SOPHIE DAVIS BIOMEDICAL SCHOOL INTERIOR UPGRADES

1589 AMSTERDAM AVENUE NEW YORK NY 10031

CCNY - HARRIS HALL IT UPGRADE

ISSUED FOR BID



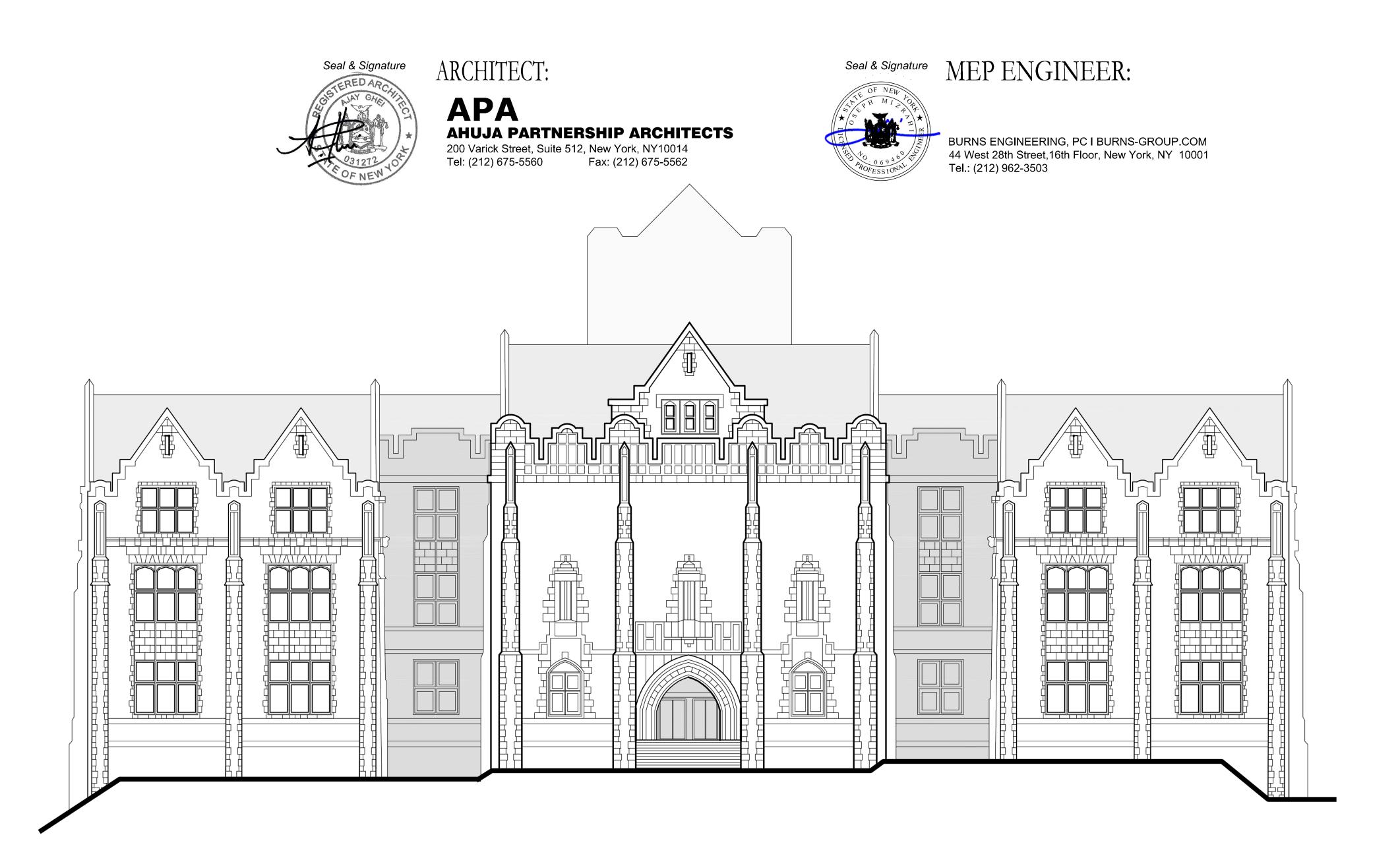
CITY UNIVERSITY OF NEW YORK

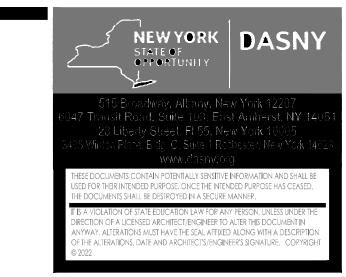
555 West 57th Street, 16th Floor, New York, NY 10019



CITY COLLEGE OF NEW YORK

160 Convent Avenue, New York, NY 10031





DOB PROJECT #: M00945826-I1 MECHANICAL: M00945857-11
PLUMBING: N.A.
SPRINKLER: N.A.
STRUCTURAL: N.A.

TITLESHEET

T-001.00

GENERAL NOTES 5. INDICATED DIMENSIONS ARE TO: a) FACE OF CONCRETE MASONRY FACE OF FINISHED SURFACES CENTER LINES d) FACE OF EXISTING CONSTRUCTION CONSTRUCTION MANAGER AND/OR ARCHITECT. THEIR INTENDED USE. EXPENSIVE METHOD OF WORK. FUNCTIONING OF ADJOINING SPACES. THE FACILITY/OWNER. REMOVAL NOTES ASSEMBLY SPECIFIED IN APPLICATION. NOTES IN GENERAL REQUIREMENTS.

1. ALL DETAILS SHOWN ARE SIMILAR FOR SIMILAR LOCATIONS IN ALL OR PART OF THE DETAIL

- 2. ALL WORK INDICATED IS NEW UNLESS OTHERWISE NOTED.
- 3. WORK NOT INDICATED ON DRAWINGS SHALL NOT BE PERFORMED UNLESS BY WRITTEN APPROVAL FROM THE
- 4. EACH CONTRACTOR AND/OR SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB
- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO, DASNY PROJECT MANAGER,
- SHOP DRAWINGS WHERE APPLICABLE MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. ALL WORK SHALL CONFORM TO ALL CODES IN JURISDICTION. IN CASE OF ANY CONFLICT OF OR BETWEEN CODES, THE MORE STRINGENT CODE SHALL APPLY.
- USE ONLY NEW MATERIALS AND EQUIPMENT WITHOUT DEFECTS FOR
- 10. THE CONTRACTOR SHALL COORDINATE WORK OF ALL OTHER TRADES AND SHALL PREPARE MASTER SCHEDULE. 11. SET ALL WORK STRAIGHT, PLUMB AND LEVEL OR WITH INDICATED SLOPE.
- 12. IF AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE IN HIS BID, THE MORE
- 13. LARGE SCALE DETAILS HAVE PRECEDENCE, OVER SMALL SCALE DRAWINGS.
- **14.** IT IS RECOGNIZED THAT THE CONTRACT DOCUMENTS MAY NOT SHOW ALL CONDITIONS AND/OR MODIFICATIONS, WHICH MAY BE REQUIRED AND NOT ACCURATELY REFLECT ADJACENT CONDITIONS. IT IS, HOWEVER, REQUIRED THAT THE CONDITIONS NOT DETAILED OR SHOWN ACCURATELY SHALL BE DEVELOPED TO MEET THE CRITERIA, AS INDICATED AND STIPULATED ON THESE DRAWINGS AND SPECIFICATIONS.
- 15. ALL EXISTING DIMENSIONS ARE BASED ON AS-BUILT DRAWINGS AND HAVE BEEN SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL SUCH DIMENSIONS PRIOR TO EXECUTION OF WORK.
- 16. ALL BUILDING ELEMENTS MUST BE PROTECTED AGAINST DAMAGE THROUGHOUT THE DURATION OF THE WORK. IN CASE OF ANY DAMAGE THE SAME SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO DASNY AND TO THE SATISFACTION OF THE OWNER/FACILITY.
- 17. BUILDING SIGNS: THE CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, PROTECT AND SET ASIDE FOR REINSTALLATION AFTER COMPLETION OF WORK. ALL SIGNS SHALL BE CLEANED PRIOR TO REINSTALLATION. INSTALLATION SHOULD BE PER ORIGINAL EXISTING DETAILS.
- 18. ALL WORK REGARDING REMOVALS AND/OR INSTALLATION OF NEW WORK SHALL NOT IMPEDE NORMAL
- 19. CONTRACTOR SHALL REFER TO AS-BUILT DRAWINGS TO THE EXTENT AVAILABLE @ FACILITY OFFICE FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS.
- 20. CONTRACTOR SHALL COORDINATE WITH THE FACILITY/OWNER AND SUBMIT DETAILED PHASING PLANS AND DRAWINGS. WORK IN THE FIELD SHALL COMMENCE ONLY AFTER THE SAME HAS BEEN APPROVED IN WRITING BY
- 21. SUBJECT TO APPROVAL BY DASNY, CONTRACTOR MAY PERFORM OVERTIME/WEEKEND WORK IF REQUIRED TO MEET APPROVED SCHEDULES AT NO ADDITIONAL COST TO OWNER.
- 22. CONTRACTOR SHALL INCLUDE IN HIS/HER BID, ALL OVERTIME/WEEKEND WORK FOR AREAS OF WORK AS DELINEATED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- 23. CONTRACTOR SHALL COORDINATE ALL OVERTIME WORK AND SHUTDOWN OF SERVICES WITH FACILITY.
- 24. UPON RECEIPT OF THE NOTICE TO PROCEED, CAREFULLY INSPECT ALL EXISTING WORK WHICH IS REQUIRED TO BE REPAIRED, ALTERED OR REMOVED. ANY SUCH WORK WHICH IS FOUND TO BE WEAKENED, STRUCTURALLY UNSAFE OR OTHERWISE HAZARDOUS, SHALL BE IMMEDIATELY PUT IN A SAFE CONDITION AND SO MAINTAINED UNTIL SUCH TIME AS THE PERMANENT WORK IN CONNECTION THEREWITH IS COMPLETED.
- DEMOLITION AND REMOVAL WORK SHALL BE AS SHOWN ON THE DRAWINGS AS REQUIRED TO MAKE WAY FOR NEW CONSTRUCTION. ALL SUCH WORK REQUIRED IN CONNECTION WITH THIS PROJECT SHALL BE DONE WITH DUE CARE INCLUDING PROVIDING TEMPORARY SUPPORTS WHERE REQUIRED AT EXISTING CEILING, GRIDS, LIGHTS, DIFFUSERS AND ALL OTHER CEILING MOUNTED DEVICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH MAY BE CAUSED TO ANY PART OF THE EXISTING STRUCTURE, SERVICES OR ADJACENT FINISH SURFACES. ALL EXISTING AREAS SHOWN "TO REMAIN" IF AFFECTED BY DEMOLITION OR NEW CONSTRUCTION SHALL BE PATCHED TO THEIR ORIGINAL CONDITION FOR MATERIALS, FIRE RATING. FINISH AND COLOR UNLESS OTHERWISE APPROVED BY ARCHITECT.
- DRAWINGS SHOW ONLY GENERAL SCOPE OF REMOVALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS, DEMOLITION OR TEMPORARY RELOCATION OF EXISTING CONDUITS, OUTLETS, DEVICES AND RELATED ITEMS NOT SHOWN BUT REQUIRED TO COMPLETE THE CONTRACT WORK AS SHOWN ON DRAWINGS. ALL ITEMS SHALL BE REINSTALLED IN WORKING ORDER WHEN WORK IS COMPLETE.
- CONTRACTOR SHALL RESTORE THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES THAT ARE DAMAGED DURING CONSTRUCTION. DAMAGED ASSEMBLIES SHALL BE RESTORED TO COMPLY WITH THE VALUE AND CONSTRUCTION
- FLOOR WORK SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS. DAMAGE TO EXISTING FLOORS WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE FACILITY. SEE FLOOR PROTECTION

OSHA TITLE 29 CFR 1926.62

THE CONTRACTOR IS ADVISED THAT THE WORK OF THE CONTRACT MAY IMPOSE CERTAIN OBLIGATIONS AND REQUIREMENTS MANDATED BY THE US DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS, TITLE 29 CFR 1926.62 LEAD EXPOSURE IN CONSTRUCTION, RELATIVE TO THE POTENTIAL EXPOSURE TO LEAD BY ITS EMPLOYEES. DASNY SPECIFICATION SECTION 02 83 10 IS PROVIDED IN THE CONTRACT DOCUMENTS TO PROVIDE ADDITIONAL GUIDANCE TO THE CONTRACTOR AND OWNER'S ENVIRONMENTAL CONSULTANT. THE CONTRACTOR ASSUMES ENTIRE RESPONSIBILITY AND LIABILITY FOR FULLY COMPLYING IN ALL RESPECTS WITH THESE REGULATIONS AND CONTRACT DOCUMENTS. ADDITIONALLY, IF THE CONTRACTOR GENERATES POTENTIAL HAZARDOUS LEAD WASTE THROUGH THE COURSE OF THIS PROJECT, THEN THE WASTE GENERATED SHALL BE PROPERLY HANDLED, STORED AND ANALYZED FOR APPROPRIATE WASTE DISPOSAL AS PER US EPA RCRA REGULATIONS (SEE DASNY SPECIFICATION 02 86 00 FOR HAZARDOUS WASTE DISPOSAL REQUIREMENTS, IF NECESSARY) ALL WASTE TESTING MUST BE PERFORMED BY THE OWNER'S ENVIRONMENTAL CONSULTANT. THE CONTRACTOR SHALL COORDINATE WITH DASNY AND THE ENVIRONMENTAL CONSULTANT ACCORDINGLY.

BUILDING CODE NOTES

- PERMITS AND COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE, THE PLUMBING CODE AND ELECTRICAL CODE OF THE CITY OF NEW YORK (CODE), THE NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE AND ALL OTHER REGULATIONS AND ORDINANCES HAVING JURISDICTION.
- COMMENCEMENT OF OPERATIONS: SPECIAL INSPECTION ITEMS REQUIRE 72 HOUR PRIOR WRITTEN NOTICE TO PERSONS RESPONSIBLE FOR INSPECTION
- RATED ASSEMBLIES: ALL MATERIAL OR ASSEMBLIES REQUIRED TO HAVE FIRE RESISTANCE RATING SHALL COMPLY WITH THE RESPECTIVE UL DESIGN.
- FIRESTOPPING-GENERAL: CONCEALED SPACES WITH PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING PIPE SPACES, COLUMN ENCLOSURES, ETC. SHALL BE FIRE STOPPED WITH NON-COMBUSTIBLE MATERIAL THAT CAN BE SHAPED, FITTED AND PERMANENTLY SECURED IN POSITION.
- 5. SHAFT ENCLOSURES: STAIR AND SHAFT ENCLOSURES SHALL HAVE A MINIMUM OF 2—HOUR FIRE RESISTIVE RATING, COMPLYING WITH THE CODE UNLESS OTHERWISE NOTED ELSEWHERE ON THESE DOCUMENTS.
- 6. FLAME SPREAD SMOKE DENSITY:
 - A. INTERIOR FINISH: LOUNGE AREAS CLASS A. FLAME SPREAD RATINGS FOR EXITS, SHAFTS AND CORRIDORS SHALL BE 0-25.
 - B. SMOKE DENSITY: NO MATERIAL SHALL BE USED FOR INTERIOR FINISH OF EXITS OR CORRIDORS THAT HAS A SMOKE DEVELOPED RATING GREATER THAN 25.

OCCUPANCY CLASSIFICATION:

EXISTING BUILDING - 'B'-BUSINESS / PUB - Old Code **CONSTRUCTION CLASSIFICATION:**

CONSTRUCTION GROUP - I - B

PARTIALLY SPRINKLERED BUILDING

APPLICABLE CODES:

'NON-COMBUSTIBLE'

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND ORDINANCES
- 2. CODES AND ORDINANCES APPLICABLE TO THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- NEW YORK CITY BUILDING CODE AND ITS REFERENCED STANDARDS (NYCBC, 2022 EDITION)
- 2022 NYC ADMINISTRATIVE CODE
- NEW YORK CITY ENERGY CONSERVATION CODE 2020/ANSI/ASHRAE/IESNA
- NEW YORK CITY FIRE PREVENTION CODES AND DIRECTIVES (NYCFC, 2022 EDITION) • NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 101) LIFE SAFETY CODE (2015 EDITION)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 70) NEC NEW YORK CITY (LATEST EDITION)
- NEW YORK CITY MECHANICAL CODE 2022 NEW YORK CITY PLUMBING CODE - 2022
- OSHA GUIDELINES AND STANDARDS (LATEST EDITION)
- CURRENT DIRECTIVES, MEMORANDA AND ERRATA OF THE NYC DEPARTMENT OF BUILDINGS

NYC SPECIAL INSPECTIONS

	BC 1704.27 (2014), BC 1705.17 (2022) FIRE-RESISTANT PEN	NETRATIONS AND JOINTS DASNY	
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NYC PROGRESS INSPECTIONS:

CODE REFERENCE	ITEM	RESPONSIBILITY
BC 110.3.4	FIRE-RESISTANCE RATED MATERIALS	DASNY
28-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975,1 RCNY 101-10	FINAL	APA

DRAWINGS LIST

<u>GENERAL</u>

T-001.00 TITLE SHEET G-001.00

GENERAL, REMOVAL, DOB & OSHA NOTES, DRAWING LIST & MAPS

<u>ENERGY</u>

CODE REFERENCE

EN-001.00 ENERGY CODE — BUILDING ENVELOPE

<u>ARCHITECTURAL</u>

A-001.00

ARCH. SCOPE OF WORK, NOTES, LEGEND, FIRESTOPPING SCHEDULE & DETAILS

A-101.00 SECOND FLOOR PLAN NORTH - REMOVALS AND CONSTRUCTION A-102.00 SECOND FLOOR PLAN SOUTH - REMOVALS AND CONSTRUCTION THIRD FLOOR PLAN NORTH - REMOVALS AND CONSTRUCTION A-103.00

A-104.00 THIRD FLOOR PLAN SOUTH - REMOVALS AND CONSTRUCTION A-111.00 SECOND FLOOR RCP NORTH - REMOVALS AND CONSTRUCTION

SECOND FLOOR RCP SOUTH - REMOVALS AND CONSTRUCTION A-112.00 A-113.00 THIRD FLOOR RCP NORTH - REMOVALS AND CONSTRUCTION

A-401.00 WALL SECTIONS - REMOVALS AND CONSTRUCTION

MISCELLANEOUS DETAILS

MECHANICAL SCHEDULES

<u>MECHANICAL</u>

A-501.00

M-001.00MECHANICAL ABBREVIATIONS, LEGEND, NOTES & SYMBOLS M-002.00MECHANICAL 2ND & 3RD FLOOR KEY PLANS M-101.00MECHANICAL 2ND & 3RD FLOOR INSTALLATION PART PLANS M-501.00MECHANICAL DETAILS

ELECTRICAL

M-601.00

E-001.00 ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, & DRAWING

E-002.00

2ND AND 3RD FLOOR KEY PLANS ELECTRICAL 2ND FLOOR SOUTH PART PLANS - REMOVALS & E-101.00 E-102.00 ELECTRICAL 2ND FLOOR NORTH PART PLANS - INSTALLATIONS E-103.00 ELECTRICAL 3RD FLOOR SOUTH PART PLANS - REMOVALS &

INSTALLATIONS E-104.00 ELECTRICAL 3RD FLOOR NORTH PART PLANS - REMOVALS & INSTALLATIONS E-501.00 ELECTRICAL PANEL SCHEDULES AND DETAILS

E-601.00 PARTIAL RISER DIAGRAMS — REMOVALS & INSTALLATIONS

<u>TELECOMMUNICATIONS</u>

TELECOMMUNICATIONS GENERAL NOTES TN-001.00 TELECOMMUNICATIONS 2ND FLOOR INSTALLATION PLAN TN-101.00 TN-102.00 TELECOMMUNICATIONS 3RD FLOOR INSTALLATION PLAN TELECOMMUNICATIONS SINGLE LINE RISER DIAGRAM TN-400.00

West 136th Street

RESPONSIBILITY

LOCATION PLAN

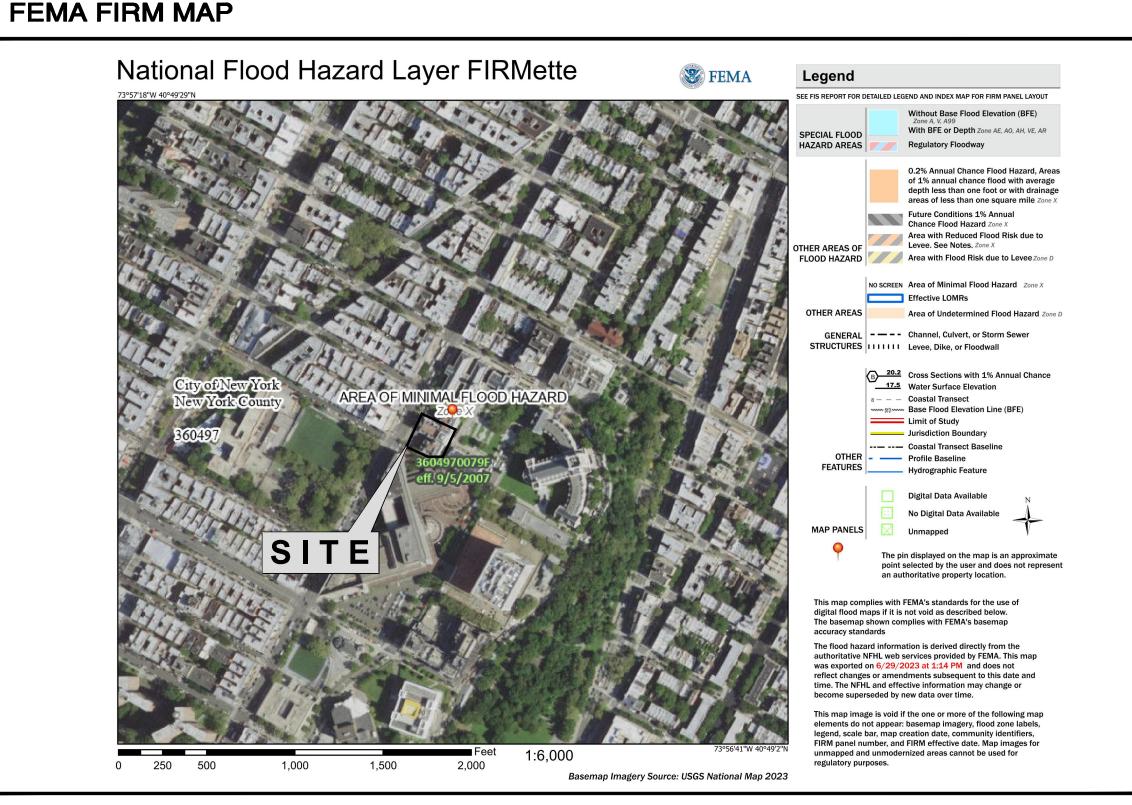
West 141st Street

West 140th Street

West 139th Street

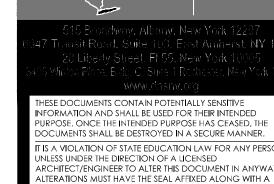
West 138th Street

SITE



SPECIAL FLOOD HAZARD AREA NOTE

PER NYC FIRM MAP PUBLISHED BY FEMA SEPTEMBER 5 2007 PANEL 3604970079F THE BUILDING FALLS WITHIN "OTHER AREAS - NO SCREEN - AREA OF MINIMAL FLOOD HAZARD - ZONE X" WHICH IS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE OF ANNUAL CHANCE FLOODPLAIN. HENCE, BUILDING IS NOT LOCATED WITHIN THE "FLOOD HAZARD AREA"



NEW YORK

STATE OF OPPORTU

DASNY

SCRIPTION OF THE ALTERATIONS, DATE AND RCHITECT'S/ENGINEER'S SIGNATURE. COPYRIGHT © 2022

Consultants: DESIGN ARCHITECT

West 140th Street

West 139th Street

West 138th Street

West 137th Street

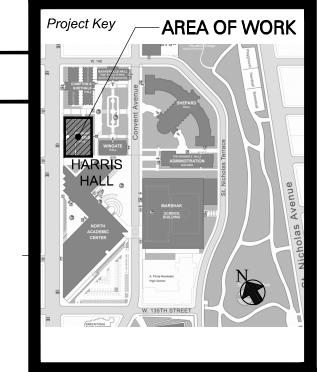
West 136th Str

AHUJA PARTNERSHIP ARCHITECTS 200 Varick Street, Suite 512, New York, NY100 Tel: (212) 675-5560 Fax: (212) 675-556

MEP ENGINEER

Burns

BURNS ENGINEERING, PC I BURNS-GROUP COM 44 WEST 28TH STREET, 16TH FLOOR NEW YORK, NY 100001 | 212 962-3503



REVISIONS Description Date: 09/24/2024 ISSUED FOR BID

DORMITORY AUTHORIT OF THE STATE OF NEW YORK 8 LIBERTY STREET, 55TH FLOOI NEW YORK, NY 10005

CNY - HARRIS HALL IT UPGRAD 1589 AMSTERDAM AVENUE NEW YORK, NY 10031

Drawing Title GENERAL, REMOVAL, DOB & OSHA NOTES, DRAWING

Project Title

LIST & MAPS BID SUBMISSION



3822309999⁷/ CR1 Consultant Project No. AS NOTE Drawn By: Checked By:

09.24.2024

DASNY Project I

Drawing Number Drawing

ENERGY CODE EXEMPTION SUMMARY

SCOPE OF WORK:
THE REMOVAL OF (6) EXISTING 2'-10" x 4'-4" ALUMINUM WINDOW PANELS TO FACILITATE THE INSTALLATION OF (6) 2'-8" x 4'-4" WINDOW FRAME MOUNTED LOUVERS FOR NEW AIR CONDITIONING EQUIPMENT.

AS PER 1 RCNY 5000-01 (e)(2) EXEMPTION. 'ONLY APPLICATIONS THAT CONSIST ENTIRELY OF WORK EXEMPT FROM THE ENERGY CODE MAY INDICATE EXEMPTION IN THE PROFESSIONAL STATEMENT. THE APPLICATION MUST STATE ONE OF THE FOLLOWING BASES FOR

(i) HISTORIC BUILDING. ANY ALTERATION TO AN HISTORIC BUILDING IS EXEMPT. ANY ADDITION TO AN HISTORIC BUILDING IS NOT EXEMPT, AND MUST MEET THE REQUIREMENTS OF THE ECC FOR NEW CONSTRUCTION.

AS PER 2020 NYCECC CHAPTER C5 EXISTING BUILDINGS:

C501.6 HISTORIC BUILDINGS. PROVISIONS OF THIS CODE RELATING TO THE CONSTRUCTION, REPAIR, ALTERATION, RESTORATION AND MOVEMENT OF STRUCTURES, AND CHANGE OF OCCUPANCY SHALL NOT BE MANDATORY FOR HISTORIC BUILDINGS.



WORK SCOPE AND EXEMPTION SUMMARY [EN-001.00] Scale: 1' = 1'-0"



INFORMATION AND SHALL BE USED FOR THEIR INTENDED PURPOSE. ONCE THE INTENDED PURPOSE HAS CEASED, THE DOCUMENTS SHALL BE DESTROYED IN A SECURE MANNER. IT IS A VIOLATION OF STATE EDUCATION LAW FOR ANY PERSON UNLESS UNDER THE DIRECTION OF A LICENSED ARCHITECT/ENGINEER TO ALTER THIS DOCUMENT IN ANYWAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATIONS, DATE AND ARCHITECTS (FIGURE 1975) SEAL AT URLE CONVENIENT OF CONVENIENT OR CONVENIENT OF CONVENIENT OR CONVENIENT OF CONVENIENT OR CONVENIENT OF C ARCHITECT'S/ENGINEER'S SIGNATURE. COPYRIGHT © 2022

Consultants:

DESIGN ARCHITECT

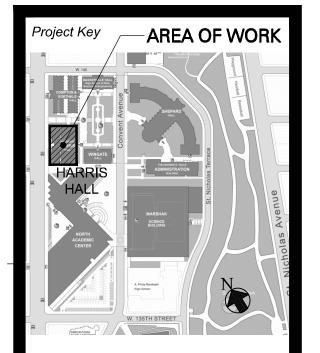
AHUJA PARTNERSHIP ARCHITECTS 200 Varick Street, Suite 512, New York, NY10014 Tel: (212) 675-5560 Fax: (212) 675-5562

MEP ENGINEER

Burns

BURNS ENGINEERING, PC |

BURNS-GROUP.COM 44 WEST 28TH STREET, 16TH FLOOR NEW YORK, NY 100001 | 212 962-3503



	RE\	/ISIONS	
	Rev No	Description	Date:
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		ISSUED FOR BID	09/24/2024

DORMITORY AUTHORITY OF THE STATE OF NEW YORK 28 LIBERTY STREET, 55TH FLOOR NEW YORK, NY 10005

CCNY - HARRIS HALL IT UPGRADE 1589 AMSTERDAM AVENUE NEW YORK, NY 10031

Drawing Title

ENERGY CODE - BUILDING ENVELOPE

Phase BID SUBMISSION



Scale:
AS NOTED
Drawn By:

EN-001.00

ABBREVIATIONS		I		I	LEGEND AND SYMBOLS	
AC ACC ACC ACC ACC ACC ACC ACC	HTG HVAC	HEATING HEATING VENTILATION & AIR CONDITIONING	T TC	TOILET / TREAD TERRA COTA	NOTE: LEGEND SHOWN ON INDIVIDUAL DRAWINGS SHALL HAVE PRECEDENCE OVER THIS LEGEND FOR RESPECTIVE DRAWINGS.	
AC ACCESSORY(IES) A/C AIR CONDITIONING ACM ASBESTOS CONTAINING MATERIAL	ID 1011	INSIDE DIAMETER	TD TEL TEMP.	TRENCH DRAIN TELEPHONE TEMPLATE	BATT INSULATION	
ACP ACCESS PANEL ACT ACOUSTICAL CEILING TILE ADJ ADJACENT	IGU IN INCL.	INSULATING GLASS UNIT INCH INCLUDE(ING)	THK. T&G T.O.	THICK(NESS) TONGUE & GROOVE TOP OF		
AFF ABOVE FINISHED FLOOR ALUM. ALUMINUM ALT ALTERNATE	INSUL. INT INV	INSULATION INTERIOR INVERT	TOP TOS TOW	TOP OF PARAPET TOP OF SLAB TOP OF WALL	ALUMINUM IN SECTION	
ANG ANGLE ANOD ANODIZED	JC	JANITOR'S CLOSET	TV TYP.	TELEVISION TYPICAL	STEEL IN SECTION	
AOW AREA OF WORK APPROX. APPROXIMATE ARCH ARCHITECTURE	JST(S) JT(S)		U UC	URINAL UNDERCUT	EXISTING STEEL IN SECTION	
ASPH ASPHALT AUTO AUTOMATIC BC BLOCK / BRICK COURSE	KD KIT	KNOCK DOWN KITCHEN	UH UL UOB	UNIT HEATER UNDERWRITER'S LABORATORY UNDERSIDE OF BEAM	PLYWOOD	
BS BOTH SIDES BD BOARD	KO LAB	KNOCK OUT LABORATORY	UOS UNO	UNDERSIDE OF SLAB UNLESS NOTED OTHERWISE		
BET BETWEEN BITUM BITUMINOUS BLDG BUILDING	LAM LAV LBL	Laminate Lavatory Label	V VB	VINYL / VENT VAPOR BARRIER/VINYL BASE	REFERENCE ITEM TYPE REFERENCE ITEM NUMBER	
BLK BLOCK BLKG BLOCKING	LCC LD	LEAD COATED COPPER LEADER DRAIN	VCT VERT. VEST.	VINYL COMPOSITION TILE VERTICAL VESTIBULE	DRAWING NUMBER REFERENCED	
BR BULLET RESISTANT BTM BOTTOM	LDR LF LGTH	LEADER LIGHT FIXTURE LENGTH	VIF VP	VERIFY IN FIELD VISION PANEL	TYPE OF REFERENCE S=SECTION; P=PLAN; D=DETAIL	
_ B.O. BOTTOM OF BU BUILT- UP BW BOTH WAYS	LH LL LP	LEFT HAND LIVE LOAD LOW POINT	W W/	WEST WITH	REFERENCE LOCATION DRAWING NUMBER REFERENCED	
CAB CABINET	LR LT.	LIVING ROOM LIGHT	WC	WATER CLOSET/ WALL COVERING WOOD	ELEVATION REFERENCE	
CAI COMBUSTION AIR INTAKECB CATCH BASIN	LTG LV L W	LIGHTING LOUVER LIGHT WEIGHT	WG WID WIN	WIRE GLASS WIDTH WINDOW	ELEVATION LOCATION DRAWING NUMBER REFERENCED	
CC CONSTRUCTION CONTRACT CLG CEILING CEM CEMENT	М	MIRROR MASONRY	WK WM	WORK WOMEN	DRAWING NUMBER REFERENCED	
CF CUBIC FOOT CG CORNER GUARD	MAS MAT MAX	MATERIAL MAXIMUM	WP WR WT.	WATERPROOFING WATER RESISTANT WEIGHT	1) INTERIOR ELEVATION REFERENCED	
CH CEILING HEIGHT CI CAST IRON C.I.E. CHANGE IN ELEVATIONS	MBR MECH. MED	MEMBER MECHANICAL MEDIUM	WWF WWM	WELDED WIRE FABRIC WELDED WIRE MESH	OFFICE- ROOM NAME REFERENCED	
CIR CIRCLE CJ CONTROL JOINT CL CHAIN LINK	MEP MER	MECHANICAL, ELECTRICAL, PLUMBING MECHANICAL EQUIPMENT ROOM	YD	YARD DRAIN	3101 ROOM NUMBER REFERENCED AREA NUMBER REFERENCED	
CLR CLEAR CMU CONCRETE MASONRY UNIT	MFR. MH MIN	MANUFACTURER MAN HOLE MINIMUM			FLOOR NUMBER REFERENCED CENTER LINE	
CO CLEAN OUT CO. COMPANY COL. COLUMN	MISC MLDG MO	MISCELLANEOUS MOULDING MASONRY OPENING			123 DOOR NUMBER	
COMM. COMMUNICATION COMP. COMPOSITION	MS MT	MARBLE SADDLE MENS' TOILETS			DOOK NOMBER	
CONC. CONCRETE CONST. CONSTRUCTION CONT. CONTINUOUS	MTD MTL	MOUNTED METAL			W5 WINDOW NUMBER	
CONTR. CONTRACTOR C.R. COLD ROLLED	N NAT N.I.C.	NORTH NATURAL NOT IN CONTRACT			GL1 GLAZING NUMBER	
CRZ CRITICAL ROOT ZONE CT CERAMIC TILE CW CURTAIN WALL	NO(S) NOM	NUMBER(S) NOMINAL			+ PLUS	
DB DECORATIVE BLOCK DEMO. DEMOLITION	NTS OC	NOT TO SCALE ON CENTER			- MINUS	
DET DETAILDF DRINKING FOUNTAINDH DOUBLE HUNG	OD OF OH	OUTSIDE DIAMETER OUTSIDE FACE OVERHEAD			DATUM	
DIA DIAMETERDIM DIMENSION	OPER OPG OPP	OPERATORY OPENING OPPOSITE			HIDDEN BELOW OR ABOVE	
DIV DIVISION DL DEAD LOAD DN DOWN	OZ	OUNCE PAINT				
DO DITTO(REPEAT)/ DOOR OPENING DR DOOR DS DOWN SPOUT	P PART. PCF	PARTITION / PARTIAL POUNDS PER CUBIC FOOT			ARCHITECTURAL (GC) SCOPE OF WORL	K
D.W.F DRINKING WATER FOUNTAIN DWG.(S). DRAWING(S)	P.E. PD PL	PROFESSIONAL ENGINEER PAN DRAIN PROPERTY LINE			THE SCOPE OF WORK IN THIS SET INCLUDES THE FOLLOWING. ALL WORK IS LIMITED TFLOORS OF THE BUILDING (2ND AND 3RD FLOORS):	īO (2)
EAST EA EACH	P.LAM PLF	PLASTIC LAMINATED POUNDS PER LINEAR FOOT			1. REMOVAL OF (6) EXISTING ALUMINUM WINDOW PANELS (2'-10" x 4'-4" EACH) 2. REMOVAL OF EXISTING GYPSUM WALL BOARD WALLS AND CEILINGS TO FACILITATE	THE
EF EXHAUST FAN EJ EXPANSION JOINT EL/ELEV ELEVATION		PLYWOOD PLUMBING PANEL			INSTALLATION OF ELECTRICAL AND IT CONDUIT AND CABLES 3. INSTALLATION OF (6) WINDOW FRAME MOUNTED LOUVERS (2'-10" x 4'-4" EACH) 4. PATCHING OF GYPSUM WALL BOARD WALLS AND CEILINGS FOLLOWING ELECTRICAL) AND
ELEC. ELECTRICAL ENCL. ENCLOSURE ETC AND SO FORTH		PAIR B. PREFABRICATED PREPARATION			IT CONDUIT AND CABLE INSTALLATIONS. 5. INSTALLATION OF REQUIRED FIRESTOPPING AT FLOORS AND WALLS WHERE NEW CONDUIT AND IT CABLING PENETRATE REQUIRED RATED WALLS.	
C: EQ EQUAL EQUIP. EQUIPMENT	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH			6. INSTALLATION OF THROUGH WALL PIPE FOR NEW MECHANICAL UNIT CONDENSATE ON THE 2ND FLOOR.	LINES
EXIST. EXISTING EXP. EXPANSION EXT. EXTERIOR	PT PTD PVC	PRESSURE / PRESERVATIVE TREATED PAINTED POLYVINYL CHLORIDE			7. RE-PAINTING EXISTING WALLS / CEILINGS AS NEEDED.	
FA FIRE ALARM FAI FRESH AIR INTAKE	PDF R	POWER DRIVEN FASTENER RISERS / RADIUS				
FD FLOOR DRAIN - FE FIRE EXTINGUISHER	RAD RD	RADIATOR ROOF DRAIN				
FF FINISHED FLOOR FIN FINISH FIXT. FIXTURE	REF REINF. REQ'D	REFERENCE REINFORCED REQUIRED				
FL/FLR FLOOR(ING) FP FIREPROOF	RET REV	retaining Revision				
FT FOOT FTG FOOTING B FLASH. FLASHING	RH RM RO	RIGHT HAND ROOM ROUGH OPENING				
FOUND. FOUNDATION	ROT ROW	ROTATED RIGHT OF WAY				
G GREASE INTERCEPTOR GA GAUGE GALV. GALVANIZED	S SAN	SOUTH / SINK SANITARY				
GB GRAB BAR GC GENERAL CONSTRUCTION	SCHED SECT.					
GEN GENERAL GLASS	SF SHT	SQUARE FOOT SHEET				
GRD GRADE GWB GYPSUM WALL BOARD GYP. BD.GYPSUM BOARD	SIM S.P. SPECS	SIMILAR START POINT SPECIFICATIONS				
HB HOSE BIBB HC HOLLOW CORE	SQ. FT SS	SQUARE FOOT (FEET) STAINLESS STEEL				
HDR HEADER HDW HARDWARE	STD STL STOR	STANDARD STEEL STORAGE				
HGT HEIGHT HM HOLLOW METAL HP HIGH POINT	STRUC [*] SUSP.	T. STRUCTURAL SUSPENDED				
HR HAND RAIL / HOUR HORIZ. HORIZONTAL	SYM	SYMMETRICAL				

FIRESTOPPING SCHEDULE AND PENETRANT DIAGRAM

SCHEDULE OF THROUGH-PENETRATION FIRESTOP SYSTEMS FIRESTOP SYSTEMS ARE LISTED USING THE ALPHA-ALPHA-NUMERICAL IDENTIFICATION SYSTEM PUBLISHED IN UL FIRE RESISTANCE DIRECTORY, VOLUME IIA and IIB, CURRENT EDITION.

CONSTRUCTION ACCEPTABLE SYSTEMS FOR FLOOR PENETRATIONS (FIRST ALPHA COMPONENT = C or F)		IETRATIONS	ACCEPTABLE SYSTEMS FOR WALL PENET (FIRST ALPHA COMPONENT = C or W)		
TYPE OF PENETRANT	CONCRETE FLOORS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 5 INCHES	CONCRETE FLOORS WITH A MINIMUM THICKNESS GREATER THAN 5 INCHES	CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 8 INCHES	CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS GREATER THAN 8 INCHES	FRAMED WALLS (VARYING THICKNESS)
NO PENETRATING ITEMS	F-A-0000 - 0999 OR C-A*-0000 - 0999	F-B-0000 - 0999 OR C-B*-0000 - 0999	W-J-0000 - 0999 OR C-*J-0000 - 0999	N/A	W-L-0000 - 0999 OR C-*L-0000 - 0999
METALLIC PIPE, CONDUIT OR TUBING	F-A-1000 - 1999 OR C-A*-1000 - 1999	F-B-1000 - 1999 OR C-B*-1000 - 1999	W-J-1000 - 1999 OR C-*J-1000 - 1999	W-K-1000 - 1999 OR C-*K-1000 - 1999	W-L-1000 - 1999 OR C-*L-1000 - 1999
NONMETALLIC PIPE, CONDUIT OR TUBING	F-A-2000 - 2999 OR C-A*-2000 - 2999	F-B-2000 - 2999 OR C-B*-2000 - 2999	W-J-2000 - 2999 OR C-*J-2000 - 2999	N/A	W-L-2000 - 2999 OR C-*L-2000 - 2999
ELECTRICAL CABLES	F-A-3000 - 3999 OR C-A*-3000 - 3999	F-B-3000 - 3999 OR C-B*-3000 - 3999	W-J-3000 - 3999 OR C-*J-3000 - 3999	N/A	W-L-3000 - 3999 OR C-*L-3000 - 3999
CABLE TRAYS WITH ELECTRICAL CABLES	F-A-4000 - 4999 OR C-A*-4000 - 4999	F-B-4000 - 4999 OR C-B*-4000 - 4999	W-J-4000 - 4999 OR C-*J-4000 - 4999	W-K-4000 - 4999 OR C-*K-4000 - 4999	W-L-4000 - 4999 OR C-*L-4000 - 4999
INSULATED PIPES	F-A-5000 - 5999 OR C-A*-5000 - 5999	F-B-5000 - 5999 OR C-B*-5000 - 5999	W-J-5000 - 5999 OR C-*J-5000 - 5999	N/A	W-L-5000 - 5999 OR C-*L-5000 - 5999
MISCELLANEOUS ELECTRICAL PENETRANTS	F-A-6000 - 6999 OR C-A*-6000 - 6999	N/A	W-J-6000 - 6999 OR C-*J-6000 - 6999	N/A	W-L-6000 - 6999 OR C-*L-6000 - 6999
MISCELLANEOUS MECHANICAL PENETRANTS	F-A-7000 - 7999 OR C-A*-7000 - 7999	N/A	W-J-7000 - 7999 OR C-*J-7000 - 7999	N/A	W-L-7000 - 7999 OR C-*L-7000 - 7999
GROUPINGS OF PENETRATIONS	F-A-8000 - 8999 OR C-A*-8000 - 8999	F-B-8000 - 8999 OR C-B*-8000 - 8999	W-J-8000 - 8999 OR C-*J-8000 - 8999	N/A	W-L-8000 - 8999 OR C-*L-8000 - 8999
NOTES:			NUMBERING SYS	STEM:	

NOTES:

1. FOR EACH LOCATION WHERE A FIRE BARRIER (FIRE RESISTANCE RATED FLOOR OR WALL CONSTRUCTION) IS PENETRATED, PROVIDE A UL-LISTED THROUGH-PENETRATION FIRESTOP ASSEMBLY IN ACCORDANCE WITH THIS SCHEDULE AND IN COMPLIANCE WITH ADDITIONAL REQUIREMENTS SPECIFIED IN SECTION 07841 AS APPLICABLE TO EACH PENETRATION CONDITION.

2. ACTUAL UL LISTINGS FOR C-SERIES SYSTEMS CONTAIN AN ADDITIONAL ALPHA CHARACTER IDENTIFIED BY AN ASTERISK ON THIS SCHEDULE

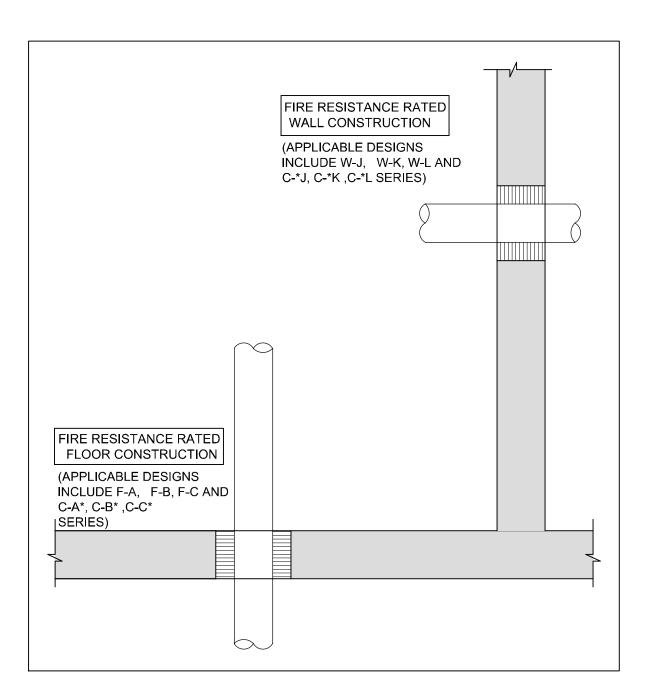
NUMBERING SYSTEM:

MAIN FIRE BARRIER
IDENTIFICATION

C-A*-0001

SECONDARY FIRE BARRIER
IDENTIFICATION(S)

PENETRANT IDENTIFICATION







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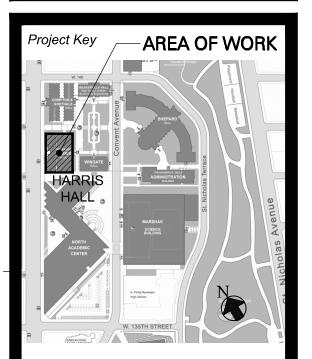
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DORMITORY AUTHORITY
OF THE STATE OF NEW YORK
28 LIBERTY STREET, 55TH FLOOR
NEW YORK, NY 10005

Project Title

CCNY - HARRIS HALL IT UPGRADE 1589 AMSTERDAM AVENUE NEW YORK, NY 10031

ARCH. SCOPE OF WORK,

LEGEND, FIRESTOPPING
SCHEDULE & DETAIL

Phase
BID SUBMISSION

Professional Seal & Signature

Date:
09.24.2024
DASNY Project No:
3822309999 / CR163



Drawing Title

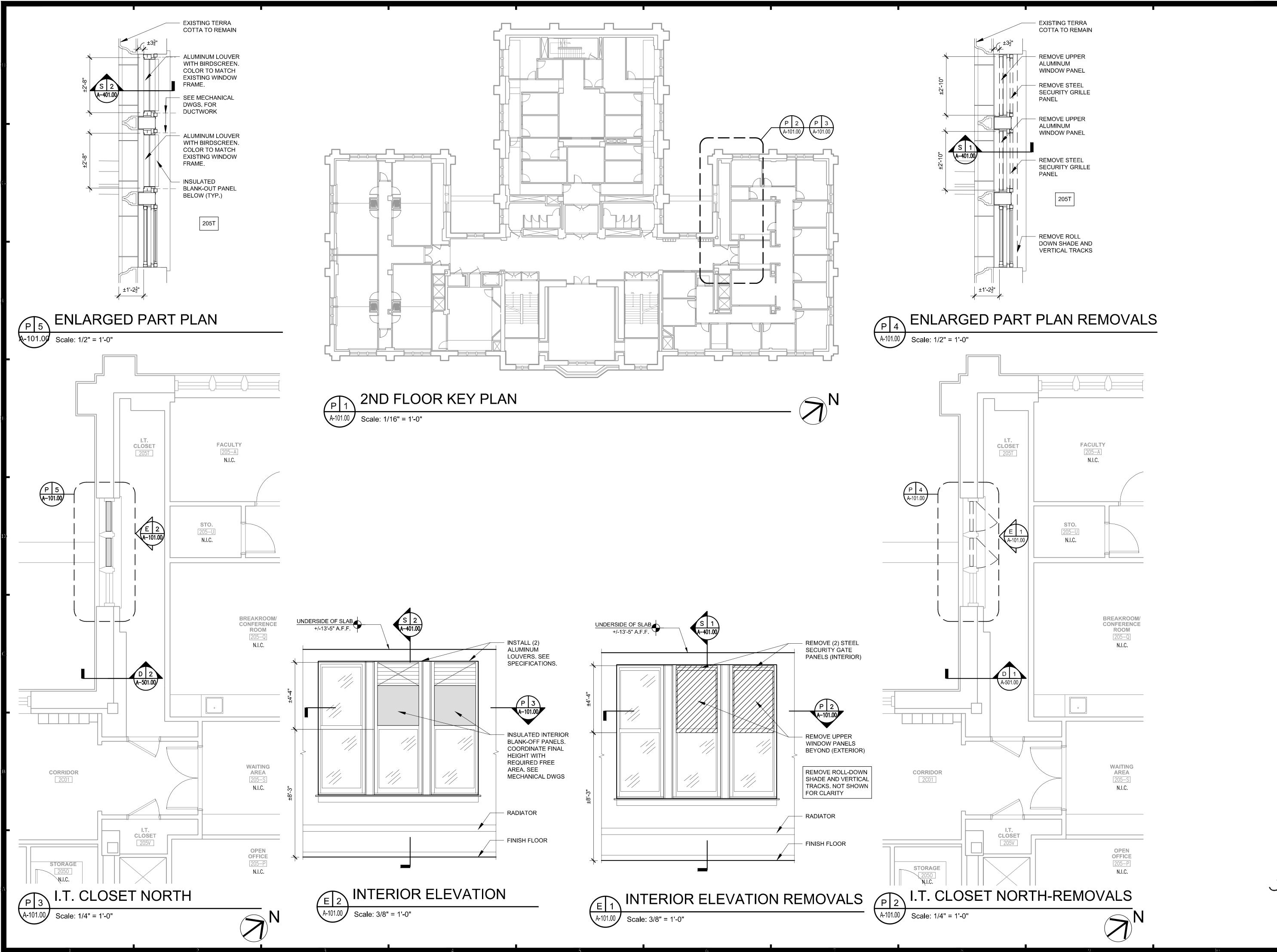
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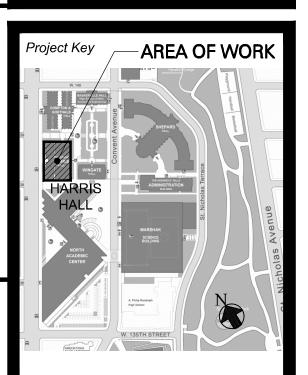
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MEP ENGINEER

Burns

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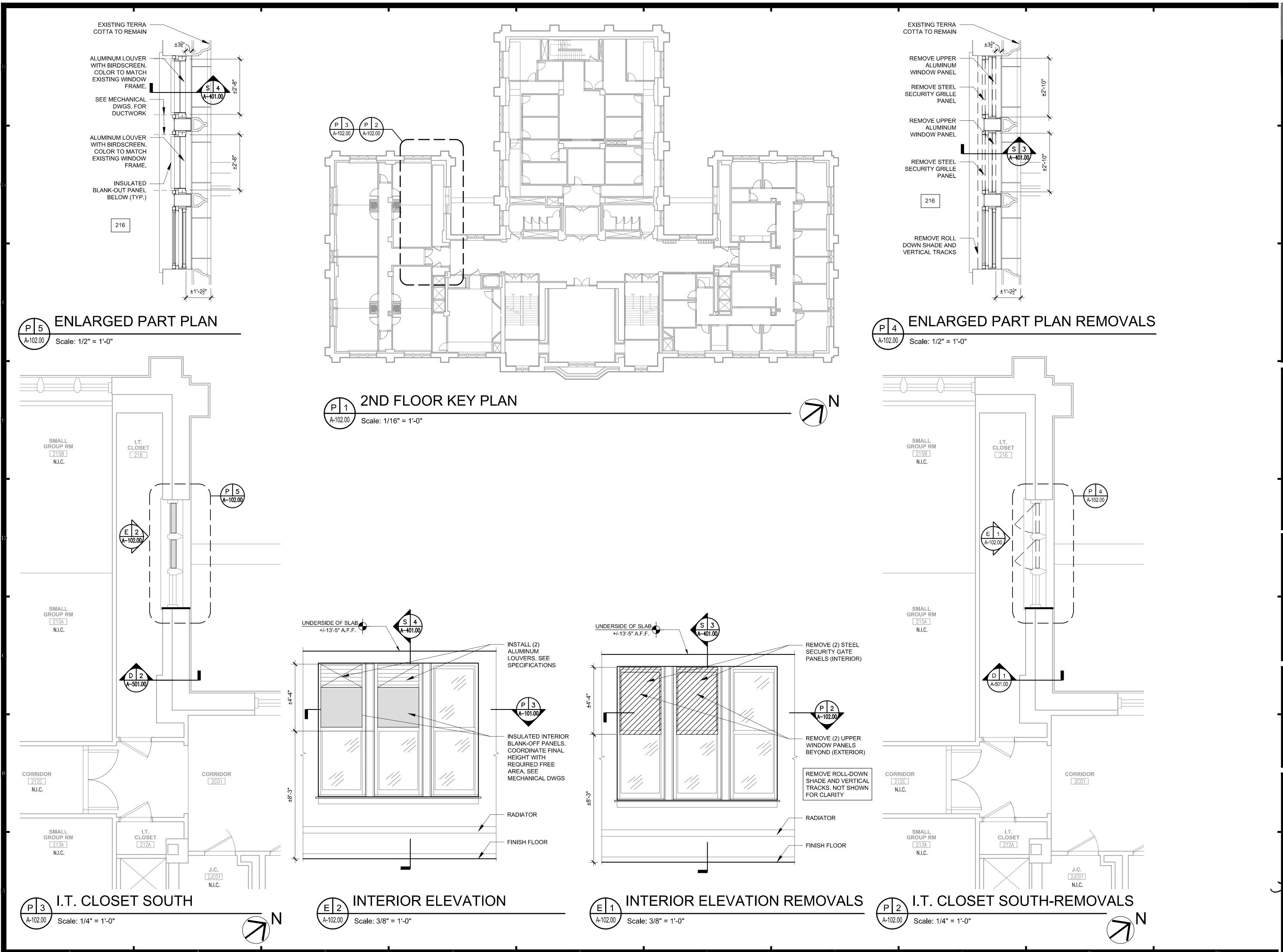
SECOND FLOOR PLAN NORTH - REMOVALS AND CONSTRUCTION

- BID SUBMISSION



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3822309999 | CR163
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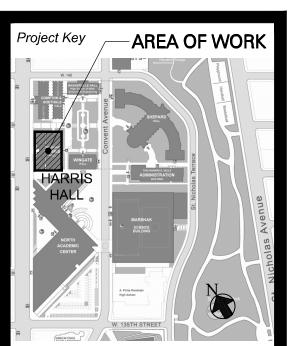
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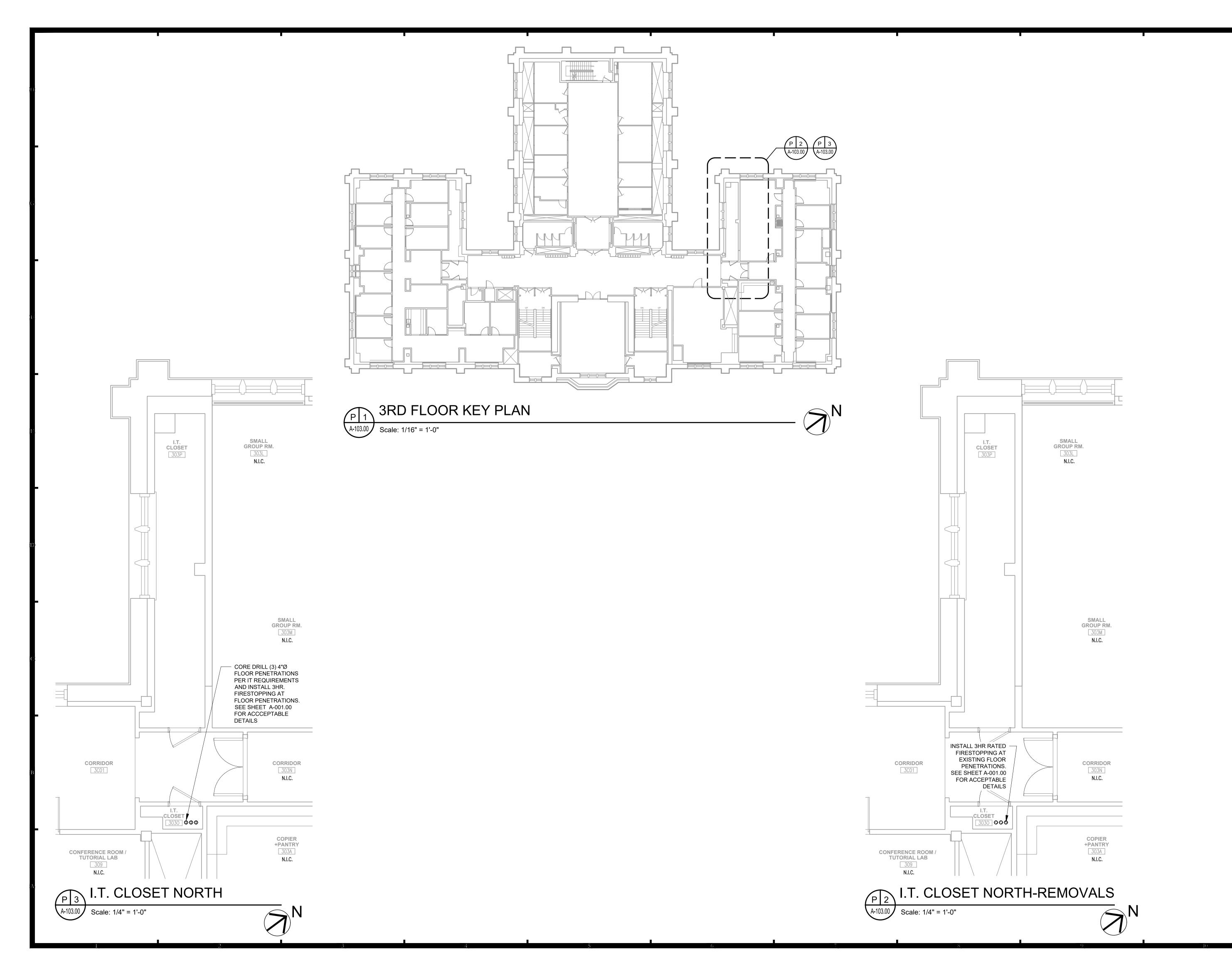
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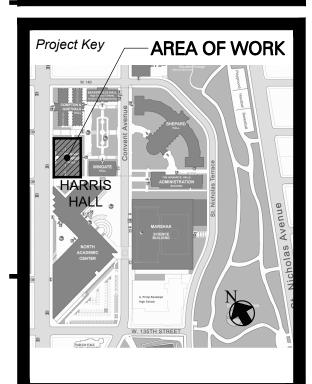
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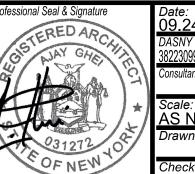
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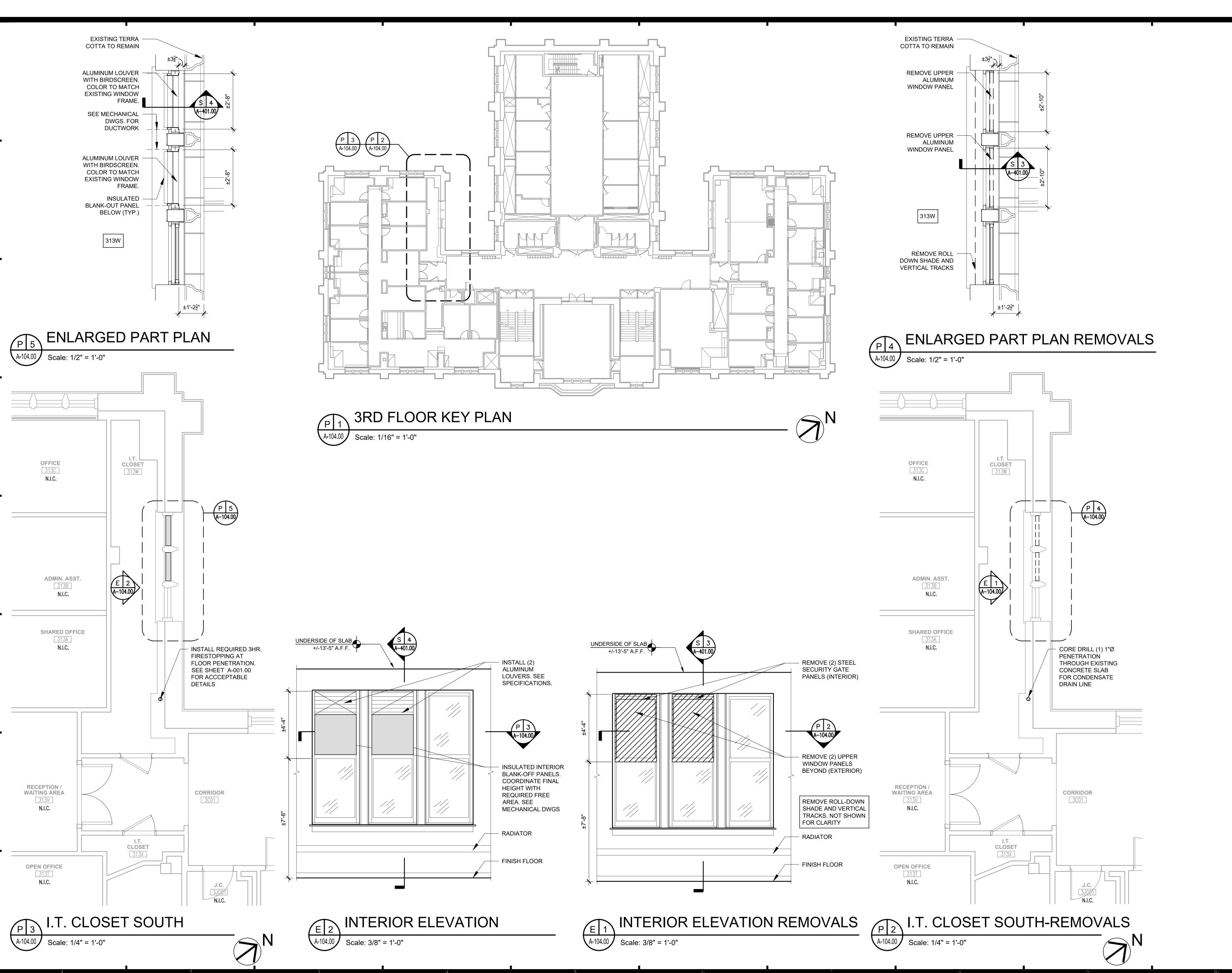
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THIRD FLOOR PLAN NORTH - REMOVALS AND CONSTRUCTION

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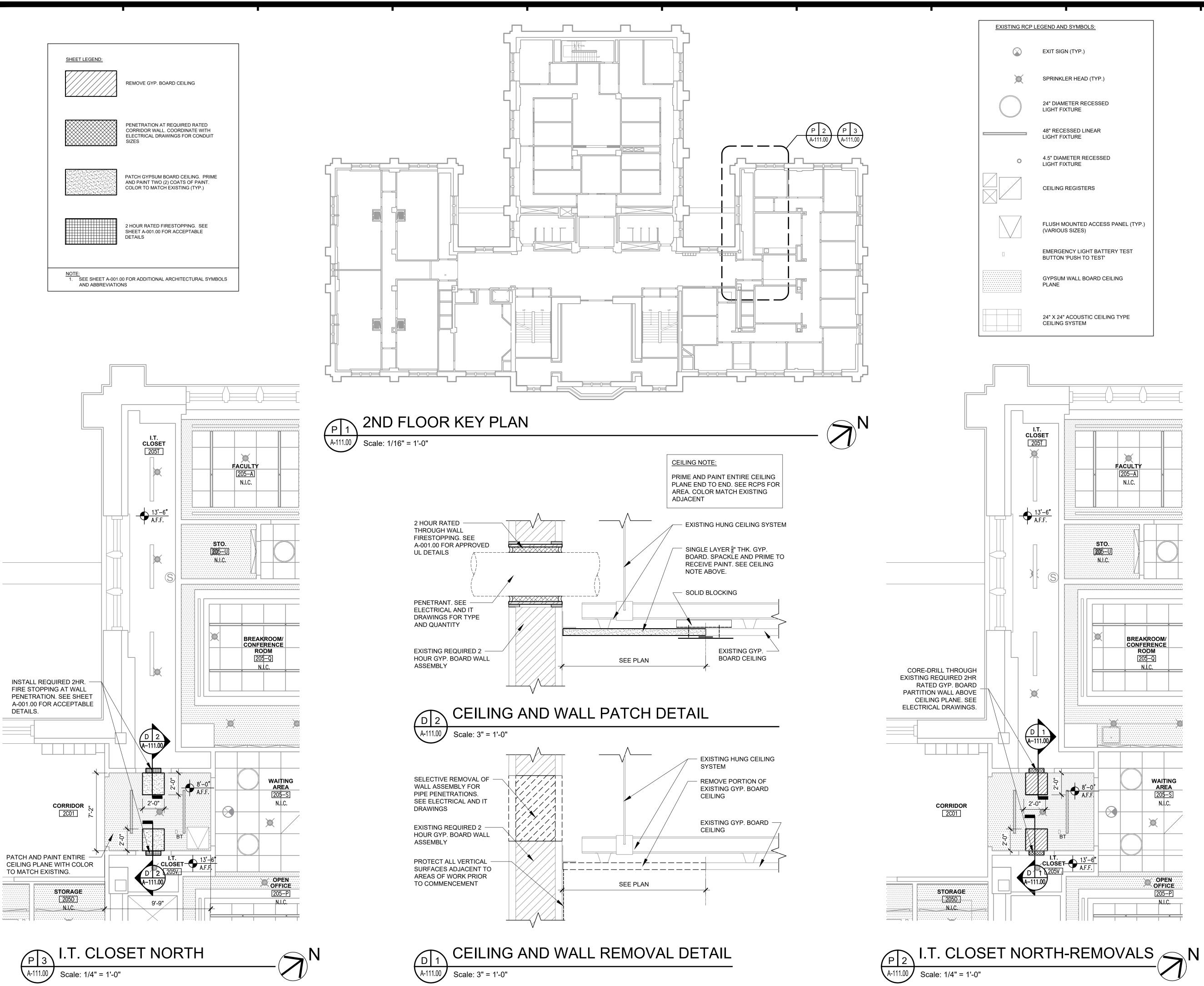
THIRD FLOOR PLAN
SOUTH - REMOVALS AND
CONSTRUCTION

Phase
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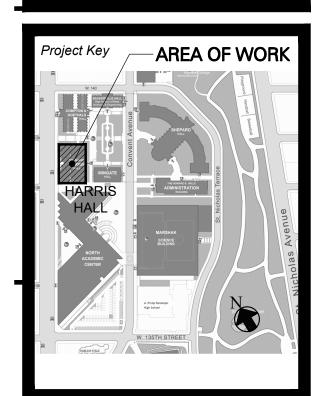
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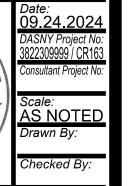
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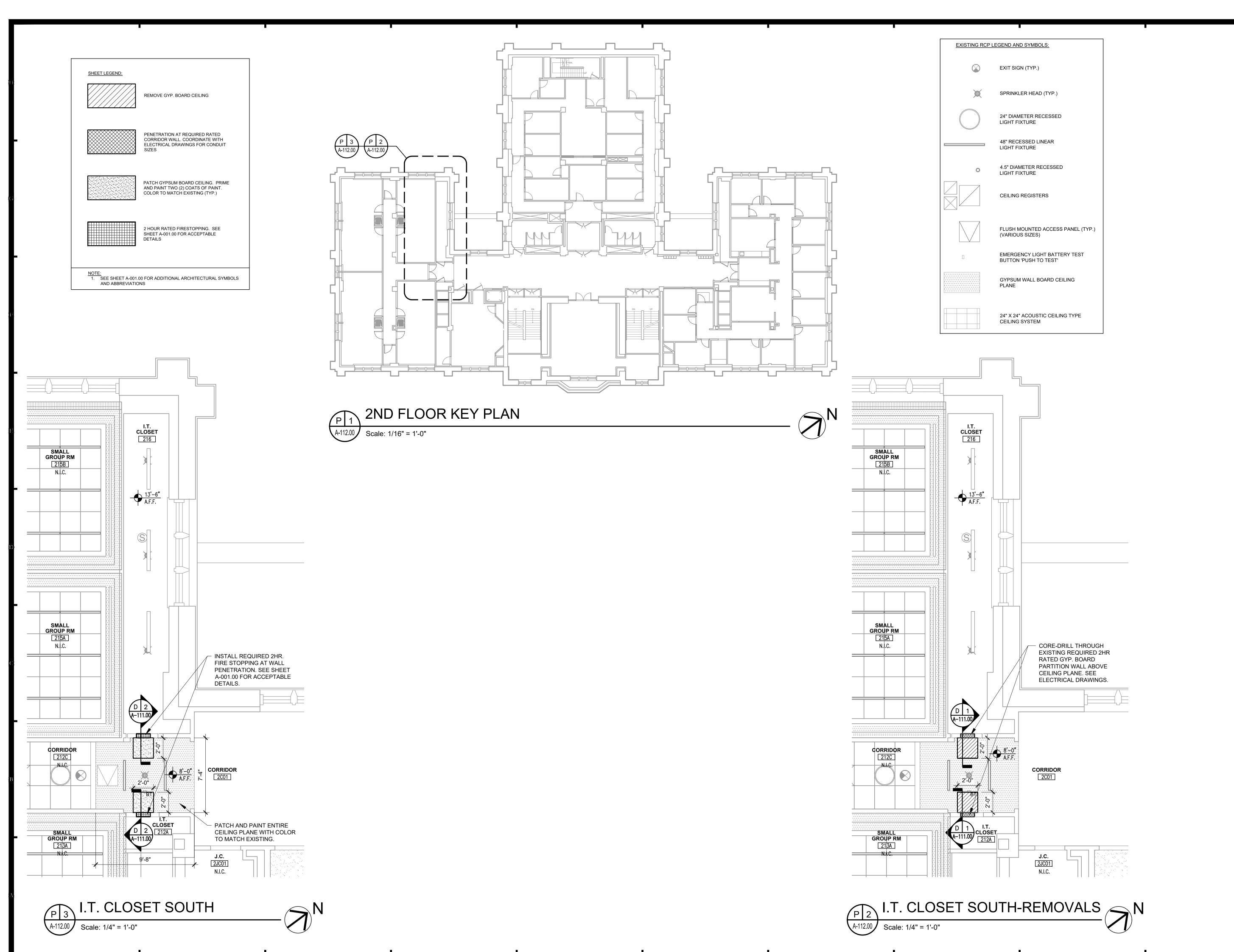
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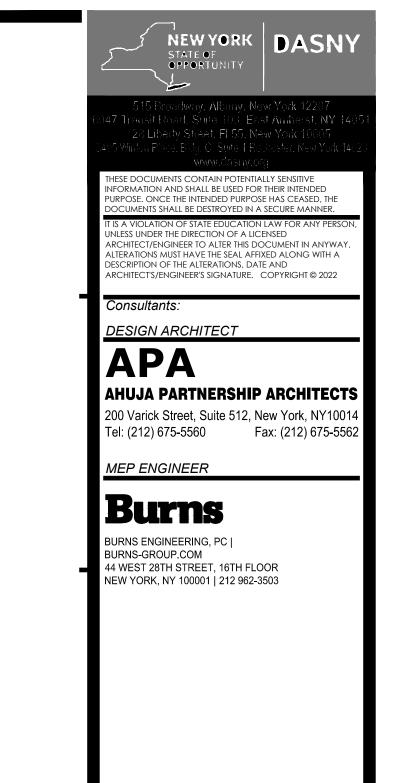
Drawing Title SECOND FLOOR RCP NORTH - REMOVALS AND CONSTRUCTION

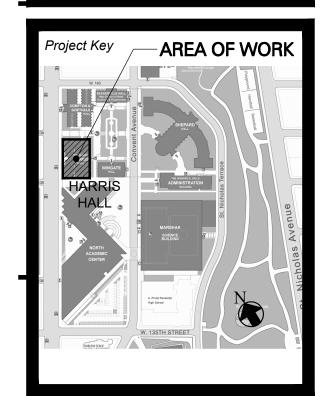
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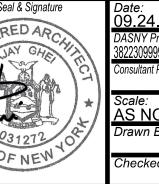
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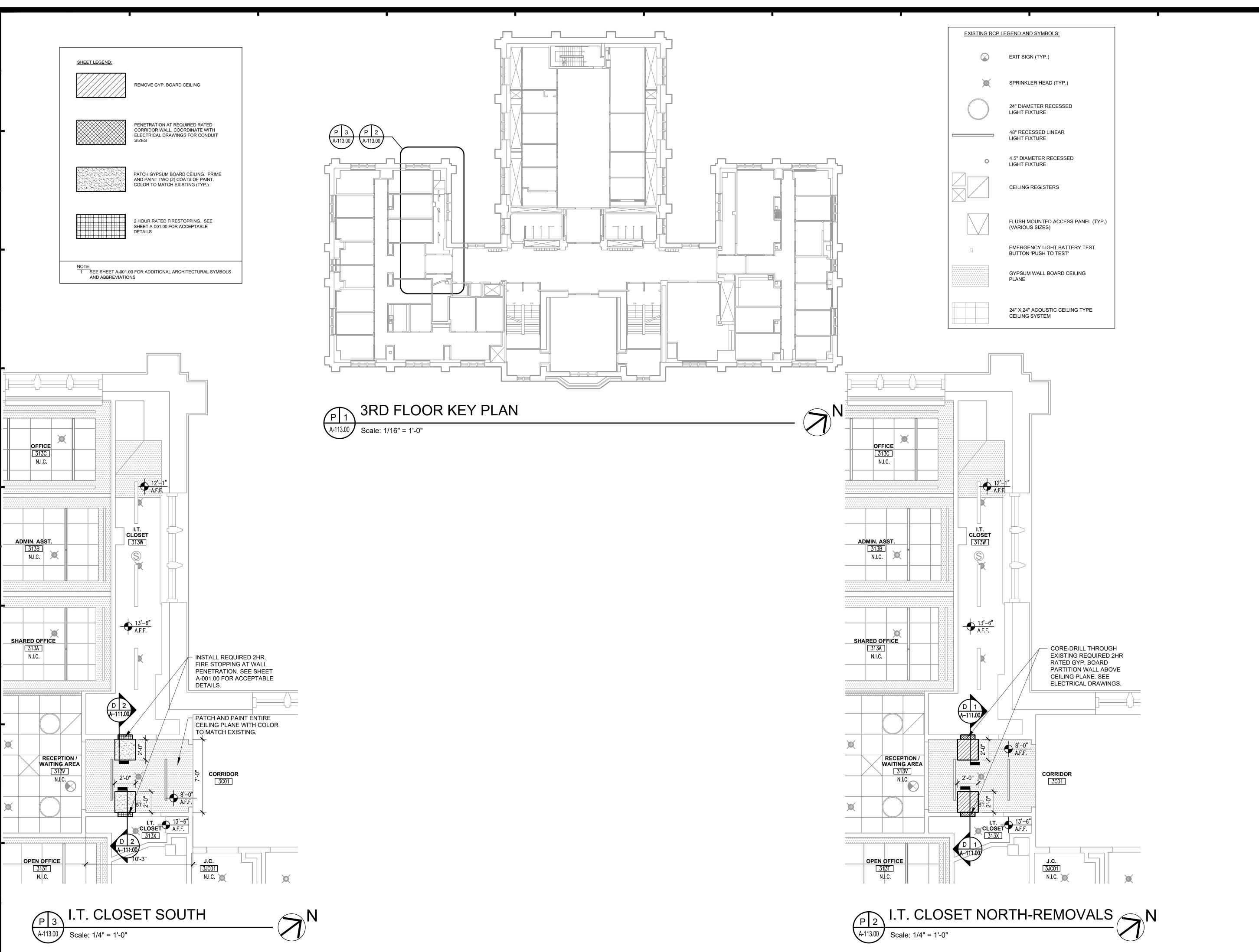
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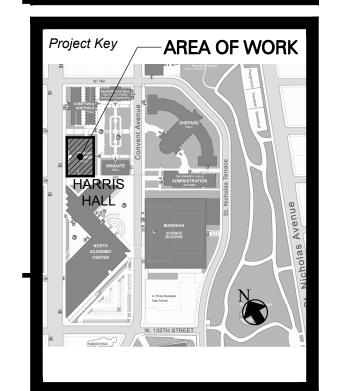
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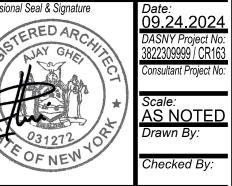
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Drawing Title THIRD FLOOR RCP SOUTH

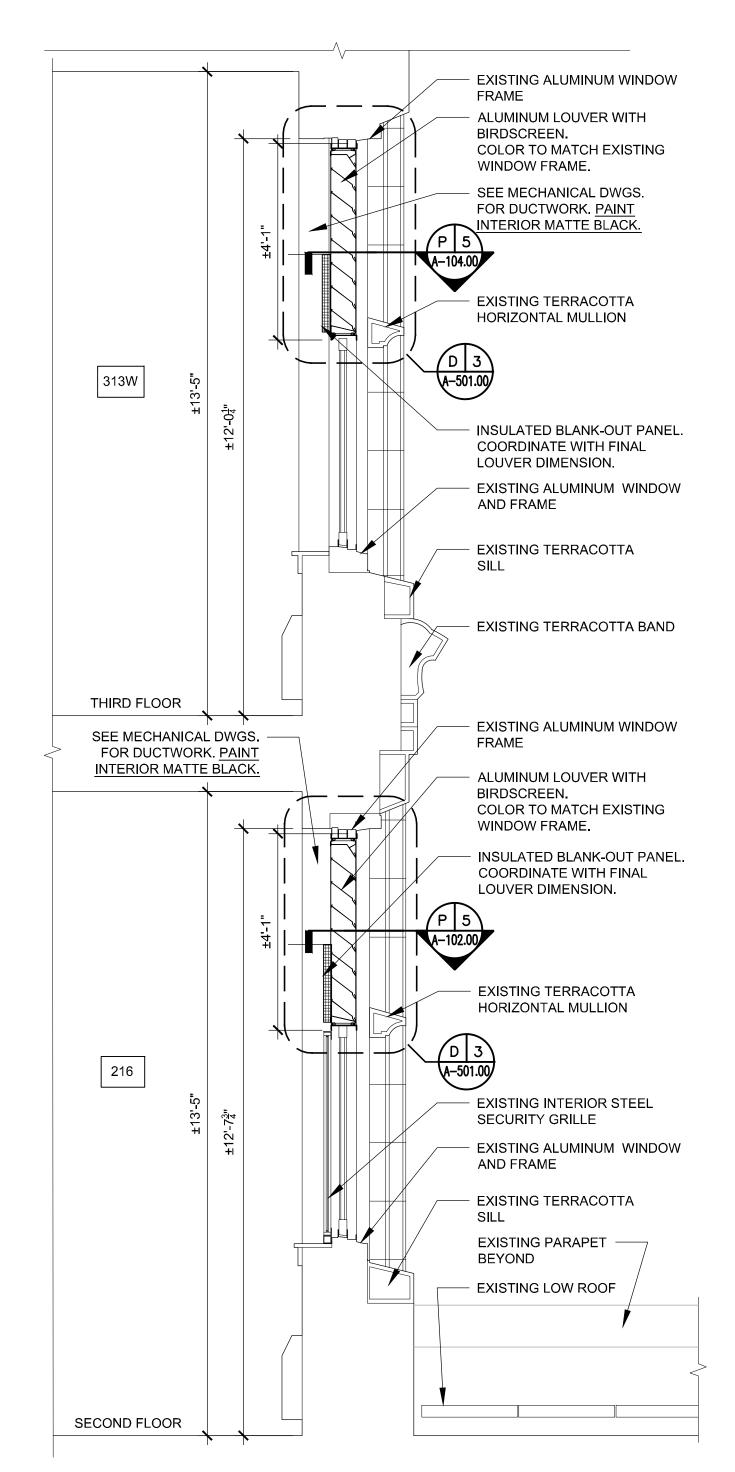
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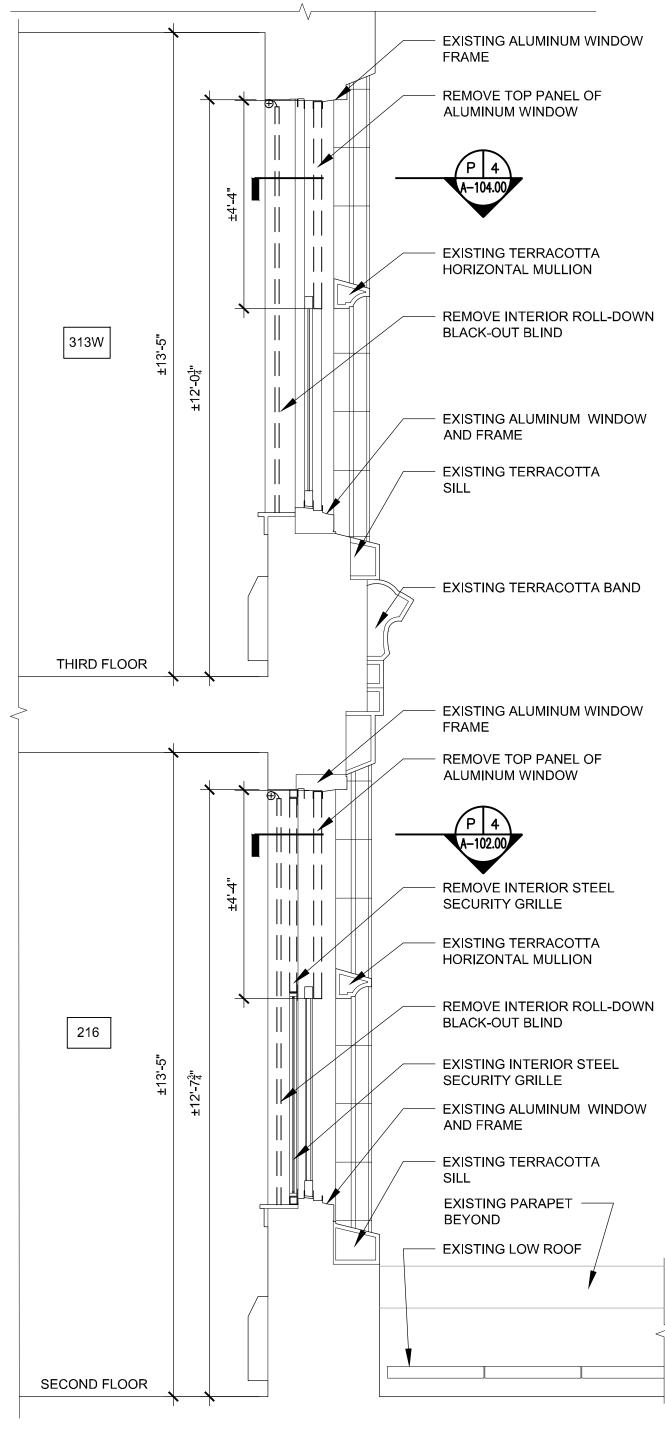


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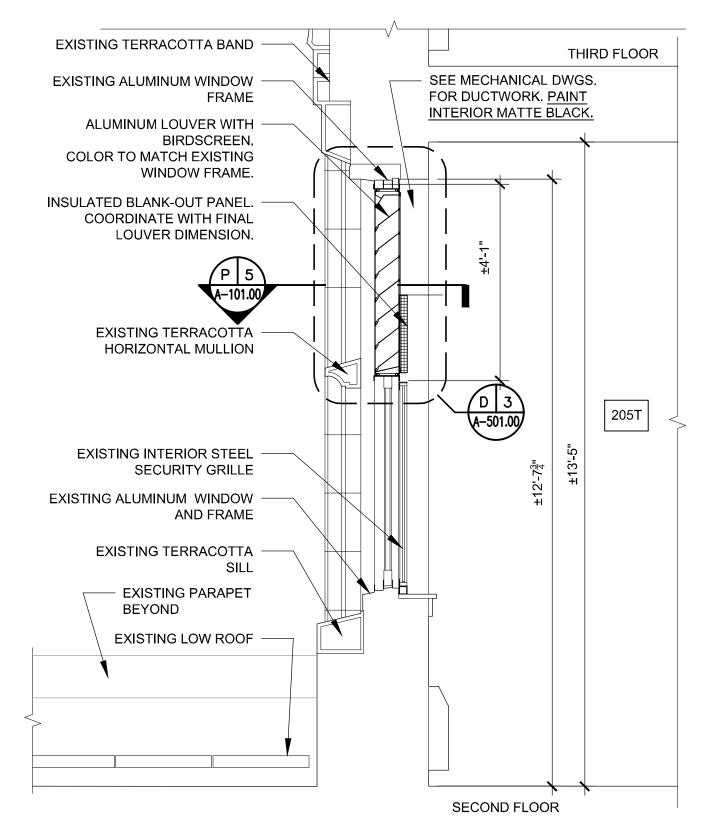
ROOMS 216 AND 313W LOUVERS

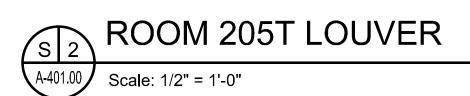
A-401.00 Scale: 1/2" = 1'-0"

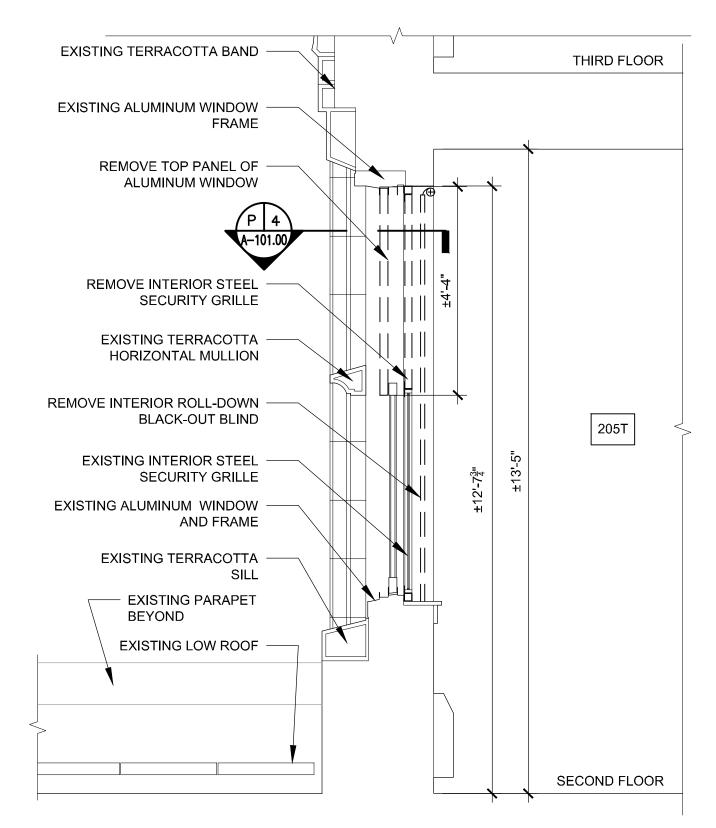


S 3 ROOMS 216 AND 313W REMOVALS

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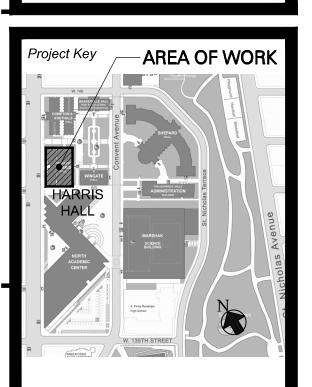
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NEW YORK, NY 10005

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NEW YORK, NY 10031

Drawing Tit

WALL SECTIONS -REMOVALS AND CONSTRUCTION

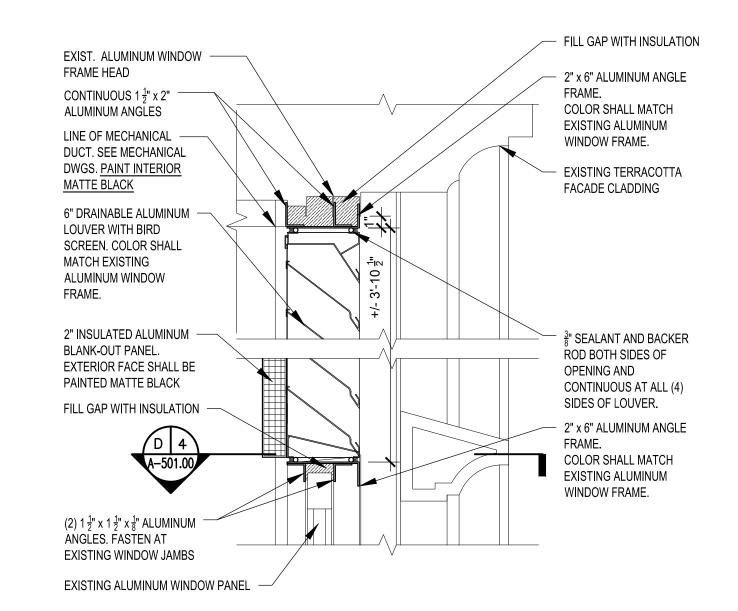
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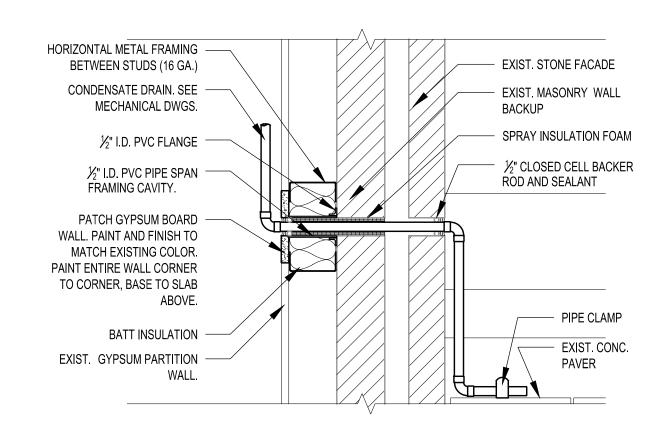
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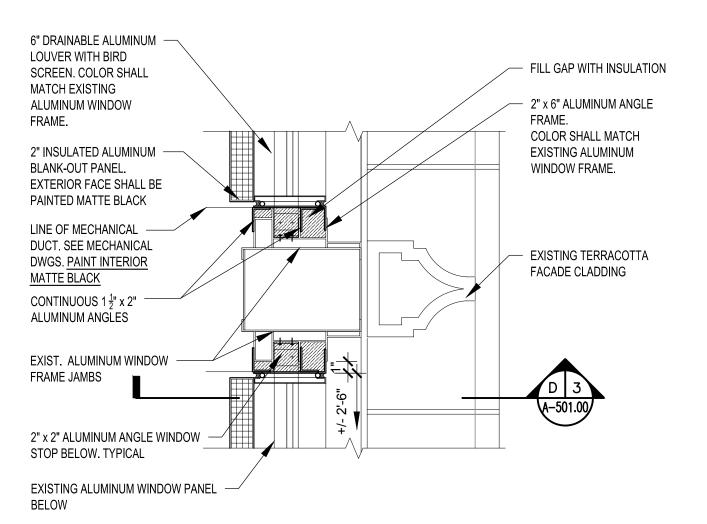
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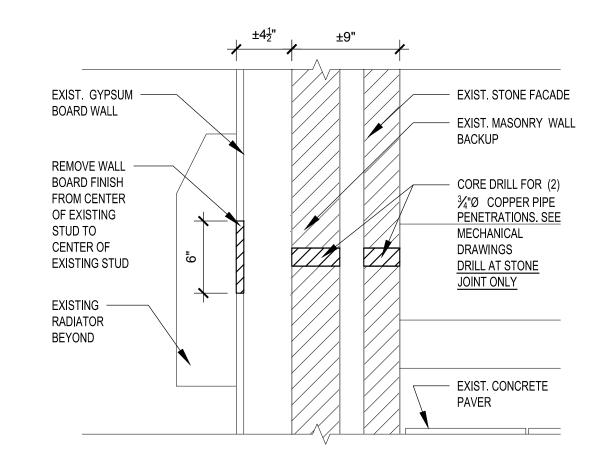
LOUVER PANEL SECTION DETAIL A501.00 Scale: 1 1/2" = 1'-0"



WALL PATCH AT CONDENSATE DRAIN A-101.00 Scale: 1 1/2" = 1'-0"







WALL REMOVAL AT CONDENSATE DRAIN

A101.00 Scale: 1 1/2" = 1'-0"



515 Broadway, Albany, New York 12207 6047 Transit Road, Suite 103, East Amherst, NY 28 Liberty Street, FI 55, New York 10005 3495 Winton Place, Bldg. C, Suite 1 Rochester, New Yor

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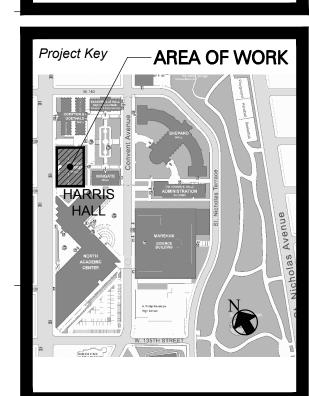
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09.24.2024

DASNY Project No:
3822309999 / CR163



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Drawing Number Drawing

NEW YORK CITY BUILDING DEPARTMENT NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE NOVEMBER 7, 2022 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.
- A TEST WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF THE MECHANICAL SYSTEM. THE TEST WILL SHOW COMPLIANCE WITH 2022 BUILDING CODE REQUIREMENTS AS OUTLINED IN SECTION [BC 1704].
- THE LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORT OF TEST THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS. 4. SPECIAL INSPECTIONS:
- 4.1. ALL MECHANICAL SYSTEMS, EQUIPMENT AND MATERIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION [BC 1705.21] OF THE 2022 NYC BUILDING CODE.
- 4.2. FIRE RESISTANT PENETRATIONS AND JOINTS SHALL BE PERFORMED IN
- ACCORDANCE WITH SECTION [BC 1705.17] OF THE 2022 NYC BUILDING CODE. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE
- 6. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.

MECHANICAL NOTES

1. GENERAL

- A. PRIOR TO PROPOSAL SUBMISSION, THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.
- B. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- C. REMOVAL WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING REPAIRING, ADAPTING AND OTHER MECHANICAL WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF REMOVAL WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
- 2. SCOPE OF WORK.

#\ REVISION TRIANGLE

- A. ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED INSTALLED MECHANICAL (AS WELL AS ELECTRICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTED USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
- B. REMOVE ALL EXISTING PIPING & EQUIPMENT AS REQUIRED TO ACCOMMODATE INSTALLED HVAC EQUIPMENT.
- C. FURNISH & INSTALL ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY REMOVAL WORK.
- D. ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
- ALL REMOVAL AND INSTALLATION WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE LATEST CONSTRUCTION CODES AND BUILDING DESIGN GUIDELINES/STANDARDS IF APPLICABLE

GENERAL IDENTIFICATION DETAIL NUMBER ON SHEET AIR OUTLET X(250) AIR QUANTITY X ----- NUMBER OF SHEET WHERE DETAIL APPEARS — EQUIPMENT TYPE _ EQUIPMENT <u>EF-A1</u> → EQUIPMENT NUMBER — SECTION MARK - BUILDING DESIGNATOR $oldsymbol{ol}oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol{ol{ol}}}}}}}}}}}}}}$ LOCATION ◆ POINT OF CONNECTION BETWEEN — EXISTING DUCTWORK/EQUIPMENT/ INSTALLED AND EXISTING PIPING TO REMAIN POINT OF REMOVAL — — DUCTWORK/EQUIPMENT/PIPING TO BE REMOVED (E) EXISTING DUCTWORK/ EQUIPMENT/PIPING DESIGNATION — DUCTWORK/EQUIPMENT/PIPING TO BE INSTALLED # KEYED NOTE

NOTE: REFER TO FLOOR PLANS AND DETAILS FOR EXTENT OF ABBREVIATIONS USED.

	MECHANICAL DRAWING INDEX
NAME	SHEET
M-001.00	MECHANICAL ABBREVIATIONS, NOTES, LEGEND, & SYMBOLS
M-002.00	MECHANICAL 2ND & 3RD FLOOR KEY PLANS
M-101.00	MECHANICAL 2ND & 3RD FLOOR INSTALLATION PART PLANS
M-501.00	MECHANICAL DETAILS
M-601.00	MECHANICAL SCHEDULES

ABBREVIATI			1-WAY - SUPPLY DIFFUSER
ABV AC	ABOVE AIR CONDITIONING UNIT		
ADD	ACCESS DOOR ADDENDUM		2-WAY A - SUPPLY DIFFUSER
AFF	ABOVE FINISHED FLOOR		2-WAY B - SUPPLY DIFFUSER
ALT AP	ALTERNATE ACCESS PANEL		
ARCH ATC	ARCHITECT/ARCHITECTURAL AUTOMATIC TEMPERATURE CONTROL		3-WAY - SUPPLY DIFFUSER
AUTO	AUTOMATIC BUILDING AUTOMATION SYSTEM		4-WAY - SUPPLY DIFFUSER
BFF	BELOW FINISHED FLOOR		4-WAT - 3011 ET BILL OSEK
BLW BTU	BELOW BRITISH THERMAL UNITS		RETURN GRILLE
BTUH CFM	BRITISH THERMAL UNITS PER HOUR CUBIC FEET PER MINUTE		EVITATIOT OBJET
CLG	CEILING		EXHAUST GRILLE
CONN CP	CONNECTION CONDENSATE PUMP		LINEAR SLOT DIFFUSER/GRILLE
DA DB	DEAERATOR DRY BULB		
DD	DUCT DETECTOR	→	SUPPLY AIR FLOW ARROW
DDC DEG	DIRECT DIGITAL CONTROL DEGREE	◆ -}-	RETURN AIR FLOW ARROW
DIA DN	DIAMETER DOWN		TALIBRATIAN TEST FUNDAMENT
	EXISTING TO REMAIN		SUPPLY AIR DUCT - SECTION
EAT ELEV	ENTERING AIR TEMPERATURE ELEVATION		DETUDNIAID BUOT, OF OTION
SP	EXTERNAL STATIC PRESSURE		RETURN AIR DUCT - SECTION
F/SD FA	FIRE/SMOKE DAMPER FIRE ALARM		EXHAUST AIR DUCT - SECTION
-D -M	FIRE DAMPER, FLOOR DRAIN FLOW METER		
-PM	FEET PER MINUTE		ELBOW TURNED UP
GC GPM	GENERAL CONTRACTOR GALLONS PER MINUTE	5.31	ELBOW TURNED DOWN
HP HTG	HORSEPOWER, HEAT PUMP HEATING		ELBOW TOTALES BOWN
HVAC	HEATING/VENTILATING/AIR CONDITIONING		TEE TURNED UP
1 <u>Z</u> N	HERTZ (CYCLES PER SECOND) INCH	TNAT	TEE TURNER ROWN
PS (W	IRON PIPE SIZE KILOWATT		TEE TURNED DOWN
_AT	LEAVING AIR TEMPERATURE	 	MANUAL DAMPER - SINGLE OR OPPOSED BLADE TYPE
_B/HR _VR	POUNDS PER HOUR LOUVER	 	
<u>ИА</u> ИВН	MIXED AIR ONE THOUSAND BTU PER HOUR		BACKDRAFT DAMPER
ИD	MOTORIZED DAMPER	M	MOTOR ACTUATED DAMPER
<u>ИЕСН</u> ИFR	MECHANICAL MANUFACTURER		MOTOR METONICE BANN ER
MIN MISC	MINIMUM MISCELLANEOUS	− ⊲ FD	FIRE DAMPER (VERTICAL)
N.T.S.	NOT TO SCALE	14=:0=	COMPINATION FIRE (CMOVE DAMPER (VERTICAL)
VIC VIC	NOISE CRITERIA/NORMALLY CLOSED NOT IN CONTRACT	-√√ F/SD	COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
NO.	NORMALLY OPEN NUMBER	—O SD	SMOKE DAMPER (VERTICAL)
D/A	OUTSIDE AIR		· · · ·
PD PD	PUMP PRESSURE DROP	©	DUCT DETECTOR
PH PROP	PHASE PROPELLER	(T)	THEDMOSTAT/TEMPERATURE SENSOR
PSIA	POUNDS PER SQUARE INCH (ABSOLUTE)		THERMOSTAT/TEMPERATURE SENSOR
PSIG PWR	POUNDS PER SQUARE INCH (GAGE) POWER		CEILING DIFFUSER - BOTTOM DUCT CONNECTION
R/A	RETURN AIR		
RL/A RM	RELIEF AIR ROOM		STANDARD BRANCH TAKEOFF
RPM S/A	REVOLUTIONS PER MINUTE SUPPLY AIR		TRANSITION ECCENTRIC
SF	SUPPLY FAN, SQUARE FOOT		TRANSITION - ECCENTRIC
<u>SG</u> SP	SUPPLY GRILLE STATIC PRESSURE		TRANSITION - CONCENTRIC
SR	SIDEWALL REGISTER		
TEMP	THERMOSTAT TEMPERATURE	<u>UP</u>	OFFSET IN DUCTWORK - UP
G H	TRANSFER GRILLE THERMOMETER		OFFSET IN DUCTWORK DN
SP	TOTAL STATIC PRESSURE	<u>DN</u>	OFFSET IN DUCTWORK - DN
<u>TYP</u> JN	TYPICAL UNION	+►	DOOR LOUVER
/D	VOLUME DAMPER		
/SD VB	VARIABLE SPEED DRIVE WET BULB	U ►	DOOR UNDERCUT
VMS	WIRE MESH SCREEN		TURNING VANES - SQUARE ELBOW
		<u> </u>	FUNING VAINES - SQUARE ELBUW
			DUCT ACCESS DOOR TOP/SIDE/BOTTOM

SINGLE LINE	DOUBLE LINE	DESCRIPTION
—ю—		TEE (TURNED UP)
		TEE (TURNED DOWN)
——-		UNION - GROUND JOINT
— ⊅—		REDUCER - CONCENTRIC
<u> </u>		REDUCER - ECCENTRIC
		CAPPED PIPE
		BLIND FLANGE CAP
——————————————————————————————————————		FLANGED UNION
-		ELBOW (90°)
X		ELBOW (45°)
— ю		ELBOW (TURNED UP)
		ELBOW (TURNED DOWN)
,‡,		TEE
——I5I——		BALL VALVE (SIDE/TOP VIEW)
_ _		CHECK VALVE (SIDE/TOP VIEW)
		FLEXIBLE CONNECTOR (ELASTOMERIC OR CORRUGATED METAL HOSE)
— ⊳—		DIRECTION OF FLOW
<u> </u>	-	THERMOMETER
<u>Ф</u>	-	PRESSURE GAGE
 5 		STRAINER (SIDE/TOP VIEW)



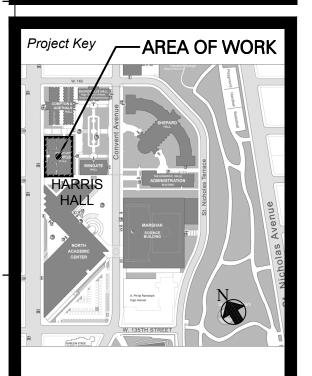
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Project Title

MECHANICAL ABBREVIATIONS, NOTES, LEGEND & SYMBOLS BID SUBMISSION

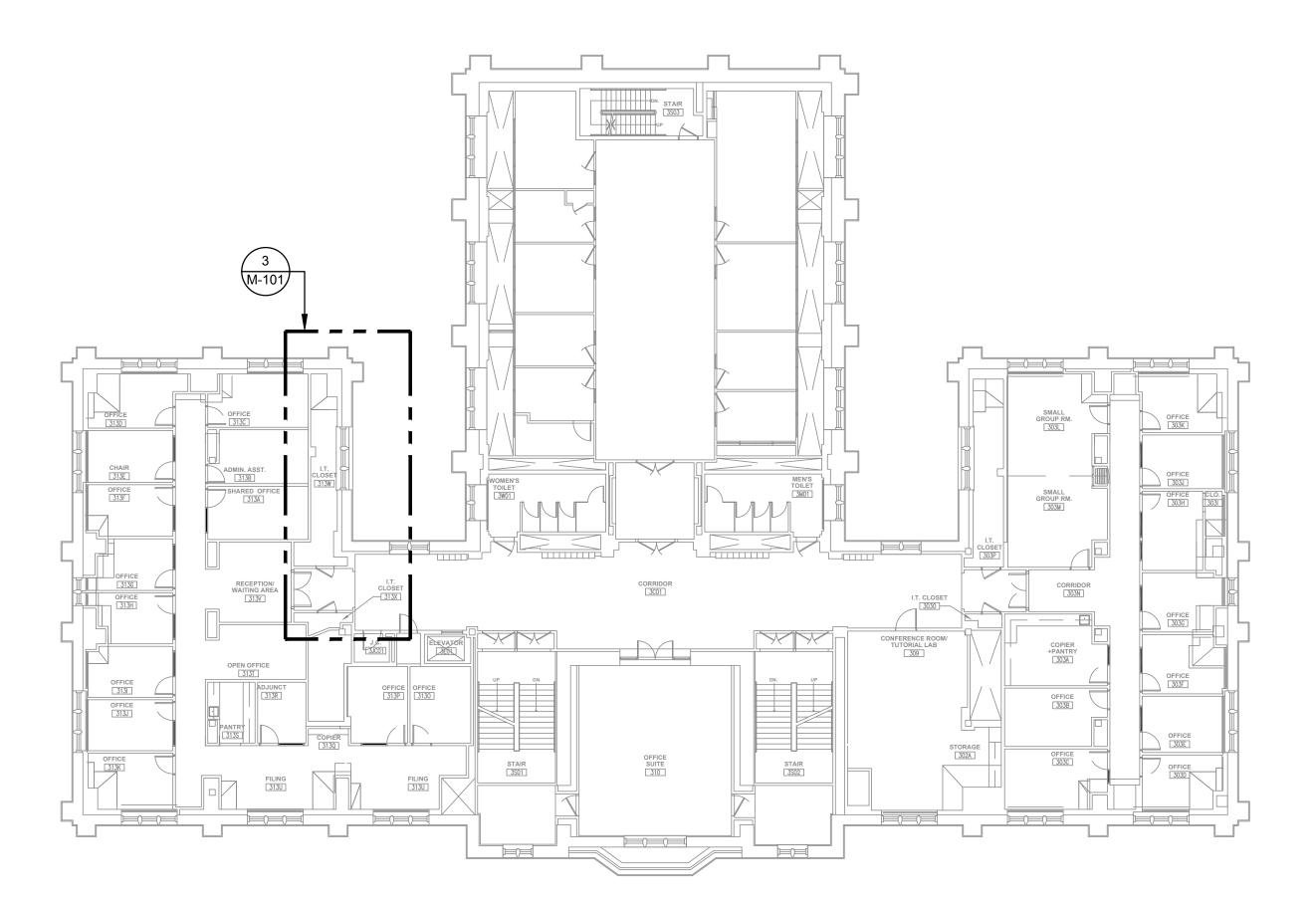


Drawn By:

382230 / CR163 Consultant Project No

1 M-101 M-101 FACULTY FACULTY 205-B

1 2ND FLOOR KEY PLAN M-002 SCALE: NTS



2 3RD FLOOR KEY PLAN
M-002 SCALE: NTS

NOTES:

1. REFER TO DRAWING M-001 FOR MECHANICAL ABBREVIATIONS, LEGEND, NOTES, AND SYMBOLS.



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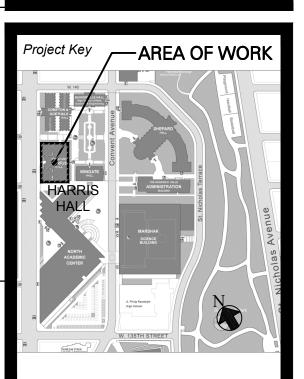
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MECHANICAL 2ND & 3RD FLOOR KEY PLANS

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PS

GENERAL MECHANICAL NOTES:

- 1. ALL WORK SHALL CONFORM TO THE LATEST BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE BUILDING STANDARDS AND MEET WITH BUILDING MANAGEMENT IN ORDER TO BECOME TOTALLY FAMILIAR WITH THE BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN
- APPROVAL FROM THE BUILDING MANAGEMENT. 2. WHEN MECHANICAL WORK IS SUBCONTRACTED IT SHALL BE THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE
- MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL. 3. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR DUCTWORK, AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND COORDINATED WITH THE
- GENERAL CONTRACTOR FOR COORDINATION AMONG ALL TRADES. 4. FURNISH & INSTALL ALL MATERIALS, EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 5. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

- 6. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF DUCT UP- AND
- DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT TRANSITIONS REQUIRED FOR THE FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY COORDINATE ALL DUCT DIMENSIONS BEFORE FABRICATIONS.
- 8. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATELY ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- CERTAIN ITEMS SUCH AS RISERS AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS LOCATIONS OF ALL SUCH ITEMS SHALL BE INDICATED ON SHOP DRAWINGS BY THE INSTALLING CONTRACTOR FOR REVIEW AND APPROVAL DURING THE SHOP DRAWING PROCESS.
- 10. PRIOR TO ANY WORK ASSOCIATED WITH CONDENSATE DRAIN AND ROUTING, CONTRACTOR SHALL WALK THE SITE WITH THE BUILDING FACILITIES ENGINEER AND FIELD VERIFY EXACT PENETRATIONS AND CONNECTIONS FOR DRAINAGE.

KEYED NOTES: (#)

ON PLAN & SCHEDULE.

- 1. FURNISH & INSTALL CEILING-MOUNTED AC UNIT & ALL ASSOCIATED DUCTWORK & CONTROLS.
- FURNISH & INSTALL BACNET MS/TP COMMUNICATION WIRING FROM AC UNIT TO NEW DDC CONTROL PANEL.
- 3. FURNISH & INSTALL OUTSIDE AIR LOUVER & ASSOCIATED DUCTWORK AS SHOWN
- FURNISH & INSTALL RELIEF AIR LOUVER & ASSOCIATED DUCTWORK AS SHOWN ON PLAN & SCHEDULE.
- 5. FURNISH & INSTALL CONDENSATE PUMP IN DRIP PAN FOR AC UNIT.

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MATION AND SHALL BE USED FOR THEIR INTENDED

POSE. ONCE THE INTENDED PURPOSE HAS CEASED, TH CUMENTS SHALL BE DESTROYED IN A SECURE MANNER.

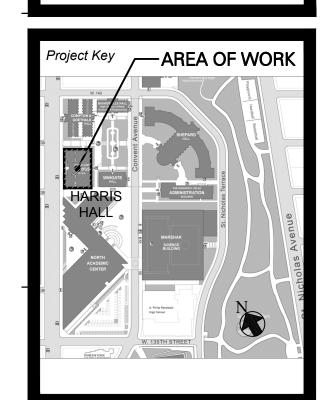
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Drawing Title
MECHANICAL 2ND & 3RD FLOOR INSTALLATION PART PLANS

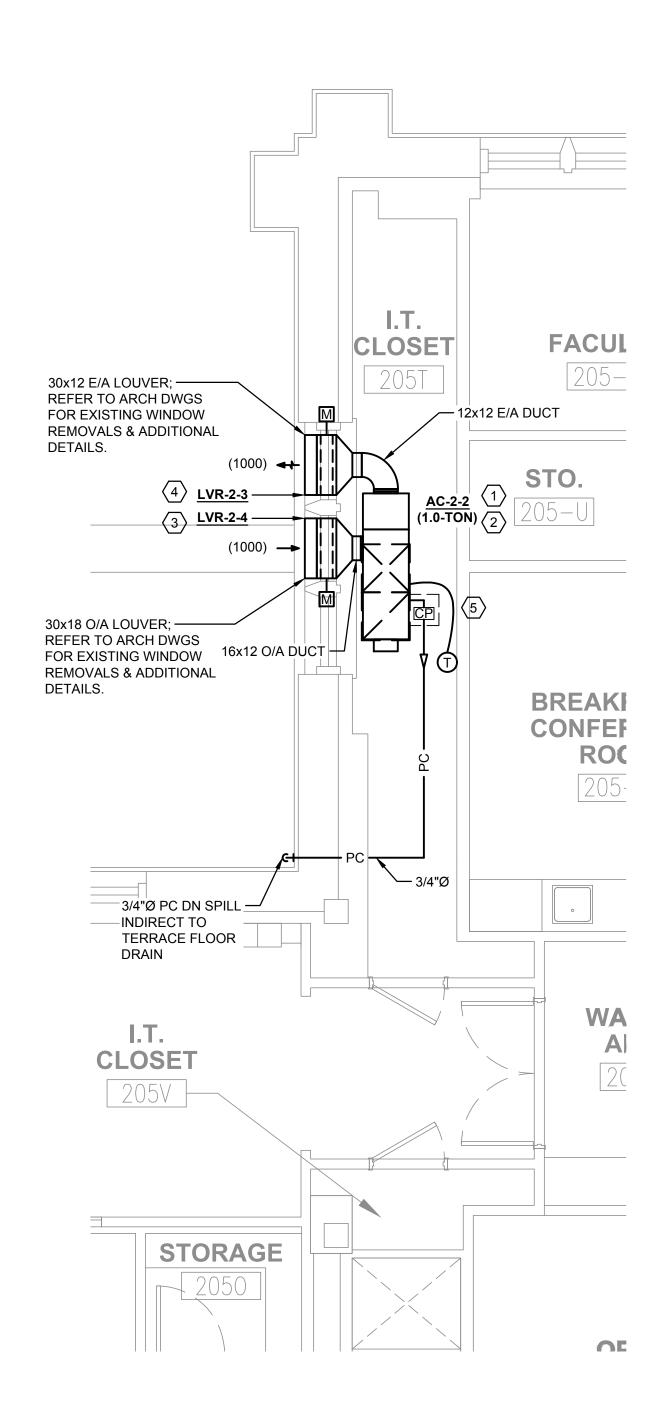
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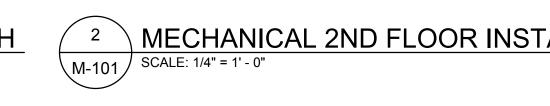
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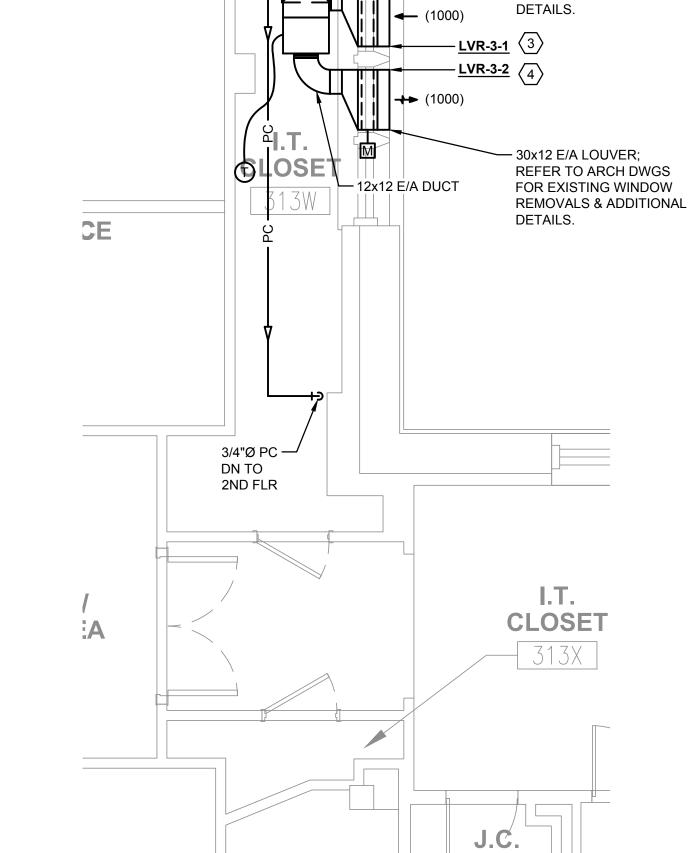


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MECHANICAL 2ND FLOOR INSTALLATION PART PLAN - NORTH





MECHANICAL 3RD FLOOR INSTALLATION PART PLAN - SOUTH

M-101 | SCALE: 1/4" = 1' - 0"

- 30x18 O/A LOUVER;

REFER TO ARCH DWGS

FOR EXISTING WINDOW

REMOVALS & ADDITIONAL

MECHANICAL 2ND FLOOR INSTALLATION PART PLAN - SOUTH M-101 SCALE: 1/4" = 1' - 0"

+ 16x12 O/A DUCT

- 12x12 E/A DUCT

- 30x18 O/A LOUVER;

- 30x12 E/A LOUVER;

REFER TO ARCH DWGS

FOR EXISTING WINDOW REMOVALS & ADDITIONAL

DETAILS.

DETAILS.

3/4"Ø PC DN SPILL INDIRECT TO TERRACE FLOOR

I.T.

CLOSET

212A

DRAIN

J.C.

- LVR-2-2 (4)

REFER TO ARCH DWGS

FOR EXISTING WINDOW

REMOVALS & ADDITIONAL

JP RM

ALL

)R

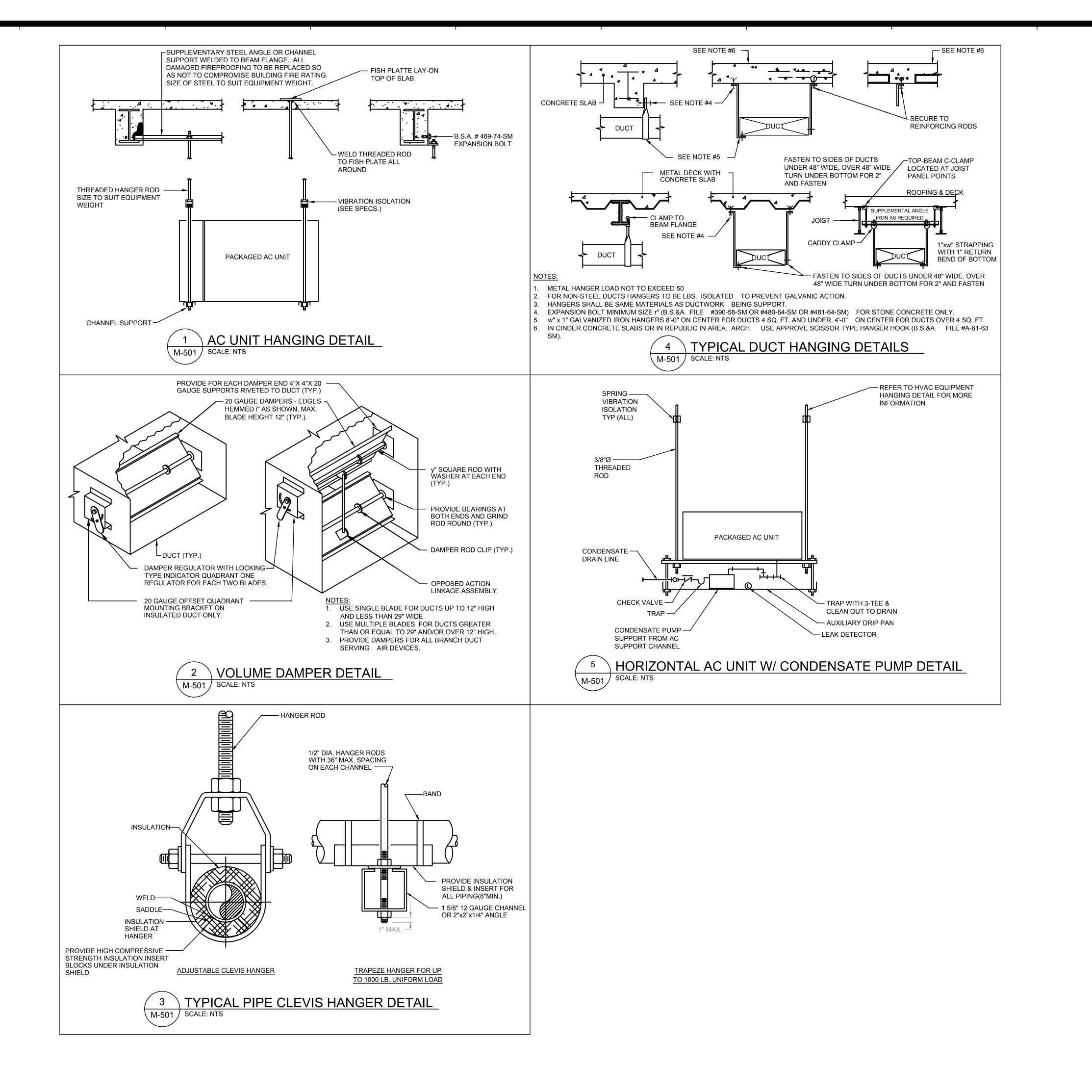
ALL IID DM

JP RM
5A

TYP (ALL)

3/4"Ø —

3/4"Ø PC — UP TO <u>AC-3-1</u>



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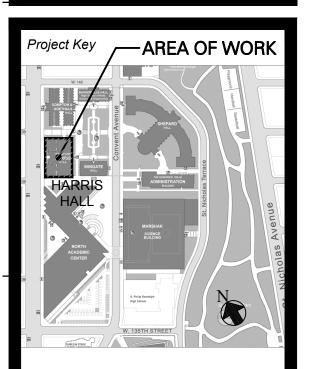
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Drawing Title

MECHANICAL DETAILS

Phase
BID SUBMISSION

Partners | Seed | S. Simpellure | L. Dodon



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MW

M-501.00

	AIR-COOLED PACKAGED AC UNIT SCHEDULE																												
				TOTAL	TOTAL	EVAPORATOR					AIR-COOLED CONDENSER COMPRESSOR				ELECTRICAL														
UNIT TAG	LOCATION	SERVICE	NOMINAL	COOLING	SENSIBLE COOLING	EAT DB/WB	TOTAL SUPPLY	TOTAL ESP		МОТ	OR		TOTAL	TOTAL		MOTOR									WEIGHT	DIMENSION	MANUFACTUER	MODEL#	COMMENTS
		5252	TONS	CAPACITY (MBH)	CAPACITY (MBH)	(F)	AIRFLOW (CFM)	(IN W.C.)	QTY	DIRECT DRIVE	HP	ECM	AIRFLOW (CFM)	ESP (IN W.C.)	QTY	DIRECT DRIVE	HP	TYPE	QTY	HP	V/PH/HZ	FLA	MCA	MOCP	(LBS)	(L"XW"xH")			
AC-2-1	IT CLOSET 216	IT CLOSET 216	1.0	13.9	10.2	80.0/67.0	500	0.30	1.0	YES	1/4	YES	1000	0.3	1.0	YES	1/2	SCROLL	1.0	1.25	208/1/60	15.8	18.2	25	335	73x23x21	ABOVEAIR	SCA-012	SEE BELOW
AC-2-2	IT CLOSET 205T	IT CLOSET 205T	1.0	13.9	10.2	80.0/67.0	500	0.30	1.0	YES	1/4	YES	1000	0.3	1.0	YES	1/2	SCROLL	1.0	1.25	208/1/60	15.8	18.2	25	335	73x23x21	ABOVEAIR	SCA-012	SEE BELOW
AC-3-1	IT CLOSET 313W	IT CLOSET 313W	1.0	13.9	10.2	80.0/67.0	500	0.30	1.0	YES	1/4	YES	1000	0.3	1.0	YES	1/2	SCROLL	1.0	1.25	208/1/60	15.8	18.2	25	335	73x23x21	ABOVEAIR	SCA-012	SEE BELOW

AC UNIT SCHEDULE NOTES (TYPICAL U.O.N.):

- 1. FURNISH SINGLE-POINT POWER CONNECTION WITH FACTORY-MOUNTED & WIRED CONTROL PANEL WITH DDC CONTROLLER WITH BACNET MS/TP COMMUNICATION PROTOCOL. (MODEL #: MC-2000)
- 2. FURNISH & INSTALL SOUND ATTENUATION PACKAGE.
- 3. FURNISH 120V/1/60 CONDENSATE PUMP W/ STAINLESS STEEL DRIP PAN.
- 4. FURNISH & INSTALL SIDE MOUNTED MAIN ELECTRIC BOX.

	LOUVER SCHEDULE														
UNIT TAG	LOCATION	SERVICE	MATERIAL	AIRFLOW (CFM)	LOUVER DEPTH (IN)	FREE AREA (%)	VELOCITY (FPM)	DIMENSIONS (W"xH")	MANUFACTUER	MODEL#	COMMENTS				
LVR-2-1	IT CLOSET 216	OUTSIDE AIR LOUVER	ALUMINIUM	1000	6	47	570	30x18	RUSKIN	ELF6375DX	SEE BELOW				
LVR-2-2	IT CLOSET 216	EXHAUST AIR LOUVER	ALUMINIUM	1000	6	40	1000	30x12	RUSKIN	ELF6375DX	SEE BELOW				
LVR-2-3	IT CLOSET 205T	EXHAUST AIR LOUVER	ALUMINIUM	1000	6	40	1000	30x12	RUSKIN	ELF6375DX	SEE BELOW				
LVR-2-4	IT CLOSET 205T	OUTSIDE AIR LOUVER	ALUMINIUM	1000	6	47	570	30x18	RUSKIN	ELF6375DX	SEE BELOW				
LVR-3-1	IT CLOSET 313W	OUTSIDE AIR LOUVER	ALUMINIUM	1000	6	47	570	30x18	RUSKIN	ELF6375DX	SEE BELOW				
LVR-3-2	IT CLOSET 313W	EXHAUST AIR LOUVER	ALUMINIUM	1000	6	40	1000	30x12	RUSKIN	ELF6375DX	SEE BELOW				
. O. I. (ED. OO)	JEDULE NOTEO (TVD				-	-		•	•		-				

LOUVER SCHEDULE NOTES (TYP. U.O.N.):

- CONTRACTOR SHALL FIELD VERIFY FINAL LOUVER DEPTH PRIOR TO PROCUREMENT.
- 2. LOUVER SHALL BE DRAINABLE, EPOXY COATED.
- 3. FURNISH & INSTALL BIRD & INSECT SCREEN.

PIPE MATERIAL SCHEDULE					
SERVICE	PIPE SIZE	MATERIAL	WEIGHT	STANDARD	JOINT TYPE
COLD CONDENSATE DRAINS, MISCELLANEOUS DRAINS & OVERFLOWS	2" & BELOW	HARD COPPER	TYPE ACR OR TYPE 'L'	ASTM B280 OR ASTM A88	BRAZED
PIPE MATERIAL SCHEDULE NOTES:					

. REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION

. REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION

PIPE FITTING SCHEDULE							
PIPE MATERIAL	PIPE SIZE	JOINT TYPE	FITTING MATERIAL	FITTING CLASS			
COPPER TUBING (TYPE ACR)	PRAZED I WISSELLER I STANDARD						
PIPE FITTING SCHEDULE NOTES:							

IFORMATION AND SHALL BE USED FOR THEIR INTENDED JRPOSE. ONCE THE INTENDED PURPOSE HAS CEASED, THE OCUMENTS SHALL BE DESTROYED IN A SECURE MANNER. IT IS A VIOLATION OF STATE EDUCATION LAW FOR ANY PERSON UNLESS UNDER THE DIRECTION OF A LICENSED ARCHITECT/ENGINEER TO ALTER THIS DOCUMENT IN ANYWAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATIONS, DATE AND ARCHITECT'S/ENGINEER'S SIGNATURE. COPYRIGHT © 2022

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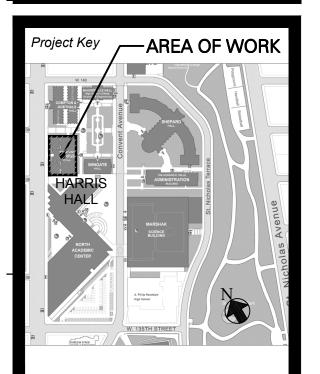
DESIGN ARCHITECT

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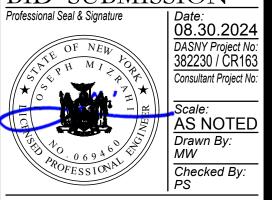
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Drawing Title

MECHANICAL SCHEDULES

Phase
BID SUBMISSION
Professional Seal & Signature
Date:
08.30, 20



GENERAL IDENTIFICATION				
X DETAIL NUMBER ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS	SECTION MARK SECTION DRAWING LOCATION			
(E) EXISTING CONDUIT/EQUIPMENT DESIGNATION (#) KEYED NOTE AREVISION TRIANGLE	 EXISTING CONDUIT/EQUIPMENT TO REMAIN CONDUIT/EQUIPMENT TO BE REMOVED CONDUIT/EQUIPMENT TO BE INSTALLED 			
NOTE: REFER TO FLOOR PLANS AND DETAILS FOR EXTENT OF ABBREVIATIONS USED.				

APPLICABLE CODES

- NEW YORK CITY CONSTRUCTION CODES (2022)
- NEW YORK CITY ENERGY CONSERVATION CODE (2020)
- NEW YORK CITY ELECTRICAL CODE (2011)
- LOCAL CODES AND ORDINANCES WHERE APPLICABLE
- UL UNDERWRITERS LABORATORIES

ELECTRICAL DRAWING INDEV

	ELECTRICAL DRAWING INDEX
NAME	SHEET
E-001.00	ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS & DRAWING INDEX
E-002.00	2ND AND 3RD FLOOR KEY PLANS
E-101.00	ELECTRICAL 2ND FLOOR SOUTH PART PLANS - REMOVALS & INSTALLATIONS
E-102.00	ELECTRICAL 2ND FLOOR NORTH PART PLANS - INSTALLATIONS
E-103.00	ELECTRICAL 3RD FLOOR SOUTH PART PLANS - REMOVALS & INSTALLATIONS
E-104.00	ELECTRICAL 3RD FLOOR NORTH PART PLANS - REMOVALS & INSTALLATIONS
E-501.00	ELECTRICAL PANEL SCHEDULES AND DETAILS
E-601.00	PARTIAL RISER DIAGRAMS - REMOVALS & INSTALLATIONS

GENERAL ELECTRICAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE BUILDING STANDARDS AND MEET WITH MANAGEMENT IN ORDER TO BECOME TOTALLY FAMILIAR WITH THE BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE BUILDING MANAGEMENT.
- WHEN ELECTRICAL WORK IS SUBCONTRACTED IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR FURNISHES AND INSTALLS A PARTICULAR ITEM OF THE ELECTRICAL CONTRACT OR WHICH CONTRACTOR FURNISHES AND INSTALLS FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
- ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR DUCTWORK, AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR FOR COORDINATION AMONG ALL TRADES.
- FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- INSTALL ALL ELECTRICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR EXACT LOCATION OF EQUIPMENT AND/OR CONDUIT IS SHOWN. VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING WITH ANY FABRICATION, ORDERING ANY MATERIAL OR PERFORMING ANY WORK. NOTIFY THE ENGINEER OF ANY CONDITIONS OR DIMENSIONS, WHICH WOULD AFFECT THE PERFORMANCE OF WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- LIGHT LINE WORK INDICATES EXISTING ELECTRICAL MATERIALS AND EQUIPMENT TO REMAIN. MATERIALS AND EQUIPMENT, EXISTING OR TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT, PER ALL DRAWINGS OTHER THAN ELECTRICAL DRAWINGS ARE ALSO SHOWN IN LIGHT LINES. HEAVY LINE WORK INDICATES ELECTRICAL MATERIALS AND EQUIPMENT TO BE FURNISHED AND INSTALLED OR EXISTING ELECTRICAL INSTALLATION TO BE MODIFIED, ADJUSTED AND OR REINSTALLED AS SHOWN ON THE CONTRACT DRAWINGS. HEAVY LINE WORK ALSO INDICATES EQUIPMENT SPECIFIED ON ALL DRAWINGS OTHER THAN ELECTRICAL THAT SHALL BE INSTALLED, CONNECTED AND/OR COMMISSIONED PER ELECTRICAL DRAWINGS.
- FURNISH AND INSTALL ALL NECESSARY MATERIAL IN ORDER TO PROVIDE COMPLETE SYSTEMS READY FOR OPERATION, ACCORDING TO CONTRACT DRAWINGS OR SPECIFICATIONS AND APPLICABLE CODES.
- COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS. FURNISH AND INSTALL CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN.
- 10. FURNISH AND INSTALL A GREEN INSULATED EQUIPMENT GROUND CONDUCTOR WITH ALL BRANCH AND FEEDER CIRCUITS. GROUNDING SHALL BE IN STRICT ACCORDANCE WITH NEC ARTICLE 250.
- 11. ALL SINGLE-PHASE BRANCH CIRCUITS (120V AND 277V) SHALL BE FURNISHED AND INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR; SHARED NEUTRALS SHALL NOT BE PERMITTED.
- 12. ALL CLEARANCES SHALL BE MAINTAINED PER NEC, NESC AND UL. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
- 13. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER. IF DISCREPANCIES ARE FOUND NOTIFY THE OWNER PROJECT MANAGER AND THE ENGINEER OF RECORD IN WRITING OF ANY DEVIATIONS OR CONFLICTS WITH THE PROPOSED WORK. DO NOT PROCEED WITH THE WORK UNTIL GIVEN WRITTEN NOTICE TO PROCEED, INDICATING THAT THE DEVIATIONS/CONFLICTS HAVE BEEN RESOLVED.
- PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
- FIELD COORDINATE FINAL MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS. FIELD VERIFY FINAL ELECTRICAL REQUIREMENTS OF MECHANICAL AND PLUMBING EQUIPMENT. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN DESIGN DOCUMENTS AND EQUIPMENT PRIOR TO CONNECTING EQUIPMENT.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS FOR ALL TRADES.
- 17. MATERIALS FURNISHED FOR THIS PROJECT SHALL BE INSTALLED, COMMERCIAL GRADE,
- FREE OF DEFECTS, AND UL APPROVED. 18. IN ADDITION TO SPECIFICS AS MAY BE DEFINED HEREINAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST DAMAGE FROM ANY SOURCE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING ETC.) UNTIL
- FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. 19. ALL DEVICES SHALL BE COORDINATED FOR THE PROPER VOLTAGE, OPERATION, CONTACT RATINGS, COLOR CODING, ETC. ALL WALL BOXES FOR SWITCHES, RECEPTACLES, DEVICES, ETC., SHALL BE INSTALLED FLUSH WITH THE FINISHED WALL SURFACE. COORDINATE WITH ALL TRADES FOR ZATHE FINAL ADJUSTMENT AND
- INSTALLATION TO ALLOW FOR WALL THICKNESS, EXTENSION RINGS, ETC. 20. ALL EQUIPMENT SHALL HAVE ITS MANUFACTURER'S NAMEPLATE SECURELY ATTACHED, GIVING DESIGN AND OPERATING CHARACTERISTICS. NAMEPLATES SHALL NOT BE COVERED OR OBSTRUCTED FROM VIEW.

	RICAL ABBREVIATIONS
ABBREVIATION	DESCRIPTION
IP	1 POLE (2P, 3P, 4P, ETC.)
Α	AMPERE
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
С	CONDUIT
CKT	CIRCUIT
CU	COPPER
DWG	DRAWING
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
G	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR
	CONDITIONING
JB/J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELEC. MANUFACTURER ASSOC.
NTS	NOT TO SCALE
PB	PULL BOX
PH	PHASE
RGS	RIGID GALVANIZED STEEL
SPEC	SPECIFICATION
TYP	TYPICAL
V	VOLT
VA	VOLT-AMPERES
W	WATT
Υ	WYE CONNECTION
@	AT
Δ	DELTA
1	FEET
	FEE

INCHES

PHASE

NUMBER

POWER SYMBOLS **DESCRIPTION** <u>SYMBOL</u> Θ SIMPLEX RECEPTACLE SPLICE BOX SAFETY DISCONNECT SWITCH (NON-FUSED) SAFETY DISCONNECT SWITCH (FUSED) RECESSED PANELBOARD CONDENSATE PUMP

ELECTRICAL SYMBOL DESCRIPTIONS

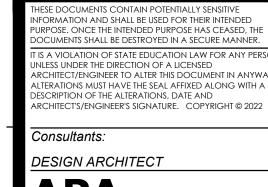


DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d".

1, 3, 5 CIRCUIT DESIGNATION



HOME RUN TO BRANCH CIRCUIT PANELBOARD. P4N-102 PANELBOARD DESIGNATION

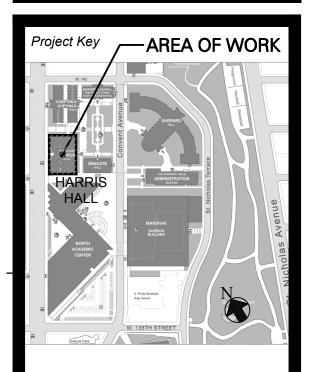


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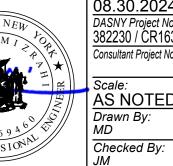
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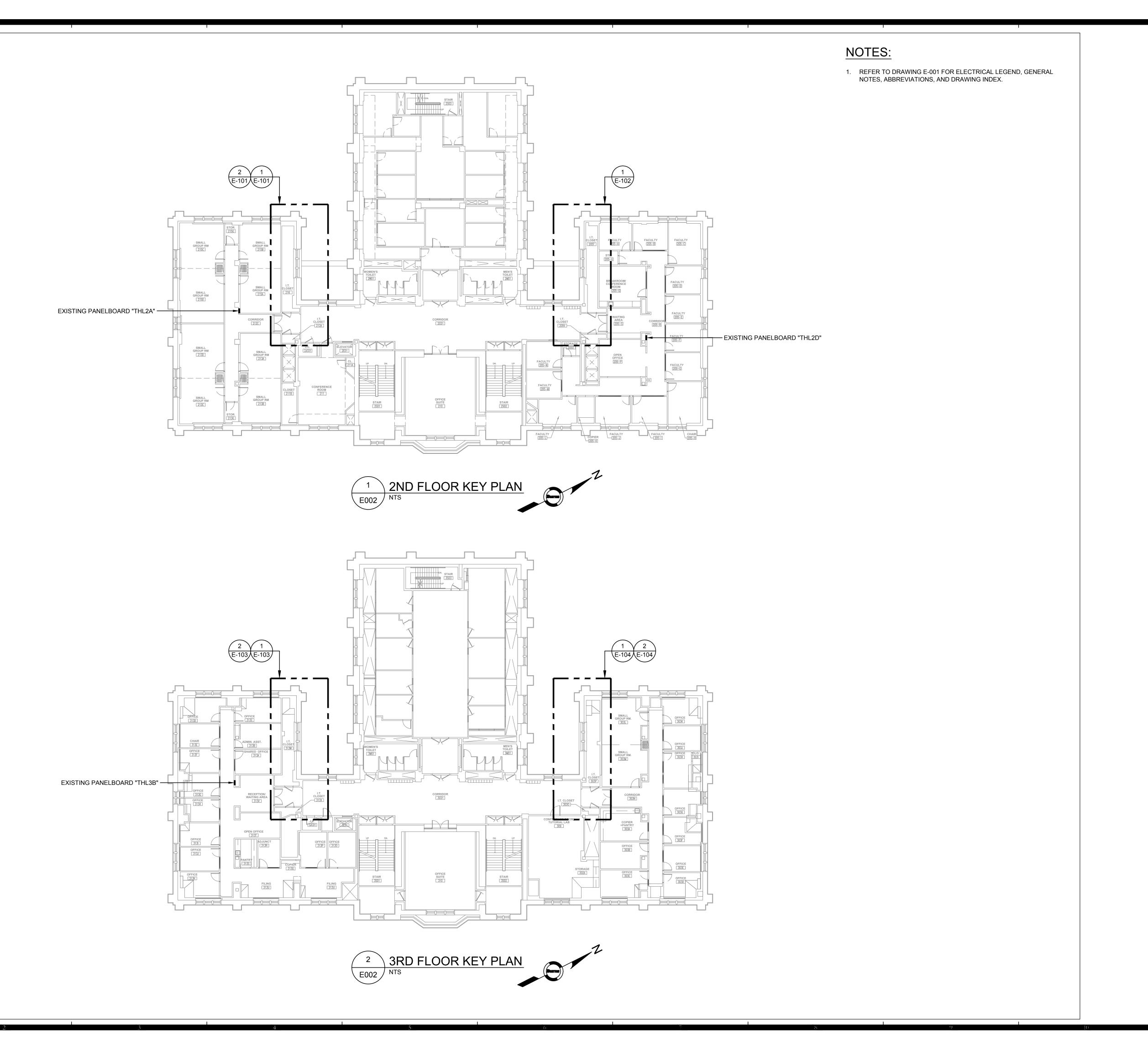
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Drawing Title ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, &

DRAWING INDEX









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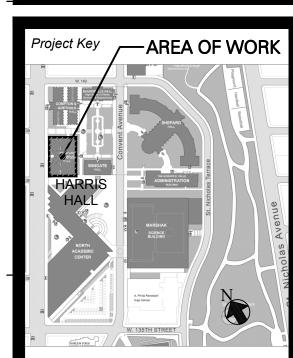
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Drawing Title

2ND AND 3RD FLOOR

REY PLANS

Phase
BID SUBMISSION

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382230 / CR163
Consultant Project No:
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MD
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JM

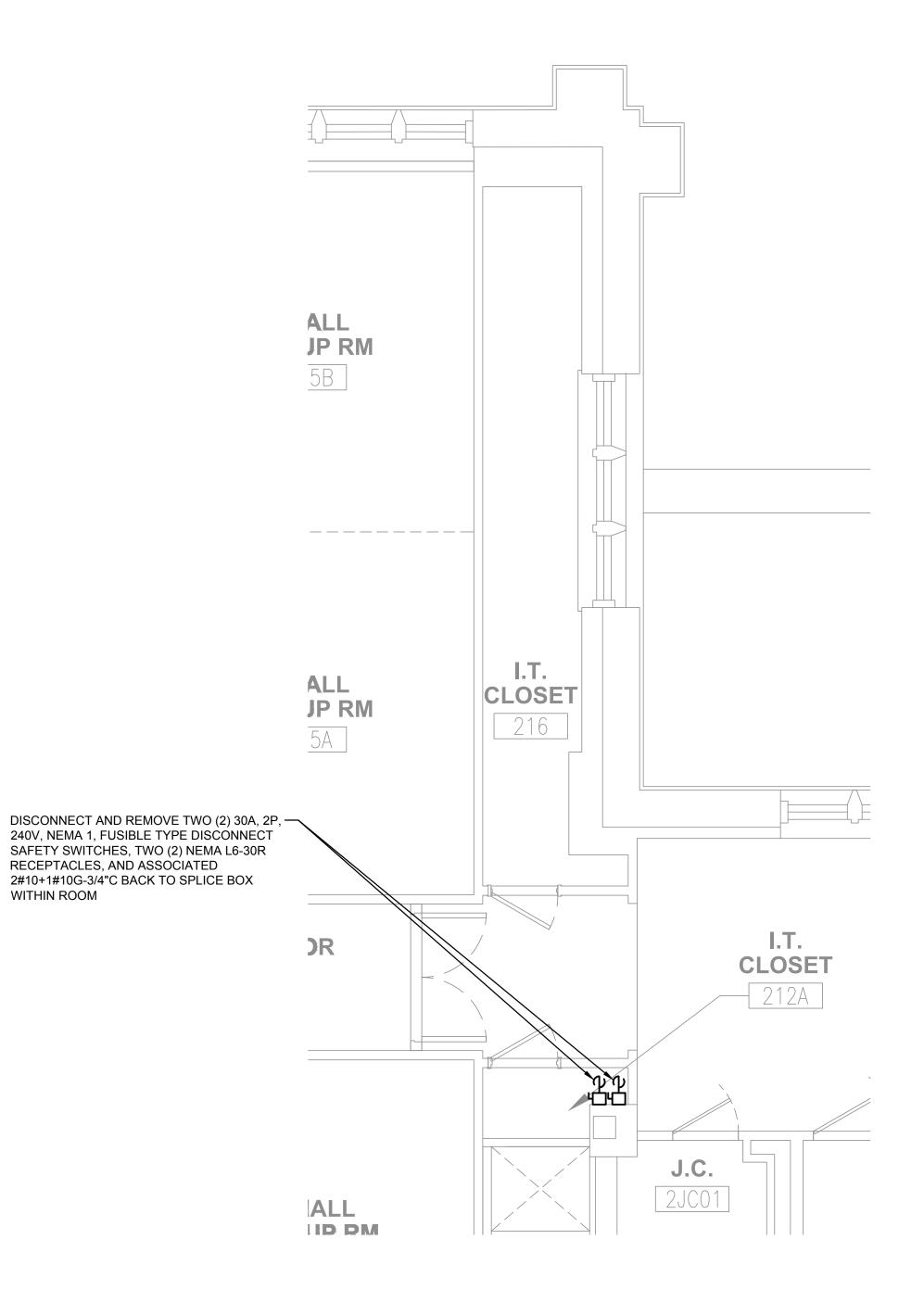
E-002.00

ing Number Drawing

1. RELOCATE PENDANT LIGHT FIXTURE TO ACCOMMODATE NEW CEILING HUNG AC UNIT. SPLICE AND EXTEND LIGHTING BRANCH CIRCUIT WIRING AS REQUIRED. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.

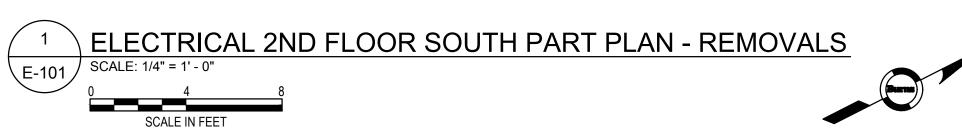
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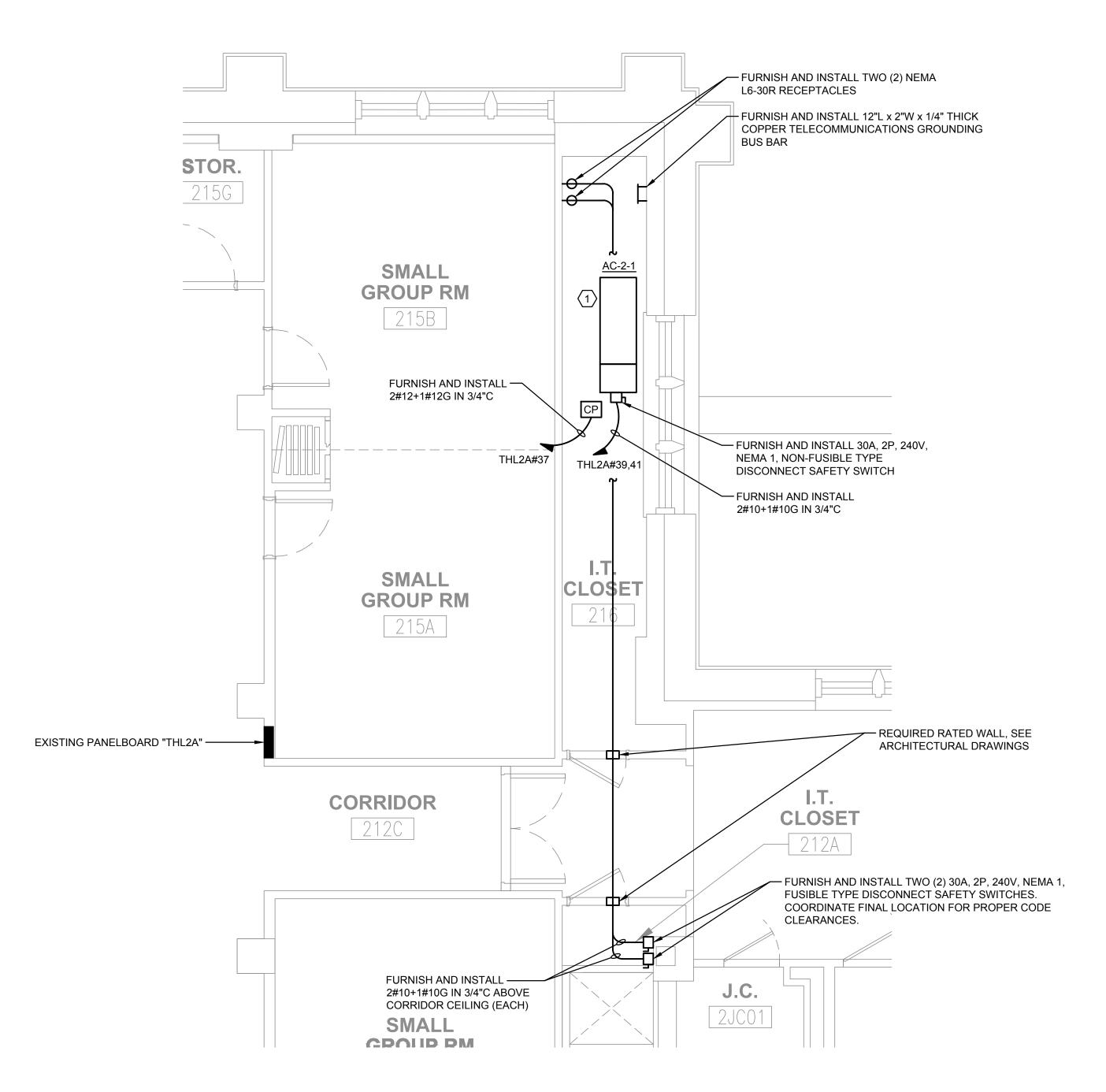
- 1. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX.
- 2. REFER TO DRAWING E-501 FOR ELECTRICAL DETAILS.
- 3. REFER TO DRAWING E-601 FOR PARTIAL RISER DIAGRAMS.
- 4. PRIOR TO COMMENCEMENT OF DEMOLITION, FURNISH AND INSTALL NEW RECEPTACLES AND ASSOCIATED WIRING FOR NEW TELECOMMUNICATION RACK.
- 5. PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND SCHEDULE ALL CORE DRILLS WITH OWNER AND GENERAL CONTRACTOR.



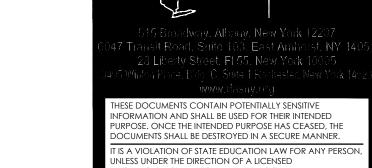
RECEPTACLES, AND ASSOCIATED

WITHIN ROOM









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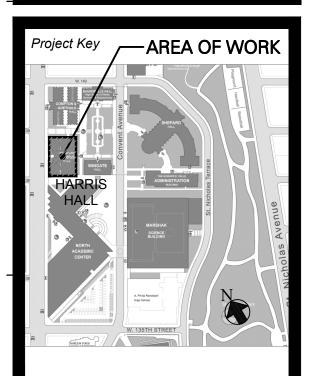
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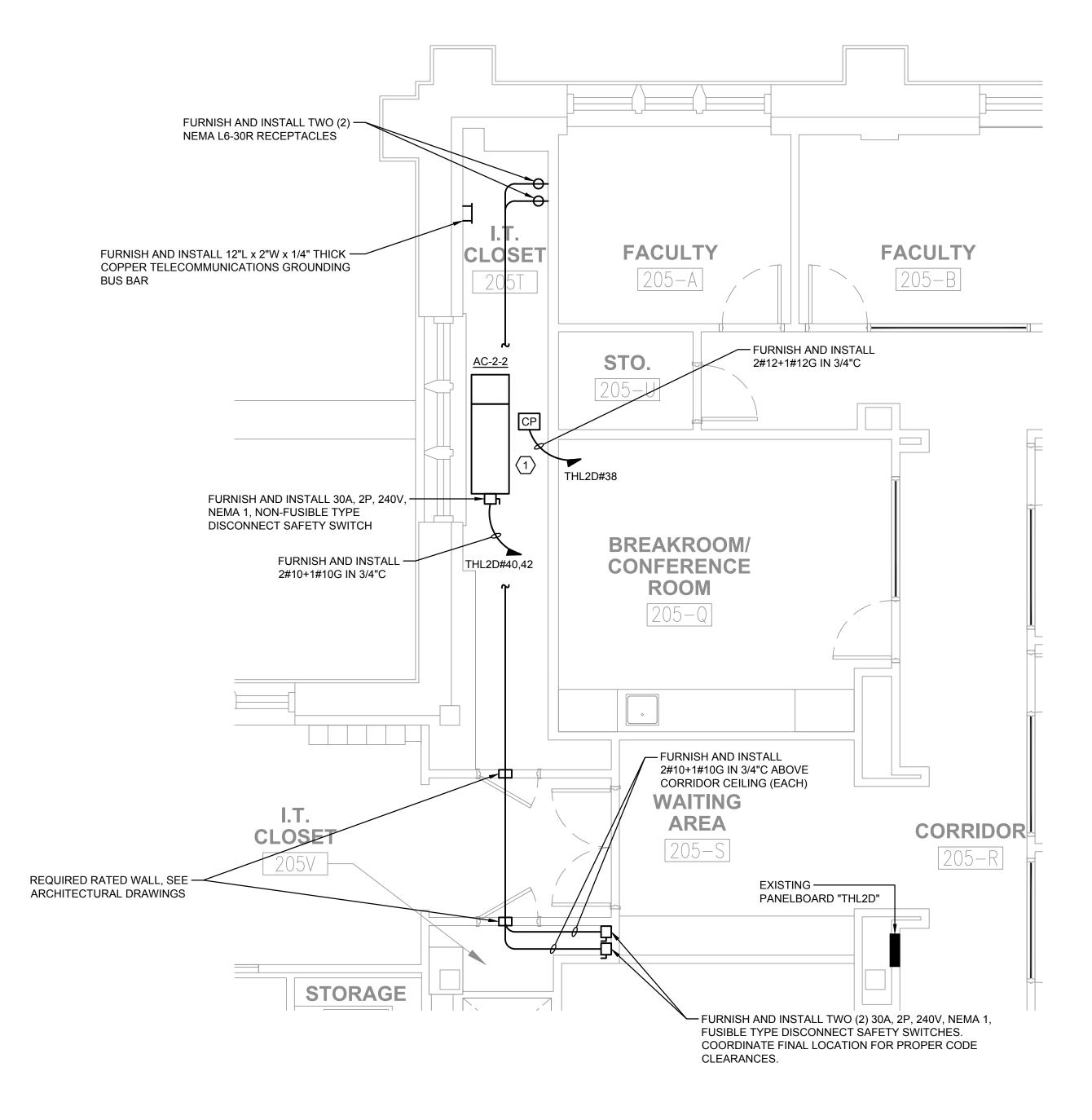


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Drawn By:
MD Checked By: JM

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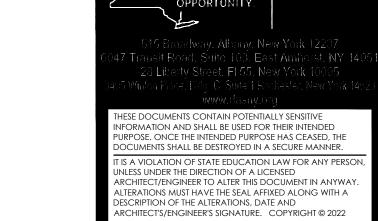
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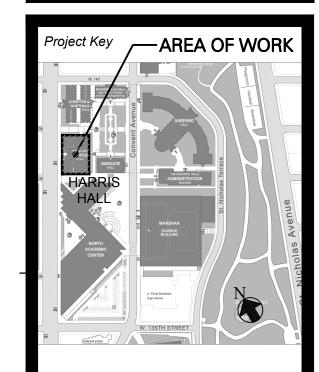
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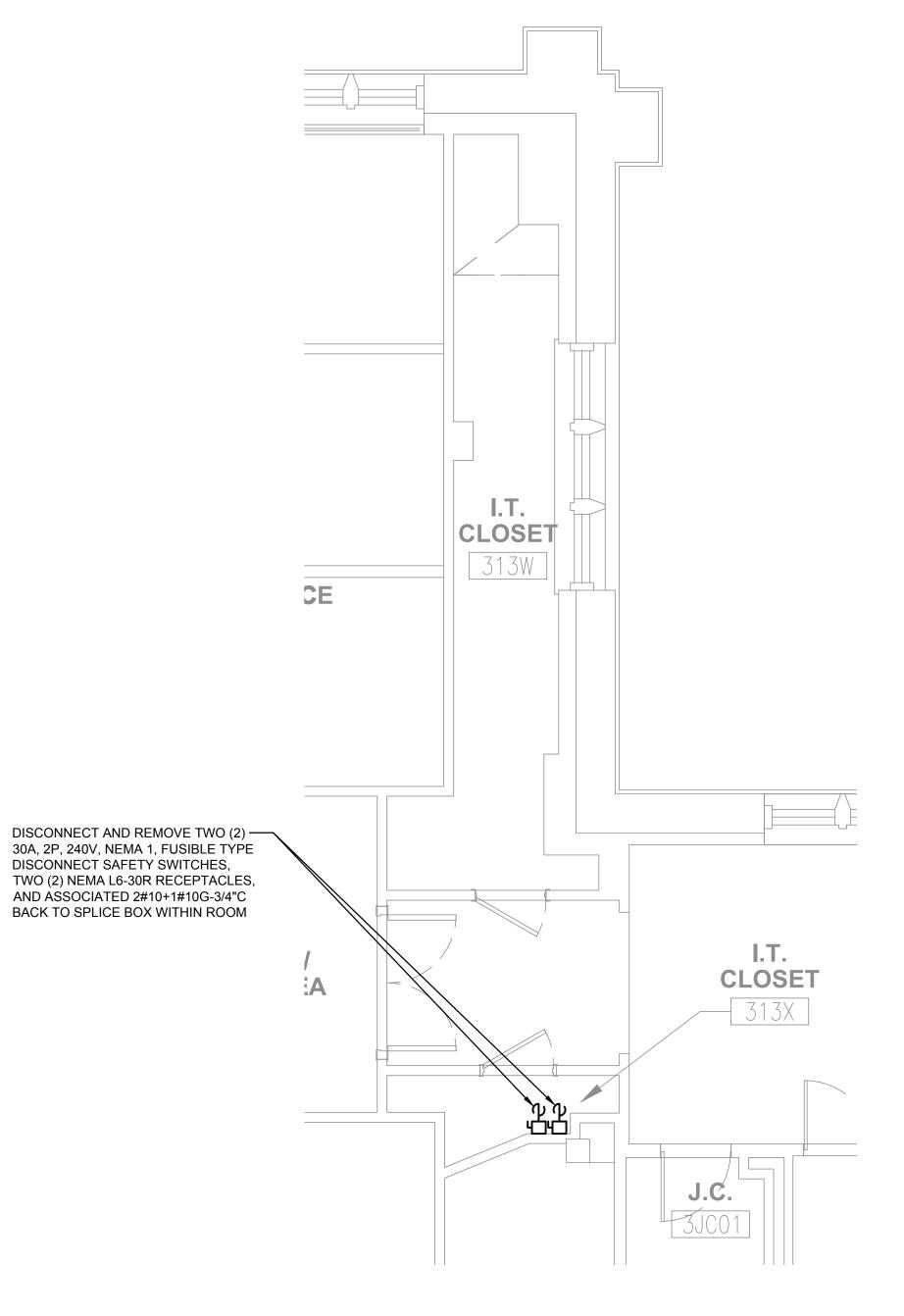


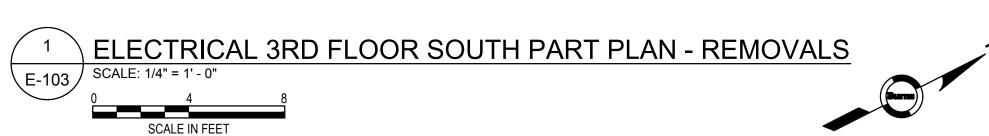


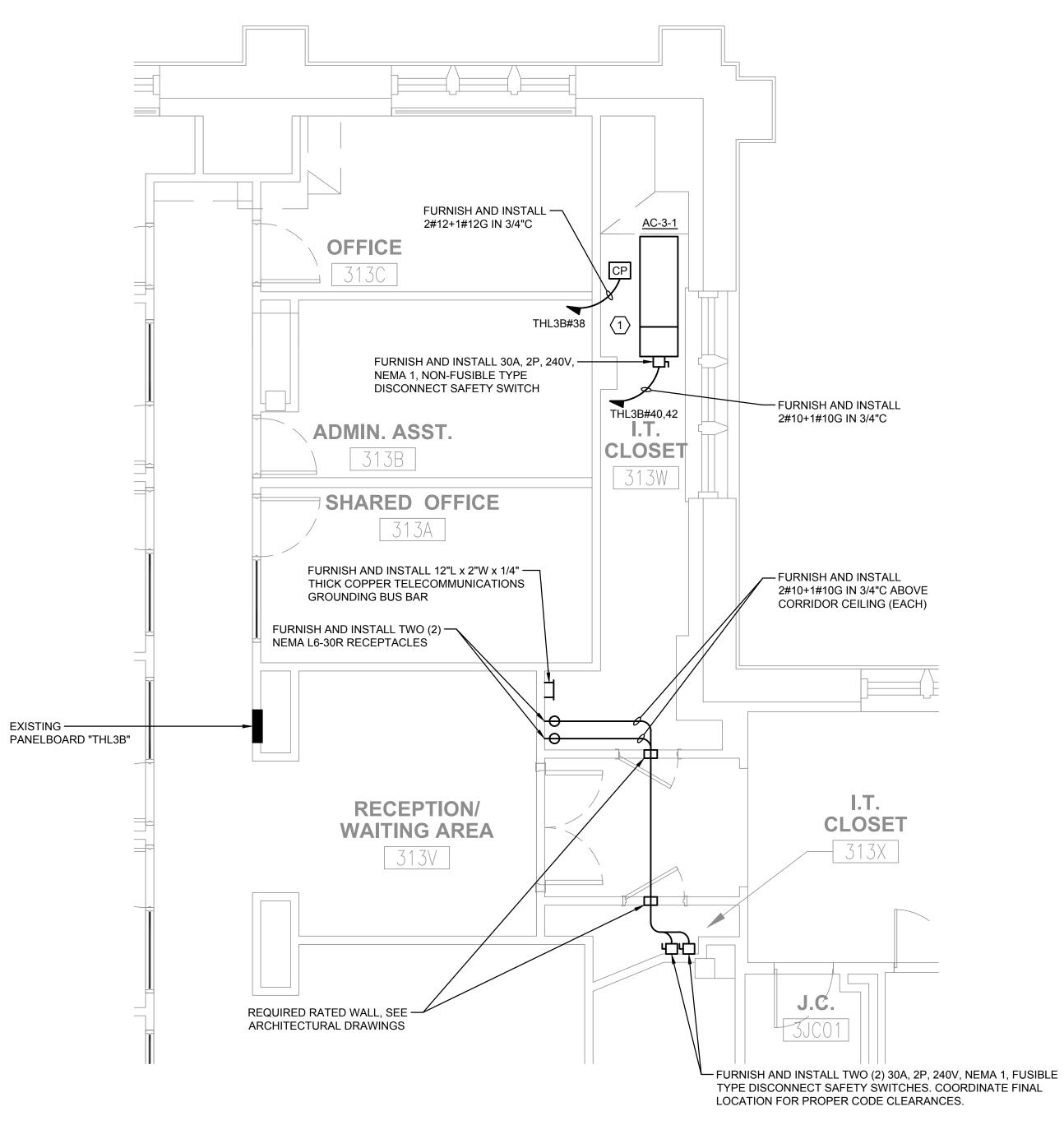
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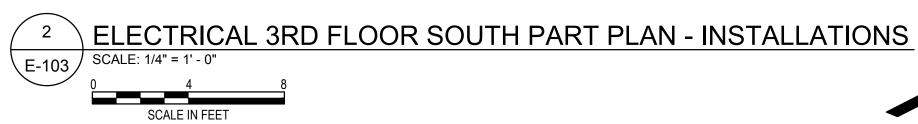
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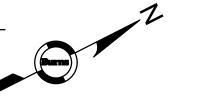
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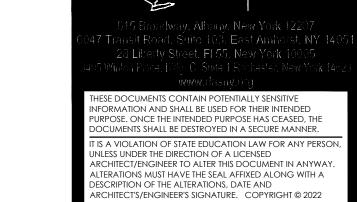












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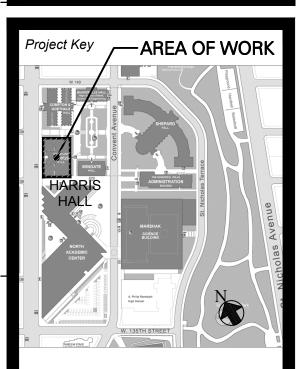
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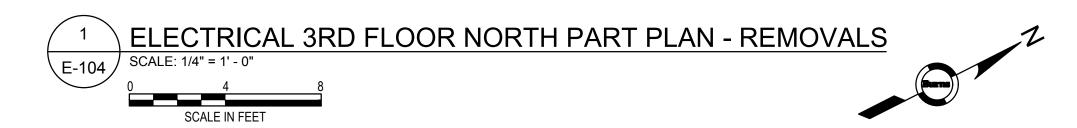
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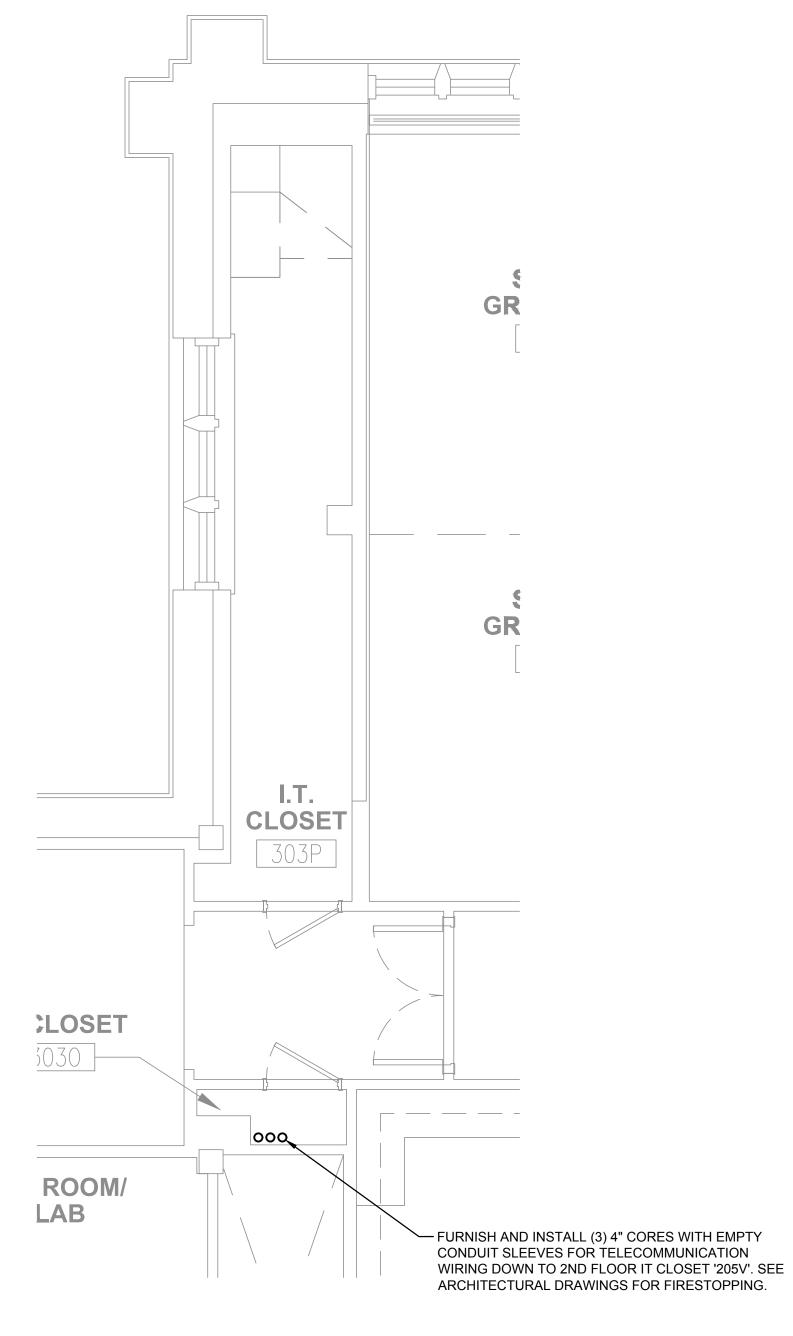
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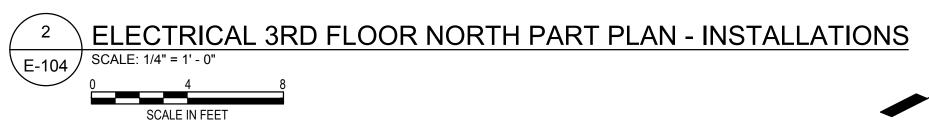
LAB

DISCONNECT AND REMOVE TWO (2) NEMA L6-30R RECEPTACLES



I.T. CLOSET





- 1. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX.
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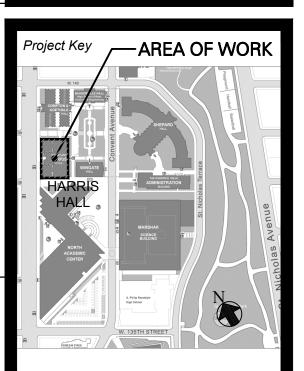
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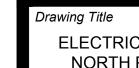
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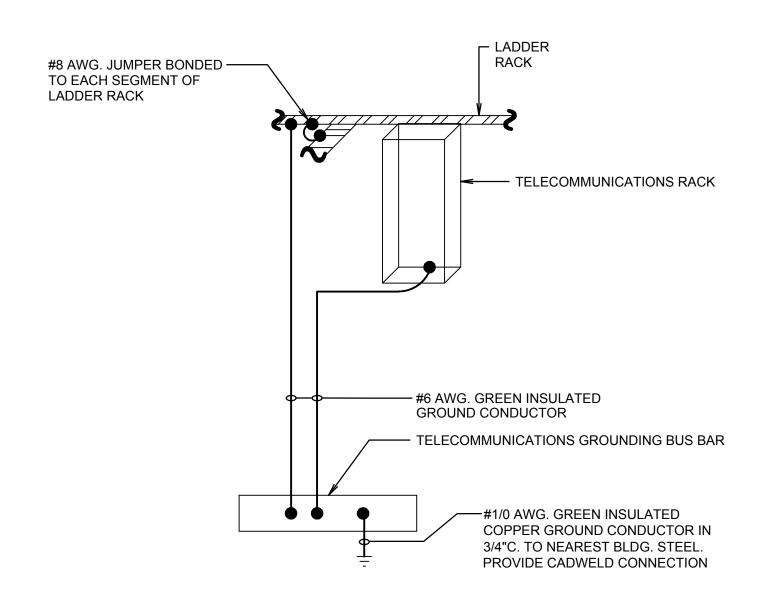


ELECTRICAL 3RD FLOOR NORTH PART PLANS -**REMOVALS & INSTALLATIONS**





Scale:
AS NOTED
Drawn By:
MD



TELECOMMUNICATIONS GROUNDING DETAIL

- 1. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, AND INDEX OF DRAWINGS.
- 2. REFER TO DRAWING E-601 FOR PARTIAL RISER DIAGRAMS.

KEY NOTES:

1. FURNISH AND INSTALL CIRCUIT BREAKER, SIZE AS NOTED AND SUITABLE FOR EXISTING PANEL TYPE, FOR IT CLOSET AC UNIT. COORDINATE ALL PANEL SHUTDOWNS WITH BUILDING MANAGEMENT.



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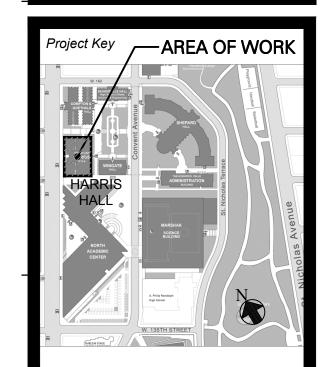
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<u>SOUTH</u>

1. FURNISH AND INSTALL 2#10+1#10 IN 3/4"C TAP CONDUCTORS FROM SPLICE BOX TO SAFETY DISCONNECT SWITCH.

NOTES:

<u>NORTH</u>

PARTIAL RISER DIAGRAM - INSTALLATIONS

E-601 NTS

- 1. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX.
- 2. REFER TO DRAWINGS E-101 THROUGH E-104 FOR BRANCH CIRCUIT
- 3. COORDINATE ALL WORK AND PANEL SHUTDOWNS WITH BUILDING FACILITIES & SCHEDULING (OVERTIME/AFTER HOURS).

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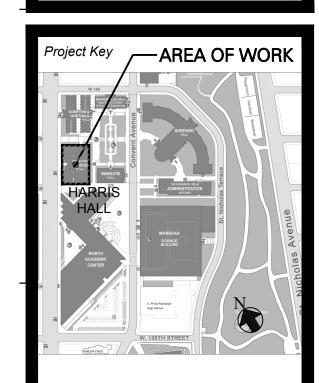
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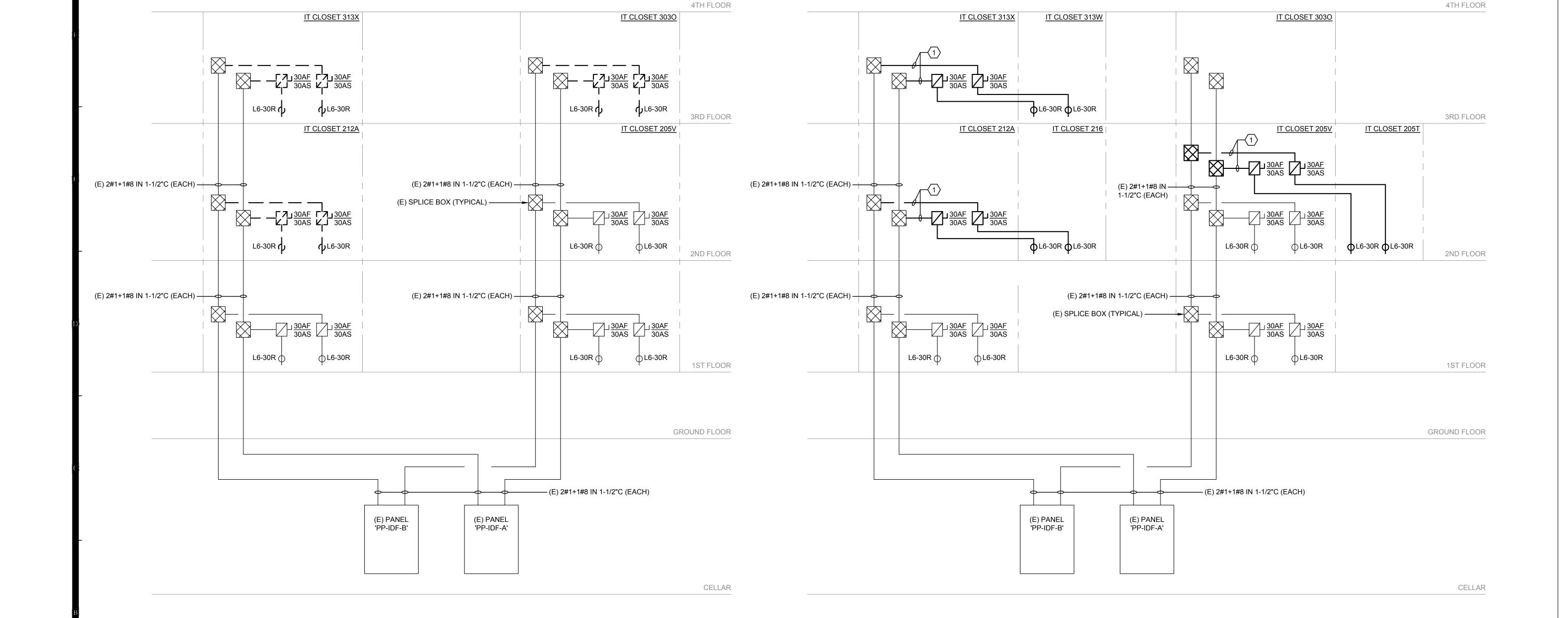
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Drawing Title
PARTIAL RISER DIAGRAMS - REMOVALS & INSTALLATIONS

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<u>NORTH</u>

PARTIAL RISER DIAGRAM - REMOVALS

E-601 NTS

<u>SOUTH</u>

GENERAL NOTES:

- 1. PERFORM WORK IN CONFORMANCE TO THE REQUIREMENTS OF THE SPECIFICATIONS, DRAWINGS, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- DRAWING SCALES AND DIMENSIONS ARE FOR REFERENCE ONLY. LOCATIONS OF EQUIPMENT AND RACEWAYS, UNLESS SPECIFICALLY DIMENSIONED ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, FLOOR PLANS, AND ADJUST ACCORDINGLY. ESTABLISH EXACT LOCATIONS IN THE FIELD TO CLEAR ALL OBSTACLES.
- 3. INSTALL CONDUITS, EZ PATHS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT TO NOT INTERFERE WITH THE OPERATION OF DOORS AND OTHER EQUIPMENT.
- 4. FURNISH AND INSTALL COMPLETE J-HOOK SYSTEM. SURVEY, LAYOUT AND SUBMIT DETAILED INSTALLATION PLANS.
- 5. ALL NETWORK CABLING AND TERMINATIONS SHALL COMPLY WITH EIA/TIA STANDARDS. CABLE/WIRE FURNISHING, INSTALLATIONS, AND TERMINATIONS SHALL BE PERFORMED BY CONTRACTOR
- 6. STAGE WORK SHALL NOT INTERFERE WITH ONGOING OPERATIONS. COORDINATE WITH GENERAL CONTRACTOR AND PROJECT MANAGER.
- 7. EXISTING SYSTEMS WHICH REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REMOVE ITEMS TO SUPPORT GENERAL CONTRACTOR WORK AND REPLACE AS NEEDED.
- 8. EXISTING SYSTEMS NOT CAPTURED ON THE DESIGN DRAWINGS ARE TO REMAIN AND TO BE REINSTALLED AS IS.
- 9. SELECT MATERIALS DESIGNED FOR USE IN INDOOR/RISER ENVIRONMENTS UNLESS DIRECTED OTHERWISE.
- 10. COORDINATE ALL CONNECTIONS TO EXISTING EQUIPMENT AND SYSTEMS WITH PROJECT ENGINEER.
- 11. APPROPRIATE CABLE LENGTHS OF ALL EXTENDED CABLING SHALL BE ACCOUNTED FOR AND VERIFIED WITH THE PROJECT MANAGER AND THE PROJECT ENGINEER.
- 12. EXTENSION OF ALL CAT 6 DATA CABLING SHALL BE PERFORMED VIA RJ-45 8P8C MODULAR PLUG BEING EXTENDED FROM THE PATCH PANEL PORT TO THE BACK SIDE OF NEW PATCH PANELS.
- 13. ALL EXISTING ELECTRICAL DATA EQUIPMENT IS TO BE RE-USED. MOVE, INSTALL AND RE-PATCH ALL NEW DATA CONNECTIONS TO NEWLY POSITIONED EQUIPMENT.

CONTRACTOR RESPONSIBILITIES REGARDING EXISTING CONDITIONS:

- 1. INFORMATION CONTAINED IN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR IN EXECUTING THE WORK. THIS INFORMATION HAS BEEN TAKEN IN PART FROM DRAWINGS SUPPLIED BY OWNER AND HAS BEEN FURTHER SUPPLEMENTED WITH FIELD MEASUREMENTS AND OBSERVATIONS.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND DOCUMENT ALL EXISTING CONDITIONS THAT MAY AFFECT OR BE AFFECTED BY NEW WORK, AND TO COORDINATE SUCH FIELD VERIFICATION WITH THE CONTRACT DOCUMENTS AND THE EXECUTION OF THE WORK. ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS OR POTENTIAL CONFLICTS WITH THE PROPOSED WORK SHALL BE BROUGHT TO PROJECT ENGINEER'S ATTENTION IMMEDIATELY.
- FIELD VERIFICATION OF EXISTING CONDITIONS RELATED TO SPECIFIC PORTIONS OF THE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF OTHER SCHEDULED WORK SO AS TO ALLOW FOR THE TIMELY IDENTIFICATION OF CONDITIONS THAT MAY OTHERWISE AFFECT THE SCHEDULED INSTALLATION OF NEW WORK AS DESIGNED AND DETAILED TO AVOID DELAYS TO THE PROJECT SHOULD SUCH CONDITIONS BE DISCOVERED.
- THE CONTRACTOR SHALL PROVIDE FOR A MINIMUM PERIOD OF TEN (10) CALENDAR DAYS DURING WHICH TIME THE PROJECT ENGINEER WILL EVALUATE THE CONDITIONS AND MAKE ANY REQUIRED DETERMINATIONS AND RECOMMENDATIONS FOR INSTALLING THE NEW WORK. ANY NATIONAL HOLIDAYS FALLING WITHIN THESE CALENDAR DAYS SHALL NOT BE COUNTED WITHIN THE 10 DAYS.
- THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID PROPOSAL. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND WITH THE IMPACT OF THE NEW WORK ON THE EXISTING CONDITIONS AND PREMISES.
- 6. ANY AREAS OF CONCERN SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO SUBMITTING A BID PROPOSAL. NO ADDITIONAL COST TO THE OWNER WILL BE APPROVED WHICH IS ATTRIBUTABLE TO THE CONTRACTORS FAILURE TO VISIT THE EXISTING SITE IN ORDER TO VERIFY ALL EXISTING PROJECT ELEMENTS AND CONDITIONS.
- THE PROJECT BUILDING AND AREA IS CURRENTLY OCCUPIED AND MUST REMAIN COMPLETELY OPERATIONAL DURING NORMAL HOURS (24 HOURS PER DAY, 7 DAYS PER WEEK) COORDINATE ANY CONSTRUCTION AND/OR STAGING ACTIVITIES THAT MAY IMPEDE NORMAL OPERATIONS WITH THE PROJECT ENGINEER.

SEQUENCE OF CONSTRUCTION:

WORK SHALL BE DONE AT A TIME APPROVED BY PROJECT MANAGER. 1. INSTALL NEW EQUIPMENT AND CABLING TO NEW LOCATIONS.

- 2. COORDINATE CUT-OVER. MAKE NEW TERMINATIONS.
- 5. RE-CONNECT ALL EQUIPMENT. 6. VERIFY FUNCTIONALITY.

COMMUNICATIONS NOTES:

- 1. PROVIDE FACTORY ACCEPTANCE TESTING PRIOR TO SHIPPING EQUIPMENT TO THE SITE. PERFORM INTEGRATION AND TESTING ON-SITE TO ENSURE FUNCTIONALITY. A THIRD-PARTY COMMISSIONING AGENT SHALL VERIFY THE SYSTEM IS OPERATING AND FUNCTIONING PER CONTRACT REQUIREMENTS.
- 2. ALL EQUIPMENT RACKS/CABINETS (WALL AND FLOOR MOUNTED) SHALL BE PROPERLY SECURED AND ANCHORED IN ACCORDANCE WITH ALL SEISMIC REQUIREMENTS FOR THE REGION AND PER MANUFACTURER RECOMMENDATIONS.
- 3. PROVIDE INSULATED BUSHING ON OPEN ENDS OF ALL COMMUNICATIONS CONDUITS.
- 4. CAT 6 CABLE TO BE NEC RATED FOR THAT ENVIRONMENT THAT IT IS ROUTED OR
- 5. INSTALL NEW CAT 6 VOICE/DATA CABLE TIES FROM EXISTING LOCATION TO NEW
- 6. INSTALL NEW COPPER AND FIBER ENCLOSURES IN NEW LOCATIONS.

DATA CABLING SELECTION AND INSTALLATION NOTES: HORIZONTAL CABLING SYSTEM

APPROVED COPPER MEDIA

- 1. UNSHIELDED TWISTED PAIR (UTP), 4-PAIR, SOLID CORE, 22 TO 24 AWG CABLE WILL BE INSTALLED FOR VOICE AND DATA SERVICES IN THE HORIZONTAL CABLING SYSTEMS.
- 2. NEW INSTALLATIONS: AT A MINIMUM CATEGORY 6 UTP.

HORIZONTAL CABLING SYSTEMS CONSIDERATIONS

1. MAXIMUM LENGTH OF HORIZONTAL DISTRIBUTION CABLE IS 90m (295 FT) FROM THE CROSS-CONNECT TO THE OUTLET/CONNECTOR.

COPPER INSTALLATION PRACTICES

- 1. INSTALLERS MUST ADHERE TO MINIMUM BEND RADII DEFINED FOR CATEGORY CABLES (BEND RADII SHOULD BE NO LESS THAN FOUR-TIMES THE DIAMETER OF THE 4 PAIR CABLE).
- 2. AVOID SHARP BENDS (90 DEGREES) WHEN INSTALLING CABLE. TOTAL BENDS IN A SINGLE RUN SHALL NOT EXCEED 360 DEGREES.

FIBER INSTALLATION PRACTICES

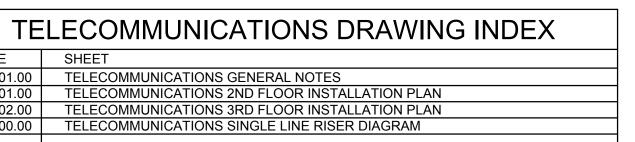
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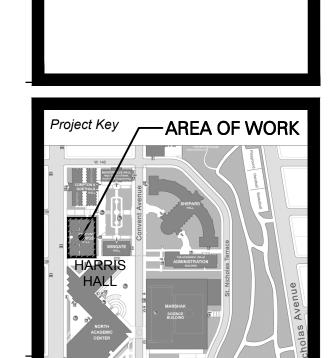
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SINGLEMODE FIBER

1. RISER RATED, 12 STRAND, BX ENCAPSULATED, SM FIBER, LC CONNECTORS AND PANEL ADAPTERS.

	TELECOMMUNICATIONS DRAWING INDEX			
	NAME	SHEET		
	TN-001.00	TELECOMMUNICATIONS GENERAL NOTES		
	TN-101.00	TELECOMMUNICATIONS 2ND FLOOR INSTALLATION PLAN		
	TN-102.00	TELECOMMUNICATIONS 3RD FLOOR INSTALLATION PLAN		
	TN-400.00	TELECOMMUNICATIONS SINGLE LINE RISER DIAGRAM		
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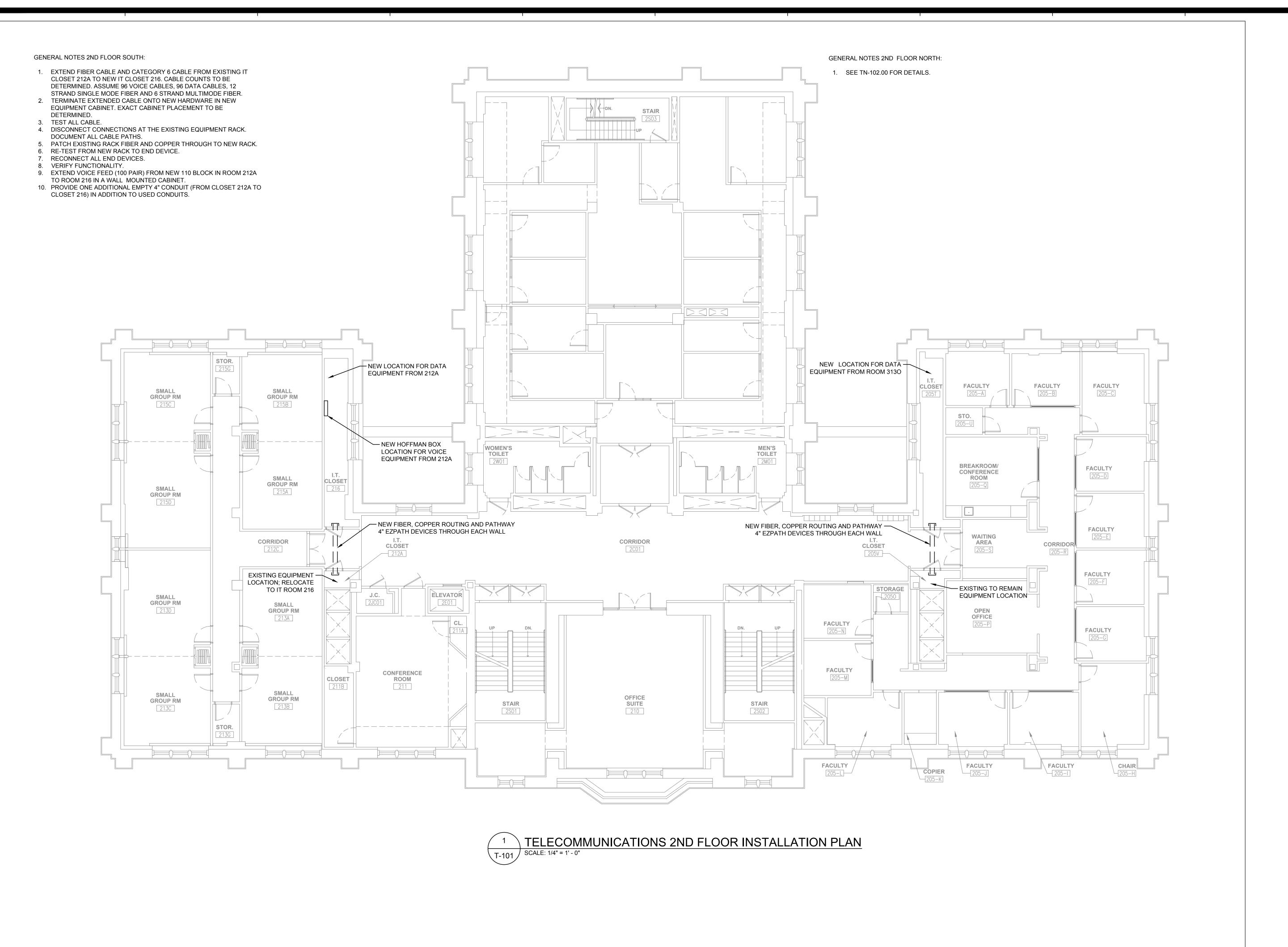
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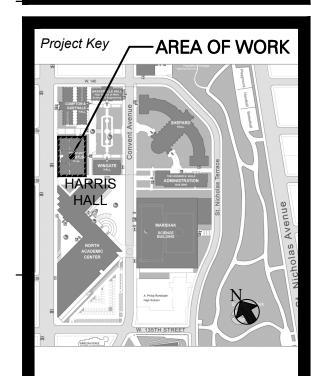
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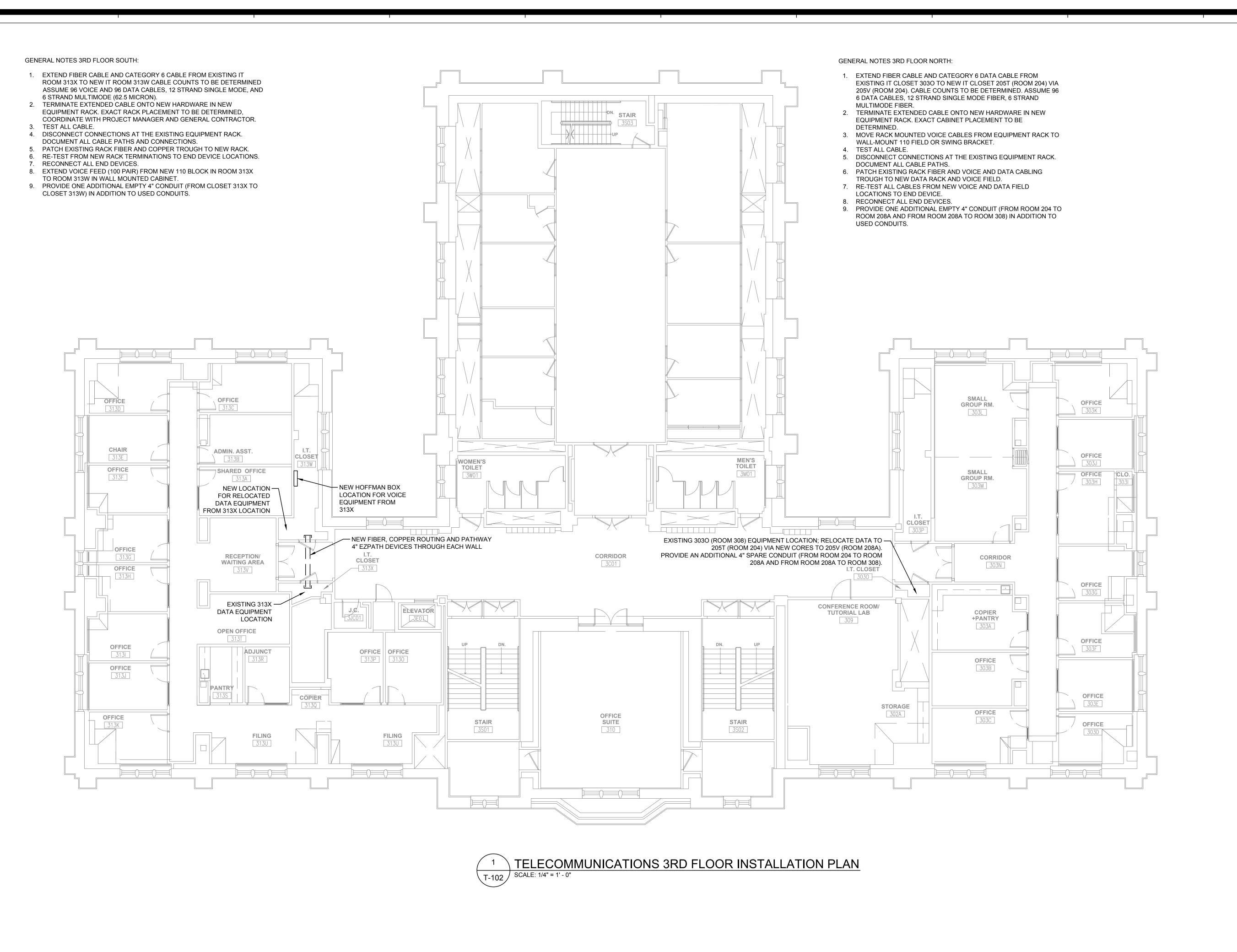
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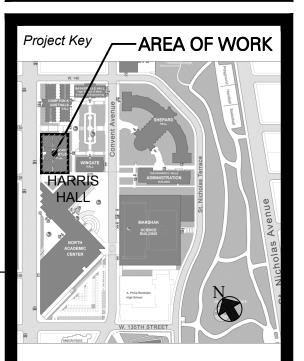
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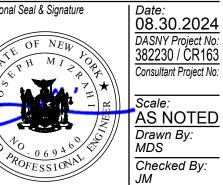
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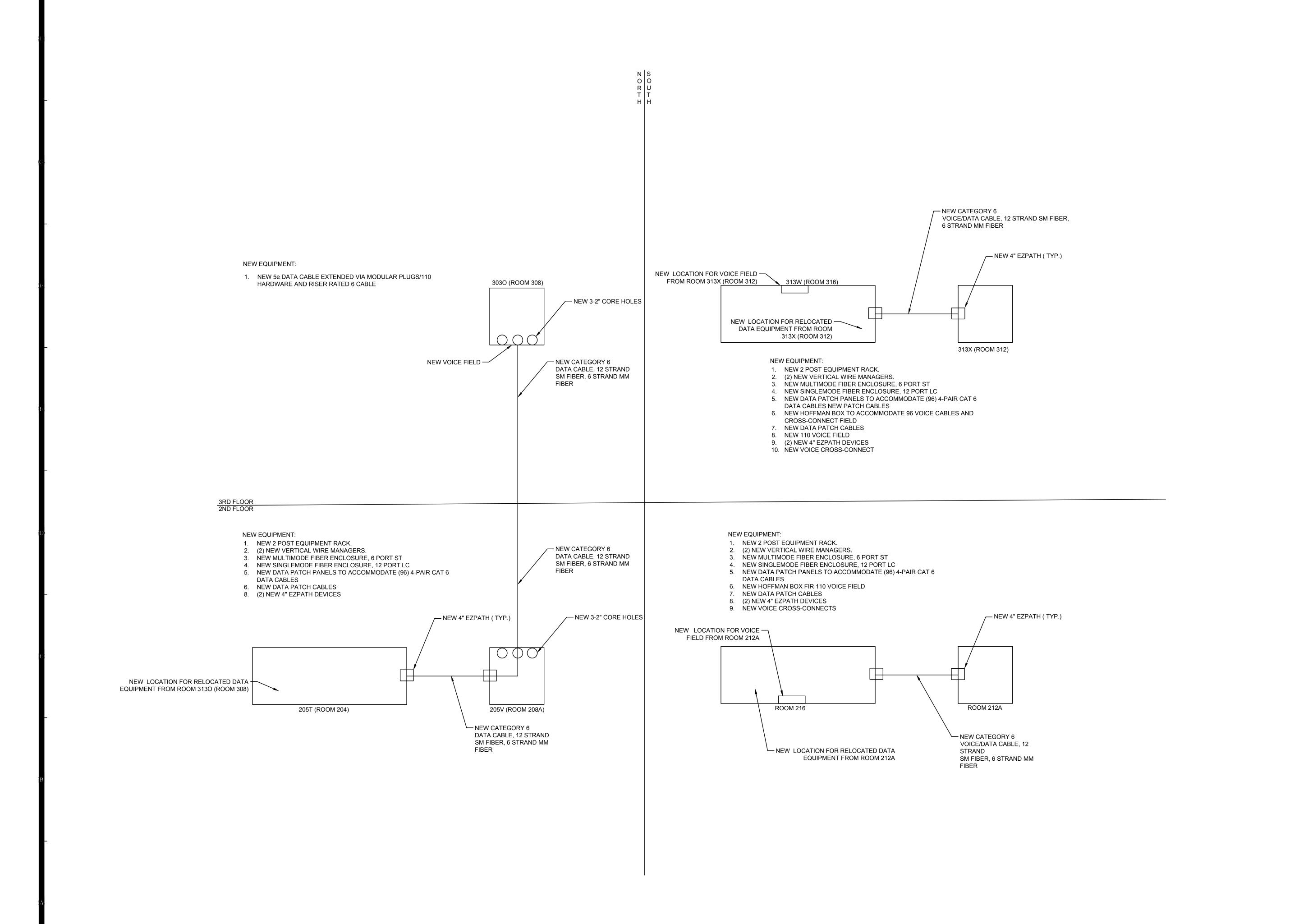
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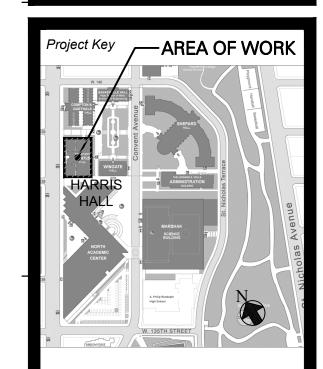
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