ADDENDUM NO. 1

RE:	Indiana University Bloomington BL053 - IMU Biddle Hotel – Data Upgrades
OWNER:	The Trustees of Indiana University Bloomington, Indiana
PROJECT No.	20222853
CMTA PROJECT	IUBH23
DATE:	May 28, 2024
ISSUED BY:	CMTA Inc. 9225 Priority Way West Drive, Suite 130 Indianapolis, IN 46240
TO:	Bidders

This Addendum modifies the Bidding Documents dated May 13, 2024, and will become part of the Contract Documents. Acknowledge receipt of this Addendum on Bid Form. Failure to do so may subject the Bidder to disqualification.

GENERAL CLARIFICATIONS:

1. All references to “PVC conduit” have been removed from the drawings. Per specifications, EMT conduit to be used for all building interior pathways.
2. Clarification to General Note “F” on applicable sheets, note shall read: “REFER TO "SYSTEM INSTALLATION MATRIX" (ON E001 LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.”

CHANGES TO BIDDING REQUIREMENTS:

None.

CHANGES TO SPECIFICATIONS:

None.

CHANGES TO DRAWINGS:

1. Sheet E001 – ELECTRICAL LEGEND
    a. Clarification to General Notes “C” and “KK”.
    b. Light fixture schedule updated for color temperature of 3500K for all light fixtures.
2. Sheet E100 – GROUND FLOOR - INTERCONNECTION PLAN
    a. Revised tagged notes #E5, #E6, and #E12. Added tagged note #39.
    b. Existing access controls cabinet indicated on drawings for reference.
3. Sheet E101 – MAIN FLOOR - INTERCONNECTION PLAN
    a. Revised tagged note #E12.
4. Sheet E201 – FIRST FLOOR ELECTRICAL PLAN
    a. Revised tagged notes #E12, #E14, and #E17.
5. Sheet E202 – SECOND FLOOR ELECTRICAL PLAN
    a. Revised tagged notes #E12, #E14, and #E17.
6. Sheet E203 – THIRD FLOOR ELECTRICAL PLAN
    a. Revised tagged notes #E12, #E14, #E17, and #E30. Added tagged note #E40.
    b. New door access controller location indicated in IDF 350A. See added tagged note #E40.
    c. Revised circuit designation for receptacle power.
    d. Mislabeled tagged note corrected to #E24.
7. Sheet E204 – FOURTH FLOOR ELECTRICAL PLAN
    a. Revised tagged notes #E12, #E14, #E17, and #E30.
8. Sheet E205 – FIFTH AND SIXTH FLOOR ELECTRICAL PLAN
    a. Revised tagged note #E14.
9. Sheet E300 – ELECTRICAL DETAILS
    a. Detail #1 removed. Refer to floor plans and Division 08 specifications for door access controls requirements.
    b. Revised notes for detail #4.
10. Sheet E301 – ELECTRICAL DETAILS
    a. Revised notes for detail #3.
11. Sheet E302 – DATA DISTRIBUTION RISER
    a. Revised notes.
12. Sheet H203 – THIRD FLOOR HVAC PLAN
    a. Revise Demolition Plan Note #4 to the following: “REMOVE EXISTING DRAIN PIPING FROM ICE MAKER TO HUB DRAIN COMPLETE. HUB DRAIN TO REMAIN.

GENERAL NOTES (LEGEND):

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

1 C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM LOCAL, STATE, FEDERAL, UTILITY COMPANY, OSHA, ETC.

D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.

J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

K. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.

M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

O. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT, ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

Y. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.

Z. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

AA. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.

BB. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.

CC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

DD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

EE. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

FF. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.

GG. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

HH. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

II. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.

JJ. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

1 KK. NOT USED.

LL. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECTS STANDARDS FOR SUCH WORK.

MM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

NN. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.

PP. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.

QQ. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH:GENERAL PURPOSE	46"	$
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$M
POWER OUTLETS		
DUPLEX RECEPTACLE	1'-6"	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J, K
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS SS
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
STRIP FIXTURE		
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE; ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED	6'-6" TO TOP	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
INDICATES EMERGENCY POWER		E,EM
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
DATA / VOICE		
DATA OUTLET : SEE FLOOR PLANS	1'-6"	
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD - SEE DIVISION 27 SPECIFICATIONS. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		TEL

DESCRIPTION											
SYSTEM RESPONSIBILITY MATRIX	ITEM USED ON PROJECT	DEVICES - O F O I	DEVICES - C F C I	DEVICES - F C I	BACK BOXES - O F O I	BACK BOXES - C F C I	BACK BOXES - F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - C F C I	CABLING/CONDUCTORS - F C I	SYSTEM SYMBOL
SYSTEM											
FIRE ALARM	●			●			●			●	□
DATA	●	●					●			●	▽
WIRELESS ACCESS POINTS	●	●					●			●	▽
SECURITY: ACCESS CONTROL	●	●					●			●	⬡

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
B. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
C. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS. TERMINATE CONDUITS AT CABINET/SON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
D. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
E. WHERE INDICATED AS CFCI, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. THE CONTRACTOR SHALL CONTACT THE LISTED VENDOR FOR PRICING PRIOR TO BID. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS. ALL SYSTEM VENDORS SHALL COORDINATE EXACT SYSTEM REQUIREMENTS WITH OWNER PRIOR TO BID. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE POSSIBLE. ALL NEW SYSTEM DESIGNS AND PROGRAMMING SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING. ALL PROGRAMMING SHALL BE INCLUDED AS REQUIRED BY THE OWNER. PROVIDE 4 HOURS OF TRAINING FOR EACH SYSTEM.

1 ELECTRICAL LEGEND

NO SCALE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A22	2X2 RECESSED BACK-LIT LED FLAT PANEL	LITHONIA #CPX-2X2-4000LM-80CRI-40K-SWL-MIN10-MVOLT	DAY BRITE #2FPZ-2, COLUMBIA #SRP22	RECESSED	3500K	4000	36	277	
SL4	4FT LED STRIP FIXTURE	LITHONIA #CLX-L48-4000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH-HC36M12	METALUX #SNLED, COLUMBIA #LCL	SUSPENDED	3500K	4000	25	277	
SSL4	4FT LED STRIP FIXTURE, SURFACE MOUNTED	LITHONIA #CLX-L48-4000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH	METALUX #SNLED, COLUMBIA #LCL	SURFACE	3500K	4000	25	277	PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR SURFACE MOUNT INSTALLATION

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LUMINAIRE SCHEDULE NOTES

1. ALL LIGHTS BE PROVIDED WITH UNIVERSAL 120/277 VOLTAGE.
2. ALL LIGHT FIXTURES AND LAMPS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. ALL LIGHT FIXTURES INSTALLED IN LAY-IN TYPE GRID CEILINGS SHALL BE INSTALLED WITH EARTHQUAKE CLIPS, AND PROVIDED WITH SAFETY HANGER WIRE OR CHAIN TO SUPPORT FIXTURES AS DETAILED IN THE LAY-IN LIGHT FIXTURE DETAIL.
4. ALL LIGHT FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL HAVE AN ENCLOSURE INSTALLED OVER THE FIXTURE MATCHING THE RATING OF THE CEILING IN WHICH THE FIXTURE IS INSTALLED. THE ENCLOSURE SHALL HAVE A MINIMUM OF 3 INCHES OF CLEARANCE BETWEEN THE ENCLOSURE AND THE FIXTURE HOUSING OR AS REQUIRED BY THE LIGHT FIXTURE MANUFACTURER.
5. ALL LIGHT FIXTURES INSTALLED IN DRYWALL OR PLASTER CEILINGS SHALL HAVE DRYWALL FLANGE KIT PROVIDED TO BE INSTALLED IN DRYWALL OR PLASTER.
6. THE CONTRACTOR SHALL VERIFY EXACT CEILING TYPES BEING FURNISHED AND PROVIDE SPECIFIED FIXTURES IN APPROPRIATE CONFIGURATIONS FOR THE CEILINGS BEING FURNISHED.
7. THE CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE INSTALLATIONS WITH THE ARCHITECTURAL CEILING PLANS AND PROVIDE APPROPRIATE MOUNTING HARDWARE FOR THE LIGHT FIXTURES.
8. LIGHT FIXTURES EQUIPPED WITH INTEGRAL EMERGENCY BATTERY BACKUP SHALL BE WIRED WITH UNSWITCHED "HOT" CIRCUIT CONDUCTOR FOR CONNECTION TO THE EMERGENCY BATTERY BACKUP. WHERE LED FIXTURE/DRIVER CANNOT BE PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACKUP THE CONTRACTOR SHALL PROVIDE BATTERY INVERTER SYSTEM TO POWER SAID FIXTURES. BATTERY INVERTERS SHALL BE INSTALLED IN ELECTRICAL CLOSETS ADJACENT TO PANELS SERVING THE LIGHTING CIRCUITS.
9. FOR PENDANT MOUNTED LIGHT FIXTURES, MAINTAIN UNIFORM MOUNTING HEIGHT OF FIXTURES THROUGH EACH AREA UNLESS OTHERWISE INDICATED.
10. PROVIDE UNSWITCHED HOT TO ALL EXIT SIGNS WHETHER INDICATED ON DRAWINGS OR NOT.

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MAY 13, 2024

CONSTRUCTION DOCUMENTS

WILLIAM R. STACY REGISTERED No. 10200105 STATE OF INDIANA PROFESSIONAL ENGINEER

20222853 - BL053 IMU BIDDLE HOTEL - DATA UPGRADES
INDIANA UNIVERSITY
900 E 7TH STREET, BLOOMINGTON, IN 47405

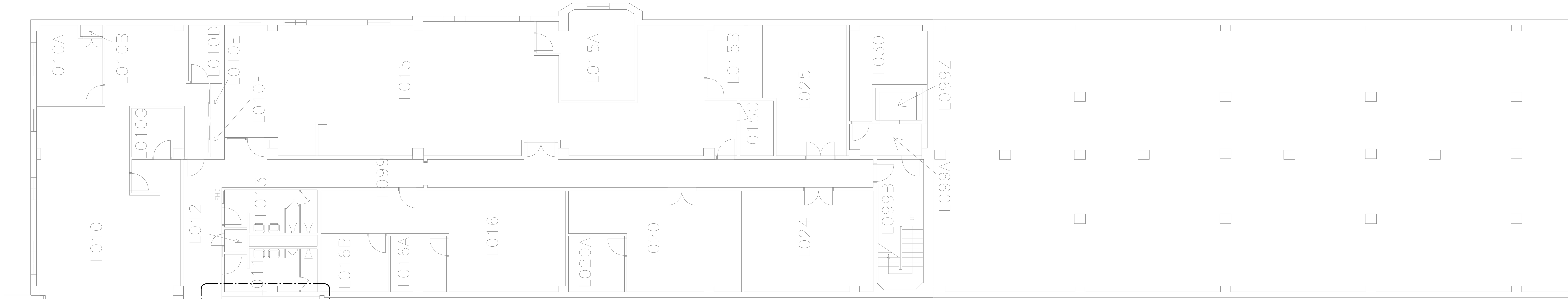
ELECTRICAL LEGEND

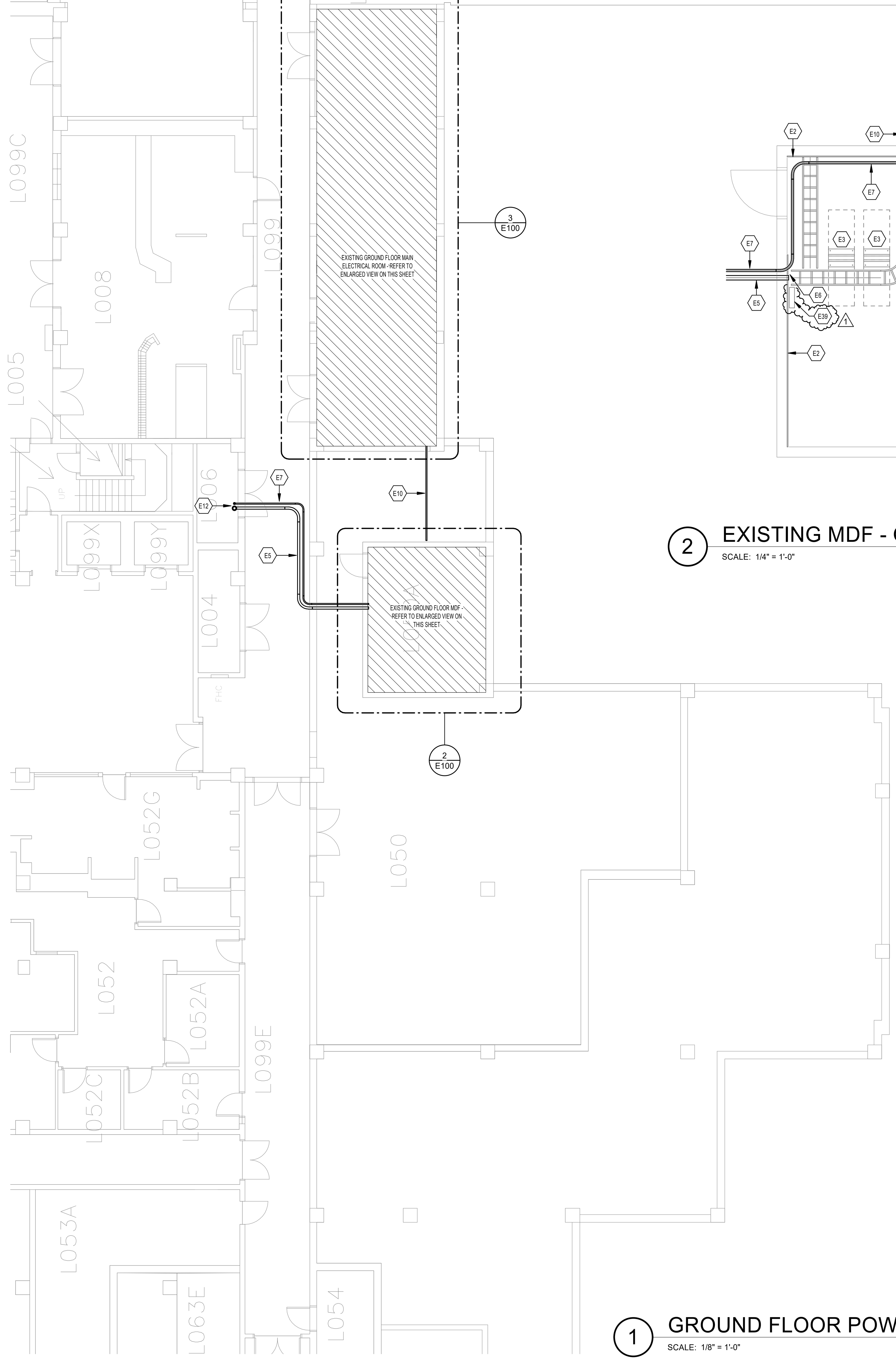
CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

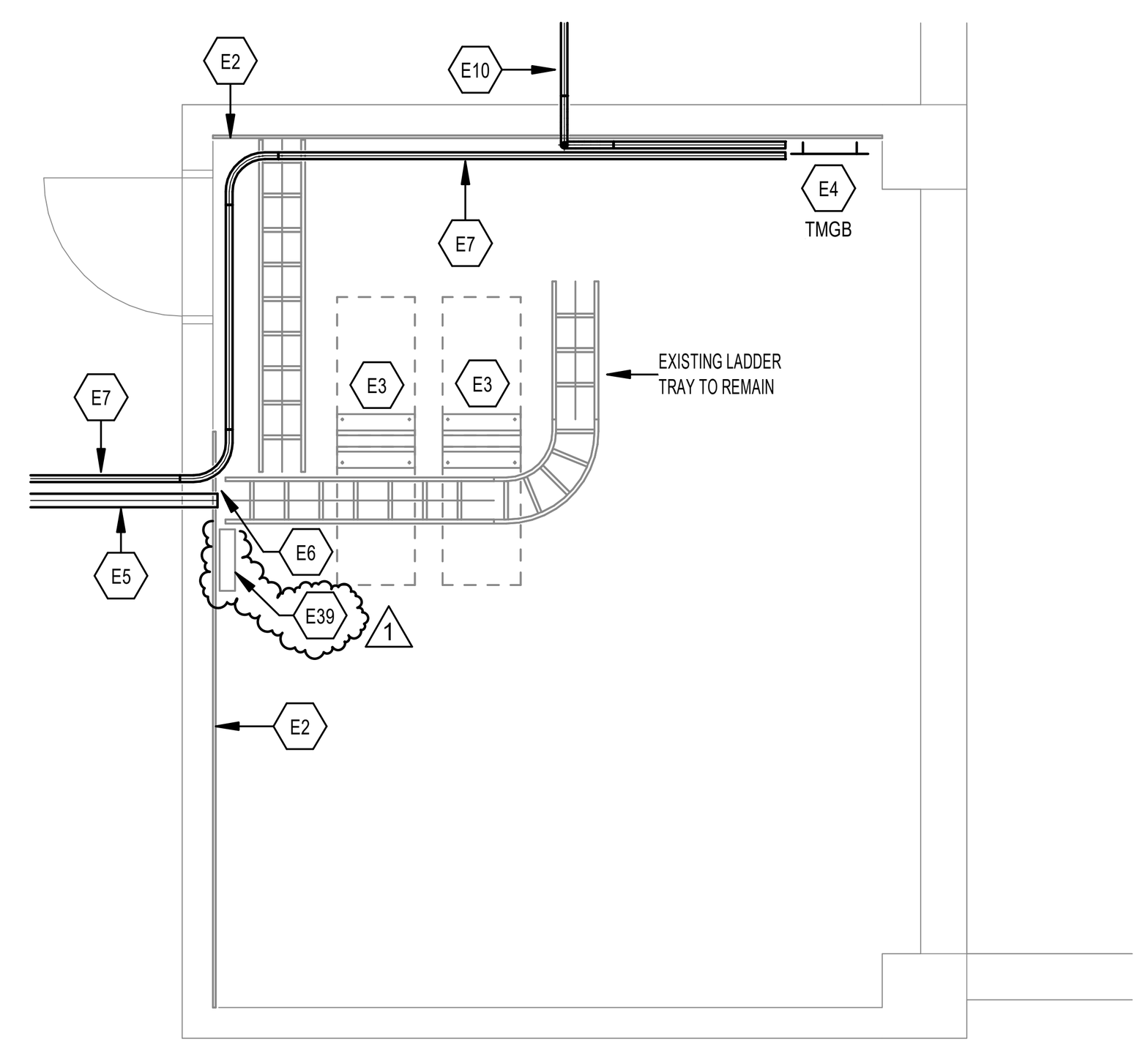
E001





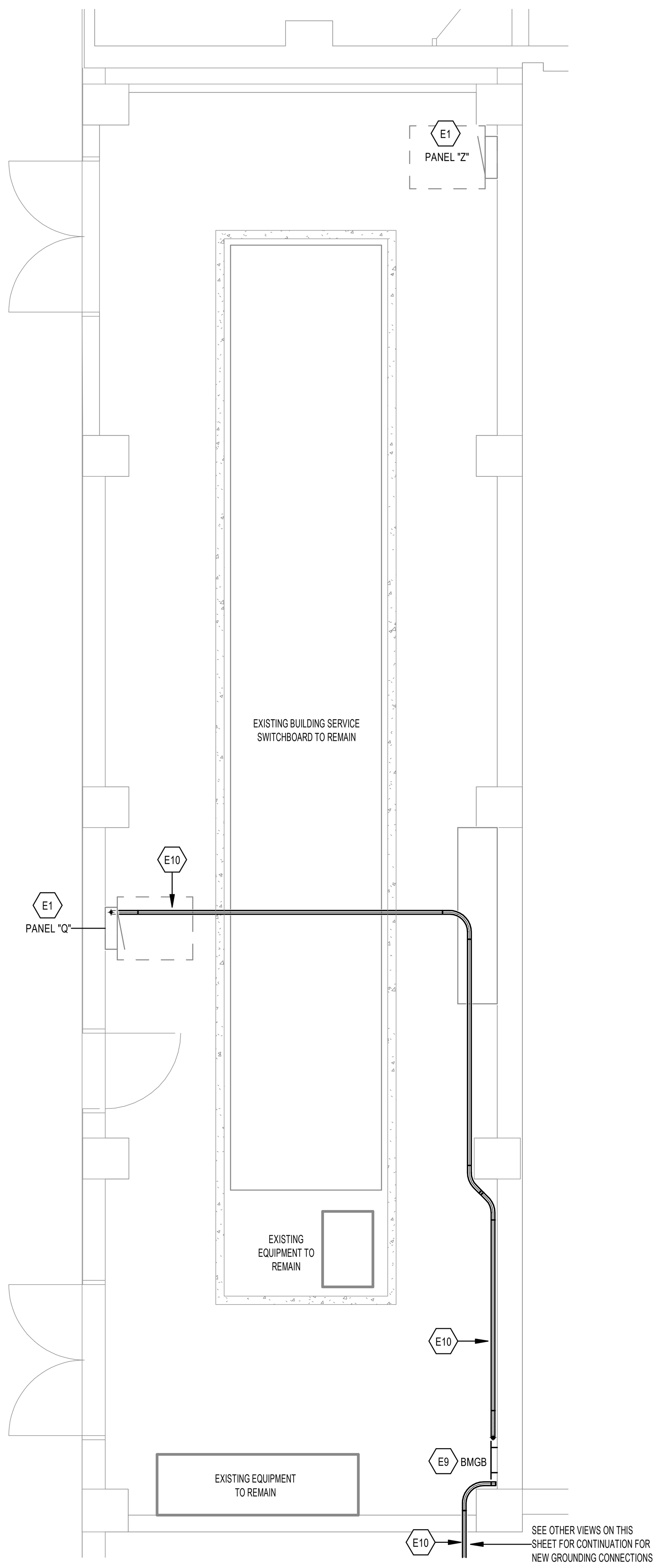
1 GROUND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



2 EXISTING MDF - GROUND FLOOR

SCALE: 1/4" = 1'-0"



3 EXISTING MAIN ELECTRICAL ROOM - GROUND FLOOR

SCALE: 1/4" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON E001 LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

E1 EXISTING ELECTRICAL PANEL(S) TO REMAIN.

E2 EXISTING TELECOM BACKBOARD AND ALL EXISTING EQUIPMENT TO REMAIN. EQUIPMENT AND CONNECTIONS TO REMAIN FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

E3 EXISTING OWNER'S MDF RACKS TO REMAIN. CONTRACTOR TO COORDINATE WITH OWNER FOR NEW FIBER CONNECTION FROM EXISTING MDF TO NEW IDF ON 4TH FLOOR.

E4 PROVIDE NEW TELECOM GROUNDING BUSBAR (TMBG) IN EXISTING MDF, MOUNT AT 18". REFER TO DETAIL #4 ON SHEET E300. NEW GROUND BAR TMGB WILL REPLACE EXISTING. RECONNECT ALL EXISTING TO REMAIN GROUNDING CONNECTIONS TO NEW TMGB AS REQUIRED.

1 E5 PROPOSED ROUTE FOR ONE (1) 3" CONDUIT FOR NEW FIBER AND DATA CABLING CONNECTION(S) FROM EXISTING MDF TO NEW 4TH FLOOR IDF. REFER TO FLOOR PLANS, DETAILS, DATA DISTRIBUTION RISER, AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CONTRACTOR TO FIELD VERIFY PROPOSED ROUTE AND NOTIFY ENGINEER OF ANY ISSUES OR UNFORSEEN HINDRANCES PRIOR TO CONSTRUCTION.

E6 UTILIZE EXISTING OPENING IN CMU WALL FOR PROPOSED CONDUIT ROUTING. MODIFY EXISTING PENETRATION OPENING AS REQUIRED FOR NEW CONDUIT ROUTINGS INDICATED ON THESE PLANS. SEAL OPENING AS REQUIRED TO MAINTAIN FIRE RATING, REFER TO DETAIL #2 ON SHEET E301.

E7 PROPOSED ROUTE, IN ONE (1) NEW 1-1/2" CONDUIT, FOR (1) #3/0 GROUNDING CONNECTION FROM NEW MAIN TELECOM GROUNDING BAR TO EXISTING/NEW IDFS ON OTHER LEVELS. REFER TO GROUNDING SYSTEM DETAILS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. SEE FLOORPLANS FOR NEW IDF GROUND BAR LOCATIONS. REFER TO OTHER FLOOR PLANS FOR CONTINUATION OF PROPOSED CONDUIT ROUTE. CONTRACTOR TO FIELD VERIFY PROPOSED ROUTE AND NOTIFY ENGINEER OF ANY ISSUES OR UNFORSEEN HINDRANCES PRIOR TO CONSTRUCTION.

E9 PROVIDE NEW MAIN SERVICE GROUND BAR BMGB, MOUNTED AT 48". REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E10 PROVIDE ONE (1) 1-1/2" CONDUIT FOR ONE (1) NEW #3/0 INSULATED COPPER GROUNDING WIRE FROM NEW MAIN SERVICE GROUND BAR (BMGB) TO NEW MAIN TELECOM GROUNDING BAR (TMGB) IN EXISTING MDF. CONTRACTOR TO FIELD VERIFY PROPOSED ROUTE AND NOTIFY ENGINEER OF ANY ISSUES OR UNFORSEEN HINDRANCES PRIOR TO CONSTRUCTION.

E12 CONTINUATION OF PROPOSED CONDUIT ROUTES FOR NEW GROUNDING, FIBER, AND DATA CABLING CONNECTIONS UP TO OTHER FLOORS. SEE FLOOR PLANS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E39 EXISTING ACCESS CONTROLS CABINET TO REMAIN.

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MAY 13, 2024

CONSTRUCTION DOCUMENTS

WILLIAM R. STACEY REGISTERED No. 10200105 STATE OF INDIANA PROFESSIONAL ENGINEER

20222853 - BL053 IMU BIDDLE HOTEL - DATA UPGRADES
INDIANA UNIVERSITY
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GROUND FLOOR - INTERCONNECTION PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

E100

1 MAIN FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

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F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON E001 LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

1 E12 CONTINUATION OF PROPOSED CONDUIT ROUTES FOR NEW GROUNDING, FIBER, AND DATA CABLING CONNECTIONS UP TO OTHER FLOORS. SEE FLOOR PLANS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS AND INFORMATION.

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CONSTRUCTION DOCUMENTS

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20222853 - BL053 IMU BIDDLE HOTEL - DATA UPGRADES

INDIANA UNIVERSITY

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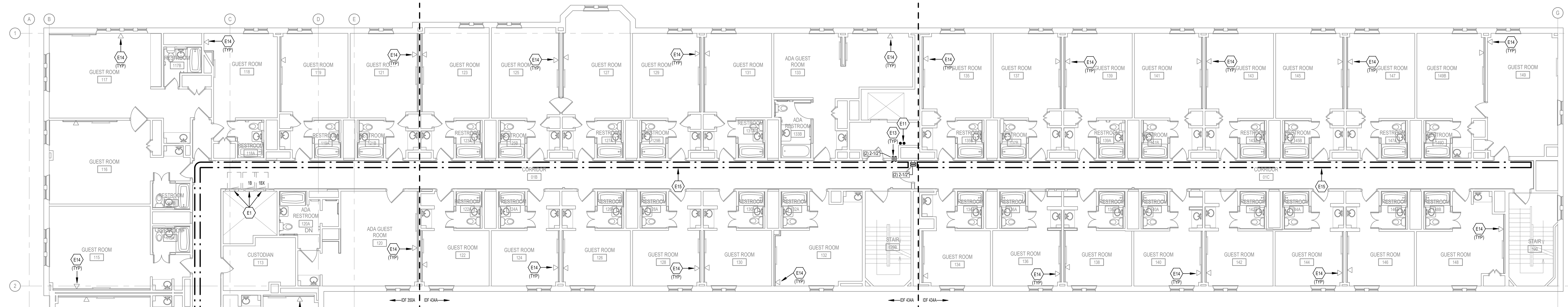
MAIN FLOOR - INTERCONNECTION PLAN

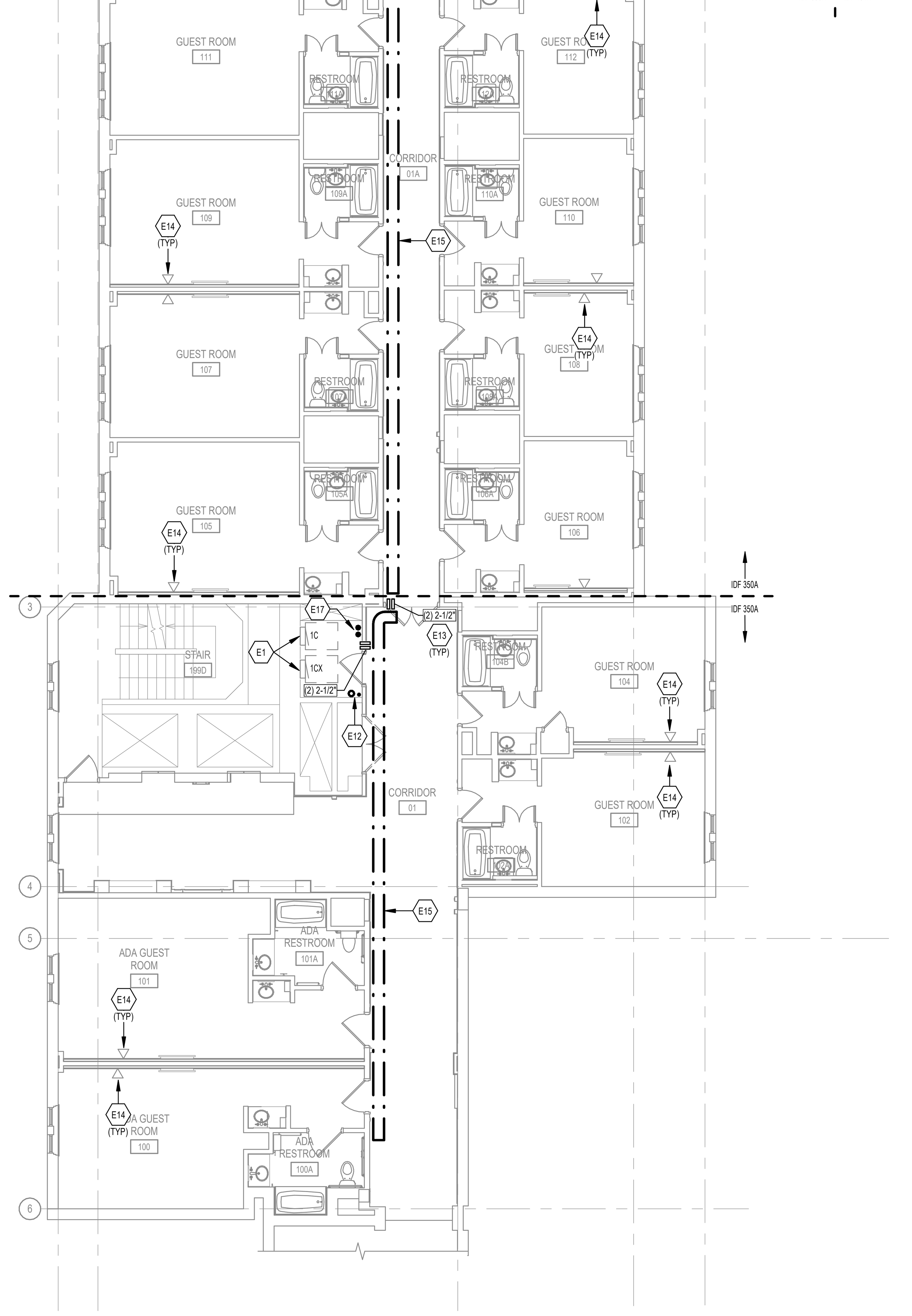
CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

E101





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E11 PROVIDE TWO (2) 4" CONDUIT SLEEVES IN THIS ROOM FOR PATHWAYS UP TO AND DOWN FROM OTHER LEVELS FOR CABLE ROUTES. ON EACH FLOOR, CONDUITS TO ROUTE UP TO ABOVE ACCESSIBLE CEILING SPACE FOR CABLE ROUTING THROUGH WALL SLEEVES AT ADJACENT CORRIDOR SPACE(S).

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1 FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

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20222853 - BL053 IMU BIDDLE HOTEL - DATA UPGRADES

INDIANA UNIVERSITY

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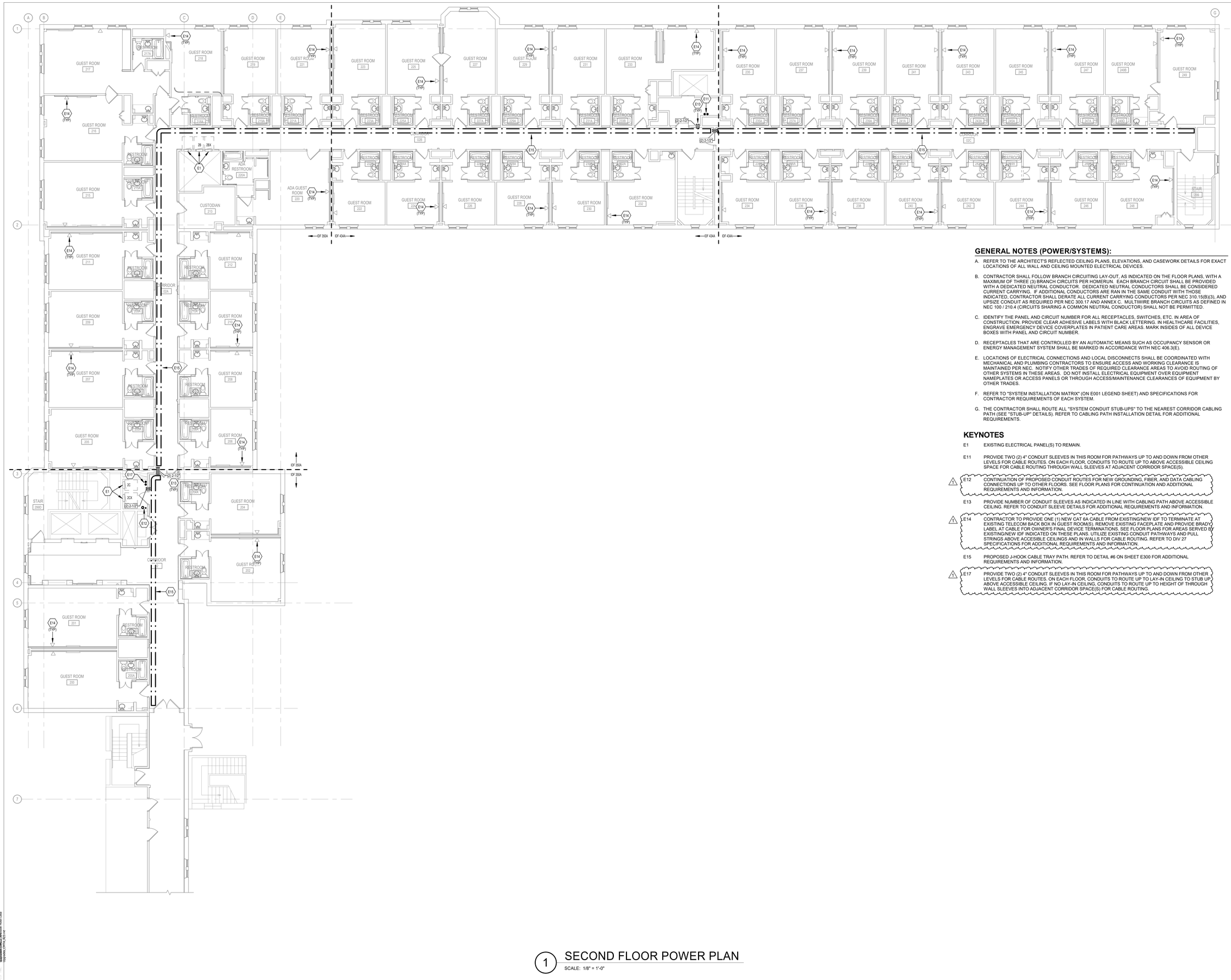
FIRST FLOOR ELECTRICAL PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

E201



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KEYNOTES

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1 SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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MAY 13, 2024

CONSTRUCTION DOCUMENTS

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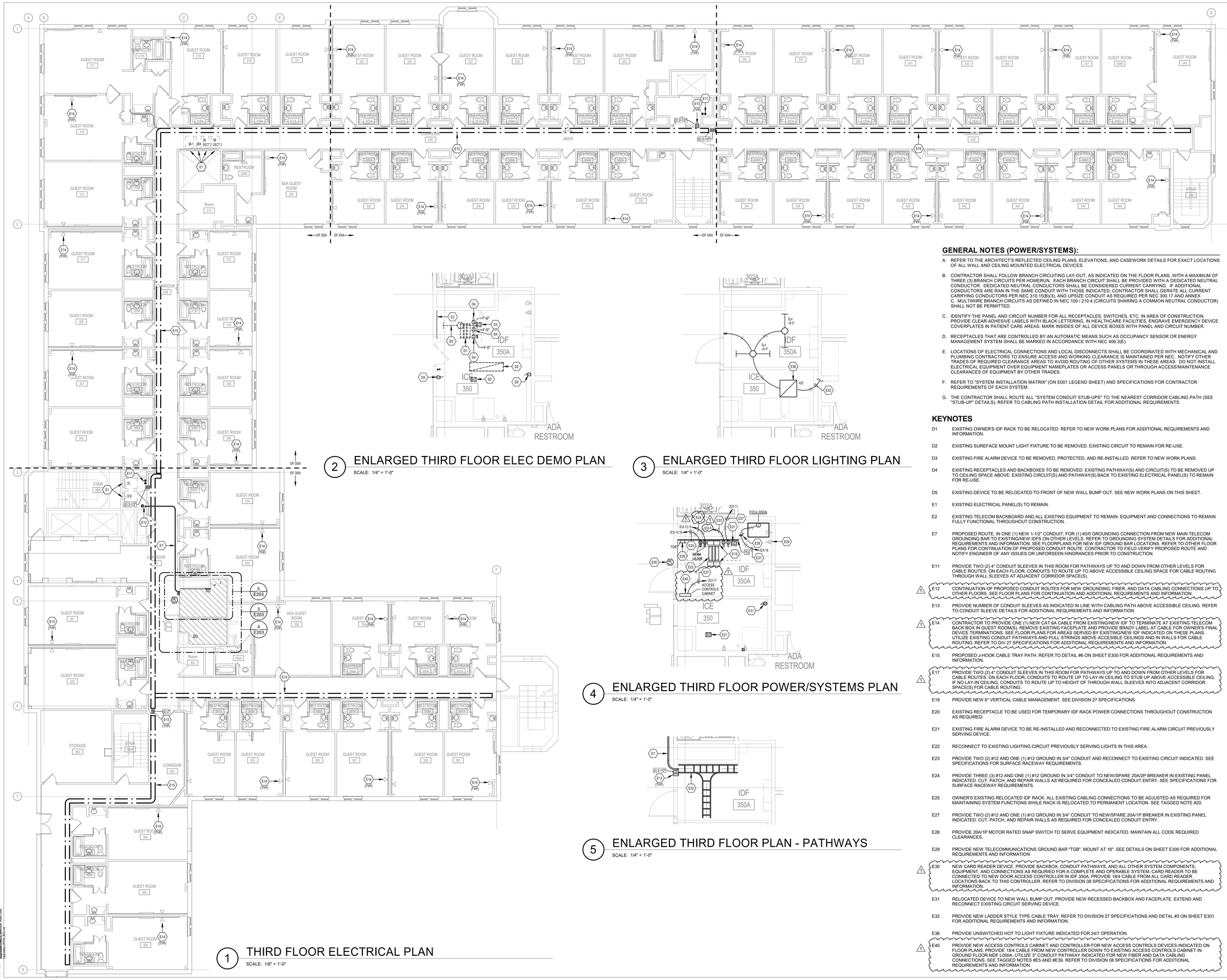
SECOND FLOOR ELECTRICAL PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

E202



2 ENLARGED THIRD FLOOR ELEC DEMO PLAN

SCALE: 1/4" = 1'-0"

3 ENLARGED THIRD FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

4 ENLARGED THIRD FLOOR POWER/SYSTEMS PLAN

SCALE: 1/4" = 1'-0"

5 ENLARGED THIRD FLOOR PLAN - PATHWAYS

SCALE: 1/4" = 1'-0"

1 THIRD FLOOR ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

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KEYNOTES

D1 EXISTING OWNER'S IDF RACK TO BE RELOCATED. REFER TO NEW WORK PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

D2 EXISTING SUREFACE MOUNT LIGHT FIXTURE TO BE REMOVED. EXISTING CIRCUIT TO REMAIN FOR RE-USE.

D3 EXISTING FIRE ALARM DEVICE TO BE REMOVED, PROTECTED, AND RE-INSTALLED. REFER TO NEW WORK PLANS.

D4 EXISTING RECEPTACLES AND BACKBOXES TO BE REMOVED. EXISTING PATHWAY(S) AND CIRCUIT(S) TO BE REMOVED UP TO CEILING SPACE ABOVE. EXISTING CIRCUIT(S) AND PATHWAY(S) BACK TO EXISTING ELECTRICAL PANEL(S) TO REMAIN FOR RE-USE.

D5 EXISTING DEVICE TO BE RELOCATED TO FRONT OF NEW WALL BUMP OUT. SEE NEW WORK PLANS ON THIS SHEET.

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E13 PROVIDE NUMBER OF CONDUIT SLEEVES AS INDICATED IN LINE WITH CABLING PATH ABOVE ACCESSIBLE CEILING. REFER TO CONDUIT SLEEVE DETAILS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E14 CONTRACTOR TO PROVIDE ONE (1) NEW CAT 6A CABLE FROM EXISTING/NEW IDF TO TERMINATE AT EXISTING TELECOM BACK BOX IN GUEST ROOM(S). REMOVE EXISTING FACEPLATE AND PROVIDE BRADY LABEL AT CABLE FOR OWNER'S FINAL DEVICE TERMINATIONS. SEE FLOOR PLANS FOR AREAS SERVED BY EXISTING/NEW IDF INDICATED ON THESE PLANS. UTILIZE EXISTING CONDUIT PATHWAYS AND PULL STRINGS ABOVE ACCESSIBLE CEILINGS AND IN WALLS FOR CABLE ROUTING. REFER TO DIV 27 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E15 PROPOSED J-HOOK CABLE TRAY PATH. REFER TO DETAIL #6 ON SHEET E300 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E17 PROVIDE TWO (2) 4" CONDUIT SLEEVES IN THIS ROOM FOR PATHWAYS UP TO AND DOWN FROM OTHER LEVELS FOR CABLE ROUTES. ON EACH FLOOR, CONDUITS TO ROUTE UP TO LAY-IN CEILING TO STUB UP ABOVE ACCESSIBLE CEILING. IF NO LAY-IN CEILING, CONDUITS TO ROUTE UP TO HEIGHT OF THROUGH WALL SLEEVES INTO ADJACENT CORRIDOR SPACE(S) FOR CABLE ROUTING.

E19 PROVIDE NEW 6" VERTICAL CABLE MANAGEMENT. SEE DIVISION 27 SPECIFICATIONS.

E20 EXISTING RECEPTACLE TO BE USED FOR TEMPORARY IDF RACK POWER CONNECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED.

E21 EXISTING FIRE ALARM DEVICE TO BE RE-INSTALLED AND RECONNECTED TO EXISTING FIRE ALARM CIRCUIT PREVIOUSLY SERVING DEVICE.

E22 RECONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING LIGHTS IN THIS AREA.

E23 PROVIDE TWO (2) #12 AND ONE (1) #12 GROUND IN 3/4" CONDUIT AND RECONNECT TO EXISTING CIRCUIT INDICATED. SEE SPECIFICATIONS FOR SURFACE RACEWAY REQUIREMENTS.

E24 PROVIDE THREE (3) #12 AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED. CUT, PATCH, AND REPAIR WALLS AS REQUIRED FOR CONCEALED CONDUIT ENTRY. SEE SPECIFICATIONS FOR SURFACE RACEWAY REQUIREMENTS.

E25 OWNER'S EXISTING RELOCATED IDF RACK. ALL EXISTING CABLING CONNECTIONS TO BE ADJUSTED AS REQUIRED FOR MAINTAINING SYSTEM FUNCTIONS WHILE RACK IS RELOCATED TO PERMANENT LOCATION. SEE TAGGED NOTE #20.

E27 PROVIDE TWO (2) #12 AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER IN EXISTING PANEL INDICATED. CUT, PATCH, AND REPAIR WALLS AS REQUIRED FOR CONCEALED CONDUIT ENTRY.

E28 PROVIDE 20A/1P MOTOR RATED SNAP SWITCH TO SERVE EQUIPMENT INDICATED. MAINTAIN ALL CODE REQUIRED CLEARANCES.

E29 PROVIDE NEW TELECOMMUNICATIONS GROUND BAR "TGB", MOUNT AT 18". SEE DETAILS ON SHEET E300 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E30 NEW CARD READER DEVICE. PROVIDE BACKBOX, CONDUIT PATHWAYS, AND ALL OTHER SYSTEM COMPONENTS, EQUIPMENT, AND CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CARD READER TO BE CONNECTED TO NEW DOOR ACCESS CONTROLLER IN IDF 350A. PROVIDE 18/4 CABLE FROM ALL CARD READER LOCATIONS BACK TO THIS CONTROLLER. REFER TO DIVISION 08 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E31 RELOCATED DEVICE TO NEW WALL BUMP OUT. PROVIDE NEW RECESSED BACKBOX AND FACEPLATE. EXTEND AND RECONNECT EXISTING CIRCUIT SERVING DEVICE.

E32 PROVIDE NEW LADDER STYLE TYPE CABLE TRAY. REFER TO DIVISION 27 SPECIFICATIONS AND DETAL #3 ON SHEET E301 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E36 PROVIDE UNSWITCHED HOT TO LIGHT FIXTURE INDICATED FOR 24/7 OPERATION.

1 E40 PROVIDE NEW ACCESS CONTROLS CABINET AND CONTROLLER FOR NEW ACCESS CONTROLS DEVICES INDICATED ON FLOOR PLANS. PROVIDE 18/4 CABLE FROM NEW CONTROLLER DOWN TO EXISTING ACCESS CONTROLS CABINET IN GROUND FLOOR MDF L050A. UTILIZE 3" CONDUIT PATHWAY INDICATED FOR NEW FIBER AND DATA CABLING CONNECTIONS. SEE TAGGED NOTES #E5 AND #E39. REFER TO DIVISION 08 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

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MAY 13, 2024

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20222853 - BL053 IMU BIDDLE HOTEL - DATA UPGRADES

INDIANA UNIVERSITY

900 E 7TH STREET, BLOOMINGTON, IN 47405

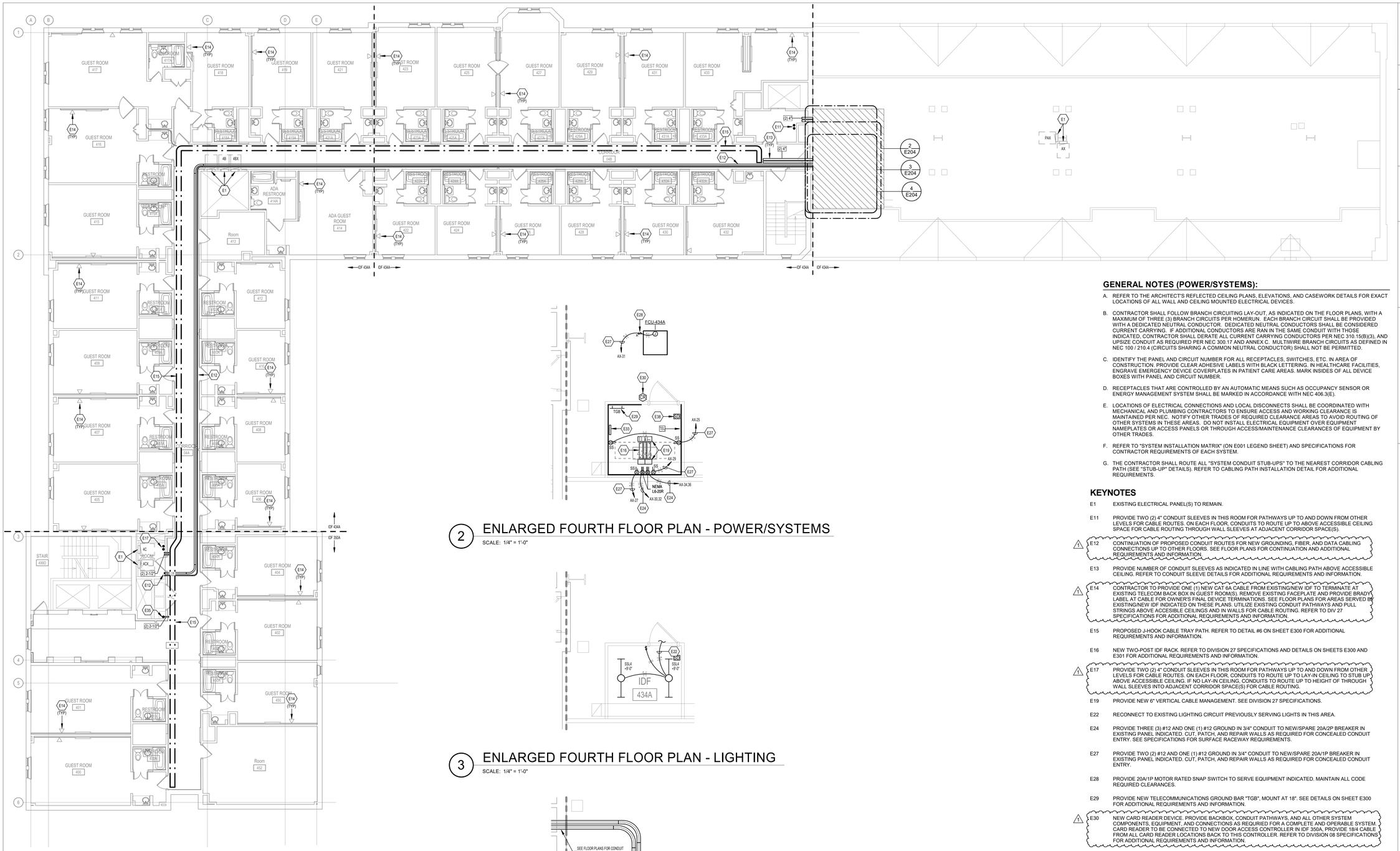
THIRD FLOOR ELECTRICAL PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
CHECKED:	WRS

REVISIONS

1	ADDENDUM 01	05/28/24

E203



1 FOURTH FLOOR POWER PLAN

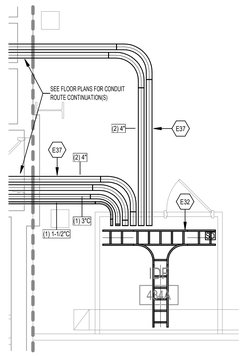
SCALE: 1/8" = 1'-0"

2 ENLARGED FOURTH FLOOR PLAN - POWER/SYSTEMS

SCALE: 1/4" = 1'-0"

3 ENLARGED FOURTH FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"



4 ENLARGED FOURTH FLOOR PLAN - PATHWAYS

SCALE: 1/4" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON E001 LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

E1 EXISTING ELECTRICAL PANEL(S) TO REMAIN.

E11 PROVIDE TWO (2) 4" CONDUIT SLEEVES IN THIS ROOM FOR PATHWAYS UP TO AND DOWN FROM OTHER LEVELS FOR CABLE ROUTES. ON EACH FLOOR, CONDUITS TO ROUTE UP TO ABOVE ACCESSIBLE CEILING SPACE FOR CABLE ROUTING THROUGH WALL SLEEVES AT ADJACENT CORRIDOR SPACE(S).

1 E12 CONTINUATION OF PROPOSED CONDUIT ROUTES FOR NEW GROUNDING, FIBER, AND DATA CABLING CONNECTIONS UP TO OTHER FLOORS. SEE FLOOR PLANS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS AND INFORMATION.

E13 PROVIDE NUMBER OF CONDUIT SLEEVES AS INDICATED IN LINE WITH CABLING PATH ABOVE ACCESSIBLE CEILING. REFER TO CONDUIT SLEEVE DETAILS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E14 CONTRACTOR TO PROVIDE ONE (1) NEW CAT 6A CABLE FROM EXISTING/NEW IDF TO TERMINATE AT EXISTING TELECOM BACK BOX IN GUEST ROOM(S). REMOVE EXISTING FACEPLATE AND PROVIDE BRADY LABEL AT CABLE FOR OWNER'S FINAL DEVICE TERMINATIONS. SEE FLOOR PLANS FOR AREAS SERVED BY EXISTING/NEW IDF INDICATED ON THESE PLANS. UTILIZE EXISTING CONDUIT PATHWAYS AND PULL STRINGS ABOVE ACCESIBLE CEILINGS AND IN WALLS FOR CABLE ROUTING. REFER TO DIV 27 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E15 PROPOSED J-HOOK CABLE TRAY PATH. REFER TO DETAIL #6 ON SHEET E300 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E16 NEW TWO-POST IDF RACK, REFER TO DIVISION 27 SPECIFICATIONS AND DETAILS ON SHEETS E300 AND E301 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E17 PROVIDE TWO (2) 4" CONDUIT SLEEVES IN THIS ROOM FOR PATHWAYS UP TO AND DOWN FROM OTHER LEVELS FOR CABLE ROUTES. ON EACH FLOOR, CONDUITS TO ROUTE UP TO LAY-IN CEILING TO STUB UP ABOVE ACCESSIBLE CEILING. IF NO LAY-IN CEILING, CONDUITS TO ROUTE UP TO HEIGHT OF THROUGH WALL SLEEVES INTO ADJACENT CORRIDOR SPACE(S) FOR CABLE ROUTING.

E19 PROVIDE NEW 6" VERTICAL CABLE MANAGEMENT. SEE DIVISION 27 SPECIFICATIONS.

E22 RECONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING LIGHTS IN THIS AREA.

E24 PROVIDE THREE (3) #12 AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED. CUT, PATCH, AND REPAIR WALLS AS REQUIRED FOR CONCEALED CONDUIT ENTRY. SEE SPECIFICATIONS FOR SURFACE RACEWAY REQUIREMENTS.

E27 PROVIDE TWO (2) #12 AND ONE (1) #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER IN EXISTING PANEL INDICATED. CUT, PATCH, AND REPAIR WALLS AS REQUIRED FOR CONCEALED CONDUIT ENTRY.

E28 PROVIDE 20A/1P MOTOR RATED SNAP SWITCH TO SERVE EQUIPMENT INDICATED. MAINTAIN ALL CODE REQUIRED CLEARANCES.

E29 PROVIDE NEW TELECOMMUNICATIONS GROUND BAR "TGB", MOUNT AT 18". SEE DETAILS ON SHEET E300 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E30 NEW CARD READER DEVICE. PROVIDE BACKBOX, CONDUIT PATHWAYS, AND ALL OTHER SYSTEM COMPONENTS, EQUIPMENT, AND CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CARD READER TO BE CONNECTED TO NEW DOOR ACCESS CONTROLLER IN IDF 350A, PROVIDE 18/4 CABLE FROM ALL CARD READER LOCATIONS BACK TO THIS CONTROLLER. REFER TO DIVISION 08 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E32 PROVIDE NEW LADDER STYLE TYPE CABLE TRAY. REFER TO DIVISION 27 SPECIFICATIONS AND DETAL #3 ON SHEET E301 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E33 PROVIDE NEW 25 PAIR 110 BLOCK. TERMINATE BACKBONE CONNECTION TO NEW 24-PORT CAT3 PATCH PANEL IN EQUIPMENT RACK.

E35 PROVIDE ONE (1) 2-1/2" CONDUIT SLEEVE FOR PATHWAY BETWEEN 4TH & 5TH FLOOR. TERMINATE AT JUNCTION BOX FOR CABLING PROTECTION.

E37 PROVIDE CONDUIT SUPPORTS AS REQUIRED, SEE SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY PROPOSED ROUTE AND NOTIFY ENGINEER OF ANY ISSUES OR UNFORSEEN HINDRANCES PRIOR TO CONSTRUCTION.

E38 PROVIDE NEW FIRE ALARM DEVICE. MATCH EXISTING BUILDING FIRE ALARM SYSTEM SPECIFICATIONS. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CIRCUIT SERVING SIMILAR DEVICES IN THIS AREA. REFER TO DETAIL #2 ON SHEET E300 AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

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MAY 13, 2024

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FOURTH FLOOR ELECTRICAL PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
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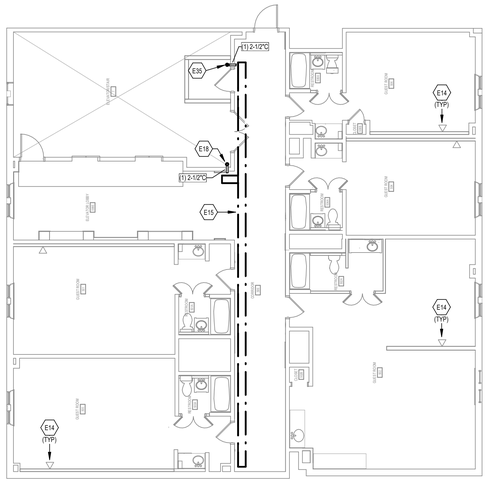
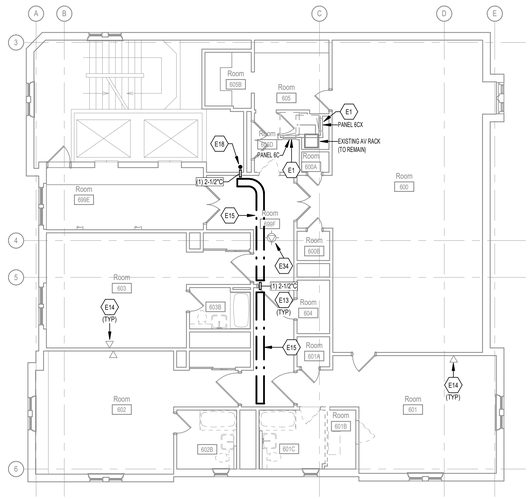
1	ADDENDUM 01	05/28/24

E204



1 FIFTH FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



2 SIXTH FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

E1 EXISTING ELECTRICAL PANEL(S) TO REMAIN.

E13 PROVIDE NUMBER OF CONDUIT SLEEVES AS INDICATED IN LINE WITH CABLING PATH ABOVE ACCESSIBLE CEILING. REFER TO CONDUIT SLEEVE DETAILS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 E14 CONTRACTOR TO PROVIDE ONE (1) NEW CAT 6A CABLE FROM EXISTING/NEW IDF TO TERMINATE AT EXISTING TELECOM BACK BOX IN GUEST ROOM(S). REMOVE EXISTING FACEPLATE AND PROVIDE BRADY LABEL AT CABLE FOR OWNER'S FINAL DEVICE TERMINATIONS. SEE FLOOR PLANS FOR AREAS SERVED BY EXISTING/NEW IDF INDICATED ON THESE PLANS. UTILIZE EXISTING CONDUIT PATHWAYS AND PULL STRINGS ABOVE ACCESIBLE CEILINGS AND IN WALLS FOR CABLE ROUTING. REFER TO DIV 27 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E15 PROPOSED J-HOOK CABLE TRAY PATH. REFER TO DETAIL #6 ON SHEET E300 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

E18 PROVIDE ONE (1) 2-1/2" CONDUIT SLEEVE FOR PATHWAY BETWEEN 5TH & 6TH FLOOR.

E34 EXISTING CEILING MOUNT WAP TO REMAIN.

E35 PROVIDE ONE (1) 2-1/2" CONDUIT SLEEVE FOR PATHWAY BETWEEN 4TH & 5TH FLOOR. TERMINATE AT JUNCTION BOX FOR CABLING PROTECTION.

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MAY 13, 2024

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FIFTH AND SIXTH FLOOR ELECTRICAL PLAN

CLIENT/CMTA JOB #:	20222853
DATE:	MAY 13, 2024
DRAWN:	MMM
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REVISIONS

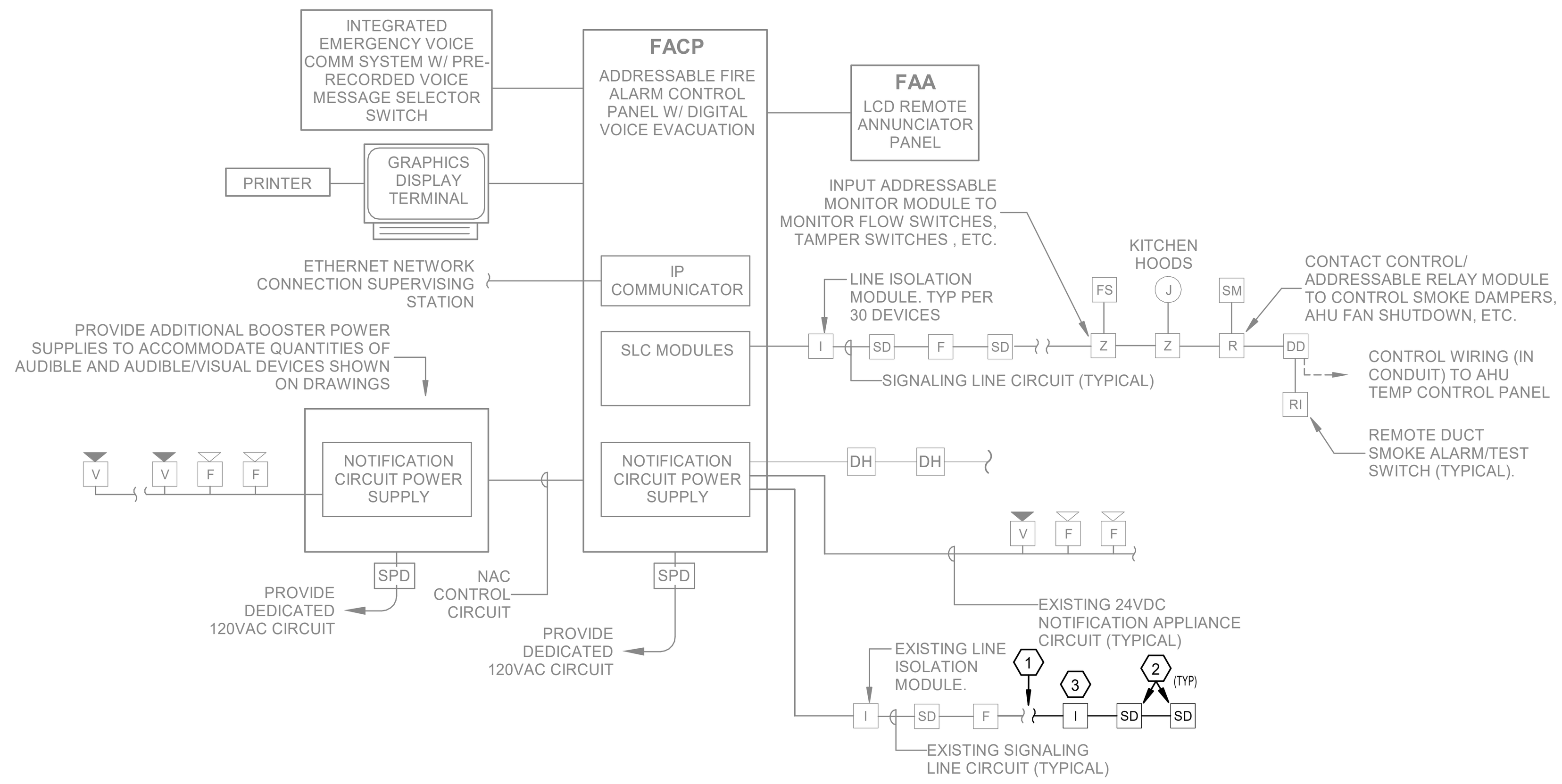
1	ADDENDUM 01	05/28/24

E205

GENERAL FIRE ALARM NOTES:

RISER DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. HALFTONE INDICATES TYPICAL EXISTING SYSTEM INFRASTRUCTURE, EQUIPMENT, AND DEVICES. SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL NEW FIRE ALARM DEVICES. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES TO MEET THE INTENT OF THE SPECIFICATIONS. ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH THE EXISTING PYROTRONICS CERBERUS FIRE ALRM SYSTEM IN THE BUILDING.

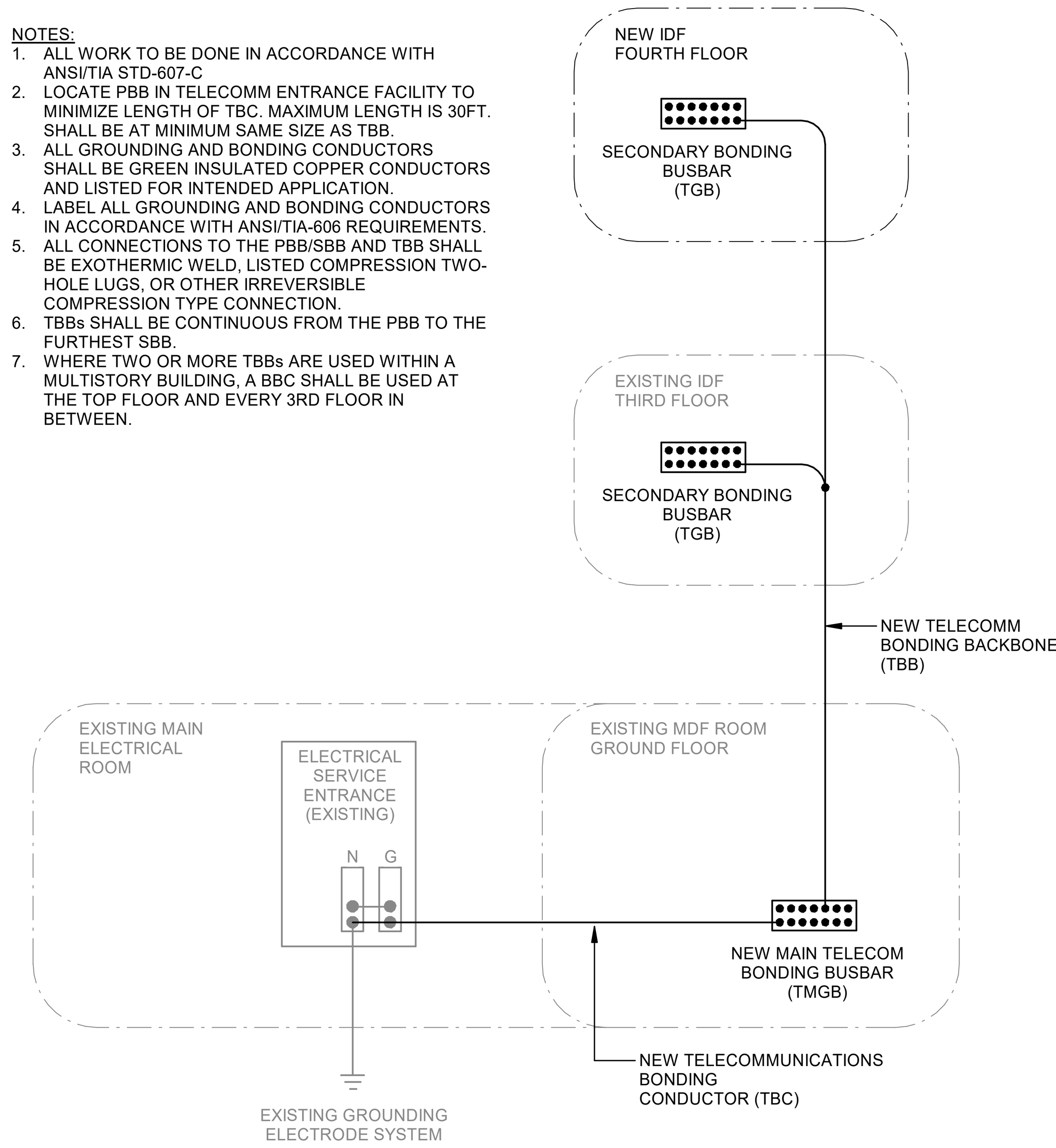
1. TO ALL OTHER DEVICES ON NEW/EXISTING LOOP/CIRCUIT AS REQUIRED. REFER TO FLOOR PLAN FOR PROPOSED DEVICE LOCATIONS.
2. NEW FIRE ALARM DEVICES, SEE FLOOR PLANS FOR PROPOSED LOCATIONS.
3. PROVIDE NEW "ISOLATOR MODULE" AS REQUIRED FOR NEW DEVICES. MOUNT IN A SURFACE NEMA-1 ENCLOSURE ABOVE THE SUSPENDED CEILING. PROVIDE AS REQUIRED BY SYSTEM MANUFACTURER TO ISOLATE LOOPS ON EACH FLOOR AND WITHIN EACH SMOKE COMPARTMENT.



2 TYPICAL FIRE ALARM SYSTEM DIAGRAM

NO SCALE

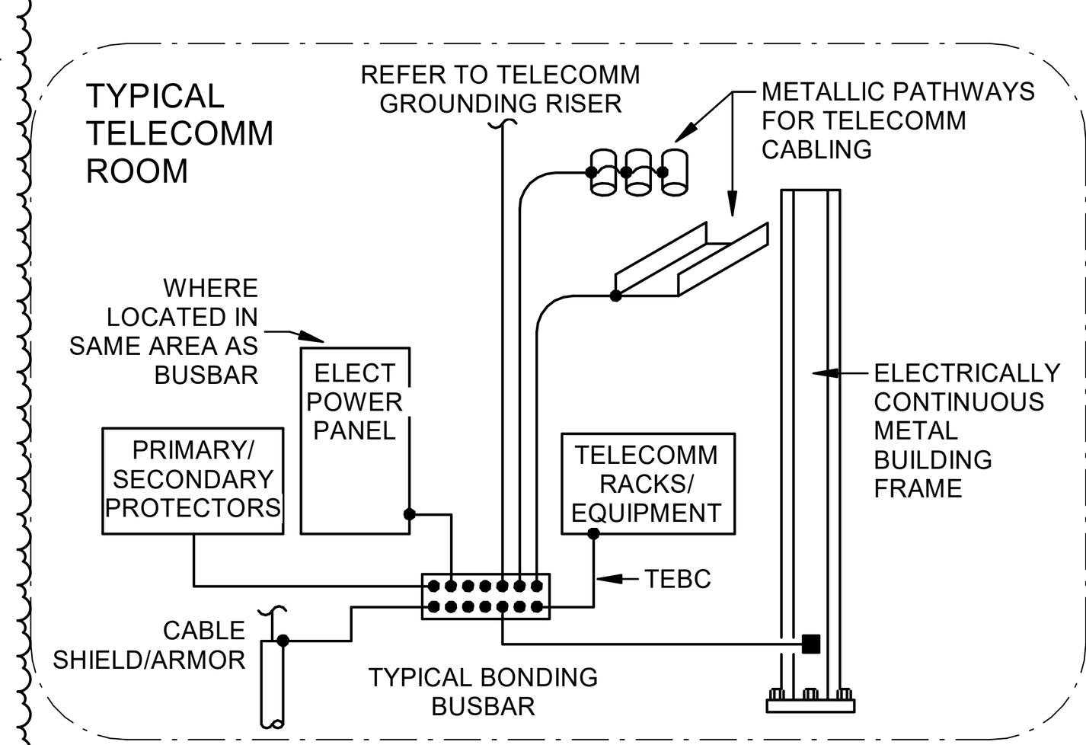
NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C
2. LOCATE PBB IN TELECOMM ENTRANCE FACILITY TO MINIMIZE LENGTH OF TBC. MAXIMUM LENGTH IS 30FT. SHALL BE AT MINIMUM SAME SIZE AS TBB.
3. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
4. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA-606 REQUIREMENTS.
5. ALL CONNECTIONS TO THE PBB/SBB AND TBB SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
6. TBBs SHALL BE CONTINUOUS FROM THE PBB TO THE FURTHEST SBB.
7. WHERE TWO OR MORE TBBs ARE USED WITHIN A MULTISTORY BUILDING, A BBC SHALL BE USED AT THE TOP FLOOR AND EVERY 3RD FLOOR IN BETWEEN.



3 TELECOMM GROUNDING RISER - MULTI FLOOR

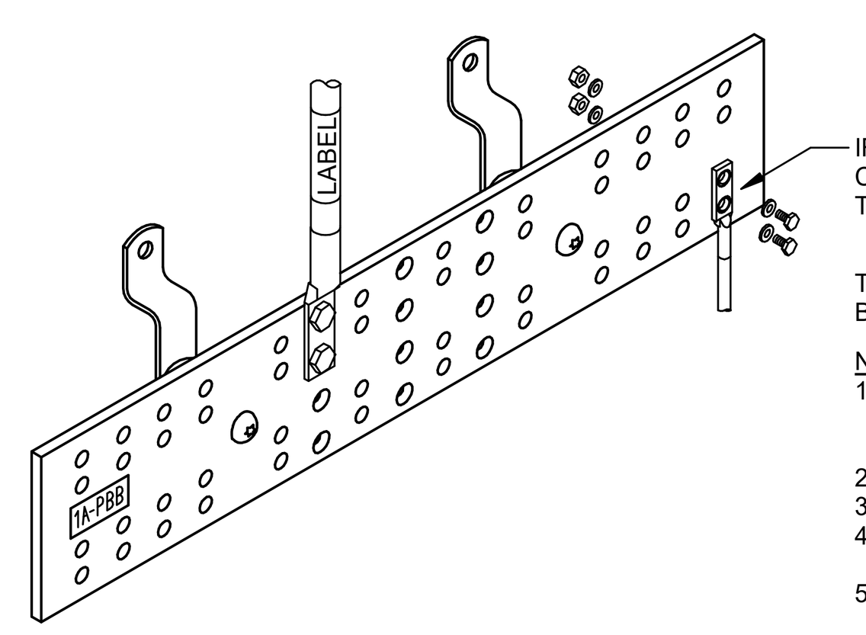
NO SCALE

NOTES:
1. REFER TO DIVISION 27 SPECIFICATIONS FOR EXACT REQUIREMENTS FOR TELECOM BUSBAR CONNECTIONS. SPECIFICATION TO TAKE PRECEDENCE.
2. WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C
3. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
4. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA/EIA 606 REQUIREMENTS.
5. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
6. ALL METALLIC RACEWAYS FOR TELECOMM CABLING SHALL BE BONDED TO BUSBAR IF LOCATED IN SAME ROOM OR AREA.
7. WHERE THE OSP OR BACKBONE CABLING INCORPORATES A SHIELD OR METALLIC ARMOR, IT SHALL BE BONDED TO THE BUSBAR WHERE THE CABLES ARE TERMINATED OR WHERE THE PAIRS ARE BROKEN OUT FROM THE CABLE SHEATH.
8. BONDING CONDUCTOR TO BUILDING STEEL SHALL BE SIZED TO MATCH BACKBONE CONDUCTOR. OTHER BONDING CONDUCTORS SHALL BE A MINIMUM #6 AWG AND INSTALLED WITH A MINIMUM 8-INCH BEND RADIUS.
9. BONDING CONDUCTORS FOR ENTRANCE PROTECTORS AND CABLE SHIELDING CAPABLE OF CONDUCTING LIGHTNING AND FAULT CURRENTS SHALL MAINTAIN A MINIMUM OF 1FT SEPARATION FROM ALL TELECOMM CABLING.



4 TYPICAL TELECOMM BUSBAR CONNECTIONS

NO SCALE



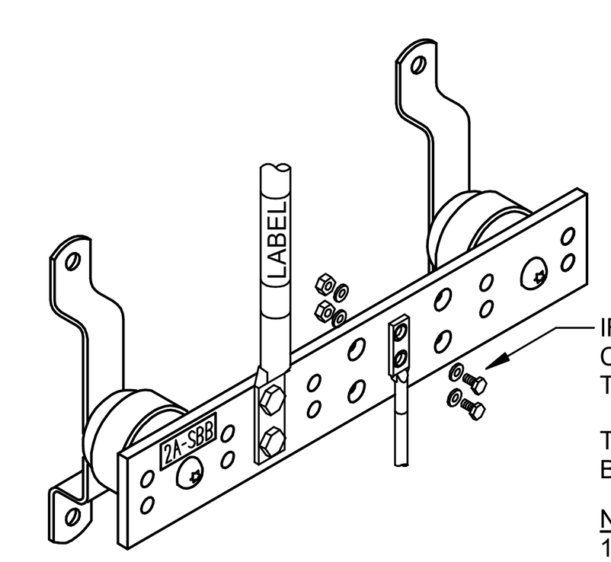
IRREVERSIBLE COMPRESSION-TYPE 2-HOLE TERMINAL (TYPICAL)

TELECOMMUNICATIONS MAIN BONDING BUSBAR (TMGB)

NOTES:
1. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
2. MINIMUM 2" INSULATED STANDOFFS
3. BICSI/TIA-607 STYLE HOLE PATTERN
4. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
5. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606.

5 MAIN TELECOMM BUSBAR - TMGB

NO SCALE



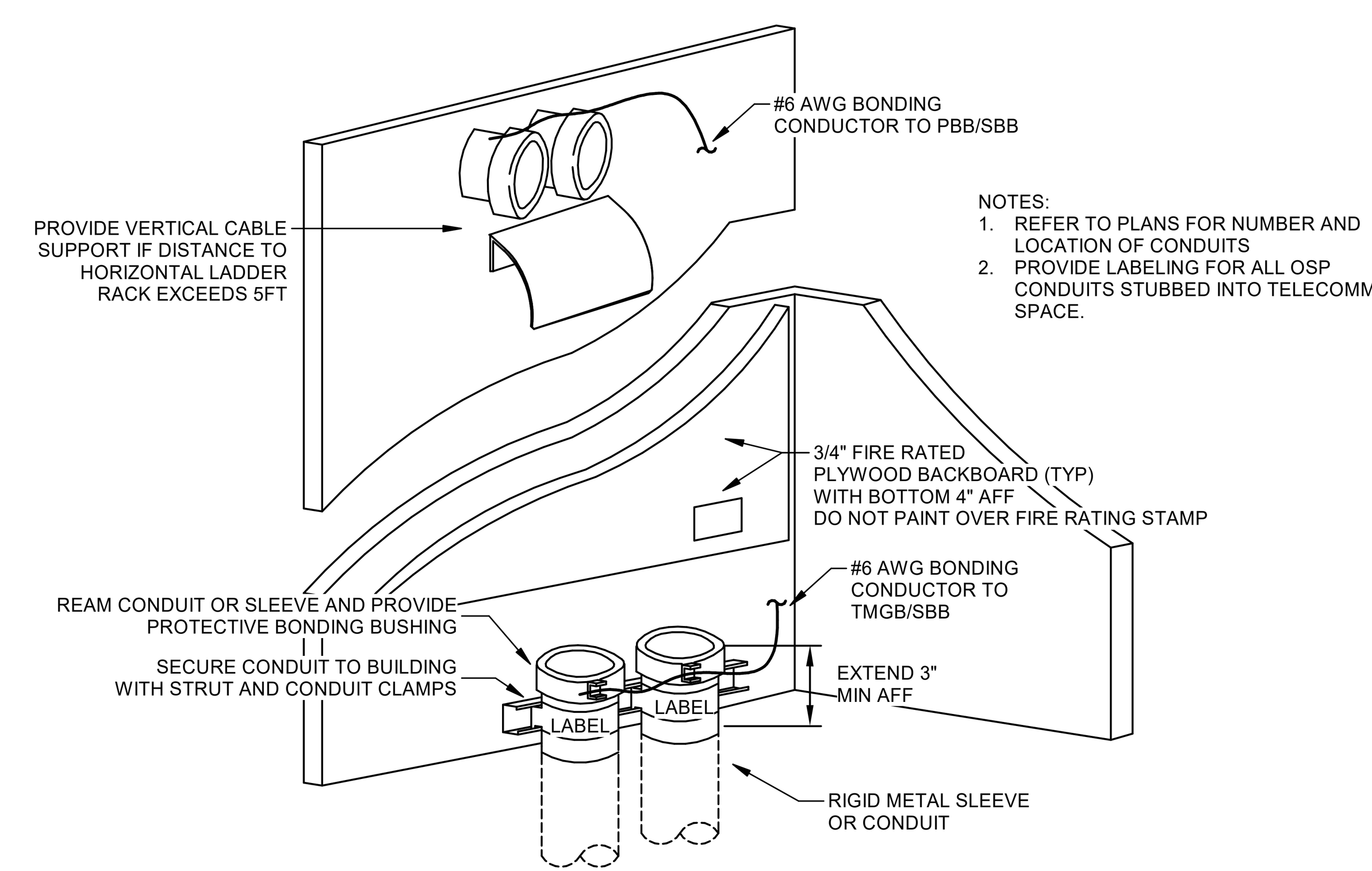
IRREVERSIBLE COMPRESSION-TYPE 2-HOLE TERMINAL (TYPICAL)

TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB)

NOTES:
1. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X2"X12" MIN AND LISTED BY AN NTRL
2. MINIMUM 2" INSULATED STANDOFFS
3. BICSI/TIA-607 STYLE HOLE PATTERN
4. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
5. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606.

6 TELECOMM BUBAR - TGB

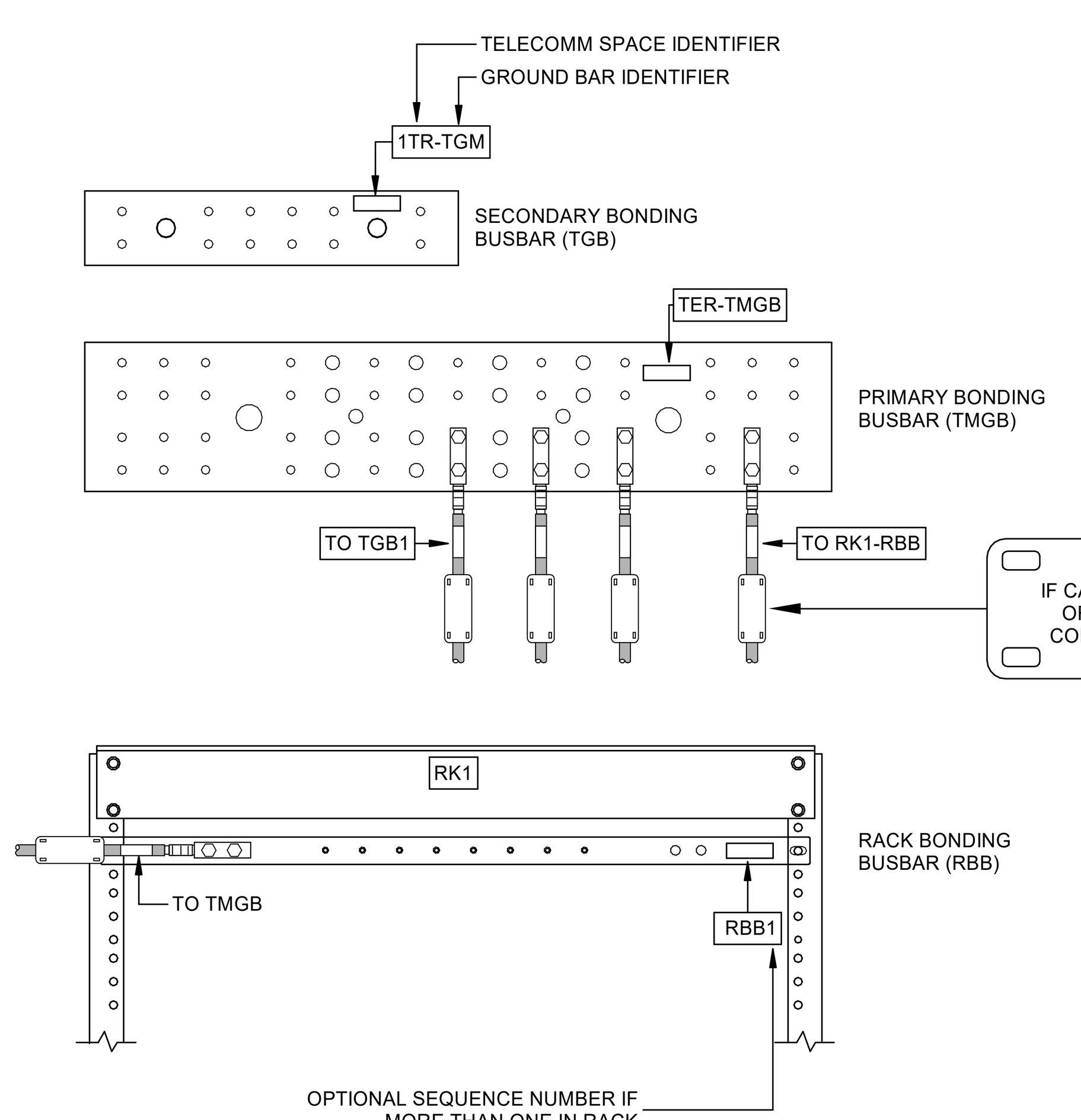
NO SCALE



NOTES:
1. REFER TO PLANS FOR NUMBER AND LOCATION OF CONDUITS
2. PROVIDE LABELING FOR ALL OSP CONDUITS STUBBED INTO TELECOMM SPACE.

7 TELECOMM CONDUIT ENTRANCE

NO SCALE



NOTES:
1. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS. ALL LABELING TO BE APPROVED BY UITS.
2. EACH GROUND BAR SHOULD BE LABELED WITH ITS ID AT A LOCATION IN CLEAR VIEW OF SOMEONE MAKING A TERMINATION SO AS TO KEEP LABEL FROM BEING COVERED UP BY CONNECTIONS. LABEL SHALL BE BLACK PRINT ON GREEN BACKGROUND
3. ALL BONDING CONDUCTORS SHALL BE IDENTIFIED BY DURABLY AFFIXED LABEL ON BOTH ENDS WITH BLACK LETTERS ON GREEN BACKGROUND AND SUITABLE FOR ENVIRONMENTAL CONDITIONS. LABEL SHALL BE VIEWABLE FROM FINAL CABLE ORIENTATION
4. WARNING LABELS SHALL BE YELLOW MARKER PLATE TYPE WITH BLACK PRINT AND PLACED NEAR EACH ID LABEL.
5. ALL LABELS SHALL USE CAPITAL LETTERS.
6. GROUND BAR TAG SHALL BE NO LESS THAN 2" IN HEIGHT WITH LETTERS NO LESS THAN 1.5" TALL.

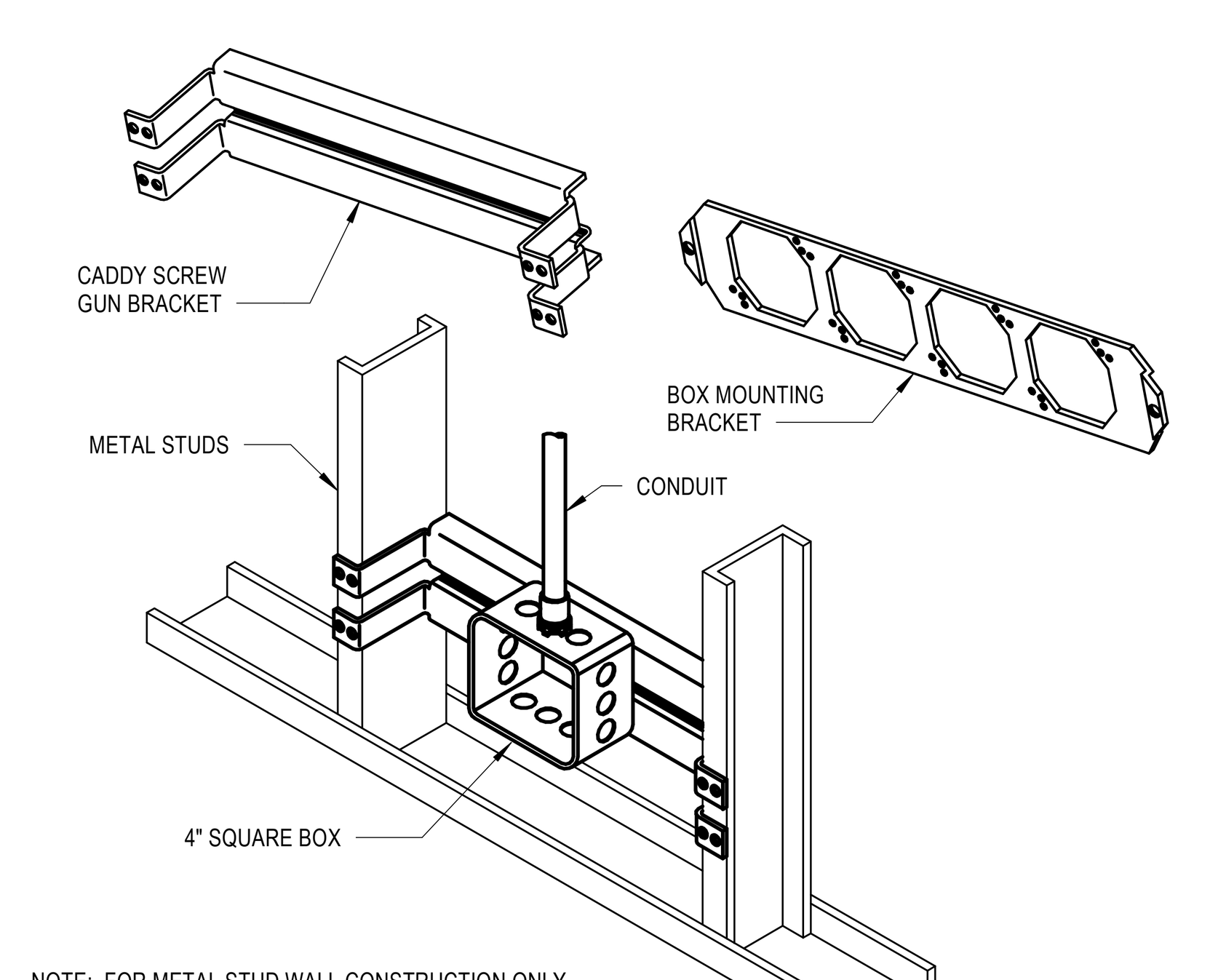
WARNING
IF CABLE OR CONNECTOR IS LOOSE OR MUST BE REMOVED PLEASE CONTACT TELECOMMUNICATIONS MANAGER

BUSBAR IDENTIFIERS:
TMGB = PRIMARY BONDING BUSBAR
TGB = SECONDARY BONDING BUSBAR
RBB = RACK BONDING BUSBAR
MBN = MESH BONDING NETWORK

OBJECT IDENTIFIERS:
CB = CABINET
RK = RACK
CT = CABLE TRAY
CN = CONDUIT
FR = FRAME
TBB = TELECOMMUNICATIONS BONDING BACKBONE
MBN = MESH BONDING NETWORK
RGB = RACK GROUNDING BUSBAR
PNL = AC PANEL
BLDG STEEL = BUILDING STEEL
EQxx = ACTIVE EQUIPMENT (I.E. LAN SWITCH)

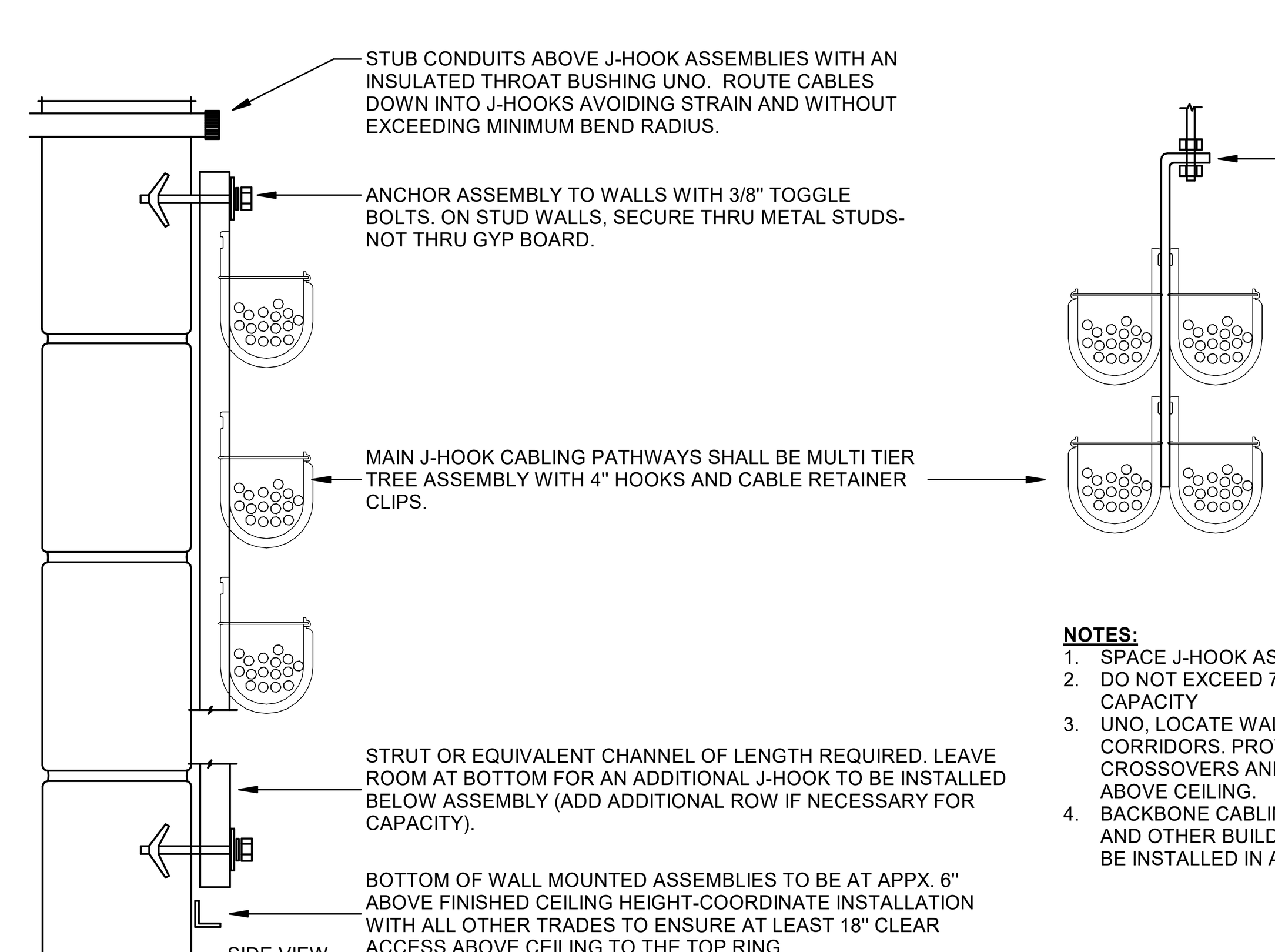
8 LABELING-BUSBAR/BONDING CONDUCTOR

NO SCALE



9 WALL BOX INSTALLATION DETAIL

NO SCALE



NOTES:
1. SPACE J-HOOK ASSEMBLIES APPROX. 48" O.C.
2. DO NOT EXCEED 75% OF MANUFACTURER'S LISTED CABLE CAPACITY
3. UNO, LOCATE WALL ASSEMBLIES THROUGHOUT CORRIDORS. PROVIDE SUSPENDED ASSEMBLIES AT CROSSOVERS AND OPEN AREAS. SUSPEND APPROX. 18" ABOVE CEILING.
4. BACKBONE CABLING, DATA/VOICE HORIZONTAL CABLING, AND OTHER BUILDING CONTROLS CABLING SHALL EACH BE INSTALLED IN A SEPARATE J-HOOK COMPARMENT.

10 J-HOOK INSTALLATION DETAIL

NO SCALE

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MAY 13, 2024

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1	ADDENDUM 01	05/28/24

E300

DEVICE MOUNTING DETAIL - GENERAL NOTES:

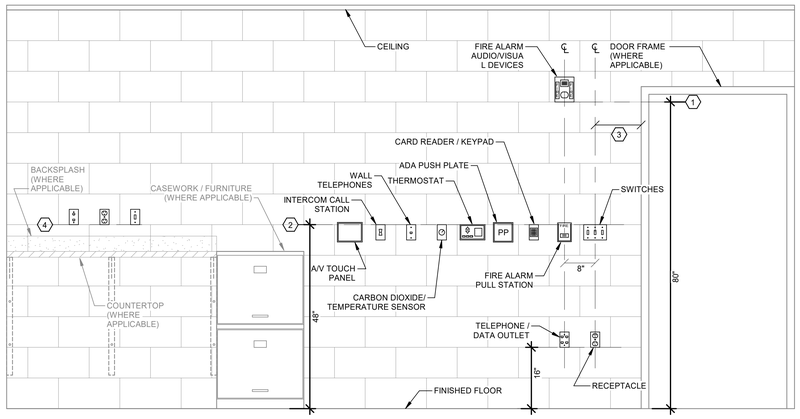
A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

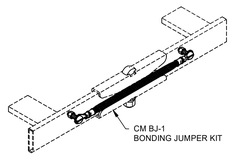
DEVICE MOUNTING DETAIL - KEY NOTES:

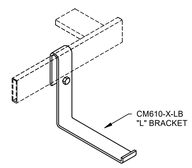
1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.



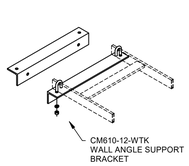
1 TYPICAL WALL DEVICE MOUNTING DETAIL

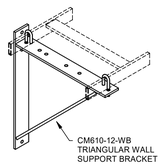
NO SCALE

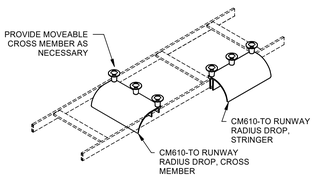


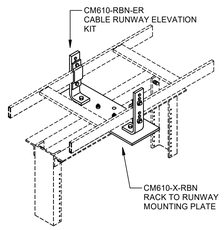


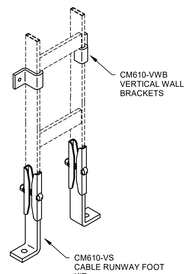
NOTES:
1. REFER TO DIVISION 27 SPECIFICATIONS FOR EXACT REQUIREMENTS FOR TELECOM BUSBAR CONNECTIONS. SPECIFICATION TO TAKE PRECEDENCE.
2. PROVIDE SNAKE TRAY 12" UNIVERSAL CABLE RUNWAY (CM610-12-10) AND INDICATED ACCESSORIES.
3. SUPPORT ACCESSORIES AND HARDWARE ARE TO BE SUPPLIED AS COMPLETE KITS BY RUNWAY MANUFACTURER.
4. ALL DETAILS ON THIS DRAWING ARE DETAILS OF TYPICAL INSTALLATION AND MAY VARY. FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES.
5. PROVIDE RADIUS DROPS WHERE CABLING DROPS OR ENTERS THE RUNWAY
6. PROVIDE BONDING STRAP BETWEEN ALL SECTIONS
7. ROUTE POWER AND BONDING CONDUCTORS ON AUXILIARY "L" BRACKET ATTACHED TO SIDE OF RUNWAY.
8. ALL CABLES IN RUNWAY SHALL BE IN 24 CABLE BUNDLES WRAPPED WITH VELCRO HOOK AND LOOP CABLE TIES. ALL CABLES IN BUNDLE SHALL TERMINATE TO SAME PATCH PANEL.

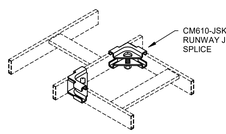


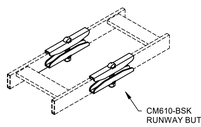






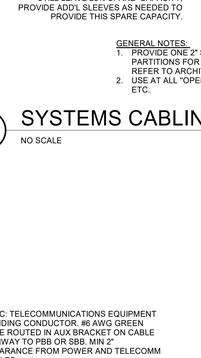






3 CABLE RUNWAY DETAILS

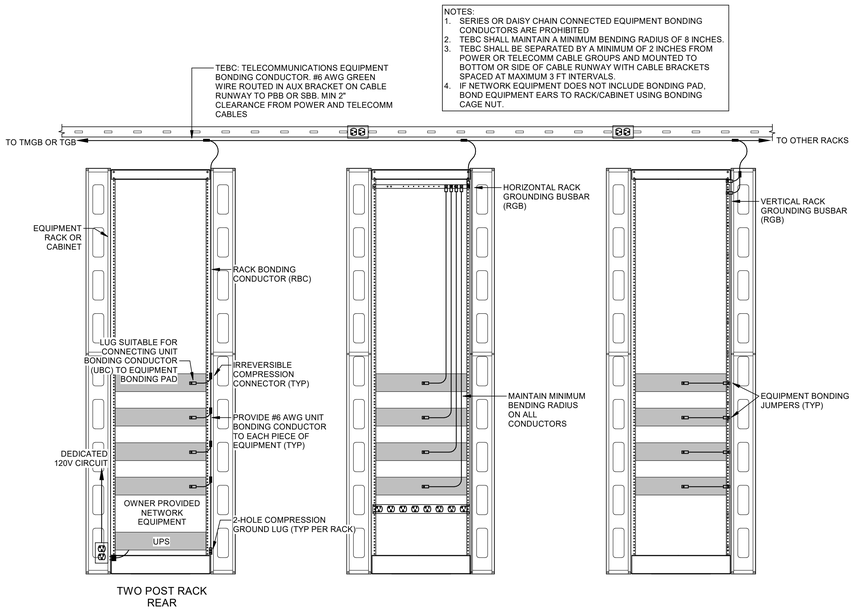
NO SCALE



GENERAL NOTES:
1. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
2. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

2 SYSTEMS CABLING SLEEVE INSTALLATION

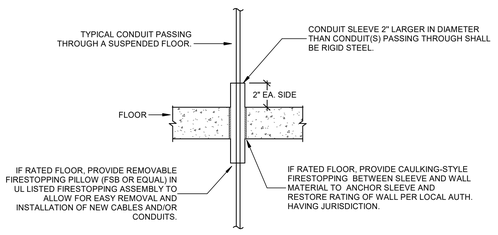
NO SCALE



NOTES:
1. SERIES OR DAISY CHAIN CONNECTED EQUIPMENT BONDING CONDUCTORS ARE PROHIBITED
2. TEBC SHALL MAINTAIN A MINIMUM BENDING RADIUS OF 8 INCHES.
3. TEBC SHALL BE SEPARATED BY A MINIMUM OF 2 INCHES FROM POWER OR TELECOMM CABLE GROUPS AND MOUNTED TO BOTTOM OR SIDE OF CABLE RUNWAY WITH CABLE BRACKETS SPACED AT MAXIMUM 3 FT INTERVALS.
4. IF NETWORK EQUIPMENT DOES NOT INCLUDE BONDING PAD, BOND EQUIPMENT EARS TO RACK/CABINET USING BONDING CAGE NUT.

4 RACK GROUNDING AND POWER

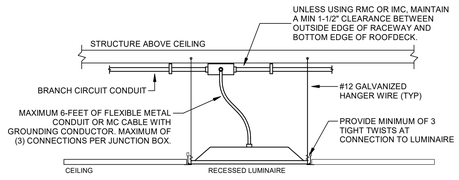
NO SCALE



GENERAL FLOOR PENETRATION NOTES:
A. WHERE CONDUITS PENETRATE A FLOOR SLAB AND ARE EXPOSED, PROVIDE SQUARE 4" HIGH CONCRETEPAD AROUND CONDUIT SLEEVE AND EXTEND SLEEVE 4" ABOVE PAD.
B. WHERE CONDUITS OR SLEEVES PENETRATE FLOORS IN GROUPS, THE CONCRETE PAD SHOULD BE CONTINUOUS AROUND ALL CONDUITS OR SLEEVES.

5 CONDUIT PENETRATION SLEEVE INSTALLATION

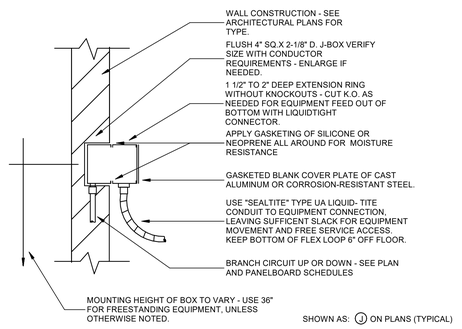
NO SCALE



NOTES:
1. PROVIDE EACH LUMINAIRE WITH (2) STEEL WIRE SUPPORTS AT OPPOSITE CORNERS AND SECURE TO STRUCTURE. SECURE LUMINAIRE TO MAIN RUNNERS OF CEILING GRID AT ALL (4) CORNERS WITH MACHINE SCREWS OR APPROVED MECHANICAL FASTENERS.
2. LUMINAIRE SUPPORTS MUST BE INDEPENDENT OF ANY CEILING OR OTHER BUILDING SYSTEM SUPPORTS.

6 LUMINAIRE SUPPORT DETAIL

NO SCALE



SHOWN AS: (J) ON PLANS (TYPICAL)

7 TYPICAL HARD-WIRED CONNECTION

NO SCALE

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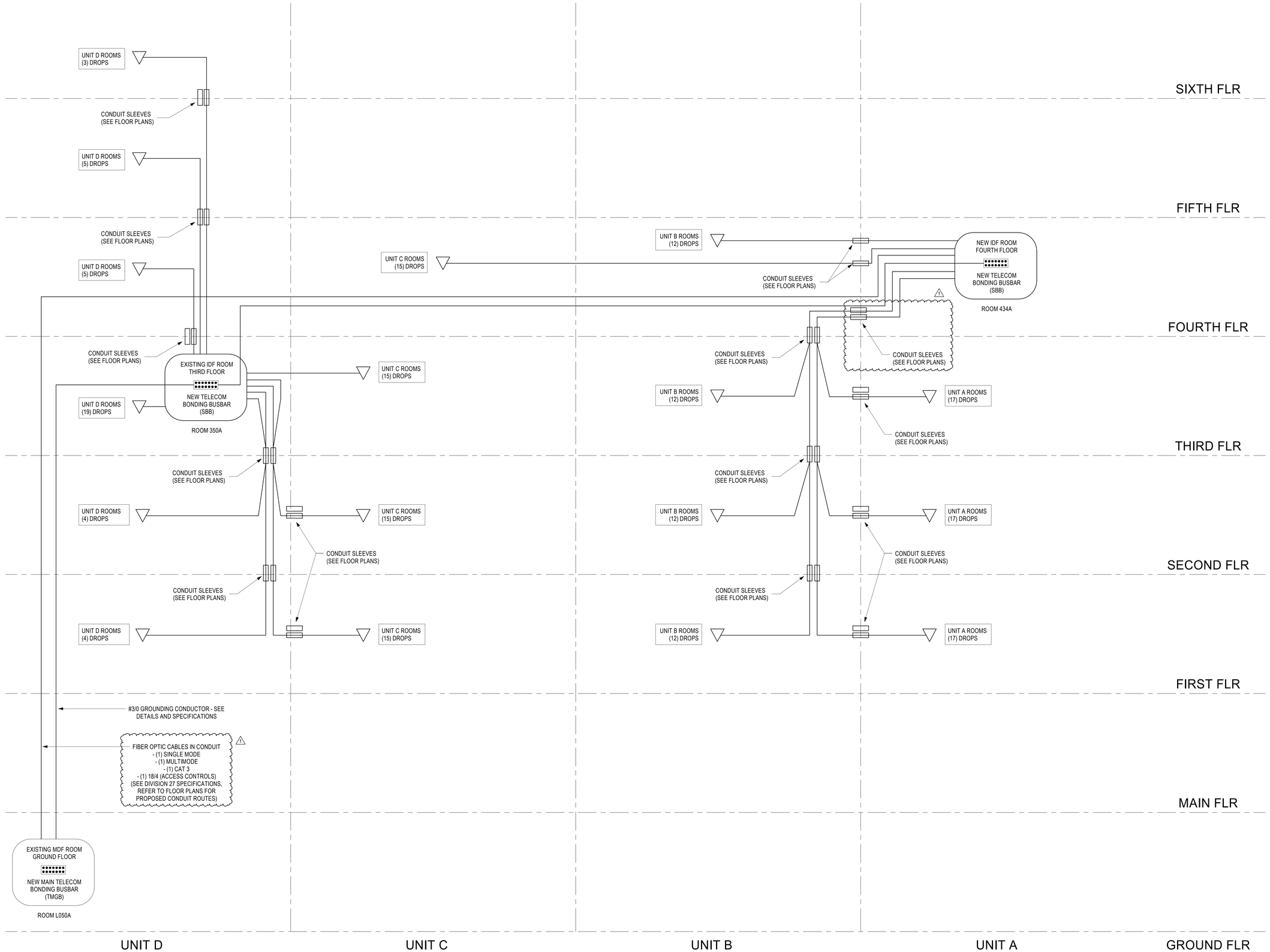
E301



1 DATA DISTRIBUTION RISER
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