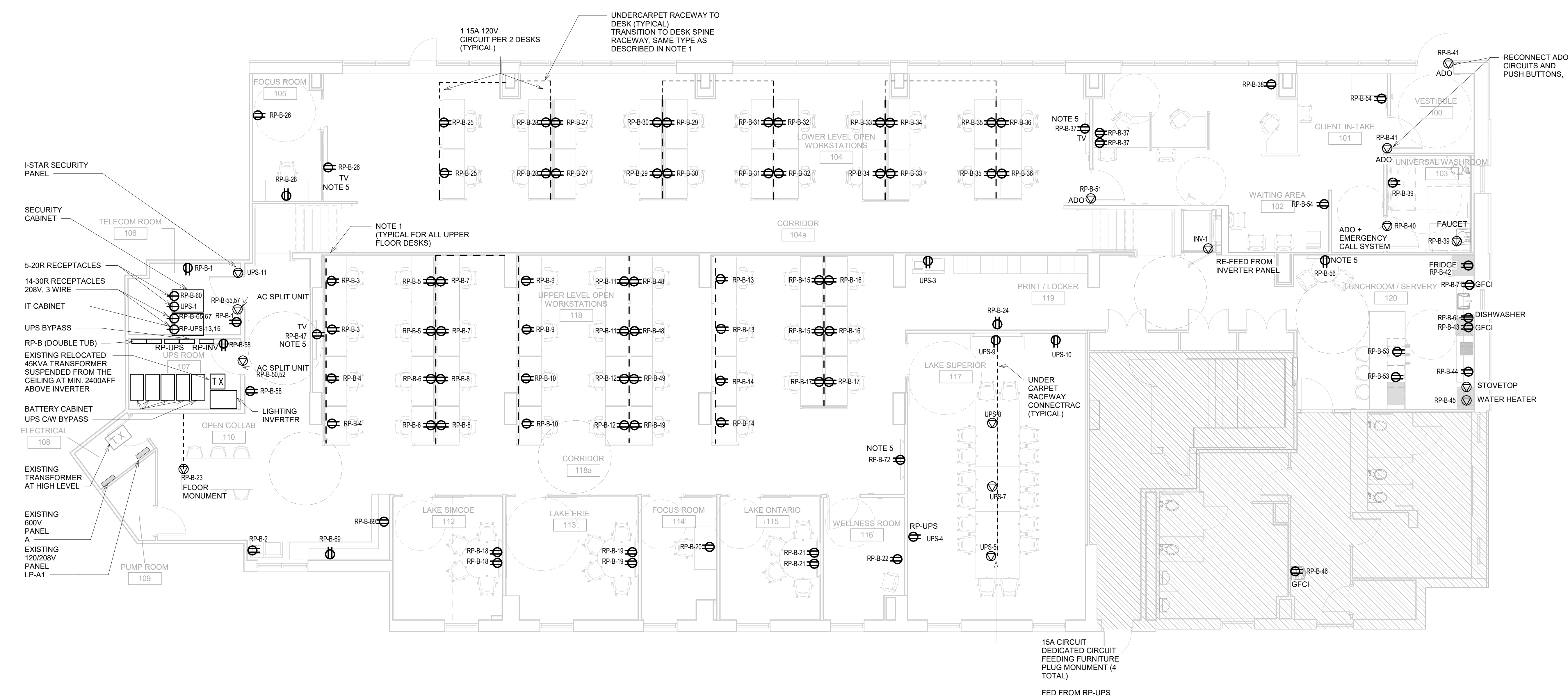
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148121

DRAWN BY: I. TUNG	CHECKED BY: T. SHEN
PROJECT MGR: F. BOLOURIAN	APPROVED BY: M. BOJIC

SHEET TITLE
ELECTRICAL POWER PLAN

SHEET NUMBER E1100	ISSUE D
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- NOTES:**
- PROVIDE 15A CONNECTIONS PER 2 DESKS FROM 120V PANEL. PROVIDE NEW RACEWAY ALONG SPINE OF DESKS WITH INTEGRATED RECEPTACLES AS SHOWN. 2 CIRCUITS PER RACEWAY. DOUBLE SIDES DESKS TO HAVE RACEWAY ON EACH SIDE
 - PROVIDE CONNECTIONS FOR NEW ADOS SHOWN. PROVIDE ROUGH IN AND CABLING FOR NEW PUSH BUTTON LOCATIONS. FOR UNIVERSAL WASHROOM CALL SYSTEM PROVIDE ROUGH IN AND CABLING FOR CONNECTION FOR EACH BUTTON AND ALARM BACK TO CONTROL RELAY. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF PUSH BUTTON LOCATIONS FOR EACH DOOR.
 - CIRCUITS SHOWN ARE FOR GROUPING PURPOSES ONLY. AFTER DEMOLITION CONTRACTOR IS TO DO INVENTORY OF QUANTITY OF ORPHANED CIRCUITS DUE TO DEMO AND RE-FEED CIRCUITS TO EXISTING PANEL IN ELECTRICAL ROOM. INVENTORY OF ORPHANED CIRCUITS AND SPARES CREATED TO BE SUBMITTED AS A SHOP DRAWING. ALL ORPHANED CIRCUITS ARE TO BE FED FROM PANEL LP-A1 IN ELECTRICAL ROOM UNLESS OTHERWISE INDICATED. PROVISION FOR EXTENDING CIRCUITS FOR EXISTING NON-REMOVED CIRCUITS (MECHANICAL FAN COIL UNITS, EXHAUST FANS IN CEILING ETC). REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EXISTING TO REMAIN UNITS.
 - FOR AC SPLIT UNITS, FEED ROOM UNIT AS INDICATED. REFER TO MECHANICAL DRAWING M2102 FOR LOCATION OF CONDENSER UNITS IN PARKING LEVEL. PROVIDE CIRCUITS FOR CONDENSER UNITS FROM EXISTING PANEL IN ELECTRICAL ROOM. PROVISION FOR SCANNING AND NEW PENETRATION FROM ELECTRICAL ROOM TO PARKING LEVEL TO FEED CONDENSER UNITS.
 - PROVIDE EMPTY CONDUIT AND PULL STRING FOR FUTURE TV CONNECTION FROM COMMUNICATIONS ROOM TO EACH TV. TYPICAL FOR 5 TVS SHOWN.

Branch Panel: RP-B

Location: TELECOM ROOM 106
 Supply From:
 Mounting: Recessed
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 10KA
 Mains Type: BREAKER
 Mains Rating: 125 A
 MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
RP-B-1	TELECOM ROOM RECEPTACLES	20 A	1	360 VA	180 VA			1	20 A	PRINTER	RP-B-2	
RP-B-3	WORKSTATION	20 A	1		360 VA	360 VA		1	20 A	WORKSTATION	RP-B-4	
RP-B-5	WORKSTATION	20 A	1			360 VA	360 VA	1	20 A	WORKSTATION	RP-B-6	
RP-B-7	WORKSTATION	20 A	1	360 VA	360 VA			1	20 A	WORKSTATION	RP-B-8	
RP-B-9	WORKSTATION	20 A	1		360 VA	360 VA		1	20 A	WORKSTATION	RP-B-10	
RP-B-11	WORKSTATION	20 A	1			360 VA	360 VA	1	20 A	WORKSTATION	RP-B-12	
RP-B-13	WORKSTATION	20 A	1	360 VA	360 VA			1	20 A	WORKSTATION	RP-B-14	
RP-B-15	WORKSTATION	20 A	1		360 VA	360 VA		1	20 A	WORKSTATION	RP-B-16	
RP-B-17	WORKSTATION	20 A	1			360 VA	360 VA	1	20 A	MEETING ROOM 112 RECEPTACLES	RP-B-18	
RP-B-19	MEETING RM 113 RECEPTACLES	20 A	1	360 VA	180 VA			1	20 A	FOCUS ROOM 114 RECEPTACLES	RP-B-20	
RP-B-21	MEETING ROM 115 RECEPTACLES	20 A	1		360 VA	180 VA		1	20 A	BREAKOUT ROOM 116 RECEPTACLES	RP-B-22	
RP-B-23	OPEN COLLAB FLOOR BOX	20 A	1			500 VA	180 VA	1	20 A	CORRIDOR 119 CONVENIENCE RCPT	RP-B-24	
RP-B-25	WORKSTATION	20 A	1	360 VA	540 VA			1	20 A	FOCUS ROOM 105 RECEPTACLES	RP-B-26	
RP-B-27	WORKSTATION	20 A	1		360 VA	360 VA		1	20 A	WORKSTATION	RP-B-28	
RP-B-29	WORKSTATION	20 A	1			360 VA	360 VA	1	20 A	WORKSTATION	RP-B-30	
RP-B-31	WORKSTATION	20 A	1	360 VA	360 VA			1	20 A	WORKSTATION	RP-B-32	
RP-B-33	WORKSTATION	20 A	1		360 VA	360 VA		1	20 A	WORKSTATION	RP-B-34	
RP-B-35	WORKSTATION	20 A	1			360 VA	360 VA	1	20 A	WORKSTATION	RP-B-36	
RP-B-37	WORKSTATION	20 A	1	540 VA	180 VA			1	20 A	WAITING AREA FRONT DESK RCPT	RP-B-38	
RP-B-39	UNIVERSAL WASHROOM	20 A	1		180 VA	200 VA		1	20 A	EMERGENCY WASHROOM ADO	RP-B-40	
RP-B-41	FRONT ENTRANCE ADO	20 A	1			200 VA	180 VA	1	20 A	FRIDGE RECEPTACLE	RP-B-42	
RP-B-43	KITCHEN COUNTERTOP	20 A	1	180 VA	180 VA			1	20 A	KITCHEN COUNTERTOP	RP-B-44	
RP-B-45	WATER HEATER	20 A	1		1000...	180 VA		1	20 A	WASHROOM CORRIDOR FOUNTAIN	RP-B-46	
RP-B-47	RCT	20 A	1			180 VA	360 VA	1	20 A	WORKSTATION	RP-B-48	
RP-B-49	WORKSTATION	20 A	1	360 VA	2900...			2	40 A	UPS ROOM AC UNIT	RP-B-50	
RP-B-51	WAITING AREA ADO	20 A	1		200 VA	2900...		1	20 A	CLIENT INTAKE RECEPTACLES	RP-B-54	
RP-B-53	KITCHEN ISLAND RECEPTACLES	20 A	1			360 VA	360 VA	1	20 A	KITCHEN CONVENIENCE RCPT	RP-B-56	
RP-B-55		20 A	1	2900...	180 VA			1	20 A	UPS ROOM CONVENIENCE RCPT	RP-B-58	
RP-B-57	TELECOM ROOM AC UNIT	40 A	2		2900...	360 VA		1	20 A	RCT	RP-B-60	
RP-B-59						2000...		1	20 A	LOWER LEVEL LIGHTING	RP-B-62	
RP-B-61	RCT	20 A	1	180 VA	1479...			1	20 A	SMALL MEETING ROOMS LIGHTING	RP-B-64	
RP-B-63	UPPER LEVEL LIGHTING	20 A	1		1847...	397 VA		1	20 A		RP-B-66	
RP-B-65	IT RACK RECEPTACLE	30 A	2	1000...	800 VA		1000...	800 VA	3	15 A	INVERTER	RP-B-70
RP-B-67		20 A	1		360 VA	800 VA					RP-B-72	
RP-B-69	RCT	20 A	1			180 VA	180 VA	1	20 A	RCT		
RP-B-71	RCT	20 A	1									
				Total Load:	14739 VA	15155 VA	10028 VA					
				Total Amps:	129 A	132 A	84 A					

Legend:

Notes:

Receptacle Panel: RP-INV

Location: TELECOM ROOM 106
 Supply From:
 Mounting: Recessed
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 14KA
 Mains Type:
 Mains Rating: 60 A
 MCB Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
INV-1	ELEVATOR	20 A	1	300 VA	48 VA			1	20 A	VESTIBULE LIGHTING	INV-2
INV-3	EXIT LIGHTING	20 A	1		55 VA	748 VA		1	20 A	UPPER LEVEL LIGHTING	INV-4
INV-5	LOWER LEVEL LIGHTING	20 A	1			572 VA	393 VA	1	20 A	CONFERENCE ROOM LIGHTING	INV-6
INV-7											INV-8
INV-9											INV-10
INV-11											INV-12
INV-13											INV-14
INV-15											INV-16
INV-17											INV-18
INV-19											INV-20
INV-21											INV-22
INV-23											INV-24
				Total Load:	348 VA	803 VA	941 VA				
				Total Amps:	3 A	7 A	8 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	1584 VA	100.00%	1584 VA	Total Conn. Load: 2071 VA
Other	0 VA	0.00%	0 VA	
Power	300 VA	100.00%	300 VA	Total Est. Demand: 2107 VA
Exit Lighting	55 VA	100.00%	55 VA	Total Conn. Current: 6 A
LITES	153 VA	125.00%	191 VA	Total Est. Demand Current: 6 A

Notes:

Receptacle Panel: RP-UPS

Location: TELECOM ROOM 106
 Supply From:
 Mounting: Recessed
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 10KA
 Mains Type:
 Mains Rating: 100 A
 MCB Rating: 100 A

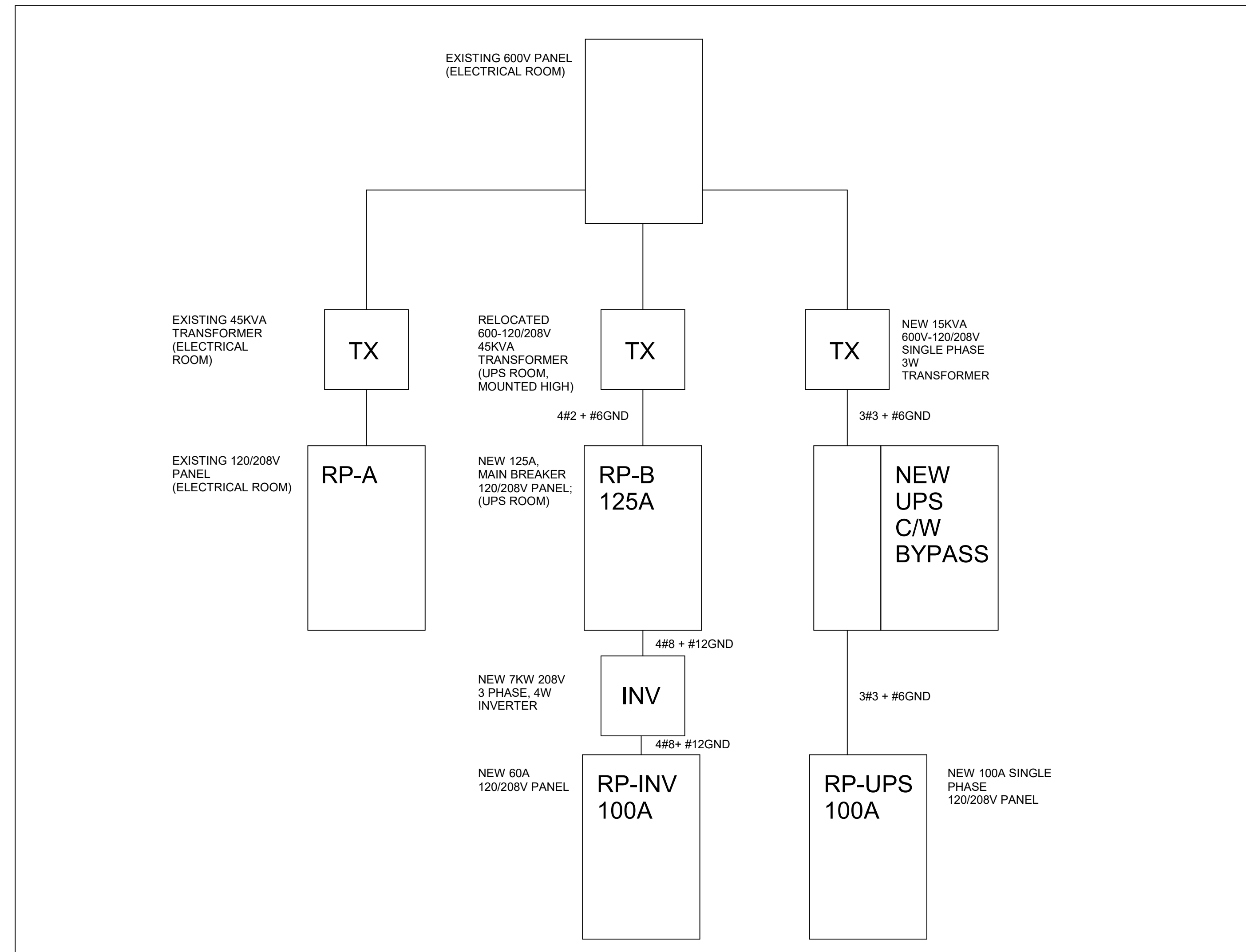
Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
UPS-1	SECURITY RACK RECEPTACLE	20 A	1	2000 VA						UPS-2	
UPS-3	PRINTER	20 A	1		180 VA	180 VA		1	20 A	MEETING ROOM 117 RECEPTACLES	UPS-4
UPS-5	CONFERENCE ROOM FLOOR BOX	20 A	1			500 VA					UPS-6
UPS-7	CONFERENCE ROOM FLOOR BOX	20 A	1	500 VA	500 VA			1	20 A	CONFERENCE ROOM FLOOR BOX	UPS-8
UPS-9	MEETING ROOM 117 RECEPTACLES	20 A	1		180 VA	180 VA		1	20 A	MEETING ROOM 117 RECEPTACLES	UPS-10
UPS-11	SECURITY I-STAR PANEL	20 A	1			500 VA					UPS-12
UPS-13											UPS-14
UPS-15											UPS-16
UPS-17											UPS-18
UPS-19											UPS-20
UPS-21											UPS-22
UPS-23											UPS-24
UPS-25											UPS-26
UPS-27											UPS-28
UPS-29											UPS-30
UPS-31											UPS-32
UPS-33											UPS-34
UPS-35											UPS-36
UPS-37											UPS-38
UPS-39											UPS-40
UPS-41											UPS-42
				Total Load:	2946 VA	720 VA	1000 VA				
				Total Amps:	25 A	6 A	9 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	2000 VA	100.00%	2000 VA	Total Conn. Load: 4627 VA
RCT	2720 VA	100.00%	2720 VA	
				Total Est. Demand: 4627 VA
				Total Conn. Current: 13 A
				Total Est. Demand Current: 13 A

Notes:



1 SINGLE LINE DIAGRAM
 NTS

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PROJECT
OFFICE MODERNIZATION FOR TORONTO WATER OFFICE
 95 THE ESPLANADE
 Toronto, ON M5E 1Y8

PROJECT NO:
 148121

DRAWN BY:
 I. TUNG

CHECKED BY:
 T. SHEN

PROJECT MGR:
 F. BOLOURIAN

APPROVED BY:
 M. BOJIC

SHEET TITLE
ELECTRICAL POWER PANEL SCHEDULES

SHEET NUMBER

E 1200

ISSUE

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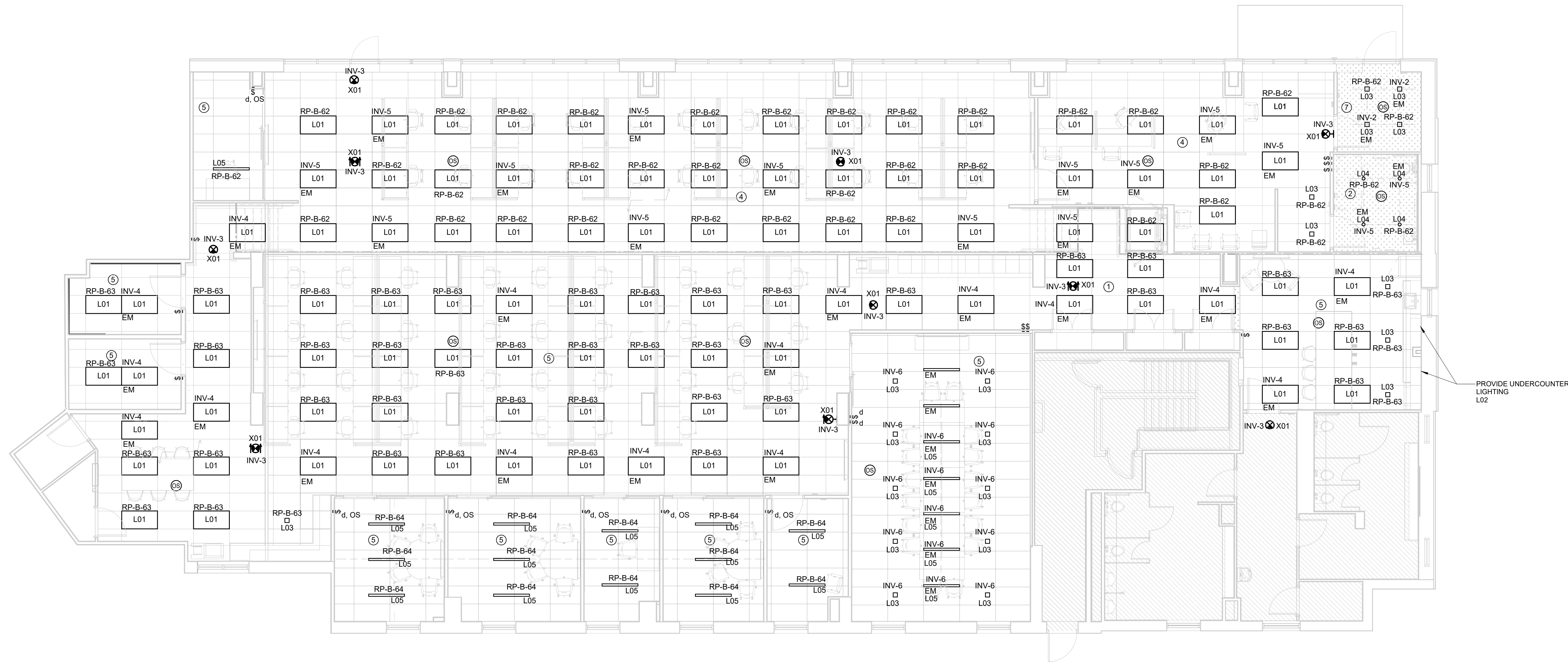
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SHEET TITLE
ELECTRICAL LIGHTING PLAN

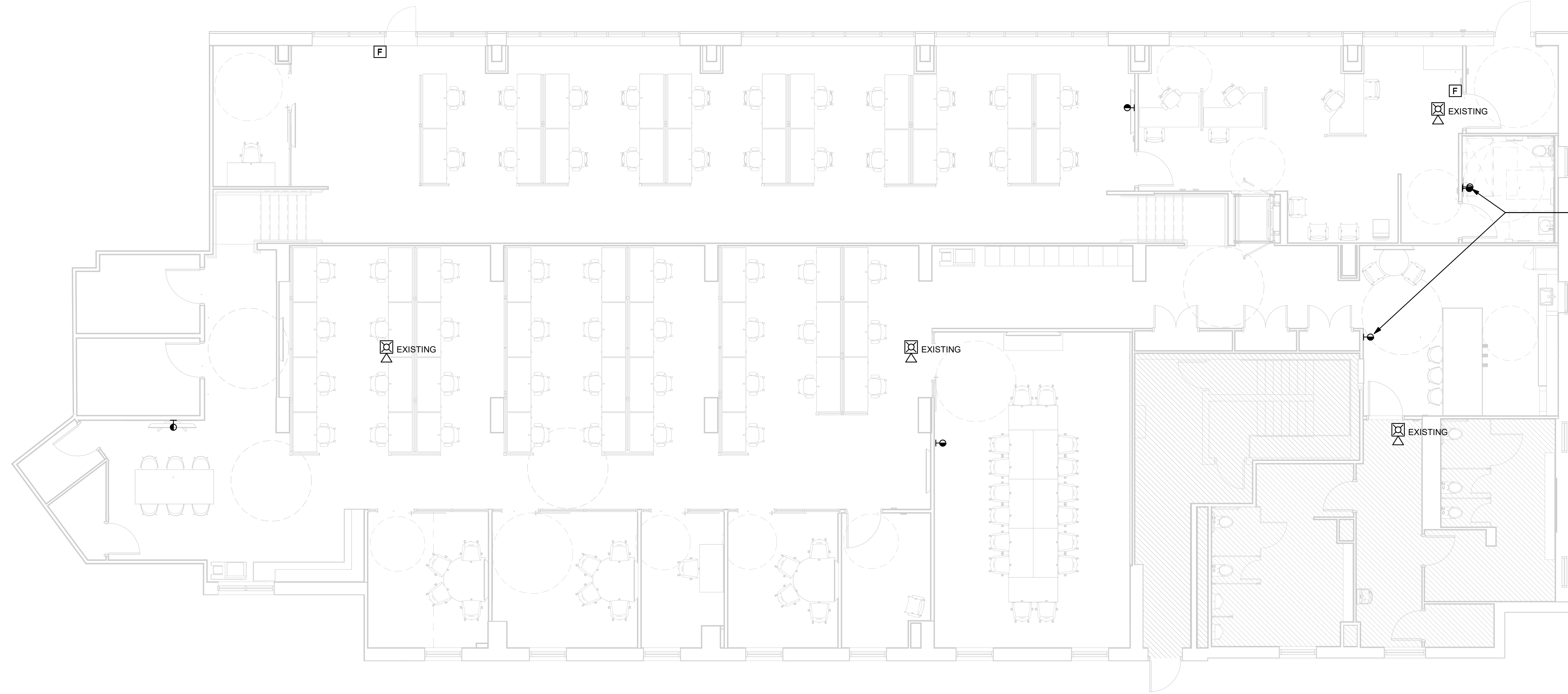
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NOTES:

1. PROVIDE LUMINAIRE FIXTURES AS SHOWN. REFER TO LUMINAIRE SCHEDULE FOR LIGHTING TYPES AND MOUNTING INFORMATION
2. ALL EMERGENCY FIXTURES ARE DENOTED WITH "EM" SYMBOL. THESE FIXTURES ARE FED FROM PANEL LP-INV LOCATED IN THE UPS ROOM. LIGHTING INVERTER IS SIZED SO THAT ALL EMERGENCY FIXTURES ARE TO RUN FOR 4 HOURS UNDER FULL LOAD.
3. CONNECT NEW GREEN RUNNING MAN EXIT SIGNS TO LP-INV
4. LIGHTING CONTROL ZONES ARE AS INDICATED, REFER TO LIGHTING SEQUENCE OF OPERATION SPECIFICATION SECTION

Lighting Fixture Schedule			
ID Type Mark	Voltage	MODEL	Description
L01	120 V	SIGNIFY DAYBRITE 2SBP4060L&CSP-4-UN3-DIM or equivalent	2x4 RECESSED LED LIGHT PANEL 5000 LUMENS, 39W, 3500K, 120V OR APPROVED EQUAL
L02	120 V	LUMENWERX VIA 3 SURFACE, VIA3S-D-LGO-FH-SW-80CRI-750-35K-120	SURFACE MOUNT LINEAR LED, 3500K, ALUMINIUM, BLACK, LOW GLARE OPTIC, LENGTH PER DRAWING, MEDIUM OUTPUT
L03	120 V	ZUMTOBEL CARDAN MEDIUM	SQUARE LED DOWNLIGHT, 3500K, TRM, SW, 24W, GIMBLE MOUNT, 1 HEAD, SQUARE, WIDE FLOOD, WHITE
L04	120 V	LUMENWERX ENCANA: EC4RR-TRM-SW-OF-ACB-120-20-D1-80CRI-35K	ROUND LED DOWNLIGHT, RECESSED, FLUSH, 4000 LUMEN, 50 DEGREE, WHITE, TRIM
L05			SURFACE MOUNT LINEAR LED, 3500K, ALUMINUM, BLACK, LOW GLARE OPTIC, 4FT LENGTH, MEDIUM OUTPUT
X01	120 V	LUMACELL LS SERIES	GREEN RUNNING MAN EXIT SIGN, 120V, FACING TO SUIT LOCATION



NOTES:

1. EXISTING FIRE ALARM DEVICES IN EXISTING CEILINGS ARE TO REMAIN AND BE RE-VERIFIED UPON COMPLETION OF PROJECT SCOPE.
2. PROVIDE NEW FIRE ALARM DEVICES AS INDICATED ON PLAN. TIE INTO EXISTING CIRCUITS AS APPROPRIATE
3. EXISTING MAIN FIRE ALARM PANEL IS WITHIN THE BASE BUILDING. CONTRACTOR TO COORDINATE WITH OWNER FOR ACCESS.

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SHEET TITLE
**ELECTRICAL FIRE ALARM
 PLAN**

SHEET NUMBER
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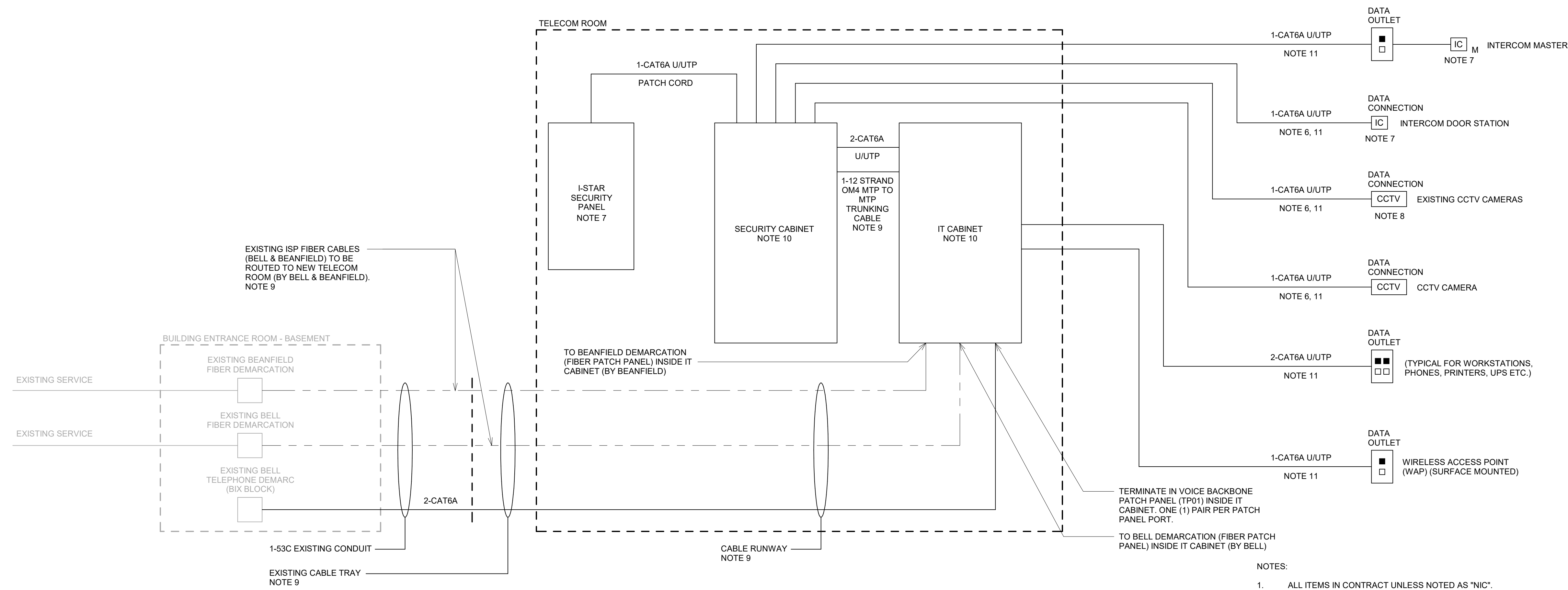
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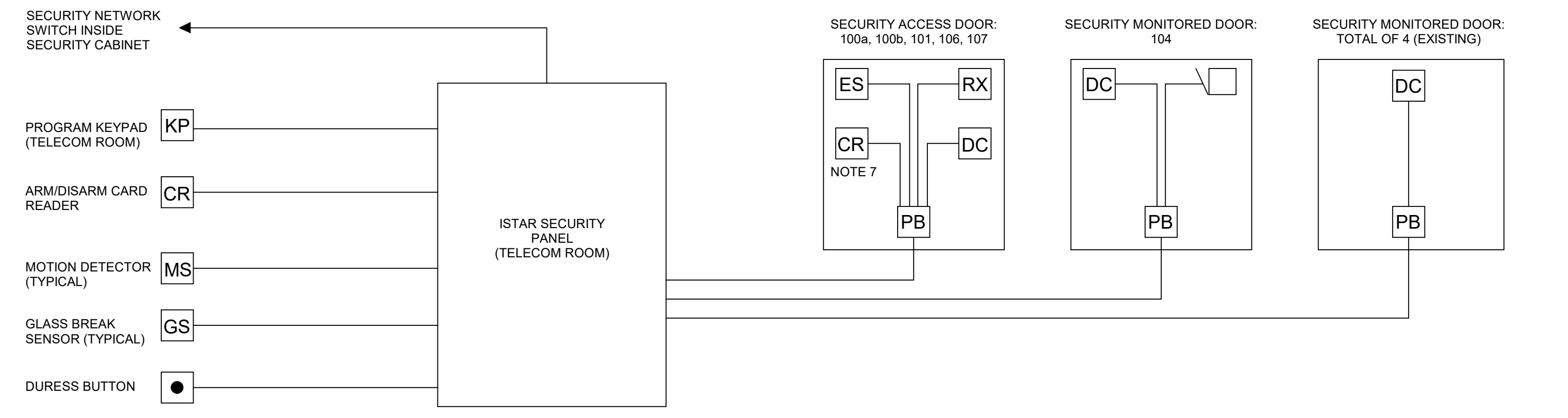
SHEET TITLE
ELECTRICAL AUXILIARY RISER DIAGRAMS

SHEET NUMBER E4001	ISSUE D
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1 TELECOM STRUCTURED CABLING SYSTEM RISER DIAGRAM
 NTS

- NOTES:
- ALL ITEMS IN CONTRACT UNLESS NOTED AS "NIC".
 - DEVICES AND WIRING TOPOLOGY SHOWN SCHEMATICALLY ONLY, ADJUST TO SUIT ACTUAL SYSTEM REQUIREMENT, REFER TO LAYOUT DRAWINGS FOR LOCATIONS AND QUANTITY OF DEVICES.
 - QUANTITY OF ACCESS CONTROL PANELS TO ACCOMMODATE THE NUMBER OF DOORS INDICATED.
 - REFER TO MANUFACTURER(S) SPECIFICATIONS FOR CABLE TYPE & QUANTITIES REQUIRED.
 - TIE SECURITY PANELS INTO CITY SECURITY NETWORK SYSTEM VIA I.T. NETWORK.
 - FOR ALL OUTDOOR/EXTERIOR DEVICES, USE INDOOR/OUTDOOR RATED CABLES. FOR OUTDOOR MOUNTED SECURITY IP/ETHERNET DEVICE, SURGE PROTECTION SHALL BE PROVIDED AND MOUNTED/GROUNDED IN SECURITY CABINET BEFORE PATCHED TO NETWORK SWITCH.
 - TO BE SUPPLIED BY CITY OF TORONTO CORPORATE SECURITY AND INSTALLED BY THE CONTRACTOR.
 - TOTAL OF TWO (2) EXISTING CAMERAS. PROVIDE NEW CABLING.
 - PROVIDE DEDICATED INNERDUCT IN CABLE TRAY FOR EACH ISP FIBER CABLE.
 - CABINETS TO BE SUPPLIED BY CITY OF TORONTO AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL PICK UP THE TWO EXISTING CABINETS FROM NORTH TORONTO WASTE WATER TREATMENT PLANT (STORED IN THE GALLERY NEARBY THE SERVER ROOM), COORDINATE PICK UP SCHEDULE WITH THE CITY DURING CONSTRUCTION.
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- TECHNICAL CONTACT:
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- ONE CABLE PER EACH DATA CONNECTION OR DATA JACK, QUANTITY OF JACKS IN EACH OUTLET AND QUANTITY OF OUTLETS AS PER LAYOUT DRAWINGS. TYPICAL STANDARD WALL/FURNITURE MOUNTED OUTLET FACEPLATE SHALL BE 4 PORTS WITH 2 FOR FUTURE EXPANSION. UN-USED PORT TO BE PROVIDED WITH BLANK COVER.
 - FOR ALL SECURITY DEVICES REQUIRING CAT6A CABLES, EXCEPT THE IP INTERCOM MASTER STATION WHICH NEEDS AN OUTLET WITH PATCH CORD FOR THE DEVICE CONNECTION, REQUIRE A NETWORK CONNECTION ONLY (CABLE WITH RJ45 PLUG TERMINATED), NO OUTLET AND PATCH CORD REQUIRED AT DEVICE END.
- ALL SECURITY CAT6A CABLE SHALL BE TERMINATED WITH CAT6A PATCH PANEL WITH A CAT6A JACK MODULE IN THE SECURITY CABINET END. THE SECURITY PATCH PANEL PORT SHALL BE LABELED ACCORDINGLY WITH THEIR CONNECTED SECURITY DEVICE ID.



2 SECURITY SYSTEM RISER DIAGRAM
 NTS

- LEGEND:
- | | |
|--------------------|-------------|
| CARD READER | DOOR ALARM |
| DOOR CONTACT | INTERCOM |
| ELECTRIC STRIKE | KEYPAD |
| REQUEST TO EXIT | PULL BOX |
| GLASS BREAK SENSOR | PUSH BUTTON |
| MOTION DETECTOR | |

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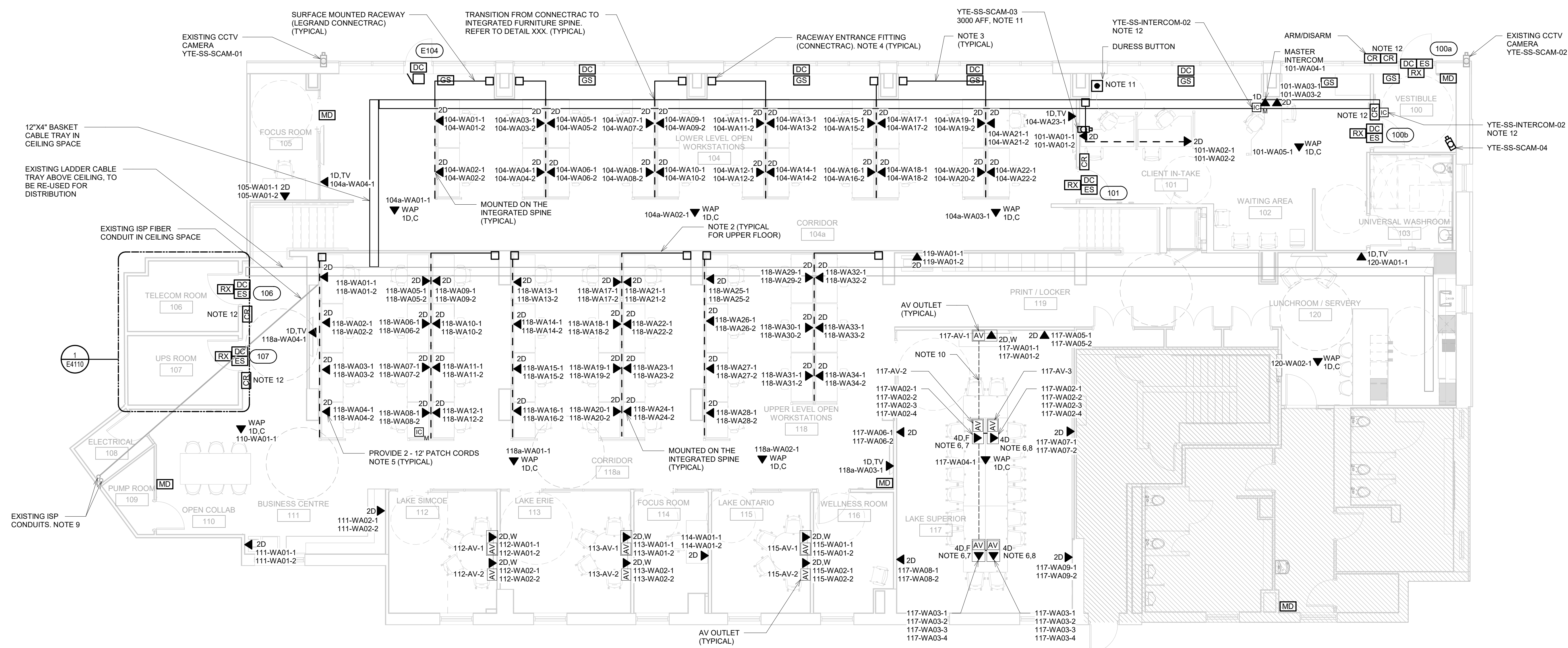
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PROJECT NO:
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. CHAUDHARY

SHEET TITLE
ELECTRICAL AUXILIARY PLAN

SHEET NUMBER E4100	ISSUE D
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- NOTES:**
- PROVIDE DATA DROPS TO EACH DESK AS INDICATED FROM PATCH PANEL IN IT ROOM TO DESK. RUN FROM IT CABINET ALONG EXISTING CABLE TRAY RUN IN CEILING. BRANCH OFF FROM CABLE TRAY TRUNK AND DROP DOWN COLUMNS AS NECESSARY.
 - PROVIDE WIREMOLD RACEWAY HORIZONTALLY ON WALLS ON TOP LEVEL AND ALONG SPINE OF DESKS TO EACH WORKSTATION FOR COMMUNICATIONS CABLING.
 - PROVIDE UNDERCARPET RACEWAY FOR COMMUNICATIONS AND POWER CABLING (WITH DIVIDER) FROM COLUMN TO UNDERSIDE OF DESK.
 - RUN CABLES INSIDE THE COLUMN FROM CEILING SPACE CABLE TRAY.
 - INSTALL 2-12" PATCH CORDS FROM SPINE MOUNTED DATA OUTLET TO TABLE TOP. PATCH CORD TO BE COILED AND LABELLED. LABEL TO MATCH DATA OUTLET ID TAG.
 - PROVIDE CAT6A U/UTP PIGTAILS (SOLID WIRE) BETWEEN FLOOR MONUMENT AND TABLE TOP MONUMENT. THE RJ45 JACK SIDE SHALL BE PLUGGED INTO THE FLOOR MONUMENT DATA OUTLET. THE OTHER SIDE SHOULD BE TERMINATED ON THE TABLE TOP MONUMENT DATA OUTLET (KEYSTONE JACK). PROVIDE CONNECTRAC VERTICAL WIRE MANAGER FOR CABLES FROM FLOOR MONUMENT TO TABLE TOP MONUMENT. BOTH FLOOR MONUMENT OUTLET PORT AND FURNITURE MONUMENT OUTLET PORT SHALL BE LABELLED. THE PIGTAIL CABLE SHALL BE LABELLED BOTH ENDS AS WELL.
 - FLOOR MONUMENT. MANUFACTURER: CONNECTRAC
 - TABLE TOP MONUMENT. MANUFACTURER: LEGRAND INTEGRATE AV TABLE BOX SERIES
 - TWO (2) EXISTING ISP FIBER CONDUITS STUBBED UP FROM FLOOR BELOW (FROM BASEMENT TELECOM DEMARICATION ROOM VIA BASEMENT PARKING GARAGE).
 CONDUIT 1: FROM THE ELECTRICAL ROOM TO EXISTING CABLE TRAY C/W TWO FIBER CABLES (BELL & COGECO/BEANFIELD)
 CONDUIT 2: STOPS INSIDE ELECTRICAL ROOM. ONE EXISTING MULTIPAIR TELEPHONE CABLE ATTACHED TO CONDUIT 1 RUNNING TO EXISTING CABLE TRAY
 - PROVIDE CONNECTRAC ON-FLOOR FLEX RACEWAY SYSTEM FROM THE WALL TO FLOOR MONUMENT.
 - COORDINATE AND CONFIRM FINAL LOCATION WITH THE CITY PRIOR TO ROUGH-IN.
 - TO BE SUPPLIED BY CITY OF TORONTO CORPORATE SECURITY AND INSTALLED BY THE CONTRACTOR.

EZ-PATH SERIES 44+ FIRE-RATED PATHWAY SYSTEM C/W 4 x SERIES 44+ DEVICES. FULL PRODUCT MODEL# EZD44MBS2.

PLYWOOD BACKBOARD NOTE 1, TYPICAL

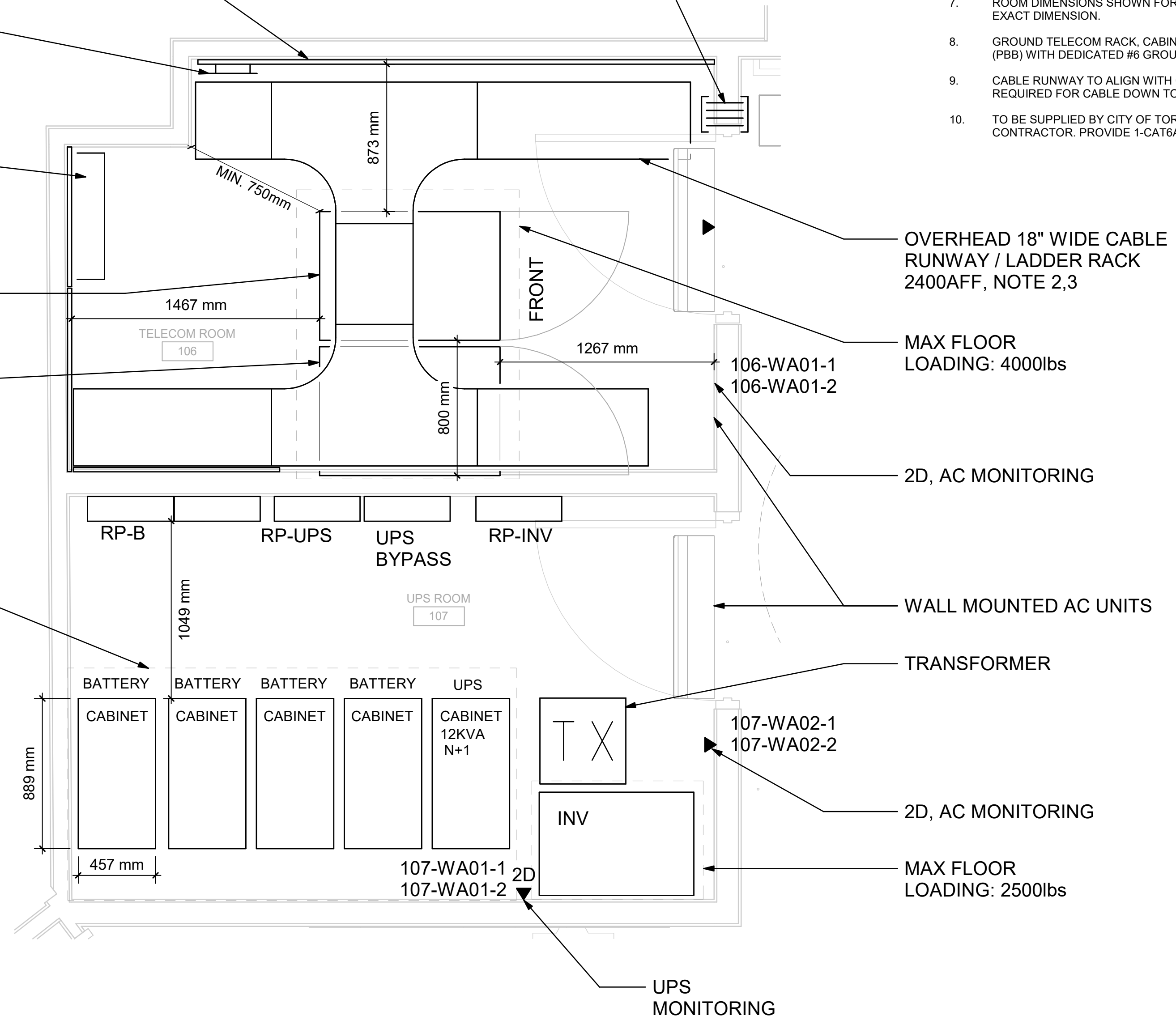
TELECOM PRIMARY BONDING BUSBAR (PBB), 2000AFF. NOTE 8

I-STAR SECURITY PANEL NOTE 10

SECURITY CABINET (44U 762Wx1067Dx2133H) NOTE 4

IT CABINET (44U 762Wx1067Dx2133H) NOTE 4

MAX FLOOR LOADING: 4000lbs



- NOTES:
- 3/4" G1S PLYWOOD FIRE RATED BACKBOARD C/W 2 COATS OF FIRE RETARDANT PAINT, WALL SURFACE MOUNT, ON WALLS AS INDICATED, PAINT COLOR TO MATCH WALL.
 - CABLE RUNWAY 450mm (18") WIDE, SOLID SIDE STRINGER 50mmx10mm (2"x0.4"), RUNG SPACING 230mm (9"), SUPPORT SPACING 1500mm (60") OR LESS, MANUFACTURED ACCESSORIED. (TYPICAL)
 - PROVIDE RADIUS CABLE TRAY DROP-OUT SUPPORTS PROTECT CABLES AT TRANSITION FROM CABLE RUNWAY. EXACT LOCATIONS TO BE DETERMINED ON SITE, ALLOW FOR TOTAL OF 4.
 - CABINETS TO BE SUPPLIED BY CITY OF TORONTO AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL PICK UP THE TWO EXISTING CABINETS FROM NORTH TORONTO WASTE WATER TREATMENT PLANT (STORED IN THE GALLERY NEARBY THE SERVER ROOM). COORDINATE PICK UP SCHEDULE WITH THE CITY DURING CONSTRUCTION.
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- TECHNICAL CONTACT:
 EDWARD GUO Edward.guo@toronto.ca
 CELL: 416-889-7073
- MOUNTING HEIGHT OF ALL WALL OUTLETS / RECEPTACLES TO BE 18" AFF UNLESS NOTED OTHERWISE.
 - ALL CONDUITS/SLEEVES WITH BUSHING, AND FIRESTOP (WHERE PENETRATING FIRE RATED WALL/SLABS). ALL U/G CONDUITS STUB-UP 4" AFF ABOVE FLOOR SLAB.
 - ROOM DIMENSIONS SHOWN FOR COORDINATION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSION.
 - GROUND TELECOM RACK, CABINETS AND CABLE RUNWAY TO TELECOM PRIMARY BONDING BUSBAR (PBB) WITH DEDICATED #6 GROUND WIRES.
 - CABLE RUNWAY TO ALIGN WITH CORRIDOR CABLE TRAYS, PROVIDE VERTICAL SUPPORT WHERE REQUIRED FOR CABLE DOWN TO RACKS.
 - TO BE SUPPLIED BY CITY OF TORONTO CORPORATE SECURITY AND INSTALLED BY THE CONTRACTOR. PROVIDE 1-CAT6A PATCH CORD FROM SECURITY CABINET TO ISTAR PANEL.

1 IT ROOM LAYOUT
1:20

CLIENT CITY OF TORONTO
 Corporate Real Estate Management
 Project Management Office
 Metro Hall Toronto, ON
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. CHAUDHARY

SHEET TITLE
ELECTRICAL AUXILIARY IT ROOM LAYOUT

SHEET NUMBER E4110	ISSUE D
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T. SHEN

PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
S. CHAUDHARY

SHEET TITLE
**ELECTRICAL AUXILIARY
 CABINET RACK ELEVATIONS**

SHEET NUMBER
E4111

ISSUE
D

NOTES:

- PROVIDE TWO L14-30R RECEPTACLES MOUNTED ABOVE IT CABINET AND PROVIDE TWO L5-20R RECEPTACLES MOUNTED ABOVE SECURITY CABINET. ONE FED FROM UPS PANEL AND ONE FED FROM UTILITY POWER PANEL. THE POWER CABLES SHALL RUN IN A CONDUIT ALONG THE CABLE TRAY TO ABOVE OF CABINET. THE RECEPTACLES SHALL BE LABELED SOURCE POWER PANEL # AND CIRCUIT BREAKER #.
- MAGNETIC MOUNTED LED LIGHT SHALL BE PROVIDED FOR REAR OF EACH CABINET.
- PROVIDE TWO POWER DISTRIBUTION UNITS (PDU) MOUNTED AT THE REAR OF THE NETWORK CABINET.
- PROVIDE RACK MOUNTED GROUNDING BUS BAR (PANDUIT) AT THE BOTTOM OF THE REAR OF NETWORK AND SECURITY CABINETS. PROVIDE #6AWG GROUNDING WIRE TO CONNECT GROUNDING BUS BAR TO TELECOM PRIMARY BUS BAR (TPP).
- CONTRACTOR TO COORDINATE WITH CITY IT/SECURITY PRIOR TO INSTALLATION OF ALL EQUIPMENT, FREE ISSUED BY CITY.
- SUPPLY ONE BOX (PACK OF 250) M6 CAGE NUTS AND SCREWS, FOR TWO CABINETS, CPI CLIK-NUT®, PART NO: 76543-002.
- FOR SECURITY CABINET, CONFIRM THE SUPPLIED ATS PDU POWER CORD PLUG MATCHES POWER RECEPTACLES AT TOP OF CABINET. IF NEEDED, 1 PAIR OF POWER ADAPTER SHALL BE PROVIDED FOR THE ATS AND RECEPTACLE CONNECTION.
- FOR NETWORK CABINET, THE NEW PDU POWER PLUG SHALL MATCH WITH L14-30R, OTHERWISE POWER ADAPTER SHALL BE PROVIDED ACCORDINGLY.
- IF IP CAMERA NEED HPOE WHICH IS MORE THAN 30W, ADDITIONAL REQUIRED HPOE INJECTOR SHALL BE PROVIDED FOR THE CAMERA AND PUT IN THE FIX SHELF OF SECURITY CABINET.

FRONT VERTICAL
 CABLE MANAGER
 FRONT SIDE
 (CABLE TALK P/N:
 TC3-CMS-11-B)

PDU MOUNTED TO THE
 REAR OF THE CABINET
 PLUGGED INTO
 OVERHEAD UPS
 POWER RECEPTACLE
 (APC AP8861 OR
 EQUAL)

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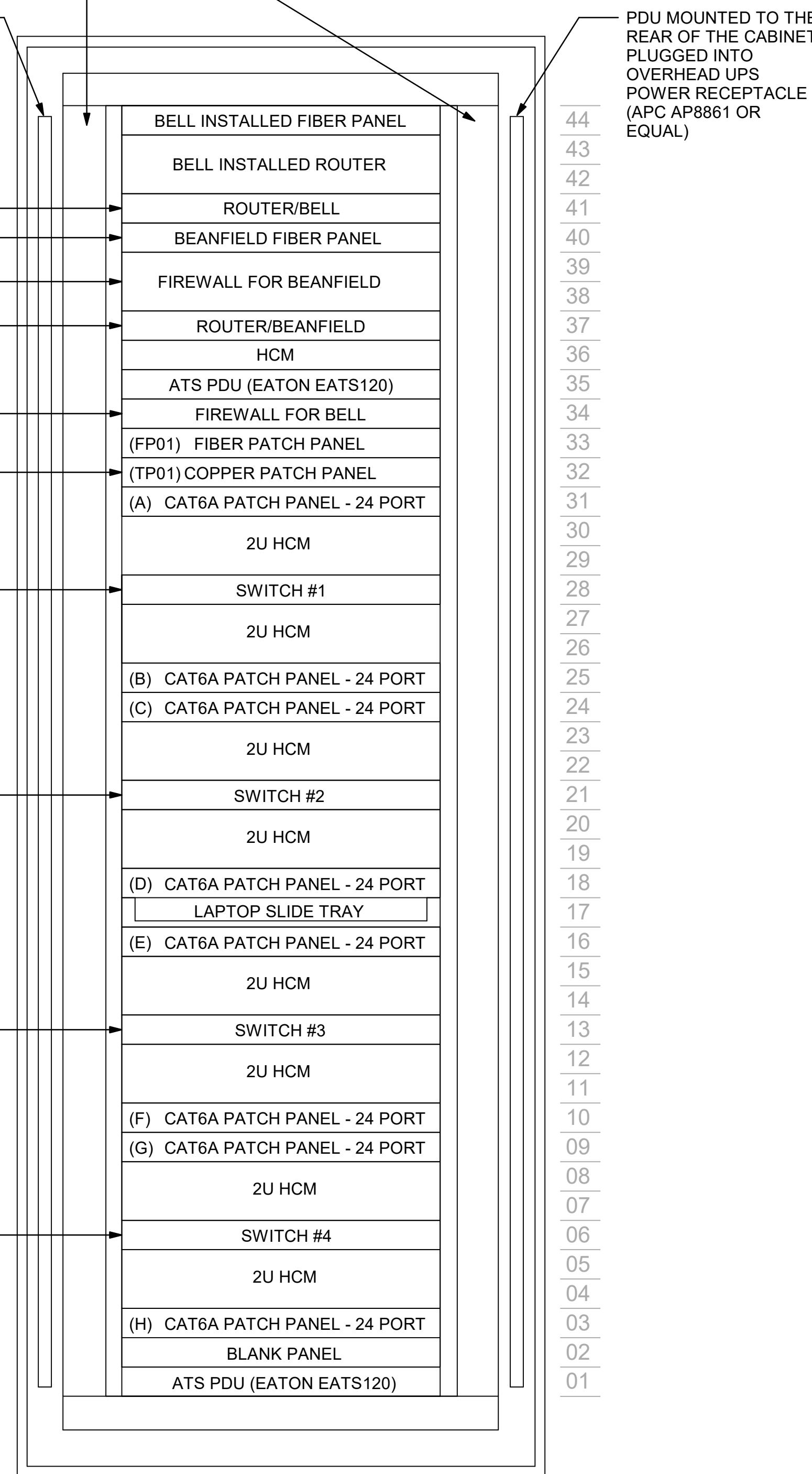
VOICE BACKBONE

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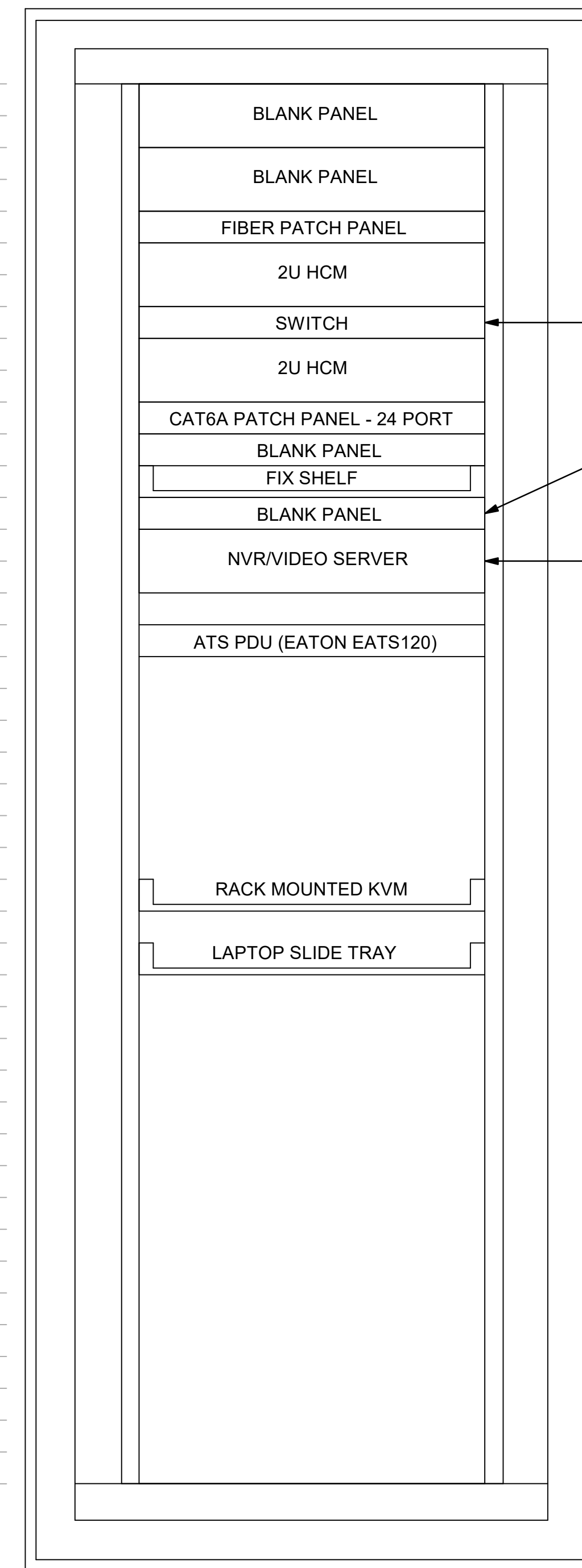
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**YTE-ITS-COM-0100
 IT CABINET (FREE ISSUED BY CITY)
 (FRONT VIEW)**

PDU MOUNTED TO THE
 REAR OF THE CABINET
 PLUGGED INTO
 OVERHEAD UPS
 POWER RECEPTACLE
 (APC AP8861 OR
 EQUAL)

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- 01



**YTE-SS-COM-001
 SECURITY CABINET (FREE ISSUED BY CITY)
 (FRONT VIEW)**

FREE ISSUED BY CITY

FOR LOOSE MOUNTED DEVICES
 (POE SURGE PROTECTORS,
 POTENTIAL HPOE INJECTOR, ETC.)

HUSKY IVO 1000R

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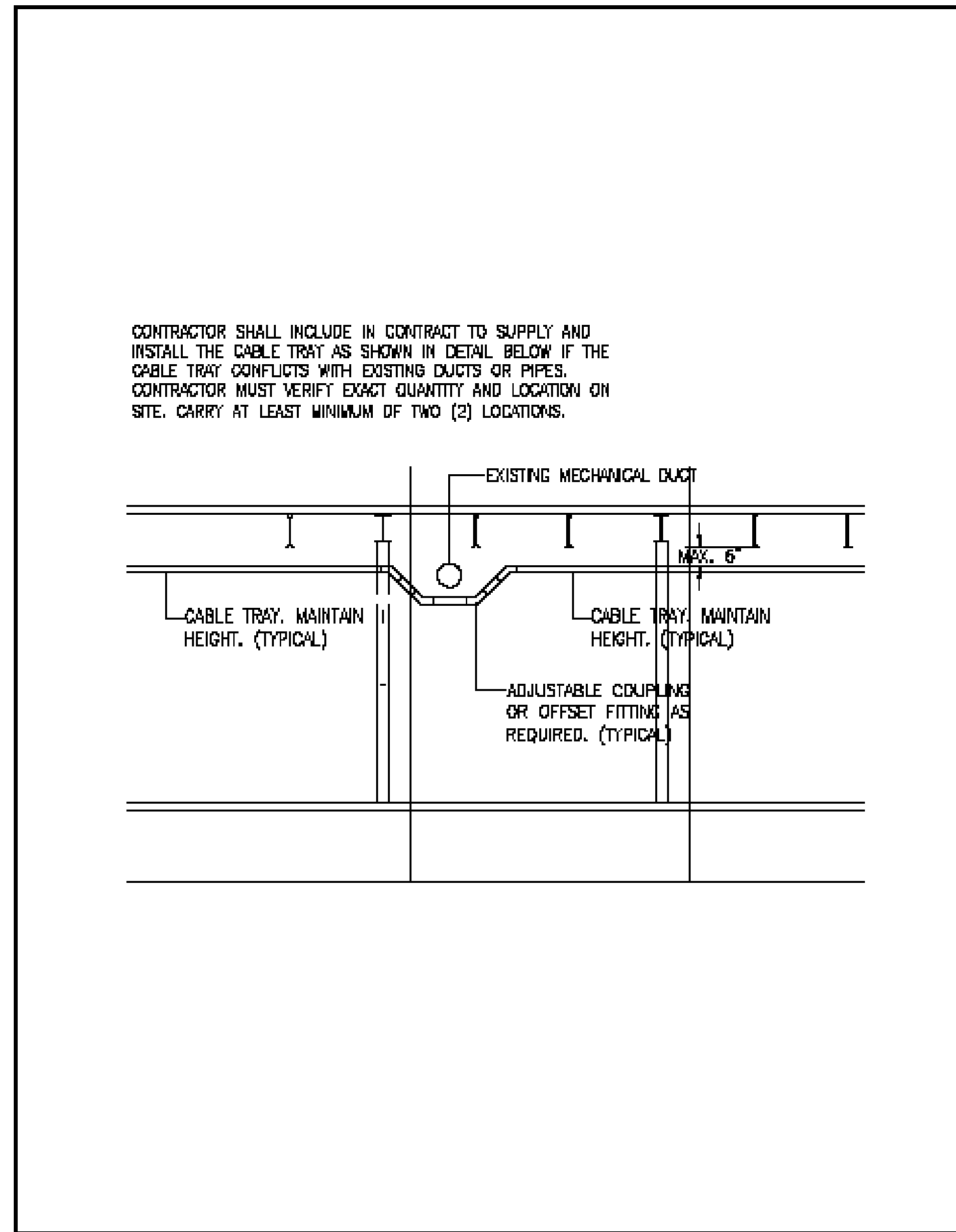
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. CHAUDHARY

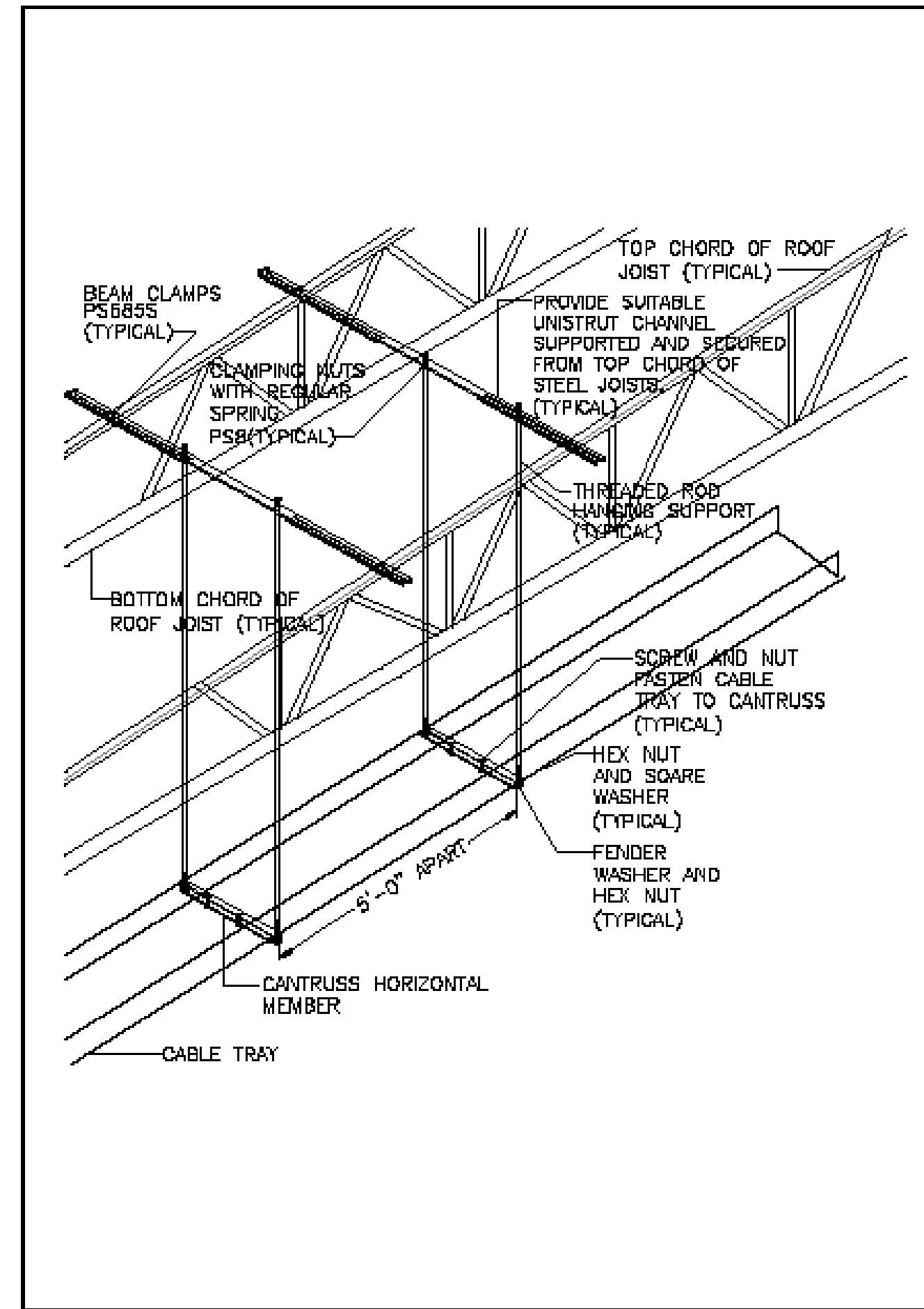
SHEET TITLE
ELECTRICAL AUXILIARY CABLE TRAY DETAILS

SHEET NUMBER E4112	ISSUE D
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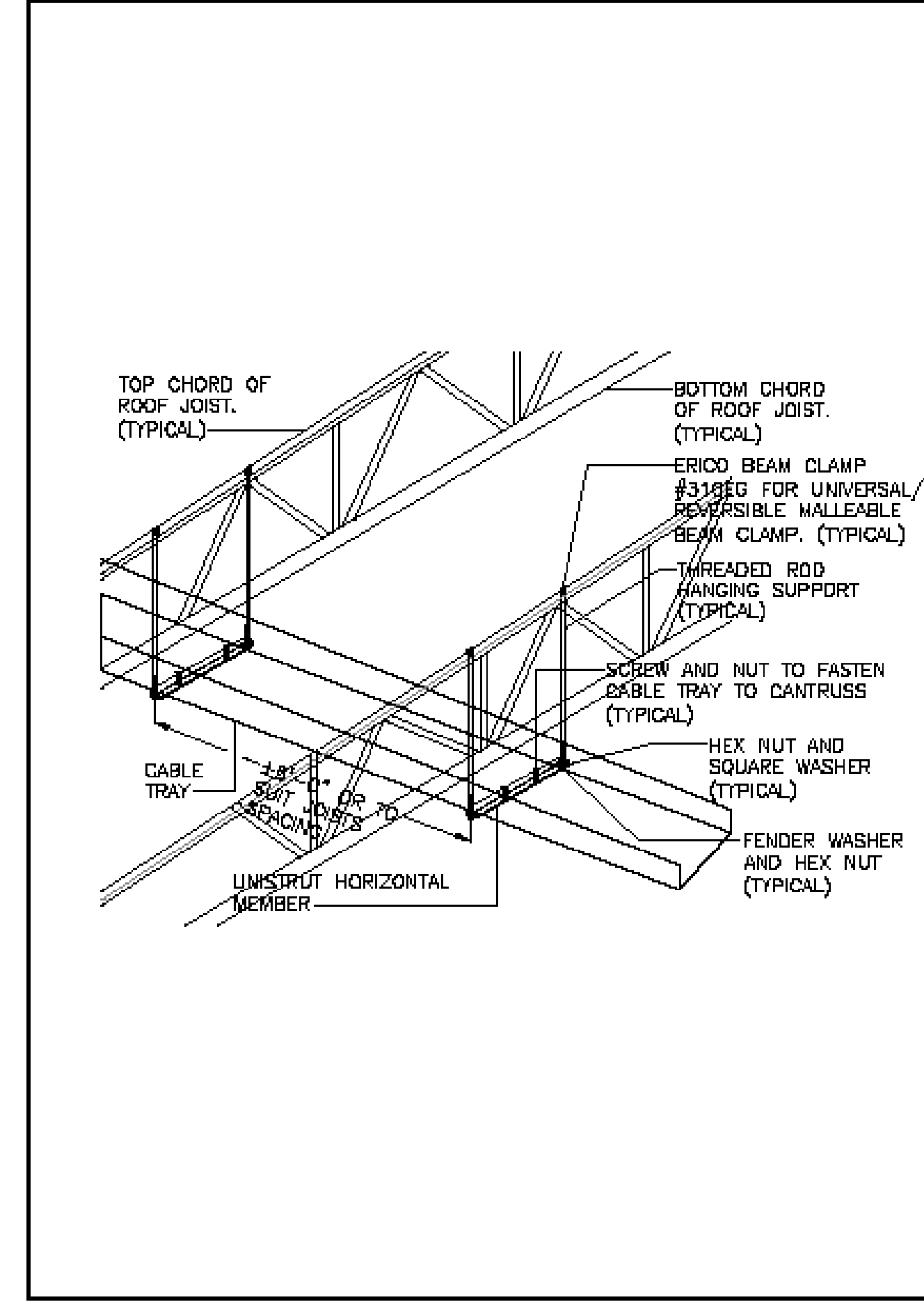
INSTALLATION DETAIL OF CABLE TRAY UNDER MECHANICAL DUCT

1
 E4112



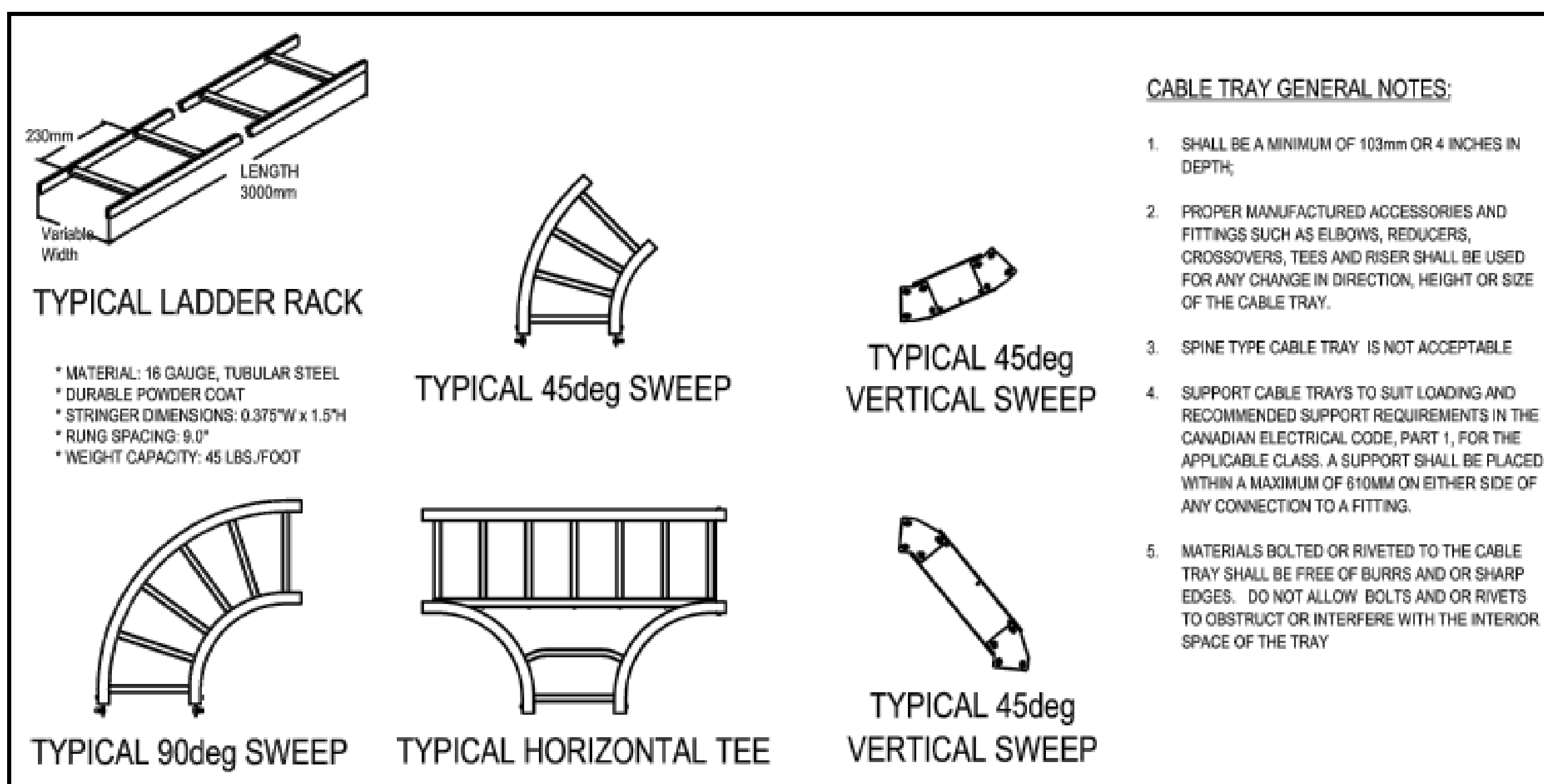
DETAIL OF CABLE TRAY SUPPORT WHEN RUN PARALLEL TO THE JOISTS

2
 E4112



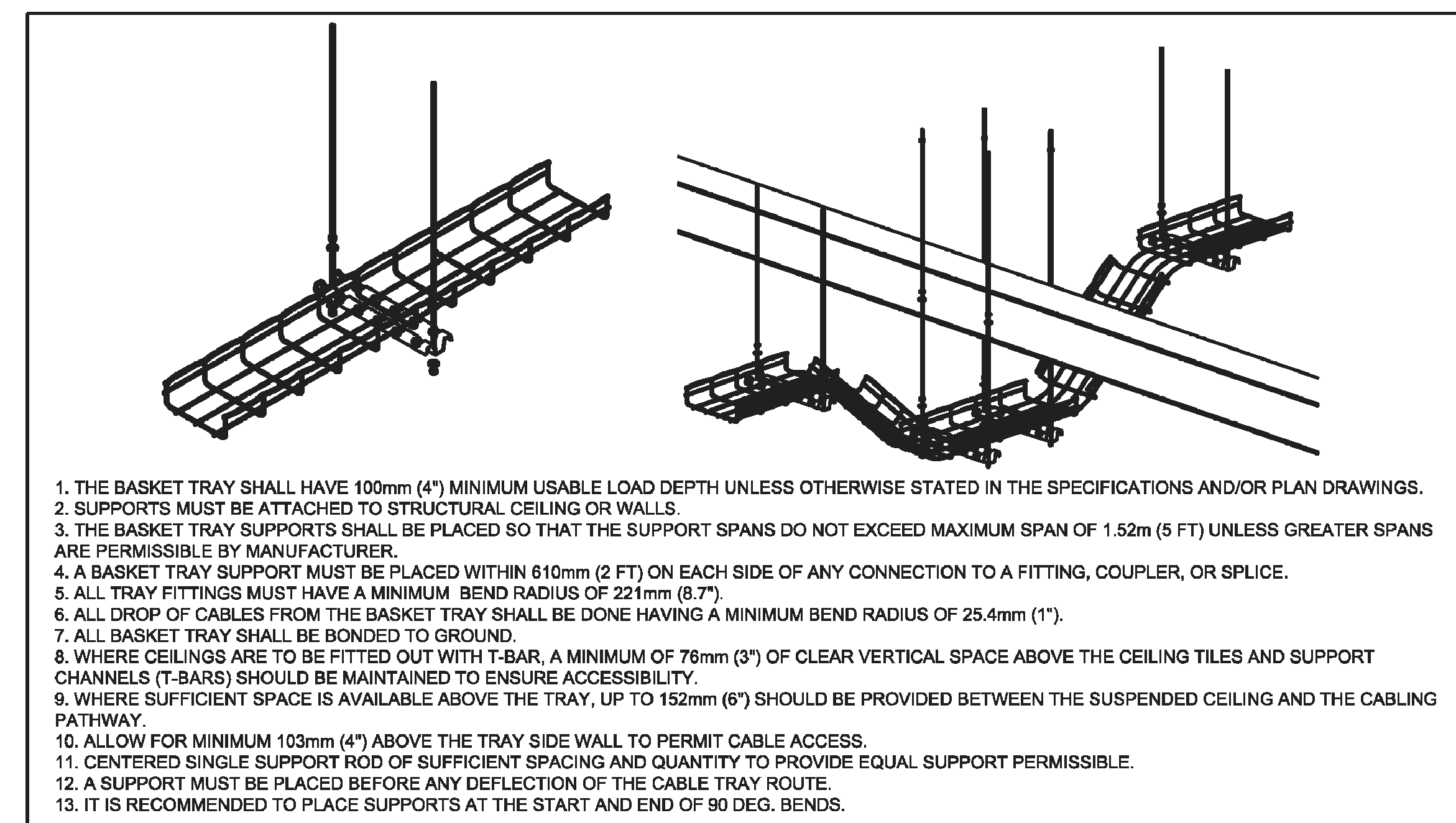
DETAIL OF CABLE TRAY SUPPORT WHEN RUN PERPENDICULAR TO THE JOISTS

3
 E4112



LADDER-TYPE RACK DETAILS

4
 E4112



CABLE TRAY DETAILS

5
 E4112

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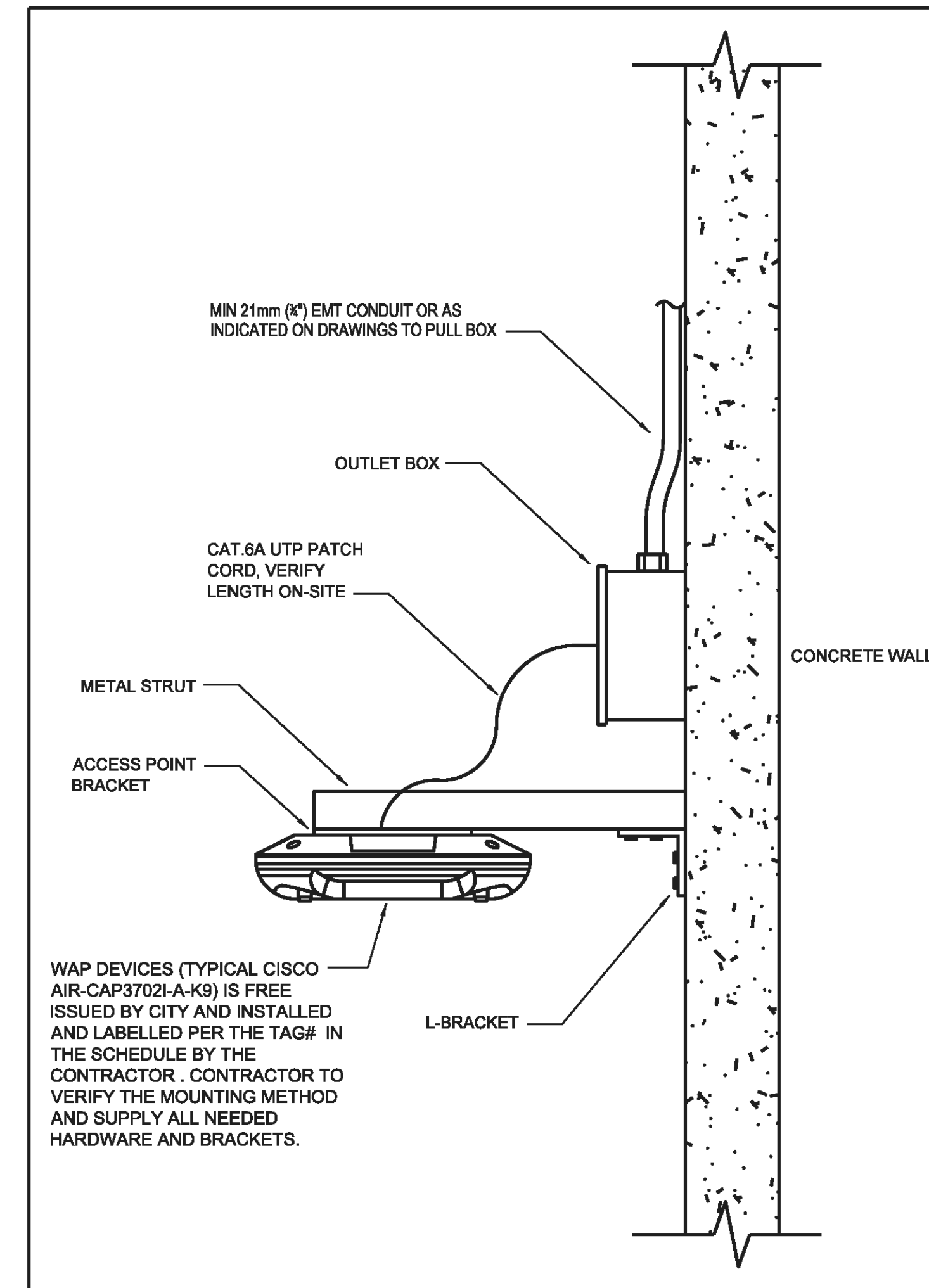
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 Toronto, ON M5E 1Y8

PROJECT NO:
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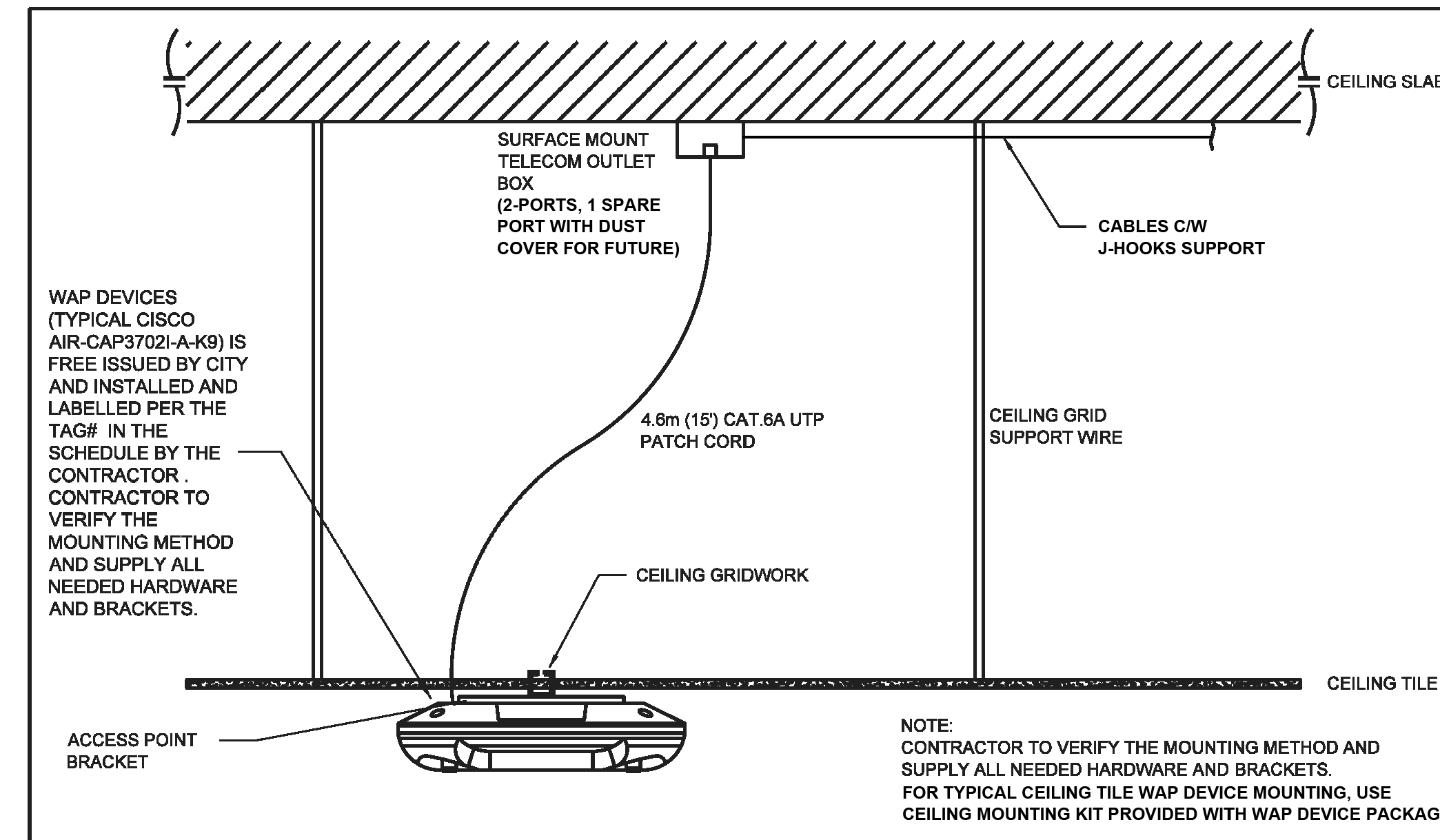
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PROJECT MGR: F. BOLOURIAN	APPROVED BY: S. CHAUDHARY

SHEET TITLE
ELECTRICAL AUXILIARY INSTALLATION DETAILS

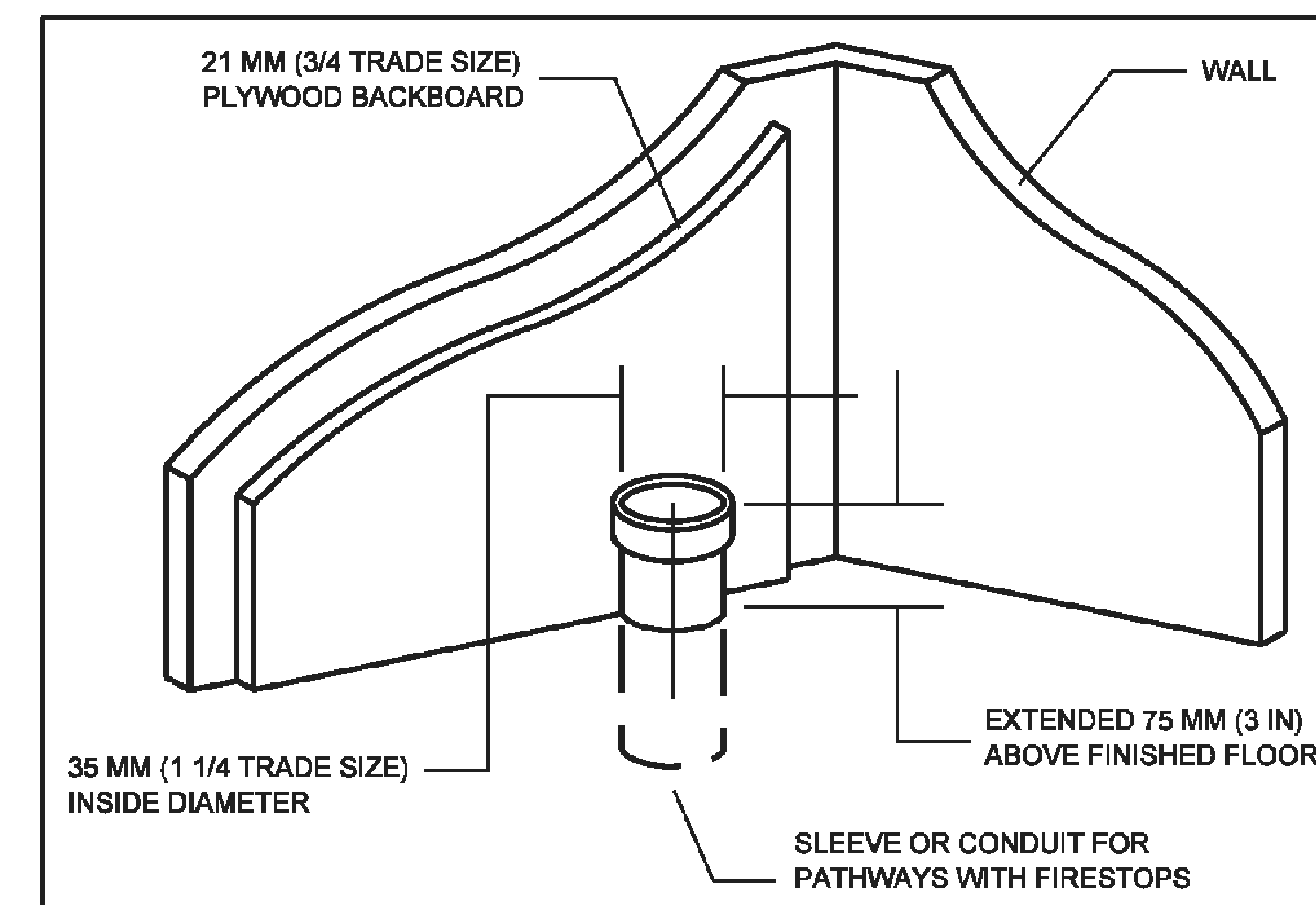
SHEET NUMBER E4113	ISSUE D
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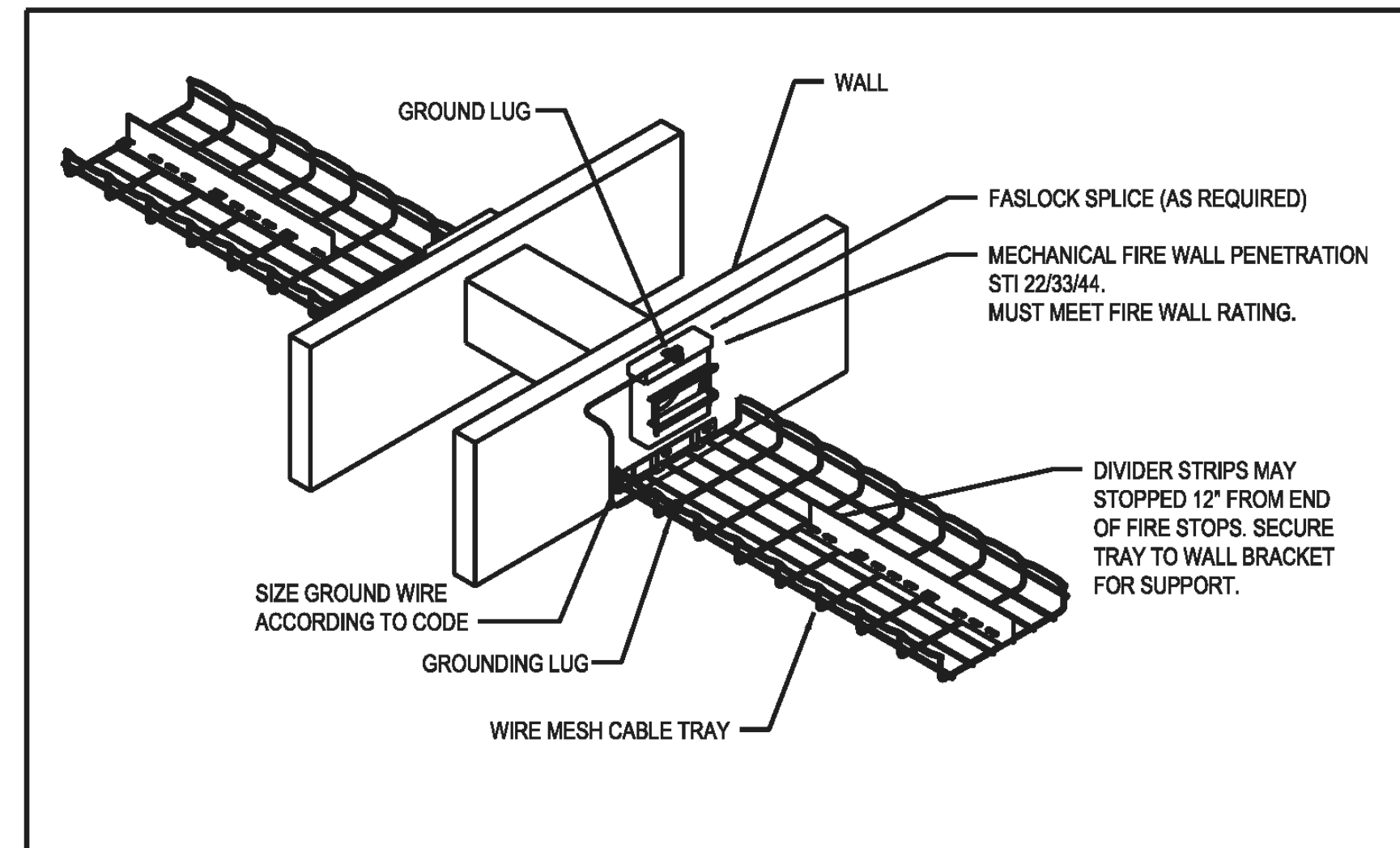
WALL-MOUNTED ACCESS POINT INSTALLATION



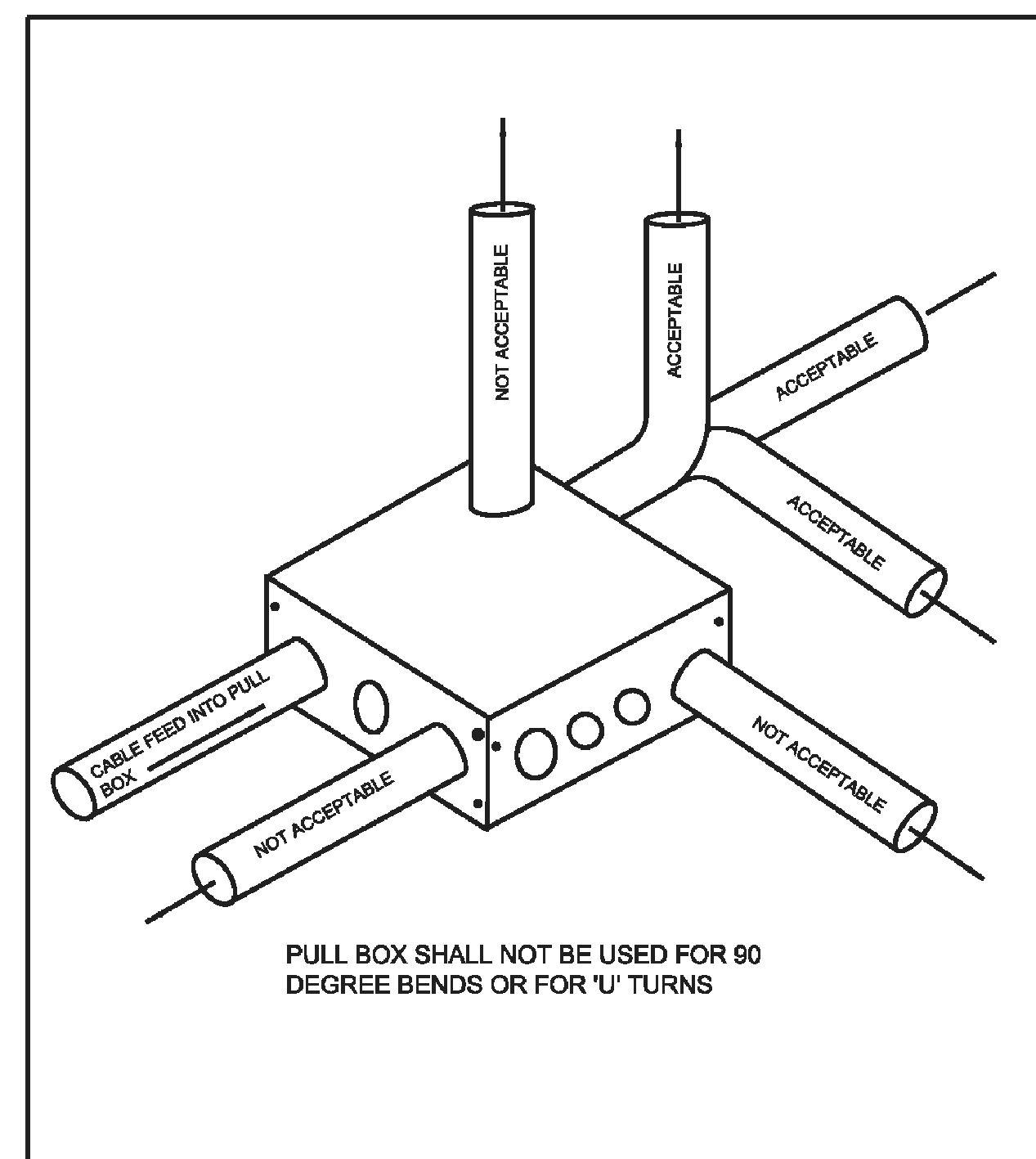
CEILING-MOUNTED ACCESS POINT INSTALLATION



TYPICAL SLEEVE/CONDUIT



FIRE-STOPPING DETAIL



PULLBOX DETAILS

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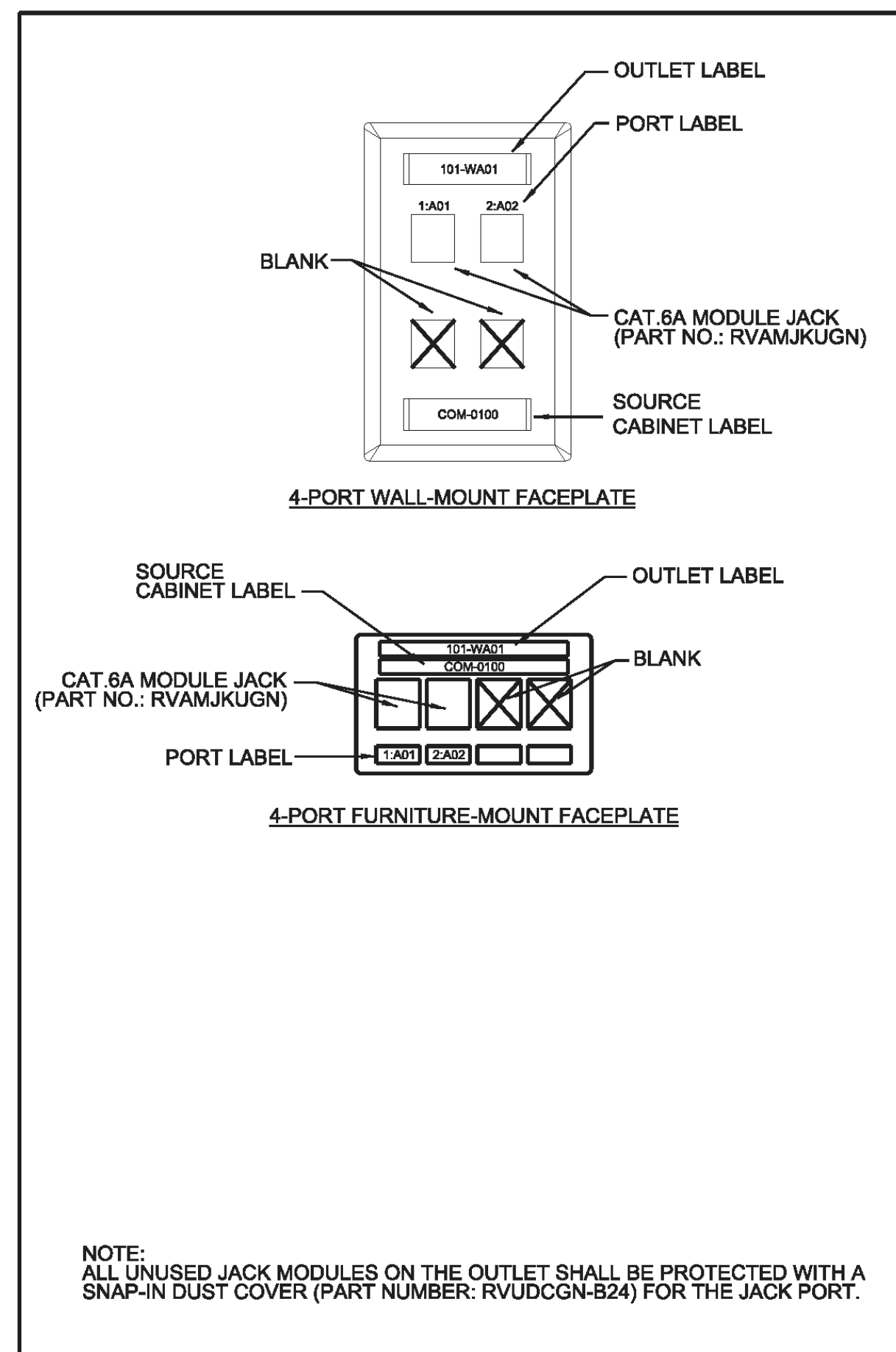
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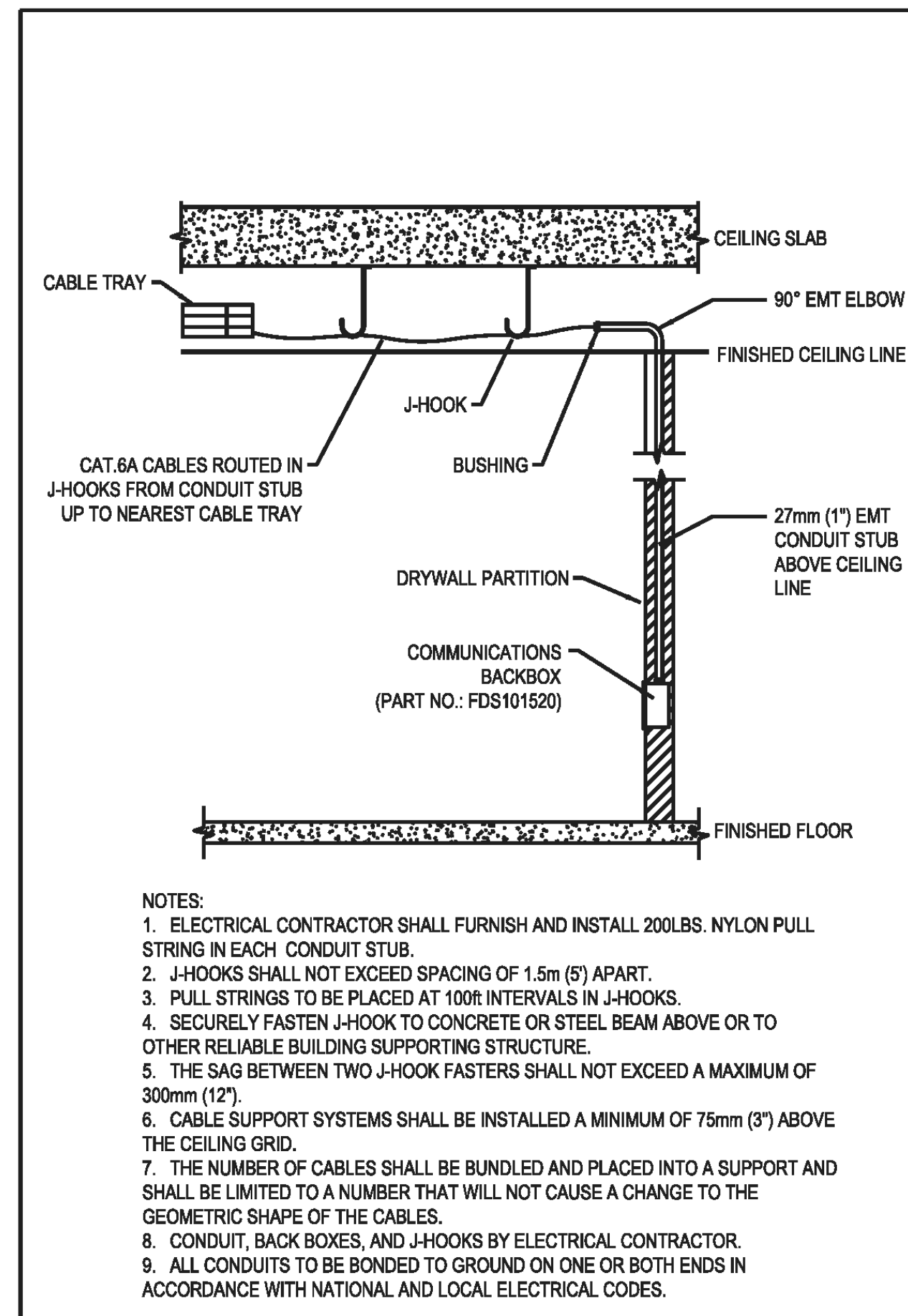
SHEET TITLE
**ELECTRICAL AUXILIARY WORK
 AREA OUTLET DETAILS**

SHEET NUMBER E4114	ISSUE D
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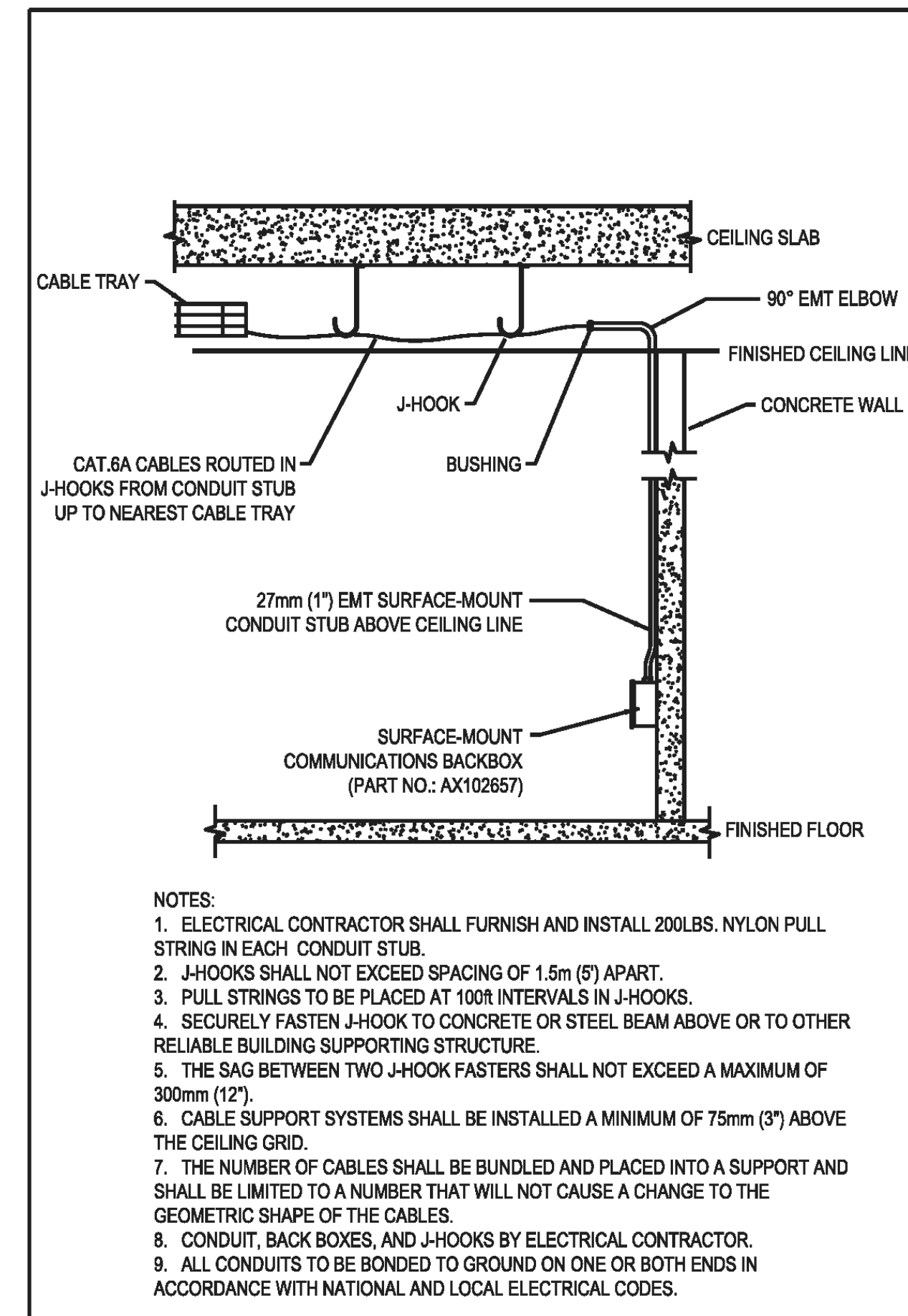
WORK AREA OUTLETS DETAIL

1
E4114



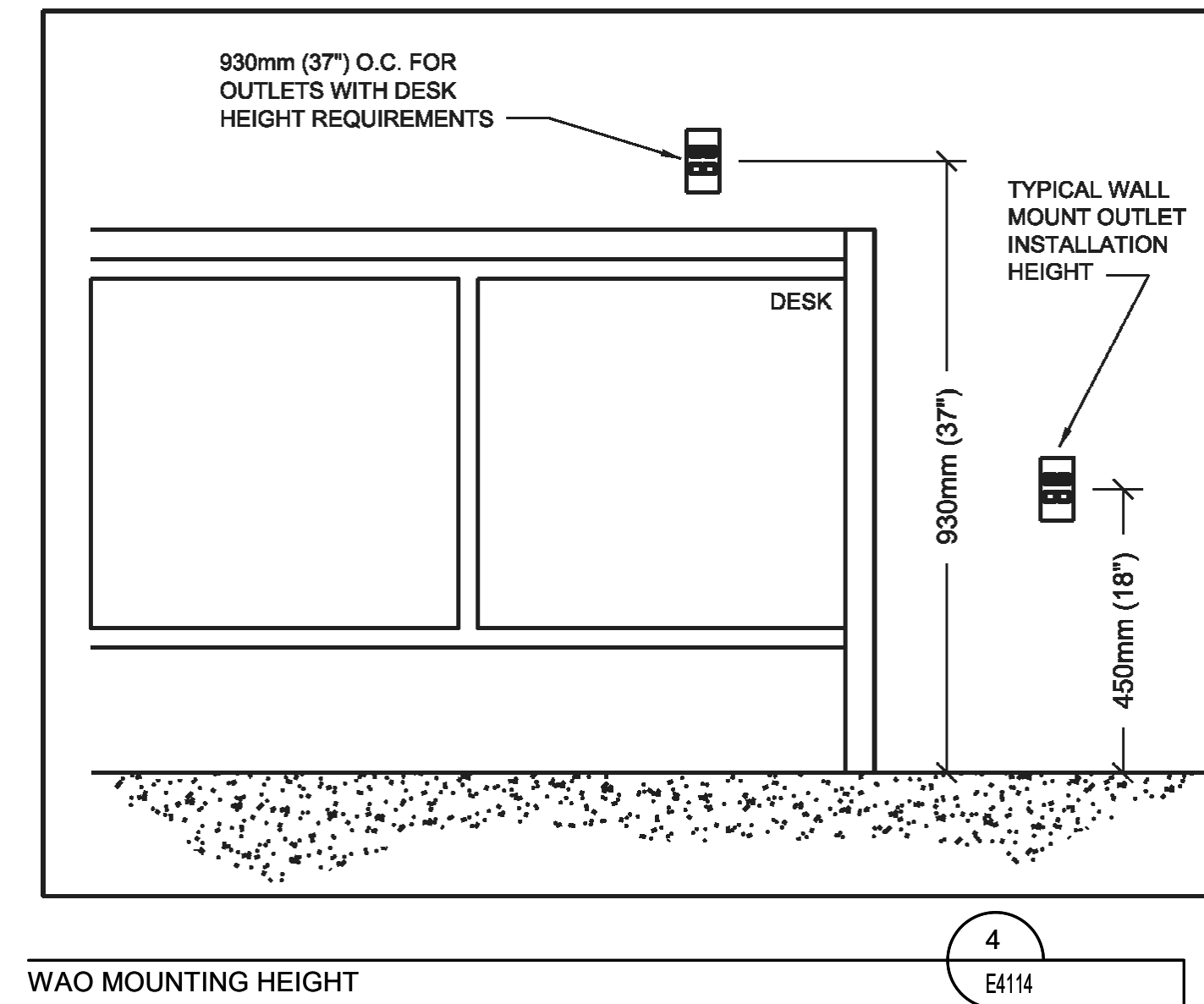
FLUSH-MOUNTED WAO INSTALLATION

2
E4114



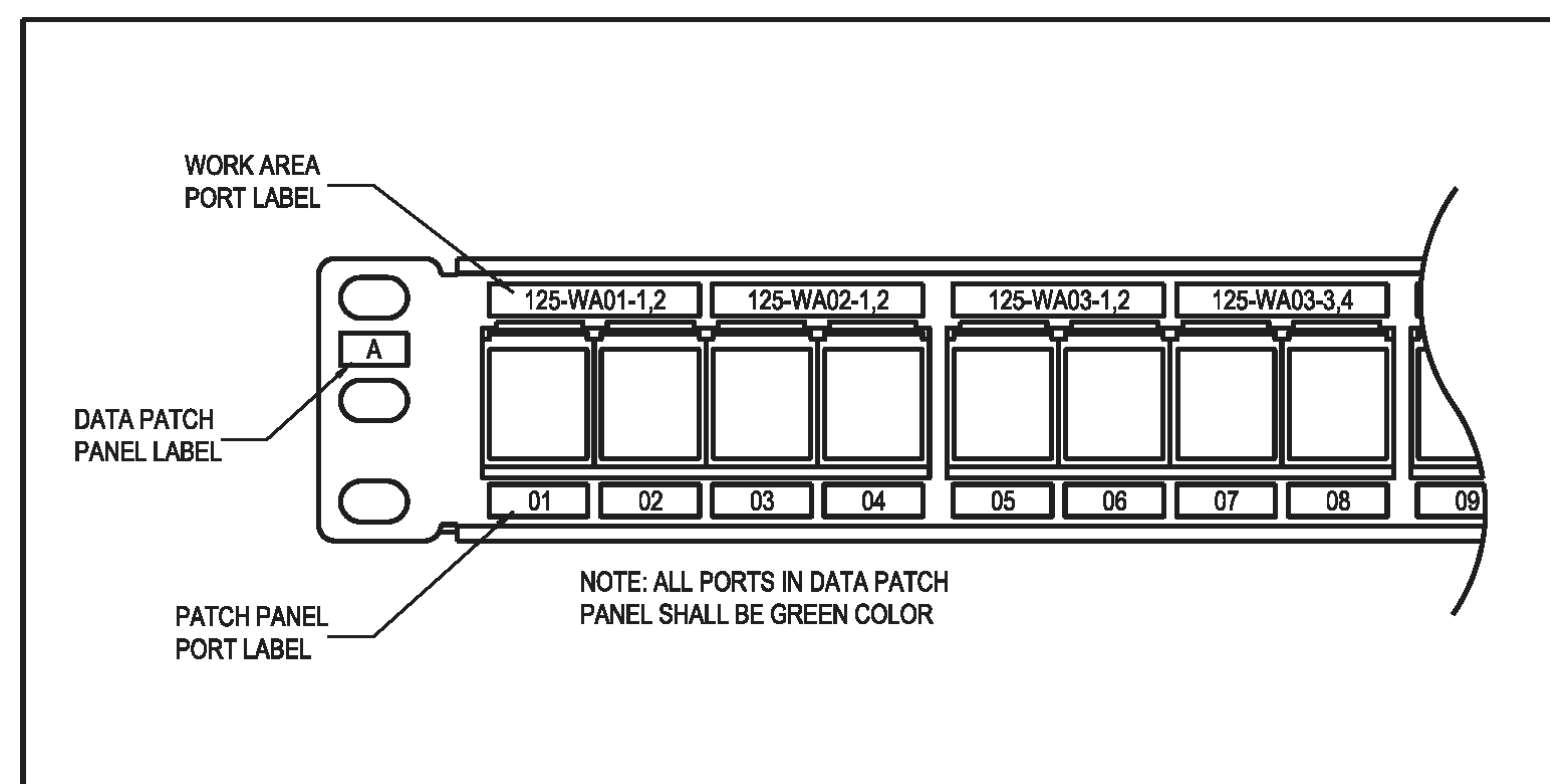
SURFACE-MOUNTED WAO
 INSTALLATION

3
E4114



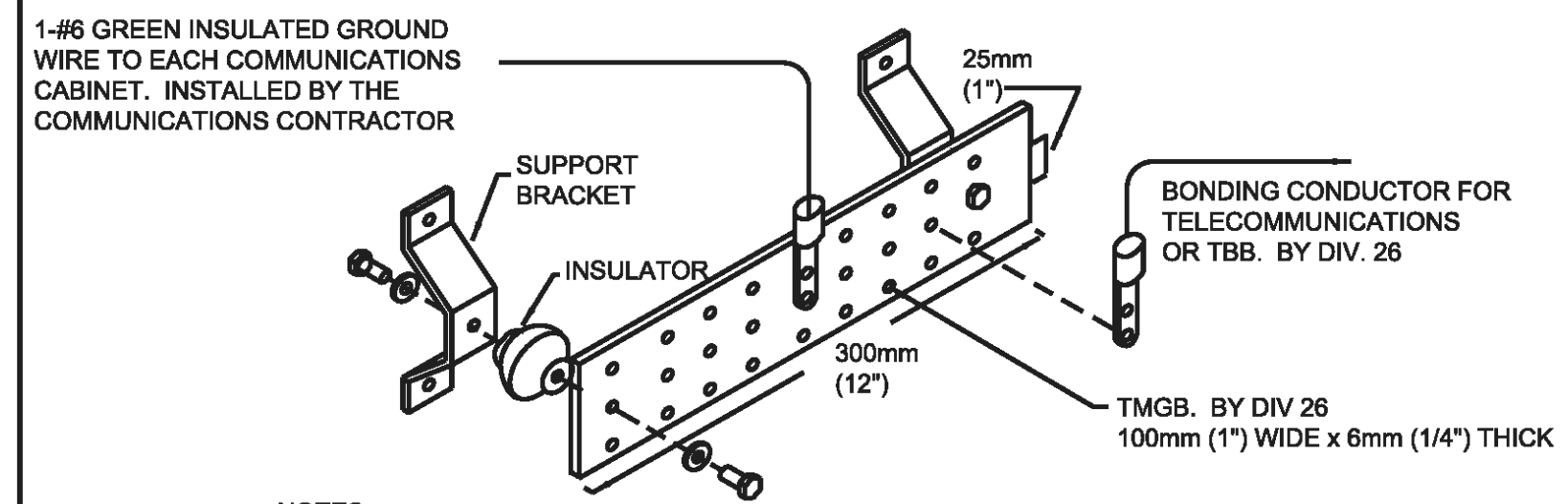
WAO MOUNTING HEIGHT

4
E4114

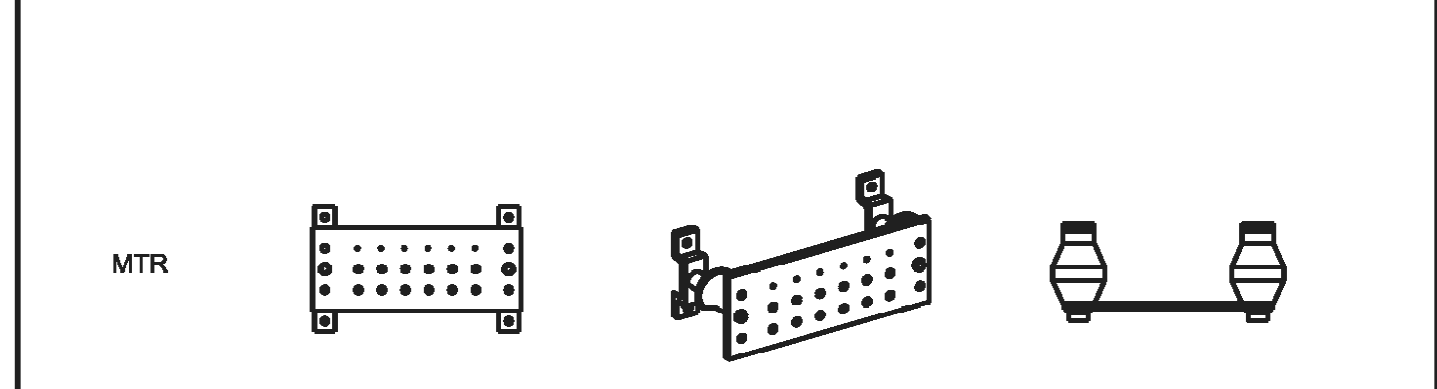


PATCH PANEL LABELING

5
E4114

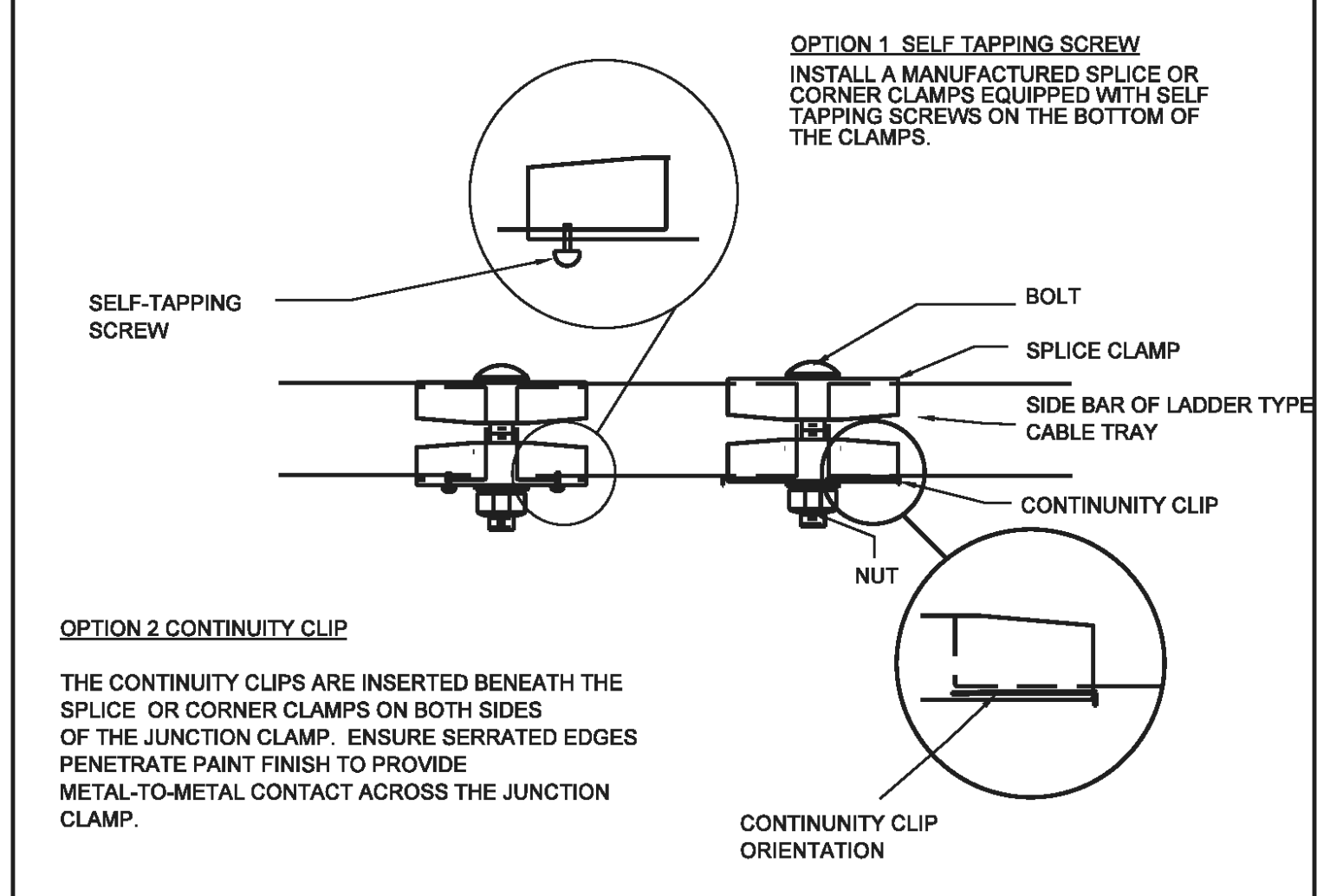


- NOTES:**
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONE MOUNTED GROUND BUS AT EACH VOICE/DATA EQUIPMENT ROOM.
 2. GROUND BUS BAR SHALL BE INSTALLED 12"(305mm) AFF.
 3. ALL BRANCH GROUNDING WITHIN THE MDF AND IDF ROOMS SHALL BE FURNISHED AND INSTALLED BY THE COMMUNICATIONS CONTRACTOR.
 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND CONNECTION BETWEEN THE BASE BUILDING SERVICE ENTRANCE GROUNDING ELECTRODE AND THE MDF AND IDF GROUND BUSES. ALSO PROVIDE A GROUND CONNECTION BETWEEN THE MDF AND IDF GROUND BUSES (WHERE REQUIRED).
 5. ALL GROUNDING TERMINATIONS SHALL BE DONE WITH U.L. LISTED HYPRESS LUGS AND GROUNDING CLAMPS.
 6. TMGB TO BE LOCATED IN SERVER ROOM.



TYPICAL SERVER ROOM COPPER BUS BAR

AN INSULATED PRE-DRILLED ELECTRO TIN PLATED COPPER BUSBAR, MINIMUM DIMENSIONS OF 6MM THICK X 100MM WIDE X 300MM LONG (0.24" X 4" X 12"). (LONGER LENGTH MAY BE REQUIRED TO ACCOMMODATE LARGE OR FUTURE CONNECTION REQUIREMENTS), SHALL BE INSTALLED ON THE WALL OF THE MTR ADJACENT TO THE CABLE ENTRANCE CONDUITS, 150MM (6") FROM THE CORNER OF THE MTR AND 150MM (6") AFF. THIS BUSBAR IS KNOWN AS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) AND SHALL BE INSULATED FROM ITS SUPPORT BY A MINIMUM OF 50MM (2").



OPTION 2 CONTINUITY CLIP

THE CONTINUITY CLIPS ARE INSERTED BENEATH THE SPLICE OR CORNER CLAMPS ON BOTH SIDES OF THE JUNCTION CLAMP. ENSURE SERRATED EDGES PENETRATE PAINT FINISH TO PROVIDE METAL-TO-METAL CONTACT ACROSS THE JUNCTION CLAMP.

SIZING OF TELECOMMUNICATIONS BONDING BACKBONE:

LENGTH m (ft)	kcmil	TBB SIZE (AWG)
Less than 4 (13)	26,240	6
4-6 (13-20)	41,740	4
6-8 (20-26)	52,620	3
8-10 (26-33)	66,380	2
10-13 (33-34)	83,890	1
13-16 (44-52)	105,600	1/0
16-20 (52-66)	133,100	2/0
Greater than 20 (66)	167,800	3/0

ANSI J-STD-607-A PROVIDES STANDARD REQUIREMENTS FOR TBBs AND ASSOCIATED HARDWARE

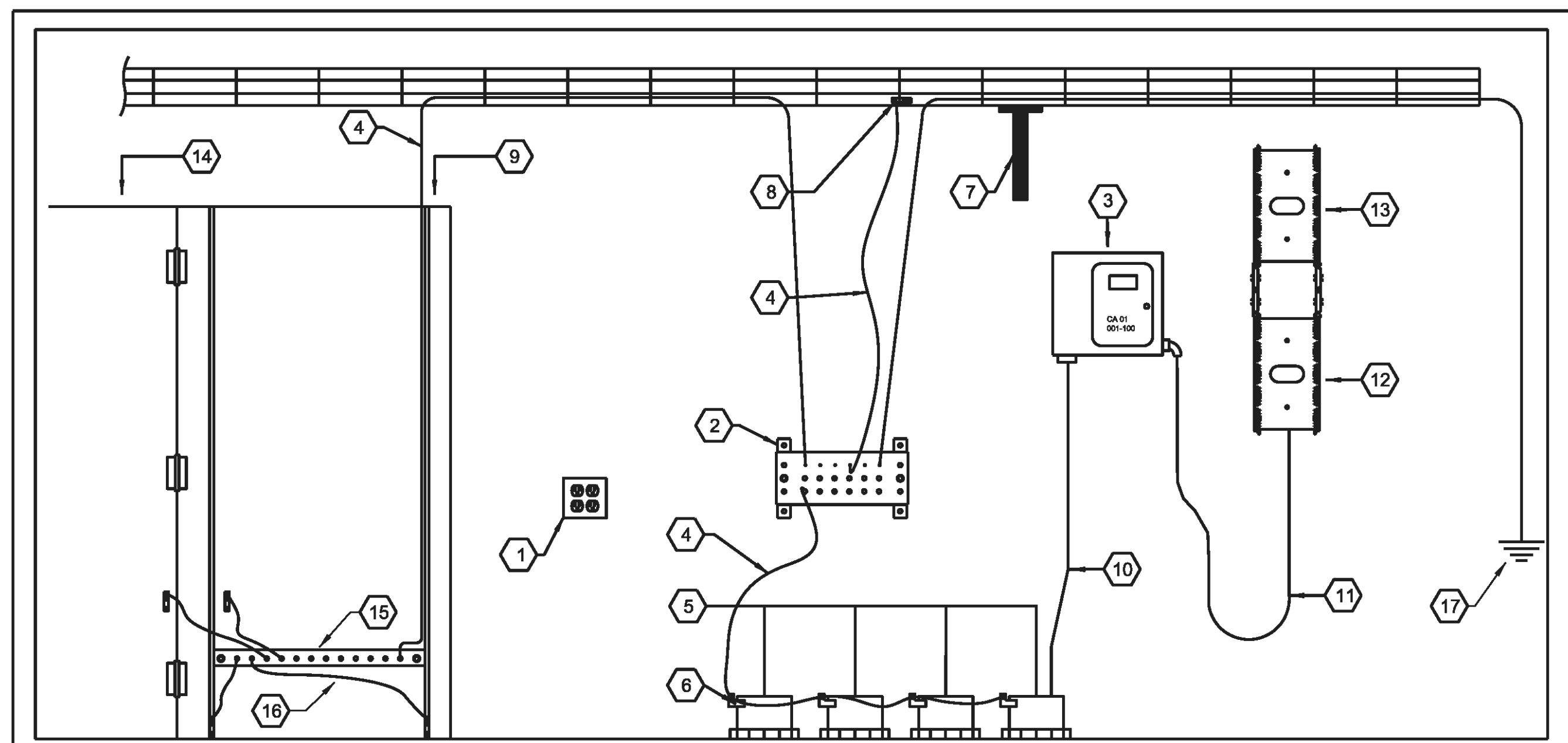
THE TBB SHOULD:

- HAVE A MINIMUM SIZE OF 6 AWG (4.1 mm (0.16 in)) AND COULD BE AS LARGE AS A 3/0 AWG (14.73 mm (0.580 in)).
- BE SIZED AT 2 kcmil PER LINEAR FOOT OF CONDUCTOR LENGTH.
- NOT BE DESIGNED TO PROVIDE THE ONLY AC POWER GROUND FAULT RETURN PATH.
- NOT BE SPLICED.
- HAVE IRREVERSIBLE SPLICED CONNECTIONS (EXOTHERMIC OR COMPRESSION TYPE).

TELECOMMUNICATIONS GROUNDING BUS BAR DETAIL 1 E4115

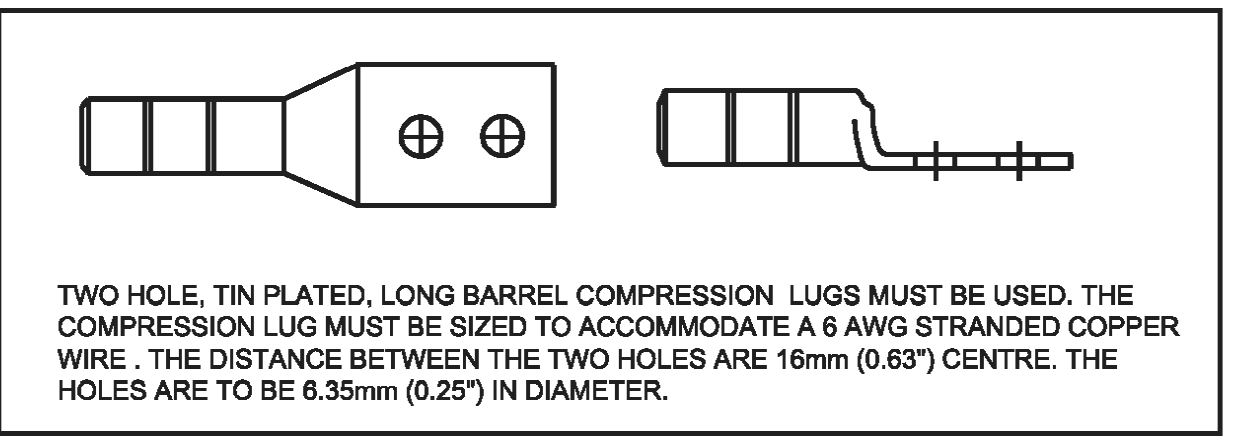
BUS BAR DETAILS 2 E4115

TRAY SPLICE DETAIL 3 E4115

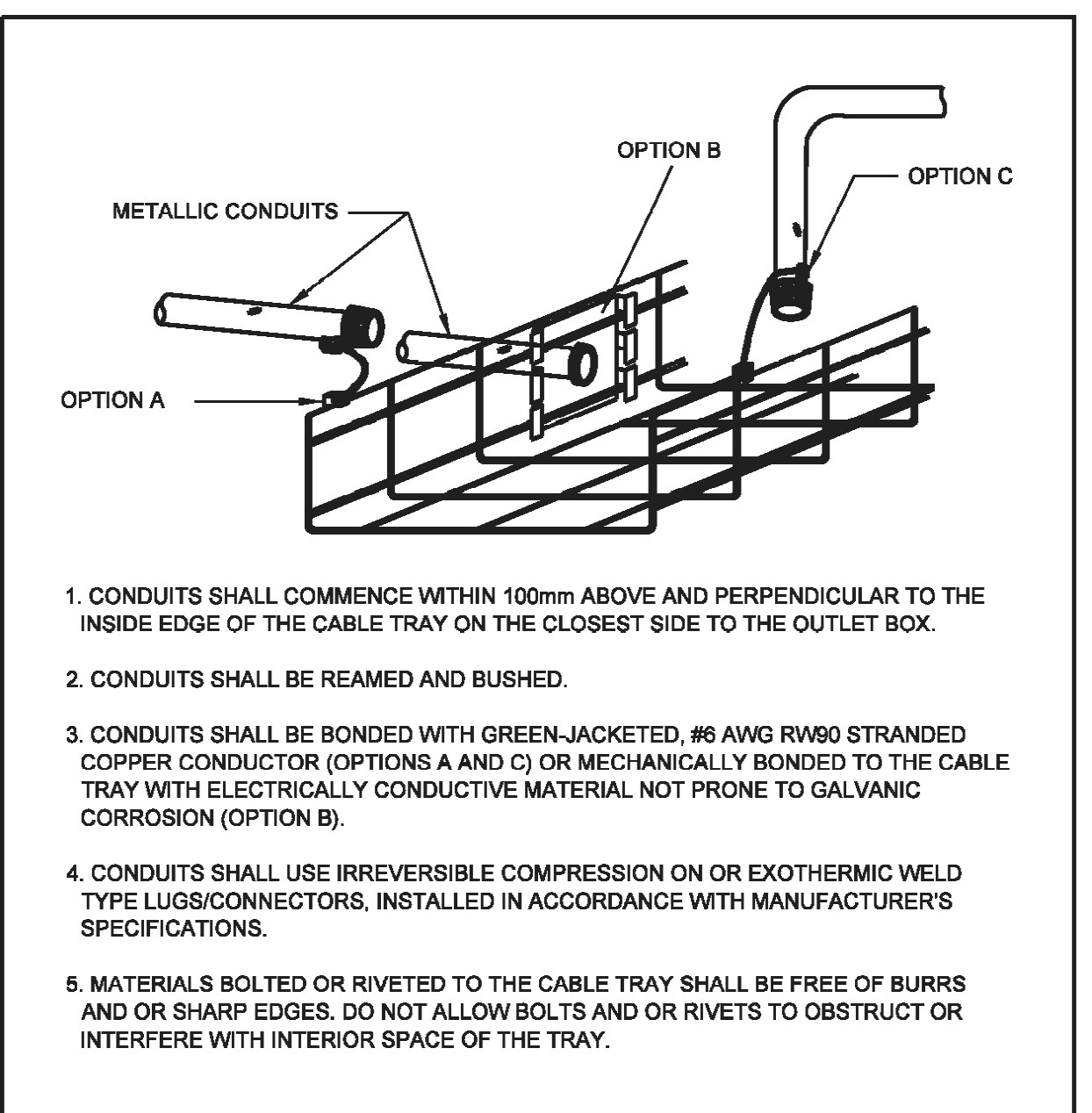


1. 2-15R DUPLEX 150mm AFF (BY DIVISION 26).
2. GROUNDING BUS BAR (BY DIVISION 26).
3. ENTRANCE COPPER PROTECTOR (100-PAIR).
4. MINIMUM #6 AWG GREEN JACKET GROUNDING CABLE TO TELECOMMUNICATIONS GROUNDING BUSBAR.
5. INCOMING CONDUITS FOR SERVICE PROVIDER BY ELECTRICAL (DIVISION 26).
6. ALL INCOMING CONDUITS TO BE BONDED TO MAIN TELECOMMUNICATIONS GROUNDING BUSBAR.
7. WALL MOUNTED LADDER RACK SUPPORT.
8. ALL CABLE TRAY/LADDER RACK TO BE BONDED TO MAIN TELECOMMUNICATIONS BUSBAR WITH A MINIMUM #6 AWG GREEN JACKETED CABLE.
9. ALL NETWORK CABINETS IN THE SERVER ROOM TO BE BONDED TO MAIN TELECOMMUNICATIONS BUSBAR WITH A MINIMUM #6 AWG GREEN JACKETED CABLE.
10. INCOMING COPPER FEEDS FROM SERVICE PROVIDER.
11. PROTECTED COPPER PAIRS TO GIGABIT FIELDS.
12. SERVICE PROVIDER GIGABIT PUNCH DOWNS.
13. USER GIGABIT PUNCH DOWNS.
14. NETWORK CABINET DOOR.
15. RACK MOUNTED GROUNDING STRIP.
16. MINIMUM #10 AWG GREEN JACKET GROUNDING CABLE FOR CABINET FRONT DOOR, REAR DOOR, SIDE PANELS, AND FRAME OF THE NETWORK CABINET TO TELECOMMUNICATIONS GROUNDING BUSBAR.
17. MINIMUM #6 AWG TO BUILDING MAIN ELECTRICAL ROOM GROUNDING BUS BAR.

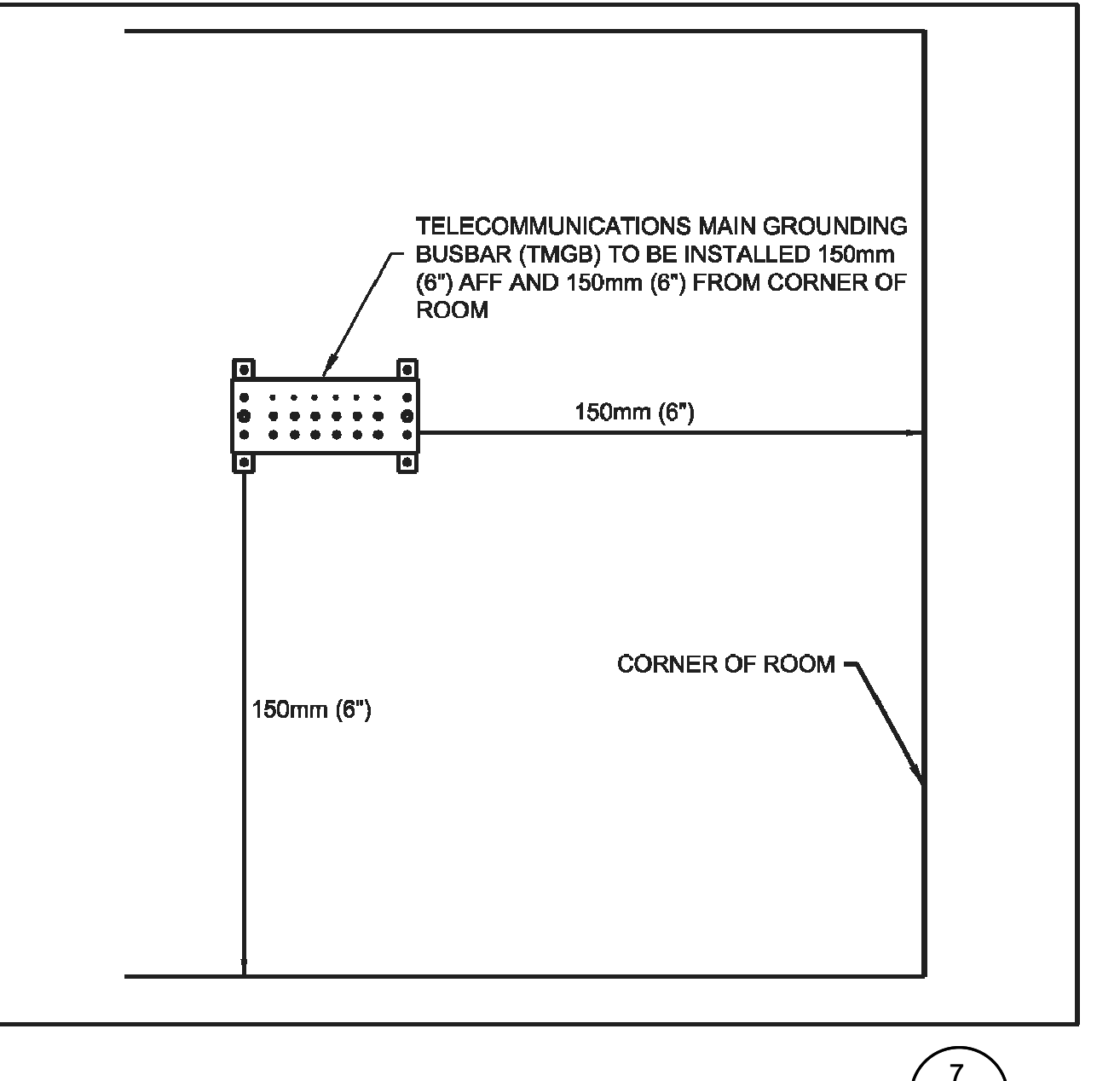
GROUNDING AND BONDING DETAILS 4 E4115



GROUND LUG DETAILS 5 E4115



CONDUIT TO TRAY GROUNDING DETAIL 6 E4115



TMGB ELEVATION 7 E4115

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 95 THE ESPLANADE
 Toronto, ON M5E 1Y8

PROJECT NO:
148121

DRAWN BY:
I. TUNG

PROJECT MGR:
F. BOLOURIAN

CHECKED BY:
T. SHEN

APPROVED BY:
S. CHAUDHARY

SHEET TITLE
ELECTRICAL AUXILIARY GROUNDING AND BONDING DETAILS

SHEET NUMBER
E4115

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PROJECT MGR:
F. BOLOURIAN

APPROVED BY:
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SHEET TITLE
**ELECTRICAL AUXILIARY AV
 DETAILS SHEET 1 OF 3**

SHEET NUMBER
E4116

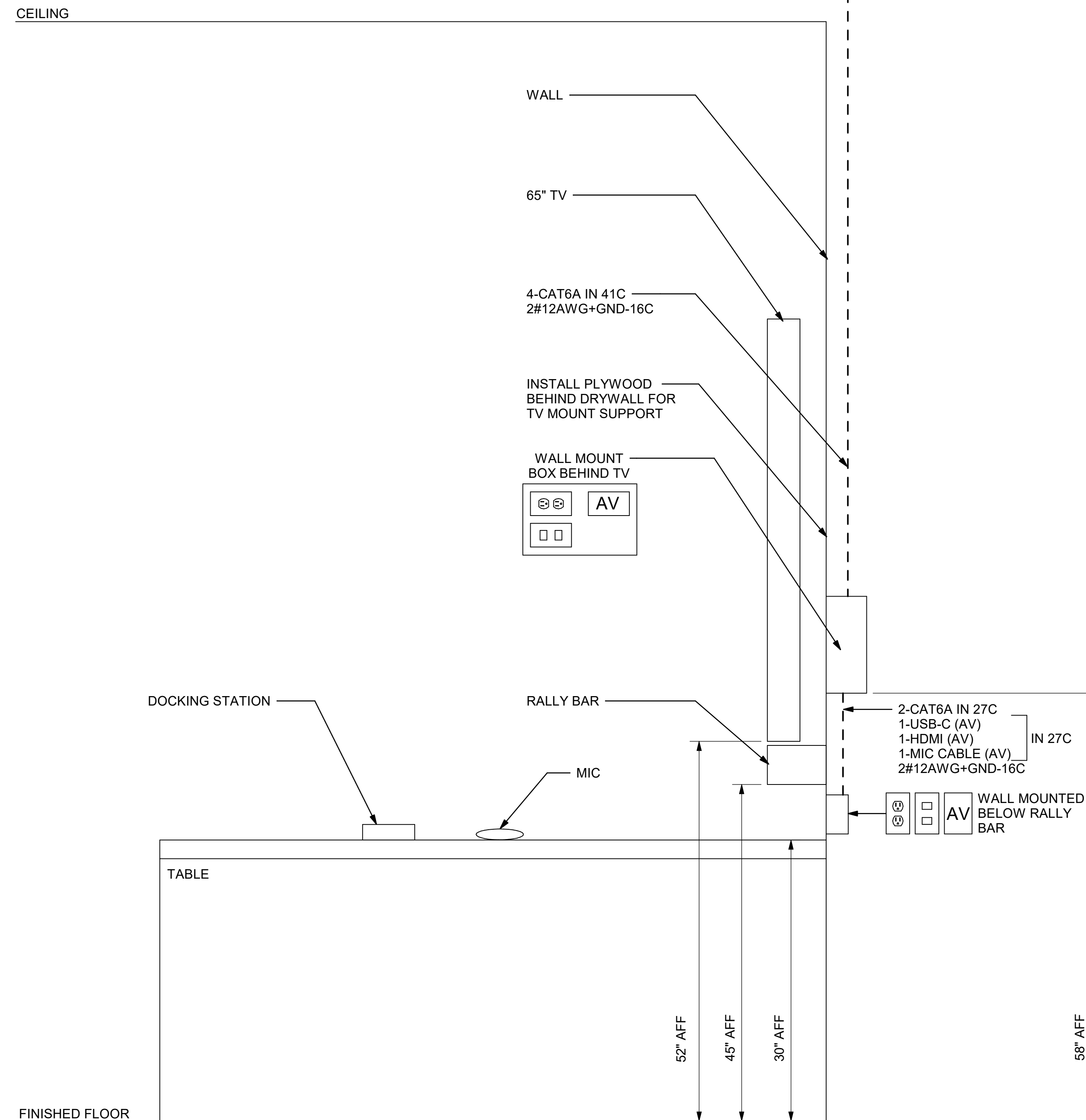
ISSUE
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LEGEND:

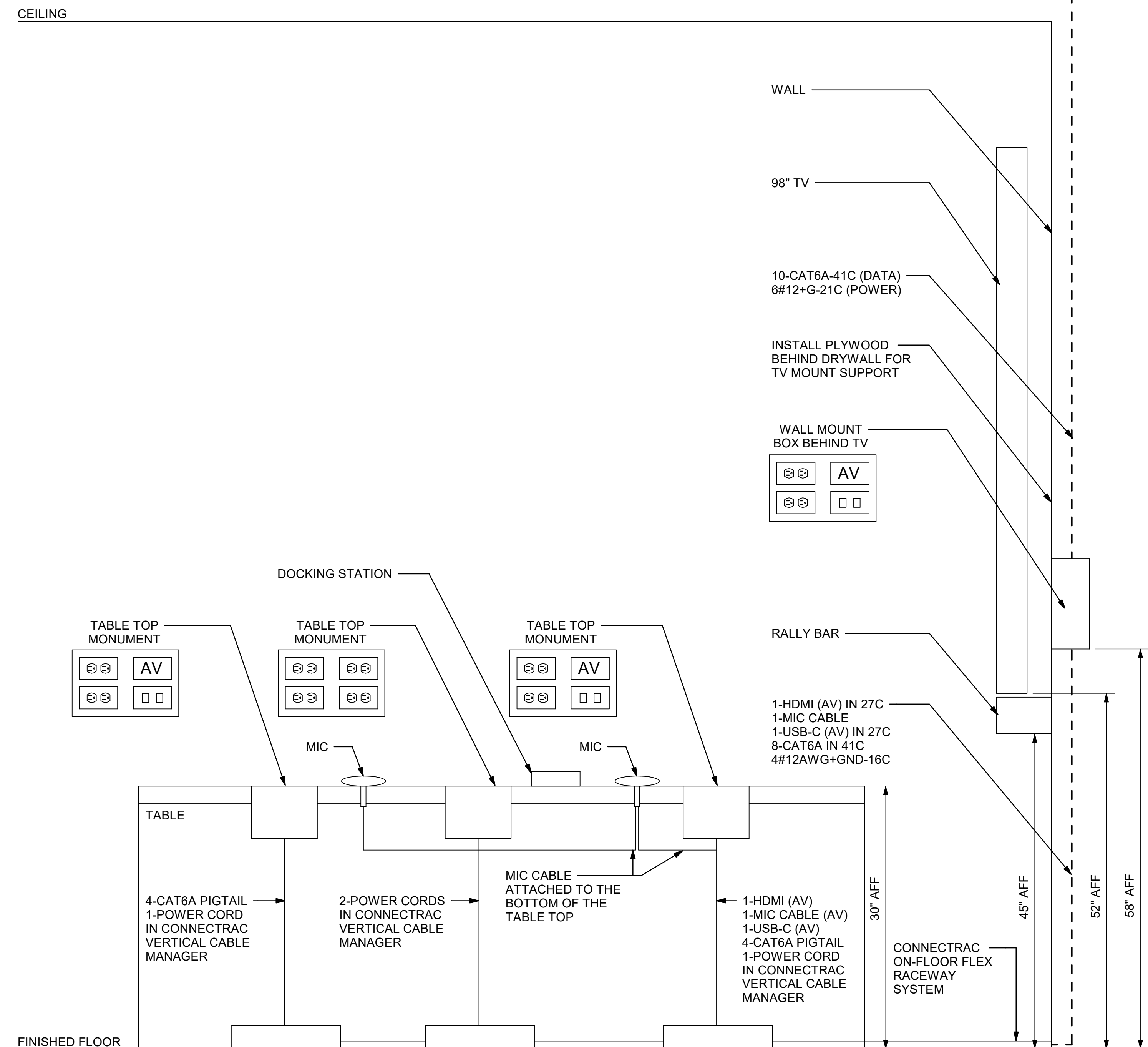
DUPLEX POWER RECEPTACLE

DATA OUTLET C/W 2 DATA JACKS

BRUSH GROMMET PLATE FOR AV CABLES PASS-THROUGH



1
 SMALL MEETING ROOM 112, 113, 115
 COMMUNICATIONS/AV DETAIL
 E4116



2
 LARGE MEETING ROOM 117
 COMMUNICATIONS/AV DETAIL
 E4116

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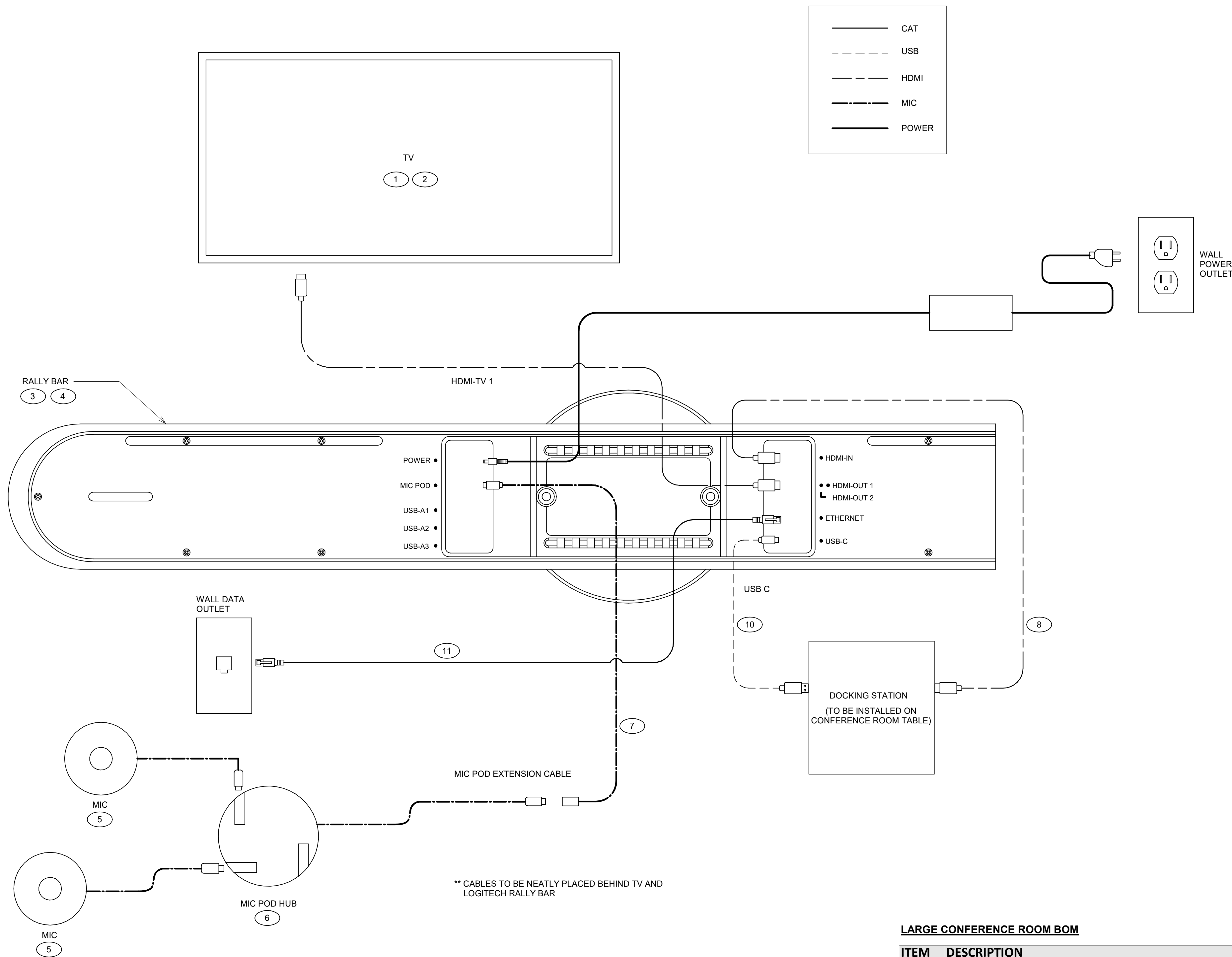
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ELECTRICAL AUXILIARY AV DETAILS SHEET 2 OF 3

SHEET NUMBER E4117	ISSUE D
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** CABLES TO BE NEATLY PLACED BEHIND TV AND LOGITECH RALLY BAR

RALLY BAR WIRING DETAIL - LARGE CONFERENCE RM

1
 E4117

LARGE CONFERENCE ROOM BOM

ITEM	DESCRIPTION	PROVIDED BY	QTY
1	98" TV DISPLAY SAMSUNG LH98QMTBPGCXZA SAMSUNG 98IN UHD NON-GLARE IPSX RATED 24 OR APPROVED EQUIVALENT	CONTRACTOR	1
2	TV BRACKET - CHIEF XTM MICRO-ADJUST TILT WALL MOUNT, X-LARGE1U OR APPROVED EQUIVALENT	CONTRACTOR	1
3	LOGITECH RALLY BAR - GRAPHITE - 960-001308 OR APPROVED EQUIVALENT	CONTRACTOR	1
4	LOGITECH - WALL MOUNT FOR RALLY BAR 952-000044 OR APPROVED EQUIVALENT	CONTRACTOR	1
5	LOGITECH RALLY MIC POD - 989-000430 OR APPROVED EQUIVALENT	CONTRACTOR	3
6	LOGITECH RALLY MIC POD HUB 939-001647 OR APPROVED EQUIVALENT	CONTRACTOR	1
7	LOGITECH MIC POD EXTENSION CABLE 952-000047 OR APPROVED EQUIVALENT	CONTRACTOR	2
8	KRAMER ELECTRONICS C-HM/HM25-HDMI 25FT CABLE OR APPROVED EQUIVALENT	CONTRACTOR	1
9	INFINITE CABLES PB-021-BK 6 OUTLET POWER STRIP - 10FT CORD, DOWN ANGLE PLUG, METAL HOUSING - BLACK OR APPROVED EQUIVALENT	CONTRACTOR	1
10	LOGITECH STRONG USB CABLE - 32.8FT USB/USB-C (939-001799) OR APPROVED EQUIVALENT	CONTRACTOR	2
11	CAT6A COPPER PATCH CORD	CONTRACTOR	1

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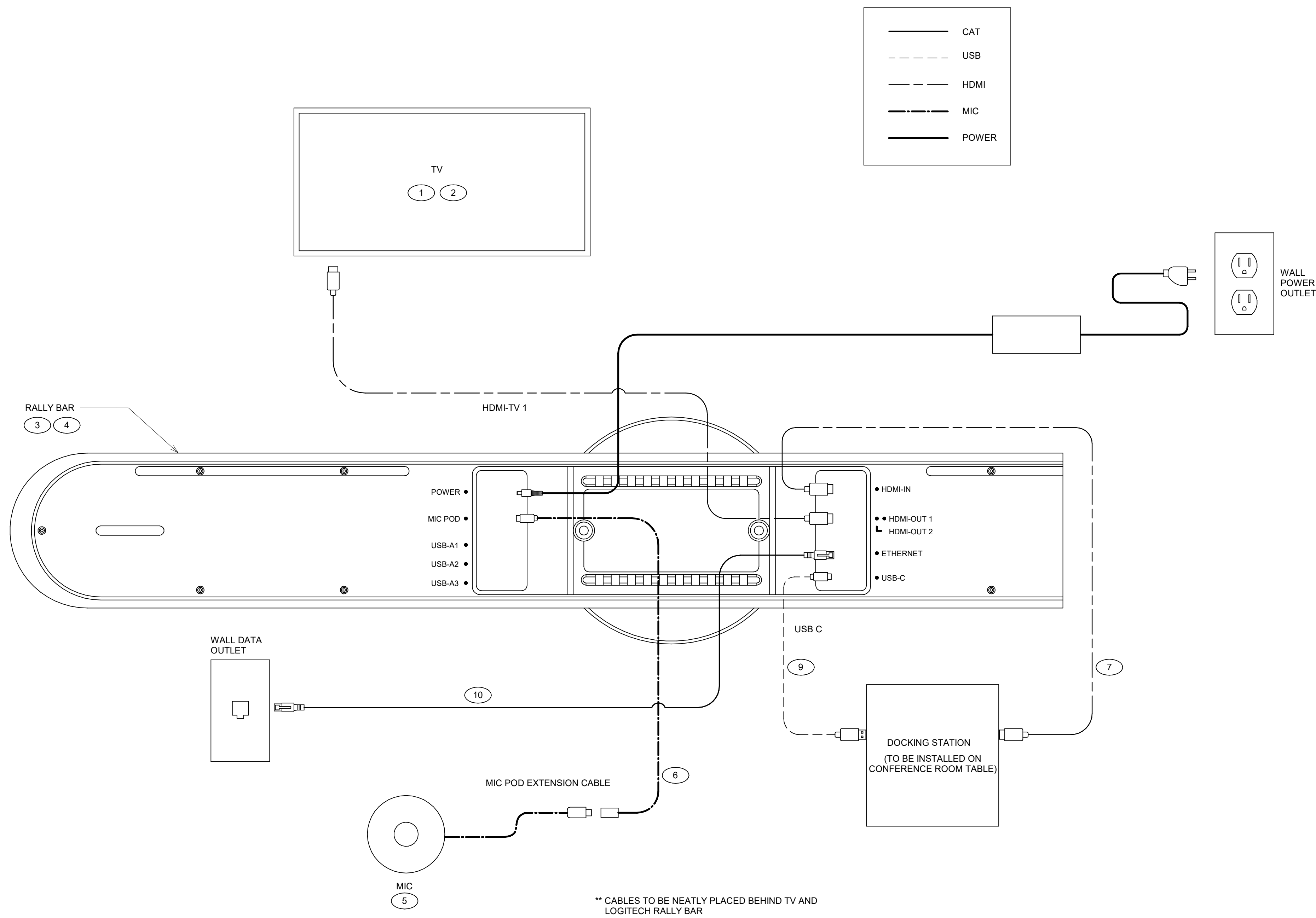
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SHEET TITLE
ELECTRICAL AUXILIARY AV DETAILS SHEET 3 OF 3

SHEET NUMBER E4118	ISSUE D
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RALLY BAR WIRING DETAIL - SMALL CONFERENCE RM

1
 E4118

SMALL CONFERENCE ROOMS BOM

ITEM	DESCRIPTION	PROVIDED BY	QTY
1	65" TV DISPLAY SAMSUNG 65IN 60HZ D-LED 3-SIDED BEZEL-LE LH65QETELGCXGO OR APPROVED EQUIVALENT	CITY	3
2	TV BRACKET - CHIEF LTM MICRO-ADJUST TILT WALL MOUNT LARGE LTM1U OR APPROVED EQUIVALENT	CONTRACTOR	3
3	LOGITECH RALLY BAR MINI - GRAPHITE LOGITECH 960-001336 OR APPROVED EQUIVALENT	CONTRACTOR	3
4	LOGITECH - WALL MOUNT FOR RALLY BAR 952-000041 OR APPROVED EQUIVALENT	CONTRACTOR	3
5	LOGITECH RALLY MIC POD - 989-000430 OR APPROVED EQUIVALENT	CONTRACTOR	3
6	LOGITECH MIC POD EXTENSION CABLE 952-000047 OR APPROVED EQUIVALENT	CONTRACTOR	3
7	KRAMER ELECTRONICS C-HM/HM25-HDMI 25FT CABLE OR APPROVED EQUIVALENT	CONTRACTOR	6
8	INFINITE CABLES PB-021-BK 6 OUTLET POWER STRIP - 10FT CORD, DOWN ANGLE PLUG, METAL HOUSING - BLACK OR APPROVED EQUIVALENT	CONTRACTOR	3
9	LOGITECH STRONG USB CABLE - 32.8FT USB/USB-C (939-001799) OR APPROVED EQUIVALENT	CONTRACTOR	3
10	CAT6A COPPER PATCH CORD	CONTRACTOR	3