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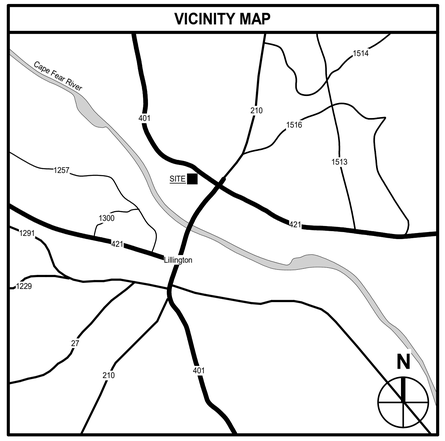
HARNETT CO DSS UPFIT 2ND FLOOR



HARNETT CO DSS
LILLINGTON, NC

631797

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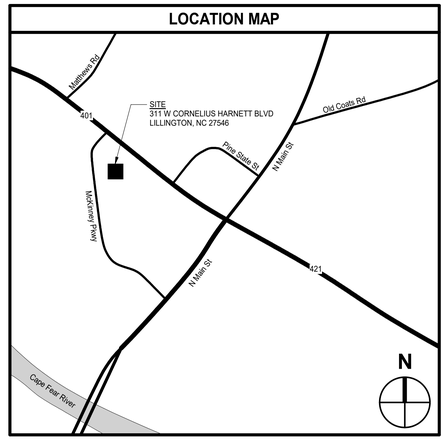

DRAWING INDEX

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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JOSHUA D. MOSELEY
02-07-2024
NORTH CAROLINA
RALEIGH, NC

MOSELEY ARCHITECTS, PC
REGISTERED ARCHITECTURAL CORPORATION
50149
NORTH CAROLINA
RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR
631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS

DATE	DESCRIPTION

COVER

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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 plans sheet 1 or 2)

Name of Project: Harnett Co DSS Upfit of 2nd Floor Extension
Address: 311 W Cornelius Harnett Blvd, Lillington, NC Zip Code 27546
Owner/Authorized Agent: Coley Price Phone # (910) 893-7555 E-Mail: cprice@harnett.org
Owned By: City County City AHJ: Lillington, County AHJ: Harnett
Code Enforcement Jurisdiction: State

CONTACT: Josh Bennett, Vice President, Moseley Architects, **jbennett@moseleyarchitects.com**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Josh Bennett	13947	(919)840-0091	jbennett@moseleyarchitects.com
Civil	n/a				
Electrical	Moseley Architects	Brian Wells	040202	(804)794-7555	bwells@moseleyarchitects.com
Fire Alarm	Moseley Architects	Brian Wells	040202	(804)794-7555	bwells@moseleyarchitects.com
Plumbing	Moseley Architects	Jason Forsyth	037569	(804)794-7555	jforsyth@moseleyarchitects.com
Mechanical	Moseley Architects	Jason Forsyth	037569	(804)794-7555	jforsyth@moseleyarchitects.com
Sprinkler-Standpipe	n/a				
Structural	n/a				

2018 NC BUILDING CODE: N/A

2018 NC EXISTING BUILDING CODE: Alteration Level II N/A N/A
CONSTRUCTED: (date) 1994 **CURRENT OCCUPANCY(S)** (Ch. 3)**:** B
RENOVATED: (date) 2020 Addition Added **PROPOSED OCCUPANCY(S)** (Ch. 3)**:** B

RISK CATEGORY (Table 1604.5): **Current:** II **Proposed:** II

BASIC BUILDING DATA
Construction Type: Existing Addition: Type II-B
Sprinklers: No
Standpipes: Class I - Wet
Primary Fire District: Yes **Flood Hazard Area:** No
Special Inspections Required: No

Gross Building Area Table

FLOOR	EXISTING (SF)	NEW (SF)	SUB-TOTAL
3rd Floor	-	-	-
2nd Floor	5,215 SF	-	5,215 SF
Mezzanine	-	-	-
1st Floor	-	-	-
Basement	-	-	-
TOTAL	5,215 (SF)	0	5,215 (SF)

TOTAL SCOPE OF WORK AREA: 5,215 SF
PROJECT SCOPE OF WORK DESCRIPTION: 1st time interior completion upfit of office space to the level 2 shell space of the 2020 Addition to the existing DSS building.

ALLOWABLE AREA

Primary Occupancy Classification(s): Business
Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: No Separation: N/A Exception: N/A
Non-Separated Use (508.3)

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	Existing B	Existing to Remain	Existing to Remain	Existing to Remain	Existing to Remain

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase I_f = 100[F/P – 0.25] x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	Existing to Remain	Existing	-
Building Height in Stories (Table 504.4) [3]	Existing to Remain	2, Existing	-

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	30'	0	0 (Existing)				
Bearing Walls		0	N/A				
Exterior		0	N/A				
North		0	N/A				
East		0	N/A				
West		0	N/A				
South		0	N/A				
Interior		0	N/A				
Nonbearing Walls and Partitions Exterior walls		0	0 (Existing)				
North		0	0 (Existing)				
East		0	0 (Existing)				
West		0	0 (Existing)				
South		0	0 (Existing)				
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0	0 (Existing)				
Floor Ceiling Assembly		0	0 (Existing)				
Columns Supporting Floors		0	0 (Existing)				
Roof Construction, including supporting beams and joists		0	0 (Existing)				
Roof Ceiling Assembly		0	0 (Existing)				
Columns Supporting Roof		0	0 (Existing)				
Shaft Enclosures - Exit		1	1 (Existing)				
Shaft Enclosures - Other		1	1 (Existing)				
Corridor Separation		0	0 (Existing)				
Occupancy/Fire Barrier Separation		1	1 (Existing)				
Party/Fire Wall Separation		0	0 (Existing)				
Smoke Barrier Separation		0	0 (Existing)				
Smoke Partition		0	0 (Existing)				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		0	0 (Existing)				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
N/A (Existing)	N/A (Existing)		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.0 (NC Existing Building Code, Section 703 & 704)

- ☒ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☒ Occupant loads for each area
- ☒ Exit access travel distances (1017)
- ☒ Common path of travel distances (Tables 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 can accommodate based on egress width (1005.3)
- ☒ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire 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 (1010.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☐ 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 I-2 (407.5)
- ☐ 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
N/A							

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE		
Existing	-	-	-	-	-		Existing
TOTAL							Existing

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	-	-	-	-	-	-	-	-	-	-
	REQ'D	Occupant load unchanged by renovation; Existing to Remain									

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

_____

_____

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 portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Select one Existing to Remain

Exempt Building: Select one (Unaltered portions) Provide code or statutory reference: 2018 NC ECC C501.1.1

Climate Zone: 4A

Method of Compliance: Select one
(If "Other" specify source here) 2018 NC ECC Chapter 5 (Existing Buildings)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

(EXISTING TO REMAIN)

DESIGN LOADS:

Importance Factors: Snow (I_S) N/A – Existing to Remain
Seismic (I_E) N/A – Existing to Remain

Live Loads: Roof N/A psf
Mezzanine N/A psf
Floor N/A psf

Ground Snow Load: N/A psf

Wind Load: Ultimate Wind Speed N/A (ASCE-7)
Exposure Category N/A

SEISMIC DESIGN CATEGORY: N/A
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) N/A
Spectral Response Acceleration S_S N/A %g S_1 N/A %g
Site Classification (ASCE 7) N/A
Data Source: N/A
Basic structural system N/A
Analysis Procedure: N/A
Architectural, Mechanical, Components anchored? N/A

LATERAL DESIGN CONTROL: N/A

SOIL BEARING CAPACITIES:
N/A psf
Pile size, type, and capacity N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 22.7°F
summer dry bulb: 97°F

Interior design conditions
winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: 50% RH

Building heating load: Existing to Remain

Building cooling load: Existing to Remain

Mechanical Spacing Conditioning System
Unitary
description of unit: N/A
heating efficiency: N/A
cooling efficiency: N/A
size category of unit: N/A
Boiler
Size category. If oversized, state reason.: Existing to Remain
Chiller
Size category. If oversized, state reason.: Existing to Remain

List equipment efficiencies: Existing to Remain

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code - Prescriptive

Lighting schedule (each fixture type) – REFER TO LIGHT FIXTURE SCHEDULE
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed – 0.675 w/sqft vs 0.82 (whole building)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

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JOSHUA M. BENNETT 02-07-2024 NORTH CAROLINA RALEIGH, NC

FLOOR

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024
REVISIONS
DATE DESCRIPTION

CODE SUMMARY

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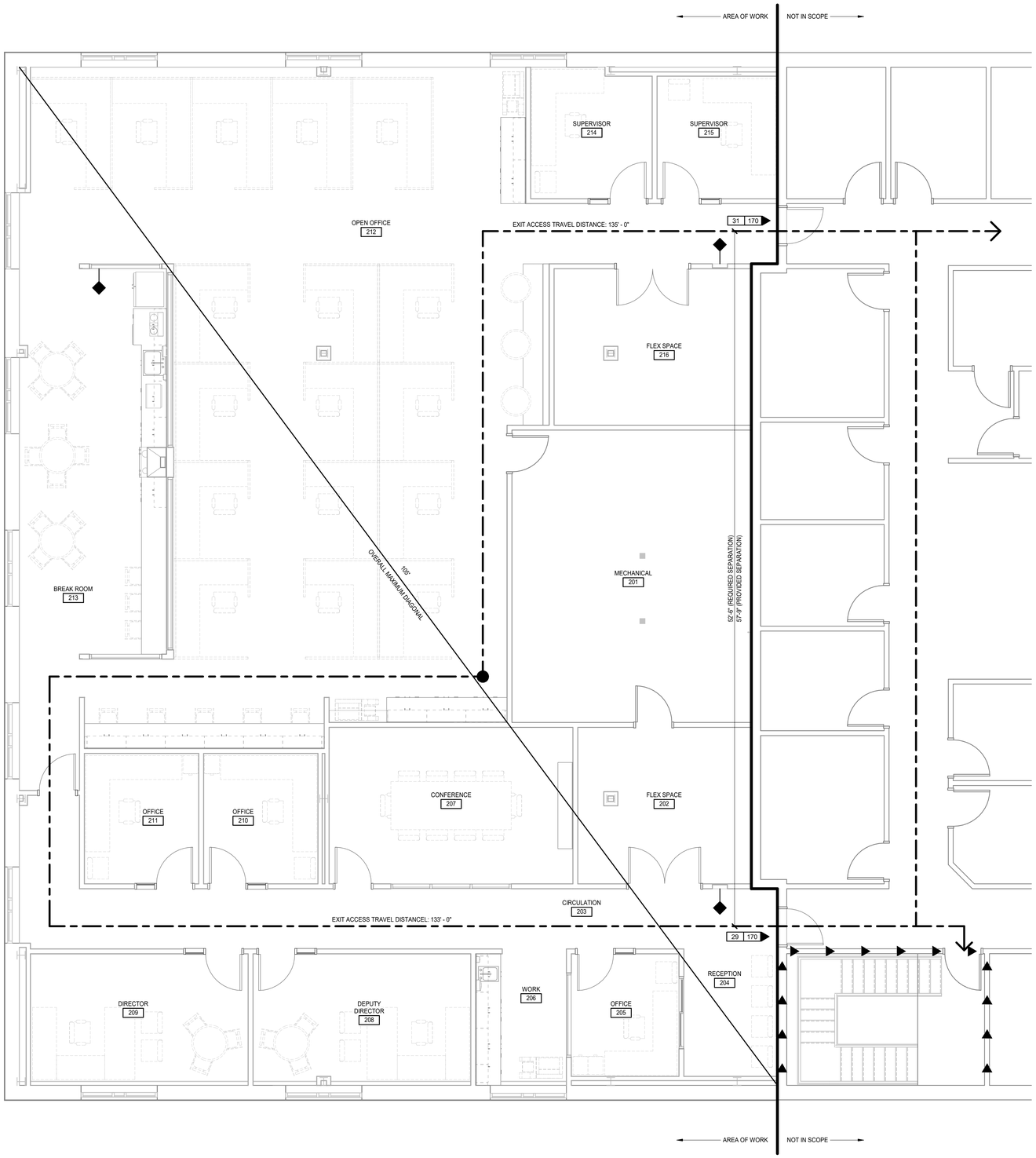

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LIFE SAFETY - SECOND FLOOR PLAN

1/4" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
1 HR FIRE				

NOTES:

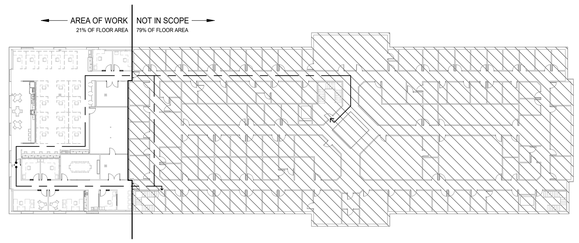
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.
3. ALL RATED CONSTRUCTION SHOWN ON THE DRAWINGS ARE EXISTING AND HAVE BEEN PREVIOUSLY PERMITTED.

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS; EGRESS LOAD CAPACITY; NUMBER OF OCCUPANTS
- 174'-9" TD — EXIT ACCESS TRAVEL DISTANCE
- FIRE EXTINGUISHER CABINET

OCCUPANCY SCHEDULE

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
201	MECHANICAL	S1	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	483	•		2	2	2
202	FLEX SPACE	S1	BUSINESS AREA	100 SF	186	•		2	2	2
203	CIRCULATION	B	BUSINESS AREA	100 SF	353	•		4		4
204	RECEPTION	B	BUSINESS AREA	100 SF	82	•		1	1	1
205	OFFICE	B	BUSINESS AREA	100 SF	91	•		1	1	1
206	WORK	B	BUSINESS AREA	100 SF	82	•		1	1	1
207	CONFERENCE	B	BUSINESS AREA	100 SF	263	•		3	10	10
208	DEPUTY DIRECTOR	B	BUSINESS AREA	100 SF	191	•		2	2	2
209	DIRECTOR	B	BUSINESS AREA	100 SF	191	•		2	2	2
210	OFFICE	B	BUSINESS AREA	100 SF	103	•		2	2	2
211	OFFICE	B	BUSINESS AREA	100 SF	103	•		2	2	2
212	OPEN OFFICE	B	BUSINESS AREA	100 SF	2019	•		21	21	21
213	BREAK ROOM	B	BUSINESS AREA	100 SF	395	•		4		4
214	SUPERVISOR	B	BUSINESS AREA	100 SF	107	•		2	2	2
215	SUPERVISOR	B	BUSINESS AREA	100 SF	102	•		2	2	2
216	FLEX SPACE	S1	BUSINESS AREA	100 SF	212	•		3	2	2
										60



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LIFE SAFETY - SECOND FLOOR PLAN OVERALL

1/32" = 1'-0"

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NORTH CAROLINA
RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY INFORMATION

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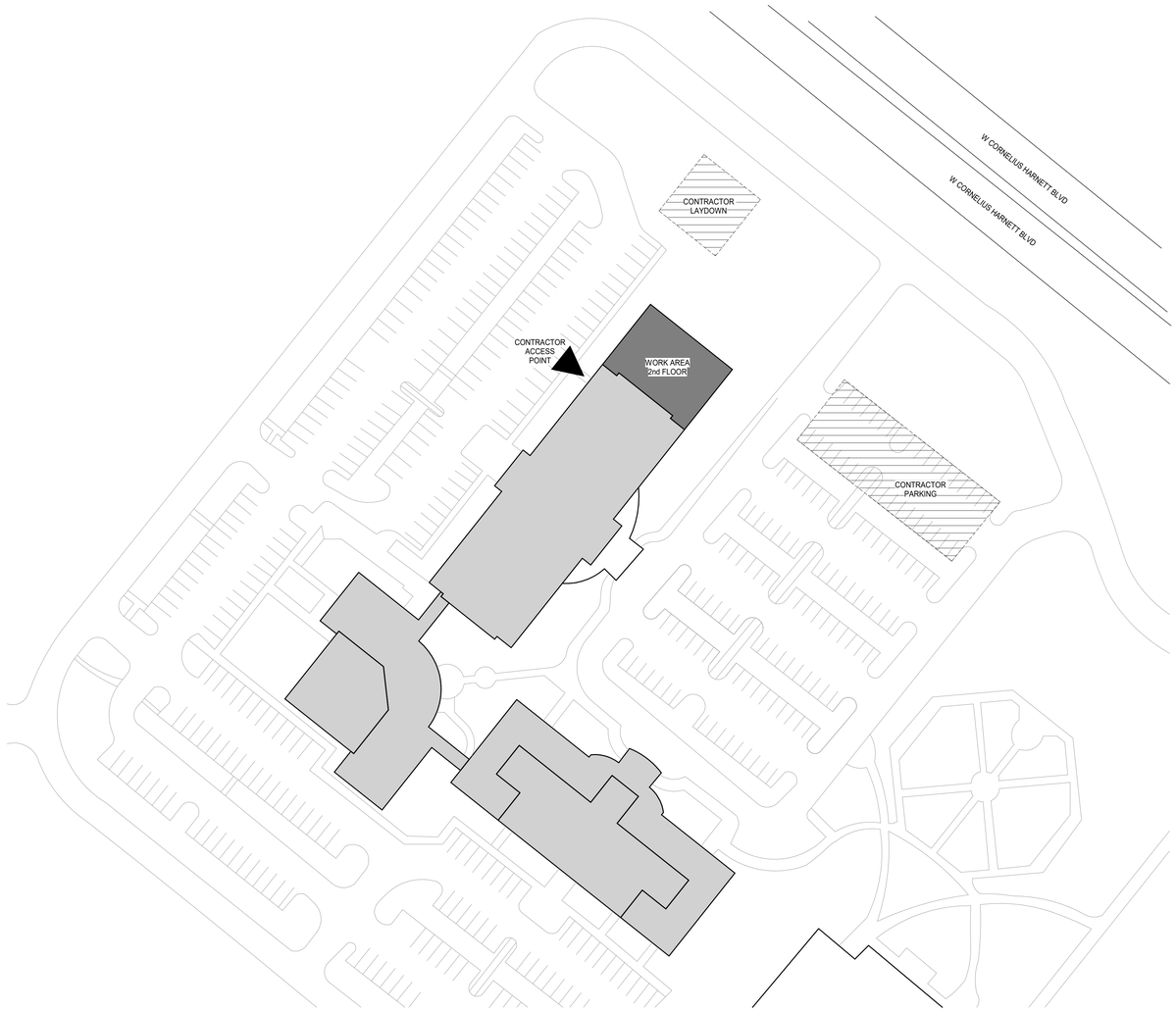
ARCHITECTURAL ABBREVIATIONS

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



N

ARCHITECTURAL SITE PLAN
1" = 50'-0"

KEYNOTES

n — KEYNOTE (1 TO 2 DIGITS)

n(n) — KEYNOTE (3 DIGITS ONLY)

n n/n" — SIZE: THICKNESS: OR OTHER DESCRIPTIVE INFORMATION

1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND

REFER TO A3.0.1 FOR FINISH SCHEDULE — A101 — SUPERVISOR'S OFFICE — SPACE NAME; SPACE NUMBER; 100 SF — SQUARE FOOTAGE, IF INDICATED; BUILDING "PART" NUMBER IN MULTI-PART BUILDING

WALL OR MSC SECTION WHERE CUT — 1 / A2.1 — WALL SECTION NUMBER; DRAWING NUMBER WHERE WALL SECTION IS INDICATED

REFER TO A3.1.1 FOR SCHEDULE — A101 / 60 — DOOR — FIRE RATING IN MINUTES (IF INDICATED); DOOR SUFFIX LETTER WHEN MORE THAN ONE DOOR PER SPACE; SPACE NUMBER

DETAIL OR ENLARGED PLAN WHERE CUT — 1 / A2.1 — DETAIL OR ENLARGED PLAN NUMBER; DRAWING NUMBER WHERE DETAIL OR ENLARGED PLAN IS INDICATED

REFER TO A3.1.1 FOR TYPES — STL / 11 — STEEL FRAME NUMBER

BUILDING SECTION WHERE CUT — 1 / A2.1 — 1 / A2.1 — SECTION NUMBER; DRAWING NUMBER WHERE SECTION IS INDICATED

REFER TO A3.1.1 FOR TYPES — AS / 11 — ALUMINUM STOREFRONT NUMBER

INTERIOR OR EXTERIOR ELEVATION WHERE CUT — 1 / A7.1 / 2 / 3 / 4 — ELEVATION NUMBER; DRAWING NUMBER WHERE ELEVATION IS INDICATED; MULTIPLE ELEVATIONS

PLAN TITLE
1/8"=1'-0"

REFER TO A0.2 FOR LEGEND — Xn-n — WALL PARTITION TYPE; FIRE RESISTANCE RATING IN HOURS — Xn-XX — WALL PARTITION TYPE; SB=SMOKE BARRIER SP=SMOKE PARTITION IU=INCIDENTAL USE

REFER TO A8.1 FOR ELEVATIONS — 9 / A8.3 / A8.1 / 10 — INTERIOR ARCHITECTURAL WOODWORK (CASEWORK) ELEVATION

A / A2.0.1 A2.0.2 A2.0.3 / A4.1 — **ELEVATION OR BUILDING SECTION TITLE** 1/4"=1'-0"
- ELEVATION OR BUILDING SECTION LETTER
- DRAWING NUMBER WHERE ELEVATION OR BUILDING SECTION IS INDICATED
- DRAWING NUMBER WHERE ELEVATION OR BUILDING SECTION IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE ELEVATION OR BUILDING SECTION IS CUT

REFER TO LS1.1 FOR LEGEND — Xn — FIRE-RATED ASSEMBLY

1 / A2.1 A2.2 A2.3 A2.6 / A7.1 — **ENLARGED PLAN OR WALL SECTION TITLE** 1/4"=1'-0"
- ENLARGED PLAN OR WALL SECTION NUMBER
- DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS INDICATED
- DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE ENLARGED PLAN OR WALL SECTION IS CUT

REFER TO A3.1.1 FOR LEGEND — n — GLAZING/GLASS TYPES

1T — EQUIPMENT TYPE

3 / A5.1 A5.2 A5.3 A5.7 — **DETAIL TITLE** 1/2"=1'-0"
- DETAIL NUMBER OR LETTER
- DRAWING NUMBER WHERE DETAIL IS INDICATED
- DRAWING NUMBER WHERE DETAIL IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE DETAIL IS CUT

N — PLAN NORTH (MAY DIFFER FROM POLAR NORTH)

MATCH LINE

1 — **CASEWORK TITLE** 1/4"=1'-0"
- CASEWORK ELEVATION NUMBER

℄ — CENTERLINE

FEC — SURFACE MOUNT FEC: TOP OF CABINET AT 4'-0" AFF

FEC — SEMI-RECESSED FEC: T.O. MASONRY OPENING AT 4'-0" AFF

FEC — FULLY-RECESSED FEC: T.O. MASONRY OPENING AT 4'-0" AFF

FEB — BRACKET: MOUNT BRACKET AT 4'-0" AFF

1 / A — STRUCTURAL GRID LINE WITH DESIGNATIONS

ARCHITECTURAL GENERAL NOTES

A. 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.

B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. 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 LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND

- EARTH
- POROUS FILL
- CONCRETE
- FACE BRICK
- SPLIT-FACE BLOCK
- CONCRETE MASONRY UNIT
- GROUTED SOLID CONCRETE MASONRY UNIT

NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES WOULD BE VISIBLE WITHIN FINISH SPACE (E.G., WINDOW SILLS)

- ARCHITECTURAL PRECAST CONCRETE
- CAST STONE MASONRY
- RIGID INSULATION
- BATT INSULATION
- SPRAYED POLYURETHANE FOAM
- WOOD SHIM
- WOOD BLOCKING - CONTINUOUS
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD / SHEATHING
- STONE

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JOSH N. P. MOSELEY — 02-07-2024 — NORTH CAROLINA — RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

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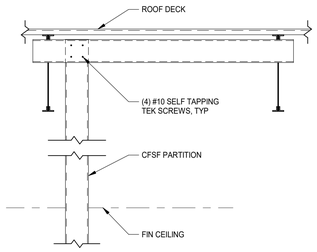
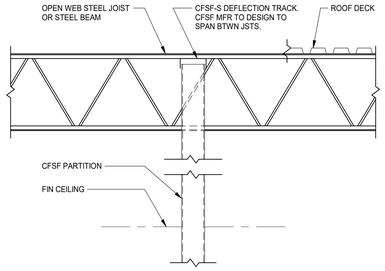
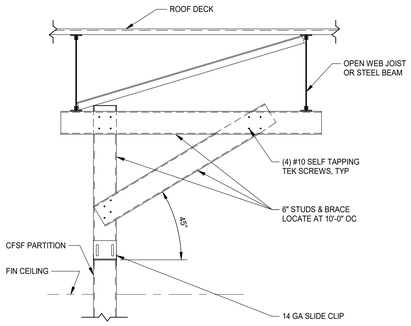


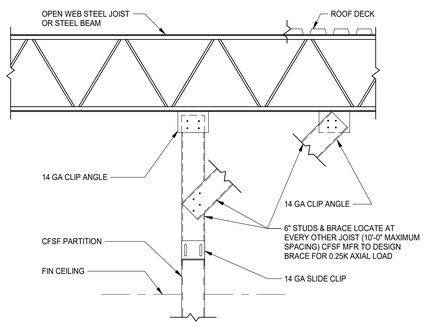
WALL TO DECK - PARALLEL TO JOISTS



WALL TO DECK - PERPENDICULAR TO JOISTS



LOW WALL PARALLEL TO JOISTS

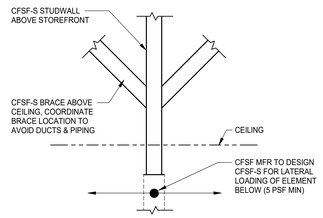


LOW WALL PERPENDICULAR TO JOISTS

NOTES:
1. BRACE INTERIOR CFSF WALLS THAT DO NOT EXTEND TO DECK IN ACCORDANCE WITH THESE DETAILS UNLESS OTHERWISE INDICATED.
2. IN LIEU OF BRACING AT TOPS OF WALLS, BRACING MAY BE PROVIDED BY INTERSECTING WALLS WHEN THE DESITANCE BETWEEN THE INTERSECTING WALLS DOES NOT EXCEED 10'-0".
3. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITION TYPES AND LOCATIONS.
4. INSTALL BRACING AFTER ALL ROOF DEAD LOAD IS IN PLACE.

BRACING DETAILS FOR INTERIOR CFSF PARTITIONS

NO SCALE



BRACING AT CFSF-S STUDWALL DETAIL

NO SCALE

TERMINATION GENERAL NOTES

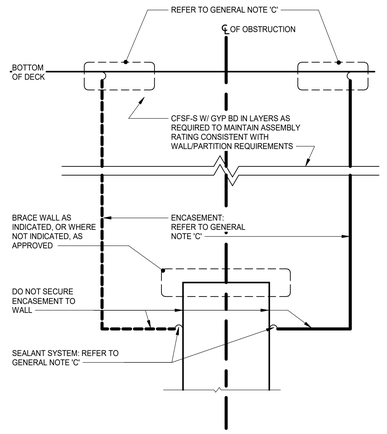
A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

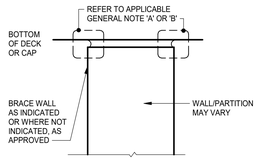
- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION

OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.

C. ALL INTERIOR CFSF PANEL PARTITIONS: **P1** UNLESS INDICATED OTHERWISE.

D. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

E. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.

- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

F. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:

- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

G. SEAL AROUND ALL PENETRATIONS.

H. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

I. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

J. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE **P2** CHASE CONSTRUCTION.

- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

K. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

L. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.

M. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

N. PROVIDE CORNERGUARDS AT ALL OUTSIDE CORNER LOCATIONS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

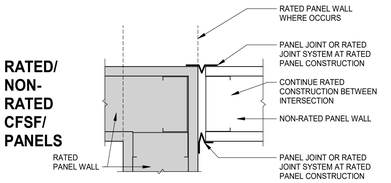
PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1 **P1a**	⬡	--	4 7/8" 5/8" GYP BD 3-1/2" SAB 3-5/8" CFSF-NS 3-5/8" CFSF-S @ P1a
P2 **P2a**	⬡	--	4 1/4" 5/8" GYP BD 3-1/2" SAB @ P2a 3-5/8" CFSF-NS
P3	⬡	--	7 1/4" 5/8" GYP BD 5-1/2" SAB 6" CFSF-S

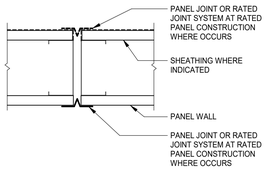
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

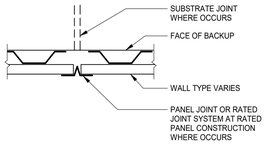


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

CFSF/ PANELS



PANEL



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JOSHUA N. MOSELEY 02-07-2024 NORTH CAROLINA RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

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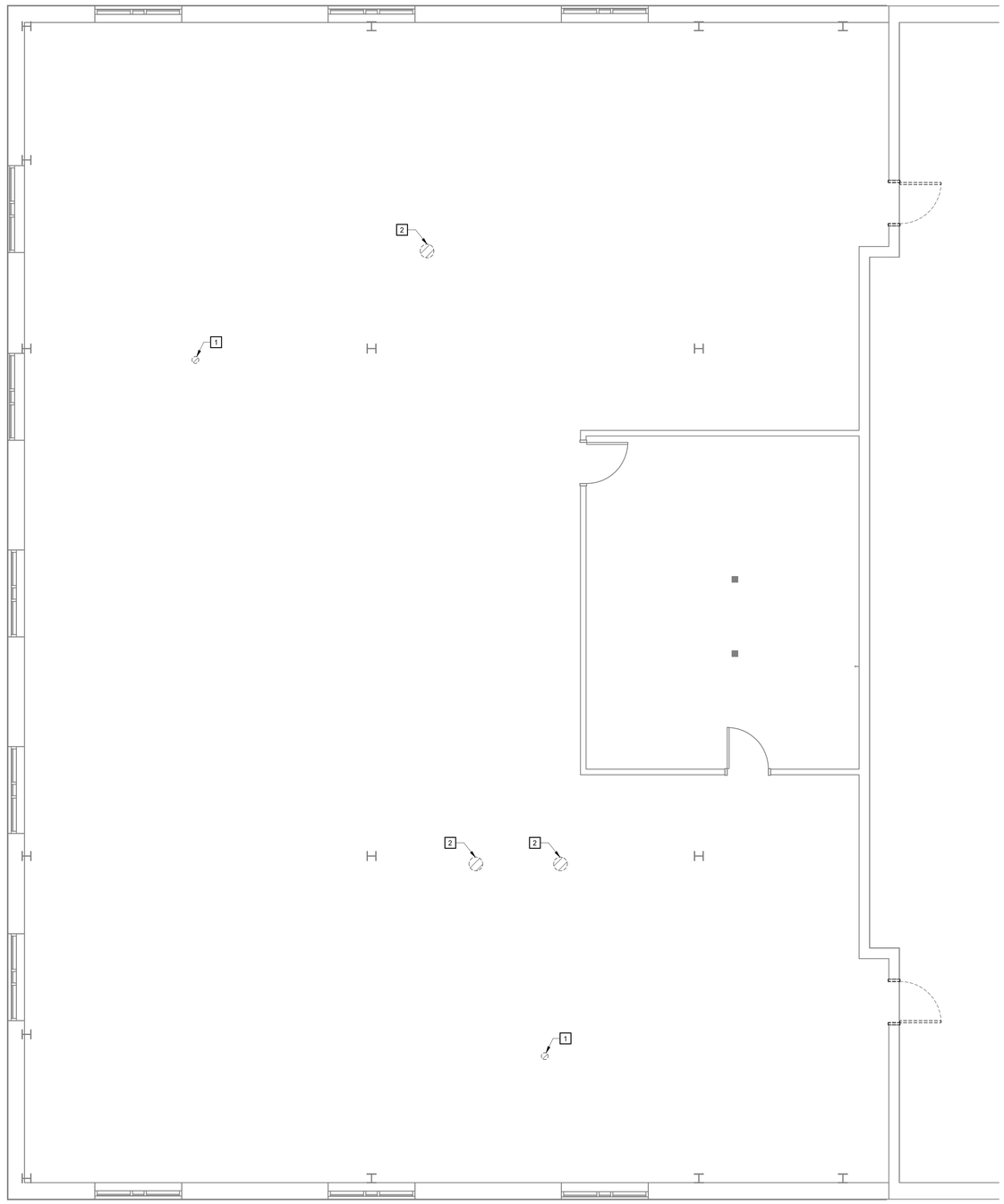

N

SECOND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING DOOR ONLY; FRAME ASSEMBLY, ANCHORS, AND THRESHOLD (WHERE OCCURS) ARE TO REMAIN; DOOR HARDWARE TO BE RETURNED TO OWNER

DEMOLITION PLAN GENERAL NOTES

A. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2

1	COORDINATE DEMOLITION WITH PLUMBING SCOPE OF WORK
2	COORDINATE DEMOLITION WITH ELECTRICAL SCOPE OF WORK

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HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLAN

A1.2

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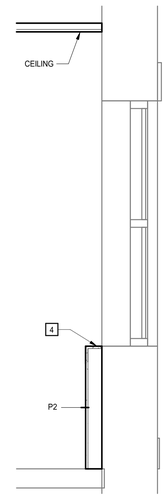
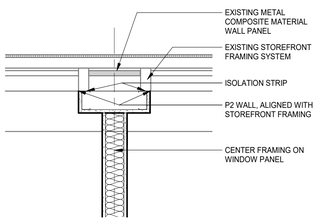
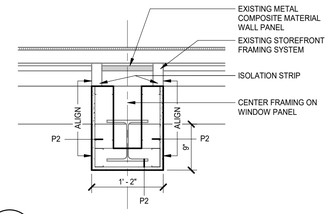


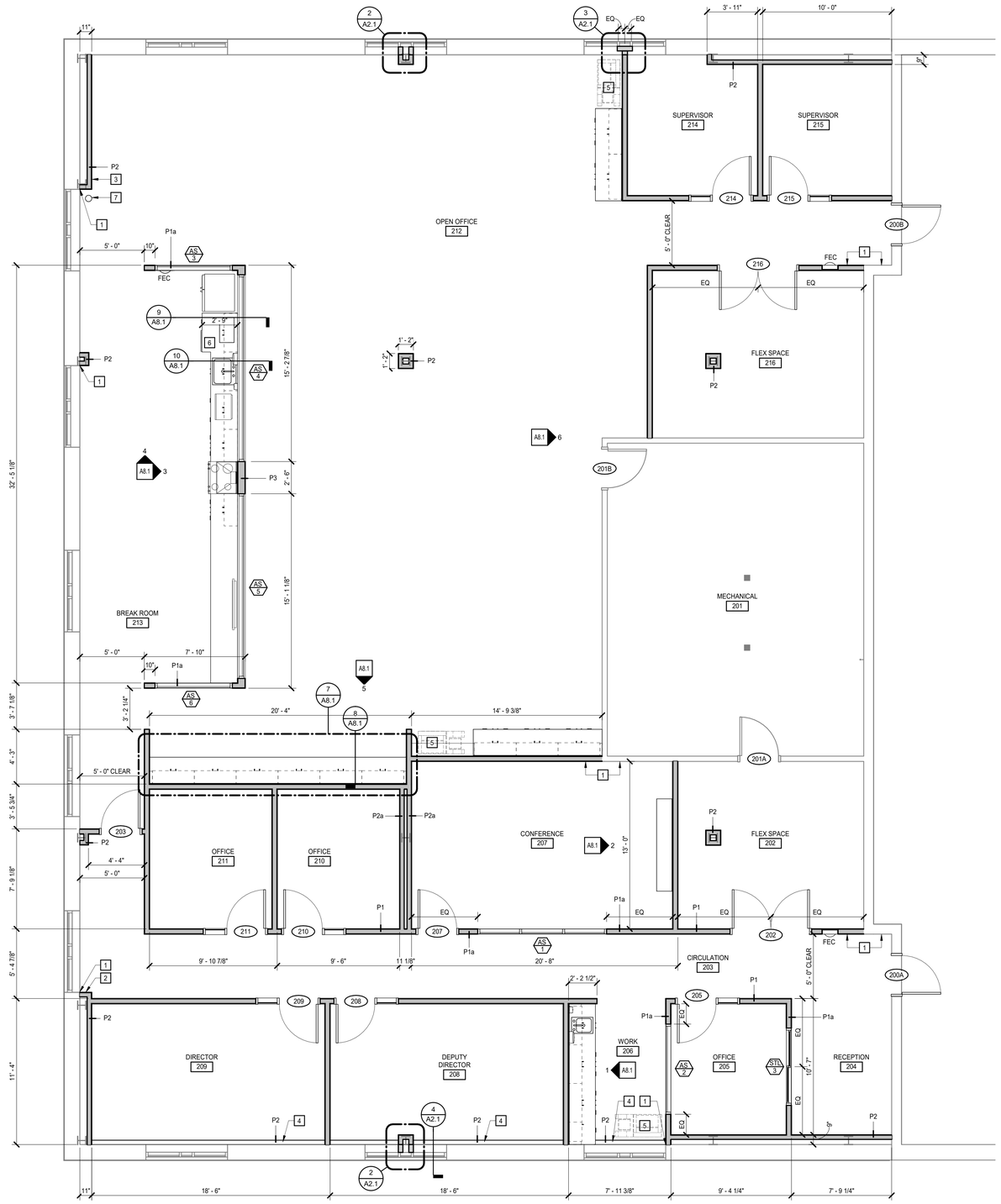
4 WALL SECTION (A2.1 A2.1)
3/4" = 1'-0"



3 PLAN DETAIL (A2.1 A2.1)
1" = 1'-0"



2 PLAN DETAIL (A2.1 A2.1)
1" = 1'-0"



N SECOND FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. VERIFY IN FIELD ALL P2 WALL LOCATIONS AND ENSURE WALLS ARE TIGHT TO EXISTING STRUCTURE.

B. VERIFY IN FIELD ALL WALL LOCATIONS THAT ALIGN TO AN EXISTING WALL AND/OR WINDOW CONDITION. COORDINATE WITH ARCHITECT IF THERE ARE DISCREPANCIES WITH EXISTING CONDITIONS OR DIMENSIONS SHOWN.

C. VERIFY IN FIELD ALL WALL LOCATIONS THAT ARE TO CONCEAL AN EXISTING PIPE OR SIMILAR CONDITION. COORDINATE WITH ARCHITECT IF THERE ARE DISCREPANCIES AND/OR ADJUSTMENTS NEEDED.

D. COORDINATE THE WORK OF ALL TRADES. VERIFY LOCATIONS AND EXTENT OF INSERTS, ANCHORS, PENETRATIONS, ETC., REQUIRED BY PLUMBING, MECHANICAL, AND ELECTRICAL TRADES.

E. PATCH, REPAIR AND PAINT ALL EXISTING GYP BD SURFACES TO CREATE A SEAMLESS TRANSITION AND UNIFORM APPEARANCE.

F. SIGNAGE: GC SHALL PROVIDE AND INSTALL SIGNAGE, ALL ROOMS TO MATCH EXISTING, TYPICAL.

FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1

1	ALIGN TO EXISTING WALL AND/OR JAMB CONDITION
2	FRAME TIGHT AROUND EXISTING PIPE AT BASE OF WINDOW AND FOLLOW PIPE ANGLE TO MINIMIZE OVERLAP OF WINDOW, PROVIDE ACCESS PANEL, REFER TO IMAGE A FOR REFERENCE
3	FRAMING TO CONCEAL EXISTING PIPE, PROVIDE ACCESS PANEL, REFER TO IMAGE B FOR REFERENCE
4	P2 LOW WALL AT EXTERIOR WALL, RETURN GYP AT TOP OF WALL AND ALIGN TO EXISTING WINDOW SILL, PATCH AND CONCEAL JOINT, REFER TO 4/A2.1
5	PRINTER / COPIER, NIC - OWNER FURNISHED, OWNER INSTALLED
6	33" DEEP COUNTERTOP ABOVE ICE MAKER AND DRAWERS, REFER TO ELEVATION
7	LEVEL AND FILL EXISTING PIPE CAVITY IN PREPARTION FOR FLOORING, REFER TO IMAGE B FOR REFERENCE

IMAGE A

IMAGE B

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FLOOR PLAN

A2.1

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N

SECOND FLOOR FINISH PLAN

1/4" = 1'-0"

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	NOTES
201	MECHANICAL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
202	FLEX SPACE	LVT	RB	PT	PT	PT	PT	ACP	
203	CIRCULATION	C-TILE	RB	PT	PT	PT	PT	ACP	
204	RECEPTION	C-TILE	RB	PT	PT	PT	PT	ACP	
205	OFFICE	C-TILE	RB	PT	PT	PT	PT	ACP	
206	WORK	C-TILE	RB	PT	PT	PT	PT	ACP	
207	CONFERENCE	C-TILE	RB	PT	PT	PT	PT	ACP	
208	DEPUTY DIRECTOR	C-TILE	RB	PT	PT	PT	PT	ACP	
209	DIRECTOR	C-TILE	RB	PT	PT	PT	PT	ACP	
210	OFFICE	C-TILE	RB	PT	PT	PT	PT	ACP	
211	OFFICE	C-TILE	RB	PT	PT	PT	PT	ACP	
212	OPEN OFFICE	C-TILE	RB	PT	PT	PT	PT	ACP	
213	BREAK ROOM	LVT	RB	PT	PT	PT	PT	ACP	
214	SUPERVISOR	C-TILE	RB	PT	PT	PT	PT	ACP	
215	SUPERVISOR	C-TILE	RB	PT	PT	PT	PT	ACP	
216	FLEX SPACE	LVT	RB	PT	PT	PT	PT	ACP	

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO BASIS OF DESIGN AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN' NORTH ORIENTATION.

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULE, REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION

INTERIOR FINISH LEGEND - BASIS OF DESIGN

DESCRIPTION	MATERIAL	MANUFACTURER	PRODUCT - COLOR
M1	TRANSISTION STRIP	SCHLUTER SYSTEMS	RENO-TK - STAINLESS STEEL
M2	THRESHOLD	SCHLUTER SYSTEMS	RENO-T STAINLESS STEEL
M3	EDGE TRIM	SCHLUTER SYSTEMS	SCHIENE - STAINNLESS STEEL
M4	HARDWARE PULLS	RICHELIEU	mODERN METAL PULL - 8655; CENTER TO CENTER 5", FINISH TBD
M5	BLINDS		
035300			
P-TILE	CEMENT TILE	TILEBAR	COLOR ONE- OCEAN BLEND-MATTE/GLOSS
64023			
PL-1	PLASTIC LAMINATE	WILSONART	VAPOR STRANDS 4939K-18 LINEARITY FINISH
95100			
ACP	ACOUSTICAL CEILING PANELS	ARMSTRONG	MATCH EXISTING
96513			
RB	RUBBER BASE	ROPPE	TBD
096519			
LVT	LUXURY VINYL TILE	EF CONTRACT	STYLE: WOODLANDS, COLOR: IRONWOOD EFCW001
96813			
C-TILE-A	CARPET TILE	BENTLY	PATTERN: REDUX DEUX; COLOR: REKINDLE 403772
99100			
PT-1	PAINT	PPG PAINTS ARENA	PPG1006-1 GYPSUM
PT-2	ACCENT PAINT	PPG PAINTS ARENA	MATCH PANTONE PMS 556C, HEX #71a28a
PT-3	ACCENT PAINT	PPG PAINTS ARENA	MATCH PANTONE PMS 541C; HEX #003e74
123661.16			
SSM	SOLID SURFACE	FORMICA	ASHEN CONCRETE 607

FINISH PLAN GENERAL NOTES

A. REFER TO A0.1 FOR ABBREVIATION LEGEND.

B. WHERE ONE FINISH IS LISTED ON ALL WALLS OF THE ROOM, THE FINISH PLANS DO NOT SHOW EXTENT OF FINISH. FINISH PLANS AND ELEVATIONS SHOW EXTENT OF MATERIALS WHERE FINISH SCHEDULE LISTS MULTIPLE FINISHES IN ONE ROOM

C. DIRECTIONAL WALL FINISH INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE 'PLAN' NORTH ORIENTATION.

FINISH PLAN LEGEND

C-TILE-1 — WALL FINISH EXTENTS

LVT | CT-1 — FLOOR FINISH TRANSITION, CHANGE OF MATERIAL

CG-X — CORNER GUARD

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FINISH PLAN AND FINISH SCHEDULE

A3.0.1

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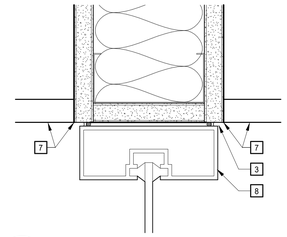
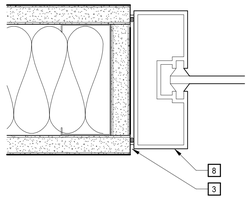
DOOR SCHEDULE

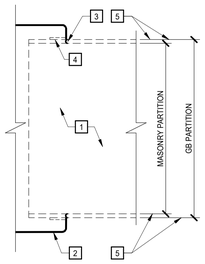
	DOOR						FRAME								
NUMBER	TYPE	SIZE (NOMINAL)	MATL	LOUVER	UC	GLAZING TYPE	TYPE	NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE SET	FIRE RATING	NOTES
200A	N	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	G1	EX	--	--	EX	EX		5.0	--	
200B	N	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	G1	EX	--	--	EX	EX		5.0	--	
202	F	PR 3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	2	A	1/A3.1.1	1/A3.1.1		4.0	--	
203	N	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	G1	STL	2	A	1/A3.1.1	1/A3.1.1		3.0	--	
205	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
207	FG	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	G2	STL	2	A	1/A3.1.1	1/A3.1.1		2.0	--	
208	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
209	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
210	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
211	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
214	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
215	F	3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	1	A	1/A3.1.1	1/A3.1.1		1.0	--	
216	F	PR 3' - 0" x 8' - 0" x 1 3/4"	WD	--	--	--	STL	2	A	1/A3.1.1	1/A3.1.1		4.0	--	



3 A3.1.1 | A3.1.1 **HEAD DETAIL** 6" = 1'-0"

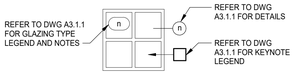


2 A3.1.1 | A3.1.1 **HEAD, JAMB, SILL DETAIL** 6" = 1'-0"



1 A3.1.1 | A3.1.1 **HEAD AND JAMB DETAIL** 6" = 1'-0"

GENERAL NOTES



A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.1.1.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

GLAZING TYPES

REPRESENTED BY: n

1. 1/4" CLEAR
2. 1/4" CLEAR WITH APPLIED PRIVACY FILM

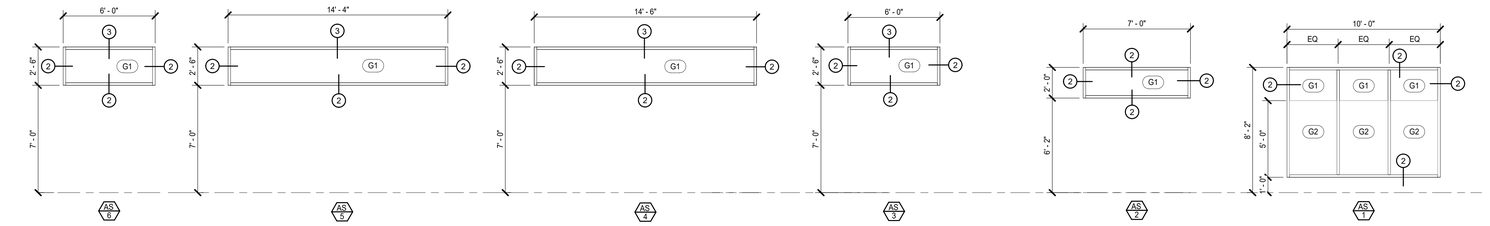
NOTES:
1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO
2. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
3. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

DOOR AND FRAME DETAIL KEYNOTES

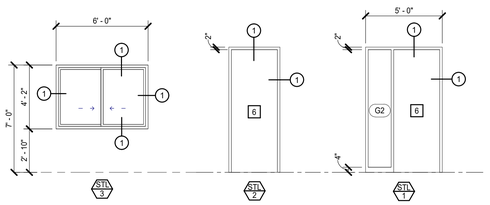
REPRESENTED BY n

APPLIES TO DRAWINGS A3.1.1

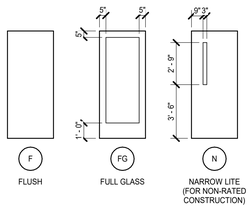
1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
6	SIZE AS REQUIRED TO ACCOMODATE DOOR, HARDWARE, AND FRAME COMPONENTS
7	ADJACENT CEILING, ALIGNED
8	STOREFRONT FRAMING AND GLAZING



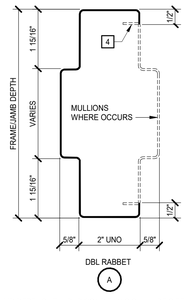
ALUMINUM STOREFRONT TYPES



STEEL FRAME TYPES



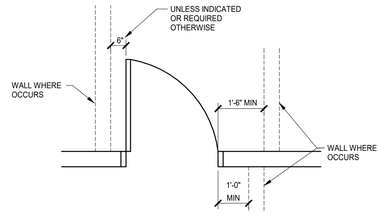
DOOR PANEL TYPES



1. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
2. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS

NO SCALE



MANEUVERING CLEARANCE AT DOORS

NO SCALE

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DOOR AND FRAME SCHEDULE, TYPES, AND DETAILS

A3.1.1

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CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF MAX OR 2'-10" MAX
- 2'-1" DEEP
- SOLID SURFACE WITH UNDERMOUNT SINK AT BREAK RM
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
- EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
- VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO INSTALL. CONSTRUCTION TOLERANCES DO NOT APPLY TO ACCESSIBLITY DIMENSIONS; MAX DIMENSIONS SHALL BE MAINTAINED.

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
- SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE, BASE CABINET DOORS TO HAVE INTEGRAL TOE KICK FOR BARRIER FREE ACCESS

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-0 1/2" DEEP NOMINAL
- 2'-6" HIGH
- TOP AT 7'-0" AFF
- MINIMUM 11" CLEAR INTERIOR DEPTH

D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

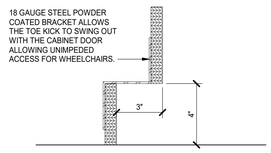
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

CASEWORK KEYNOTES

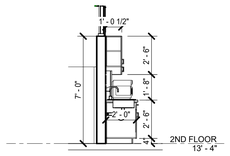
REPRESENTED BY n

APPLIES TO DRAWINGS A8.1

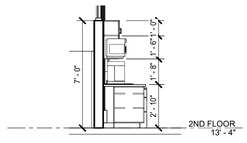
1	WALL MOUNTED TV AND TV BRACKET, PROVIDE BLOCKING IN WALL, REFER TO DIVISION 1 SECTION ALLOWANCES
2	TRANSOM WINDOW
3	ADA SINK CABINET, DOORS TO HAVE INTEGRAL TOE KICK
4	15"D COUNTER W/ BACKSPLASH AND BASE CABINETS
5	PLASTIC LAMINATE OPEN SHELF INSTALLED W/ CONCEALED BRACKETS
6	SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH AND 2-1/2" DIA GROMMETS CENTERED AT EACH SEAT
7	UNDER COUNTER BRACKET SUPPORT; PAINT TO MATCH WALL FINISH
8	PRINTER / COPIER, NIC - OWNER FURNISHED, OWNER INSTALLED
9	REFRIGERATOR, REFER TO DIVISION 1 SECTION ALLOWANCES
10	ICE MAKER, BOD: MANITOWOC UFP0200, REFER TO DIVISION 1 SECTION ALLOWANCES
11	COFFEE MAKER, REFER TO DIVISION 1 SECTION ALLOWANCES
12	MICROWAVE, REFER TO DIVISION 1 SECTION ALLOWANCES
13	DROP IN RANGE
14	RANGE HOOD
15	PULL OUT TRASH
16	PULL OUT RECYCLING
18	BENCH W/ ELECTRICAL OUTLETS IN BASE INCLUDED IN FURNITURE PACKAGE
19	PAPER TOWEL DISPENSER, MOUNT AT 3'-8" AFF TO DISPENSING OUTLET OR OPERABLE PART IF PRESENT (e.g., CRANK, BUTTON, SENSOR)
20	SOAP DISPENSER, MOUNT AT 3'-4" AFF TO DISPENSING OUTLET
21	UNDER CABINET LIGHTING FOR ALL UPPER CABINETS AT THIS LOCATION
22	M3 TILE EDGE TRIM



11 TYP A8.1 **DETAIL - ACCESSIBLE TOEKICK**
3" = 1'-0"

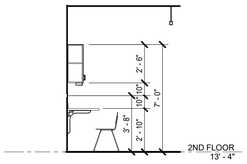


10 TYP A8.1 **SECTION-SINK CABINET**
1/4" = 1'-0"



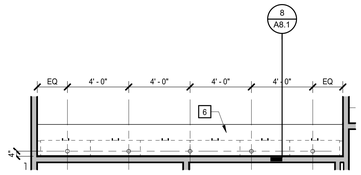
2ND FLOOR
13' - 4"

9 TYP A8.1 **SECTION- MICROWAVE CUBBY**
1/4" = 1'-0"

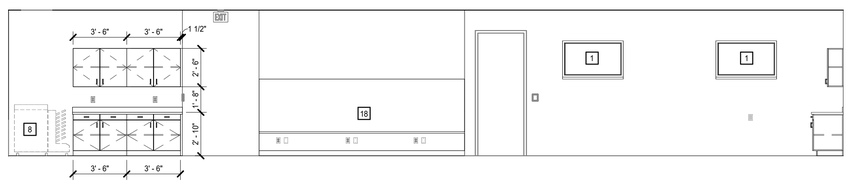


2ND FLOOR
13' - 4"

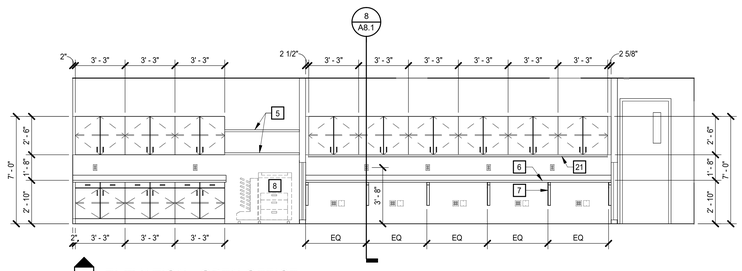
8 TYP A8.1 **SECTION- OPEN OFFICE**
1/4" = 1'-0"



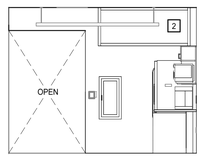
7 A2.1 A8.1 **ENLARGED PLAN - DROP STATIONS**
1/4" = 1'-0"



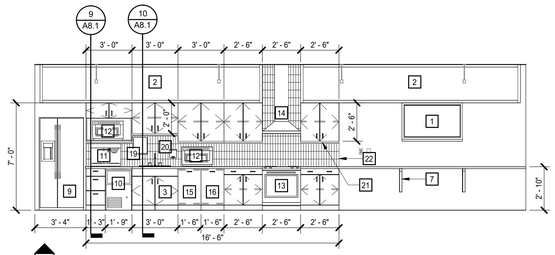
6 **ELEVATION - OPEN OFFICE**
1/4" = 1'-0"



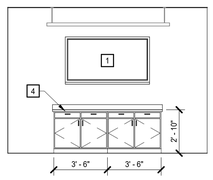
5 **ELEVATION - OPEN OFFICE**
1/4" = 1'-0"



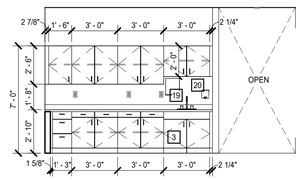
4 **ELEVATION - BREAK ROOM**
1/4" = 1'-0"



3 **ELEVATION - BREAK ROOM**
1/4" = 1'-0"



2 **ELEVATION - CONFERENCE**
1/4" = 1'-0"



1 **ELEVATION - WORK ROOM**
1/4" = 1'-0"

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JOSH . N . R . T
02-07-2024
NORTH CAROLINA
RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

CASEWORK AND ELEVATIONS

A8.1

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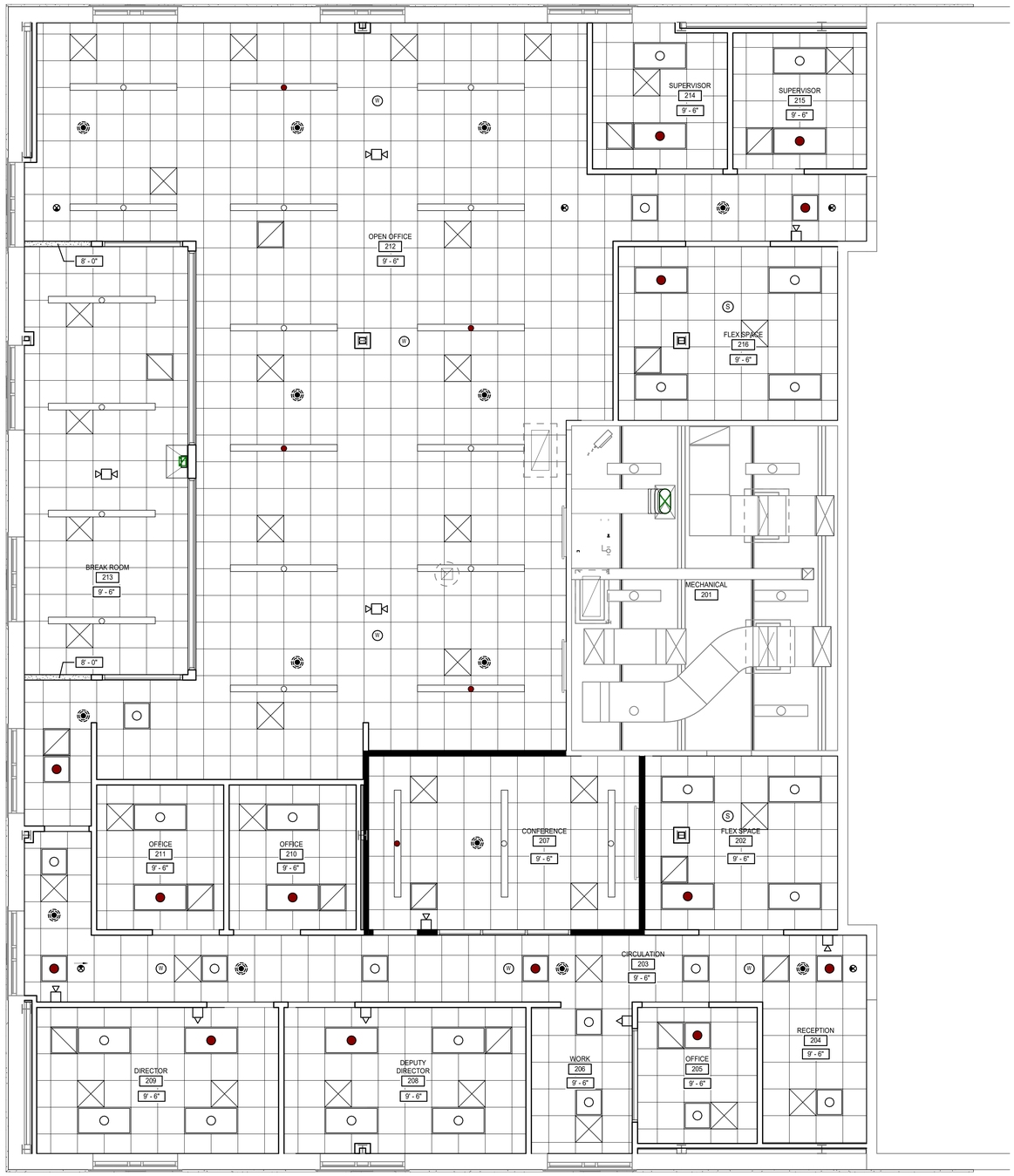


SECOND FLOOR RCP
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1

REFER TO M, AND E FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

OFFICE — SPACE NAME
A101 — SPACE NUMBER
nn'-nn" — CEILING HEIGHT, AFF UNO

2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID

WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK

WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY

WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES

EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 9'-6" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. CENTER AND/OR ALIGN SUSPENDED LIGHTING FIXTURE WITH CEILING PANELS, UNLESS INDICATED OTHERWISE.

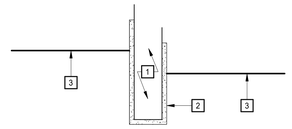
E. PROVIDE METAL BLINDS AT ALL EXTERIOR WINDOW LOCATIONS, MATCH TO LEVEL 1.

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE



BULKHEAD DETAILS

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631797
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REFLECTED CEILING PLAN

A9.1

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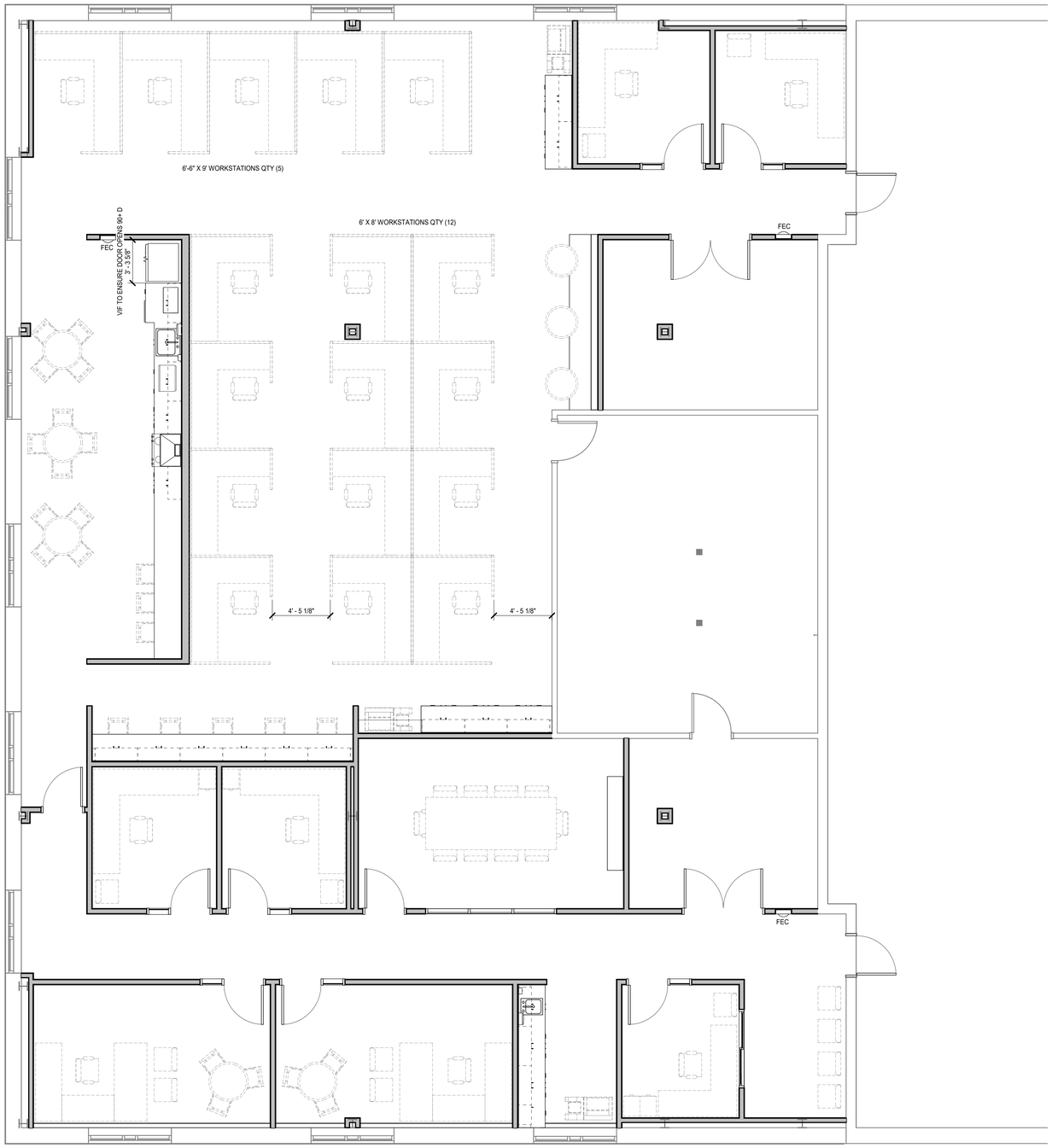

N

SECOND FLOOR FURNITURE PLAN

1/4" = 1'-0"

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02-07-2024

NORTH CAROLINA

RALEIGH, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797

HARNETT CO DSS

311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
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DATE	DESCRIPTION

FURNITURE PLAN

FE2.1

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GENERAL NOTES

A. 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.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

H. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

I. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.

ABBREVIATIONS

@	AT	EWC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EX	EXISTING	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
AFF	ABOVE FINISHED FLOOR	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
AFG	ABOVE FINISHED GRADE	FF	FINISHED FLOOR	PPT	PRESSURE PRESERVATIVE TREATED
AHU	AIR HANDLING UNIT	FFE	FINISHED FLOOR ELEVATION	PREFAB	PREFABRICATE(D)
ALT	ALTERNATE	FG	FINISHED GRADE	PROJ	PROJECT
ALUM	ALUMINUM	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FIX	FIXTURE	PVMT	PAVEMENT
AVG	AVERAGE	FLR	FLOOR	R	RISER
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RCP-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)
BO	BOTTOM OF	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)
BOT	BOTTOM	FS	FLOOR SINK	REF	REFERENCE
BSMT	BASEMENT	FSD	FOUNDATION SUB-DRAIN	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REQMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTER	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING
CO	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET
CONC	CONCRETE	HWR	HOT WATER RETURN	SHT	SHEET
CONDS	CONDENSATE	HWS	HOT WATER SUPPLY	SIM	SIMILAR
CONSTR	CONSTRUCT(ION)	ID	INSIDE DIAMETER	SLT	SEALANT
CONT	CONTINUATION	IN	INCH	SOG	SLAB ON GRADE
CONTR	CONTRACT(-OR)	INSUL	INSULATE OR INSULATION	SP	SUMP PUMP
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION
CP	CIRCULATING PUMP	JAN	JANITOR	SPR	SPRINKLER
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE
CT	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN
CU	COPPER	LAB	LABORATORY	SS	STAINLESS STEEL
CU FT	CUBIC FEET	LAV	LAVATORY	SSD	SECONDARY STORM DRAINAGE PIPING
CU YD	CUBIC YARD	LBS	POUNDS	STD	STANDARD
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL
DB	DRY BULB	LP	PROPANE	STOR	STORAGE
DCW	DOMESTIC COLD WATER	LPV	PROPANE VENT	STRUCT	STRUCTURAL
DEMO	DEMOLISH OR DEMOLITION	MATL	MATERIAL	SUSP	SUSPENDED
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	TD	TRENCH DRAIN
DHR	DOMESTIC HOT WATER RETURN	MECH	MECHANICAL	THK	THICK(-NESS)
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MED	MEDIUM	TLT	TOILET
DHW	DOMESTIC HOT WATER	MFR	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE
DHW(140)	DOMESTIC HOT WATER (140°)	MH	MANHOLE	TOSL	TOP OF SLAB
DI	DROP INLET	MIN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)
DIA	DIAMETER	MISC	MISCELLANEOUS	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	MTD	MOUNTED	UG	UNDERGROUND
DN	DOWN	N	NORTH	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DR-X	COMPRESSED AIR DRYER DESIGNATION	N/A	NOT APPLICABLE/AVAILABLE	V	VENT
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VAC	VACUUM
DT	DRAIN TILE	NG	NATURAL GAS	VB	VACUUM BREAKER
DTL	DETAIL	NGV	NATURAL GAS VENT	VERT	VERTICAL
DTW	DOMESTIC TEMPERED WATER	NIC	NOT IN CONTRACT	VIF	VERIFY IN FIELD
DWG	DRAWING	NO	NORMALLY OPEN	VTR	VENT THROUGH ROOF
DWP	DOMESTIC WATER BOOSTER PUMP	NO., (#)	NUMBER	W	WEST
E	EAST	NOM	NOMINAL	W/	WITH
ED	EMERGENCY SECONDARY ROOF DRAIN	OC	ON CENTER	W/O	WITHOUT
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WCO	WALL CLEANOUT
EQ	EQUAL	OH	OVERHEAD	WSHP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OPNG	OPENING	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OPP	OPPOSITE	WWM	WELDED WIRE MESH
				XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A — SECTION LETTER; P6.1 — DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 — ENLARGED PLAN NUMBER; P6.1 — DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 — DETAIL NUMBER; P6.1 — DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 — SANITARY RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 — DOMESTIC RISER IDENTIFIER; P6.1 — DRAWING WHERE DOMESTIC RISER IS TAGGED

1 DETAIL TITLE — 1/4"=1'-0"
P2.2 P6.2 P2.3 P2.4
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 SANITARY RISER DIAGRAM — 1/4"=1'-0"
P2.2 P4.2 P2.3 P2.4
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 DOMESTIC RISER DIAGRAM — 1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 FUEL GAS RISER DIAGRAM — 1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

PLUMBING FIXTURE SCHEDULE

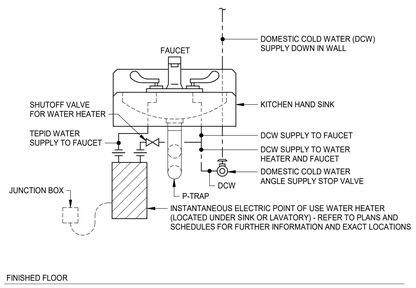
TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE					NOTES
				COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	
EX. HB	EXISTING HOSE BIBB	CENTERLINE OF OUTLET AT 18"	FIXTURE: ZURN Z1341XL	3/4"					
EX. P2-B	EXISTING SINK - DOUBLE BASIN	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ332255 FAUCET: ZURN Z82300-XL-CP8-7M-HS	1/2"		1/2"	1 1/2"	1 1/2"	
SK-1	SINK - SINGLE BASIN BARRIER FREE	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ221955	1/2"		1/2"	1 1/2"	1 1/2"	1,2,3
SK-2	SINK - SINGLE BASIN BARRIER FREE	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ151750	1/2"		1/2"	1 1/2"	1 1/2"	1,2
WSB-1	ICE MAKER OUTLET BOX	BOTTOM AT 8"	FIXTURE: GUYGRAY BIM875QTSAB	1/2"					

NOTES:
1. ALL PLUMBING FIXTURE SHALL CONTAIN THE WATERSENSE LABEL.
2. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE USBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
3. PROVIDE INSINKERATOR BADGER-5 1/2HP 120V PLUG AND CORD UNDER SINK.

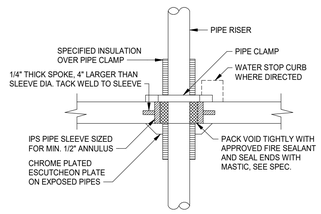
ELECTRIC WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	CAPACITY (GALLONS)	RECOVERY RATE (GPM)	TEMPERATURE RISE (°F)	TEMPERATURE SETTING (°F)	ELECTRICAL DATA				NOTES
	MANUFACTURER	MODEL						INPUT RATE (KW)	VOLTAGE	PHASE	HERTZ	
EWH-1	EEMAX	AM004277T	BREAKROOM	0	0.5	56	95	4.1	277	1	60	

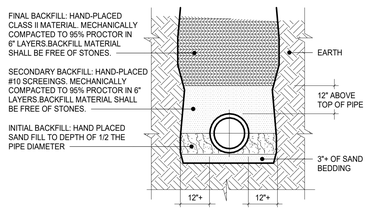
NOTES:
1. INSTANTANEOUS POINT OF USE WATER HEATER.



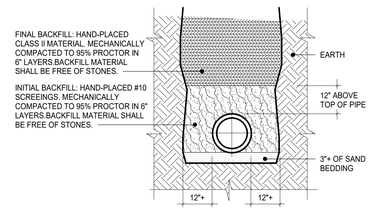
1 INSTANTANEOUS ELECTRIC POINT-OF-USE WATER HEATER DETAIL
12" = 1'-0"



2 PIPE THRU FLOOR SLAB DETAIL
1/8" = 1'-0"



3 PVC PIPE BEDDING DETAIL
12" = 1'-0"



4 CAST IRON PIPE BEDDING DETAIL
12" = 1'-0"

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NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 037569 ENGINEER JOSHUA P. FORSYTH 2/7/24

HARNETT CO DSS UPFIT 2ND FLOOR

631797
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311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

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LEGENDS, ABBREVIATIONS AND GENERAL NOTES

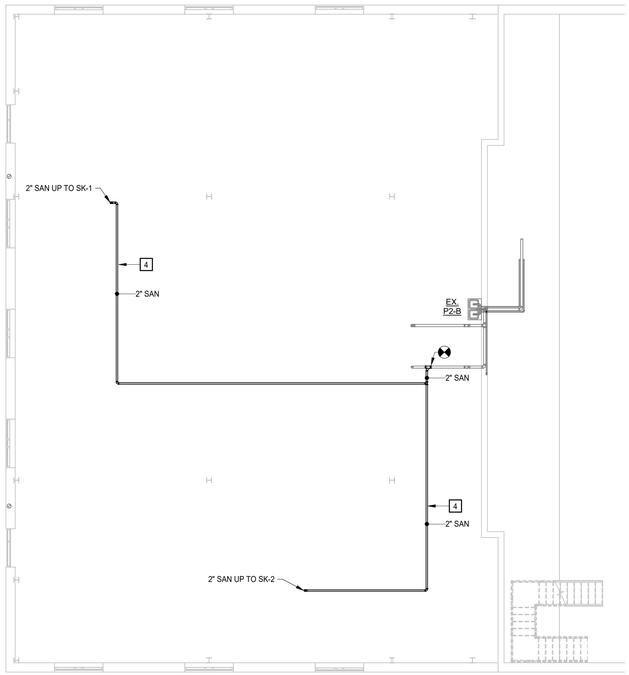
P0.1

2/9/2024 3:26:36 PM

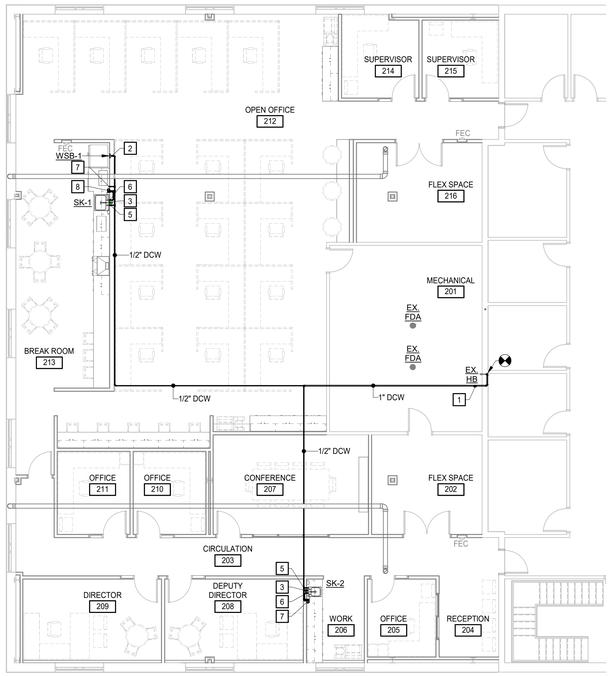
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [n]

1. RESIDENT UNIT ISOLATION VALVE.
2. 1/2" DCW DOWN TO ICE MAKER.
3. 2" VTR.
4. 1-1/2" SAN TO KITCHEN SINK.
5. 1/2" DCW DOWN TO KITCHEN SINK.
6. 1/2" DHW FROM ACCUMIX THERMOSTATIC HEATER TO KITCHEN SINK.
7. 1/2" DCW TO UNDERCOUNTER ICE MAKER.
8. ACCUMIX THERMOSTATIC HEATER.



1 **FIRST FLOOR PLAN - PLUMBING**
1/8" = 1'-0"



2 **SECOND FLOOR PLAN - PLUMBING**
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOHN P FORSYTH 2/7/24

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 07, 2024

REVISIONS	
DATE	DESCRIPTION

PLUMBING FLOOR PLANS

P1.0

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EQUIPMENT ABBREVIATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WATT(S)
W	WITH
WO	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

CONTROL SYMBOL LEGEND

- CIRCULATOR OR PUMP
- MOTORIZED 2-WAY VALVE
- MOTORIZED 3-WAY VALVE
- VFD — VARIABLE FREQUENCY DRIVE
- DDC — DIRECT DIGITAL CONTROLLER
- T — THERMOSTAT
- FZ — FREEZESTAT
- C — CONTACTOR
- R — RELAY
- S — SPACE TEMPERATURE SENSOR
- T — LINE VOLTAGE THERMOSTAT
- HAND-OFF-AUTOMATIC SWITCH
- SD — DUCT-MOUNTED SMOKE DETECTOR
- TRANSFORMER
- FUSE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- WIRING OR DEVICE PROVIDED UNDER DIVISION 23
- WIRING OR DEVICE NOT PROVIDED UNDER DIVISION 23
- WIRING CONNECTION BY DIVISION 23
- WIRING CONNECTION BY OTHERS
- NUMBER OF CONDUCTORS INDICATED BY SLASH MARKS
- MOTORIZED PARALLEL BLADE DAMPER
- MOTORIZED OPPOSED BLADE DAMPER
- MOTORIZED BUTTERFLY BLADE DAMPER
- SUPPLY, RETURN, OR EXHAUST FAN
- AIRFLOW DIRECTION
- CONTROL POINT INDICATOR — AI / TS — INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR)
- CONTROL POINT INDICATOR — AI / TS — INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR WITH AVERAGING ELEMENT)
- CONTROL POINT INDICATOR — AI / TS — INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (WATER TEMPERATURE SENSOR WITH BULB TYPE ELEMENT IN PIPING WELL)
- CONTROL POINT INDICATOR — AI / CSR — INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (CURRENT SENSING RELAY)

GRAPHIC SYMBOL LEGEND

- CORRIDOR / A101 — SPACE TAG: SPACE NAME, SPACE NUMBER, BUILDING "PART" NUMBER IN MULTI-PART BUILDING
- AHU-12 — EQUIPMENT TAG: EQUIPMENT NUMBER, EQUIPMENT ABBREVIATION
- S1 / 325 — DIFFUSER, GRILLE OR REGISTER TAG: TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE; AIRFLOW (CFM)
- 1 / M5.1 — DETAIL TAG: DETAIL NUMBER, DRAWING WHERE DETAIL IS INDICATED
- 15 — KEYNOTE
- C — STRUCTURAL GRID LINE WITH DESIGNATION
- EXISTING TO BE REMOVED
- 1 / M5.1 / M2.2 / M2.3 / M2.4 — DETAIL TITLE, 1/4"=1'-0": DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS REFERENCED; ADDITIONAL DRAWING REFERENCES
- 1 / M4.1 / M2.2 / M2.3 / M2.4 — SECTION TITLE, 1/4"=1'-0": SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS REFERENCED; ADDITIONAL DRAWING REFERENCES
- 1 / M4.1 — SECTION CALLOUT: SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED
- 1 / M3.1 — ENLARGED PLAN CALLOUT: ENLARGED PLAN NUMBER; DRAWING WHERE ENLARGED PLAN IS INDICATED
- MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED

DUCTWORK LEGEND

- 18x8 — RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)
- 18ø — ROUND DUCT SIZE
- 18/12 — FLAT OVAL DUCT SIZE
- 18ø — DOUBLE WALL, EXPOSED DUCT
- 18ø — FABRIC DUCT
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTOR
- SD — DUCT-MOUNTED SMOKE DETECTOR
- DUCT WITH DUCT LINER
- DUCT ACCESS DOOR
- DUCT WITH END CAP
- LINEAR SLOT DIFFUSER, LENGTH AS INDICATED
- LINEAR BAR GRILLE, LENGTH AS INDICATED
- SUPPLY DIFFUSER
- RETURN OR EXHAUST GRILLE
- SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- SUPPLY AIRFLOW ARROW
- RETURN OR EXHAUST AIRFLOW ARROW
- UC — DOOR UNDERCUT
- DL — DOOR LOUVER
- SENSOR WELL
- MANUAL BALANCING DAMPER IN DUCT
- FIRE DAMPER IN DUCT
- SMOKE DAMPER IN DUCT
- COMBINATION FIRE/SMOKE DAMPER IN DUCT
- FIRE DAMPER WITH SECURITY BARS IN DUCT
- SB — SMOKE DAMPER WITH SECURITY BARS IN DUCT
- SB — COMBINATION FIRE/SMOKE DAMPER WITH SECURITY BARS IN DUCT
- M — MOTORIZED DAMPER IN DUCT
- SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT
- M — SMOKE CONTROL MOTORIZED DAMPER IN DUCT
- SB — SECURITY BARS IN DUCT
- AP — DUCT WITH ACCESS PANEL
- TO / AWAY — SUPPLY/MAKEUP AIR DUCT SECTIONS
- TO / AWAY — RETURN AIR DUCT SECTIONS
- TO / AWAY — EXHAUST AIR DUCT SECTIONS
- SD — SMOKE DETECTOR
- H — HUMIDITY SENSOR
- T — THERMOSTAT, LINE VOLTAGE
- T — THERMOSTAT, LOW VOLTAGE
- S — TEMPERATURE SENSOR
- C — CARBON DIOXIDE SENSOR
- CM — CARBON MONOXIDE SENSOR

PIPING LEGEND

- CO — END OF LINE CLEANOUT PLUG
- CO — CLEANOUT PLUG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- UNION
- STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION
- FLEXIBLE PIPE CONNECTOR
- MA — MANUAL AIR VENT
- VALVE
- MANUAL BALANCING VALVE WITH FLOW TAPS
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- TRIPLE DUTY VALVE
- GAS COCK
- P — PRESSURE-RELIEF VALVE
- M — TWO-WAY CONTROL VALVE
- M — THREE-WAY CONTROL VALVE
- DIRECTION OF FLOW

GENERAL NOTES

A. 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.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.

O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER ROBERT FORSYTH

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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FAN POWERED TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE				FAN				COIL								ELECTRICAL DATA					WEIGHT (LBS)
			INLET DIAMETER (IN)	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	APD AT MAXIMUM AIR FLOW (IN WC)	FAN SIZE	MOTOR (HP)	AIRFLOW (CFM)	ESP (IN WC)	DESIGN AIRFLOW (CFM)	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	EWT (°F)	LWT (°F)	ROWS (NO)	FLA (A)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
VAV-1	TRANE	VSWF	6	400	60	0.24	03SQ	1/3	400	0.25	400	12,170	67.5	98.7	0.5	0.07	180	131.3	1	2.4	3.0	15	277	1	60	88
VAV-3	TRANE	VSWF	6	280	60	0.13	03SQ	1/3	280	0.25	280	11,480	66.8	104.6	0.5	0.07	180	134.1	1	2.4	3.0	15	277	1	60	88
VAV-4	TRANE	VSWF	5	350	60	0.22	03SQ	1/3	350	0.25	350	12,130	67.1	99.0	0.5	0.07	180	131.5	1	2.4	3.0	15	277	1	60	88
VAV-5	TRANE	VSWF	10	1200	210	0.39	04SQ	1/2	1200	0.25	1200	25,150	67.4	86.7	1.0	0.25	180	129.7	1	3.5	4.4	15	277	1	60	103
VAV-6	TRANE	VSWF	10	920	215	0.27	03SQ	1/3	920	0.25	920	19,910	66.5	86.5	1.0	0.15	180	126.9	1	2.4	3.0	15	277	1	60	92
VAV-7	TRANE	VSWF	8	680	105	0.29	03SQ	1/3	680	0.25	680	13,840	67.7	86.4	0.5	0.07	180	124.6	1	2.4	3.0	15	277	1	60	89
VAV-8	TRANE	VSWF	6	285	60	0.10	03SQ	1/3	285	0.25	285	11,080	66.3	108.0	0.5	0.07	180	135.7	1	2.4	3.0	15	277	1	60	88

TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE				COIL									WEIGHT (LBS)
			INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN-WC)	DESIGN AIRFLOW (CFM)	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	FLUID PRESSURE DROP (FT WC)	EWT (°F)	LWT (°F)	ROWS (NO)	
VAV-2	TRANE	VCWF	6	360	100	0.23	100	6,150	55	111.7	0.5	0.5	180	157.7	1	25.2

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	NOTES
S1	PRICE	ASCD	LAY-IN	8ø	24x24	-
S2	PRICE	ASCD	LAY-IN	8ø	24x24	-
S3	PRICE	ASCD	LAY-IN	10ø	24x24	-
R1	PRICE	635-TB-L	LAY-IN	22x22	24x24	1

NOTES:
1. PROVIDE RETURN AIR CANOPY FOR EACH.

EXISTING AIR HANDLING UNIT SCHEDULE

TAG	DESIGN AIRFLOW (CFM)	MAXIMUM OUTSIDE AIR DESIGN AIRFLOW (CFM)	MINIMUM OUTSIDE AIR FLOW (CFM)	HYRONIC COOLING COIL					HYDRONIC HEATING COIL					NOTES
				TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	HEATING AIR FLOW (CFM)	SENSIBLE CAPACITY (BTUH)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	
AHU-30	4,400	750	310	158,200	122,000	45	61	20	2,500	114,200	180	160	12	1

NOTES:
1. UNIT IS EXISTING TO REMAIN. PERFORM PRE-CONSTRUCTION TEST AND BALANCE TO DETERMINE EXISTING TOTAL AIRFLOW AND OUTSIDE AIRFLOW. RE-BALANCE UNIT TOTAL AIRFLOW AND OUTSIDE AIR INTAKE TO VALUES LISTED.

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOSHUA FORSYTH

FLOOR

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS

DATE	DESCRIPTION

SCHEDULES

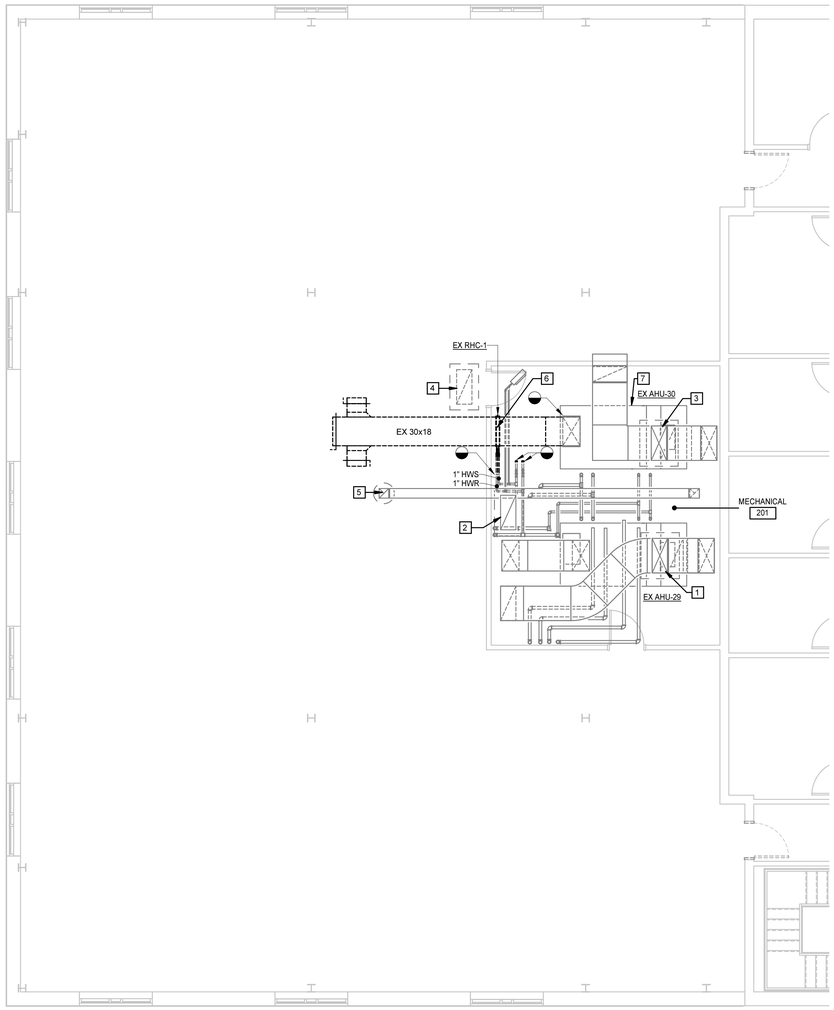
M0.2

2/7/2024 8:45:27 AM

KEYNOTES

APPLIES TO THIS DRAWING

1. EX 36x16 UP TO EX IH-29.
2. EX 16x36 UP TO EX RH-29.
3. EX 36x16 UP TO EX IH-30.
4. EX 16x36 UP TO EX RH-30.
5. EX 10x10 UP TO EX EF-29-01.
6. REMOVE EXISTING HOT WATER COIL AND ALL ASSOCIATED ACCESSORIES.
7. PERFORM PRE-CONSTRUCTION TESTING FOR AIR HANDLING UNIT PRIOR TO ANY DEMOLITION WORK. REFER TO SPECIFICATION SECTION 014520 FOR REQUIREMENTS.



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SECOND FLOOR PLAN - DEMOLITION

3/16" = 1'-0"

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HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

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REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLAN

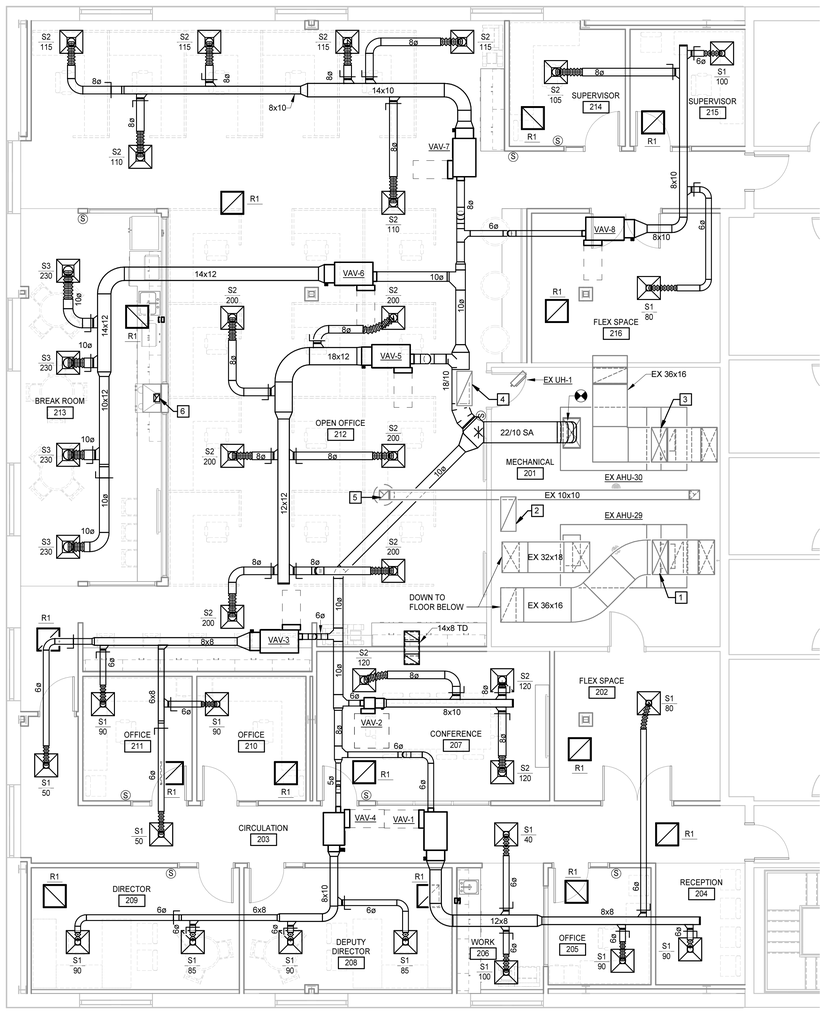
M1.1

2/7/2024 8:45:28 AM

KEYNOTES

APPLIES TO THIS DRAWING

1	EX 36x16 UP TO EX IH-29.
2	EX 16x36 UP TO EX RH-29.
3	EX 36x16 UP TO EX IH-30.
4	EX 16x36 UP TO EX RH-30.
5	EX 10x10 UP TO EX EF-29-01.
6	8x6 UP TO GOOSENECK ON ROOF.



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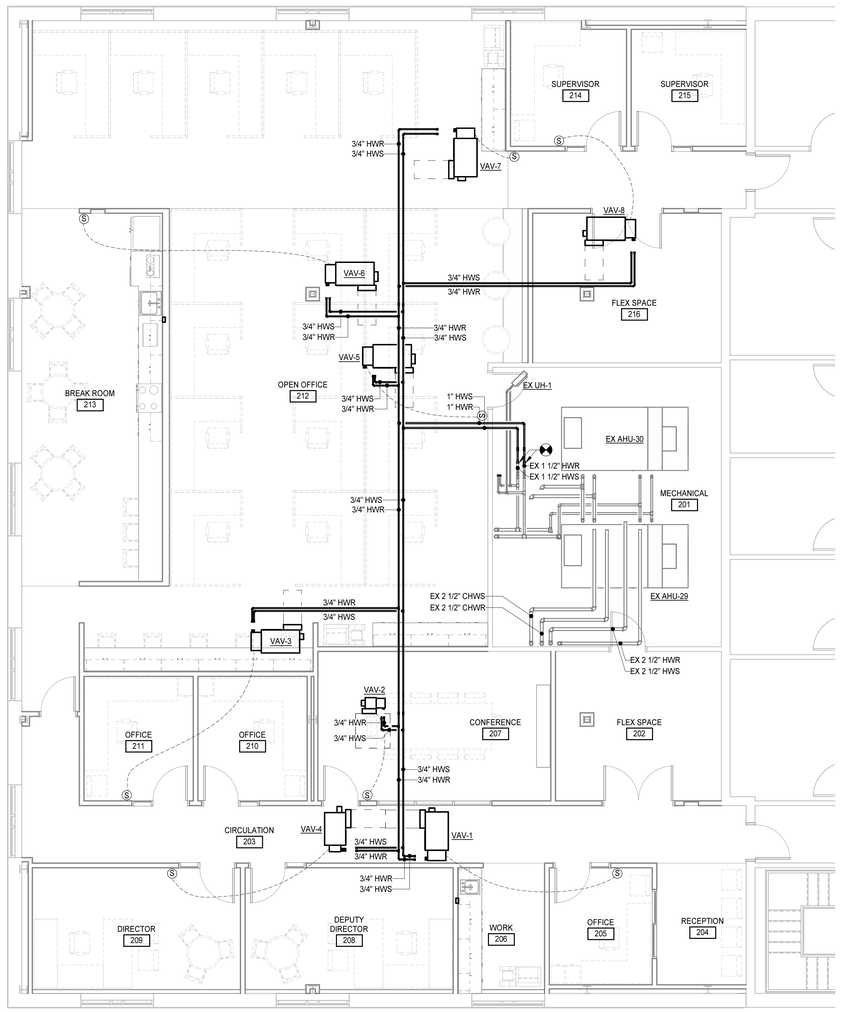
SECOND FLOOR PLAN - DUCTWORK

3/16" = 1'-0"



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SECOND FLOOR PLAN - PIPING

3/16" = 1'-0"

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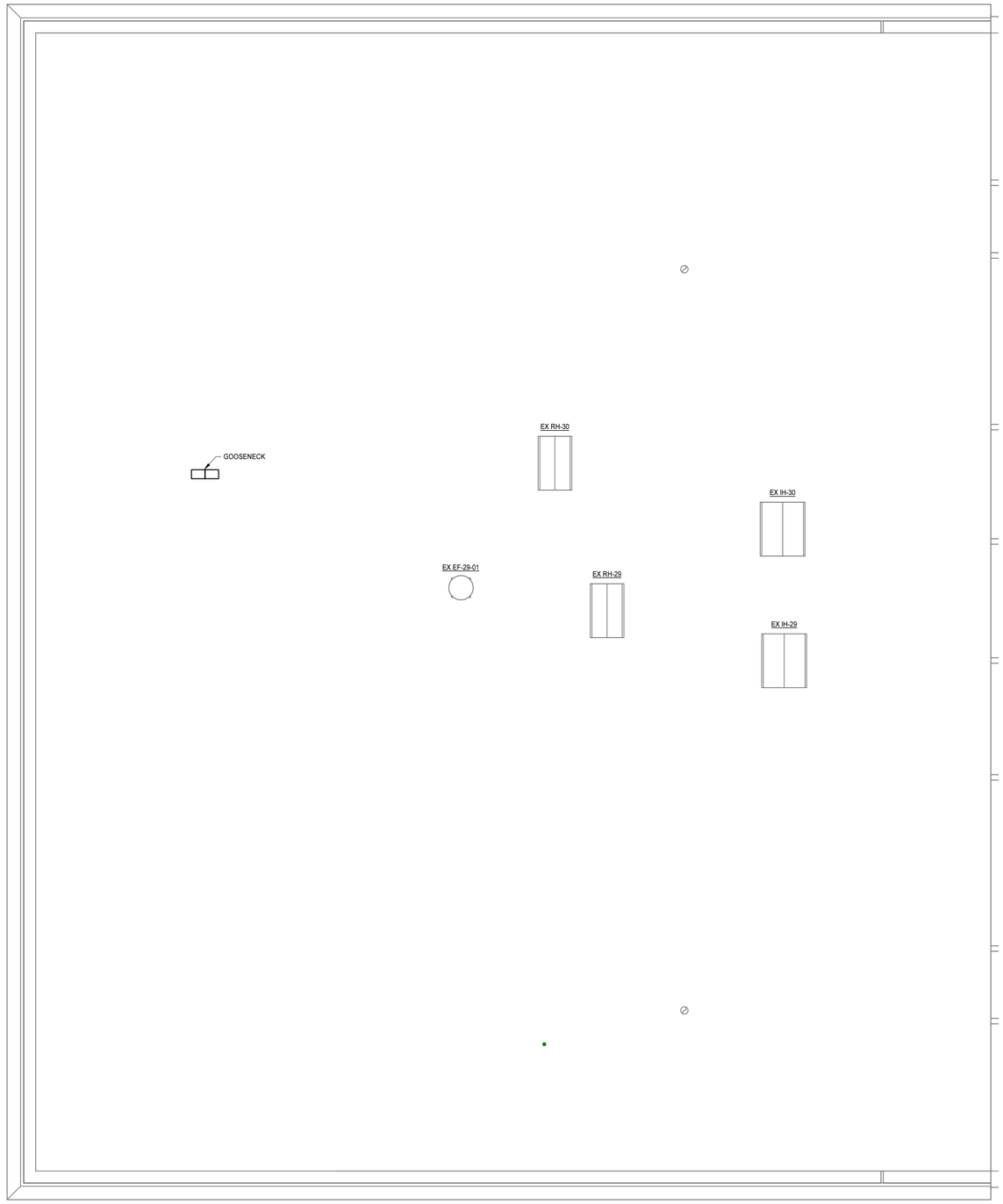
FLOOR PLAN

M2.1

2/7/2024 8:45:29 AM



N

ROOF PLAN

1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOSHUA FORSYTH

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

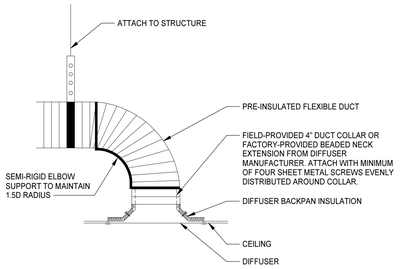
PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

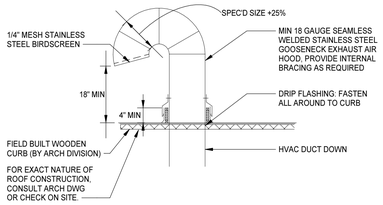
ROOF PLAN

M2.2

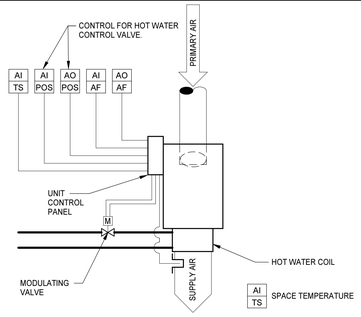
2/7/2024 8:45:29 AM



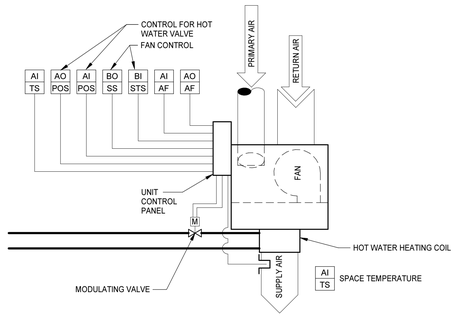
FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL



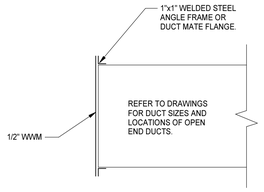
GOOSENECK DETAIL



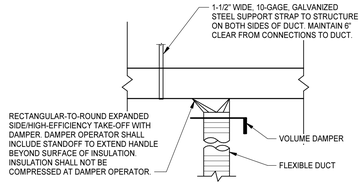
TERMINAL UNIT WITH MODULATING CONTROL OF HOT WATER HEAT

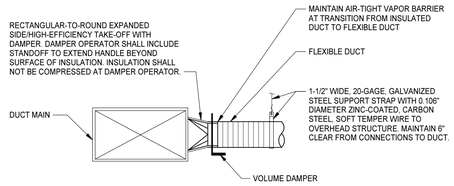


SERIES FAN POWERED TERMINAL UNIT WITH MODULATING HOT WATER HEATING COIL



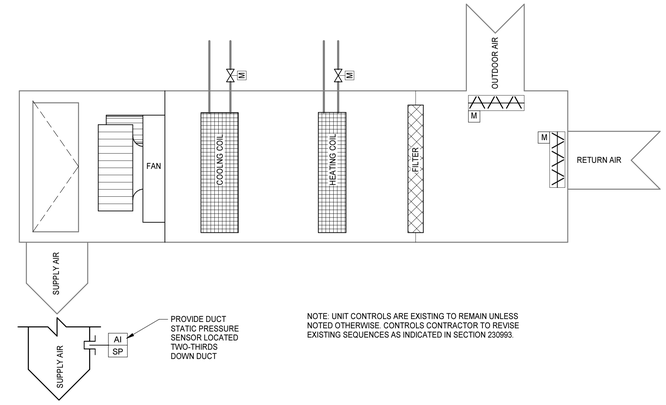
OPEN END DUCT DETAIL





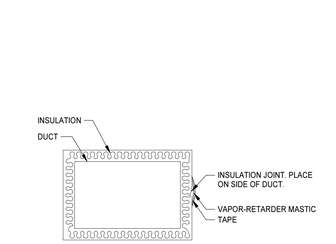
NOTES:
1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP.
2. IN EXPOSED AREAS, PROVIDE RIGID GALVANIZED STEEL BRANCH DUCT TO DIFFUSERS IN LIEU OF FLEXIBLE DUCT UNLESS INDICATED OTHERWISE. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR METAL DUCTS.

BRANCH CONNECTION TO DIFFUSER DETAILS



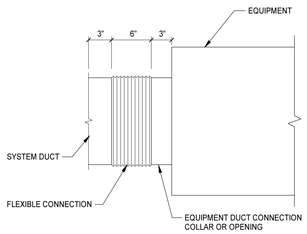
NOTE: UNIT CONTROLS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. CONTROLS CONTRACTOR TO REVISE EXISTING SEQUENCES AS INDICATED IN SECTION 230993.

EX AHU-30 CONTROLS



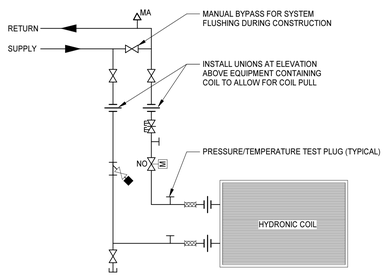
REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL

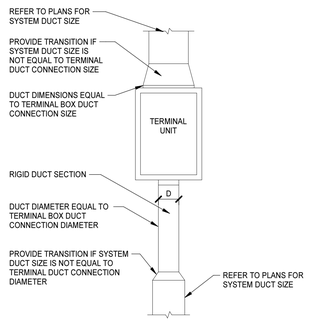


NOTE: THIS DETAIL APPLIES TO ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS UNLESS OTHERWISE INDICATED

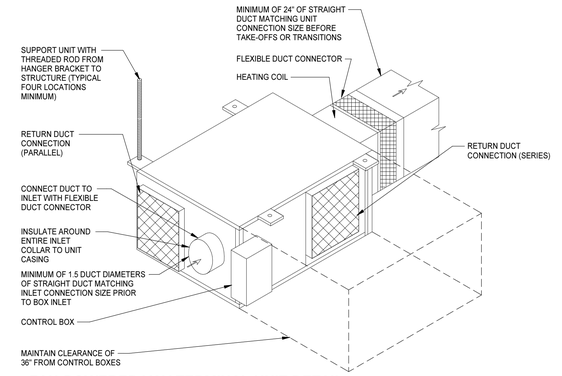
EQUIPMENT DUCT CONNECTION DETAIL



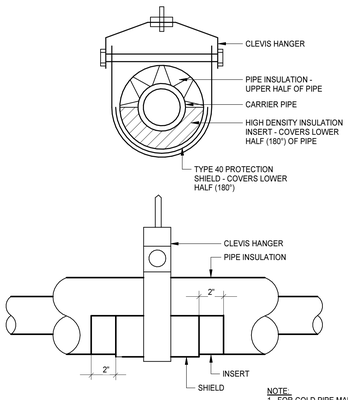
HYDRONIC COIL PIPING DIAGRAM - TERMINAL EQUIPMENT



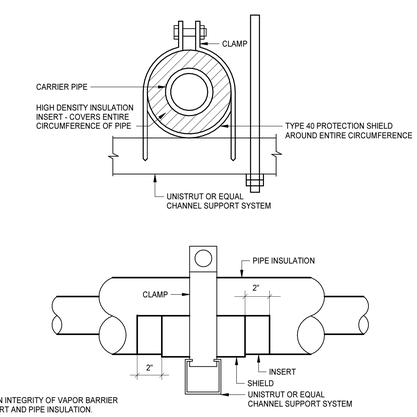
TERMINAL DUCT CONNECTION DETAIL



FAN-POWERED VAV TERMINAL UNIT DETAIL



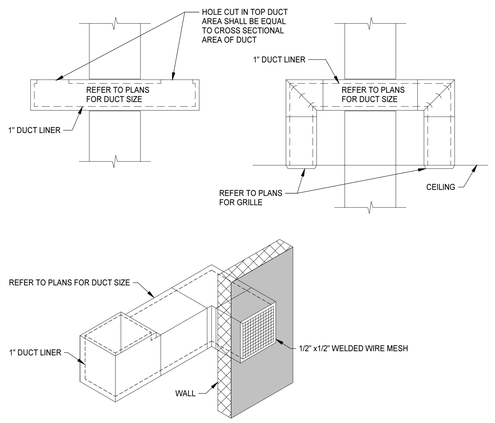
CLEVIS OR BAND HANGER



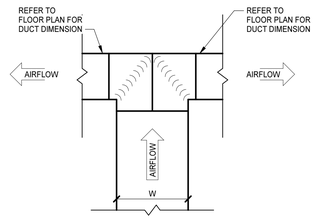
TRAPEZE OR CLAMPED SYSTEM

NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.

PIPE SUPPORT AND THERMAL SHIELD DETAILS



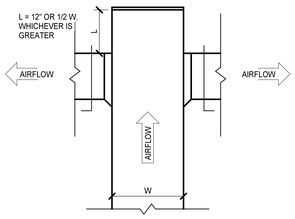
TRANSFER DUCT DETAIL



NOTES:

1. APPLIES WHERE "W" EXCEEDS 24" OR WHEN AIRFLOW EXCEEDS 1,500 CFM.

DIVIDED FLOW BRANCH DETAILS



NOTES:

1. REFER TO *BRANCH CONNECTION TO DIFFUSER DETAILS* FOR BRANCH TAKE-OFF REQUIREMENTS.
2. APPLIES TO:
   A. WHERE "W" IS LESS THAN 24"
   B. ROUND DUCT BRANCHES TO DIFFUSERS
   C. WHEN AIRFLOW IS EQUAL TO OR LESS THAN 1,500 CFM.

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HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

DETAILS AND CONTROLS

M5.1

2/7/2024 8:45:29 AM

GRAPHICS SYMBOLS LEGEND

SPACE IDENTIFICATION TAG (A123)
- SPACE NUMBER
- BUILDING AREA (WHEN USED)

SECTION WHERE CUT (1 / E4.1)
- SECTION NUMBER
- DRAWING WHERE SECTION IS INDICATED

ENLARGED PLAN WHERE CUT (1 / E3.1)
- ENLARGED PLAN NUMBER
- DRAWING WHERE ENLARGED PLAN IS INDICATED

DETAIL TAG (1 / E5.1)
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED

DETAIL TITLE (1 / E2.2 E5.1 / E2.3 E2.4) 1/4"=1'-0"
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

SECTION TITLE (1 / E2.2 E4.1 / E2.3 E2.4) 1/4"=1'-0"
- SECTION NUMBER
- DRAWING WHERE SECTION IS INDICATED
- DRAWING WHERE SECTION IS CUT
- ADDITIONAL DRAWING REFERENCES

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
	DEVICES ARE EXISTING TO REMAIN.
	WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY.

GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

POWER DEVICE / EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	OVERHEAD DOOR CONTROLLER.
	DOORBELL PUSH BUTTON.
	EMERGENCY POWER OFF (E.P.O) SWITCH.
	HANDICAP DOOR OPERATOR SWITCH.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL:
	NON-FUSIBLE DISCONNECT SWITCH.
	FUSIBLE DISCONNECT SWITCH.
	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT.
	MAGNETIC MOTOR STARTER, OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
B	DOORBELL CHIME, WALL MOUNTED.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
F	FLUSH VALVE TRANSFORMER POWER CONNECTION. PROVIDE A 4"X4" RECESSED JB AND MOUNT POWER SUPPLY PROVIDED BY DIV 22. COORDINATE CONNECTION WITH DIV 22. PROVIDE A 2"X4" JB AT EACH TOILET, SINK AND WATER CLOSET AS RECOMMENDED BY THE MANUFACTURER. PROVIDE 2 #14 IN 1/2"C "DAISY CHAINED" BETWEEN UP TO EIGHT BOXES AND TERMINATING AT POWER SUPPLY.
V	ISOLATION VALVE. REFER TO ISOLATION VALVE CONTROL DETAIL ON DRAWING E4 SERIES DRAWING.
EC	EQUIPMENT POWER CONNECTION.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
J	JUNCTION BOX, WALL MOUNTED. MOUNTING HEIGHT AS INDICATED ON PLANS.
	MOTOR POWER CONNECTION.
S_M	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
M	POWER FOR DIV 23 MOTORIZED DAMPER. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	NON-METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNTING HEIGHT INDICATED ON PLANS.
	PANELBOARD OR SWITCHBOARD, PROVIDE 6 INCH CONCRETE HOUSEKEEPING PAD FOR ALL GROUND MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE. DENOTED BY PANELBOARD/SWITCHBOARD TAG PER ONE-LINE DIAGRAM.
	TRANSFORMER, PROVIDE 4 INCH CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE. DENOTED BY TRANSFORMER TAG PER ONE-LINE DIAGRAM.
	UTILITY METER. MOUNT PER UTILITY STANDARDS, UNO.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.
XX	[FOR MULTI-FAMILY HOUSING PROJECTS ONLY] RESIDENTIAL UNIT METERCENTER IDENTIFICATION TAG. IDENTIFIES THE METERCENTER THAT PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER.
	[FOR SENIOR LIVING PROJECTS ONLY] RESIDENTIAL UNIT PANELBOARD DESIGNATION TAG. IDENTIFIES THE PANELBOARD & CIRCUIT THAT PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.

RECEPTACLE DEVICE LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
	APPLIANCE RECEPTACLE. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
	SWITCHED DUPLEX RECEPTACLE WITH SPLIT YOKE, THE BOTTOM OUTLET IS SWITCHED & THE TOP OUTLET IS UNSWITCHED, NEMA 5-15R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
	DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	CORD REEL OUTLET, CEILING MOUNT.

SYMBOL VARIATIONS	DESCRIPTION
	RECEPTACLE CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICE. TYPE OF RECEPTACLE MAY VARY.
	GFCI RECEPTACLE CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICE. TYPE OF RECEPTACLE MAY VARY.
	PROTECTIVE COVER FOR RECEPTACLE. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE FOR ALL EXTERIOR LOCATIONS. TYPE OF RECEPTACLE MAY VARY.
	PLUG LOAD CONTROLLED RECEPTACLE. TYPE OF RECEPTACLE MAY VARY.
	RECEPTACLE WITH USB PORTS. TYPE OF RECEPTACLE MAY VARY.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO NOTIFICATION DEVICE.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO NOTIFICATION DEVICE, CEILING MOUNTED.
F	FIRE ALARM MANUAL PULL STATION.
FK	FIRE ALARM KEY OPERATED MANUAL PULL STATION.
CO	CARBON MONOXIDE DETECTOR, CEILING MOUNT.
SC	COMBINATION SMOKE DETECTOR / CARBON MONOXIDE, CEILING MOUNT.
H	HEAT DETECTOR, CEILING MOUNT.
S	SMOKE DETECTOR, CEILING MOUNT.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PI	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
RI	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF. PROVIDE CONCEALED 120-VOLT POWER CONNECTION
M	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
M	FIRE ALARM MAGNETIC DOOR HOLDER, FLOOR MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

SYMBOL VARIATIONS	DESCRIPTION
XX	WIRE GUARD FOR FIRE ALARM NOTIFICATION DEVICE. TYPE OF NOTIFICATION DEVICE MAY VARY.
XX	DEVICE COVER FOR FIRE ALARM NOTIFICATION DEVICE. NUMBER INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE COVER IS PRESENT. TYPE OF NOTIFICATION DEVICE MAY VARY.
	WIRE GUARD FOR FIRE ALARM INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.
	SOUNDER BASE FOR FIRE ALARM INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.
	FIRE ALARM WALL MOUNTED INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.

POWER / COMMUNICATION DEVICE LEGEND

NOTE: REFER TO TELECOMMUNICATIONS DETAILS ON E5.1. PROVIDE QUANTITY OF CATEGORY 6 OR CATEGORY 6A CABLES PER OUTLET LOCATION INDICATED ON FLOOR PLANS.

SYMBOL	DESCRIPTION
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
#	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX WITH COVER SUITABLE FOR SYSTEM FURNITURE CONNECTION. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE POWER J-BOX MOUNTED TO STRUCTURE ABOVE CEILING, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MOUNTED TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
VP	POWER AND COMMUNICATIONS FOR CEILING MOUNTED VIDEO PROJECTOR. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R AND CEILING MOUNTED TELECOMMUNICATION OULTET. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
P T	RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. PROVIDE TELECOMMUNICATION OULTET BASED ON "T" IN RIGHT SYMBOL BOX. "T" INSIDE RIGHT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM COMMUNICATIONS LEGEND.
P TV	RECEPTACLE AND TELECOMMUNICATION OUTLET MOUNTED INSIDE WALL MOUNTED FLAT DISPLAY BOX. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

SYMBOL VARIATIONS	DESCRIPTION
	POWER/COMMUNICATIONS RECESSED FLOOR BOX OR POKE THRU CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICES.
P T	PROTECTIVE COVER FOR RECEPTACLE AND TELECOMMUNICATION OUTLET. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE FOR ALL EXTERIOR LOCATIONS. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.
P T	PLUG LOAD CONTROLLED RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.
P T	RECEPTACLE WITH USB PORTS MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.

ONE LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
XXX	FEEDER DESIGNATION
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER

LIGHTING LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS.
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS.
SS	LIGHT SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING, RATED 120/277 VOLTS, 20-AMPS.
	SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:

3	INDICATES 3-WAY LIGHT SWITCH
4	INDICATES 4-WAY LIGHT SWITCH
D	INDICATES DIMMER SWITCH
D3	INDICATES 3-WAY DIMMER LIGHT SWITCH
D4	INDICATES 4-WAY DIMMER LIGHT SWITCH
K	INDICATES KEY OPERATED LIGHT SWITCH
K3	INDICATES KEY OPERATED 3-WAY LIGHT SWITCH
K4	INDICATES KEY OPERATED 4-WAY LIGHT SWITCH
LV	INDICATES LOW VOLTAGE LIGHT SWITCH
OS	INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
OD	INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
P	INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
T	INDICATES TIMER LIGHT SWITCH
VS	INDICATES SWITCH WITH INTEGRAL VACANCY SENSOR
VD	INDICATES DIMMER SWITCH WITH INTEGRAL VACANCY SENSOR

LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION

SYMBOL	DESCRIPTION
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
	OMNI-DIRECTIONAL LIGHTING CONTROL VACANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL VACANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
PS	PHOTOCELL SENSOR FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.
DS	DAYLIGHT HARVESTING SENSOR FOR LIGHTING CONTROL, CEILING MOUNT.
GR	GENERATOR RELAY DEVICE.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	LIGHT FIXTURE ON EMERGENCY POWER, WALL MOUNT, HEIGHT AS INDICATED.
	EMERGENCY EGRESS LIGHTING FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	TRACK LIGHTS.
	LIGHT FIXTURE, POLE MOUNT.
	SPORTS LIGHTING POLE.
	CEILING FAN WITH LIGHTING FIXTURE.

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
X	TELECOMMUNICATIONS OUTLET, WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
M	MICROPHONE INPUT OUTLET, WHERE INDICATED, SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
A	AUDIO INPUT OUTLET.
V	VIDEO INPUT OUTLET.
TGB	TELECOMMUNICATIONS GROUND BUS BAR.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
X	TELECOMMUNICATIONS OUTLET, WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL:
	INTERCOM STATION WITH PUSHBUTTON.
	MASTER INTERCOM STATION.
	PUSHBUTTON SWITCH.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
	WALL CLOCK. ARROW(S) INDICATE FACE(S) DIRECTION.
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
	MISC COMMUNICATIONS OUTLET. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	CEILING MOUNT DEVICE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	CATV OUTLET, COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
	MISC CATV OUTLET, COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
	WALL CLOCK, CEILING MOUNT. ARROW(S) INDICATE FACE(S) DIRECTION.
S	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT.
W	WIRELESS ACCESS POINT.
	2 POST TELECOMMUNICATIONS EQUIPMENT RACK.
	4 POST TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

SYMBOL VARIATIONS	DESCRIPTION
S S	SOUND SYSTEM SPEAKER WITH WIRE GUARD.
S	WEATHERPROOF SOUND SYSTEM SPEAKER.

GENERAL NOTES

A. 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.

B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.

D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.

E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.

F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.

G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.

H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.

I. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.

J. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.

K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.

L. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.

M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

N. REFER TO STRUCTURAL DRAWINGS FOR ALL CONDUIT REQUIREMENTS BEING PLACED IN CMU WALLS.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO.	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 2/7/2024 BRIAN C. WELLS

MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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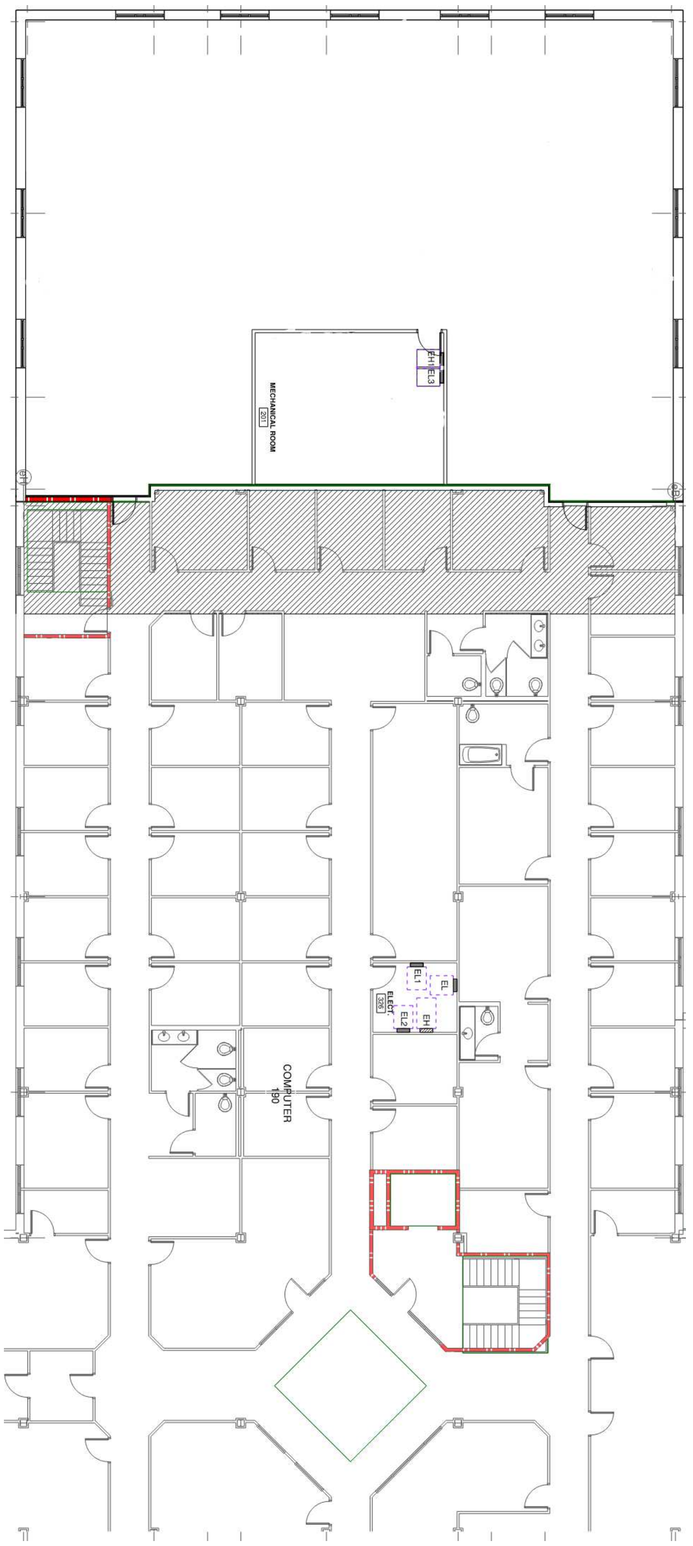
OVERALL FLOOR PLAN

1/8" = 1'-0"



ELECTRICAL OVERALL PLAN

E2.0

PROJECT NO	631797
DATE	FEBRUARY 7, 2024
REVISIONS	
DATE	DESCRIPTION

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

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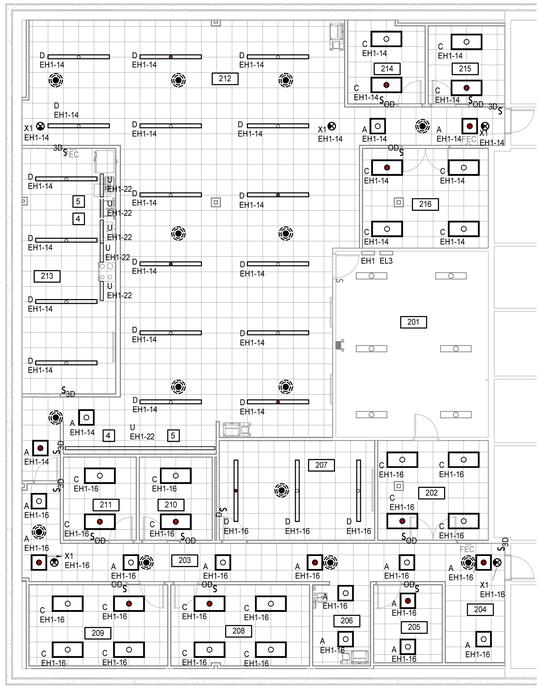
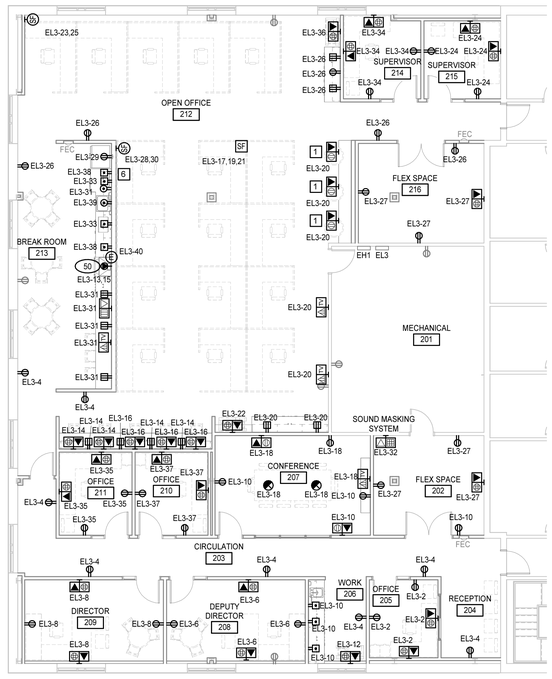
MOSELEYARCHITECTS.COM



SECOND FLOOR PLAN - LIGHTING
1/8" = 1'-0"



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

GENERAL NOTES

1. PROVIDE FIRE ALARM DEVICES AS SHOWN AND CONNECT TO EXISITNG SIMPLEX 4020 FIRE ALARM SYSTEM.
2. PROVIDE 2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO WHERE REQUIRED FOR THRU WALL PENETRATION AT +6" ABOVE FINISHED CEILING.

KEYNOTES
APPLIES TO THIS DRAWING

1. MOUNTED IN MILLWORK. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
2. DISCONNECT & REMOVE ALL LIGHT FIXTURES, SWITCHING & SWITCH LEGS IN THIS ROOM. MAINTAIN BRANCH CIRCUIT HOME-RUN FOR REUSE.
3. DISCONNECT & REMOVE EXISTING FIRE ALARM NOTIFICATION DEVICE.
4. COORDINATE MOUNTING HEIGHT AND LENGTH OF FIXTURE WITH ARCHITECUTRAL DRAWINGS FOR UNDER CABINET LIGHTING.
5. LOCATE LV TRANFORMER FOR UNDER CABINET LIGHTING ABOVE ACCESSIBLE CEILING & PROVIDE ALL WIRING & ACCESSSORIES AS REQUIRED FOR A COMPLETE INSTALLITION.
6. COORDINATE HEIGHT OF RECEPTACLE WITH MICROWAVE ON ARCHITECTURAL DRAWINGS.

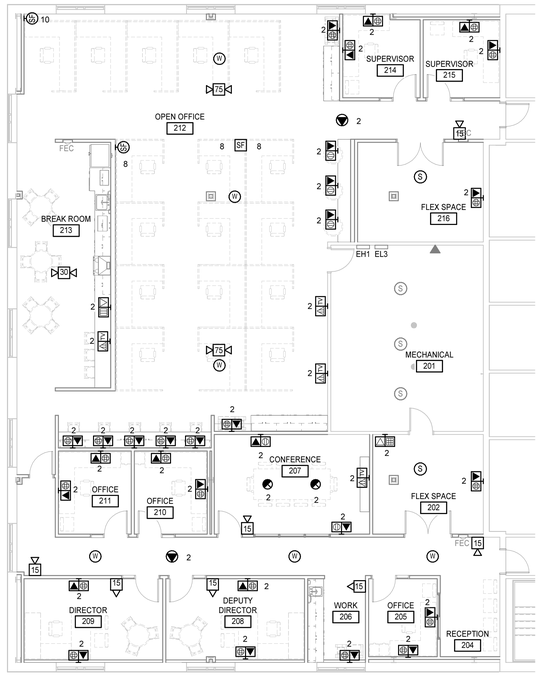
DIV 23 ELECTRICAL CONNECTION SCHEDULE

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
EWH-1	277 V	1	4.1 kVA	EH1	24	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
EWH-2	277 V	1	4.1 kVA	EH1	26	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-1	277 V	1	0.7 kVA	EH1	18	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-2	277 V	1	0.1 kVA	EH1	18	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-3	277 V	1	0.7 kVA	EH1	18	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-4	277 V	1	0.7 kVA	EH1	18	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-5	277 V	1	1.0 kVA	EH1	20	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-6	277 V	1	0.7 kVA	EH1	20	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-7	277 V	1	0.7 kVA	EH1	20	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
VAV-8	277 V	1	0.7 kVA	EH1	20	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	

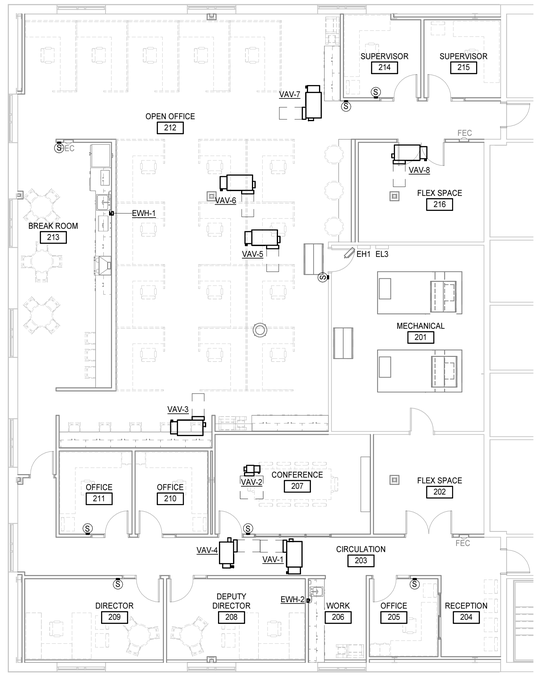
COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"

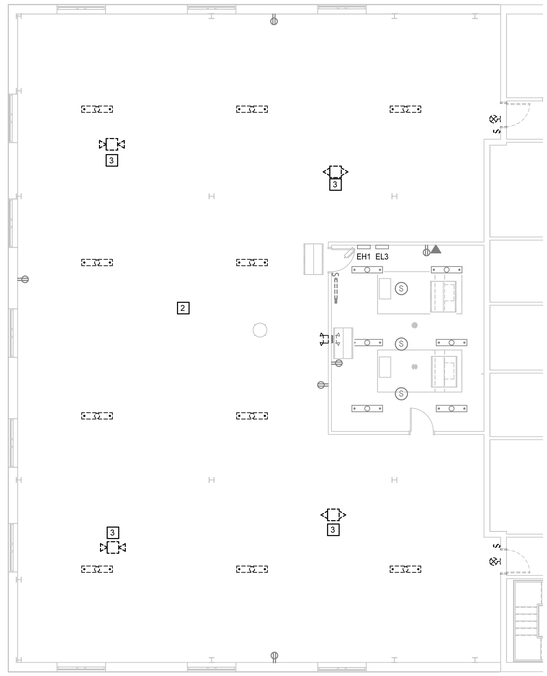
NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.



SECOND FLOOR PLAN - COMMUNCATIONS
1/8" = 1'-0"



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



SECOND FLOOR PLAN - DEMOLITION PLAN
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 11/7/2006 BRIAN C. WELTY

NORTH CAROLINA REGISTERED CORPORATION C-3469 MOSELEY ARCHITECTS, P.C. CHARLOTTE, N.C.

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS

DATE	DESCRIPTION

FLOOR PLANS

E2.1

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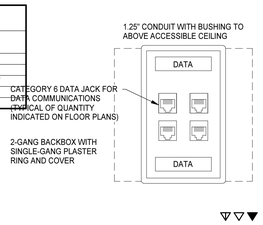
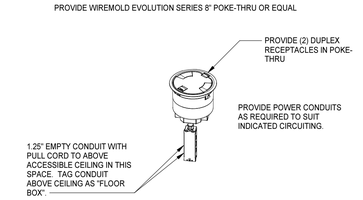
LIGHT FIXTURE SCHEDULE

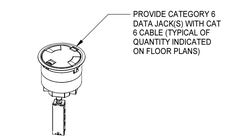
FIXTURE							LAMP		MOUNTING	OPTIONS	COMMENTS
TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE	COLOR TEMP.			
A	2X2 RECESSED TROFFERS	LITHONIA	2BLT2	277 V	0	2971 lm	LED	4000 K	RECESSED	EMERGENCY BATTERY PACK WHERE INDICATED	
C	2X4 RECESSED TROFFER	LITHONIA	2BLT	277 V	47	6000 lm	LED	4000 K	RECESSED	EMERGENCY BATTERY PACK WHERE INDICATED	
D	8FT LINEAR RECTANGULAR PENDANT	NEO-RAY	S122DIP	277 V	82	9640 lm	LED	4000 K	PEDNANT	EMERGENCY BATTERY PACK WHERE INDICATED	675 LUMENS DOWN, 530 LUMENS UP. MOUNT 8'6" AFF
U	UNDER CABINET LIGHT	ACOLYTE	AC5	277 V	3	339 lm	LED	4000 K	SURFACE		
X1	EXIT SIGN	LITHONIA	LRP	277 V	5		LED			EMERGENCY BATTERY PACK WHERE INDICATED	



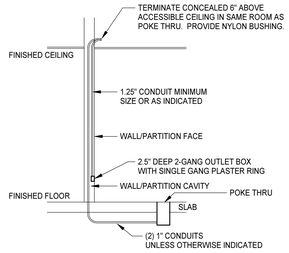
1 TELECOMMUNICATION OUTLET DETAIL
NO SCALE



2 POKE-THRU DETAIL - POWER
NO SCALE



3 POKE-THRU DETAIL - TELECOMMUNICATIONS
NO SCALE



4 / E5.1 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - POKE THRU
1/4" = 1'-0"

EXISTING PANELBOARD EL3

LOCATION: MECHANICAL 201 — FED FROM:
100 AMP MCB — 120/208 Wye — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	UH-1	0.2	1.1					REC OFFICE 205 (EB)	1	20 A	2
3	20 A	1	HVAC CONTROL PANEL			0.5	1.4			REC 203,204,202, 213/212 (EB)	1	20 A	4
5	20 A	1	HVAC CONTROL PANEL					0.5	1.1	REC 208 (EB)	1	20 A	6
7	20 A	1	EF 29-01 (1/10 HP)	0.1	1.1					REC 209 (EB)	1	20 A	8
9	20 A	1	ROOFTOP REC			0.2	1.3			REC 206,207 (EB)	1	20 A	10
11	--	1	SPACE ONLY					--	0.4	REC PRINTER 206 (EB)	1	20 A	12
13	50 A	2	REC RANGE 213 (RB)	0.1	1.3					REC WORKSTATION 212 (EB)	1	20 A	14
15						0.1	1.3			REC WORKSTATION 212 (EB)	1	20 A	16
17								0.2	1.3	REC 207 (EB)	1	20 A	18
19	20 A	3	SYSTEM FURNITURE 212 (RB)	0.2	1.3					REC 212 (EB)	1	20 A	20
21						0.2	0.4			REC PRINTER 212 (EB)	1	20 A	22
23	20 A	2	SYSTEM FURNITURE 212 (RB)					0.3	1.1	REC 215 (EB)	1	20 A	24
25				0.3	1.3					REC 212,213 (EB)	1	20 A	26
27	20 A	1	REC 202,216			1.4	0.3						28
29	20 A	1	REC REFRIDGERATOR 213 (GP)					0.2	0.3	SYSTEM FURNITURE 212 (RB)	2	20 A	30
31	20 A	1	REC 213 (EB)	1.1	0.4					SOUND MASKING SYSTEM 202..	1	20 A	32
33	20 A	1	REC 213 (EB)			0.4	1.1			REC 214 (EB)	1	20 A	34
35	20 A	1	REC 211 (PB)					1.1	0.4	REC PRINTER 212 (PB)	1	20 A	36
37	20 A	1	REC 210 (PB)	1.1	0.4					RECEPTACLES SPACE 20	1	20 A	38
39	20 A	1	GARBAGE DISPOSAL			0.2	0.5			EXHAUST HOOD (PB)	1	20 A	40
41	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	42
				10 kVA		9 kVA		7 kVA					
				84 A		79 A		55 A					

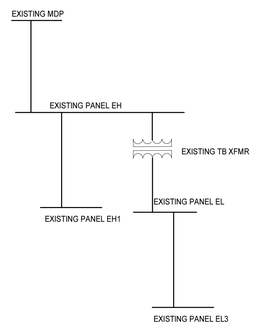
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (PB) = PROVIDE BREAKER IN EXISTING SPACE
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF. LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	23220 VA	71.53%	16610 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	680 VA	100.00%	680 VA

Panel Totals
Total Conn. Load: 25.4 kVA
Total Est. Demand: 18.8 kVA
Total Conn. Current: 70 A
Total Est. Demand... 52 A

LOAD CALCULATION

EXISTING PANEL MDP LOAD + 125%	343.8 KVA
ADDED LOAD	60.2 KVA
NET NEW LOAD	404 KVA
	486A



EXISTING ONE LINE DIAGRAM

EXISTING PANELBOARD EH1

LOCATION: MECHANICAL 201 — FED FROM:
100 AMP MCB — 480/277 Wye — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 18 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				2.1	0.6								2
3	20 A	3	AHU-30			2.1	0.6			PUMP P-1	3	15 A	4
5								2.1	0.6				6
7				2.1	1.7					LTS 100-106,108,110-116	1	20 A	8
9	20 A	3	AHU-29			2.1	0.0			LTS OPEN WORKSTATION 109	1	20 A	10
11								2.1	0.0	LTS MECH RM 201, SHELL SPACE	1	20 A	12
13	20 A	1	TU-29-05,06,07,08	3.7	1.9					INTERIOR LIGHTING (EB)	1	20 A	14
15	20 A	1	TU-29-01-02-03-04			3.7	1.0			INTERIOR LIGHTING (EB)	1	20 A	16
17	20 A	1	SPARE					0.0	2.1	VAV-1,2,3,4 (RB)	1	15 A	18
19	20 A	1	SPARE	0.0	3.0					VAV-5,6,7,8 (RB)	1	15 A	20
21	20 A	1	SPARE			0.0	0.0			UNDER CABINET LTS (EB)	1	20 A	22
23	20 A	1	SPARE					0.0	4.1	EWH-1 (EB)	1	20 A	24
25	20 A	1	SPARE	0.0	4.1					EWH-2 (EB)	1	20 A	26
27	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	28
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	30
31	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	32
33	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	34
35	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	36
37	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	38
39	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	40
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42
				19 kVA		9 kVA		11 kVA					
				70 A		34 A		40 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED
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(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF. LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	8241 VA	125.00%	10302 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	18042 VA	100.00%	18042 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	8200 VA	100.00%	8200 VA

Panel Totals
Total Conn. Load: 39.5 kVA
Total Est. Demand: 41.6 kVA
Total Conn. Current: 48 A
Total Est. Demand... 50 A

MOSELEY ARCHITECTS
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MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 1/1/2024 BRIAN C. WELLS

MOSELEY ARCHITECTS P.C. ENGINEERING CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, NC

HARNETT CO DSS UPFIT 2ND FLOOR

631797
HARNETT CO DSS
311 W CORNELIUS HARNETT BLVD, LILLINGTON, NC 27546

PROJECT NO: 631797
DATE: FEBRUARY 7, 2024

REVISIONS	
DATE	DESCRIPTION

DIAGRAM, SCHEDULES & DETAILS

E5.1

2/8/2024 2:40:29 PM