

LEROY T. WALKER GYMNASIUM

ELEVATOR MODIFICATION

1405 S Alston Ave
Durham, NC 27707

OWNER:

NCCU
1801 Fayetteville Street
Durham, NC 27707
T. 919.530.7947
JOSHUA FREY

CONTRACT DOCUMENTS

MAY 04, 2023

NC SCO PROJECT ID NO.: 23-26020-01A

MECHANICAL AND
ELECTRICAL ENGINEER:



ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devitainc.com
DeVita & Associates, Inc. Project : 20200-04
NC Firm License # C-0819

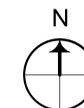
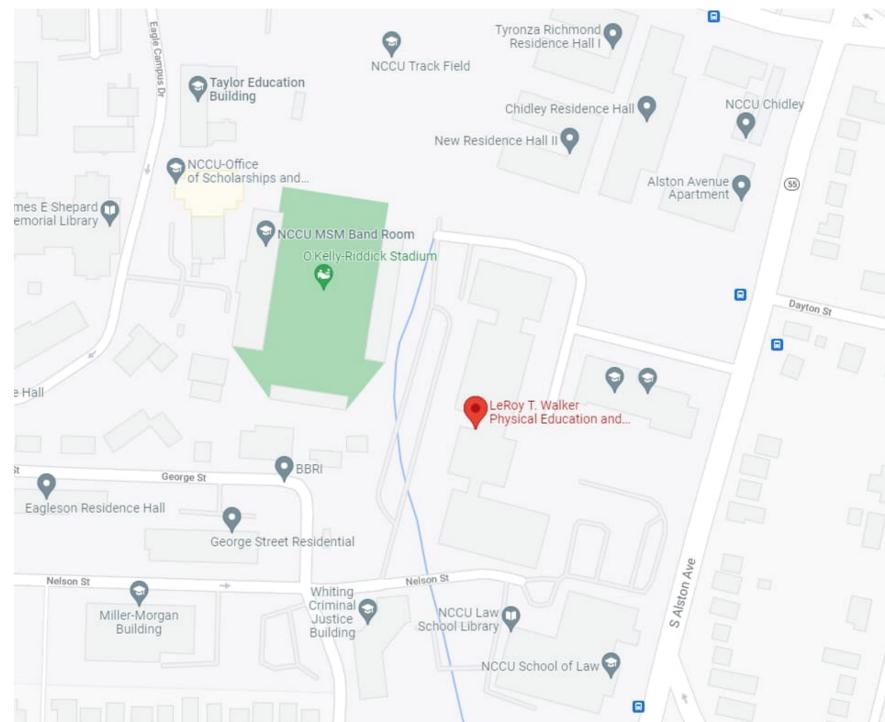
ARCHITECT:



Together, we create.

DRAWING INDEX			
SHEET NUMBER	NAME	REVISIONS:	
		NO	DATE
G000	COVER SHEET AND DRAWING INDEX	1	04/05/23
G001	BUILDING CODE SUMMARY		
G002	COMPOSITE LIFE SAFETY PLANS		
G003	FIRE RESISTANCE ASSEMBLIES		
A001	GENERAL ARCHITECTURAL INFORMATION		
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A411	FIRST LEVEL ENLARGED FLOOR PLANS	1	04/05/23
A412	SECOND LEVEL ENLARGED FLOOR PLANS	1	04/05/23
A413	THIRD LEVEL ENLARGED FLOOR PLANS	1	04/05/23
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AS31	HOISTWAY SECTIONS	1	04/05/23
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M001	MECHANICAL LEGEND, NOTES, AND DETAILS		
M100	MECHANICAL FLOOR PLAN	1	04/05/23

LOCATION MAP



PROJECT NUMBER: 22111

CONSULTANT

PROJECT INFORMATION:

WALKER GYMNASIUM ELEVATOR MODIFICATION

1450 S Alston Ave, Durham,
NC 27707

SCO PROJECT NO: 23-26020-01A

ISSUE DATE: 05/04/23

PHASE: BID SET

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME
**COVER SHEET AND
DRAWING INDEX**

DRAWING NO.
G000

Drawn By: RHV Checked By: KCW

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2 - FAMILY DWELLINGS AND TOWNHOUSES)

(REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLAN SHEET 1 OR 2)

NAME OF PROJECT: North Carolina Central University Walker Complex - Elevator Renovations IP CODE: 27707
 ADDRESS: 1501 Fayetteville Street, Durham, North Carolina
 PROPOSED USE: NO CHANGE OF OCCUPANCY
 OWNER OR AUTHORIZED AGENT: John M. Frey, RA PHONE: (919) 475-1456 E-MAIL: jfrey@nccu.edu
 OWNED BY: CITY/COUNTY PRIVATE STATE COUNTY STATE

LEAD DESIGN PROFESSIONAL

DESIGNER	NAME	LICENSE#	PHONE	E-MAIL	
ARCHITECTURAL:	M&Hworks P.A.	John Millicano	14263	(919) 682-2820	jmillicano@mhwworks.com
CIVIL:	N/A	N/A	N/A	N/A	N/A
ELECTRICAL:	Devita Inc.	Kim Wooten	19586	(984) 222-1551	kwooten@devitainc.com
FIRE ALARM:	Devita Inc.	Kim Wooten	19586	(984) 222-1551	kwooten@devitainc.com
PLUMBING:	Devita Inc.	Michael Rogers	18553	(984) 222-1561	mrogers@devitainc.com
MECHANICAL:	Devita Inc.	Michael Rogers	18553	(984) 222-1561	mrogers@devitainc.com
SPRINKLER/STANDPIPE:	N/A	N/A	N/A	N/A	N/A
STRUCTURAL:	N/A	N/A	N/A	N/A	N/A
RETAINING WALLS & HIGHWAY:	N/A	N/A	N/A	N/A	N/A
OTHER:	Stewart Elevator Co., LLC	Rusty Stewart	N/A	(910) 514-3071	rusty@se.com

*"DBEP" should include firms and individuals such as, but not limited to, pre-engineering, interior designers, etc.)

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 1ST TIME INTERIOR COMPLETION SHELLCORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION SHELLCORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING: PRESERVATIVE HISTORIC PROPERTY CHANGE OF USE
 LEVEL I LEVEL II LEVEL III CHAPTER 14

CONSTRUCTED (date): 1982 **CURRENT OCCUPANCY(S) (Ch. 3) Group A-3 WITH ACCESSORY USES**
RENOVATED (date): 2009 **PROPOSED OCCUPANCY(S) (Ch. 3) NO CHANGE OF OCCUPANCY**

RISK FACTOR (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA:
 CONSTRUCTION TYPE: I-A I-B I-A I-B I-A I-B I-C I-D I-E I-F
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13B NFPA 13D
 STANDPIPES: YES NO YES NO YES NO YES NO
 FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES AND REQUIREMENTS

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING (SQ. FT.)	NEW WORK AREA (SQ. FT.)	SUB TOTAL
7TH FLOOR:			
6TH FLOOR:			
5TH FLOOR:			
4TH FLOOR:			
3RD FLOOR:			
2ND FLOOR:			
MEZZANINE:			
BASEMENT:			
TOTAL:			

SEE BUILDING AREA TABULATION BY OCCUPANCY BELOW

ALLOWABLE AREA

PRIMARY OCCUPANCY: (SELECT ONE)
 ASSEMBLY: A-1 A-2 A-3 A-4 A-5
 BUSINESS: B
 EDUCATIONAL: E
 FACTORY: F-1 Moderate F-2 Low
 HAZARDOUS: H-1 Detonable H-2 Detonable H-3 Combust H-4 Health H-5 IFLM
 INSTITUTIONAL: I-1 CONDITION 1 I-2 I-3 I-4 I-5
 MERCANTILE: M-1 M-2 M-3 M-4
 RESIDENTIAL: R-1 R-2 R-3 R-4
 STORAGE: S-1 S-2 S-3 S-4 S-5
 UTILITY & MISC.: U-1 U-2 U-3 U-4 U-5

ACCESSORY OCCUPANCY CLASSIFICATIONS:
 INCIDENTAL USES (Table 309): N/A
 SPECIAL USES (Chapter 6 - All Code Sections): N/A
 SPECIAL PROVISIONS (Chapter 6 - All Code Sections): N/A
 MIXED OCCUPANCY: YES NO SEPARATION: Not Required HR: EXCEPTION: N/A
 NON-SEPARATED USE (308.3) - THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
 SEPARATED USE (308.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A **ACTUAL AREA OF OCCUPANCY B** = **1.00** = **1.00**

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)		(B) TABLE 504.2 AREA	(C) AREA FOR FRONTAGE INCREASE*	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
		1	2			
First	A-4, B	67,802 SF		Unlimited		
Second	A-4, B	51,794 SF		Unlimited		
Third	A-4, B	15,658 SF		Unlimited		
Fourth	Mechanical	303 SF		Unlimited		

*FRONTAGE AREA INCREASE FROM SECTION 504.3 ARE COMPUTED THIS WAY:
 A. PERIMETER WHICH INCLUDES ALL EXTERIOR WALLS WHICH BOUND THE OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = 1,541 LF (F)
 B. TOTAL BUILDING PERIMETER = 2,100 LF (F)
 C. $\frac{1,541}{2,100} = 0.7338$
 D. MINIMUM WIDTH OF PUBLIC WAYS = 30' (W)
 E. $0.7338 \times 30' = 22.014$ (F)
 F. $22.014 \times 48.38 = 1,065.4$ (SF)
 UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 307.
 *MAXIMUM BUILDING AREA = TOTAL NUMBER OF STOREYS IN THE BUILDING x D x 104.5.
 *MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.
 *FRONTAGE INCREASE IS BASED ON THE UNSPRINKLED AREA VALUE IN TABLE 504.2.

ALLOWABLE HEIGHT:

BUILDING HEIGHT IN FEET (Table 504.3)	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE*
160'-0"	40'-0" (Existing)		Table 503
BUILDING HEIGHT IN STOREYS (Table 504.4)	4		Table 503

*PROVIDE CODE REFERENCE IF THE SHOWN ON PLANS QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
 *THE MAXIMUM HEIGHT OF AIR BEARING STRUCTURES MUST COMPLY WITH TABLE 410.1.1.
 *THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.5.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		Notes:		
		REQD	PROVIDED (W/ -) REDUCTION	DETAIL # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING BEARING WALLS						
BEARING WALLS						
EXTERIOR						
NORTH	30'-0"	2	2	Existing	Existing	Existing
EAST	30'-0"	2	2	Existing	Existing	Existing
WEST	30'-0"	2	2	Existing	Existing	Existing
SOUTH	30'-0"	2	2	Existing	Existing	Existing
INTERIOR	N/A	2	2	Existing	Existing	Existing
NON-BEARING WALLS & PARTITIONS						
EXTERIOR WALLS						
NORTH	30'-0"	2	2	Existing	Existing	Existing
EAST	30'-0"	2	2	Existing	Existing	Existing
WEST	30'-0"	2	2	Existing	Existing	Existing
SOUTH	30'-0"	2	2	Existing	Existing	Existing
INTERIOR WALLS AND PARTITIONS	N/A	N/A	N/A	N/A	N/A	N/A
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS						
FLOOR CEILING ASSEMBLY		2	2	Existing	Existing	Existing
COLUMNS SUPPORTING BEAMS		2	2	Existing	Existing	Existing
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS						
ROOF CEILING ASSEMBLY		1	1	Existing	Existing	Existing
COLUMNS SUPPORTING BEAMS		1	1	Existing	Existing	Existing
SHAFT ENCLOSURES - EXIT		1	1	Existing	Existing	Existing
SHAFT ENCLOSURES - OTHER		1	1	Existing	Existing	Existing
CORRIDOR SEPARATION		0	0	N/A	N/A	N/A
OCCUPANCY/FIRE BARRIER SEPARATION		0	0	N/A	N/A	N/A
PARTYFIRE WALL SEPARATION		0	0	N/A	N/A	N/A
SMOKE BARRIER SEPARATION		0	0	N/A	N/A	N/A
SMOKE BARRIER SEPARATION		0	0	N/A	N/A	N/A
TENANT/DWELLING UNIT SEPARATION		0	0	N/A	N/A	N/A
INCIDENTAL USE SEPARATION		0	0	N/A	N/A	N/A

* INDICATE SECTION NUMBER PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:	EXIT SIGNS:	FIRE ALARMS:	SMOKE DETECTION SYSTEMS:	PANIC HARDWARE:
<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET:

Fire and/or smoke egress wall locations (Chapter 7):
 Assured and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.6)
 Occupancy use for each area as it relates to occupant load calculation (Table 1004.2)
 Exit access travel distances (1017)
 Common path of travel distances (Table 1006.2.1 & 1006.3.2.1)
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door (accommodate based on egress width (705.3) Actual occupant load for each exit door

A separate schematic plan indicating where the rated floor ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.1)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification 2 (407.9)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107):

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL # ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (Section 1106):

LOT OR PARKING AREA	TOTAL NUMBER OF PARKING SPACES	# OF ACCESSIBLE SPACES PROVIDED		TOTAL # OF ACCESSIBLE SPACES PROVIDED
		15' ACCESSIBLE	# ACCESS AISLE	
Daily Required	Existing	Existing	Existing	Existing
Event/Overflow	Existing	Existing	Existing	Existing
TOTAL	Existing	Existing	Existing	Existing

PLUMBING FIXTURE REQUIREMENTS (SECTION 2902.1):

USE: 4	WATER CLOSETS			URINALS			LAVATORIES			SHOWERS/ TUBS		DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
EXISTING	2	4	0	1	2	2	2	0	1	1	1	1	1
NEW	2	4	0	1	2	2	0	1	1	1	1	1	1
REQUIRED	2	7	0	2	3	3	0	2	2	2	2	2	2

SPECIAL APPROVALS:
 1. North Carolina Department of Administration; Office of State Construction.
 2. City of Durham; North Carolina

ENERGY SUMMARY:

ENERGY REQUIREMENTS:
 THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTION OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE APPROXIMATE ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

CLIMATE ZONE: 3A 4A 5A
 METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE
 IF "OTHER" SPECIFY SOURCE HERE: _____

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: Bitumen over Built up Membrane
 U-VALUE OF TOTAL ASSEMBLY: 0.06 (Roof) 0.99 (As-Built Dwg.)
 R-VALUE OF INSULATION: R-25.52 (Existing Building)
 SKYLIGHT IN EACH ASSEMBLY: N/A
 U-VALUE OF SKYLIGHT: N/A
 100% DESIGN SURFACE OF SKYLIGHT IN EACH ASSEMBLY: N/A

EXTERIOR WALLS (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: Brick & Concrete Masonry Units
 U-VALUE OF TOTAL ASSEMBLY: 0.85 (Ext. Bldg. Per As-Built Dwg.)
 R-VALUE OF INSULATION: R-10 (Approximate)
 OPERING WINDOWS OR DOOR WITH GLAZING:
 U-VALUE OF ASSEMBLY: 49 (Approximate)
 Solar heat gain coefficient: 0.76
 protection factor: Yes
 Door R-Values: R-5

WALLS BELOW GRADE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: Brick & Concrete Masonry Units
 U-VALUE OF TOTAL ASSEMBLY: 0.85 (Ext. Bldg. Per As-Built Dwg.)
 R-VALUE OF INSULATION: R-10 (Approximate)
 FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: N/A
 R-VALUE OF INSULATION: N/A
 FLOORS SLAB ON GRADE
 DESCRIPTION OF ASSEMBLY: 4" Concrete (Existing)
 U-VALUE OF TOTAL ASSEMBLY: 0.25
 R-VALUE OF INSULATION: R-10 (Approximate)
 Horizontal / vertical requirement: N/A
 Slab header (Y/N): No

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEET IF APPLICABLE)

DESIGN LOADS:

IMPORTANCE FACTORS: SHOW (S) N/A SEISMIC (S) 1.25
 UPLIFT LOADS: ROOF N/A psf MEZZANINE N/A psf FLOOR 100 psf

GROUND SNOW LOAD: N/A psf

WIND LOAD: ULTIMATE WIND SPEED N/A mph (ASCE-7) EXPOSURE CATEGORY N/A

SEISMIC DESIGN CATEGORY: A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
 RISK CATEGORY (TABLE 1604.5): I II III IV
 SPECTRAL RESPONSE ACCELERATION: S_{DS} 0.50 S_{D1} 0.30 S_{D2} 0.20
 SITE CLASSIFICATION (ASCE 7): I II III IV V VI
 DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA

BASIC STRUCTURAL SYSTEM: BEARING WALL DUAL WITH SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL WITH INFERRED/RAE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM
 ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITIES:
 FIELD TEST PROVIDED COPY OF TEST REPORT: 1,500 psf
 PRESUMPTIVE BEARING CAPACITY: 4,000 psf
 FILE SIZE, TYPE, AND CAPACITY: N/A psf

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE
 WINTER DRY BULB: _____ SUMMER DRY BULB: _____
 WINTER WET BULB: _____ SUMMER WET BULB: _____
 INDOOR DESIGN CONDITIONS
 WINTER DRY BULB: _____ SUMMER DRY BULB: _____
 RELATIVE HUMIDITY: _____

BUILDING HEAT LOAD: _____ **CHALLENGE:** _____
BUILDING COOLING LOAD: _____ **LIST EQUIPMENT EFFICIENCIES:** _____

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

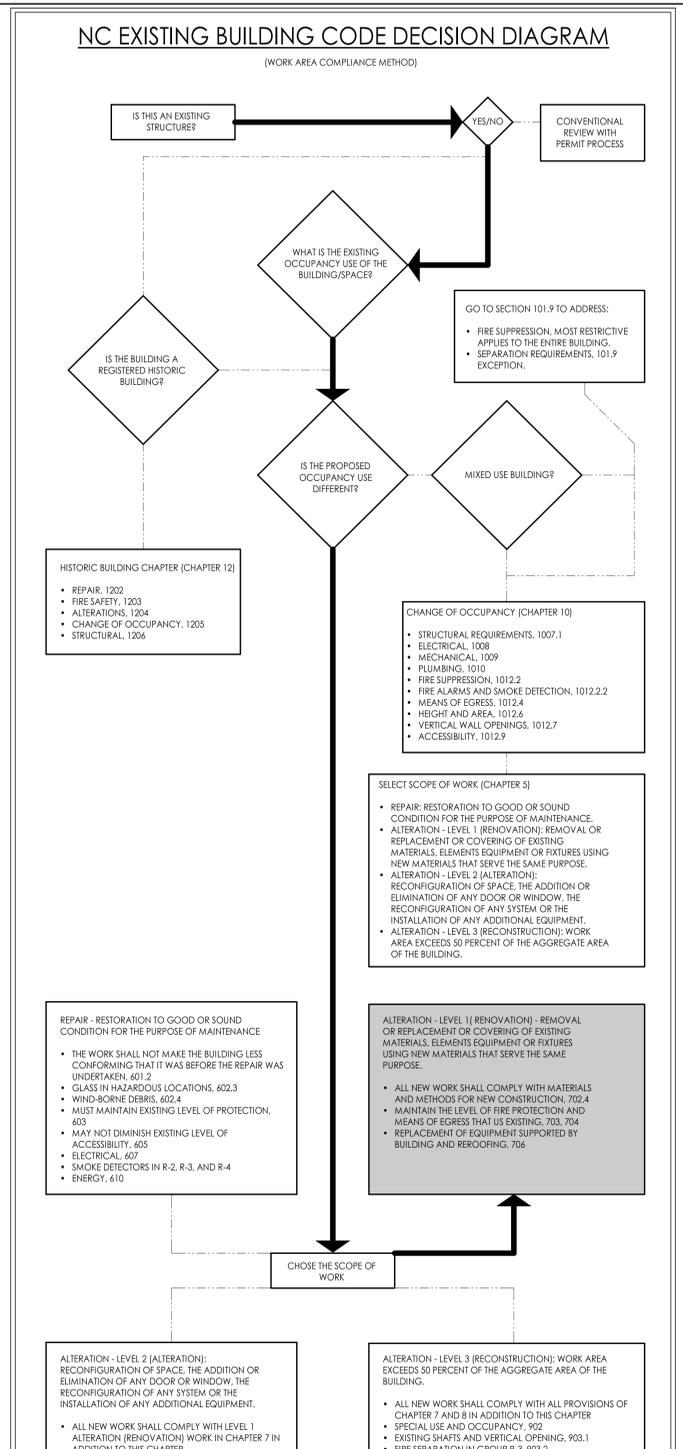
METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FUTURE:
 NUMBER OF LAMPS IN FUTURE:
 BALLAST TYPE USED IN THE FUTURE:
 NUMBER OF BALLASTS IN FUTURE:
 TOTAL WATTAGE PER FIXTURE:
 TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)
 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

ADDITIONAL PRESERVATIVE COMPLIANCE (When using the 2018 NCCBC, not required for ASHRAE 90.1)

C404.2 More Efficient Mechanical Equipment
 C404.3 Reduced Lighting Power Density
 C404.4 Enhanced Digital Lighting Controls
 C404.5 On-Site Supply of Renewable Energy
 C404.6 Dedicated Outdoor Air Service
 C404.7 Reduced Energy Use in Service Water Heating

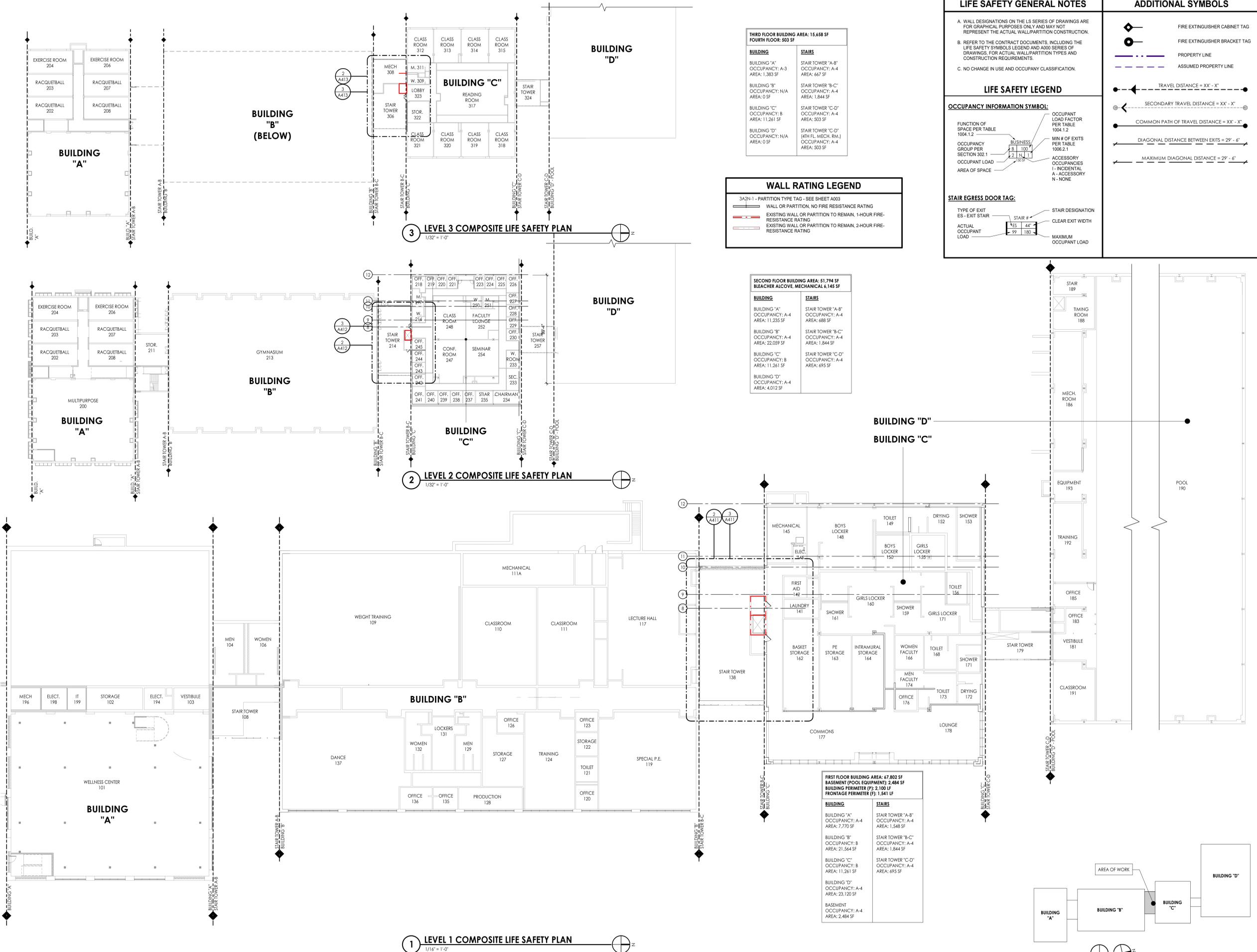


BUILDING AREA TABULATION BY OCCUPANCY

LEVEL	BUILDING											TOTALS				
	A			B			C			D		GROUP A-3 TOTALS	GROUP A-4 TOTALS	GROUP B TOTALS		
	GROUP A-3	GROUP A-4	GROUP B	GROUP A-3	GROUP A-4	GROUP B	GROUP A-3	GROUP A-4	GROUP B	GROUP A-3	GROUP A-4	GROUP B	LEVEL TOTALS	GROUP A-3 TOTALS	GROUP A-4 TOTALS	GROUP B TOTALS
POOL BASEMENT																
1		9,318			1,844	21,564					2,484		2,484			
2			11,923		23,903						23,120		67,802			
3	1,383		667		1,844						4,012		51,794			
4											503		15,658			
TOTALS	1,383	21,908	-	-	27,591	21,564	-	-	1,893	33,783	-	30,119	-	1,383	81,511	55,347
BUILDING TOTAL													138,241			

CODE SUMMARY GENERAL NOTES

- GOVERNING BUILDING CODE IS 2018 NORTH CAROLINA STATE EXISTING BUILDING CODE (NCSIBC).
- ORIGINAL BUILDING WAS DESIGNED IN 1982 AND CONSTRUCTED APPROXIMATELY BETWEEN 1985 AND 1984. IT IS ASSUMED THAT PERMIT APPROVAL WAS GRANTED UNDER THE 1978 NCSBC CODE CYCLE WITH AMENDMENTS THROUGH



**THIRD FLOOR BUILDING AREA: 15,650 SF
FOURTH FLOOR: 503 SF**

BUILDING	STAIRS
BUILDING "A" OCCUPANCY: A-3 AREA: 1,383 SF	STAIR TOWER "A-B" OCCUPANCY: A-4 AREA: 667 SF
BUILDING "B" OCCUPANCY: N/A AREA: 0 SF	STAIR TOWER "B-C" OCCUPANCY: A-4 AREA: 1,844 SF
BUILDING "C" OCCUPANCY: B AREA: 11,261 SF	STAIR TOWER "C-D" OCCUPANCY: A-4 AREA: 503 SF
BUILDING "D" OCCUPANCY: N/A AREA: 0 SF	STAIR TOWER "C-D" [4TH FL. MECH. RM.] OCCUPANCY: A-4 AREA: 503 SF

WALL RATING LEGEND

3A2N-1 - PARTITION TYPE TAG - SEE SHEET A003	WALL OR PARTITION, NO FIRE RESISTANCE RATING
(Red dashed line)	EXISTING WALL OR PARTITION TO REMAIN, 1-HOUR FIRE-RESISTANCE RATING
(Red solid line)	EXISTING WALL OR PARTITION TO REMAIN, 2-HOUR FIRE-RESISTANCE RATING

**SECOND FLOOR BUILDING AREA: 51,774 SF
BLEACHER ALCOVE, MECHANICAL 6,145 SF**

BUILDING	STAIRS
BUILDING "A" OCCUPANCY: A-4 AREA: 11,233 SF	STAIR TOWER "A-B" OCCUPANCY: A-4 AREA: 688 SF
BUILDING "B" OCCUPANCY: A-4 AREA: 22,009 SF	STAIR TOWER "B-C" OCCUPANCY: A-4 AREA: 1,844 SF
BUILDING "C" OCCUPANCY: B AREA: 11,261 SF	STAIR TOWER "C-D" OCCUPANCY: A-4 AREA: 695 SF
BUILDING "D" OCCUPANCY: A-4 AREA: 4,012 SF	

**FIRST FLOOR BUILDING AREA: 67,802 SF
BASEMENT (POOL EQUIPMENT): 2,484 SF
BUILDING PERIMETER (P): 2,100 LF
FRONTAGE PERIMETER (F): 1,541 LF**

BUILDING	STAIRS
BUILDING "A" OCCUPANCY: A-4 AREA: 7,770 SF	STAIR TOWER "A-B" OCCUPANCY: A-4 AREA: 1,548 SF
BUILDING "B" OCCUPANCY: B AREA: 21,564 SF	STAIR TOWER "B-C" OCCUPANCY: A-4 AREA: 1,844 SF
BUILDING "C" OCCUPANCY: B AREA: 11,261 SF	STAIR TOWER "C-D" OCCUPANCY: A-4 AREA: 695 SF
BUILDING "D" OCCUPANCY: A-4 AREA: 23,120 SF	
BASEMENT OCCUPANCY: A-4 AREA: 2,484 SF	

LIFE SAFETY GENERAL NOTES

- WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
- REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A000 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.
- NO CHANGE IN USE AND OCCUPANCY CLASSIFICATION.

LIFE SAFETY LEGEND

OCCUPANCY INFORMATION SYMBOL:

FUNCTION OF SPACE PER TABLE 1004.1.2	OCCUPANCY LOAD FACTOR PER TABLE 1004.1.2	MIN # OF EXITS PER TABLE 1008.2.1	ACCESSORY OCCUPANCIES
BUSINESS	100	2	INCIDENTAL
GROUP PER SECTION 302.1	100	2	A - ACCESSORY
OCCUPANT LOAD	100	2	N - NONE
AREA OF SPACE	100	2	

STAIR EGRESS DOOR TAG:

TYPE OF EXIT	STAIR #	STAIR DESIGNATION
ES - EXIT STAIR	123	STAIR #
	44	CLEAR EXIT WIDTH
ACTUAL OCCUPANT LOAD	29	MAXIMUM OCCUPANT LOAD
	180	

SEALS

50455

50455

05/04/23

14263

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RALEIGH, NC

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NORTH CAROLINA CENTRAL UNIVERSITY
FOUNDED 1910

PROJECT NUMBER: 22111

CONSULTANT:

PROJECT INFORMATION:

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

1450 S Alston Ave, Durham, NC 27707

SCO PROJECT NO: 23-26020-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

REVISIONS

NO.	DATE	DESCRIPTION

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DRAWING NAME
COMPOSITE LIFE SAFETY PLANS

DRAWING NO.
G002

Drawn By: HM Checked By: JMM

KEY PLAN
NOT TO SCALE

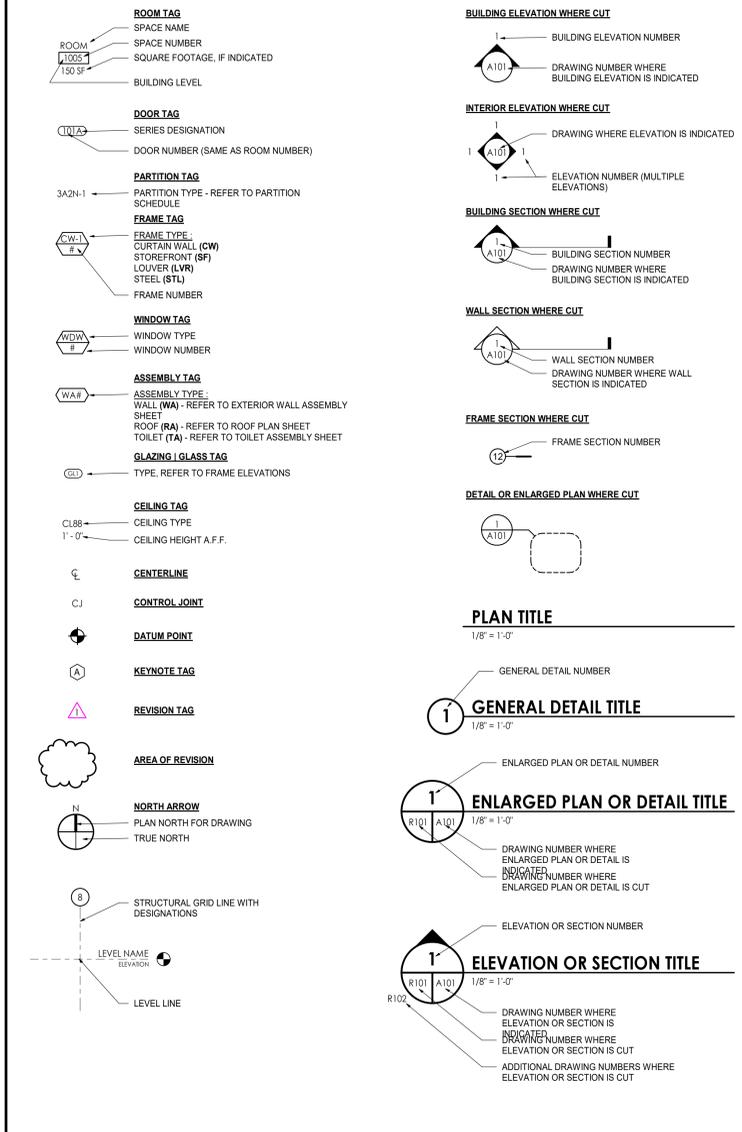
PROJECT NORTH
TRUE NORTH

NOTE: SEE SHEET G002 FOR OVERALL FLOOR PLANS

ARCHITECTURAL ABBREVIATIONS

A-PT	ACCENT PAINT	FURN	FURNITURE	RCP	REFLECTED CEILING PLAN
ABS	AIR BARRIER SYSTEM	FVC	FIRE VALVE CABINET	RD	ROOF DRAIN
ABV	ABOVE	FWC	FABRIC WALL COVERING	REFG	REFRIGERATOR
ACP	ACOUSTICAL CEILING PANEL	GA	GAUGE	RENF	REINFORCING, REINFORCE[D]
ACT	ACOUSTICAL CEILING TILE	GAL	GALLON	REEM	RECESSED ENTRY MAT
ACW	ALUMINUM CLAD WINDOW	GALV	GALVANIZED	REQD	REQUIRED
ADJ	ADJUSTABLE	GB	GYPSUM BOARD	RES	RESINOUS FLOORING
AFF	ABOVE FINISHED FLOOR	GB-R	GYPSUM BOARD - ABUSE RESISTANT	RFT	RUBBER FLOOR TILE
AHJ	AUTHORITY HAVING JURISDICTION	GB-IR	GYPSUM BOARD - IMPACT RESISTANT	RH	RIGHT HAND
AHU	AIR HANDLING UNIT	G-S	GYPSUM BOARD - SECURITY	RL	RAIN LEADER
ALT	ALTERNATE	GFR	GLASS FIBER REINFORCED CONCRETE	RM	ROOM
ALUM	ALUMINUM	GFRG	GLASS FIBER REINFORCED GYPSUM	RO	ROUGH OPENING
AP	ACCESS PANEL	GL	GLASS	RSE	RUBBER SHEET FLOORING
APC	ARCHITECTURAL PRECAST CONCRETE	GLBK	GLASS BLOCK	RSR	RESILIENT STAIR RISER
ARC	ABUSE RESISTANT COATING	GPM	GALLONS PER MINUTE	RST	RESILIENT STAIR TREAD
AS	ALUMINUM STOREFRONT	GRT	GROUT	RT	RIGHT
AUTO	AUTOMATIC	GSFT	GLAZED STRUCTURAL FACING TILE	RTU	ROOFTOP UNIT
AVG	AVERAGE	GT	GLASS TILE	SAB	SOUND ATTENUATION BLANKET
AW	ALUMINUM WINDOW	GWT	GLAZED WALL TILE	SC-PLK	SECURITY CEILING PLANK
AWC	ACOUSTICAL WALL COVERING	GYP	GYPSUM	SC-PNL	SECURITY CEILING PANEL
AWP	ACOUSTICAL WALL PANEL	H	HIGH	SCH	SCHEDULE
BD	BOARD	HB	HOSE BIBB	SF	SQUARE FEET / FOOT
BF	BARRIER FREE (ADA or A117.1)	HBD	HARDBOARD	SFRM	SPRAYED FIRE RESISTANT MATERIAL
BLDG	BUILDING	HDC	HOLD DOWN CLIPS	SHM	SECURITY HOLLOW METAL
BLKG	BLOCKING	HDR	HARDENER	SHTG	SHEATHING
BOT	BOTTOM	HDWR	HARDWOOD	SM	SIMILAR
BRG	BEARING	HDWR	HARDWARE	SPEC	SPECIFICATION
BTWN	BETWEEN	HM	HOLLOW METAL	SPF	SPRAYED POLYURETHANE FOAM
BUR	BUILT UP ROOF	HORIZ	HORIZONTAL	SPR	SPRINKLER
C	CARPET	HPC	HIGH PERFORMANCE COATINGS	SQ	SQUARE
C-TILE	CARPET TILE	HPP	HIGH PERFORMANCE FLOOR PAINT	SQ FT	SQUARE FEET / FOOT
CAB	CABINET	HT	HEIGHT	SRD	SECONDARY ROOF DRAIN
CB	CHAIRBOARD	HVAC	HEATING, VENTILATING, AIR CONDITIONING	SS	STAINLESS STEEL
CCTV	CLOSED CIRCUIT TELEVISION	ID	INSIDE DIAMETER	SSM	SOLID SURFACE MATERIAL
CEM	CEMENT	IN	INCH, INCHES	ST	STREET
CFS-S	COLD FORMED STEEL FRAMING, NON-STRUCTURAL	INCL	INCLUDE, INCLUDING	STC	SOUND TRANSMISSION COEFFICIENT
CFS-S	COLD FORMED STEEL FRAMING, STRUCTURAL	INFO	INFORMATION	STD	STANDARD
CG	CORNER GUARD	INST	INSTALLATION	STL	STEEL
CI	CONTINUOUS INSULATION	INSUL	INSULATION	STRUCT	STRUCTURAL
CIPC	CAST IN PLACE CONCRETE	INT	INTERIOR	SUSP	SUSPENDED
CJ	CONTROL JOINT	IRWC	IMPACT RESISTANT WALL COVERING	SV	SHEET VINYL
CL	CLOSET	IWB	INTERACTIVE WHITE BOARD	SWM	SECURITY WOVEN MESH / WOVEN ROD
CLG	CEILING	JAN	JANITOR	SYM	SYMMETRICAL
CLR	CLEAR	JCT	JUNCTION	T	TREAD
CM	CENTIMETER	JT	JOINT	T&G	TONGUE & GROOVE
CMBD	CEMENT BOARD	L	LENGTH/LONG	T.O.	TOP OF
CMU	CONCRETE MASONRY UNIT	LAB	LABORATORY	TACKBOARD	TACKBOARD
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL	LAHJ	LOCAL AUTHORITY HAVING JURISDICTION	TEL	TELEPHONE
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE	LAM	LAMINATE	TERR-C	TERRAZZO CEMENTITIOUS
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED	LAV	LAVATORY	TERR-E	TERRAZZO EPOXY
CMU-SPF	CONCRETE MASONRY UNIT - SPLIT FACE	LH	LEFT HAND	TERR-R	TERRAZZO RUBBERIZED
CO	CLEANOUT	LN	LINEUM	THD	THRESHOLD
COL	COLUMN	LKR	LOCKER	THK	THICKNESS, THICK
CONC	CONCRETE	LMC	LINEAR METAL CEILING	TOS	TOP OF STEEL
CONC-P	CONCRETE WITH PIGMENT	LPS	LAMINATE PANEL SYSTEM	TOW	TOP OF WALL
CONC-SLR	CONCRETE WITH SEALER / HARDENER	LT	LIGHT	TS	TACK STRIP
CONC-ST	CONCRETE WITH STAIN	LVR	LOUVER	TV	TELEVISION
CONET	CONSTRUCTION	M	METER	TYP	TYPICAL
CONT	CONTINUOUS	MACH	MACHINE	UC	UNDERCUT
CONTR	CONTRACTOR	MAS	MASONRY	UG	UNDERGROUND
CORR	CORRIDOR	MATL	MATERIAL	UH	UNIT HEATER
CSMU	CAST STONE MASONRY UNIT	MAX	MAXIMUM	UNO	UNLESS NOTED (INDICATED) OTHERWISE
CT	CERAMIC TILE	MB	MARKERBOARD	VAT	VINYL ASBESTOS TILE
CSK	COUNTERSINK, COUNTERSUNK	MCM	METAL COMPOSITE MATERIAL	VB	VAPOR BARRIER
CU FT	CUBIC FEET / FOOT	MCP	METAL CEILING PANEL	VCT	VINYL COMPOSITION TILE
CUST	CUSTODIAN / CUSTODIAL	MDO	MEDIUM DENSITY OVERLAY	VDB	VISUAL DISPLAY BOARD
CW	ALUMINUM CURTAIN WALL	MECH	MECHANICAL	VERT	VERTICAL
CWFD	CEMENTITIOUS WOOD FIBER DECK	MED	MEDIUM	VEST	VESTIBULE
D	DEPTH/DEEP	MEMB	MEMBRANE	VCT	VINYL FREE COMPOSITION TILE
DBL	DOUBLE	MFR	MANUFACTURER	VFWC	VINYL FREE WALLCOVERING
DEMO	DEMOLITION	MIF	MULTICOLOR INTERIOR FINISHING	VR	VAPOR RETARDER
DETE	DETENTION	MIN	MINIMUM	VT	VINYL TILE
DF	DRINKING FOUNTAIN	MIR	MIRROR	VTR	VENT THROUGH ROOF
DS	DOOR GRILLE	MISC	MISCELLANEOUS	VWC	VINYL WALL COVERING
DHM	DETENTION HOLLOW METAL	MLDG	MOLDING	W	WIDE WIDTH
DIA	DIAMETER	MO	MASONRY OPENING	W/	WITH
DIAG	DIAGONAL	MPS	MANUAL PROJECTION SCREEN	W/O	WITHOUT
DIM	DIMENSION	MR	MAP RAIL	WC	WATER CLOSET
DIV	DIVISION	MT	MOUNT	WCP	WOOD CEILING PANEL
DL	DOOR LOUVER	MTD	MOUNTED	WD	WOOD
DN	DOWN	MIL	METAL	WDW	WINDOW
DP	DAMP PROOFING	NA	NOT APPLICABLE	WP	WATERPROOFING
DR	DISPLAY RAIL	NIC	NOT IN CONTRACT	WPT	WORKING POINT
DS	DOWNSPOUT	NO.	NUMBER	WSCOT	WAINSCOT
DBL	DETAIL	NOM	NOMINAL	WSF	WOOD SPORTS FLOORING
DWG	DRAWING	NRC	NOISE REDUCTION COEFFICIENT	WT	WEIGHT
DWR	DRAWER	NRS	NOT TO SCALE	WWF	WELDED WIRE FABRIC
EA	EACH	NCC	ON CENTER	XPS	EXTRUDED POLYSTYRENE
EF	EXHAUST FAN	OD	OUTSIDE DIAMETER		
EPS	EXTERIOR FINISH SYSTEM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
EPS	EXTERIOR INSULATION & FINISH SYSTEM	OPNG	OPENING		
EJ	EXPANSION JOINT	OPPHD	OPPOSITE HAND		
EL	ELEVATION	OVHD	OVERHEAD		
ELAS	ELASTOMERIC	P-TILE	PORCELAIN TILE		
ELEC	ELECTRICAL	PC	PRECAST		
ELEV	ELEVATOR	PERF	PERFORATED, PERFORATION(S)		
EMER	EMERGENCY	PERIM	PERIMETER		
EPS	EXPANDED POLYSTYRENE	PIP	POURED IN PLACE		
EPX	EPOXY	PLAM	PLASTIC LAMINATE		
EQ	EQUAL	PLAS	PLASTER		
EQUIP	EQUIPMENT	PLWD	PLASTIC LAMINATE WOOD		
ETR	EXISTING TO REMAIN	PLYWD	PLYWOOD		
CWC	ELECTRIC WATER COOLER	PNL	PANEL PANELING		
EX	EXISTING	POLY	POLYETHYLENE		
EXH	EXHAUST	PPS	POWER PROJECTION SCREEN		
EXP	EXPANSION	PPT	PRESSURE-OR PRESERVATIVE-TREATED		
EXPC	EXPOSED CONSTRUCTION	PR	PAIR		
EXT	EXTERIOR	PREFAB	PREFABRICATED		
FAAF	FLUID APPLIED ATHLETIC FLOORING	PREFIN	PREFINISHED		
FD	FLOOR DRAIN	PREP	PREPARE / PREPARATION		
FE	FIRE EXTINGUISHER	PS	PROJECTION SCREEN		
FEB	FIRE EXTINGUISHER BRACKET	PSB	PENCIL SHARPENER BLOCK		
FEC	FIRE EXTINGUISHER CABINET	PSF	POUNDS PER SQUARE FOOT		
FF	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH		
FGL	FIBERGLASS	PT	PAINT		
FH	FIRE HYDRANT	PTN	PARTITION		
FHC	FIRE HOSE CABINET	PIS	PNEUMATIC TUBE SYSTEM		
FHV	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE		
FN	FINISHED	PVMT	PAVEMENT		
FLR	FLOOR	PVWC	PERFORATED VINYL WALL COVERING		
FLRG	FLOORING	QSM	QUARTZ SURFACING MATERIAL		
FND	FOUNDATION	QT	QUARRY TILE		
FO	FACE OF	QTY	QUANTITY		
FRM	FRAME	R	RISER, RADIUS		
FRP	FIBERGLASS REINFORCED PLASTIC	R/W	RIGHT OF WAY		
FRT	FIRE RETARDANT TREATED	RAD	RADIUS		
FT	FOOT, FEET	RAF	RESILIENT ATHLETIC FLOORING		
FIG	FOOTING	RB	RESILIENT BASE		

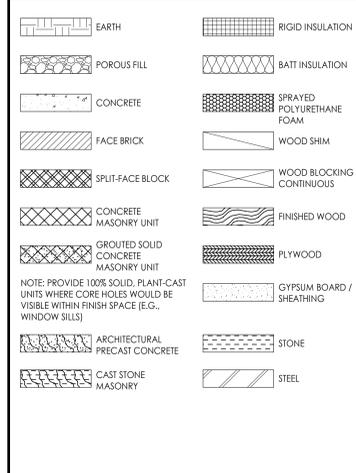
ARCHITECTURAL GRAPHIC SYMBOLS LEGEND



ARCHITECTURAL GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL, IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY, IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, ELECTRICAL, PLUMBING, FIRE PROTECTION, MECHANICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULT (E.G., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.
- ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGEND (E.G., FACE BRICK, CMU, WINDOWS).
- REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (E.G., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES.) ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATIONS WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.
- VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRE TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS WITH 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS



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PROJECT NUMBER: 22111
 CONSULTANT:

PROJECT INFORMATION:

**WALKER GYMNASIUM
 ELEVATOR
 MODIFICATION**

1450 S Alston Ave, Durham, NC 27707

SCO PROJECT NO: 23-26020-01A
 ISSUE DATE: 05/04/23
 PHASE: BID SET

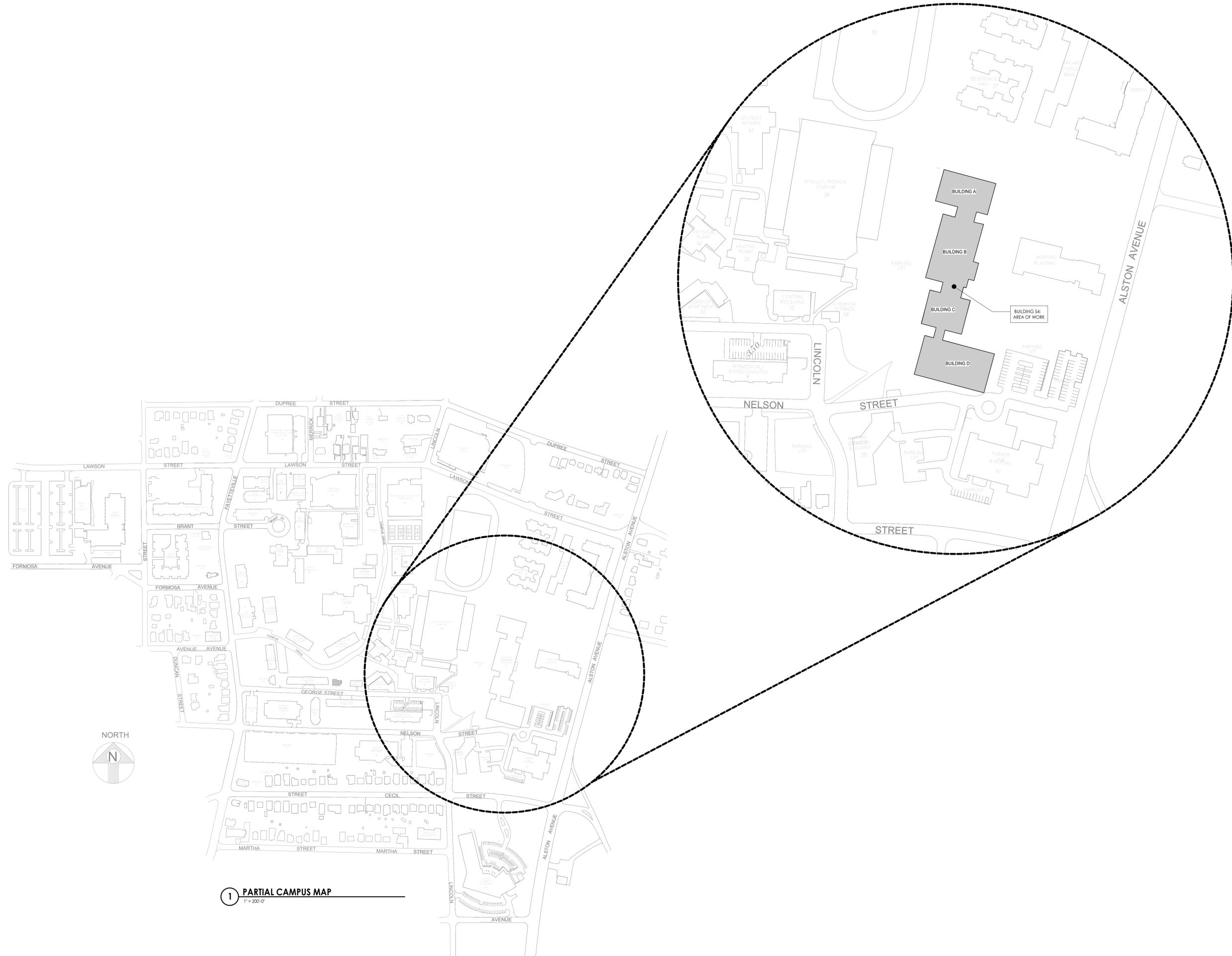
REVISIONS

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**DRAWING NAME
 GENERAL
 ARCHITECTURAL
 INFORMATION**

DRAWING NO. **A001**
 Drawn By: HM Checked By: JMM



1 PARTIAL CAMPUS MAP
1" = 200'-0"



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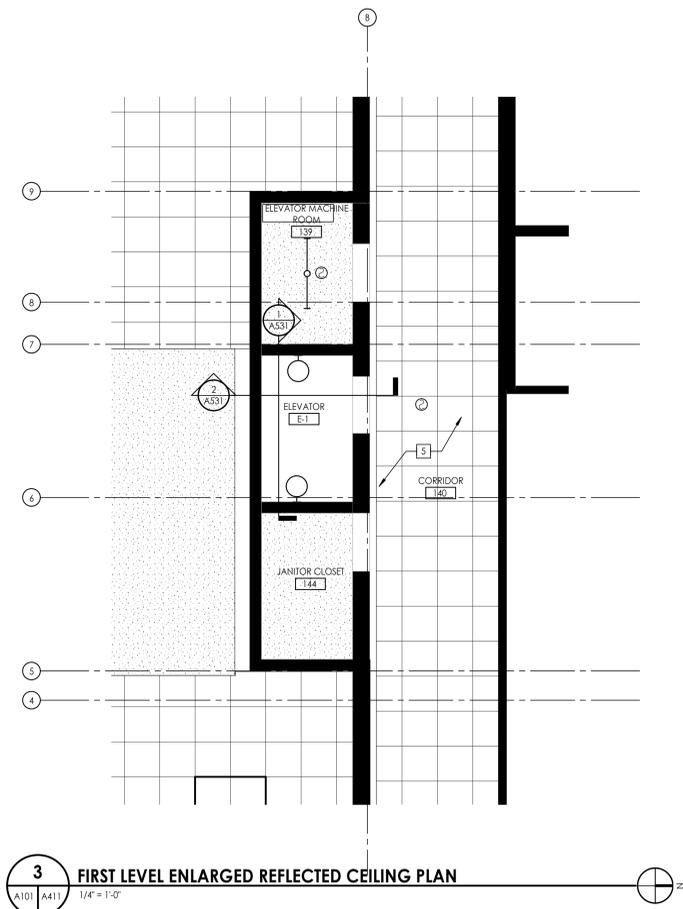
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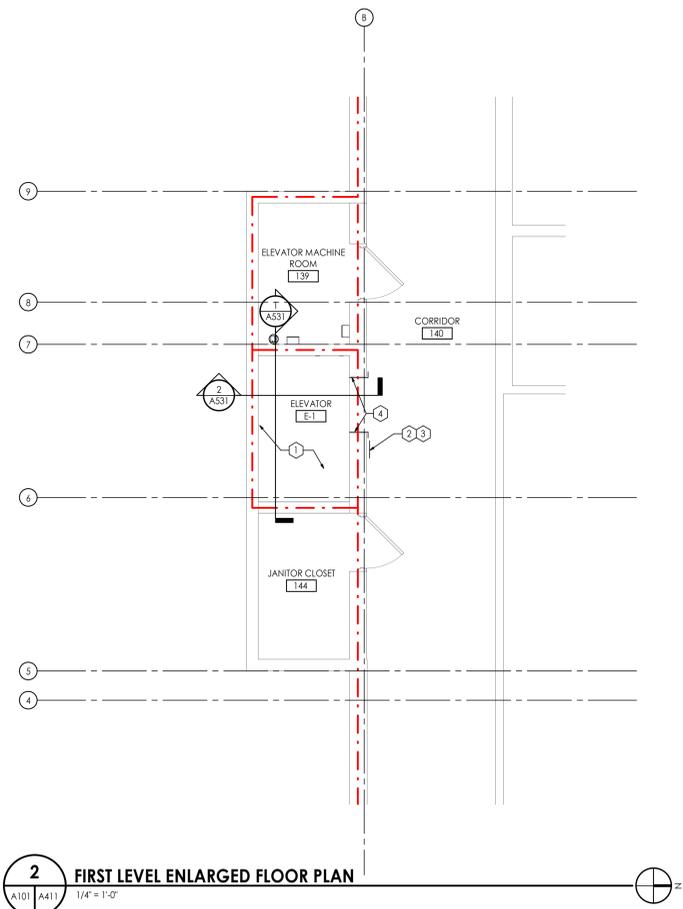
DRAWING NAME
ARCHITECTURAL SITE PLAN

DRAWING NO.
A100

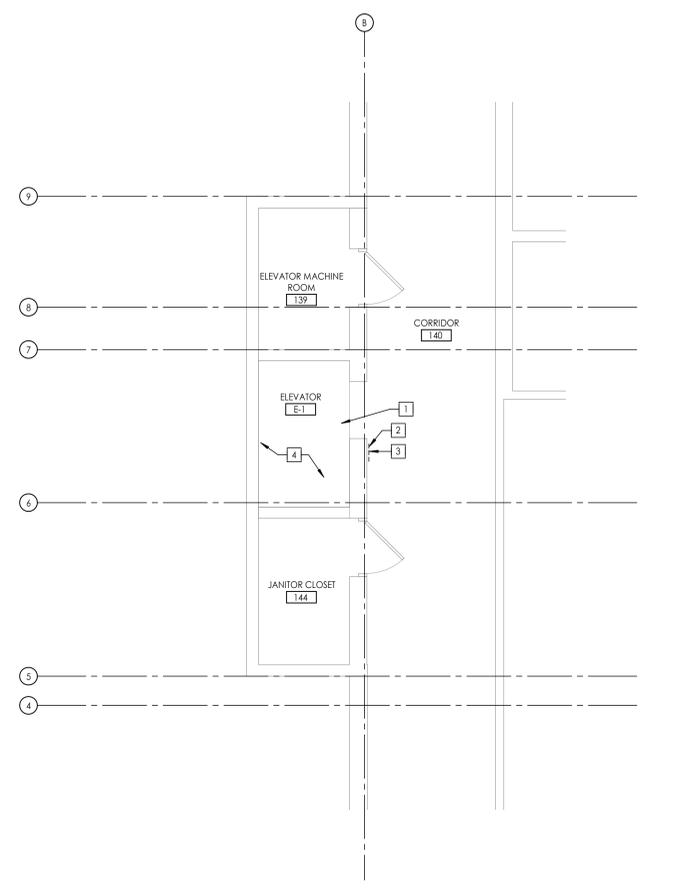
Drawn By: HM Checked By: JMM



3 FIRST LEVEL ENLARGED REFLECTED CEILING PLAN
A101 | A411 | 1/4" = 1'-0"



2 FIRST LEVEL ENLARGED FLOOR PLAN
A101 | A411 | 1/4" = 1'-0"



1 FIRST LEVEL ENLARGED DEMOLITION PLAN
A101 | A411 | 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. ALL NCCU STANDARD PRACTICES SHALL BE STRICTLY ADHERED TO BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND FINISHES PRIOR TO SUBMITTING A BID AND START OF ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR VALUATION BEFORE SUBMITTING A BID OR CONTINUING WITH WORK.
- C. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF WORK. CONDITIONS THAT PROHIBIT THE WORK FROM BEING PERFORMED AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR EVALUATION BEFORE CONTINUING WORK.
- D. VERIFY WITH THE OWNER PRIOR TO THE START OF WORK THE EXTENT OF DEMOLITION ITEMS TO BE SALVAGED. ALL DEMOLITION IS TO BE LIMITED TO THE EXTENT REQUIRED FOR NEW WORK. ALL UNUSED ITEMS SHALL BE DEMOLISHED AND REMOVED RATHER THAN ABANDONED IN PLACE. PROTECT ALL ITEMS AND EXISTING SURFACES TO REMAIN FROM DAMAGE AS REQUIRED.
- E. CONTRACTOR SHALL OFFER OWNER FIRST RIGHT OF REFUSAL FOR ALL SALVAGEABLE ITEMS NOT SCHEDULED FOR REUSE.
- F. ITEMS NOT BEING SALVAGED SHALL BE TRANSPORTED AND DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES. CONTRACTORS SHALL RETAIN ALL DISPOSAL RECORDS.
- G. REFER TO SPECIFICATIONS FOR DEMOLITION REQUIREMENTS. UTILITY DISRUPTIONS AND WORK HOURS.
- H. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ITEMS TO REMAIN AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
- I. CLEAN AND PREPARE EXISTING SURFACES/SUBSTRATES TO REMAIN AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES PER MANUFACTURER'S RECOMMENDATIONS AND CONTRACT DOCUMENTS.
- J. PERFORM DEMOLITION WORK IN A MANNER SO AS TO MINIMIZE DAMAGE TO EXISTING SURROUNDING ITEMS TO REMAIN. ANY ADJACENT SURFACE THAT IS DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED, REPAIRED, PRIMED, PAINTED, ETC. TO MATCH EXISTING ADJACENT SURFACES. ALL GYPSUM BOARD FINISH SURFACES SHALL HAVE A MINIMUM OF LEVEL 4 FINISH.
- K. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS REQUIRED BY THE CURRENT NC BUILDING CODE. USE UL DETAILS INCLUDED IN THE CONTRACT DOCUMENTS. SHOULD THE G.C. DISCOVER CONCEALED CONDITIONS WHICH ARE NOT CORRECTLY ADDRESSED, THOSE ITEMS SHALL BE DOCUMENTED AND SEALED USING A UL LISTED METHOD APPROPRIATE TO THE RATING.
- L. SELECTED DEMOLITION SHALL INCLUDE AND NOT BE LIMITED TO ITEMS DASHED ON DEMOLITION DRAWINGS AND AS NOTED IN KEYED DEMOLITION NOTES.
- M. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THAT NEW OPENINGS, PENETRATIONS AND DEMOLITION DO NOT CONFLICT WITH EXISTING STRUCTURES TO REMAIN. NOTIFY ARCHITECT IMMEDIATELY OF ANY POTENTIAL CONFLICTS PRIOR TO COMMENCING DEMOLITION. ADJUST LOCATIONS OF NEW PENETRATIONS AND DEMOLITION AS AGREED UPON WITH ARCHITECT.
- N. RECENT PRIOR RENOVATIONS TO THE BUILDING INCLUDED ABATEMENT OF HAZARDOUS MATERIALS PRESENT IN THE WORK AREA. SHOULD THE GENERAL CONTRACTOR ENCOUNTER A CONCEALED OR HIDDEN CONDITION THAT REQUIRES TESTING AND ABATEMENT, THE GENERAL CONTRACTOR SHALL SUSPEND WORK WITHIN THE AFFECTED AREA AND NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY. SUCH CONCEALED OR HIDDEN CONDITIONS FOUND DURING CONSTRUCTION THAT REQUIRE TESTING AND ABATEMENT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- O. SEE SHEET G002 FOR COMPOSITE FLOOR PLANS.
- P. DIMENSIONS GIVEN BETWEEN EXISTING BUILDING ELEMENTS TO REMAIN ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.

FLOOR PLAN DEMOLITION NOTES

- A. SEE PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION, CIVIL AND STRUCTURAL DRAWINGS FOR RELATED WORK AND ADDITIONAL REQUIREMENTS.
- B. DIMENSIONS ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR FACE OF METAL STUD, UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS, INCLUDING DIMENSIONAL DISCREPANCIES.
- C. COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS AND CONFIRM REQUIRED ROUGH-IN CLEARANCES FOR INSTALLATION, USE, AND MAINTENANCE.
- D. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING ELEVATOR SHAFT WALLS TO COMPLY WITH UL DETAIL LISTED IN CODE SUMMARY.
- E. FIRESTOP ALL EXISTING AND NEW PENETRATIONS THROUGH SHAFT WALLS AT FLOORS ROOF.
- F. ALL EXISTING FIRE-RATED ASSEMBLIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED.
- G. ALL EXISTING FIRE PROTECTION SYSTEMS ARE ASSUMED TO BE INTACT AND IN COMPLIANCE WITH CURRENT CODE REQUIREMENTS. PRE-EXISTING CONDITIONS FOUND WITHIN THE WORK AREA THAT ARE NOT IN COMPLIANCE SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- H. ALL TRANSITIONS BETWEEN FIRE-RATED ASSEMBLIES SHALL BE CONTINUOUS AND MAINTAIN ALL REQUIRED RATINGS PER APPLICABLE UL DETAILS.

WALL RATING LEGEND

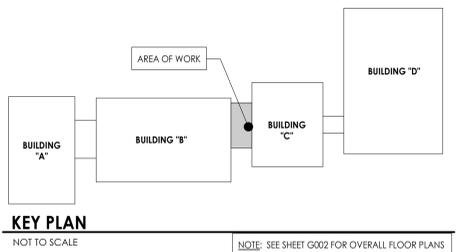
- 3A2N-1 - PARTITION TYPE TAG - SEE SHEET A003
- WALL OR PARTITION, NO FIRE RESISTANCE RATING
- EXISTING WALL OR PARTITION TO REMAIN, 1-HOUR FIRE-RESISTANCE RATING
- EXISTING WALL OR PARTITION TO REMAIN, 2-HOUR FIRE-RESISTANCE RATING

DEMOLITION KEYNOTES

- 1. DEMOLISH EXISTING DOOR AND FRAME.
- 2. REMOVE EXISTING ELEVATOR PANELS, SIGNALS AND BUTTONS.
- 3. REMOVE EXISTING ELEVATOR SIGNS.
- 4. REMOVE EXISTING COMPONENTS IN THE HOISTWAY AS INDICATED IN THE SPECIFICATIONS.
- 5. SEE SPECIFICATIONS FOR INFORMATION ON WORK IN THE ELEVATOR MACHINE ROOM.

NEW WORK KEYNOTES

- 1. NEW ELEVATOR, ELEVATOR CAB AND FINISHES. REFER TO SPECIFICATIONS SECTION 14.2400 - HYDRAULIC ELEVATOR MODERNIZATION FOR ADDITIONAL INFORMATION.
- 2. NEW ELEVATOR CONTROL PANEL AND SIGNALS.
- 3. NEW ELEVATOR SIGN.
- 4. PREPARE WALL TO RECEIVE NEW FINISHES. TRIM AND PAINT TO MATCH EXISTING FINISHES.
- 5. ELEVATOR PIT LADDER.
- 6. NEW JACK ASSEMBLY. REFER TO ELEVATOR SPECIFICATIONS.



KEY PLAN
NOT TO SCALE

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NC Firm License No. C-0819

NORTH CAROLINA CENTRAL UNIVERSITY
FOUNDED 1910

PROJECT NUMBER: 22111
CONSULTANT:

PROJECT INFORMATION:

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

1450 S Alston Ave, Durham, NC 27707

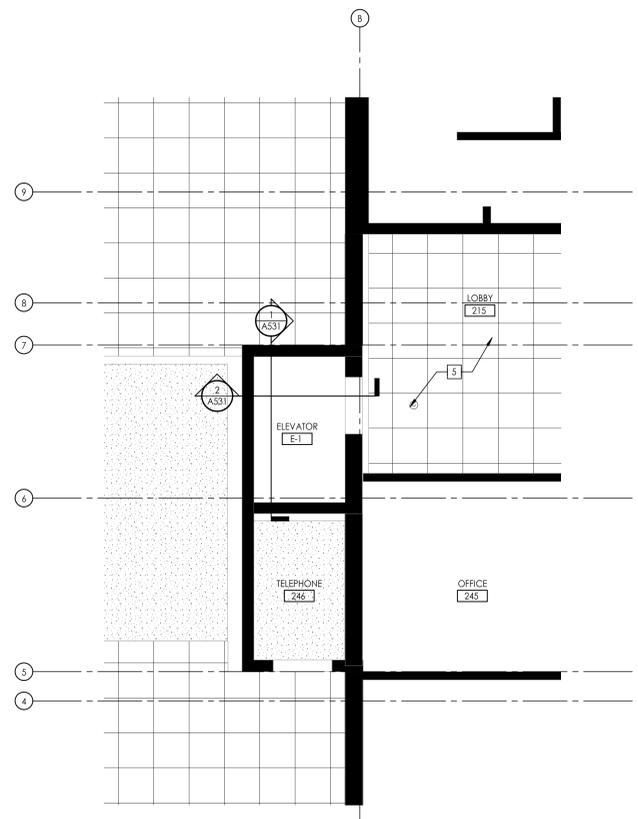
SCO PROJECT NO: 23-26020-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

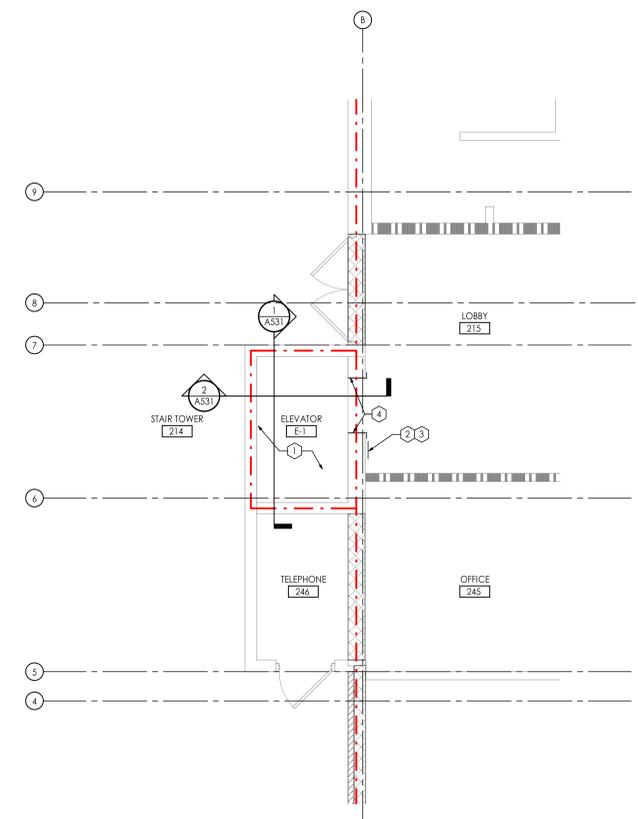
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DRAWING NAME
**FIRST LEVEL
ENLARGED FLOOR
PLANS**

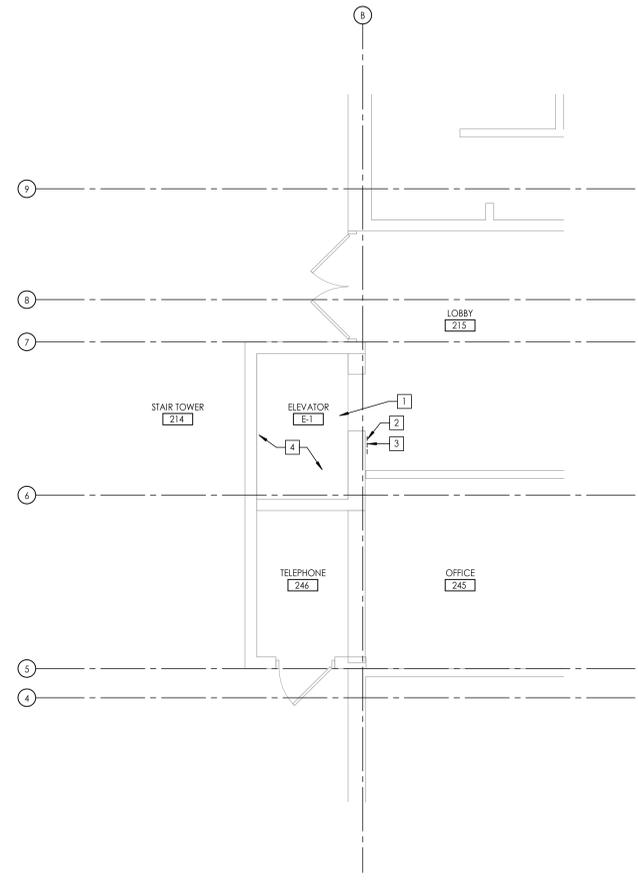
DRAWING NO.
A411
Drawn By: HM Checked By: JMM



2 SECOND LEVEL ENLARGED REFLECTED CEILING PLAN
 A101 A412 1/4" = 1'-0"



3 SECOND LEVEL ENLARGED FLOOR PLAN
 A101 A412 1/4" = 1'-0"



1 SECOND LEVEL ENLARGED DEMOLITION PLAN
 A531 A412 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. ALL NCCU STANDARD PRACTICES SHALL BE STRICTLY ADHERED TO BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND FINISHES PRIOR TO SUBMITTING A BID AND START OF ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR VALUATION BEFORE SUBMITTING A BID OR CONTINUING WITH WORK.
- C. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF WORK. CONDITIONS THAT PROHIBIT THE WORK FROM BEING PERFORMED AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR EVALUATION BEFORE CONTINUING WORK.
- D. VERIFY WITH THE OWNER PRIOR TO THE START OF WORK THE EXTENT OF DEMOLITION ITEMS TO BE SALVAGED. ALL DEMOLITION IS TO BE LIMITED TO THE EXTENT REQUIRED FOR NEW WORK. ALL UNUSED ITEMS SHALL BE DEMOLISHED AND REMOVED RATHER THAN ABANDONED IN PLACE. PROTECT ALL ITEMS AND EXISTING SURFACES TO REMAIN FROM DAMAGE AS REQUIRED.
- E. CONTRACTOR SHALL OFFER OWNER FIRST RIGHT OF REFUSAL FOR ALL SALVAGEABLE ITEMS NOT SCHEDULED FOR REUSE.
- F. ITEMS NOT BEING SALVAGED SHALL BE TRANSPORTED AND DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES. CONTRACTORS SHALL RETAIN ALL DISPOSAL RECORDS.
- G. REFER TO SPECIFICATIONS FOR DEMOLITION REQUIREMENTS, UTILITY DISRUPTIONS, AND WORK HOURS.
- H. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ITEMS TO REMAIN AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
- I. CLEAN AND PREPARE EXISTING SURFACES/SUBSTRATES TO REMAIN AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES PER MANUFACTURER'S RECOMMENDATIONS AND CONTRACT DOCUMENTS.
- J. PERFORM DEMOLITION WORK IN A MANNER SO AS TO MINIMIZE DAMAGE TO EXISTING SURROUNDING ITEMS TO REMAIN. ANY ADJACENT SURFACE THAT IS DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED, REPAIRED, PRIME, PAINTED, ETC. TO MATCH EXISTING ADJACENT SURFACES. ALL GYPSUM BOARD FINISH SURFACES SHALL HAVE A MINIMUM OF LEVEL 4 FINISH.
- K. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS REQUIRED BY THE CURRENT NC BUILDING CODE. USE UL DETAILS INCLUDED IN THE CONTRACT DOCUMENTS. SHOULD THE G.C. DISCOVER CONCEALED CONDITIONS WHICH ARE NOT CORRECTLY ADDRESSED, THOSE ITEMS SHALL BE DOCUMENTED AND SEALS USING A UL LISTED METHOD APPROPRIATE TO THE RATING.
- L. SELECTED DEMOLITION SHALL INCLUDE AND NOT BE LIMITED TO ITEMS DASHED ON DEMOLITION DRAWINGS AND AS NOTED IN KEYED DEMOLITION NOTES.
- M. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THAT NEW OPENINGS, PENETRATIONS AND DEMOLITION DO NOT CONFLICT WITH EXISTING STRUCTURES TO REMAIN. NOTIFY ARCHITECT IMMEDIATELY OF ANY POTENTIAL CONFLICTS PRIOR TO COMMENCING DEMOLITION. ADJUST LOCATIONS OF NEW PENETRATIONS AND DEMOLITION AS AGREED UPON WITH ARCHITECT.
- N. RECENT PRIOR RENOVATIONS TO THE BUILDING INCLUDED ABATEMENT OF HAZARDOUS MATERIALS PRESENT IN THE WORK AREA. SHOULD THE GENERAL CONTRACTOR ENCOUNTER A CONCEALED OR HIDDEN CONDITION THAT REQUIRES TESTING AND ABATEMENT, THE GENERAL CONTRACTOR SHALL SUSPEND WORK WITHIN THE AFFECTED AREA AND NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY. SUCH CONCEALED OR HIDDEN CONDITIONS FOUND DURING CONSTRUCTION THAT REQUIRE TESTING AND ABATEMENT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- O. SEE SHEET G002 FOR COMPOSITE FLOOR PLANS.
- P. DIMENSIONS GIVEN BETWEEN EXISTING BUILDING ELEMENTS TO REMAIN ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.

FLOOR PLAN DEMOLITION NOTES

- A. SEE PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION, CIVIL AND STRUCTURAL DRAWINGS FOR RELATED WORK AND ADDITIONAL REQUIREMENTS.
- B. DIMENSIONS ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR FACE OF METAL STUD, UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS, INCLUDING DIMENSIONAL DISCREPANCIES.
- C. COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS AND CONFIRM REQUIRED ROUGH-IN CLEARANCES FOR INSTALLATION, USE, AND MAINTENANCE.
- D. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING ELEVATOR SHAFT WALLS TO COMPLY WITH UL DETAIL LISTED IN CODE SUMMARY.
- E. FIRESTOP ALL EXISTING AND NEW PENETRATIONS THROUGH SHAFT WALLS AT FLOORS ROOF.
- F. ALL EXISTING FIRE-RATED ASSEMBLIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED.
- G. ALL EXISTING FIRE PROTECTION SYSTEMS ARE ASSUMED TO BE INTACT AND IN COMPLIANCE WITH CURRENT CODE REQUIREMENTS. PRE-EXISTING CONDITIONS FOUND WITHIN THE WORK AREA THAT ARE NOT IN COMPLIANCE SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- H. ALL TRANSITIONS BETWEEN FIRE-RATED ASSEMBLIES SHALL BE CONTINUOUS AND MAINTAIN ALL REQUIRED RATINGS PER APPLICABLE UL DETAILS.

WALL RATING LEGEND

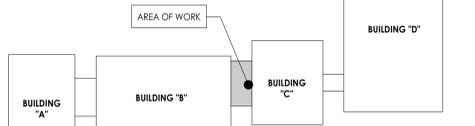
- 3A2N-1 - PARTITION TYPE TAG - SEE SHEET A003
- WALL OR PARTITION, NO FIRE RESISTANCE RATING
- - - EXISTING WALL OR PARTITION TO REMAIN, 1-HOUR FIRE-RESISTANCE RATING
- EXISTING WALL OR PARTITION TO REMAIN, 2-HOUR FIRE-RESISTANCE RATING

DEMOLITION KEYNOTES

- 1. REMOVE EXISTING ELEVATOR FRAME.
- 2. REMOVE EXISTING ELEVATOR SIGNS, SIGNALS AND BUTTONS.
- 3. REMOVE EXISTING ELEVATOR SIGNS.
- 4. REMOVE EXISTING COMPONENTS IN THE HOISTWAY AS INDICATED IN THE SPECIFICATIONS.
- 5. SEE SPECIFICATIONS FOR INFORMATION ON WORK IN THE ELEVATOR MACHINE ROOM.

NEW WORK KEYNOTES

- 1. NEW ELEVATOR, ELEVATOR CAB AND FINISHES. REFER TO SPECIFICATIONS SECTION 14 2400 - HYDRAULIC ELEVATOR MODERNIZATION FOR ADDITIONAL INFORMATION.
- 2. NEW ELEVATOR CONTROL PANEL AND SIGNALS.
- 3. NEW ELEVATOR SIGN.
- 4. PREPARE WALL TO RECEIVE NEW FINISHES. TRIM AND PAINT TO MATCH EXISTING FINISHES.
- 5. ELEVATOR PIT LADDER.
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KEY PLAN
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 CONSULTANT:

PROJECT INFORMATION:

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 ELEVATOR
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1450 S Alston Ave, Durham, NC 27707

SCO PROJECT NO: 23-26020-01A
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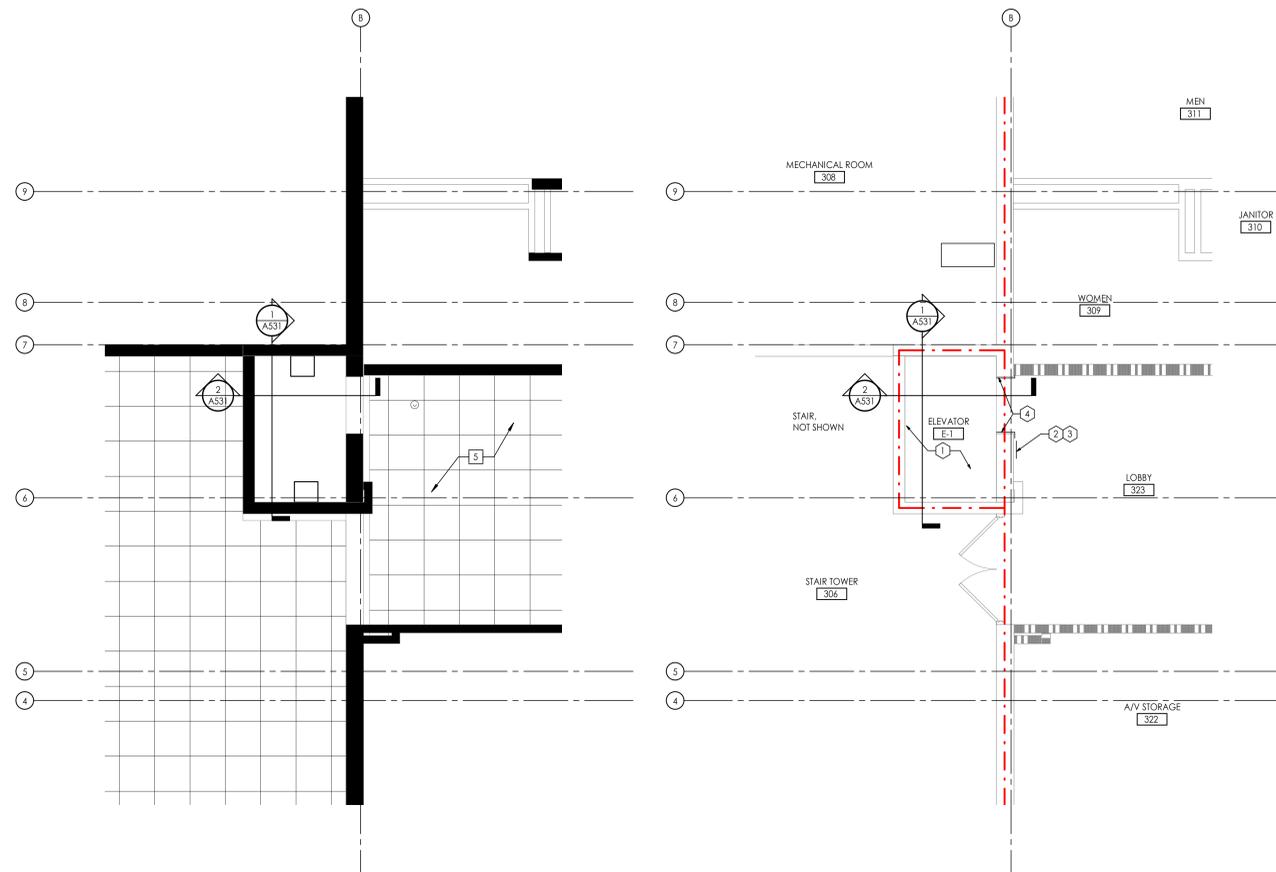
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NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME
**SECOND LEVEL
 ENLARGED FLOOR
 PLANS**

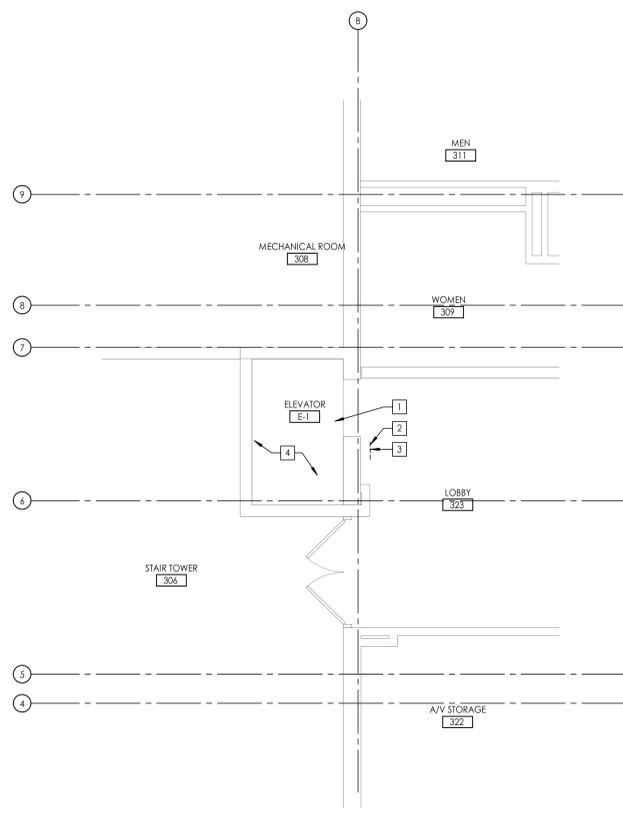
DRAWING NO.
A412

Drawn By: HM Checked By: JMM



3 THIRD LEVEL ENLARGED REFLECTED CEILING PLAN
 A101 A413 1/4" = 1'-0"

2 THIRD LEVEL ENLARGED FLOOR PLAN
 A101 A413 1/4" = 1'-0"



1 THIRD LEVEL ENLARGED DEMOLITION PLAN
 A531 A413 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. ALL NCCU STANDARD PRACTICES SHALL BE STRICTLY ADHERED TO BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND FINISHES PRIOR TO SUBMITTING A BID AND START OF ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR VALUATION BEFORE SUBMITTING A BID OR CONTINUING WITH WORK.
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- E. CONTRACTOR SHALL OFFER OWNER FIRST RIGHT OF REFUSAL FOR ALL SALVAGEABLE ITEMS NOT SCHEDULED FOR REUSE.
- F. ITEMS NOT BEING SALVAGED SHALL BE TRANSPORTED AND DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES. CONTRACTORS SHALL RETAIN ALL DISPOSAL RECORDS.
- G. REFER TO SPECIFICATIONS FOR DEMOLITION REQUIREMENTS, UTILITY DISRUPTIONS, AND WORK HOURS.
- H. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ITEMS TO REMAIN AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
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- N. RECENT PRIOR RENOVATIONS TO THE BUILDING INCLUDED ABATEMENT OF HAZARDOUS MATERIALS. IT IS ASSUMED THAT THERE WILL BE NO HAZARDOUS MATERIALS PRESENT IN THE WORK AREA. SHOULD THE GENERAL CONTRACTOR ENCOUNTER A CONCEALED OR HIDDEN CONDITION THAT REQUIRES TESTING AND ABATEMENT, THE GENERAL CONTRACTOR SHALL SUSPEND WORK WITHIN THE AFFECTED AREA AND NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY. SUCH CONCEALED OR HIDDEN CONDITIONS FOUND DURING CONSTRUCTION THAT REQUIRE TESTING AND ABATEMENT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- O. SEE SHEET G002 FOR COMPOSITE FLOOR PLANS.
- P. DIMENSIONS GIVEN BETWEEN EXISTING BUILDING ELEMENTS TO REMAIN ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.

FLOOR PLAN DEMOLITION NOTES

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- E. FIRESTOP ALL EXISTING AND NEW PENETRATIONS THROUGH SHAFT WALLS AT FLOORS ROOF.
- F. ALL EXISTING FIRE-RATED ASSEMBLIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED.
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WALL RATING LEGEND

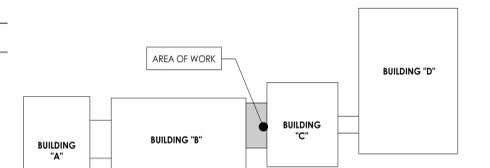
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DEMOLITION KEYNOTES

- 1. DEMOLISH EXISTING DOOR AND FRAME.
- 2. REMOVE EXISTING ELEVATOR PANELS, SIGNALS AND BUTTONS.
- 3. REMOVE EXISTING ELEVATOR SIGNS.
- 4. REMOVE EXISTING COMPONENTS IN THE HOISTWAY AS INDICATED IN THE SPECIFICATIONS.
- 5. SEE SPECIFICATIONS FOR INFORMATION ON WORK IN THE ELEVATOR MACHINE ROOM.

NEW WORK KEYNOTES

- 1. NEW ELEVATOR, ELEVATOR CAB AND FINISHES. REFER TO SPECIFICATIONS SECTION 14 2400 - HYDRAULIC ELEVATOR MODERNIZATION FOR ADDITIONAL INFORMATION.
- 2. NEW ELEVATOR CONTROL PANEL AND SIGNALS.
- 3. NEW ELEVATOR SIGN.
- 4. PREPARE WALL TO RECEIVE NEW FINISHES. TRIM AND PAINT TO MATCH EXISTING FINISHES.
- 5. ELEVATOR PIT LADDER.
- 6. NEW JACK ASSEMBLY. REFER TO ELEVATOR SPECIFICATIONS.



KEY PLAN
 NOT TO SCALE
 NOTE: SEE SHEET G002 FOR OVERALL FLOOR PLANS



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PROJECT NUMBER: 22111
 CONSULTANT

PROJECT INFORMATION:

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 ELEVATOR
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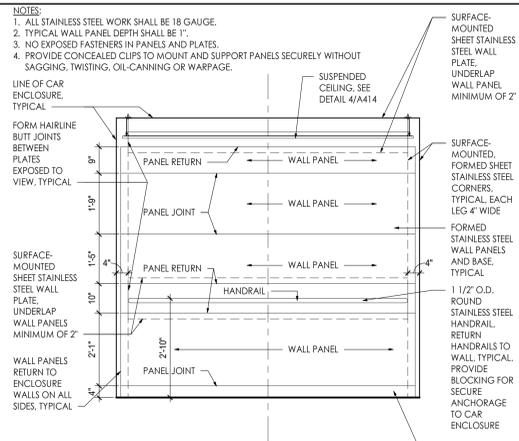
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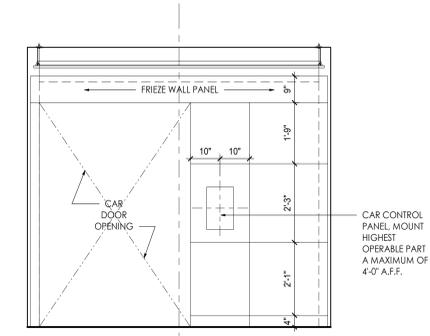
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DRAWING NAME
**THIRD LEVEL
 ENLARGED FLOOR
 PLANS**

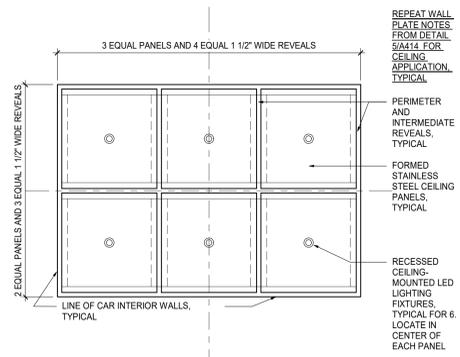
DRAWING NO.
A413
 Drawn By: HM Checked By: JMM



6 CAR REAR ELEVATION
 1/2" = 1'-0"

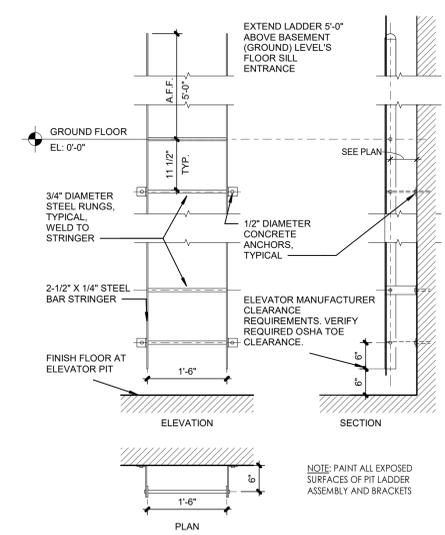


5 CAR FRONT ELEVATION
 1/2" = 1'-0"

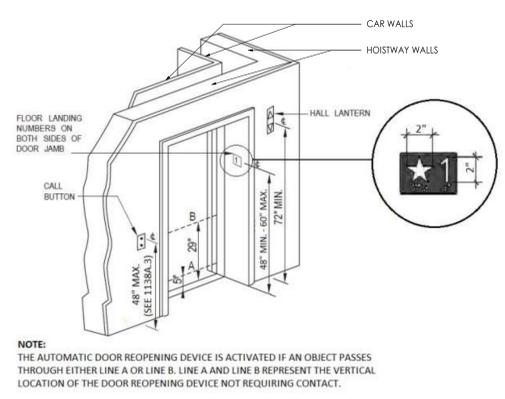


4 CAR REFLECTED CEILING PLAN
 1/2" = 1'-0"

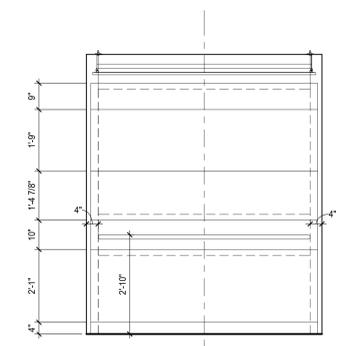
ELEVATOR MATERIAL AND FINISH SCHEDULE	
ELEVATOR CAR	
FLOOR:	RESILIENT TILE FLOORING FOR COMMERCIAL TRAFFIC NORAPLAN SENTICA, 3.0MM THICKNESS, COLOR: MOUNTAIN AIR 6526
BASE:	STAINLESS STEEL
WALLS:	STAINLESS STEEL
CEILING:	STAINLESS STEEL
HANDRAILS:	STAINLESS STEEL
CAR THRESHOLD:	STAINLESS STEEL
DOOR PANELS:	STAINLESS STEEL
CAR POSITION INDICATOR:	STAINLESS STEEL
CAR OPERATING PANEL:	STAINLESS STEEL
HOISTWAY	
DOOR PANELS:	STAINLESS STEEL
DOOR FRAME CLADDING:	STAINLESS STEEL
HALL PUSH BUTTON FIXTURES:	STAINLESS STEEL
HALL POSITION INDICATORS/DIRECTION ARROWS:	STAINLESS STEEL
NOTES:	
1. STAINLESS STEEL SHALL BE MANUFACTURER'S STANDARD THICKNESS FOR THE LOCATIONS INDICATED, WITH TYPE 304 WITH NO. 4 FINISH.	
2. SEE SPECIFICATION SECTION 142400 FOR ADDITIONAL ELEVATOR INFORMATION.	



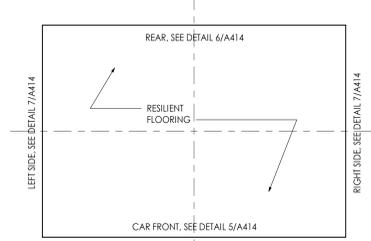
2 PIT LADDER DETAILS
 3/4" = 1'-0"



1 HOISTWAY ENTRANCE ISOMETRIC
 1/2" = 1'-0"



7 CAR LEFT AND RIGHT ELEVATIONS
 1/2" = 1'-0"



3 CAR FLOOR FINISH PLAN
 1/2" = 1'-0"

NOTES:
 1. CAR PLATFORM AND CAR SHELL SHALL BE SALVAGED FOR REUSE AS INDICATED IN SPECIFICATION SECTION 142400. FIELD-MEASURE BOTH AND PREPARE SHOP DRAWINGS FOR REVIEW BASED ON DETAILS PROVIDED ON THIS SHEET.
 2. SEE DETAIL 4/A414 FOR REFLECTED CEILING PLAN.

SEALS

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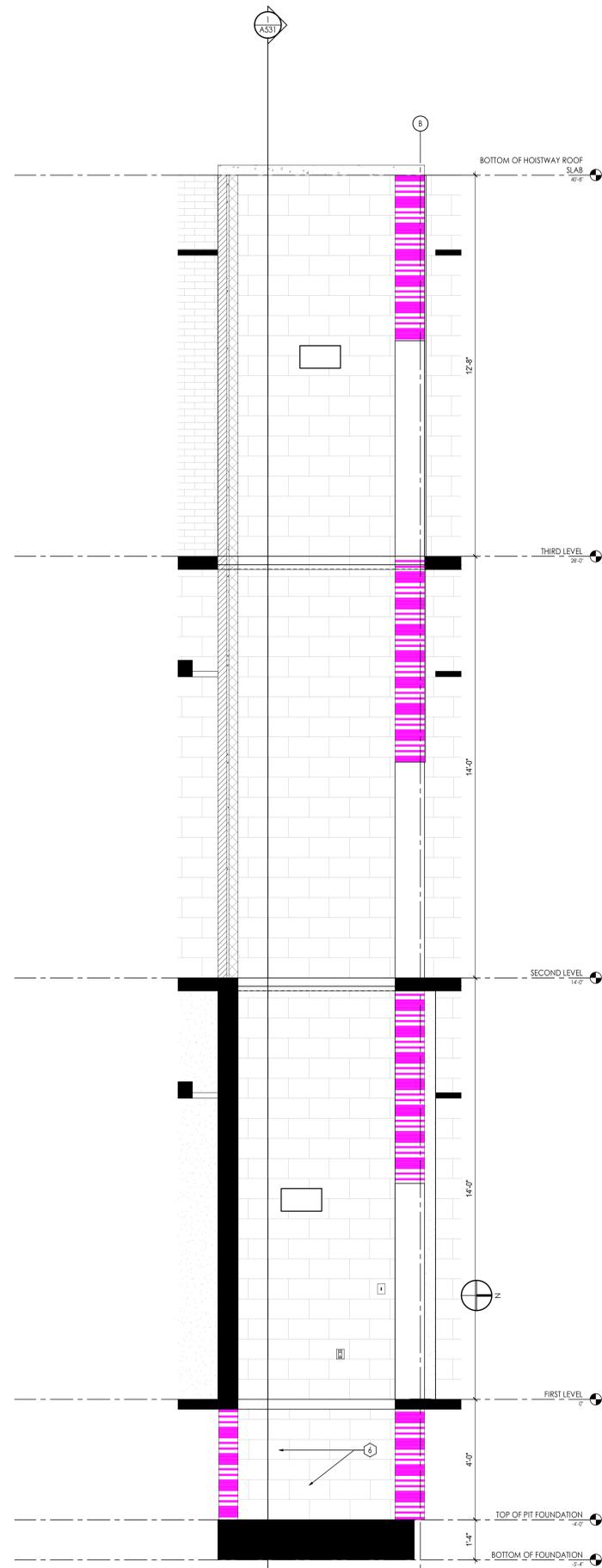
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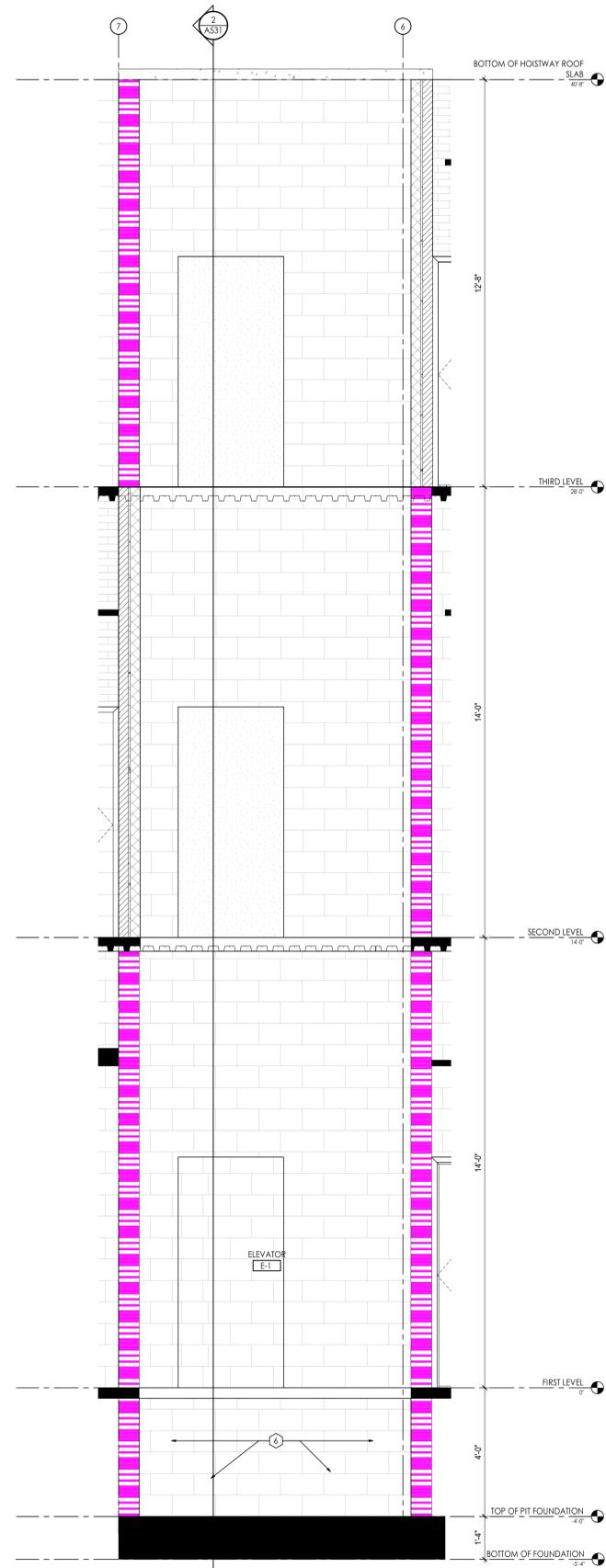
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DRAWING NAME
 HOISTWAY ENTRANCE, PIT LADDER AND ELEVATOR CAR DETAILS

DRAWING NO. **A414**
 Drawn By: HM Checked By: JMM



2 HOISTWAY SECTION LOOKING WEST
A411 | A531 | 1/2" = 1'-0"



1 HOISTWAY SECTION LOOKING NORTH
A411 | A531 | 1/2" = 1'-0"

- DEMOLITION KEYNOTES**
1. DEMOLISH EXISTING DOOR AND FRAME.
 2. REMOVE EXISTING ELEVATOR PANELS, SIGNALS AND BUTTONS.
 3. REMOVE EXISTING ELEVATOR SIGNS.
 4. REMOVE EXISTING COMPONENTS IN THE HOISTWAY AS INDICATED IN THE SPECIFICATIONS.
 5. SEE SPECIFICATIONS FOR INFORMATION ON WORK IN THE ELEVATOR MACHINE ROOM.
- NEW WORK KEYNOTES**
1. NEW ELEVATOR, ELEVATOR CAB AND FINISHES. REFER TO SPECIFICATIONS SECTION 14 2400 - HYDRAULIC ELEVATOR MODERNIZATION FOR ADDITIONAL INFORMATION.
 2. NEW ELEVATOR CONTROL PANEL AND SIGNALS.
 3. NEW ELEVATOR SIGN.
 4. PREPARE WALL TO RECEIVE NEW FINISHES. TRIM AND PAINT TO MATCH EXISTING FINISHES.
 5. ELEVATOR PIT LADDER.
 6. NEW JACK ASSEMBLY, REFER TO ELEVATOR SPECIFICATIONS.
- HOISTWAY SECTION GENERAL NOTES**
1. MAJOR ELEVATOR COMPONENTS NOT SHOWN FOR CLARITY. SEE SPECIFICATION SECTION 142400 FOR MORE INFORMATION, INCLUDING EQUIPMENT SCHEDULES INDICATING EXISTING BUILDING-MOUNTED ELEVATOR ASSEMBLY COMPONENTS TO REMAIN, FOR REUSE.
 2. SEE SHEET A414 FOR ELEVATOR CAR INTERIOR DETAILS.

SEALS

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NORTH CAROLINA CENTRAL UNIVERSITY
FOUNDED 1910

PROJECT NUMBER: 22111
CONSULTANT:

PROJECT INFORMATION:

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

1450 S Alston Ave, Durham,
NC 27707

SCO PROJECT NO: 23-26020-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

REVISIONS

NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME
HOISTWAY SECTIONS

DRAWING NO.
A531
Drawn By: HM Checked By: JMM



PROJECT NUMBER: 22111
CONSULTANT:

PROJECT INFORMATION:

WALKER GYMNASIUM ELEVATOR MODIFICATION

1450 S Alston Ave, Durham,
NC 27707

SCO PROJECT NO: 23-26200-01A
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DRAWING NAME ELECTRICAL LEGEND AND NOTES

DRAWING NO. E001

Drawn By: RHV Checked By: KCW

ELECTRICAL GENERAL NOTES

- IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND/OR GOVERNING AUTHORITIES.
- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE WITH NORTH CAROLINA AMENDMENTS, THE LATEST EDITIONS OF ALL LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION, THE STATE CONSTRUCTION OFFICE REQUIREMENTS FOR STATE WORK, AND THE ELEVATOR DIVISION REQUIREMENTS OF THE NCDOL.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY "DOWN OR LAG" TIME.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC. (UL) OR WITH THIRD PARTY AGENCIES WHICH SHALL BE AMONGST THOSE ACCREDITED BY THE NCBCC (NORTH CAROLINA BUILDING CODE COUNCIL) TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
 - ILLUMINATING ENGINEERS SOCIETY (IES).
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
- NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY UL, OR OTHER THIRD PARTY AGENCY ACCEPTABLE BY NORTH CAROLINA.
- IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF EQUIPMENT LAYOUT FOR ALL ELECTRICAL SPACES, ROOMS, ETC. TO ENGINEER FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. LAYOUT SHALL CONSIST OF PLAN VIEWS (SCALED AT 1/2" = 1'-0") AND ELEVATIONS (DIMENSIONED) FOR EACH SUCH SPACE, ROOM, ETC.
- ELECTRICAL CONTRACTOR SHALL SUBMIT AT ONE TIME, ONE ELECTRONIC PDF COPY OF ALL PRODUCTS, MATERIALS, LIGHTING FIXTURES, LAMPS, WIRING DEVICES, SWITCHGEAR, ETC. ORGANIZED BY SPEC SECTION. ALL EQUIPMENT SHALL BE AS SPECIFIED ON PLANS. THE RESPONSIBILITY TO ACCEPT OR REJECT ANY PROPOSED SUBSTITUTION REMAINS WITH THE PROJECT ENGINEER. THE CONTRACTOR MAY AT HIS JUDGMENT USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IN THE JUDGMENT OF THE ENGINEER EXPRESSED IN WRITING ARE EQUAL TO THAT SPECIFIED.
- UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC., SHALL BE NEW AND AS SPECIFIED.
- COORDINATE ALL ELECTRICAL SITE WORK WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.
- PROVIDE PROPOSED SCHEDULE OF WORK.
- ALL WIRING SHALL BE COPPER IN EMT OR IMC OR RIGID GRS. FITTINGS SHALL BE COMPRESSION TYPE. LFMC SHALL NOT BE USED WHERE SUBJECT TO PHYSICAL DAMAGE.
- APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
- NOTIFY OWNER 7 DAYS IN ADVANCE OF PROPOSED OUTAGES.
- WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEMA 3R AND RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID-TIGHT.
- OUTLET BOXES SHALL BE STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS. PROPER PLASTER RINGS SHALL BE USED WITH OUTLET BOXES. PROPER COORDINATION BETWEEN ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR FOR PLASTER RING INITIATION WILL BE REQUIRED. ALL OUTLET BOXES SHALL BE SET PROPERLY AT INSTALLATION AS NO "GOO" RINGS WILL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED. ALL DEVICES SHALL BE WHITE (DECORA TYPE) WITH STAINLESS STEEL PLATES (UON).
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, AS INDICATED OR REQUIRED, WITH CLASS 10 ELECTRICAL OVERLOAD RELAYS IN EACH HOT LEG.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SCAFFOLDING, ETC. AS REQUIRED.
- ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES. UO ON, DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED, HEAVY-DUTY TYPE.
- ALL FUSES SHALL BE CURRENT LIMITING, PER UL, RATED 600 VOLTS, UNLESS OTHERWISE NOTED.
 - NON-TIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS.
 - TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION.
- TWO AND THREE-POLE CIRCUIT BREAKERS SHALL HAVE COMMON TRIP. NO TIE HANDLES SHALL BE PERMITTED. ALL PANELBOARDS SHALL HAVE COPPER BUS. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME-TYPE (THERMAL-MAGNETIC).
- WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATER TIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL BE COORDINATED WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
- PROVIDE FIRE RETARDANT (UL APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL GLASS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL GLASS.
- ALL OPENINGS FOR LIGHT FIXTURES IN CEILING SHALL BE PROTECTED IN A MANNER (PER ALL GOVERNING CODES) THAT WILL PROVIDE THE SAME RATING AS THE CEILING. (THIS APPLIES TO ALL FIRE RATED CEILINGS).
- ALL LED LUMINAIRES SHALL HAVE FIELD REPLACEABLE DIMMABLE DRIVERS.
- ALL CONNECTIONS TO GROUND RODS & BUILDING STEEL SHALL BE MADE WITH UL APPROVED WELDED CONNECTIONS, UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- PREPARE AND AFFIX A TYPED WRITTEN DIRECTORY TO THE INSIDE COVER OF EACH NEW AND OR EXISTING (REVISED) PANELBOARD INDICATING LOADS CONTROLLED BY EACH CIRCUIT.
- EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR, NO SHARED NEUTRALS SHALL BE PERMITTED.
- THE STATE CONSTRUCTION OFFICE IS THE AUTHORITY HAVING JURISDICTION (AHJ) FOR THE ELECTRICAL INSPECTIONS ON THIS PROJECT. THE ELEVATOR DIVISION OF THE NCDOL SHARES AUTHORITY WITH RESPECT TO ELEVATOR EQUIPMENT INSTALLATION. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE STATE PROPERTY ELECTRICAL INSPECTORS IN THE CONSTRUCTION ADMINISTRATION SECTION OF THE STATE CONSTRUCTION OFFICE AND THE ELEVATOR INSPECTORS OF THE NCDOL, TO SCHEDULE THE REQUIRED INSPECTIONS. SCHEDULING OF FIELD INSPECTORS SHALL BE LIMITED TO MONDAY THROUGH FRIDAY UNLESS APPROVED OTHERWISE. NO WORK WILL BE COVERED UP UNTIL AFTER THE INSPECTION HAS BEEN COMPLETED AND APPROVED BY AUTHORIZED NCDOL AND SCO INSPECTORS.

WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AVG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED NEUTRALS ARE USED OR HANDLE TIES ARE PROVIDED ON CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SAME TIME. MAXIMUM OF (6) #12 AVG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE). SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	QUADRUPLX RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER, UNO, NEMA 5-20R.
	QUADRUPLX RECEPTACLE MOUNTED 6" ABOVE COUNTER, UNO, NEMA 5-20R.
	DUPLEX RECEPTACLE - CEILING MOUNTED, NEMA 5-20R.
	DUPLEX RECEPTACLE - FLOOR MOUNTED, NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GFI - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	JUNCTION BOX - FLOOR MOUNTED, SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / AV DEVICE.
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "3P" INDICATES NUMBER OF POLES, "20" INDICATES FUSE SIZE, "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC), HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NP" INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DOOR BELL

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
	FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM PULL STATION AT 44" AFF. UNO
	FIRE ALARM VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM AUDIO/VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM HORN AUDIO DEVICE. ROUGH-IN SUCH THAT BOTTOM OF DEVICE IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM SYSTEM BELL
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UNO
	FIRE ALARM SMOKE DUCT DETECTOR
	REMOTE TEST STATION FOR FA DUCT DETECTOR
	TAMPER SWITCH
	FLOW SWITCH
	HEAT DETECTOR
	CO DETECTOR
	MAGNETIC DOOR HOLDER, AT 72" AFF UNO
	MOTORIZED SMOKE DAMPER
	FA SMOKE DAMPER

DISTRIBUTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH

LIGHTING CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER
	DEVICE, JUNCTION BOX, FLOOR BOX, ETC
	EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

LIGHTING & CONTROL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	20A SWITCH AT 44" CL AFF. UNO FOR SWITCH ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: B.P. - SWITCHING SCHEME D - DIMMER M - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH O - OCCUPANCY SENSOR V - VACANCY SENSOR
	TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF. UNO
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING CONTROL PHOTOCCELL
	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE
	EXIT SIGN
	CEILING FAN

TECHNOLOGY SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO, PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	TELEVISION OUTLET. SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. PROVIDE WITH ADJACENT DUPLEX RECEPTACLE.
	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.
	WIRELESS ACCESS POINT. COORDINATE REQUIREMENTS WITH OWNER.

ABBREVIATIONS	
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CJ	COPPER
CKT	CIRCUIT
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FJ	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFINGFCI	GROUND FAULT INTERRUPTER DEVICE
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING(L)
MCA	MINIMUM CIRCUIT AMPACITY
MCS	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MOCOP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SP	SURGE PROTECTED DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL DEMOLITION NOTES	
1.	REFER TO DRAWINGS AND SPECIFICATIONS FOR DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND COORDINATION AND ADDITIONAL REQUIRED WORK.
2.	THIS IS AN OCCUPIED BUILDING AND ALL WORK SHALL BE COORDINATED WITH THE OWNER TO PROVIDE THE LEAST AMOUNT OF DISRUPTION TO THE RESIDENTS. OUTAGES SHALL BE SCHEDULED AT LEAST ONE WEEK IN ADVANCE.
3.	FOR ITEMS TO BE DEMOLISHED, REMOVE WIRING/CONDUIT BACK TO THE LAST ACTIVE DEVICE OR SOURCE PANELBOARD. MAINTAIN CIRCUIT CONTINUITY TO REMAINING ITEMS ON CIRCUITS REQUIRED TO REMAIN. RELOCATE ANY CIRCUITS TO REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
4.	PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. COORDINATE WITH ARCHITECTURAL DRAWINGS. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.
5.	ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER. PROVIDE BLANK COVER PLATES FOR UNUSED OUTLETS, IF ANY.
6.	IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA, THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF NECESSARY.
7.	EXISTING CONDUIT IN THE RENOVATED AREA SHALL BE REMOVED. EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IN CEILING SPACES AND WALLS. EXISTING CONDUIT BELOW FLOOR SLABS MAY BE ABANDONED IN PLACE. REMOVE ALL WIRING, CUT OFF ABANDONED CONDUIT BELOW FLOOR, AND GROUT FLUSH.
8.	CONDUCTORS IN RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE.
9.	PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED. IF THE OWNER DOES NOT WANT THE ITEMS, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH THE OWNER.
10.	WHERE CIRCUIT BREAKERS ARE CHANGED IN EXISTING SWITCHBOARD OR PANELBOARDS, THEY SHALL MATCH EXISTING TYPE, MANUFACTURER, AND AIC RATING AND SHALL BE CURRENT LIMITING TYPE TO MAINTAIN FAULT CURRENT STUDY RATINGS. INFORM ENGINEER IF FAULT CURRENTS WILL BE INCREASED BY THE USE OF DIFFERENT CIRCUIT BREAKERS. UPDATE DIRECTORIES IN EXISTING SWITCHBOARD AND PANELBOARDS TO REFLECT CHANGES BY THIS RENOVATION. DIRECTORIES SHALL BE TYPED WRITTEN.



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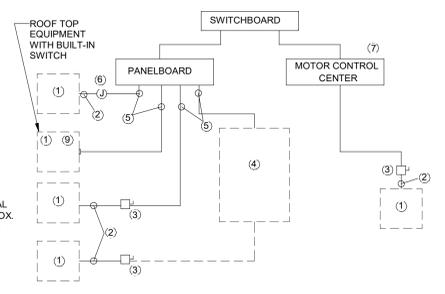
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DRAWING NAME
**ELECTRICAL DETAILS
AND SCHEDULES**

DRAWING NO.
E002

Drawn By: RHV Checked By: KCW

- ELECTRICAL NOTES**
- EQUIPMENT OF TRADES OTHER THAN ELECTRICAL
 - CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.
 - IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
 - A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
 - FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
 - JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
 - PROJECT UTILIZING ANY MCC, THE STARTER, CN, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 - IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
 - IN THE ROOF TOP FAN IN NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
 - IN A SINGLE CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.

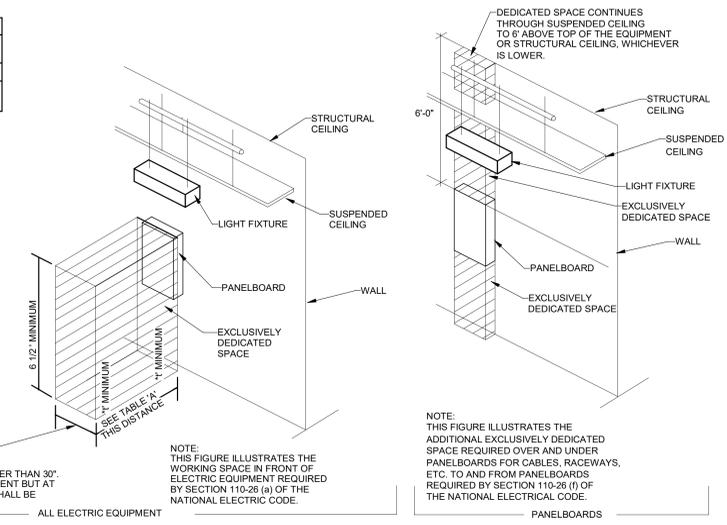


1
E002 SEPARATION OF WORK DETAIL
NOT TO SCALE

TABLE "A" - WORKING CLEARANCES

VOLTAGE TO GROUND, NOMINAL	CONDITION	1	2	3
		MIN. CLEAR DISTANCE (FT)		
0-150		3	3	3
151-600		3	3 1/2	4

- WHERE THE CONDITIONS ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
 - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.
- NOTE: THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRIC EQUIPMENT.



30" OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30". DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90 DEG.

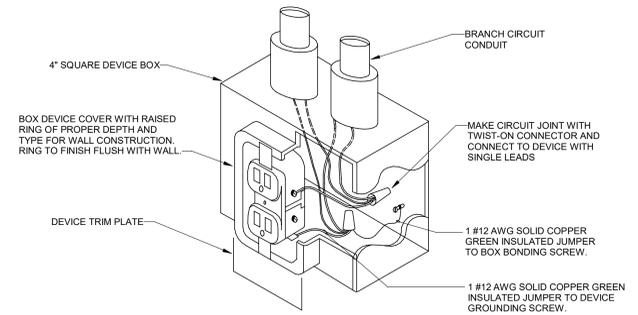
ALL ELECTRIC EQUIPMENT

NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110-26 (f) OF THE NATIONAL ELECTRICAL CODE.

NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110-26 (a) OF THE NATIONAL ELECTRICAL CODE.

NOTE: NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

2
E002 DEDICATED WORKING SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT
NOT TO SCALE



3
E002 RECEPTACLE GROUNDING DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	LAMP # TYPE AND WATTAGE	VOLTAGE	FIXTURE WATTS	MOUNTING METHOD AND HEIGHT	ACCEPTABLE MANUFACTURERS	REMARKS
AE	LENSED LED STRIP LIGHT W/ 90 MIN BATTERY BACK UP	LED 4000°K	120-277	30	CEILING MOUNTED	MANUF: LITHONIA LIGHTING PART # ZL1D L48 3000LM FST MVOLT 40K E7W, OR EQUIVALENT WITH COOPER BRANDS OR SIGNIFY	
B	4' STRIP VAPOR TIGHT FIXTURE	LED 4000°K	120-277	42	SURFACE MOUNTED	MANUF: LITHONIA LIGHTING PART # CSVT L48 3000LM MVOLT 40K 80CRI, OR EQUIVALENT WITH COOPER BRANDS OR SIGNIFY	

- LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**
- FINISHES SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO ORDERING.
 - LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE CONFORMANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDERED.
 - LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.
 - CONTRACTOR SHALL ENSURE THAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WITH FIXTURES AND LAMPS.
 - CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARE FOR PENDANT MOUNTED FIXTURES. VERIFY TYPE REQUIRED WITH ARCHITECT.
 - CONTRACTOR SHALL PROVIDE MOUNTING KITS AND/OR ACCESSORIES REQUIRED FOR INSTALLING FIXTURES IN VARIOUS CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

MECHANICAL EQUIPMENT SCHEDULE

TAG	VOLTAGE	PHASE	LOAD			CONDUCTORS & CONDUIT	DISCONNECT	CIRCUIT		REMARKS
			KW	HP	FLA			PANEL	NO.	
AHU-1	208	1	.43			2#12, 1#12, 3/4" C	30A/2P/20AF/NEMA-1	PC	15,17	
CU-1	208	1	6.8			2#12, 1#12, 3/4" C	30A/2P/20AF/NEMA-3R	PC	18,21	



05/04/23

Panel: EC												
			Voltage: 480/277 Wye			Min SCCR: EXISTING			Remarks: EXISTING PANEL			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 70 A			Type: MCB			
			Enclosure: TYPE 1			Panel Rating: 100 A						
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
20 A	1	E LIGHTS - EXIT 140	1	125	150		2	LIGHTS - EXIT 323	E	1	20 A	
20 A	1	E LIGHTS - EMERG 140, 1ST LEVEL	3		1900	900	4	LIGHTS - EMERG 323, 3RD LEVEL	E	1	20 A	
20 A	1	E LIGHTS - EXIT 222	5			200	6	SPARE	E	1	20 A	
20 A	1	E LIGHTS - EMERG 222, 2ND LEVEL	7	1200	0		8	SPARE	E	1	20 A	
--	1	SPACE	9				10	SPACE		1	--	
--	1	SPACE	11				12	SPACE		1	--	
70 A	3	R ELEVATOR (25 HP)	13	8864	2000		14		E	3	50 A	
--	1	SPACE	15		8864	500	16	PANEL ED				
--	1	SPACE	17			8864	275	18				
--	1	SPACE	19		0		20					
--	1	SPACE	21			0	22	MAIN BREAKER	E	3	100 A	
--	1	SPACE	23			0	24					
				12339 VA	12164 VA	9339 VA						
				PANEL TOTALS:								
Connected Load				Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	33842 VA	
Demand Factor				NEC							Total Conn. Load:	33842 VA
Demand Load											Total Est. Demand:	33842 VA
											Total Conn. Current:	41 A
											Total Est. Demand Current:	41 A

Panel: PC												
			Voltage: 120/208 Wye			Min SCCR: EXISTING			Remarks: EXISTING WESTINGHOUSE 'CDP' PANEL. REPLACE UNDER ADD ALTERNATE E-1. NOTE AIC BRACING SHALL BE 22KAIC. MATCH ALL EXISTING BREAKERS AND RECONNECT IN NEW PANELBOARD.			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 750 A			Type: MCB			
			Enclosure: TYPE 1			Panel Rating: 750 A						
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
20 A	1	E EX FAN #9 145	1	700	390		2	FCU 180	E	1	20 A	
20 A	1	E UNIT HEATER 145	3		530	390	4	FCU 138	E	1	20 A	
20 A	1	E REC TV-2 146	5			200	6	FCU 138	E	1	20 A	
20 A	1	E REC TV-2 146	7	200	700		8	VAV 178	E	1	20 A	
20 A	1	E HVAC CONTROLS	9		500	700	10	VAV 177	E	1	20 A	
20 A	1	E HVAC CONTROLS	11			500	0	12	CIRC PUMP	E	1	20 A
20 A	1	N REC - SUMP PUMP	13	180	640		14					
20 A	2	N AHU-1	15		50	640	16	WASHER 141 (1-1/2 HP)	E	3	15 A	
20 A	2	N CU-1	17	705	4833		18					
20 A	1	N REC - ELEC 146, ROOF	23			360	4833	24				
20 A	1	N ELEVATOR CAB LTGS/CONTROLS	25	500	0		26					
20 A	1	N LTG - ELEV MACHINE ROOM	27		30	0	28	SPARE	E	3	100 A	
20 A	1	N LTG - ELEV SHAFT	29			168	0	30				
225 A	3	E PANEL 'P'	31	16400	10000		32					
			33		16400	10000	34	DRYER 141 (30KW)	E	3	125 A	
			35			17900	10000	36				
225 A	3	E PANEL 'PS' & 'MS'	37	13500	11950		38					
			39		17500	11450	40	PANEL 'PT'	E	3	225 A	
			41	60688 VA	63678 VA	16700	10700	42				
				60688 VA	63678 VA	16700	10700	62391 VA				
				PANEL TOTALS:								
Connected Load				Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	184119 VA	
Demand Factor				NEC							Total Conn. Load:	186717 VA
Demand Load											Total Est. Demand:	186717 VA
											Total Conn. Current:	518 A
											Total Est. Demand Current:	518 A

EXISTING LOADS ARE BASED ON SITE SURVEY AND EXISTING DRAWINGS AND ARE TO THE BEST OF THE DESIGNER'S KNOWLEDGE.
TOTAL LOAD ADDED TO PANEL PC: 2748 VA

Panel: LC												
			Voltage: 480/277 Wye			Min SCCR: EXISTING			Remarks: EXISTING PANEL			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 600 A			Type: MCB			
			Enclosure: TYPE 1			Panel Rating: 600 A						
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
20 A	1	E LTG 163	1	2800	2200		2	LTG 166	E	1	20 A	
20 A	1	E LTG 177	3		2500	2100	4	LTG 160	E	1	20 A	
20 A	1	E LTG 178	5			2000	2700	6	LTG 148	E	1	20 A
20 A	1	E LTG 140	7	1200	1761		8	LTG EXTERIOR	E	1	20 A	
20 A	1	E LTG 144	9		2400	1064	10	LTG EXTERIOR	E	1	20 A	
20 A	1	E LTG 145	11			500	0	12	SPARE	E	1	20 A
15 A	3	E SPARE	13	0	1140		14					
			15		0	1140	16	CR PUMP	E	3	15 A	
			17			0	1140	18				
			19	0	2105		20					
15 A	3	E SPARE	21		0	2105	22	HW PUMP	E	3	15 A	
			23			0	2105	24				
			25	0	2105		26					
15 A	3	E SPARE	27		0	2105	28	AHU #14	E	3	20 A	
			29			0	2105	30				
			31	7200	0		32					
100 A	3	E PANEL 'LS'	33		7200	0	34	SPARE	E	3	100 A	
			35			8500	0	36				
			37	17320	60698		38					
200 A	3	E PANEL 'LT'	39		15500	63678	40	PANEL 'PC' VIA TR#3	E	3	350 A	
			41			15900	62391	42				
				98529 VA	99792 VA	97341 VA						
				PANEL TOTALS:								
Connected Load				Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	293014 VA	
Demand Factor				NEC							Total Conn. Load:	295662 VA
Demand Load											Total Est. Demand:	295612 VA
											Total Conn. Current:	356 A
											Total Est. Demand Current:	356 A

Panel: PF												
			Voltage: 120/208 Wye			Min SCCR: EXISTING			Remarks: EXISTING PANEL			
			Phases: 3			Mounting: SURFACE						
			Wires: 4			Feeder Rating: 225 A			Type: MLO			
			Enclosure: TYPE 1			Panel Rating: 225 A						
BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR		
20 A	1	E SPARE	1	0	800		2	REC 178	E	1	20 A	
20 A	1	E SPARE	3		0	800	4	REC 178	E	1	20 A	
20 A	1	E REC ELEV MACHINE RM 139	5			800	800	6	REC 178	E	1	20 A
20 A	1	E REC ELEV MACHINE RM 139	7	800	800		8	REC 178	E	1	20 A	
20 A	1	E REC ELEV MACHINE RM 139	9		800	800	10	REC 178	E	1	20 A	
20 A	1	E STUDY CARRELS	11			800	800	12	REC 178	E	1	20 A
30 A	1	E STUDY CARRELS	13	800	800		14	REC 157	E	1	20 A	
30 A	1	E STUDY CARRELS	15		800	800	16	REC 154	E	1	20 A	
30 A	1	E HAIR DRYER	17			2300	800	18	REC 140	E	1	20 A
30 A	1	E HAIR DRYER	19	2300	800		20	REC 177	E	1	20 A	
30 A	1	E HAIR DRYER	21		2300	800	22	REC 176	E	1	20 A	
30 A	1	E HAIR DRYER	23			2300	800	24	REC 177	E	1	20 A
30 A	1	E HAIR DRYER	25	2300	800		26	REC 163	E	1	20 A	
30 A	1	E HAIR DRYER	27		2300	800	28	REC 164	E	1	20 A	
30 A	1	E HAIR DRYER	29			2300	800	30	REC 141	E	1	20 A
30 A	1	E HAIR DRYER	31	2300	800		32	REC 142	E	1	20 A	
30 A	1	E HAIR DRYER	33		2300	800	34	REC 142	E	1	20 A	
30 A	1	E HAIR DRYER	35			2300	800	36	REC 138	E	1	20 A
30 A	1	E HAIR DRYER	37	2300	800		38	REC 138	E	1	20 A	
30 A	1	E HAIR DRYER	39		2300	800	40	REC 145	E	1	20 A	
30 A	1	E HAIR DRYER	41			2300	0	42	SPARE	E	1	20 A
				16400 VA	16400 VA	17900 VA						
				PANEL TOTALS:								
Connected Load				Lighting	HVAC	Motors	Receptacle	Refrig	Kitchen	Misc	50700 VA	
Demand Factor				NEC							Total Conn. Load:	50700 VA
Demand Load											Total Est. Demand:	50700 VA
											Total Conn. Current:	141 A
											Total Est. Demand Current:	141 A

- PANEL NOTES:**
- A - AFCI BREAKER
 - G - GFI CIRCUIT BREAKER
 - IG - ISOLATED GROUND CIRCUIT
 - CH - ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
 - LF - PROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
 - LO - PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
 - P - PRE-WIRED INTERNAL CIRCUIT BY SWITCHGEAR MANUFACTURER
 - ST - SHUNT TRIP CIRCUIT BREAKER
 - SUB - SUB-FEED CIRCUIT BREAKER
 - E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
 - N - NEW BREAKER INSTALLED IN EXISTING PANEL. REMOVE EXISTING BREAKER IF THERE IS ONE PRESENT
 - R - REUSE EXISTING BREAKER IN EXISTING PANEL WITH NEW LOAD

PROJECT NUMBER: 22111
CONSULTANT

PROJECT INFORMATION:

SEALS

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Engineering Great Ideas
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NC Firm License No. C-0819

NORTH CAROLINA CENTRAL UNIVERSITY
FOUNDED 1910

PROJECT NUMBER: 22111
CONSULTANT

PROJECT INFORMATION:

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

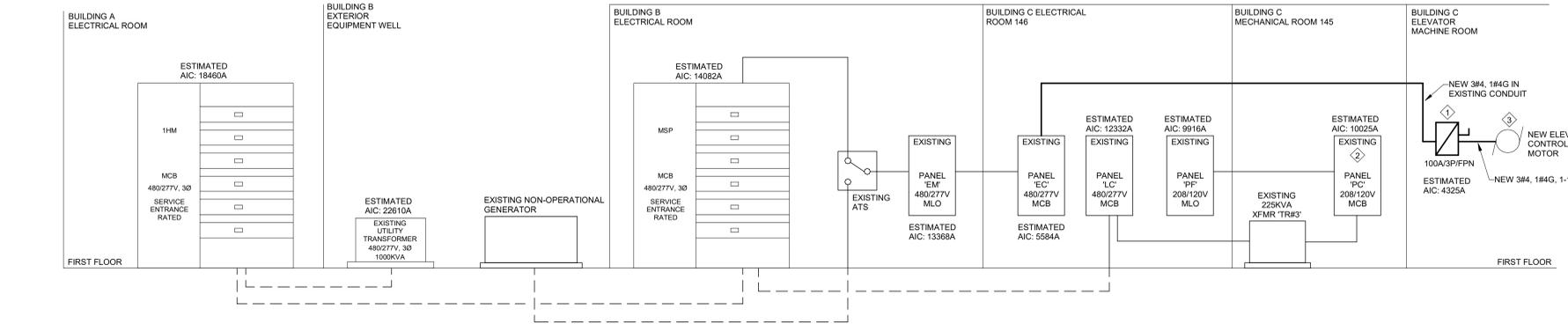
1450 S Alston Ave, Durham, NC 27707

SCO PROJECT NO: 23-26020-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

GENERAL NOTES:
A. ALL EQUIPMENT IS EXISTING U.N.O.

- RISER NOTES:**
- NEW LOCKABLE FUSIBLE DISCONNECT. PROVIDE FUSE FOR DISCONNECT PER ELEVATOR MOTOR NAMEPLATE. CONNECT TO EXISTING 70A/3P CIRCUIT BREAKER FEEDING ELEVATOR. PROVIDE AUX CONTACTS FOR FUTURE SPRINKLER SYSTEM SHUNT TRIP.
 - SEE PANEL SCHEDULE FOR REPLACEMENT OF PANEL UNDER ADD ALTERNATE E-1.
 - NEW ELEVATOR HAS BATTERY LOWERING SYSTEM. REFER TO ELEVATOR SPECIFICATIONS.

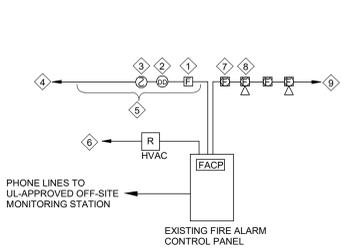


1 PARTIAL EXISTING POWER RISER DETAIL
E003 NOT TO SCALE

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**DRAWING NAME
ELECTRICAL PANELS
AND RISER DIAGRAM**

DRAWING NO. **E003**
Drawn By: RHV Checked By: KCW



FIRE ALARM RISER DIAGRAM NOTES:

1. MANUAL PULL STATION
2. DUCT DETECTOR
3. PHOTOELECTRIC SMOKE DETECTOR.
4. COMMUNICATIONS WIRING LOOP. RETURN TO FACP (CLASS 'A' CIRCUIT).
5. TYPICAL SYSTEM INITIATION DEVICE. REFER TO PLANS FOR EXACT TYPES AND QUANTITIES.
6. HVAC SHUT DOWN CIRCUIT. ROUTE TO SHUTDOWN RELAYS AT EACH UNIT.
7. STROBE UNIT. TYPICAL. MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
8. COMBINATION HORN/STROBE UNIT. TYPICAL. MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
9. TO ADDITIONAL HORN/STROBE UNITS NOT INDICATED. RETURN TO FACP (CLASS 'A' CIRCUIT).

1 EXISTING FIRE ALARM RISER
E004 / NOT TO SCALE

ACTION	BUILDING SYSTEM OUTPUTS																CENTRAL COMM					
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL INDICATOR	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL INDICATOR	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORN STROBE	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RETURN ELEVATOR TO 2ND FLOOR	RETURN ELEVATOR TO 1ST FLOOR	SHUNT TRIP AFTER ELEVATOR REACHES APPROPRIATE FLOOR	SHUT DOWN RESPECTIVE AIR HANDLER	RELEASE MAGNETIC DOOR HOLDERS	SHOW CHANGE OF STATUS ON SIGNALLING PANEL	SHOW CHANGE OF STATUS ON CENTRAL STATION	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
MANUAL FIRE ALARM PULL BOXES	X	X					X	X	X									X	X	X		
BUILDING SMOKE DETECTOR	X	X					X	X	X	X								X	X	X		
DUCT SMOKE DETECTOR			X	X				X			X					X		X	X			X
FIRE ALARM A/C POWER FAILURE					X	X		X				X						X	X			X
FIRE ALARM SYSTEM LOW BATTERY					X	X		X			X							X	X			X
OPEN CIRCUIT					X	X		X			X							X	X			X
GROUND FAULT					X	X		X			X							X	X			X
NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X			X							X	X			X
ELEV EQ RM/1ST FLR ELEV LOBBY SMOKE DETECTORS	X	X					X	X	X	X			X					X	X	X		
UPPER FLOORS ELEV LOBBY SMOKE DETECTORS	X	X					X	X	X	X			X					X	X	X		

SEQUENCE OF OPERATION:

- A. ALARM DETECTION: WHEN A FIRE ALARM CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 1. SYSTEM ALARM INDICATOR SHALL FLASH CONTINUOUSLY.
 2. A LOCAL SOUNDING DEVICE IN THE PANEL SHALL BE ACTIVATED.
 3. CONTROL PANEL DISPLAY SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE ALARM AND ITS LOCATION IN THE ALARM MESSAGE QUEUE.
 4. APPROPRIATE STATUS CHANGE MESSAGE SHALL BE DISPLAYED ON ALL PRINTERS SO PROGRAMMED.
 5. ALL AUTOMATIC PROGRAMS ASSIGNED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED NOTIFICATION APPLIANCE CIRCUITS AND CONTROL RELAYS ADDRESSED AND ACTIVATED.
- B. TROUBLE DETECTION: WHEN A TROUBLE CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 1. SYSTEM TROUBLE INDICATOR SHALL FLASH.
 2. A LOCAL SOUNDING DEVICE IN THE PANEL SHALL SOUND.
 3. CONTROL PANEL SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE TROUBLE CONDITION AND ITS LOCATION.
 4. UNACKNOWLEDGED ALARM MESSAGES SHALL HAVE PRIORITY OVER TROUBLE MESSAGES, AND IF SUCH AN ALARM MUST ALSO BE DISPLAYED. THE TROUBLE MESSAGE WILL NOT BE DISPLAYED UNTIL THE OPERATOR HAS ACKNOWLEDGED ALL ALARM MESSAGES.
- C. ALARM SIGNALING: WHEN THE DETECTION OF SMOKE IN ANY ELEVATOR LOBBY THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 1. THE FACP WILL SIGNAL THE ELEVATOR CONTROLLER TO ENTER PHASE 1 EMERGENCY RECALL.
 2. THE ELEVATOR CONTROLLER WILL RETURN THE CAR TO THE APPROPRIATE PRIMARY OR SECONDARY RECALL FLOOR, OPEN THE DOORS AND DEACTIVATE ELEVATOR.
- D. RE-ACTIVATING THE ELEVATOR: FIRE AND RESCUE PERSONNEL MAY RE-ACTIVATE THE ELEVATOR FOR EMERGENCY USE AND IF SMOKE IS DETECTED IN THE ELEVATOR SHAFT OR MACHINE ROOM THE FOLLOWING SHALL OCCUR:
 1. THE FACP SIGNALS THE ELEVATOR TO GO INTO PHASE 2 RECALL AND ILLUMINATE THE FIREMAN'S HAT.
 2. PHASE 1 AND PHASE 2 OPERATES BEFORE THE ACTIVATION OF THE HEAT DETECTORS CAUSES THE FACP TO DIRECTLY SHUNT-TRIP THE ELEVATOR POWER.

ANNUNCIATION:

- A. BUILDING SMOKE DETECTORS SHALL CAUSE AN ALARM TO THE FIRE ALARM SYSTEM.
- B. ALL VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
- C. ALL AUDIBLE NOTIFICATION DEVICES SHALL ALARM WITH THE STANDARD THREE-PULSE TEMPORAL PATTERN WHEN BUILDING EVACUATION IS REQUIRED.
- D. ALL FIRE ALARM NOTIFICATION CIRCUITS SHALL BE ROUTED IN CONDUIT AND MEET NFPA REQUIREMENTS FOR SURVIVABILITY.

SYSTEM DEVICES:

- A. PROVIDE ADDRESSABLE DEVICES ONLY IN CONDITIONED SPACES. NO ADDRESSABLE DEVICES ARE ALLOWED IN UNCONDITIONED SPACES.

TESTING OF DEVICES:

- A. AFTER COMPLETION OF FIRE ALARM INSTALLATION, TEST ALL NEW DEVICES. ALL DEVICES ON SAME LOOP, AND 10% OF EXISTING FIRE ALARM DEVICES TO VERIFY PROPER OPERATION PER SCO FIRE ALARM GUIDELINES AND NFPA 72 REQUIREMENTS.



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NC Firm License No. C-0819



PROJECT NUMBER: 22111
CONSULTANT:

PROJECT INFORMATION:

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

1450 S Alston Ave, Durham,
NC 27707

SCO PROJECT NO: 23-26020-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME
**FIRE ALARM RISER
AND NOTES**

DRAWING NO.
E004

Drawn By: RHV Checked By: KCW



05/04/23

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NC 27707

SCO PROJECT NO: 23-26020-01A
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REVISIONS

NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME ELECTRICAL FLOOR PLANS

DRAWING NO. **E100**

Drawn By: RHV Checked By: KCW

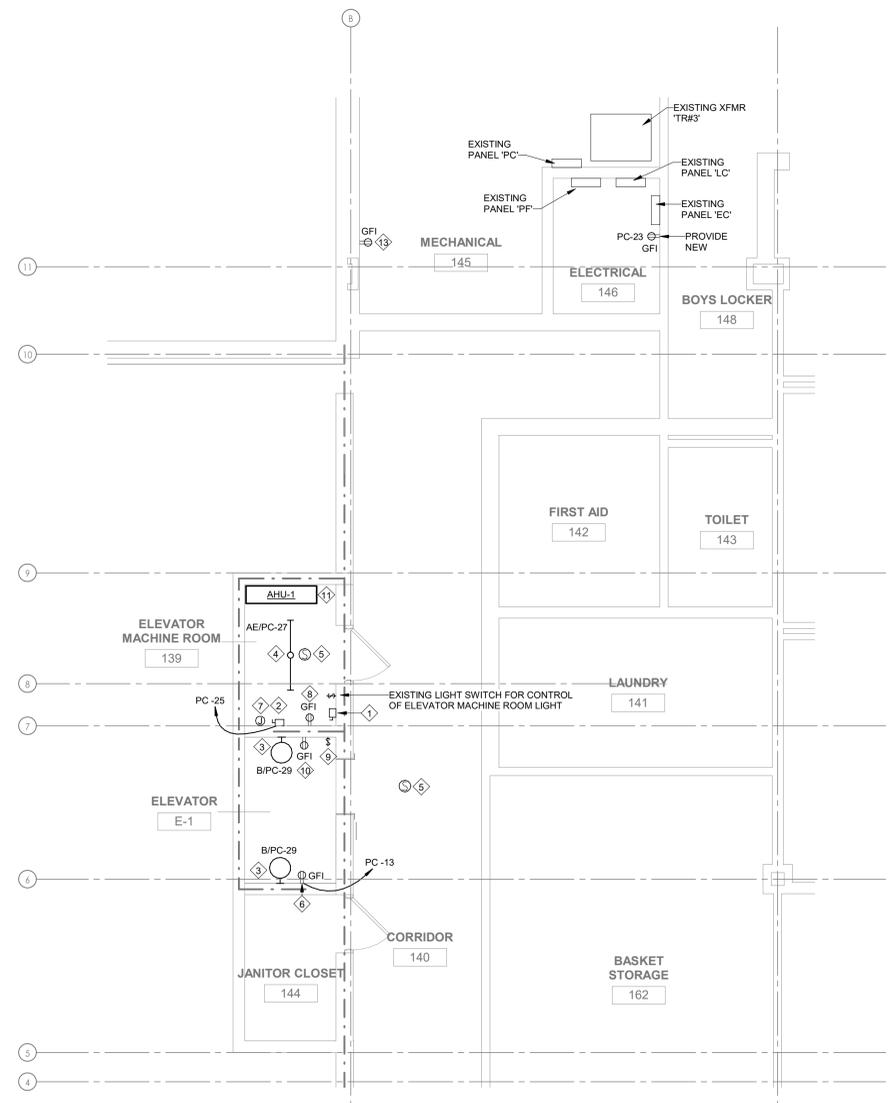
GENERAL NOTES:

- PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
- COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL POS, SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.
- EMERGENCY LIGHTS/EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT INDICATED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES.
- REFER TO SHEET E002 FOR LIGHTING FIXTURE SCHEDULE.
- DIMMED LIGHTING CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING OF NEUTRALS IS NOT ALLOWED ON DIMMED CIRCUITS.

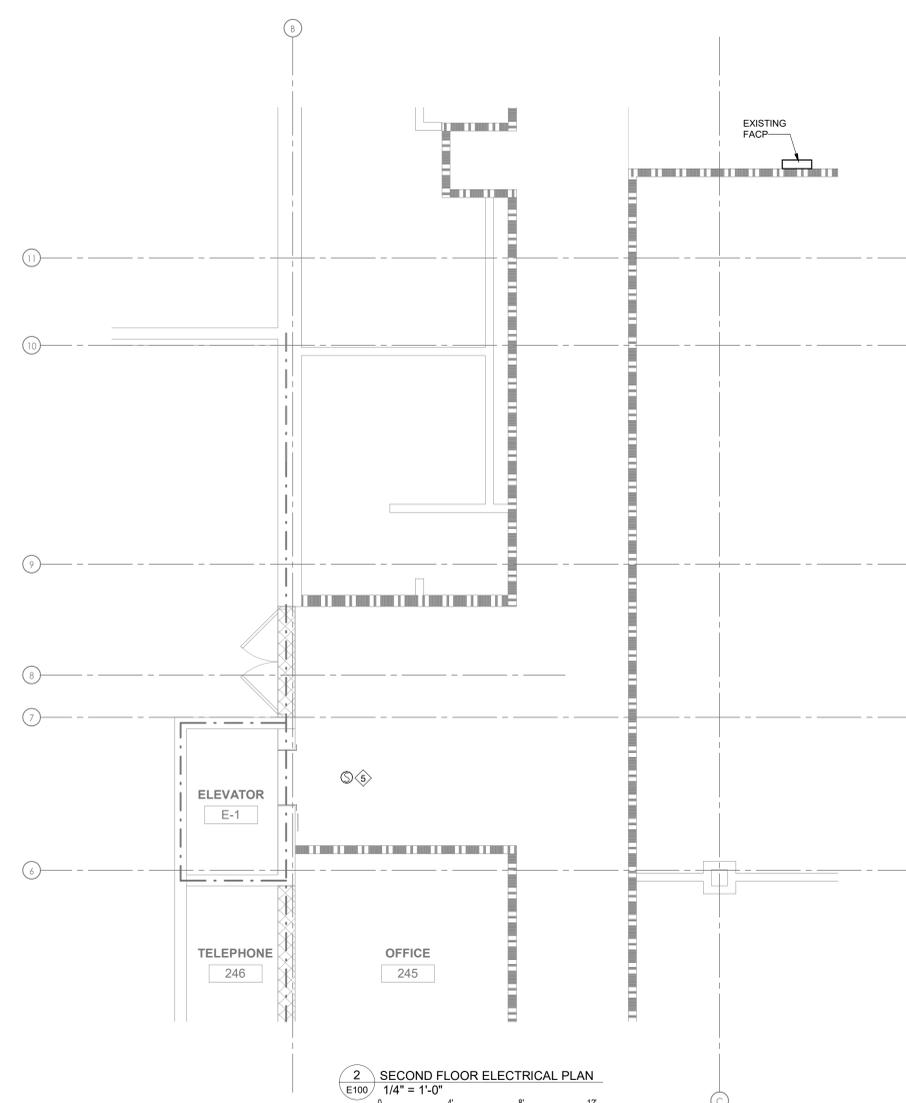
PLAN NOTES:

- REMOVE EXISTING ELEVATOR DISCONNECT. REMOVE ALL ASSOCIATED WIRING BACK TO EXISTING PANEL 'EC'. PROVIDE NEW LOCKABLE FUSIBLE DISCONNECT. SEE RISER DIAGRAM FOR DISCONNECT AND FUSE SIZE.
- PROVIDE NEW LOCKABLE 30A/2P/20AF/1 DISCONNECT FOR ELEVATOR CAB LIGHTS AND CONTROLS. REMOVE EXISTING SPARE 100A/3P CIRCUIT BREAKER AT PANEL 'CIRCUIT'. 'PC-25, 27, 29' AND PROVIDE NEW 20A/1P CIRCUIT BREAKER FOR CONNECTION.
- PROVIDE VAPOR TIGHT LED LIGHT FIXTURE. CONNECT TO CIRCUIT INDICATED.
- REMOVE EXISTING CEILING MOUNTED LIGHT AND ALL ASSOCIATED WIRING. PROVIDE NEW LED LIGHT FIXTURE AND CONNECT TO CIRCUIT INDICATED. REUSE EXISTING CONDUIT IF POSSIBLE.
- REMOVE EXISTING CEILING MOUNTED SMOKE DETECTOR AND PROVIDE NEW SMOKE DETECTOR INTERLOCKED WITH ELEVATOR EQUIPMENT FOR ELEVATOR RECALL.
- REMOVE EXISTING SUMP PUMP RECEPTACLE AND ALL ASSOCIATED WIRING BACK TO NEAREST SOURCE. PROVIDE AND INSTALL NEW 5-20R RECEPTACLE IN ELEVATOR PIT AND CONNECT TO CIRCUIT INDICATED. REUSE EXISTING CONDUIT IF POSSIBLE.
- JBOX FOR ELEVATOR COMMUNICATION AND CCTV SYSTEMS. PROVIDE 1-1/4" TO NEAREST IT CLOSET. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN. COORDINATE WITH NCCU IT DEPARTMENT AND ELEVATOR CONTRACTOR.
- DEMO EXISTING RECEPTACLE AND ALL ASSOCIATED WIRING BACK TO NEAREST SOURCE. PROVIDE AND INSTALL NEW 5-20R RECEPTACLE AND RECONNECT TO PANEL 'PP'. REUSE EXISTING CONDUIT IF POSSIBLE.
- PROVIDE NEW LIGHT SWITCH AT TOP OF PIT LADDER FOR CONTROL OF ELEVATOR SHAFT AND PIT LIGHTS.
- REMOVE EXISTING SERVICE RECEPTACLE AND ALL ASSOCIATED WIRING BACK TO NEAREST SOURCE. PROVIDE AND INSTALL NEW 5-20R RECEPTACLE IN ELEVATOR PIT AND RECONNECT TO PANEL 'PP'. REUSE EXISTING CONDUIT IF POSSIBLE.
- REMOVE EXISTING SPARE 20A/3P CIRCUIT BREAKER AT PANEL 'CIRCUIT' 'PC-13, 15, 17' AND PROVIDE NEW 20A/2P CIRCUIT BREAKER FOR CONNECTION TO AHU-1. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E002 FOR MORE INFORMATION.
- REMOVE EXISTING UNUSED 60A/3P CIRCUIT BREAKER AT PANEL 'CIRCUIT' 'PC-18, 21, 23' AND PROVIDE NEW 20A/2P CIRCUIT BREAKER FOR CONNECTION TO CU-1 MOUNTED ON ROOF. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E002 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
- REPLACE EXISTING RECEPTACLE WITH NEW GFI 5-20R RECEPTACLE. REMOVE EXISTING WIRING TO NEAREST SOURCE AND PROVIDE NEW WIRING FOR CONNECTION TO EXISTING CIRCUIT IN EXISTING CONDUIT.

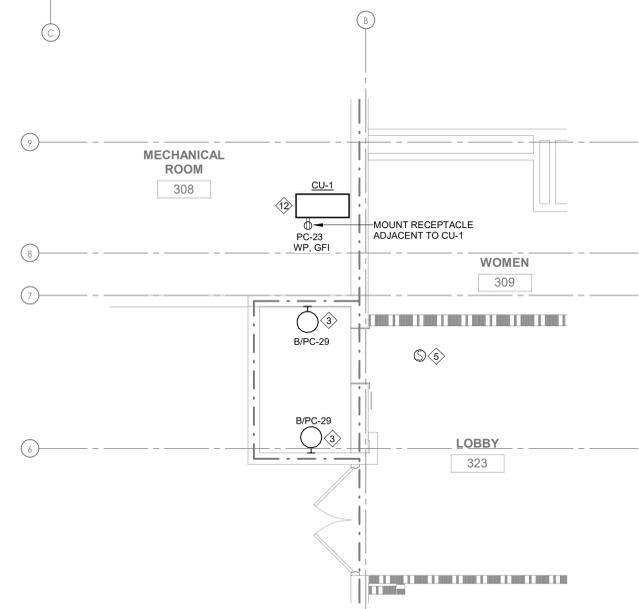
WALL RATING LEGEND	
	UNRATED WALL
	EXISTING 1 - HOUR FIRE - RESISTANCE RATING
	EXISTING 2 - HOUR FIRE RESISTANCE RATING



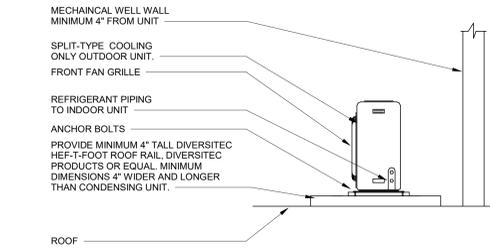
1 FIRST FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



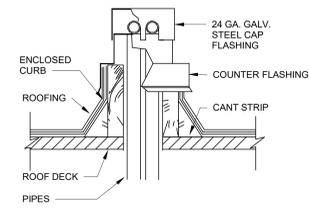
2 SECOND FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



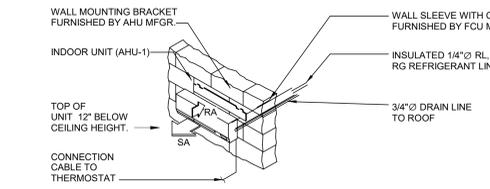
3 THIRD FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



1 MINI SPLIT DETAIL
NOT TO SCALE



2 REFRIGERANT ROOF PENETRATION
NOT TO SCALE



3 WALL MOUNTED UNIT
NOT TO SCALE

AIR HANDLING UNIT SCHEDULE						
No.	MANUFACTURER/MODEL No.	FAN SELECTION			ELECTRICAL	NOTES
		DESIGN CFM	OUTSIDE AIR (CFM)	ESP IN. WG		
AHU-1	DAIKIN FTK18NMVJU	579	N/A	N/A	46	SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS

NOTES:
 1. UNIT SHALL BE U.L. LISTED AND ARI CERTIFIED UNIT.
 2. PROVIDE SET POINT THERMOSTAT.
 3. INSTALL PER MANUFACTURER RECOMMENDATIONS
 4. COOLING CAPACITY AT 95/75 F DBWB
 5. UNIT SHALL HAVE BUILT IN CONDENSATE PUMP BY MANUFACTURER DAIKIN DACA-CP-1 OR EQUIVALENT.
 6. CONNECT TO BUILDING BMS. COORDINATE WITH UNIVERSITY MAINTENANCE STAFF AND PROVIDE ALL NECESSARY COMPONENTS

CONDENSING UNIT SCHEDULE									
TAG	MANUFACTURER MODEL NO.	UNIT SERVED	NOMINAL TONNAGE	MBH TOTAL	MBH SENSIBLE	SEER	ELECTRICAL	WEIGHT LBS.	NOTES
CU-1	DAIKIN RK18NMVJU	AHU-1	1.5	18.0	13.5	18.0	SEE ELECTRICAL	115	ALL

NOTES:
 1. MANUFACTURER PROVIDED ROOF MOUNTING BRACKET.
 2. MAINTAIN FACTORY SPECIFIED CLEARANCES ON ALL SIDES OF UNIT.
 3. UNIT SHALL BE U.L. LISTED AND ARI CERTIFIED.
 4. PROVIDE CONDENSING UNIT BY SAME MANUFACTURER AS INDOOR AIR HANDLING UNIT.
 5. DISCONNECT SWITCH SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
 6. COOLING CAPACITY AT 95/75 F DBWB
 7. CONNECT TO BUILDING BMS. COORDINATE WITH UNIVERSITY MAINTENANCE STAFF AND PROVIDE ALL NECESSARY COMPONENTS

- GENERAL MECHANICAL NOTES
- WORK SHALL CONFORM WITH THE 2018 NORTH CAROLINA MECHANICAL CODE, 2018 NORTH CAROLINA PLUMBING CODE, AND THE 2018 NORTH CAROLINA BUILDING CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES.
 - THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY BREAKDOWN OCCURRING IN THE FIRST YEAR SHALL BE AT NO EXPENSE TO THE OWNER. ALL REFRIGERATION COMPRESSORS SHALL HAVE A FIVE YEAR (PARTS ONLY) WARRANTY, AND ALL NATURAL GAS HEAT EXCHANGERS SHALL HAVE A TEN YEAR (PARTS ONLY) WARRANTY.
 - DRAWINGS ARE SCHEMATIC, NOT ALL RISES AND DROPS ARE SHOWN. TRADES ARE TO COORDINATE THEIR WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS. GENERALLY, DUCTWORK SHALL BE KEPT AS HIGH AS POSSIBLE.
 - CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR VOLTAGES SHOWN THEREIN.
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS, CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD.
 - CONTRACTOR SHALL KEEP A SET OF MARKED UP PRINTS WITH ANY FIELD CHANGES MADE DURING CONSTRUCTION TO CREATE AN "AS-BUILT" SET OF PRINTS TO BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
 - PROVIDE ACCESS PANELS IN CEILINGS AND WALLS TO ALLOW ACCESS TO VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. MINIMUM ACCESS SIZE - 12"x12", UNLESS LIMITED BY PHYSICAL CONSTRAINTS.
 - MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ANY ADDITIONAL SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT EQUIPMENT FROM MAIN STRUCTURE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
 - ALL CONDENSATE DRAIN PIPING SHALL BE TYPE L HARD DRAWN COPPER, ASTM B-88, WITH TYPE DWV FITTINGS, ASME B16.23, OR SCHEDULE 40 PVC, ASTM D1785, WITH TYPE DWV FITTINGS, ASTM D2877. COPPER DRAIN PIPE AND FITTINGS SHALL BE JOINED USING 95-5 SILVER SOLDER, AND PVC PIPE AND FITTINGS SHALL BE JOINED USING SOLVENT CEMENT. PROVIDE TRAP WITH CLEANOUT AND UNIONS. SLOPE CONDENSATE DRAIN LINES A MINIMUM OF 1/8" PER FOOT AWAY FROM THE MECHANICAL EQUIPMENT.
 - THE MECHANICAL CONTRACTOR SHALL PROVIDE THERMOSTATS AND CONTROLS WIRING FOR ALL MECHANICAL SYSTEMS. THERMOSTAT SHALL BE EQUAL TO HONEYWELL TH11102909.
 - INSTALL THERMOSTATS AT 4'-0" A.F.F. UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.

- REFRIGERANT PIPING NOTES
- REFRIGERANT PIPING SHALL BE RIGID HARD DRAWN COPPER PIPE, TYPE L, ASTM B88, OR TYPE ACR, ASTM B280. FITTINGS SHALL BE WROUGHT COPPER SOLDER JOINT, ASTM B16.22.
 - SOLDER MATERIAL SHALL BE 95-5 TIN-ANTIMONY.
 - PROVIDE REFRIGERANT SPECIALTY COMPONENTS SUCH AS FILTER-DRYER AND/OR SIGHT GLASS AS REQUIRED BY UNIT MANUFACTURER.
 - REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, TAKING INTO ACCOUNT ALL PRESSURE LOSSES FROM FITTINGS, ELEVATION CHANGES, ETC.
 - REAM PIPE ENDS AND REMOVE BURRS. APPLY FLUX TO JOINTS PRIOR TO APPLYING SOLDER.
 - PURGE AND PRESSURE TEST REFRIGERANT PIPING SYSTEM, REPAIR LEAKS AS REQUIRED. CHARGE SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PROVIDE PIPE SLEEVES AT ALL WALL AND FLOOR PENETRATIONS. FILL SLEEVE WITH A U.L. LISTED THROUGH PENETRATION FIRE STOP SYSTEM AT RATED WALLS AND/OR FLOORS. FILL SLEEVE WITH A WATER PROOF SEALER AT EXTERIOR WALLS OR SLAB.
 - PROVIDE PIPE SUPPORTS IN ACCORDANCE WITH MSS-SP-89, AND SPACED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.
 - INSULATE REFRIGERANT SUCTION LINES WITH 3/4" FLEXIBLE ELASTOMERIC INSULATION WITH SELF SEALING LONGITUDINAL SEAMS. TRANSVERSE (BUTT) SEAMS SHALL BE SEALED WITH AN APPROVED SEALER. INSULATION INSTALLED OUTDOORS SHALL BE COVERED WITH AN ALUMINUM COVER, SECURED WITH METAL WIRE WRAP

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NORTH CAROLINA CENTRAL UNIVERSITY
FOUNDED 1910

PROJECT NUMBER: 22111
CONSULTANT:

PROJECT INFORMATION:

SCO PROJECT NO: 23-2620-01A
ISSUE DATE: 05/04/23
PHASE: BID SET

**WALKER GYMNASIUM
ELEVATOR
MODIFICATION**

1450 S Alston Ave, Durham,
NC 27707

NO.	DATE	DESCRIPTION
REVISIONS		

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DRAWING NAME
**MECHANICAL LEGEND,
NOTES, AND DETAILS**

DRAWING NO.
M001

Drawn By: CCR Checked By: MAR

System No. C-AJ-8178
F Rating — 2 Hr
T Ratings — 1/4, 1/2, 1 and 1-3/4 Hr (See Item 2)

- Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in. (102 mm).
See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- Metallic Penetrants — A max of two pipes, conduits or tubing to be installed within the opening. Of the two pipes, conduits or tubing, only one of the pipes, conduit or tubing shall have a nom diam greater than 1/2 in. (13 mm). The annular space between metallic pipes, conduits or tubing and the periphery of the opening shall be min 1/2 in. (13 mm) to max 1 in. (25 mm). The annular space between metallic penetrating items and the other penetrants shall be min 0 in. (point contact) to max 1 in. (25 mm). Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Nom 1 in. (25 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 1/2 in. (13 mm) diam (or smaller) steel electrical metallic tubing or nom 1/2 in. (13 mm) diam (or smaller) steel conduit.
D. Copper Tubing — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.
The T Rating is 1/4 hr when metallic penetrant is used.
- Tube Insulation - Plastics — Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation shall be installed on metallic through penetrants exceeding nom 1/2 in. (13 mm) diam. The annular space between insulated penetrating item and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). The annular space between insulated penetrating item and the other penetrants shall be a min 0 in. (point contact) to max 1 in. (25 mm).
See Plastics* (DMFZZ) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
The T Rating is 1 hr when insulated metallic pipe or tubing is used.
- Cables — Max one, 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials. Cable to be spaced a min 0 in. (point contact) to max 1 in. (25 mm) from the other penetrants. The annular space between the cable and the periphery of the opening shall be a min 1/2 in. (13 mm) to max 1 in. (25 mm). Cable to be rigidly supported on both sides of wall assembly.
The T Rating is 1/2 hr when cable is used.

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Hilti Firestop Systems

System No. C-AJ-8178

- Nonmetallic Penetrant — A max of one nonmetallic pipe to be installed within the opening. The annular space between pipe and periphery of the opening shall be min 0 in. (point contact) to max 1 in. (25 mm). The annular space between nonmetallic penetrating item and the other penetrants shall be min 0 in. (point contact) to max 1 in. (25 mm). Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 1-1/4 in. (32 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in vented (drain, waste or vent) or closed (process or supply) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 1-1/4 in. (32 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
The T Rating is 1-3/4 hr when nonmetallic pipe is used.
- Firestop System — The firestop system shall consist of the following:
A. Fill, Void or Cavity Material - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with bottom surface of concrete floor or both surfaces of wall assembly. Fill material to be forced into interstices of through penetrants to max extent possible. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.
B. Firestop Device* - Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the cable bundle and secured to underside of floor or both sides of wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) devices and 3 anchor hooks for 3 and 4 in. (76 and 102 mm) devices.) The anchor hooks are to be secured with 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long steel expansion type masonry fasteners, 1-1/4 in. (32 mm) long concrete screw anchors, 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a nom 15 mm (9/16 in.) diam steel washer, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long KWIK-BOLT 3 steel expansion anchor or Hilti X-DNI 27 P8 S15 powder actuated floor pin with integral nom 9/16 in. (15 mm) diam washer. One fastener shall be located in each anchor hook. See Table below for size of device required for the opening.

4 (102)	CP 643 110/4"N
3 (76)	CP 643 90/3"N
2 (51)	CP 643 63/2"N
1-1/2 (38)	CP 643 50/1.5"N

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

*Bearing the UL Recognized Component Mark

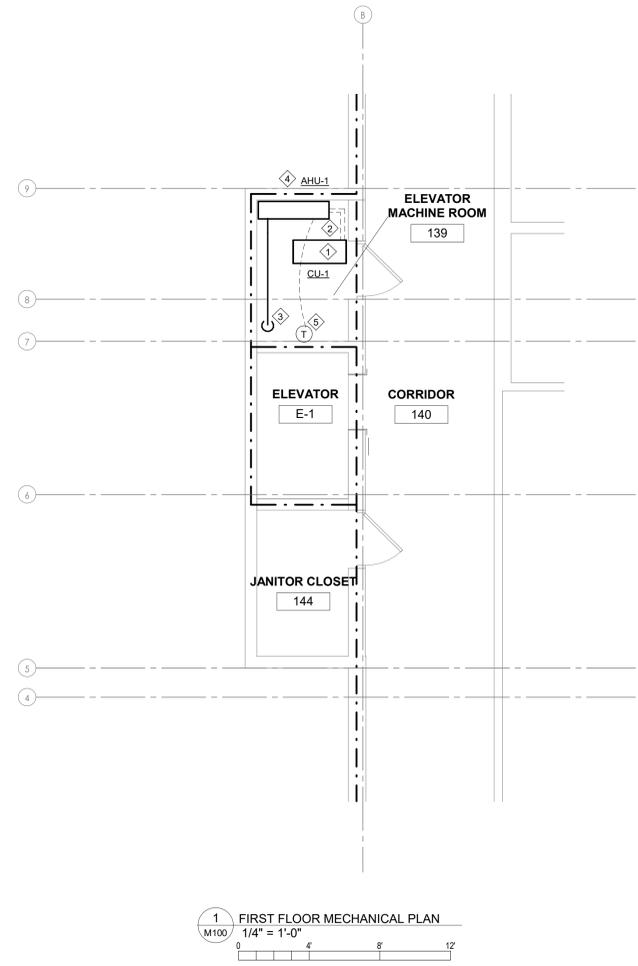
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Hilti Firestop Systems

- KEY NOTES: 
1. MOUNT CONDENSING UNIT TO ON RAILS IN MECHANICAL WELL OF ROOF.
 2. ROUTE REFRIGERANT PIPING THROUGH ROOF TO CONDENSING UNIT
 3. ROUTE FULL SIZE CONDENSATE LINE THROUGH ROOF AND PROVIDE SPLASH BLOCK. PROVIDE 24 V BOOSTER PUMP. COORDINATE WITH ELECTRICAL.
 4. MOUNT AHU-1 WITH TOP 12" BELOW CEILING PER MANUFACTURER RECOMMENDATIONS.
 5. MOUNT THERMOSTAT AT 48" AFF.

WALL RATING LEGEND

	UNRATED WALL
	EXISTING 1 - HOUR FIRE - RESISTANCE RATING
	EXISTING 2 - HOUR FIRE RESISTANCE RATING



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PROJECT NUMBER: 22111
 CONSULTANT

PROJECT INFORMATION:

**WALKER GYMNASIUM
 ELEVATOR
 MODIFICATION**

1450 S Alston Ave, Durham,
 NC 27707

SCO PROJECT NO: 23-26020-01A
 ISSUE DATE: 05/04/23
 PHASE: BID SET

REVISIONS

NO.	DATE	DESCRIPTION
1	04/05/23	SCO COMMENTS

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DRAWING NAME
**MECHANICAL FLOOR
 PLAN**

DRAWING NO.
M100
 Drawn By: CCR Checked By: MAR