CITY OF WILMINGTON SKYLINE CENTER UPFIT

LS3P: 7701-230545
929 N Front Street
Wilmington, North Carolina 28401



LS3P

CURRENT ISSUE: 2024.10.29 100% PERMIT SET

CITY OF WILMINGTON NORTH CAROLINA

LS3P

CBHF Engineers, PLLC

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES) (UPDATED PER OSFM 06/15/2020 REVISION)

NOTE: ALL WORK UNDER THIS SCOPE TO BE INTERIOR UPFIT ONLY. INFORMATION PROVIDED FOR FIRE PROTECTION IS FOR REFERENCE ONLY AND TO CONFIRM EXISTING TYPE 1-A CONSTRUCTION TYPE.

Name of Project: CITY OF WILMINGTON UPFIT AT SKYLINE
Address: 929 N. FRONT STREET, WILMIGTON, NC Zip Code: 28401
Owner / Agent: CHAD McEWEN Phone #: 9107657821 Email: chad.mcewen@wilmingtonnc.gov
Owned By: ■ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City: _____ ■ County: New Hanover ☐ State

CONTACT: BOB PRESSLEY, LS3P, 910-523-6205, bobpressley@ls3p.com

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural DL	LS3P	Danny Adams	9657	910.790.9901	dannyadams@ls3p.com
Civil	N/A	N/A	N/A	N/A	N/A
Electrical	CBHF	W. Allen Cribb	023311	910.791.4000	acribb@cbhfengineers.com
Fire Alarm	TBD	TBD	TBD	TBD	TBD
Plumbing	CBHF	David M. Hahn	023551	910.791.4000	dhahn@cbhfengineers.com
Mechanical	CBHF	David M. Hahn	023551	910.791.4000	dhahn@cbhfengineers.com
Sprinkler-Standpipe	TBD	TBD	TBD	TBD	TBD
Structural	N/A	N/A	N/A	N/A	N/A
Retaining Walls>5' High	N/A	N/A	N/A	N/A	N/A
Landscape	N/A	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A	N/A

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ■ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: ☐ N/A ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ■ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 2007 **CURRENT OCCUPANCY(S)** (Ch. 3): B, A-3
RENOVATED: (date) UPFIT, 2022 **PROPOSED OCCUPANCY(S)** (Ch. 3): B, A-3

RISK CATEGORY (Table 1604.5): **Current:** ■ N/A ☐ I ☐ II ☐ III ☐ IV
Proposed: ■ N/A ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ■ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ■ Yes **Class** ☐ I ☐ II ☐ III ■ Wet ☐ Dry
Fire District: ■ No ☐ Yes **Flood Hazard Area:** ☐ No ■ Yes
Special Inspections Required: ■ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE / WORK AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	(WORK AREA) RENO/ALTER(SQ FT)	SUB-TOTAL
1st FlOOR	61,173	0	24,733	N/A
2nd FLOOR	39,914	0	704	
3rd FLOOR	31,382	0	12,908	
4th FLOOR	28,646	0	0	
5th FLOOR	28,646	0	0	
6th FLOOR	28,646	0	0	OOO
7th FLOOR	28,646	0	0	OOO
8th FLOOR	28,646	0	0	OOO
9th FLOOR	28,646	0	0	OOO
10th FLOOR	28,646	0	823	OOO
11th FLOOR	19,012	0	735	OOO
12th FLOOR	19,012	0	1040	OOO
MECHANICAL	19,012	0	0	OOO
	551,142		40,943	< 50% OF BUILDING AREA = LEVEL II ALTERATION

ALLOWABLE AREA

Primary Occupancy Classification(s) (Chapter 3):

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ■ B
Educational ☐ E
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s) (Chapter 5 - 508.2): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: ☐ No ☐ Yes Separation: O Hr. Exception: NON-SEPARATED USE (508.3)

■ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

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

$$\frac{\text{N/A}}{\text{N/A}} + \frac{\text{N/A}}{\text{N/A}} = \text{N/A} + \text{N/A} = \text{N/A} \leq 1.00$$

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]
NO FRONTAGE INCREASE NECESSARY			UL	N/A	UL

[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. N/A (F).
b. Total Building Perimeter = N/A (P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = N/A (W)
e. Percent of frontage increase I_f = 100[F/P - 0.25 x W / 30 = N/A (%)
[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
Building Height in Feet (Table 504.3) [2]	UL	207'	504.3 or 504.4
Building Height in Stories (Table 504.4) [3]	UL	14	504.3 or 504.4

[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/ ____* Reduct.)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENE-TRATION	DESIGN # FOR RATED JOINTS
Structural Frame, Including Columns, Girders, Trusses (Table 601)	--	3 HR	3 HR	EXSTG	EXSTG	EXSTG	EXSTG
Bearing Walls (Table 601)							
Exterior	>30'	N/A	N/A	--	--	--	--
North	>30'	N/A	N/A	--	--	--	--
East	>30'	N/A	N/A	--	--	--	--
West	>30'	N/A	N/A	--	--	--	--
South	>30'	N/A	N/A	--	--	--	--
Interior	--	N/A	N/A	--	--	--	--
Nonbearing Walls and Partitions (Table 602)							
Exterior Walls	>30'	0 HR	0 HR	--	--	--	--
North	>30'	0 HR	0 HR	--	--	--	--
East	>30'	0 HR	0 HR	--	--	--	--
West	>30'	0 HR	0 HR	--	--	--	--
South	>30'	0 HR	0 HR	--	--	--	--
Interior Walls and Partitions (Table 601)		0 HR	0 HR	--	--	--	--
Floor Construction, Including Supporting Beams and Joists (Table 601)		2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG
Floor Ceiling Assembly		N/A	N/A	N/A	N/A	N/A	N/A
Columns Supporting Floors		3-HR	3-HR	EXSTG	EXSTG	EXSTG	EXSTG
Roof Construction, Including Supporting Beams and Joists (Table 601)		1-1/2 HR	1-1/2 HR	EXSTG	EXSTG	EXSTG	EXSTG
Roof Ceiling Assembly		N/A	N/A	N/A	N/A	N/A	N/A
Columns Supporting Roof		3-HR	3-HR	EXSTG	EXSTG	EXSTG	EXSTG
Shaft Enclosures - Exit (Sec 1023)		2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG
Shaft Enclosures - Other (Sec 713)		2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG
Corridor Separation (Sec 1020.1)		0 HR	0 HR	--	--	--	--
Occupancy / Fire Barrier Separation (Sec 707)		N/A	N/A	--	--	--	--
Party / Fire Wall Separation (Sec 706)		N/A	N/A	--	--	--	--
Smoke Barrier Separation (Sec 709)		N/A	N/A	--	--	--	--
Smoke Partition (Sec 710)		N/A	N/A	--	--	--	--
Tenant / Dwelling / Unit / Sleeping Unit Separation (Sec 420)		0 HR	0 HR	--	--	--	--
Incidental Use Separation (Sec 509)		N/A	N/A	--	--	--	--

* Indicates 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 AREA SHOWN ON PLANS (%)
NO CHANGES OR ALTERATIONS TO STRUCTURE OF EXISTING BUILDING ARE BEING PROPOSED UNDER THIS SCOPE OF WORK.			

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	☐ No	■ Yes
Exit Signs:	☐ No	■ Yes
Fire Alarm:	☐ No	■ Yes
Smoke Detection Systems:	☐ No	■ Yes ☐ Partial _____
Carbon Monoxide Detection:	☐ No	■ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-1001

☐ 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 Sign locations (1013)
■ 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)

Unit Classification	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED 96" SPACES	# OF ACCESSIBLE SPACES PROVIDED 132" SPACES	TOTAL # ACCESSIBLE PROVIDED
THIS PROJECT DOES NOT INCREASE THE OCCUPANT LOAD OF ANY OCCUPANCY, THEREFORE THERE IS NO CHANGE TO THE PARKING COUNTS.					
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNI SEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNI SEX	SHOWERS /TUBS	DRINKING FNTNS. REGULAR	DRINKING FNTNS. ACCESSIBLE
SPACE	EXIST'G	ALL WATERCLOSETS, URINALS, AND LAVATORIES ARE EXISTING. THIS PROJECT DOES NOT INCREASE THE OCCUPANT LOAD OF ANY OCCUPANCY. THEREFORE, THERE IS NO CHANGE TO THE FIXTURE COUNTS.									
	NEW										
	REQ'D										

SPECIAL APPROVALS
Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., Describe Below
NEW HANOVER BUILDING SAFETY

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. THIS PROJECT SCOPE IS LIMITED TO INTERIOR WORK ONLY. NO ALTERATIONS TO THE EXTERIOR ENVELOARE BEING PROPOSED.
Existing building envelope complies with code: ☐ No ☐ Yes (Provide code or statutory reference) _____
Exempt Building: ☐ N/A ☐ 3A ☐ 4A ☐ 5A
Climate Zone:
Method of Compliance: ☐ Energy Code ☐ Performance ☐ Prescriptive
☐ ASHRAE 90.1 ☐ Performance ☐ Prescriptive
☐ (If "Other" specify source here) _____

THERMAL ENVELOPE: (Prescriptive Method Only)

Roof/Ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
U-Value of skylight: _____
Total square footage of skylights in each assembly: _____
Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: THIS PROJECT SCOPE IS LIMITED TO INTERIOR WORK
R-Value of insulation: ONLY. NO ALTERATIONS TO THE THERMAL
Openings (windows or doors with glazing) ENVELOPE ARE BEING PROPOSED.
U-Value of assembly: THEREFORE, NO THERMAL ENVELOPE INFORMATION.
Solar heat gain coefficient: IS PROVIDED AS EXISTING IS TO REMAIN.
Projection Factor: _____
Door R-Values: _____
Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floor slabs on grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/Vertical requirement: _____
Slab Heated: _____

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEET IF APPLICABLE):

DESIGN LOADS:
Importance Factors: Wind(Iw) ☐ 1.0
Snow(Is) ☐ 0.8 ☐ 1.0 ☐ 1.1 ☐ 1.2
Seismic(Ie) ☐ 1.0 ☐ 1.25 ☐ 1.5
Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf
Ground Snow Load: _____ psf
Wind Load: Ultimate Wind Speed: _____ mph (ASCE-7) BASIC WIND SPEED
Exposure Category: ☐ N/A ☐ B ☐ C ☐ D
NO CHANGES OR ALTERATIONS TO STRUCTURE OF EXISTING BUILDING ARE BEING PROPOSED UNDER THIS SCOPE OF WORK.

SEISMIC DESIGN CATEGORY ☐ N/A ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ N/A ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration: S_s _____ %g S_1 _____ %g
Site Classification (ASCE 7) ☐ N/A ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ N/A ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic Structural System (check one) ☐ N/A
☐ Bearing Wall ☐ Dual w/ Special Moment Frame
☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ N/A ☐ Yes ☐ No

LATERAL DESIGN CONTROL: ☐ N/A ☐ Earthquake ☐ Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____ psf

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEET IF APPLICABLE):

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone:
winter dry bulb: _____
summer dry bulb: _____
Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____
Building heating load: _____
Building cooling load: _____
EXISTING MECHANIC SYSTEM AND EQUIPMENT TO REMAIN. SCOPE OF WORK LIMITED TO RELOCATION OF SUPPLY DIFFUSERS AND RETURNS AS REQUIRED
Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason: _____
Chiller
Size category. If oversized, state reason: _____
List equipment efficiencies: _____

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEET IF APPLICABLE):

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance
Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballast in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed
Additional Required Prescriptive Compliance
(When using the 2018 NCESS, note 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

NOTE: UPFIT IS AN ALTERATION LEVEL II, AND PER 806.2 OF THE EXISTING NC BUILDING CODE, AN ACCESSIBLE ROUTE IS PROVIDED TO ALL AREAS CONSIDERED PRIMARY FUNCTIONS, WHICH INCLUDES THE ADDITION OF A FAMILY RESTROOM ON LEVEL 1. SEE SHEET A-101

STRUCTURAL DESIGN: REFERENCE STRUCTURAL SHEET #: EXSTG CONSTRUCTION

MECHANICAL DESIGN: REFERENCE MECHANICAL SHEET #: EXSTG CONSTRUCTION

ELECTRICAL DESIGN: REFERENCE ELECTRICAL SHEET #: EXSTG CONSTRUCTION

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ED108	ELECTRICAL LEVEL 2 FLOOR PLAN AREA "B" DEMOLITION	2024.10.29
ED109	ELECTRICAL LEVEL 3 FLOOR PLAN DEMOLITION	2024.10.29
EP101	ELECTRICAL LEVELS 1,2,3,10,11, AND 12	2024.10.29
EP401	ELECTRICAL ENL. PLAN LEVEL 1	2024.10.29
EP402	ELECTRICAL ENL. PLAN LEVEL 1	2024.10.29
EP403	ELECTRICAL ENL. PLAN LEVEL 1	2024.10.29
EP404	ELECTRICAL ENL. PLANS LEVEL 2	2024.10.29
EP405	ELECTRICAL ENL. PLAN LEVEL 3	2024.10.29
EP406	ELECTRICAL ENL. PLANS LEVEL 3	2024.10.29
EP407	ELECTRICAL ENL. PLANS LEVEL 3	2024.10.29
EP408	ELECTRICAL ENL. PLANS LEVELS 10,11, AND 12	2024.10.29
EL101	ELECTRICAL LEVELS 1,2, AND 3	2024.10.29
EL401	ELECTRICAL ENL. PLANS LEVEL 1	2024.10.29
EL402	ELECTRICAL ENL. PLAN LEVEL 1	2024.10.29
EL403	ELECTRICAL ENL. PLANS LEVEL 2	2024.10.29
EL404	ELECTRICAL ENL. PLAN LEVEL 3	2024.10.29
E1405	ELECTRICAL ENL. PLANS LEVEL 3	2024.10.29
EL406	ELECTRICAL ENL. PLANS LEVEL 3	2024.10.29
E-501	DETAILS	2024.10.29
E-601	SCHEDULES	2024.10.29
E-602	RISER DIAGRAM AND SCHEDULES	2024.10.29

PLUMBING

		ORIG ISSUE
P-001	SPECIFICATIONS, LEGEND, ABBREVIATIONS, SCHEDULES	2024.10.29
P-002	DETAILS	2024.10.29
PD101	PLUMBING LEVEL 1 FLOOR PLAN AREA "A"	2024.10.29
P-1-1	PLUMBING LEVEL 1 FLOOR PLAN AREA "A"	2024.10.29

FIRE ALARM

		ORIG ISSUE
F-001	FIRE ALARM LEGEND NOTES, DETAILS, AND RISER	2024.10.29
FD101	FIRE ALARM LEVEL 1 FLOOR PLAN AREA "A" DEMOLITION	2024.10.29
FD102	FIRE ALARM LEVEL 1 FLOOR PLAN AREA "B" DEMOLITION	2024.10.29
FD103	FIRE ALARM LEVEL 2 FLOOR PLAN AREA "B" DEMOLITION	2024.10.29
FD104	FIRE ALARM LEVEL 3 FLOOR PLAN DEMOLITION	2024.10.29
FD105	FIRE ALARM LEVEL 10 FLOOR PLAN DEMOLTION	2024.10.29
F101	FIRE ALARM LEVELS 1,2,3,10,11, AND 12	2024.10.29
F401	FIRE ALARM ENL. PLAN LEVEL 1	2024.10.29
F402	FIRE ALARM ENL. PLAN LEVEL 1	2024.10.29
F403	FIRE ALARM ENL. PLANS LEVEL 2	2024.10.29
F404	FIRE ALARM ENL. PLAN LEVEL 3	2024.10.29
F405	FIRE ALARM ENL. PLAN LEVEL 3	2024.10.29
F406	FIRE ALARM ENL. PLAN LEVEL 3	2024.10.29
F407	FIRE ALARM ENL. PLANS LEVELS 10,11, AND 12	2024.10.29

FIRE PROTECTION

		ORIG ISSUE
FP101	FIRE PROTECTION LEVEL 1 FLOOR PLAN AREA "A"	2024.10.29
FP102	FIRE PROTECTION LEVEL 1 FLOOR PLAN AREA "B"	2024.10.29
FP103	FIRE PROTECTION LEVEL 2 FLOOR PLAN AREA "A"	2024.10.29
FP104	FIRE PROTECTION LEVEL 2 FLOOR PLAN AREA "B"	2024.10.29
FP105	FIRE PROTECTION LEVEL 3 FLOOR PLAN	2024.10.29
FP106	FIRE PROTECTION LEVEL 10 FLOOR PLAN	2024.10.29
FP107	FIRE PROTECTION LEVEL 11 FLOOR PLAN	2024.10.29
FP108	FIRE PROTECTION LEVEL 12 FLOOR PLAN	2024.10.29

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CHARLES H. BONEY, JR. REGISTERED ARCHITECT 3276 NORTH CAROLINA WILMINGTON, N. CAROLINA

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
APPENDIX B AND SHEET INDEX

ORIG SUBMISSION: 2024.10.29

SHEET:
G-001

100% PERMIT SET

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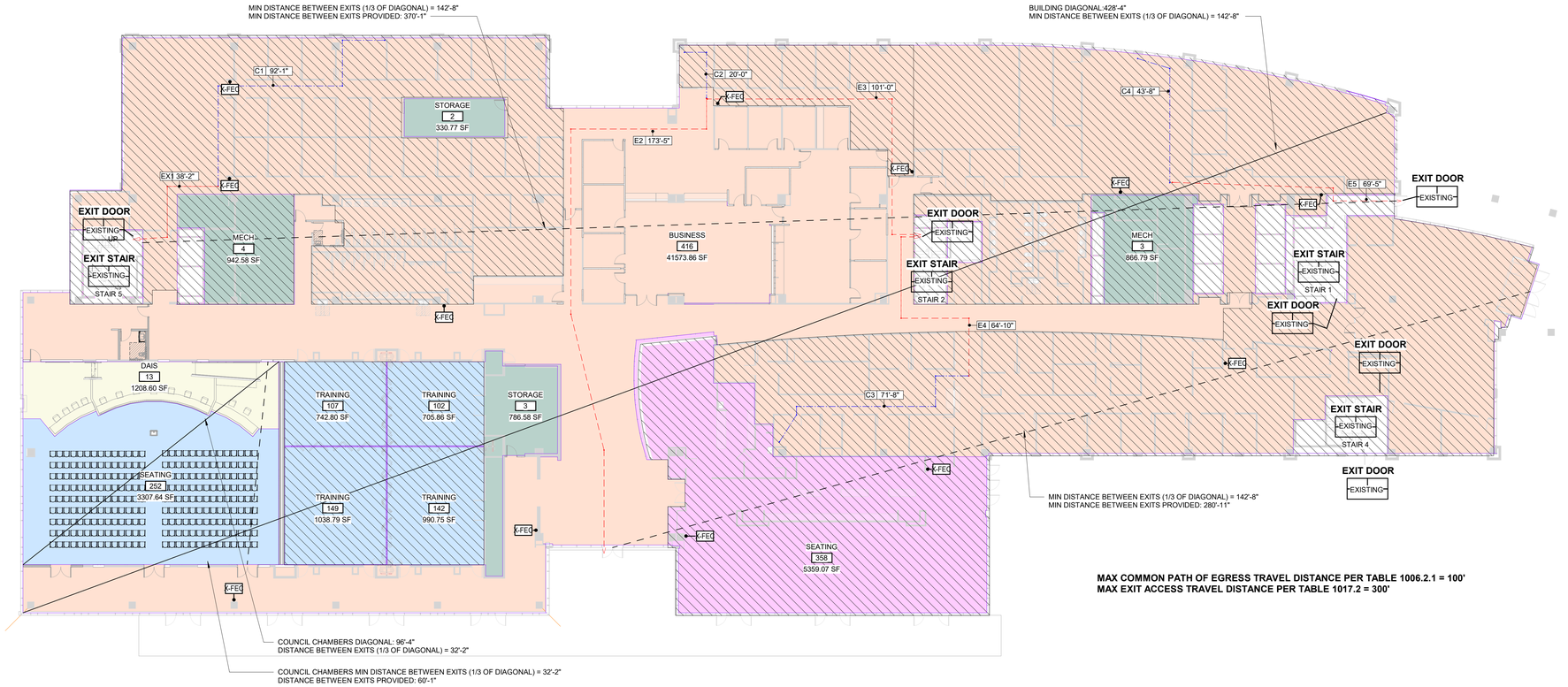


MAX COMMON PATH OF EGRESS TRAVEL DISTANCE PER TABLE 1006.2.1 = 100'
MAX EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2 = 300'

C1 LIFE SAFETY PLAN- LEVEL 1

1/16" = 1'-0"



B1 LIFE SAFETY PLAN - LEVEL P2 - STAIR 5

1/16" = 1'-0"



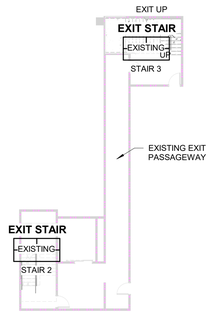
B2 LIFE SAFETY PLAN - LEVEL P2 - STAIR 3

1/16" = 1'-0"



A1 LIFE SAFETY PLAN - LEVEL P1- STAIR 5

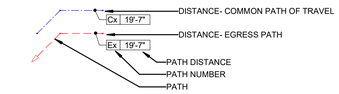
1/16" = 1'-0"



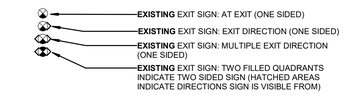
A2 LIFE SAFETY PLAN- LEVEL P1 - STAIR 3

1/16" = 1'-0"

CODE COMPLIANCE LEGEND









*** ALL EGRESS COMPONENTS ARE EXISTING U.N.O.; RENOVATION SCOPE MAINTAINS ALL ORIGINAL OCCUPANCY TYPE(S).**

OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- FIXED SEATS
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)
- (IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED
- (IBC2015) BUSINESS AREAS

LIFE SAFETY- OCCUPANCY- LEVEL 1

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS CALCULATED	COMMENTS
STORAGE	330.77 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	2	
STORAGE	786.58 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	3	
MECH	866.79 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	3	
MECH	942.58 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	4	
DAIS	1208.60 SF	(IBC2015) ASSEMBLY- FIXED SEATS	0.00 SF	13	CALCULATED PER CHAIR
TRAINING	705.86 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	101	
TRAINING	742.80 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	107	
TRAINING	990.75 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	142	
TRAINING	1038.79 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	149	
SEATING	3307.64 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	252	CALCULATED PER CHAIR
SEATING	5359.07 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	358	
BUSINESS	41573.86 SF	(IBC2015) BUSINESS AREAS	100.00 SF	416	
	57854.10 SF			1550	

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
LIFE SAFETY PLAN- LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
G-101

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PLOT SIZE

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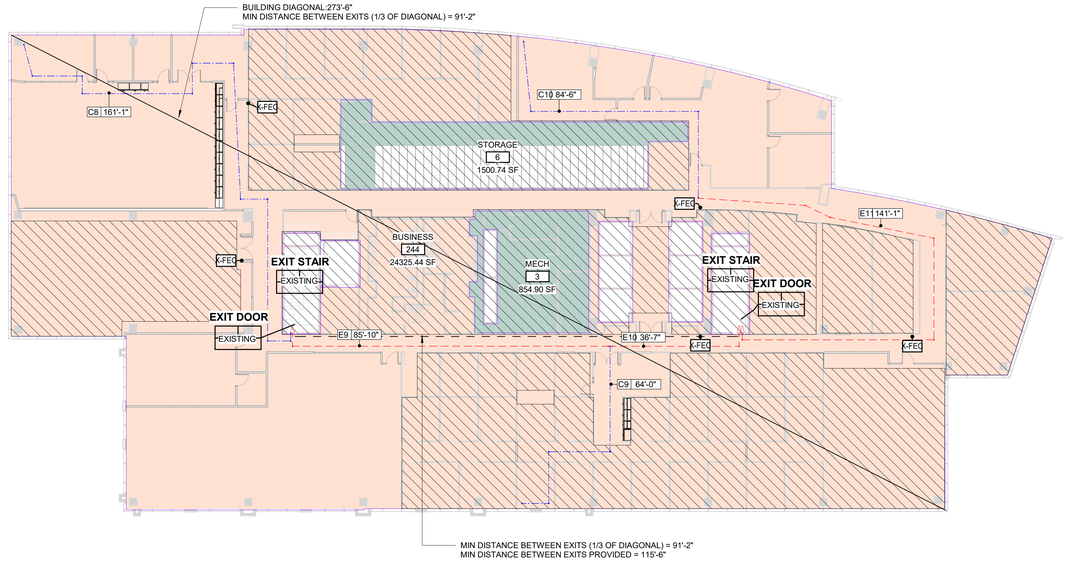
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PLOT SIZE



C1 LIFE SAFETY PLAN- LEVEL 3

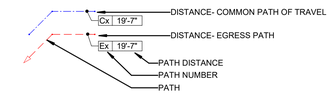
1/16" = 1'-0"

MAX COMMON PATH OF EGRESS TRAVEL DISTANCE PER TABLE 1006.2.1 = 100'
MAX EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2 = 300'

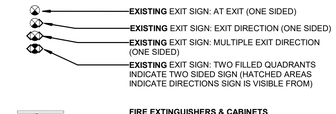
LIFE SAFETY- OCCUPANCY- LEVEL 3

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS CALCULATED	COMMENTS
MECH	854.90 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	3	
STORAGE	1500.74 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	5	
BUSINESS	24325.44 SF	(IBC2015) BUSINESS AREAS	100.00 SF	244	
	26681.09 SF			252	

CODE COMPLIANCE LEGEND





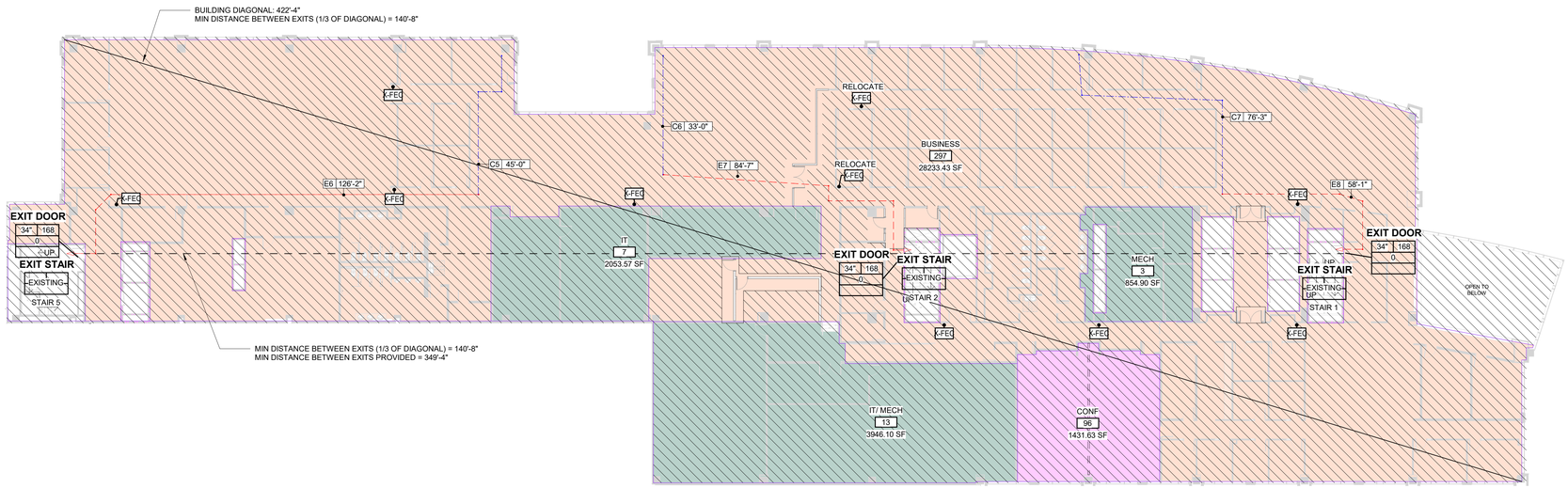




*** ALL EGRESS COMPONENTS ARE EXISTING U.N.O.; RENOVATION SCOPE MAINTAINS ALL ORIGINAL OCCUPANCY TYPE(S).**

OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED
- (IBC2015) BUSINESS AREAS



A1 LIFE SAFETY PLAN- LEVEL 2

1/16" = 1'-0"

MAX COMMON PATH OF EGRESS TRAVEL DISTANCE PER TABLE 1006.2.1 = 100'
MAX EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2 = 300'

LIFE SAFETY- OCCUPANCY- LEVEL 2

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS CALCULATED	COMMENTS
MECH	854.90 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	3	
IT	2053.57 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	7	
IT/ MECH	3946.10 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	14	
CONF	1431.63 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	96	
BUSINESS	28233.43 SF	(IBC2015) BUSINESS AREAS	100.00 SF	283	
	36519.63 SF			403	

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CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N.C.

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929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
LIFE SAFETY PLAN- LEVEL 2 AND LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
G-102

100% PERMIT SET

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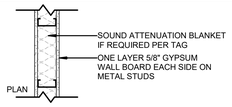
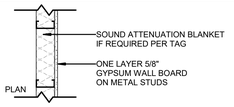


TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC
3A	3-5/8"	4 7/8"			
3AS	3-5/8"	4 7/8"			
6A	6"	7 1/4"			
6AS	6"	7 1/4"			

A METAL STUD - ONE LAYER

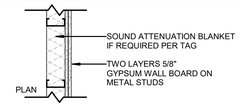
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC
2F	2-1/2"	3 1/8"			
3F	3-5/8"	4 1/4"			
3FS	3-5/8"	4 1/4"			
6FS	6"	6 5/8"			

F METAL STUD FURRED - ONE LAYER

1" = 1'-0"



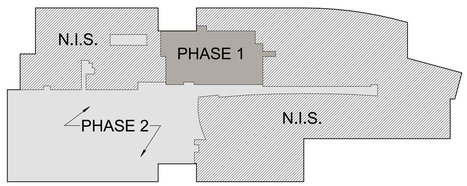
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC
6FZS	6"	7 1/4"			

F METAL STUD FURRED - TWO LAYERS

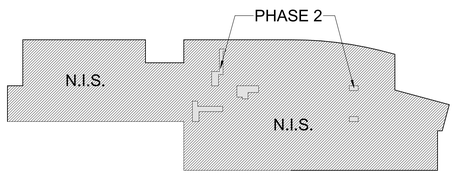
1" = 1'-0"

CONSTRUCTION PHASING KEY PLANS

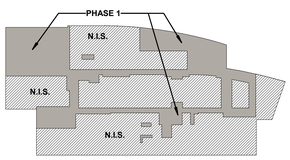
PHASE 1 | PHASE 2 | NOT IN SCOPE (N.I.S.)



LEVEL 1 - PHASING KEY PLAN



LEVEL 2 - PHASING KEY PLAN



LEVEL 3- PHASING KEY PLAN

LEVELS 10,11,12 = ALL WORK TO BE IN **PHASE 2**

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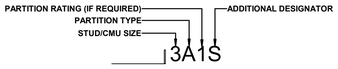
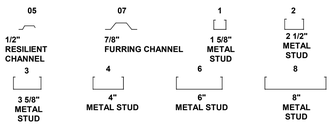
PARTITION TAG KEY



PARTITION MATERIAL & SIZE



PARTITION TYPES LEGEND

A - METAL STUD BALANCED WALL
B - METAL STUD UNBALANCED WALL
F - METAL STUD FURRED WALL
S - METAL STUD SHAFT WALL
Z - TWO LAYERS OF GWB ON EACH SIDE FOR SOUND, NON - RATED

PARTITION FIRE RATING

30 - 30 MINUTES RATED FIRE PARTITION
1 - 1HR RATED FIRE BARRIER, UNLESS W/ DESIGNATOR "C,K,P"
2 - 2HR RATED FIRE BARRIER, UNLESS W/ DESIGNATOR "C,W"
3 - 3HR RATED FIRE WALL, UNLESS W/ DESIGNATOR "B"
4 - 4HR RATED FIRE WALL, UNLESS W/ DESIGNATOR "B"
5 - NOT RATED, SMOKE PARTITION

ADDITIONAL DESIGNATORS

D - NON-RATED EXTEND TO DECK ABOVE
S - SOUND ATTENUATION BLANKET IN STUD WALL OR ACOUSTIC FILL IN CMU WALL, PARTITION SHALL EXTEND TO ADJACENT WALLS AND STRUCTURE ABOVE, PROVIDE ACOUSTICAL SEALANT AT BOTTOM, TOP AND SIDES
H - HALF WALL OR PARTIAL HEIGHT WALL

PARTITION NOTES

1. **ALL NON-DESIGNATED PARTITIONS SHALL BE 3A**
2. **NON-RATED PARTITIONS, EXCEPT THOSE WITH "D" OR "S" DESIGNATOR, GWB SHALL EXTEND 6" ABOVE THE CEILING U.N.O.**
3. **NON-RATED SMOKE PARTITIONS SHALL EXTEND TO THE STRUCTURE ABOVE.**
4. **FIRE RATED PARTITIONS SHALL EXTEND TO THE STRUCTURE ABOVE, SEE UL DETAILS FOR ADDITIONAL REQUIREMENTS**
5. **TYPE "D,E,R,Q" PARTITIONS SHALL EXTEND TO ADJACENT WALLS AND STRUCTURE ABOVE, PROVIDE ACOUSTICAL SEALANT AT BOTTOM, TOP, AND SIDES**
6. **AT WET AREAS, PROVIDE MOISTURE RESISTANT GWB OR MOLD & MOISTURE RESISTANT GWB AT NON-RATED PARTITIONS. PROVIDE FIRE RATED MOISTURE RESISTANT GWB OR FIRE RATED MOLD & MOISTURE RESISTANT GWB AT RATED PARTITIONS.**
7. **ON PARTITIONS RECEIVING WALL TILE (REFER TO FINISH SCHEDULE) PROVIDE CEMENTITIOUS BACKER BOARD BEHIND PORTIONS OF PARTITION RECEIVING TILE ONLY.**

PARTITION TAG EXAMPLES

3A 3 5/8" METAL STUD, NON-RATED, GWB 6" ABOVE CLG
3AD 3 5/8" METAL STUD, NON-RATED, EXTEND TO DECK ABOVE
3AS 3 5/8" METAL STUD, NON-RATED W/ SOUND ATTENUATION
3A1K 3 5/8" METAL STUD, 1 HOUR RATED SMOKE BARRIER
3A1S 3 5/8" METAL STUD, 1 HOUR RATED FIRE BARRIER W/ SOUND ATTENUATION
3AZS 3 5/8" METAL STUD, NON-RATED, (2) LAYERS OF GWB EACH SIDE W/ SOUND ATTENUATION
3A3 3 5/8" METAL STUD, 3 HOUR RATED FIRE WALL
3A5 3 5/8" METAL STUD, NON RATED SMOKE PARTITION

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929 N Front Street
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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
PARTITION TYPES AND PHASING KEY

ORIG SUBMISSION: 2024.10.29

SHEET:
A-001

100% PERMIT SET


RELOCATING X# OF LOCKERS TO RETIREMENT RM.
EXISTING PARTITIONS THIS SIDE TO REMAIN
EXISTING PARTITIONS THIS SIDE TO BE DEMOLISHED
RETIREMENT RM 130
CONFERENCE 134D
CONFERENCE 134E
CONFERENCE 134F
CONFERENCE 134G
CONFERENCE 134H
CONFERENCE 134J
STO 134A
STO 134B
STO 134C
OPEN OFFICE 202
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C1 DEMOLITION FLOOR PLAN- LEVEL 2

1/16" = 1'-0"



A1 FLOOR PLAN - LEVEL 2

1/16" = 1'-0"

#	DEMOLITION NOTES BY NUMBER
NUMBER	NOTE
1	EXISTING MOVABLE PARTITION TO BE DEMOLISHED.
2	EXISTING WALLS TO BE DEMOLISHED. EXISTING DOOR AND FRAME TO BE REMOVED AND SAVED FOR FUTURE USE (OWNER TO CONFIRM)
3	DEMO THREE TLT PARTITIONS AND DEMO 2 TOILET FIXTURES, 3RD TOILET TO REMAIN FOR REWORK
4	EXISTING DOOR AND FRAME TO BE REMOVED FROM WEST WALL AND RELOCATED TO EAST WALL. PATCH AS NEEDED.
5	EXISTING DOOR AND FRAME TO BE REMOVED AND RELOCATED / SAVED FOR FUTURE USE(OWNER TO CONFIRM). OPENING TO REMAIN FOR NEW STOREFRONT WINDOW
6	EXISTING WALL TO BE DEMOLISHED. PATCH CEILING AS NEEDED.
7	EXISTING DOOR TO BE REMOVED AND SAVED FOR FUTURE USE (OWNER TO CONFIRM).
8	EXISTING DOOR TO BE REMOVED AND SAVED FOR FUTURE USE (OWNER TO CONFIRM).
8	PORTION OF EXISTING WALLS TO BE DEMOLISHED. ALIGN NEW OPENING WIDTH W/ CORRIDOR 212.7
9	PORTION OF EXISTING WALL TO BE DEMOLISHED IN PREP FOR A NEW DOOR
10	EXISTING DOOR, SIDELIGHT, AND FRAME TO BE REMOVED AND RELOCATED (OWNER TO CONFRIM)
11	2'-6" OF EXISTING WALL TO REMAIN TO ACCOMODATE NEW CASEWORK
12	EXISTING WALL TO BE PARTIALLY DEMOLISHED. PATCH CEILING AND END CAP OF EXISTING WALLS AS NEEDED

DEMOLITION PLAN SHEET NOTES

A. SEE G-0001 FOR SHEET-SPECIFIC GRAPHICS & SYMBOLS.
B. NUMBERED KEY NOTES DO NOT IMPLY SEQUENCE. CONTRACTOR TO PERFORM DEMOLITION WORK AS REQUIRED PER WORK SEQUENCE.
C. DEMOLITION DRAWINGS ARE INTENDED TO SHOW GENERAL AREAS OF DEMOLITION AS WELL AS GENERAL EXISTING CONDITIONS. THEY DO NOT SHOW ALL WORK WHICH MAY BE NECESSARY. COMPARE WITH DRAWINGS INDICATING NEW CONSTRUCTION.
D. REFER TO OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DEMOLITION. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
E. EXISTING WORK TO REMAIN SHALL BE TEMPORARILY SECURED, BRACED, STABILIZED AND PROTECTED UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
F. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT FOR INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS WHICH ARE TO REMAIN.
G. VERIRY FIELD CONDITIONS PRIOR TO START OF DEMOLITION/CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
H. VERIFY THAT CONSTRUCTION INDICATED FOR REMOVAL IS NOT LOAD BEARING OR IS ADEQUATELY SHORED AS INDICATED ON STRUCTURAL DRAWINGS PRIOR TO STARTING ANY WORK.
I. ERECT BARRICADES, FENCES OR OTHER SECURABLE MEANS TO PREVENT UNAUTHORIZED ACCESS INTO CONSTRUCTION ZONES.
J. DO NOT ALLOW MATERIAL AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON-SITE SALE OR BURNING OF REMOVED ITEMS IS PERMITTED.
K. TERMINATE AND CAP UTILITIES IN WALLS, CEILINGS, AND FLOORS, NOTED TO BE REMOVED AND NOT INTENDED FOR REUSE.
L. PREPARE AND PATCH SURFACES THAT ARE TO RECEIVE NEW FINISHES REQUIRED AFTER REMOVING OR RELOCATING DEVICES, WIRING OR OTHER APPURTENANCES, REFER TO FINISH SCHEDULE FOR NEW FINISHES.
M. MAINTAIN EXISTING FINISHES, OPERATIONAL CHARACTERISTICS, AND APPEARANCE OF ITEMS SCHEDULED TO REMAIN OR BE REUSED.
N. IN THE EVENT THAT ANY PARTY ENCOUNTERS SUSPECTED ASBESTOS, HAZARDOUS OR OTHER TOXIC MATERIAL AT THE JOB SITE, OR SHOULD IT BECOME KNOWN THAT SUCH MATERIAL MAY BE PRESENT AT THE JOB SITE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT IMMEDIATELY IN WRITING.

FLOOR PLAN SHEET NOTES

A. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD FOR NEW PARTITIONS AND FACE OF EXISTING WALLS WHEN DIMENSIONS ARE PULLED FROM EXISTING PARTITION.
B. ALL NON-DESIGNATED PARTITIONS SHALL BE 3A.
C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
D. RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE. ALL PENETRATIONS AND TERMINAL JOINTS ARE TO BE INSTALLED AS SHOWN IN APPLICABLE UL JOINT OR PENETRATION DETAIL.
E. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
F. RATED WALLS INTERSECTING EXTERIOR WALLS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING.
G. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM, AND RELATED CONSTRUCTION.
H. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED AND SMOKE WALLS
I. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS (OR PARTITION SCHEDULE)
J. SEE SHEETA-700'S FOR INTERIOR ELEVATIONS, ACCESSORY DESCRIPTIONS & MOUNTING HEIGHTS.
K. FIELD VERIFY LOCATION OF INTERIOR WALL & CEILING CONTROL JOINTS REQUIRED IN THE SPECIFICATION WITH ARCHITECT PRIOR TO INSTALLATION.
L. WALLS, INCLUDING GYP. BD. AT PERIMETER OF ROOMS/SPACES WITHOUT CEILINGS, I.E. EXPOSED STRUCTURE, SHALL EXTEND TO STRUCTURE ABOVE.

FLOOR PLAN LEGEND

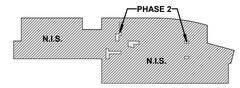
BUILDING ELEMENTS

EXISTING PARTIION TO REMAIN

NEW PARTITION

NOT IN SCOPE

#	FLOOR PLAN NOTES BY NUMBER
NUMBER	NOTE
1	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
2	TEMPORARY WALL/ DOORS TO BE FINISHES ON CORRIDOR SIDE. ALL FINISHES AND FIXTURES TO REMAIN INSIDE SUITE. PATCH FLOOR AND CEILING AS NEEDED. DEMO LIGHT FIXTURES AS REQ'D. TO ACCOMODATE TEMP WALL.
3	EXISTING DOOR AND FRAME TO BE REMOVED FROM WEST WALL AND RELOCATED TO EAST WALL. PATCH AS NEEDED.
4	PATCH EXISTING WALL FINISH AND BASE TO MATCH EXISTING AT NEW DOOR
5	ALIGN NEW PARTITION W/ MULLION. PROVIDE MULLION MATE PRO REQ'D
6	ALIGN NEW PARTITION W/ EXISTING PARTITION
7	SHD-1 NEW WINDOW SHADES
8	2'-6" OF EXISTING WALL TO REMAIN TO ACCOMODATE NEW CASEWORK
20	ALIGN NEW PARTITION W/ EXISTING PARTITION
21	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
22	EXISTING WINDOW SHADES TO REMAIN. PROVIDE WINDOW/ SHADING WELL TO ACCOMODATE NEW CEILING IF REQ'D.
23	EXISTING RECESSED FLOOR. 4" CONCRETE SLAB WITH #4 REBAR AT 18" SPACING BOTH WAYS. OVER HIGH DENSITY RIGID INSULATION. GC TO VIF.
24	MULLION MATE PLUS AGAINST THE GLASS REQ'D



LEVEL 2- PHASING KEY PLAN

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CHARLES H. BONEY REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
FLOOR PLAN- LEVEL 2- DEMO & NEW

ORIG SUBMISSION: 2024.10.29

SHEET:
A-102

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

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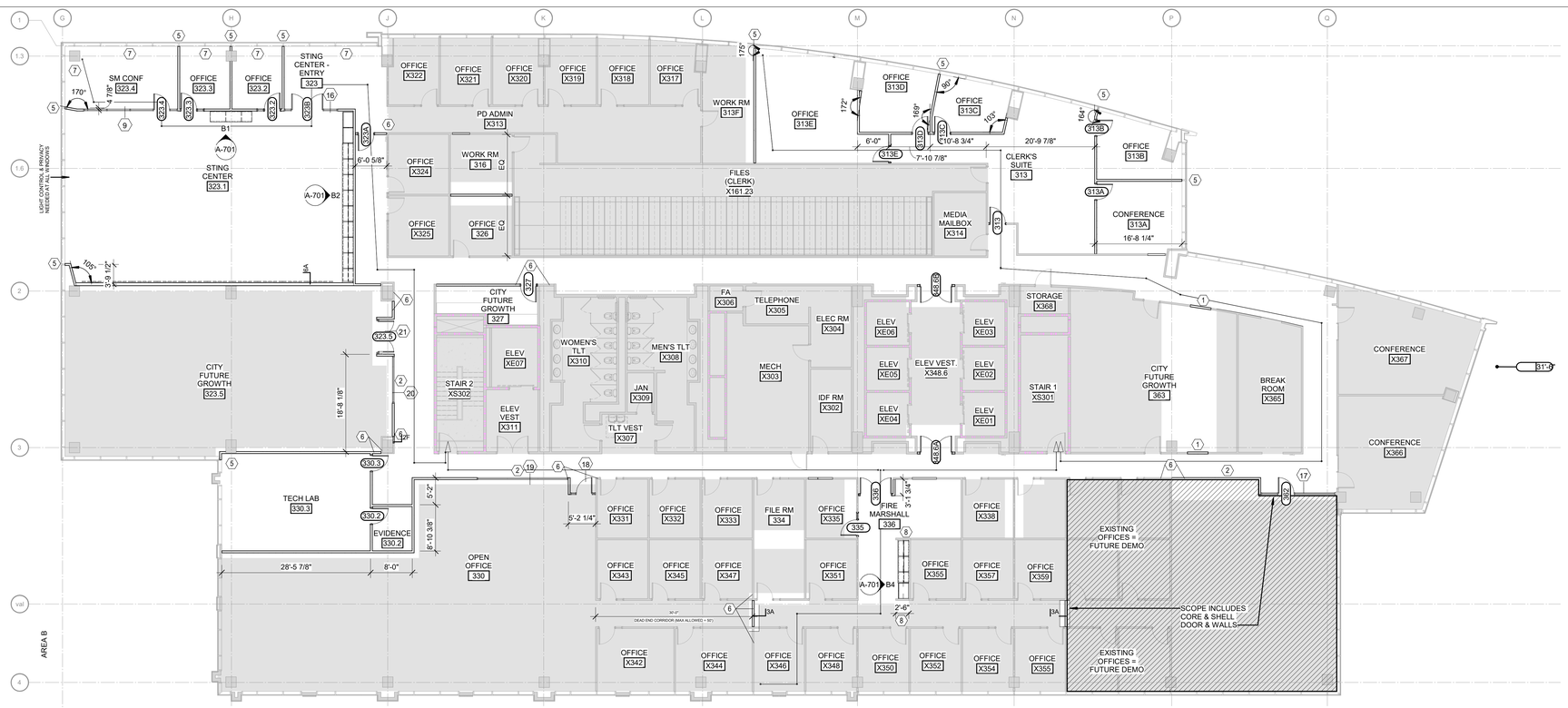
C1 DEMOLITION FLOOR PLAN- LEVEL 3

3/32" = 1'-0"



A1 FLOOR PLAN - LEVEL 3

3/32" = 1'-0"

DEMOLITION NOTES BY NUMBER

# NUMBER	NOTE
1	EXISTING MOVABLE PARTITION TO BE DEMOLISHED.
2	EXISTING WALLS TO BE DEMOLISHED. EXISTING DOOR AND FRAME TO BE REMOVED AND SAVED FOR FUTURE USE (OWNER TO CONFIRM)
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DEMOLITION PLAN SHEET NOTES

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FLOOR PLAN SHEET NOTES

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C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
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F. RATED WALLS INTERSECTING EXTERIOR WALLS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING.
G. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM, AND RELATED CONSTRUCTION.
H. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED AND SMOKE WALLS
I. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS (OR PARTITION SCHEDULE)
J. SEE SHEET A-700'S FOR INTERIOR ELEVATIONS, ACCESSORY DESCRIPTIONS & MOUNTING HEIGHTS.
K. FIELD VERIFY LOCATION OF INTERIOR WALL & CEILING CONTROL JOINTS REQUIRED IN THE SPECIFICATION WITH ARCHITECT PRIOR TO INSTALLATION.
L. WALLS, INCLUDING GYP. BD. AT PERIMETER OF ROOMS/SPACES WITHOUT CEILINGS, i.e. EXPOSED STRUCTURE, SHALL EXTEND TO STRUCTURE ABOVE.

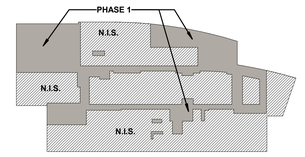
FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

FLOOR PLAN NOTES BY NUMBER

# NUMBER	NOTE
1	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
2	TEMPORARY WALL/ DOORS TO BE FINISHES ON CORRIDOR SIDE. ALL FINISHES AND FIXTURES TO REMAIN INSIDE SUITE; PATCH FLOOR AND CEILING AS NEEDED. DEMO LIGHT FIXTURES AS REQ'D. TO ACCOMODATE TEMP WALL.
3	EXISTING DOOR AND FRAME TO BE REMOVED FROM WEST WALL AND RELOCATED TO EAST WALL. PATCH AS NEEDED.
4	PATCH EXISTING WALL FINISH AND BASE TO MATCH EXISTING AT NEW DOOR
5	ALIGN NEW PARTITION W/ MULLION. PROVIDE MULLION MATE PRO REQ'D
6	ALIGN NEW PARTITION W/ EXISTING PARTITION
7	SHD-1 NEW WINDOW SHADES
8	2'-6" OF EXISTING WALL TO REMAIN TO ACCOMODATE NEW CASEWORK
20	ALIGN NEW PARTITION W/ EXISTING PARTITION
21	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
22	EXISTING WINDOW SHADES TO REMAIN. PROVIDE WINDOW/ SHADING WELL TO ACCOMODATE NEW CEILING IF REQ'D.
23	EXISTING RECESSED FLOOR, 4" CONCRETE SLAB WITH #4 REBAR AT 18" SPACING BOTH WAYS, OVER HIGH DENSITY RIGID INSULATION. GC TO VIF.
24	MULLION MATE PLUS AGAINST THE GLASS REQ'D



LEVEL 3 - PHASING KEY PLAN

CITY OF WILMINGTON

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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON NORTH CAROLINA

CHARLES H. BONEY JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N.C.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME: FLOOR PLAN- LEVEL 3- DEMO & NEW

ORIG SUBMISSION: 2024.10.29

SHEET: A-103

100% PERMIT SET

10/29/2024 2:30:31 PM

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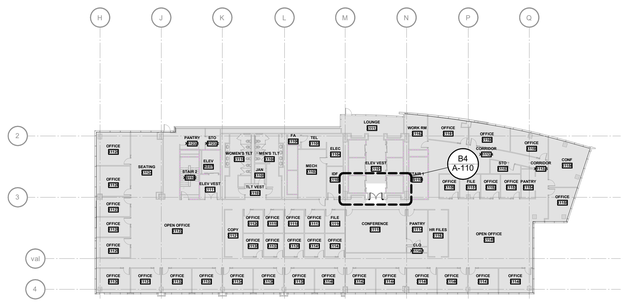
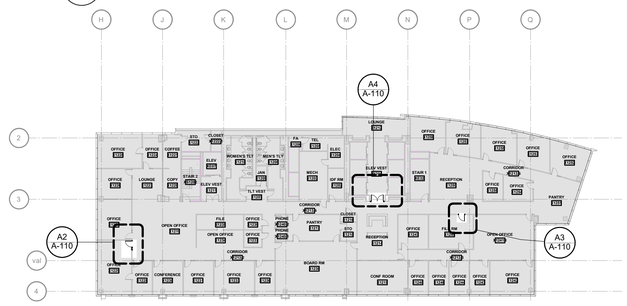
E1 FLOOR PLAN - LEVEL 10

1" = 30'-0"



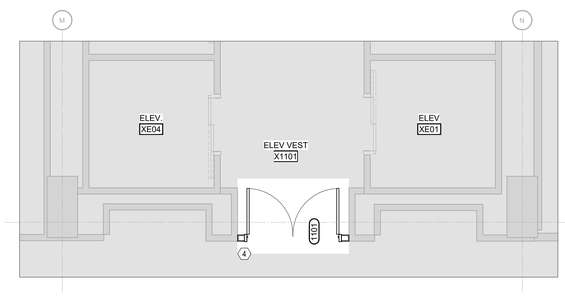
C1 KEY PLAN - LEVEL 11

1" = 30'-0"



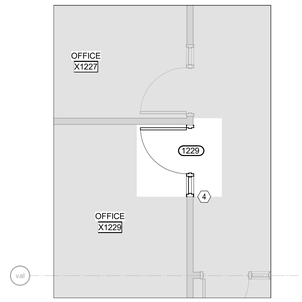
A1 KEY PLAN - LEVEL 12

1" = 30'-0"



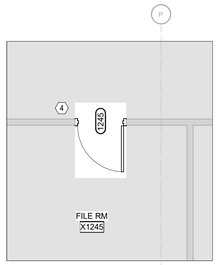
B4 ENL PLAN - ELEV VEST 1101

1/4" = 1'-0"



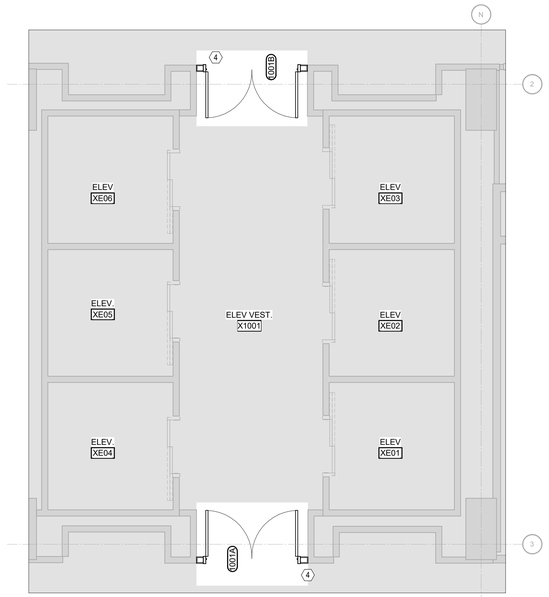
A2 ENL PLAN - OFFICE 1229

1/4" = 1'-0"



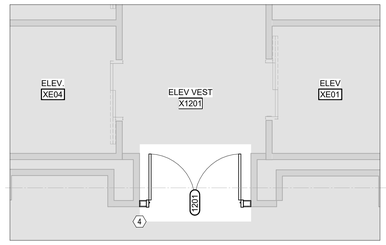
A3 ENL PLAN - FILE RM 1245

1/4" = 1'-0"



C4 ENL PLAN - ELEV VEST 1001

1/4" = 1'-0"



A4 ENL PLAN - ELEV VEST 1201

1/4" = 1'-0"

FLOOR PLAN SHEET NOTES

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C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
D. RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE. ALL PENETRATIONS AND TERMINAL JOINTS ARE TO BE INSTALLED AS SHOWN IN APPLICABLE UL JOINT OR PENETRATION DETAIL.
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FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

FLOOR PLAN NOTES BY NUMBER

NUMBER	NOTE
1	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
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TEL. 910.790.9901 FAX. 910.790.3111
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 NORTH CAROLINA WILMINGTON, NORTH CAROLINA

CHARLES H. BONEY IV REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON

2024.10.29 16:31:52-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
FLOOR PLAN
10,11,12

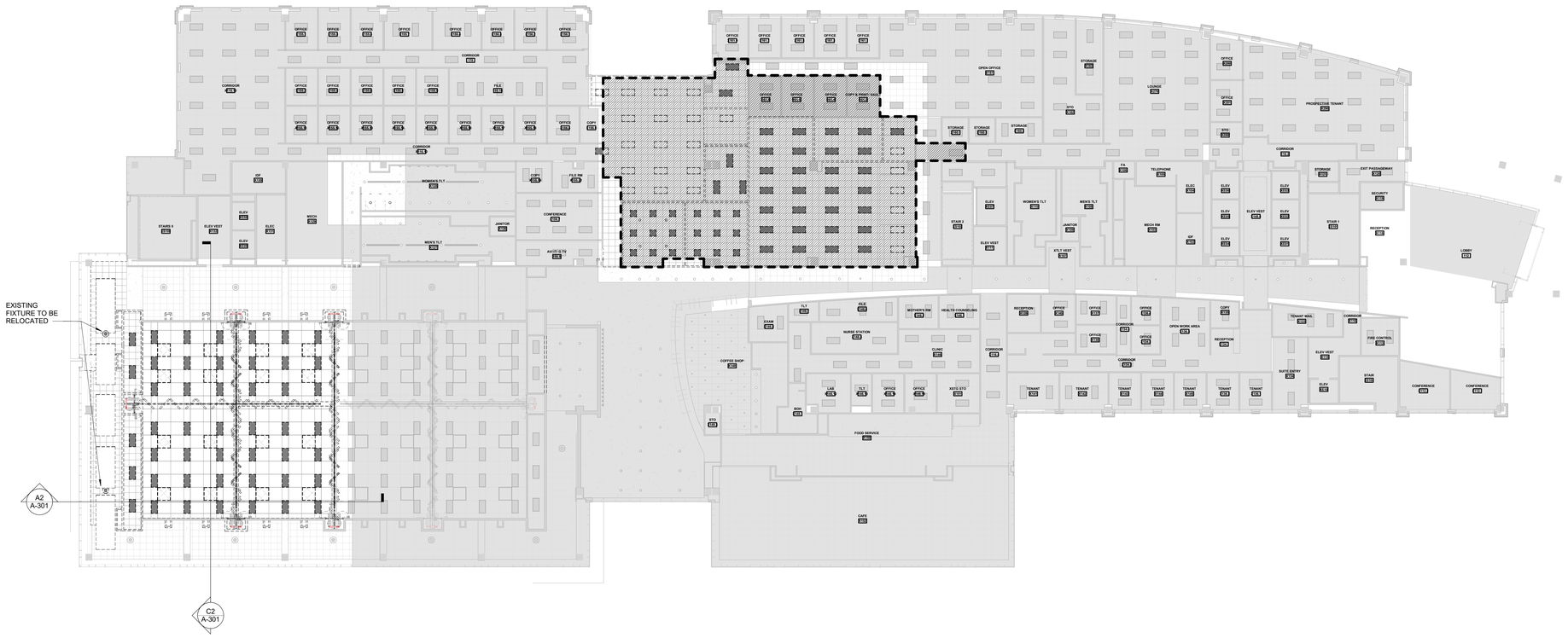
ORIG SUBMISSION: 2024.10.29

SHEET:
A-110

100% PERMIT SET

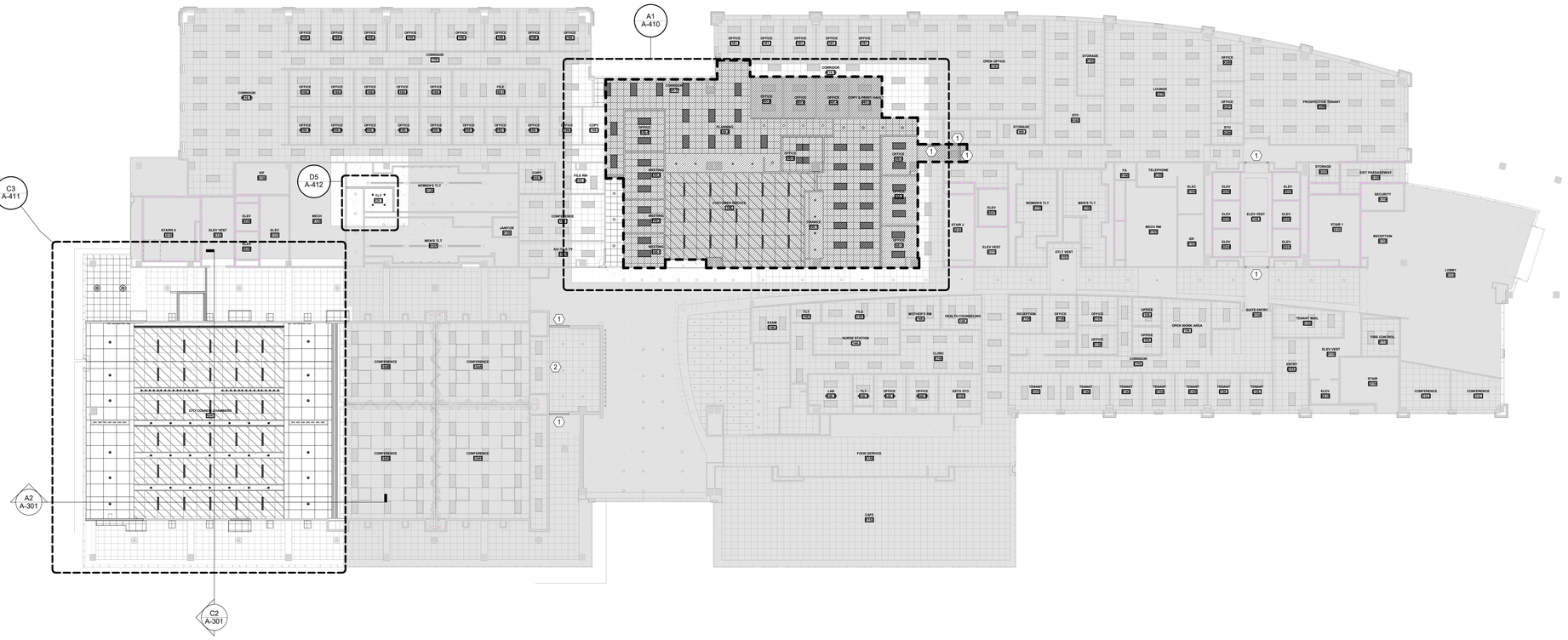
10/28/2024 2:30:39 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



C1 DEMOLITION-RCP-OVERALL- LEVEL 1

1/16" = 1'-0"



A1 REFLECTED CEILING PLAN- LEVEL 1 - OVERALL

1/16" = 1'-0"

DEMOLITION RCP SHEET NOTES

A. SEE G-0001 FOR SHEET-SPECIFIC GRAPHICS & SYMBOLS.
B. NUMBERED KEY NOTES DO NOT IMPLY SEQUENCE. CONTRACTOR TO PERFORM DEMOLITION WORK AS REQUIRED PER WORK SEQUENCE.
C. DEMOLITION DRAWINGS ARE INTENDED TO SHOW GENERAL AREAS OF DEMOLITION AS WELL AS GENERAL EXISTING CONDITIONS. THEY DO NOT SHOW ALL WORK WHICH MAY BE NECESSARY. COMPARE WITH DRAWINGS INDICATING NEW CONSTRUCTION.
D. REFER TO OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DEMOLITION. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
E. EXISTING WORK TO REMAIN SHALL BE TEMPORARILY SECURED, BRACED, STABILIZED AND PROTECTED UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
F. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT FOR INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS WHICH ARE TO REMAIN.
G. VERIRY FIELD CONDITIONS PRIOR TO START OF DEMOLITION/CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
H. VERIFY THAT CONSTRUCTION INDICATED FOR REMOVAL IS NOT LOAD BEARING OR IS ADEQUATELY SHORED AS INDICATED ON STRUCTURAL DRAWINGS PRIOR TO STARTING ANY WORK.
I. ERECT BARRICADES, FENCES OR OTHER SECURABLE MEANS TO PREVENT UNAUTHORIZED ACCESS INTO CONSTRUCTION ZONES.
J. DO NOT ALLOW MATERIAL AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON-SITE SALE OR BURNING OF REMOVED ITEMS IS PERMITTED.
K. TERMINATE AND CAP UTILITIES IN WALLS, CEILINGS, AND FLOORS, NOTED TO BE REMOVED AND NOT INTENDED FOR REUSE.
L. PREPARE AND PATCH SURFACES THAT ARE TO RECEIVE NEW FINISHES REQUIRED AFTER REMOVING OR RELOCATING DEVICES, WIRING OR OTHER APPURTENANCES, REFER TO FINISH SCHEDULE FOR NEW FINISHES.
M. MAINTAIN EXISTING FINISHES, OPERATIONAL CHARACTERISTICS, AND APPEARANCE OF ITEMS SCHEDULED TO REMAIN OR BE REUSED.
N. IN THE EVENT THAT ANY PARTY ENCOUNTERS SUSPECTED ASBESTOS, HAZARDOUS OR OTHER TOXIC MATERIAL AT THE JOB SITE, OR SHOULD IT BECOME KNOWN THAT SUCH MATERIAL MAY BE PRESENT AT THE JOB SITE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT IMMEDIATELY IN WRITING.

RCP LEGEND

MATERIAL PATTERNS

- PAINTED GWB
- ACT-1; 48"x48" WOOD LOOK
- ACT-2; 24"x24" ACT, WOOD LOOK
- ACT-3; 24"x24" ACT, WHITE
- ACT-4; 48"x48" ACT, WHITE

REF: CEILING TAGS AND SPECIFICATIONS

BUILDING ELEMENTS

- CEILING TYPE
- GWB 10'-0" — HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
- DASHED = FIXTURE TO BE DEMOLISHED
- HALFTONE = EXISTING FIXTURE TO REMAIN
- SOLID = NEW 2'X4' LED FIXTURE
- LINEAR LED RECESSED
- THEATER/ STAGE TRACK LIGHTING BY OTHER
- SQUARE RECESSED LED
- ROUND RECESSED LED
- LED PENDANT
- SYMBOL SHAPES WILL VARY
- NOT IN SCOPE

FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

REFLECTED CEILING PLAN SHEET NOTES

A. PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
B. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
C. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
D. NEW PARTITIONS TO BE 4" ABOVE FINISHED CEILING U.N.O.
E. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
F. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
G. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
H. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
I. PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
J. HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE "1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
K. TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
L. INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.

RCP NOTES BY NUMBER

NUMBER	NOTE
1	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
2	NEW PARTITION TO TERMINATE AT UNDERSIDE OF EXISTING CEILING. PATCH AS NEEDED.
3	NEW PARTITION TO EXTEND 4" ABOVE CEILING. DEMO PORTION OF EXISTING CEILING AT NEW PARTITION. PATCH GRID AND ACT AROUND NEW PARTITION AS NEED.
4	ALIGN NEW GWB CEILING W/ EXISTING
5	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
6	NEW ACT CEILING TO ALIGN W/EXISTING. DEMO PARTIAL TILE AND REPLACE WITH FULL TILE AND NEW GRID. EXTEND NEW CEILING FROM THERE.
7	NEW LIGHTS IN EXISTING ACT CEILING
8	LIGHTS CENTERED IN ALL DIRECTIONS
9	PATCH CEILING W/ MATCHING ACT WHERE WALLS ARE DEMOLISHED
10	RELOCATE EXISTING FIXTURE FROM WEST CORRIDOR
11	GWB TRANSITION REQ'D AT MATERIAL CHANGE.

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA NORTH CAROLINA

CHARLES H. BONEY REGISTERED ARCHITECT NO. 4276 NORTH CAROLINA WILMINGTON, N.C.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

L53P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME: RCP-LEVEL 1- DEMO & NEW

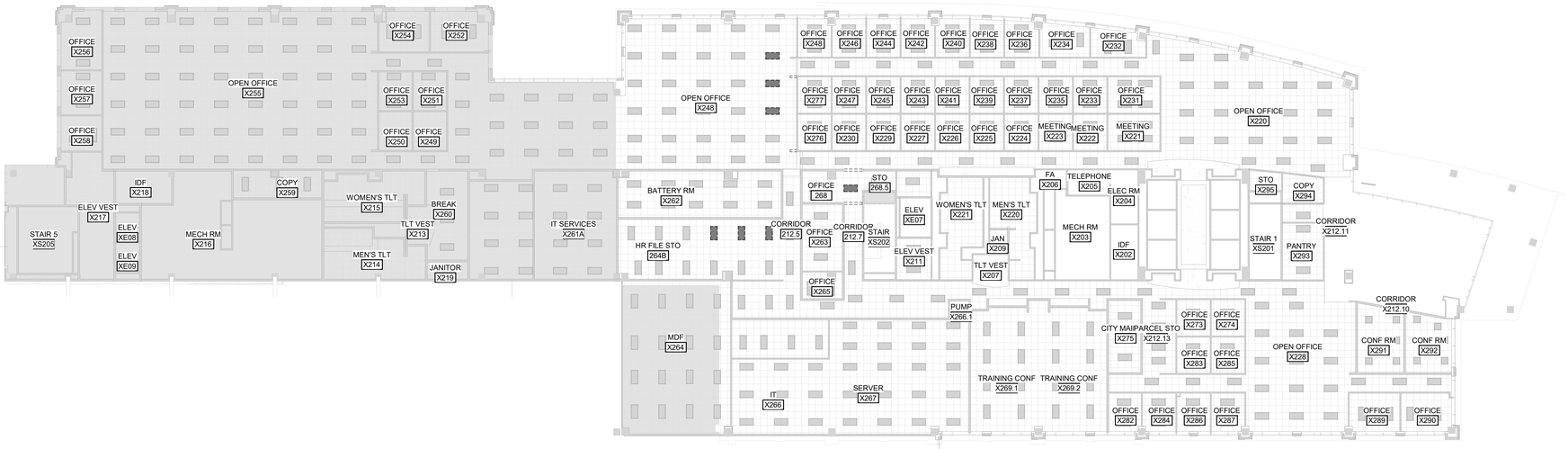
ORIG SUBMISSION: 2024.10.29

SHEET: A-201

100% PERMIT SET

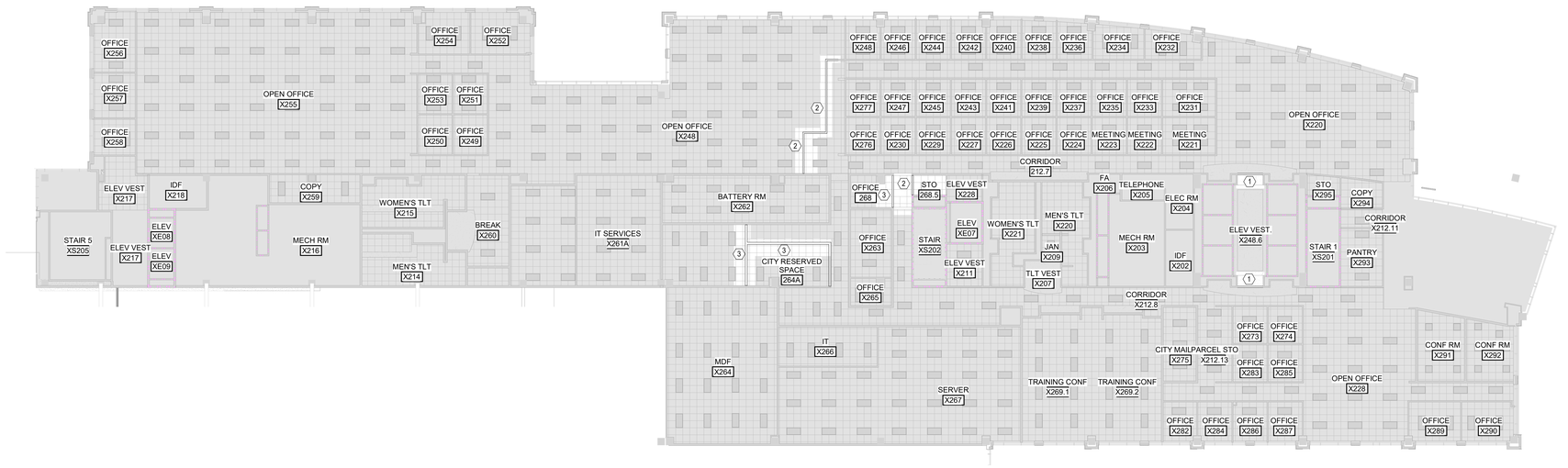
10/29/2024 2:30:50 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



C1 DEMOLITION-RCP-OVERALL- LEVEL 2

1/16" = 1'-0"



A1 REFLECTED CEILING PLAN- LEVEL 2 - OVERALL

1/16" = 1'-0"

10/29/2024 2:30:58 PM

DEMOLITION RCP SHEET NOTES

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RCP LEGEND

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REF: CEILING TAGS AND SPECIFICATIONS

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FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

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H. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
I. PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
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RCP NOTES BY NUMBER

# NUMBER	NOTE
1	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
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11	GWB TRANSITION REQ'D AT MATERIAL CHANGE

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA NORTH CAROLINA

CHARLES H. BOWEY JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

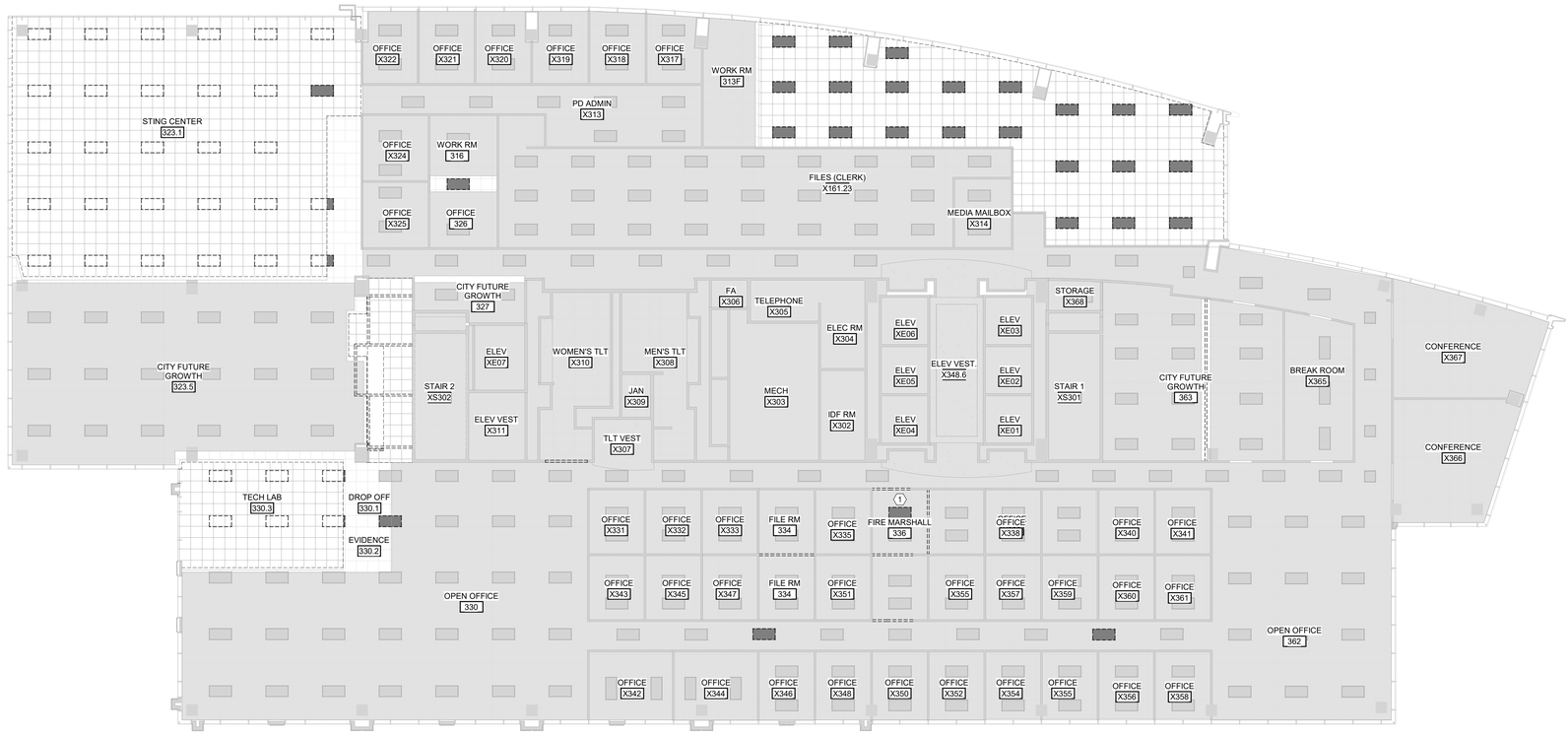
Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
RCP- LEVEL 2- DEMO & NEW

ORIG SUBMISSION: 2024.10.29

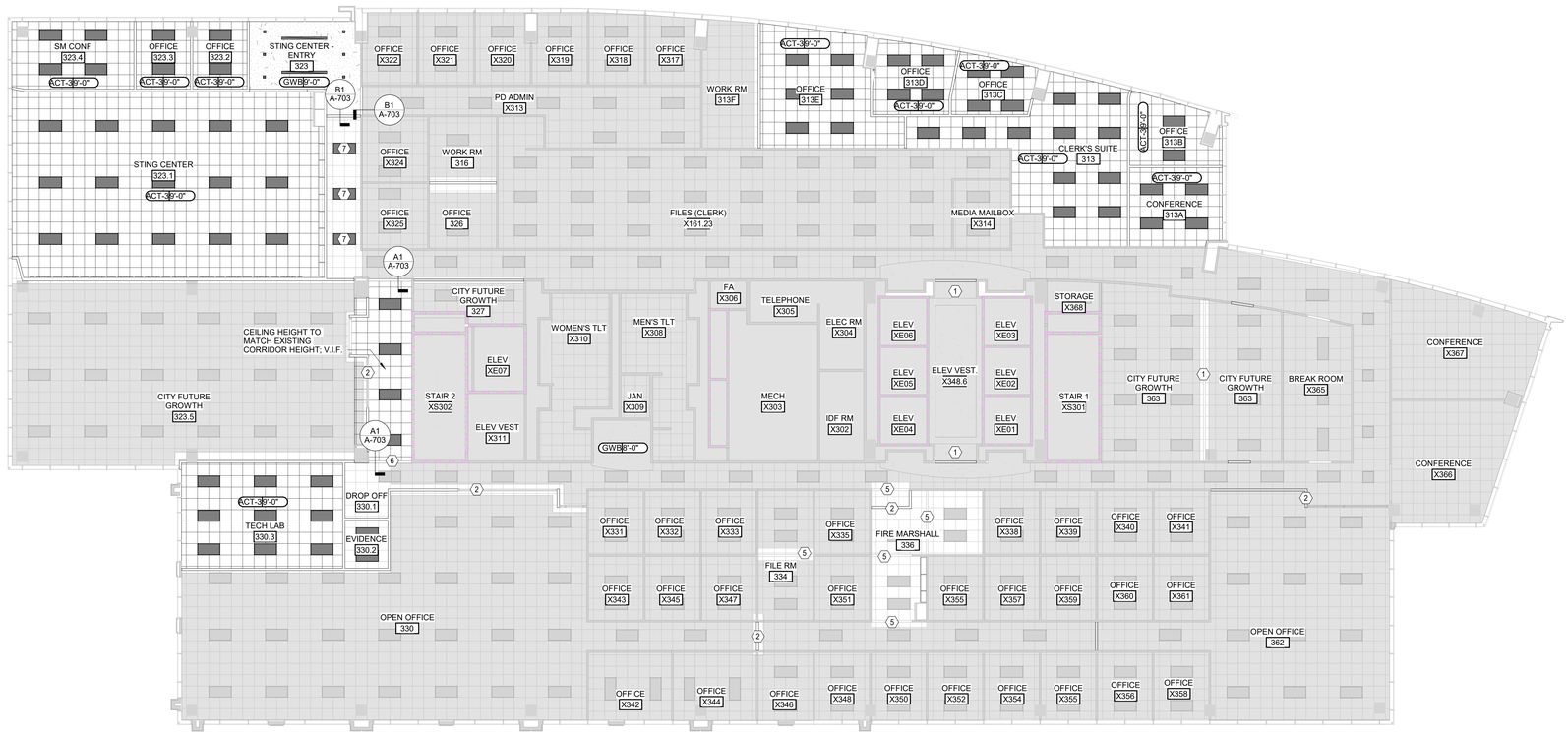
SHEET:
A-202

100% PERMIT SET



C1 DEMOLITION-RCP-OVERALL- LEVEL 3

3/32" = 1'-0"



A1 REFLECTED CEILING PLAN- LEVEL 3

3/32" = 1'-0"

DEMOLITION RCP SHEET NOTES

A. SEE G-0001 FOR SHEET-SPECIFIC GRAPHICS & SYMBOLS.
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RCP LEGEND

MATERIAL PATTERNS

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REF: CEILING TAGS AND SPECIFICATIONS

BUILDING ELEMENTS

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FLOOR PLAN LEGEND

BUILDING ELEMENTS

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- NOT IN SCOPE

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J. HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE "1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
K. TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
L. INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.

RCP NOTES BY NUMBER

NUMBER	NOTE
1	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
2	NEW PARTITION TO TERMINATE AT UNDERSIDE OF EXISTING CEILING. PATCH AS NEEDED.
3	NEW PARTITION TO EXTEND 4" ABOVE CEILING. DEMO PORTION OF EXISTING CEILING AT NEW PARTITION. PATCH GRID AND ACT AROUND NEW PARTITION AS NEED.
4	ALIGN NEW GWB CEILING W/ EXISTING
5	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
6	NEW ACT CEILING TO ALIGN W/EXISTING. DEMO PARTIAL TILE AND REPLACE WITH FULL TILE AND NEW GRID. EXTEND NEW CEILING FROM THERE.
7	NEW LIGHTS IN EXISTING ACT CEILING
8	LIGHTS CENTERED IN ALL DIRECTIONS
9	PATCH CEILING W/ MATCHING ACT WHERE WALLS ARE DEMOLISHED
10	RELOCATE EXISTING FIXTURE FROM WEST CORRIDOR
11	GWB TRANSITION REQ'D AT MATERIAL CHANGE

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA NORTH CAROLINA

CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON

2024.10.29 16:39:37-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME: RCP- LEVEL 3- DEMO & NEW

ORIG SUBMISSION: 2024.10.29

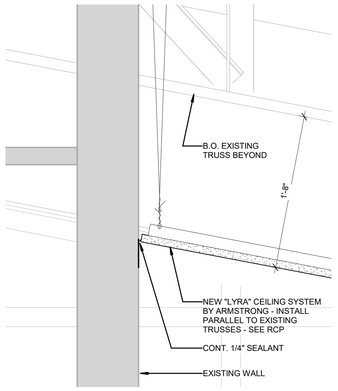
SHEET: A-203

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SIZE

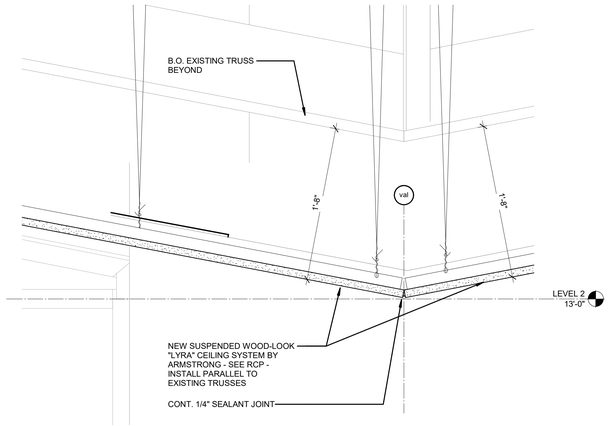
10/28/2024 2:48:08 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAPER SIZE



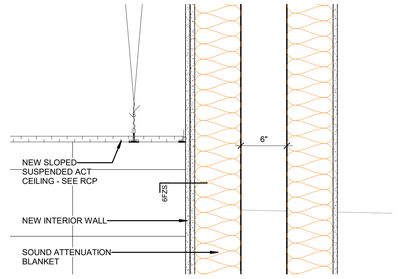
D1 CLG DET. @ S. WALL - COUNCIL

1 1/2" = 1'-0"



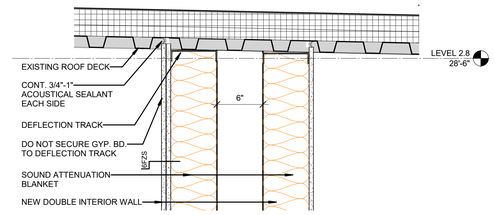
D2 CEILING DETAIL @ PITCH BREAK - COUNCIL

1 1/2" = 1'-0"



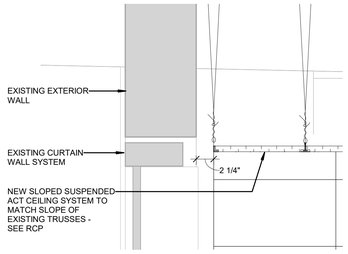
D4 CLG DET. @ EAST WALL - COUNCIL

1 1/2" = 1'-0"



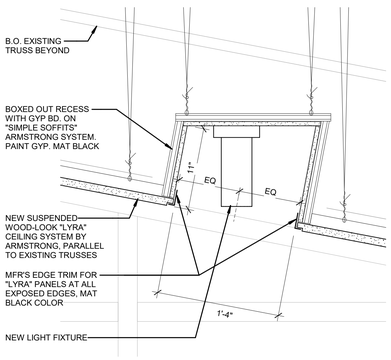
D5 DETAIL @ NEW EAST WALL- EXSTG ROOF- COUNCIL

1 1/2" = 1'-0"



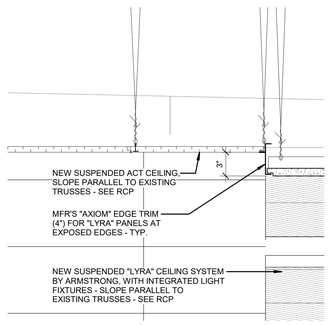
C1 CLG DET. @ W. WALL - COUNCIL

1 1/2" = 1'-0"



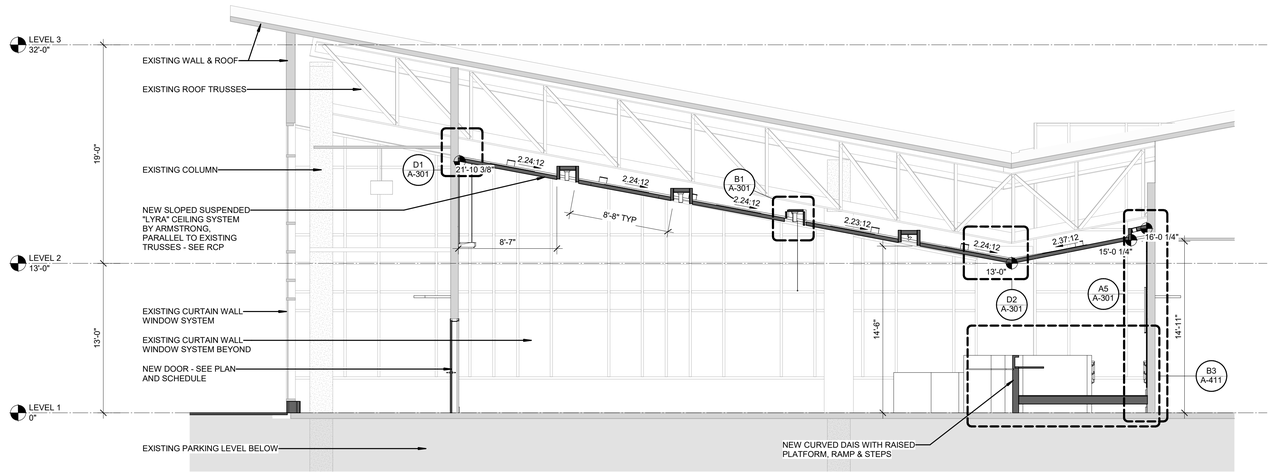
B1 RECESS DET. @ LYRA CLG

1 1/2" = 1'-0"



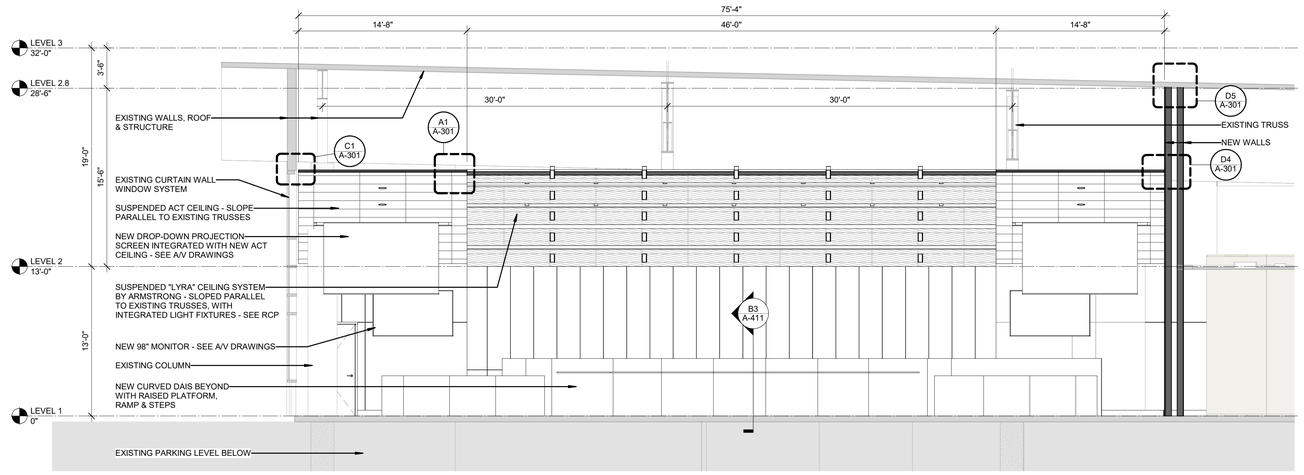
A1 CLG DET. @ TRANSITION - COUNCIL

1 1/2" = 1'-0"



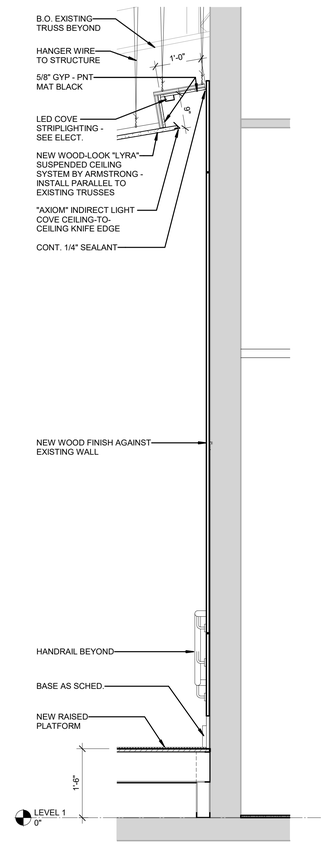
C2 BUILDING SECTION - COUNCIL - PLAN EAST

3/16" = 1'-0"



A2 BUILDING SECTION - COUNCIL - PLAN NORTH

3/16" = 1'-0"



A5 WALL SCTN @ NORTH - COUNCIL

3/4" = 1'-0"

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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CERT. NO. 50417
WILMINGTON, NORTH CAROLINA

CHARLES H. BONEY, JR.
REGISTERED ARCHITECT
4276
NORTH CAROLINA
WILMINGTON, N. CAROLINA

2024.10.29 16:30:22-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
SECTIONS & DETAILS - CITY COUNCIL

ORIG SUBMISSION: 2024.10.29

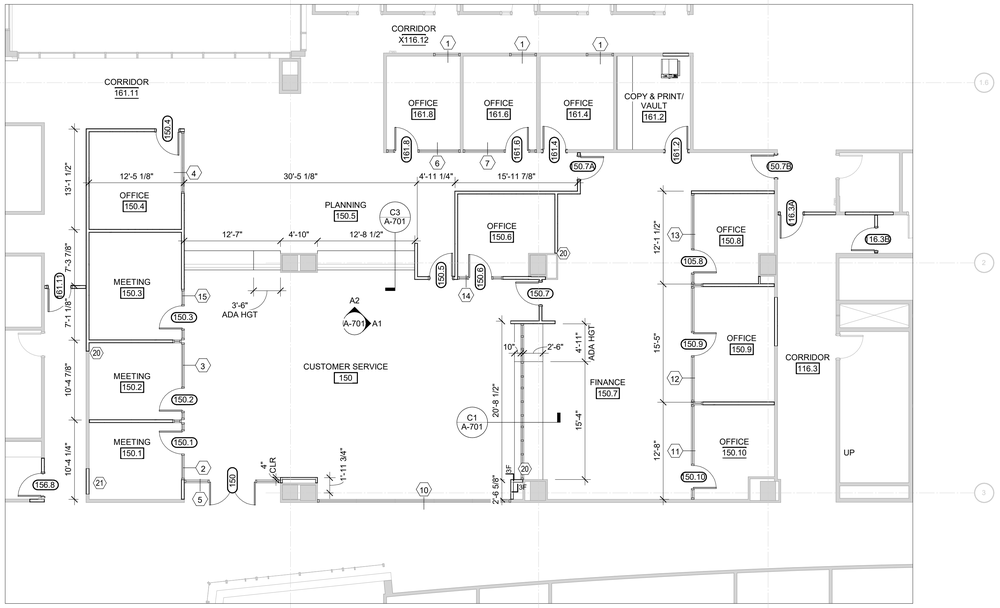
SHEET:
A-301

100% PERMIT SET

10/29/2024 2:31:06 PM

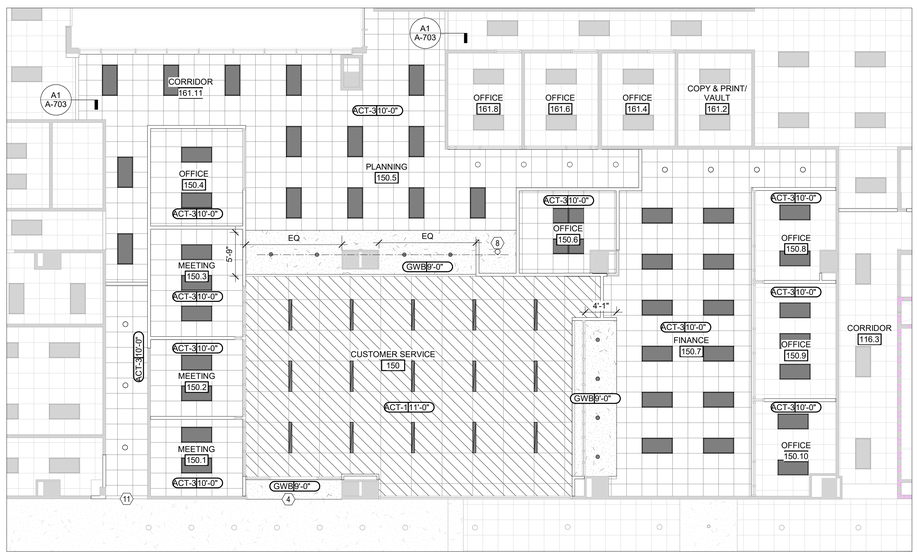
E D C B A

1 2 3 4 5 6



C1 ENL. PLAN CUSTOMER SERVICE 150

1/8" = 1'-0"



A1 ENL. RCP - CUSTOMER SERVICE 150

1/8" = 1'-0"

#	FLOOR PLAN NOTES BY NUMBER
NUMBER	NOTE
1	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
2	TEMPORARY WALL/ DOORS TO BE FINISHES ON CORRIDOR SIDE. ALL FINISHES AND FIXTURES TO REMAIN INSIDE SUITE; PATCH FLOOR AND CEILING AS NEEDED. DEMO LIGHT FIXTURES AS REQ'D. TO ACCOMODATE TEMP WALL.
3	EXISTING DOOR AND FRAME TO BE REMOVED FROM WEST WALL AND RELOCATED TO EAST WALL. PATCH AS NEEDED.
4	PATCH EXISTING WALL FINISH AND BASE TO MATCH EXISTING AT NEW DOOR
5	ALIGN NEW PARTITION W/ MULLION. PROVIDE MULLION MATE PRO REQ'D
6	ALIGN NEW PARTITION W/ EXISTING PARTITION
7	SHD-1 NEW WINDOW SHADES
8	2'-6" OF EXISTING WALL TO REMAIN TO ACCOMODATE NEW CASEWORK
20	ALIGN NEW PARTITION W/ EXISTING PARTITION
21	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
22	EXISTING WINDOW SHADES TO REMAIN. PROVIDE WINDOW/ SHADING WELL TO ACCOMODATE NEW CEILING IF REQ'D.
23	EXISTING RECESSED FLOOR. 4" CONCRETE SLAB WITH #4 REBAR AT 18" SPACING BOTH WAYS. OVER HIGH DENSITY RIGID INSULATION. GC TO VIF.
24	MULLION MATE PLUS AGAINST THE GLASS REQ'D

FLOOR PLAN SHEET NOTES

A. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD FOR NEW PARTITIONS AND FACE OF EXISTING WALLS WHEN DIMENSIONS ARE PULLED FROM EXISTING PARTITION.
B. ALL NON-DESIGNATED PARTITIONS SHALL BE 3A
C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
D. RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE. ALL PENETRATIONS AND TERMINAL JOINTS ARE TO BE INSTALLED AS SHOWN IN APPLICABLE UL JOINT OR PENETRATION DETAIL.
E. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
F. RATED WALLS INTERSECTING EXTERIOR WALLS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING.
G. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM, AND RELATED CONSTRUCTION.
H. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED AND SMOKE WALLS
I. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS (OR PARTITION SCHEDULE)
J. SEE SHEETA-700'SFOR INTERIOR ELEVATIONS, ACCESSORY DESCRIPTIONS & MOUNTING HEIGHTS.
K. FIELD VERIFY LOCATION OF INTERIOR WALL & CEILING CONTROL JOINTS REQUIRED IN THE SPECIFICATION WITH ARCHITECT PRIOR TO INSTALLATION.
L. WALLS, INCLUDING GYP. BD. AT PERIMETER OF ROOMS/SPACES WITHOUT CEILINGS, i.e. EXPOSED STRUCTURE, SHALL EXTEND TO STRUCTURE ABOVE.

FLOOR PLAN LEGEND

BUILDING ELEMENTS

EXISTING PARTIION TO REMAIN

NEW PARTITION

NOT IN SCOPE

REFLECTED CEILING PLAN SHEET NOTES

A. PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
B. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
C. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
D. NEW PARTITIONS TO BE 4" ABOVE FINISHED CEILING U.N.O.
E. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
F. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
G. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
H. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
I. PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
J. HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE "1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
K. TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
L. INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.

#	RCP NOTES BY NUMBER
NUMBER	NOTE
1	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
2	NEW PARTITION TO TERMINATE AT UNDERSIDE OF EXISTING CEILING. PATCH AS NEEDED.
3	NEW PARTITION TO EXTEND 4" ABOVE CEILING. DEMO PORTION OF EXISTING CEILING AT NEW PARTITION. PATCH GRID AND ACT AROUND NEW PARTITION AS NEED.
4	ALIGN NEW GWB CEILING W/ EXISTING
5	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
6	NEW ACT CEILING TO ALIGN W/EXISTING. DEMO PARTIAL TILE AND REPLACE WITH FULL TILE AND NEW GRID. EXTEND NEW CEILING FROM THERE.
7	NEW LIGHTS IN EXISTING ACT CEILING
8	LIGHTS CENTERED IN ALL DIRECTIONS
9	PATCH CEILING W/ MATCHING ACT WHERE WALLS ARE DEMOLISHED
10	RELOCATE EXISTING FIXTURE FROM WEST CORRIDOR
11	GWB TRANSITION REQ'D AT MATERIAL CHANGE

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA

CHARLES H. BONEY JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N. CAROLINA

2024.10.29 16:39:13-04'00'

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street
Wilmington, North Carolina 28401

L33P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
ENL. PLAN - CUSTOMER SERVICE

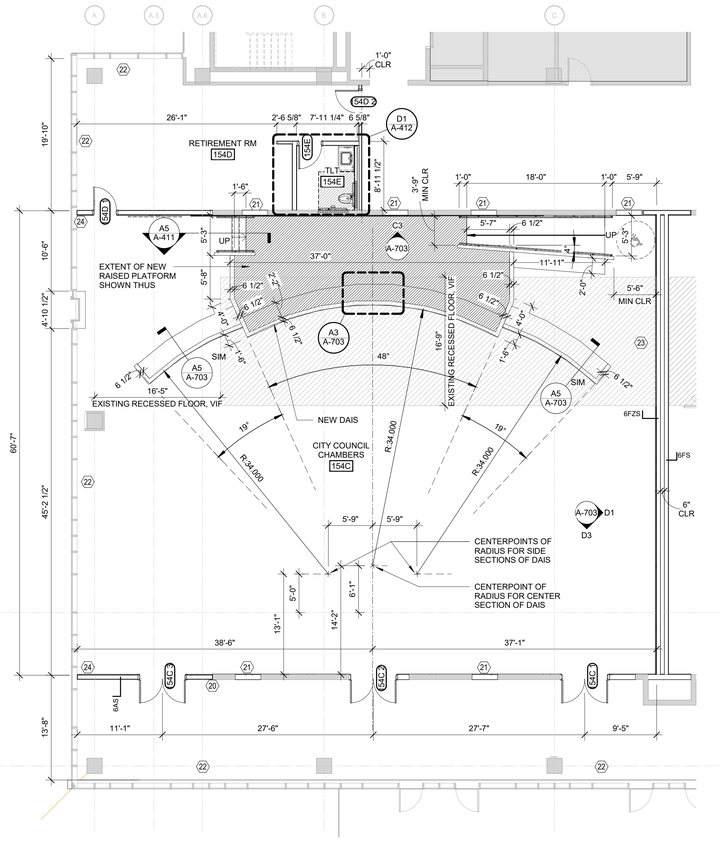
ORIG SUBMISSION: 2024.10.29

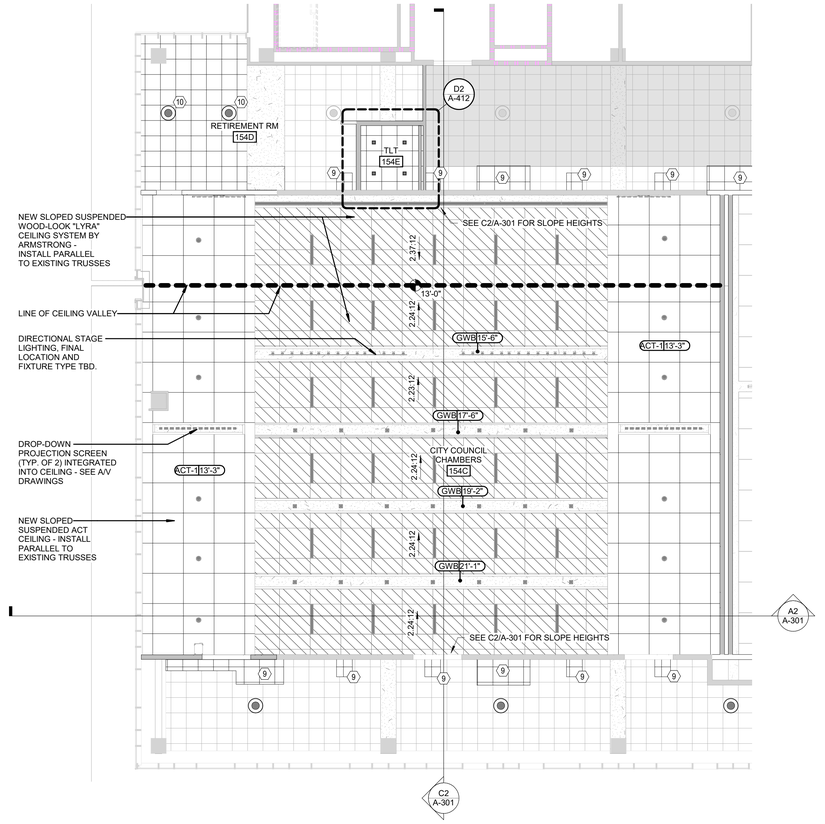
SHEET:
A-410

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PLOT SIZE

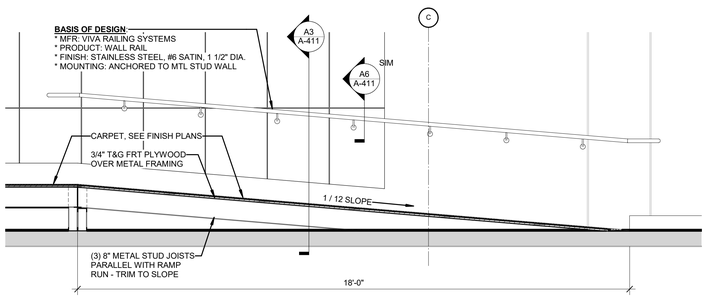
10/29/2024 2:31:07 PM





C1 ENL. PLAN COUNCIL CHAMBERS 154C

1/8" = 1'-0"

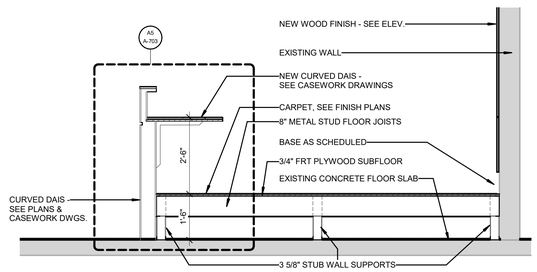


B1 SECTION THRU PLATFORM RAMP - NORTH

1/2" = 1'-0"

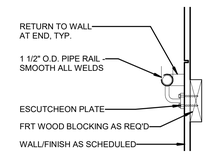
C3 ENL. RCP - CITY COUNCIL 154C

1/8" = 1'-0"



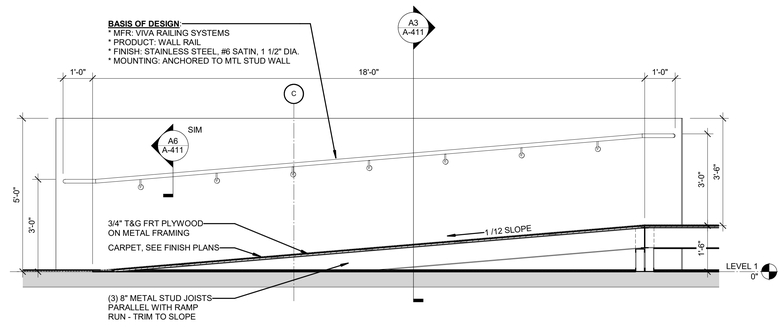
B3 SECTION THRU NEW RAISED PLATFORM

1/2" = 1'-0"



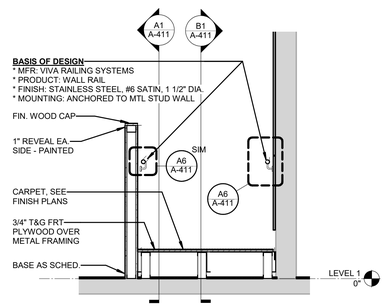
A6 SECTION - HANDRAIL TO GWB

1 1/2" = 1'-0"



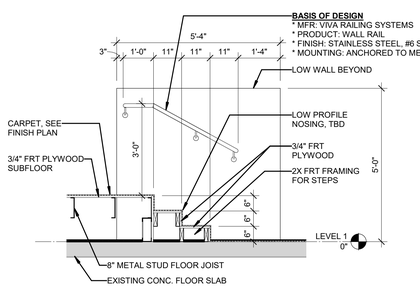
A1 SECTION THRU PLATFORM RAMP - SOUTH

1/2" = 1'-0"



A3 SECTION THRU PLATFORM RAMP

1/2" = 1'-0"



A5 SECTION THRU STEPS AT PLATFORM

1/2" = 1'-0"

FLOOR PLAN NOTES BY NUMBER

NUMBER	NOTE
1	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
2	TEMPORARY WALL/ DOORS TO BE FINISHES ON CORRIDOR SIDE. ALL FINISHES AND FIXTURES TO REMAIN INSIDE SUITE; PATCH FLOOR AND CEILING AS NEEDED. DEMO LIGHT FIXTURES AS REQ'D. TO ACCOMODATE TEMP WALL.
3	EXISTING DOOR AND FRAME TO BE REMOVED FROM WEST WALL AND RELOCATED TO EAST WALL. PATCH AS NEEDED.
4	PATCH EXISTING WALL FINISH AND BASE TO MATCH EXISTING AT NEW DOOR
5	ALIGN NEW PARTITION W/ MULLION. PROVIDE MULLION MATE PRO REQ'D
6	ALIGN NEW PARTITION W/ EXISTING PARTITION
7	SHD-1 NEW WINDOW SHADES
8	2'-6" OF EXISTING WALL TO REMAIN TO ACCOMODATE NEW CASEWORK
20	ALIGN NEW PARTITION W/ EXISTING PARTITION
21	INFILL EXISTING DOOR OPENING W/ NEW PARTITION
22	EXISTING WINDOW SHADES TO REMAIN. PROVIDE WINDOW/ SHADING WELL TO ACCOMODATE NEW CEILING IF REQ'D.
23	EXISTING RECESSED FLOOR. 4" CONCRETE SLAB WITH #4 REBAR AT 18" SPACING BOTH WAYS. OVER HIGH DENSITY RIGID INSULATION. GC TO VIF.
24	MULLION MATE PLUS AGAINST THE GLASS REQ'D

FLOOR PLAN SHEET NOTES

A. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD FOR NEW PARTITIONS AND FACE OF EXISTING WALLS WHEN DIMENSIONS ARE PULLED FROM EXISTING PARTITION.
B. ALL NON-DESIGNATED PARTITIONS SHALL BE 3A
C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
D. RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE. ALL PENETRATIONS AND TERMINAL JOINTS ARE TO BE INSTALLED AS SHOWN IN APPLICABLE UL JOINT OR PENETRATION DETAIL.
E. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
F. RATED WALLS INTERSECTING EXTERIOR WALLS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING.
G. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM, AND RELATED CONSTRUCTION.
H. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED AND SMOKE WALLS
I. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS (OR PARTITION SCHEDULE)
J. SEE SHEETA-700'SFOR INTERIOR ELEVATIONS, ACCESSORY DESCRIPTIONS & MOUNTING HEIGHTS.
K. FIELD VERIFY LOCATION OF INTERIOR WALL & CEILING CONTROL JOINTS REQUIRED IN THE SPECIFICATION WITH ARCHITECT PRIOR TO INSTALLATION.
L. WALLS, INCLUDING GYP. BD. AT PERIMETER OF ROOMS/SPACES WITHOUT CEILINGS, I.e. EXPOSED STRUCTURE, SHALL EXTEND TO STRUCTURE ABOVE.

FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

REFLECTED CEILING PLAN SHEET NOTES

A. PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
B. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
C. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
D. NEW PARTITIONS TO BE 4" ABOVE FINISHED CEILING U.N.O.
E. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
F. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
G. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
H. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
I. PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
J. HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE "1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
K. TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
L. INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.

RCP NOTES BY NUMBER

NUMBER	NOTE
1	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
2	NEW PARTITION TO TERMINATE AT UNDERSIDE OF EXISTING CEILING. PATCH AS NEEDED.
3	NEW PARTITION TO EXTEND 4" ABOVE CEILING. DEMO PORTION OF EXISTING CEILING AT NEW PARTITION. PATCH GRID AND ACT AROUND NEW PARTITION AS NEED.
4	ALIGN NEW GWB CEILING W/ EXISTING
5	PATCH EXISTING CEILING AS NEEDED TO ACCOMODATE NEW DOOR/WALL
6	NEW ACT CEILING TO ALIGN W/EXISTING. DEMO PARTIAL TILE AND REPLACE WITH FULL TILE AND NEW GRID. EXTEND NEW CEILING FROM THERE.
7	NEW LIGHTS IN EXISTING ACT CEILING
8	LIGHTS CENTERED IN ALL DIRECTIONS
9	PATCH CEILING W/ MATCHING ACT WHERE WALLS ARE DEMOLISHED
10	RELOCATE EXISTING FIXTURE FROM WEST CORRIDOR
11	GWB TRANSITION REQ'D AT MATERIAL CHANGE

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF
WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
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WWW.LS3P.COM

LS3P ASSOCIATES LTD.
REGISTERED ARCHITECTURAL COMPANY
CERT. NO. 50417
NORTH CAROLINA
WILMINGTON, NORTH CAROLINA

CHARLES H. BONEY, JR.
REGISTERED ARCHITECT
4276
NORTH CAROLINA
WILMINGTON, N. CAROLINA

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
ENL. PLAN, RCP & INT. DETAILS - CITY COUNCIL

ORIG SUBMISSION: 2024.10.29

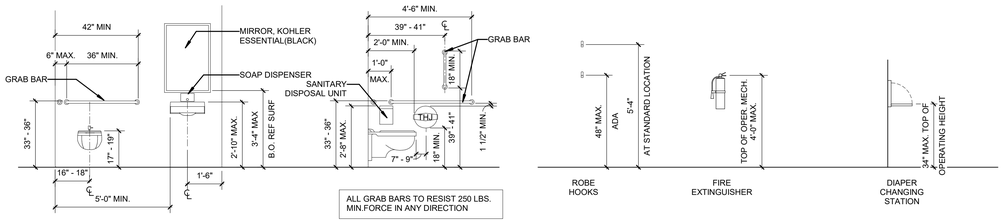
SHEET:
A-411

100% PERMIT SET

10/29/2024 2:31:10 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PLOT SIZE

TYPICAL MOUNTING HEIGHTS - RESTROOMS



FLOOR PLAN SHEET NOTES

A. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD FOR NEW PARTITIONS AND FACE OF EXISTING WALLS WHEN DIMENSIONS ARE PULLED FROM EXISTING PARTITION.
B. ALL NON-DESIGNATED PARTITIONS SHALL BE 3A.
C. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL, U.N.O.
D. RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE. ALL PENETRATIONS AND TERMINAL JOINTS ARE TO BE INSTALLED AS SHOWN IN APPLICABLE UL JOINT OR PENETRATION DETAIL.
E. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
F. RATED WALLS INTERSECTING EXTERIOR WALLS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING.
G. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM, AND RELATED CONSTRUCTION.
H. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED AND SMOKE WALLS
I. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS (OR PARTITION SCHEDULE)
J. SEE SHEET A-700'S FOR INTERIOR ELEVATIONS, ACCESSORY DESCRIPTIONS & MOUNTING HEIGHTS.
K. FIELD VERIFY LOCATION OF INTERIOR WALL & CEILING CONTROL JOINTS REQUIRED IN THE SPECIFICATION WITH ARCHITECT PRIOR TO INSTALLATION. WALLS, INCLUDING GYP. BD. AT PERIMETER OF ROOMS/SPACES WITHOUT CEILINGS, i.e. EXPOSED STRUCTURE, SHALL EXTEND TO STRUCTURE ABOVE.

FLOOR PLAN LEGEND

BUILDING ELEMENTS

- EXISTING PARTIION TO REMAIN
- NEW PARTITION
- NOT IN SCOPE

REFLECTED CEILING PLAN SHEET NOTES

A. PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
B. INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
C. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
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H. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
I. PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
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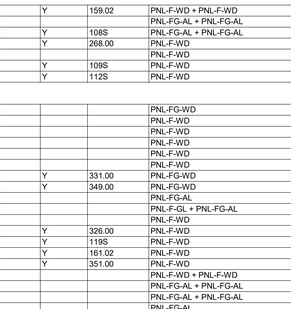
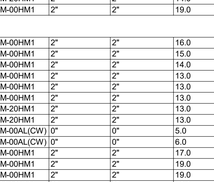
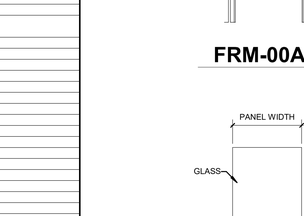
L. INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.



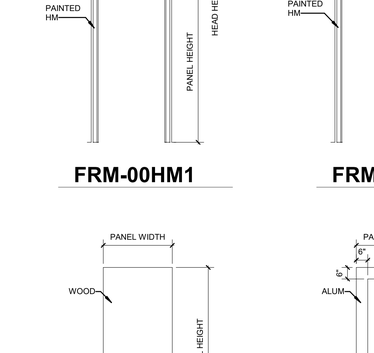
D1 ENL. PLAN - TLT 154E
1/4" = 1'-0"



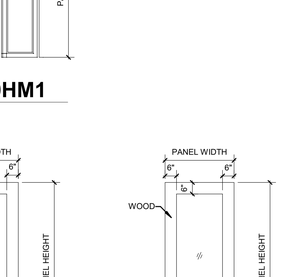
D2 ENL. RCP - TLT 154E
1/4" = 1'-0"



D3 INT ELEV - TLT 154E EAST
1/4" = 1'-0"



D4 ENL. PLAN - TLT 127.5
1/4" = 1'-0"

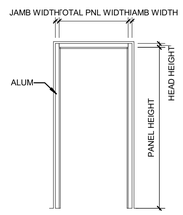


D5 ENL. RCP- TLT 127.5
1/4" = 1'-0"

D6 INT. ELEV - 127.5
1/4" = 1'-0"

ARCH- DOOR SCHEDULE- CORE AND SHELL

DOOR NUMBER	FIRE RATING (MIN)	USE EXISTING DOORS	DOOR NUMBER	DOOR PANELS PANEL TYPE(S)	HEIGHT	DOOR FRAME TYPE	FACE DIMENSIONS JAMB WIDTH	FACE DIMENSIONS HEAD HEIGHT	AAOS Project HW Set	COMMENTS
LEVEL 1										
105.8				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	2.0	
116.3A		Y	113S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	10.0	ACCESS CONTROL REQ'D
116.3B		Y	121.00	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	10.0	ACCESS CONTROL REQ'D
128		Y	S&C DR	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	22.0	
128.1		Y	106S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	12.0	
148.6A				PNL-F-GL + PNL-F-GL	8'-0"	FRM-00AL1	2"	2"	6.0	ACCESS CONTROL REQ'D
148.6B				PNL-F-GL + PNL-F-GL	8'-0"	FRM-00AL1	2"	2"	6.0	ACCESS CONTROL REQ'D
150				PNL-F-GL + PNL-FG-AL	8'-0"	FRM-00AL(CW)	0"	0"	6.0	ACCESS CONTROL REQ'D
150.1				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	4.0	
150.2				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	4.0	
150.3				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	4.0	
150.4		Y	161.08	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	13.0	
150.5				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
150.6				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	2.0	
150.7				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	10.0	ACCESS CONTROL REQ'D
150.7A		Y	101S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
150.7B		Y	103S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
150.9				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	3.0	
150.10				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	2.0	
153				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
154C 1				PNL-F-WD + PNL-F-WD	8'-0"	FRM-00HM1	2"	2"	7.0	
154C 2				PNL-F-WD + PNL-F-WD	8'-0"	FRM-00HM1	2"	2"	7.0	
154C 3				PNL-F-WD + PNL-F-WD	8'-0"	FRM-00HM1	2"	2"	7.0	
154D 1				PNL-F-WD	8'-0"	FRM-00HM1	2"	2"	9.0	ACCESS CONTROL REQ'D
154D 2				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
154E		Y	107S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	12.0	
155.10		Y	102S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
156.8		Y	104S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
161.2		Y	105S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	8.0	ACCESS CONTROL REQ'D
161.4		Y	161.04	PNL-FG-WD	7'-0"	FRM-00HM1	2"	2"	13.0	
161.6				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	2.0	
161.8				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	2.0	
161.11		Y	114S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	10.0	ACCESS CONTROL REQ'D
LEVEL 2										
248		Y	159.02	PNL-F-WD + PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	11.0	ACCESS CONTROL REQ'D
248.6A				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
248.6B		Y	108S	PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
264A		Y	268.00	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
264B				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
268		Y	109S	PNL-F-WD	7'-0"	FRM-20HM1	2"	2"	14.0	
268.5		Y	112S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
LEVEL 3										
313				PNL-FG-WD	7'-0"	FRM-00HM1	2"	2"	16.0	ACCESS CONTROL REQ'D
313A				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	15.0	
313B				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	14.0	
313C				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	13.0	
313D				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	13.0	
313E				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	13.0	
323.2		Y	331.00	PNL-FG-WD	7'-0"	FRM-20HM1	2"	2"	13.0	
323.3		Y	349.00	PNL-FG-WD	7'-0"	FRM-20HM1	2"	2"	13.0	
323.4				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	5.0	
323.5				PNL-F-GL + PNL-FG-AL	8'-0"	FRM-00AL(CW)	0"	0"	6.0	ACCESS CONTROL REQ'D
323A				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	17.0	ACCESS CONTROL REQ'D
327		Y	326.00	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
330.2		Y	119S	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	19.0	
330.3		Y	161.02	PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	10.0	ACCESS CONTROL REQ'D
335		Y	351.00	PNL-F-WD	7'-0"	FRM-20HM1	2"	2"	13.0	
336				PNL-F-WD + PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	18.0	
348.6A				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
348.6B				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
348.6I				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	4.0	
362				PNL-FG-AL	7'-0"	FRM-00AL(CW)	0"	0"	4.0	
LEVEL 10										
1001A				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
1001B				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
LEVEL 11										
1101				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
LEVEL 12										
1201				PNL-FG-AL + PNL-FG-AL	7'-0"	FRM-00AL1	2"	2"	1.0	ACCESS CONTROL REQ'D
1229				PNL-F-WD	7'-0"	FRM-20HM1	2"	2"	13.0	
1245				PNL-F-WD	7'-0"	FRM-00HM1	2"	2"	20.0	



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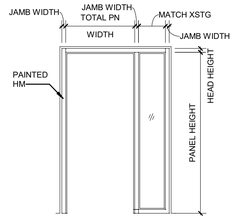
FRM-00HM1



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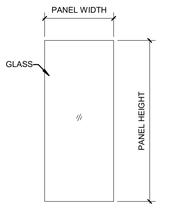
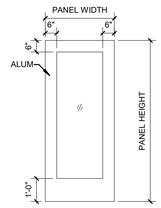


PNL-F-GL

PNL-F-WD



PNL-FG-AL

PNL-FG-WD

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA

CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N. CAROLINA

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CITY OF WILMINGTON SKYLINE CENTER

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
ENL. PLAN, DOOR SCHEDULE

ORIG SUBMISSION: 2024.10.29

SHEET:
A-412

100% PERMIT SET

10/29/2024 2:31:11 PM

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

INTERIOR FINISH LEGEND

TAG	MANUFACTURER	STYLE/ PATTERN	PRODUCT COLOR	PRODUCT FINISH	PRODUCT SIZE	INSTALLATION	ADDITIONAL NOTES	CONTACT
06-WOOD AND PLASTICS								
PLM-1	WILSONART	NEOWALNUT	7991-38	-	-	-	-	APRIL BRICKLE, BRICKLA@WILSONART.COM; PH:540.537.3431
PLM-2	FORMICA	9512-34	LAYERED WHITE SAND	-	-	-	-	SHERI REID, SHERI.REID@FORMICA.COM; PH:704.534.7300
QSS-1	HANSTONE	QUARTZ	RIVIERE	-	-	-	-	SOPHIA SOLIS, SSOLIS@WEB-DON.COM; PH:919.612.0861
WDV-1	DOOGE VENEERS	QTD RECON WALNUT	CUSTOM STAINED TO MATCH ARMSTRONG WOODWORKS VENEER, COLOR CONSTANTS WALNUT (CWA)	-	-	-		GARY PARKER, GPARKER@DOOGEVENEER.COM; PH:616.871.3343
09-FINISHES-CEILINGS								
ACT-1	ARMSTRONG CEILINGS	LYRA VECTOR WZ00001VFT	VANILLA ASH (WVA)	9/16 SUPRAFINE GRID XL, COLOR TBD	48"X48", EDGE: VECTOR 15/16	EDGE - W/ PRELUDE XL 15/16 EXPOSED TEE, COLOR: HAY	-	MARY R HADDAD MRHADDAD@ARMSTRONGCEILINGS.COM; PH: 919.249.1468
ACT-2	ARMSTRONG CEILINGS	LYRA VECTOR WZ00001VH1	VANILLA ASH (WVA)	9/16 SUPRAFINE GRID XL, COLOR TBD	24"X48", EDGE: VECTOR 15/16	EDGE - W/ PRELUDE XL 15/16 EXPOSED TEE, COLOR: HAY	-	MARY R HADDAD MRHADDAD@ARMSTRONGCEILINGS.COM; PH: 919.249.1468
ACT-3	USG	MILLENNIA CLIMA PLUS	STANDARD WHITE	-	24"X24"	-	MATCHES EXISTING	ADAM DAVIS ADADAVIS@USG.COM; PH: 919.454.0230
ACT-4	USG	HALYCON CLIMA PLUS	STANDARD WHITE	-	48"X48"	-	MATCHES EXISTING	ADAM DAVIS ADADAVIS@USG.COM; PH: 919.454.0230
09-FINISHES-FLOORS								
CPT-1	INTERFACE	HUMAN NATURE HN810	104214 NICKEL	-	25CM X 1M	ASHLAR	-	KAY JACKSON, KAY.JACKSON@INTERFACE.COM; PH: 919.518.4267
CPT-2	INTERFACE	HUMAN NATURE HN850	104206 NICKEL	-	25CM X 1M	ASHLAR	-	KAY JACKSON, KAY.JACKSON@INTERFACE.COM; PH: 919.518.4267
CPT-3	INTERFACE	HUMAN NATURE HN840	104222 NICKEL	-	25CM X 1M	ASHLAR	-	KAY JACKSON, KAY.JACKSON@INTERFACE.COM; PH: 919.518.4267
CPT-4	INTERFACE	HUMAN NATURE HN820	104230 NICKEL	-	25CM X 1M	ASHLAR	-	KAY JACKSON, KAY.JACKSON@INTERFACE.COM; PH: 919.518.4267
CPT-5	INTERFACE	STEP REPEAT SR899	104938 SMOKE	-	50CM X 50 CM	MONOLITHIC	-	KAY JACKSON, KAY.JACKSON@INTERFACE.COM; PH: 919.518.4267
PTF-1	ATLAS CONCORDE	BOOST MIX	PEARL	-	12" X 24"	STACKED	-	ANN HARTLEY, AHARTLEY@MOSAICTILECO.COM; PH: 919.602.6125
09-FINISHES-WALL BASES								
PTB-1	ATLAS CONCORDE	BOOST MIX	PEARL		6" x 24"		-	ANN HARTLEY, AHARTLEY@MOSAICTILECO.COM; PH: 919.602.6125
RBS-1	TARKETT JOHNSONITE	4" TRADITIONAL RUBBER BASE	TBD	-	-	-	-	-
WDB-1		MATCH EXISTING	STAINED TO MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	-	-	-
WDB-2		MATCH EXISTING	STAINED TO MATCH DIAS VENEER	MATCH EXISTING	MATCH EXISTING	-	-	-
09-FINISHES-WALLS								
PNT-1	SHERWIN WILLIAMS	SW 7634	PEDIMENT	EGGSHELL	-	FIELD COLOR, ROOMS IN SCOPE	-	-
PNT-2	SHERWIN WILLIAMS	SW 7624	SLATE TILE	EGGSHELL	-	CUSTOMER SERVICE ACCENT	-	-
PNT-3	MATCH EXISTING - GYP CLGS			-	-	GYP CEILINGS	-	-
PNT-4	MATCH EXISTING - WALLS			-	-	EXISTING WALLS WHERE PATCHING REQ'D	-	-
PNT-5	TBD			-	-	-	-	-
PNT-6	TBD			-	-	-	-	-
PTW-1	ATLAS CONCORDE	BOOST MIX	PEARL		12" X 24"	STACKED		ANN HARTLEY, AHARTLEY@MOSAICTILECO.COM; PH: 919.602.6125
WCV-1	KOROSEAL	BELGIAN QUARTZ	67680			TLT ROOMS		
WCV-2	MOMENTUM	WISTERIA LSL-WS-01	SNOWDROP			SOUTH WALL OF COUNCIL CHAMBERS		
WWP-1	ARMSTRONG CEILINGS AND WALLS	WOODWORKS CUSTOM CEILINGS AND WALLS	CUSTOM MATCH TO LYRA VANILLA ASH	-	2'X10', 2'X4'	-		MARY R HADDAD MRHADDAD@ARMSTRONGCEILINGS.COM; PH: 919.249.1468
12-FURNISHINGS								
SHD-1	ROLLER SHADE TO MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	-	-	MOTORIZED	-	-
SHD-2	ROLLER SHADE TO MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	-	-	MANUAL	-	-

INTERIOR ROOM FINISH SCHEDULE

LEVEL	NUMBER	NAME	FLOORING	BASE	WALLS				CEILING	NOTES
					NORTH	EAST	SOUTH	WEST		
LEVEL 1										
LEVEL 1	116.3	CORRIDOR	CPT-2	WDB-1	MATCH/ PATCH EXISTING	MATCH/ PATCH EXISTING	MATCH/ PATCH EXISTING	MATCH/ PATCH EXISTING	EXISTING TO REMAIN	
LEVEL 1	116.7	CORRIDOR	CPT-2	WDB-1	PNT-2	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 1	128.1	TLT	PTF-1	PTB-1	PNT-1	PNT-1	PTW-1/ PNT-1	PNT-1	GWB/ PNT-3	
LEVEL 1	148.3	STO	CPT-3	RBS-1	PNT-1	PNT-1	PNT-1	PBT-1	EXISTING TO REMAIN	
LEVEL 1	150	CUSTOMER SERVICE	CPT-1, CPT-2, CPT-3	WDB-1	PNT-2	PNT-1/PNT-2	PNT-1	PNT-1	ACT-1	
LEVEL 1	150.1	MEETING	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.2	MEETING	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.3	MEETING	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.4	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.5	PLANNING	CPT-2	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3/ PNT GWB	
LEVEL 1	150.6	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.7	FINANCE	CPT-2	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3/ PNT GWB	
LEVEL 1	150.8	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.9	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	150.10	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	151	Room								
LEVEL 1	153	STO	CPT-5	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN	
LEVEL 1	154A	CONFERENCE	CPT-1, CPT-2, CPT-3	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING/ ACT-4 AS NEEDED	PATCH EXISTING FINISHES AS NEEDED
LEVEL 1	154B	CONFERENCE	CPT-1, CPT-2, CPT-3	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING/ ACT-4 AS NEEDED	PATCH EXISTING FINISHES AS NEEDED
LEVEL 1	154C	CITY COUNCIL CHAMBERS	CPT-1, CPT-2, CPT-3	WDB-1	PNT-1	PNT-1	WCV-2	PNT-1	ACT-1, ACT-2, ACT-4	
LEVEL 1	154D	RETIREMENT RM	CPT-2	WDB-1	PNT-1	PNT-1	WCV-2	PNT-1	EXISTING/ ACT-3 AS NEEDED	PATCH EXISTING FINISHES AS NEEDED
LEVEL 1	154E	TLT	PTF-1	PTB-1	PTW-1/ WCV-1	PTW-1/ WCV-1	PTW-1/ WCV-1	PTW-1/ WCV-1	ACT-3	
LEVEL 1	154G	CONFERENCE	CPT-1, CPT-2, CPT-3	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING/ ACT-4 AS NEEDED	PATCH EXISTING FINISHES AS NEEDED
LEVEL 1	154H	CONFERENCE	CPT-1, CPT-2, CPT-3	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING/ ACT-4 AS NEEDED	PATCH EXISTING FINISHES AS NEEDED
LEVEL 1	155.10	FILE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN	XSTG
LEVEL 1	156.8	AV/ IT/ G TV	CPT-2	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN	PATCH FINISHES AS NEEDED
LEVEL 1	161.2	COPY & PRINT/ VAULT	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	161.4	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	161.6	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	161.8	OFFICE	CPT-1	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 1	161.11	CORRIDOR	CPT-2	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	XSTG
LEVEL 1	170	CORRIDOR	EXISTING, PROVIDE TRANSITION BETWEEN EXISTING AND NEW CPT	EXISTING, PATCH AS NEEDED	EXISTING/ PATCH AS NEEDED	EXISTING/ PATCH AS NEEDED	EXISTING/ PATCH AS NEEDED	EXISTING/ PATCH AS NEEDED	EXISTING/ PATCH AS NEEDED	
LEVEL 1	173.1	STO.	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	XSTG
LEVEL 2										
LEVEL 2	212.5	CORRIDOR	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 2	212.7	CORRIDOR	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 2	264A	CITY RESERVED SPACE	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 2	264B	HR FILE STO	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 2	268	OFFICE	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 2	268.5	STO	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3										
LEVEL 3	312.1	CORRIDOR	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	312.3	CORRIDOR	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	312.6	CORRIDOR	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313	CLERK'S SUITE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313A	CONFERENCE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313B	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313C	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313D	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313E	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	313F	WORK RM	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	316	WORK RM	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	MATCH ADJACENT WALLS	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	323	STING CENTER - ENTRY	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	323.1	STING CENTER	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	323.2	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	323.3	OFFICE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	323.4	SM CONF	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	323.5	CITY FUTURE GROWTH	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	326	OFFICE	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	MATCH ADJACENT WALLS	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	327	CITY FUTURE GROWTH	CPT-1	RBS-1	MATCH ADJACENT WALLS	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	330	OPEN OFFICE	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	330.1	DROP OFF	CPT-4	RBS-1	--	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	330.2	EVIDENCE	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	330.3	TECH LAB	CPT-4	RBS-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-3	
LEVEL 3	334	FILE RM	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	336	FIRE MARSHALL	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	362	OPEN OFFICE	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	
LEVEL 3	363	CITY FUTURE GROWTH	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	EXISTING TO REMAIN, PATCH AS NEEDED	

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CITY OF WILMINGTON
NORTH CAROLINA

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101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

L33P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
INTERIOR FINISH LEGEND AND SCHEDULE

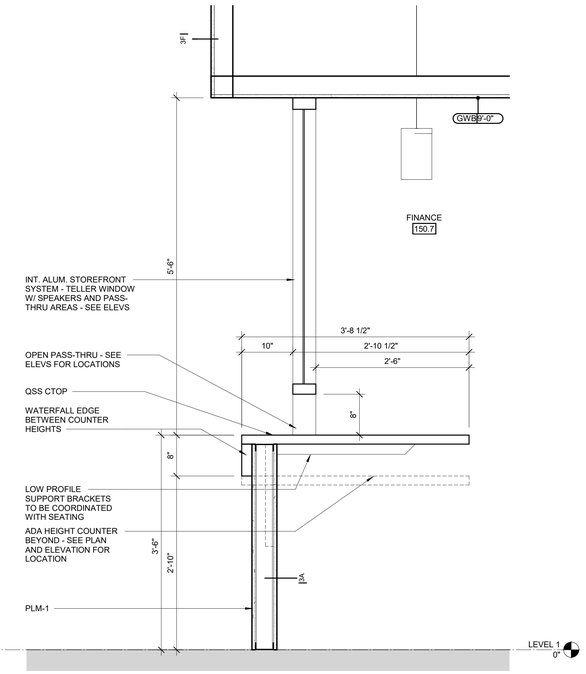
ORIG SUBMISSION: 2024.10.29

SHEET:
A-700

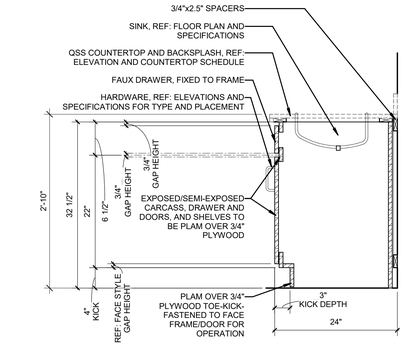
100% PERMIT SET

1 2 3 4 5 6

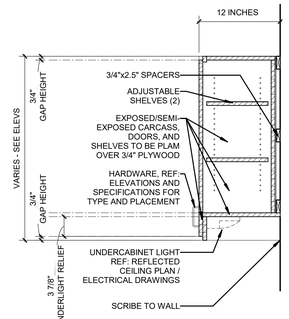
A B C D E



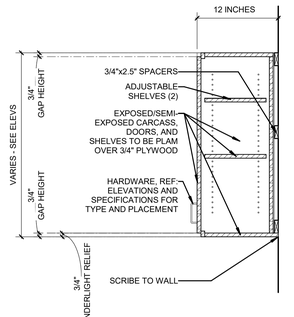
C1 **SECTION THRU TRANSACTION COUNTER**
1" = 1'-0"



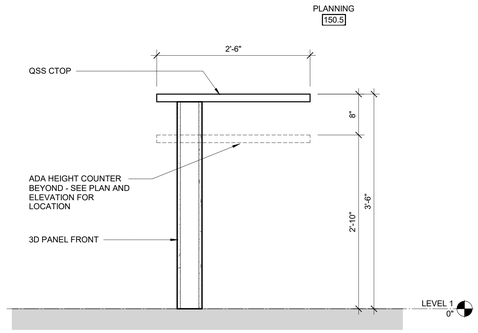
D3 **BM-3 BASE CABINET, ADA SINK**
1" = 1'-0"



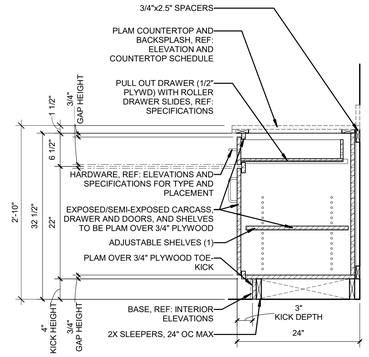
D5 **UM-2 UPPER CABINET W/ LIGHTING**
1" = 1'-0"



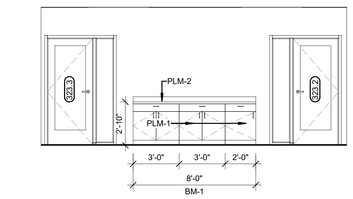
D6 **UM-1 UPPER CABINET**
1" = 1'-0"



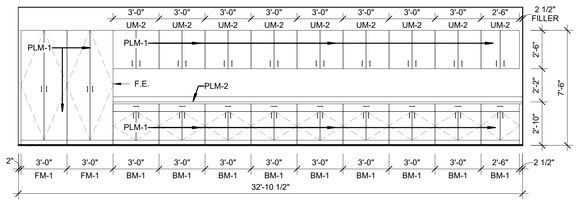
C3 **SECTION THRU PLANNING COUNTER**
1" = 1'-0"



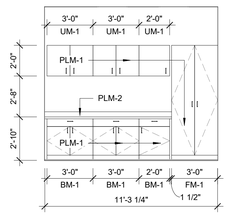
C5 **BM-1 BASE CABINET**
1" = 1'-0"



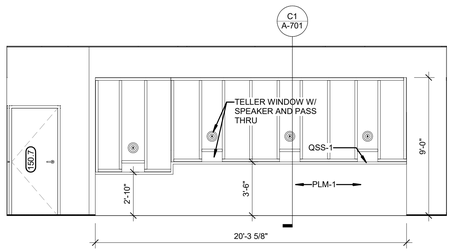
B1 **INT ELEV- STING CENTER 323.1 NORTH**
1/4" = 1'-0"



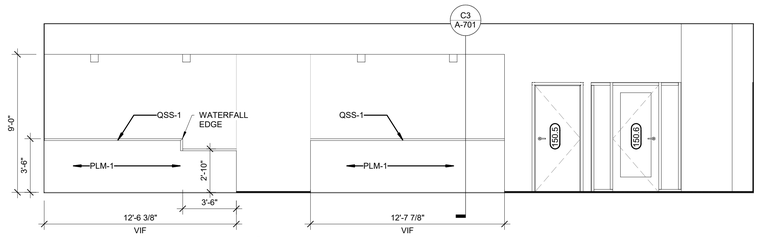
B2 **INT ELEV- STING CENTER 323.1 EAST**
1/4" = 1'-0"



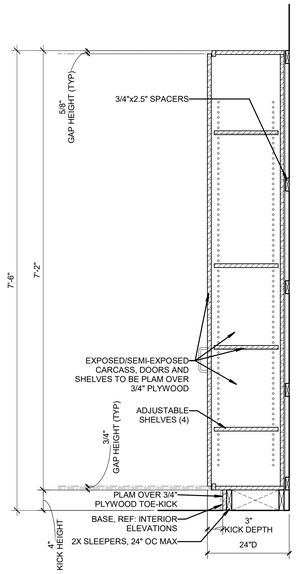
B4 **INT ELEV- COPY 336 EAST**
1/4" = 1'-0"



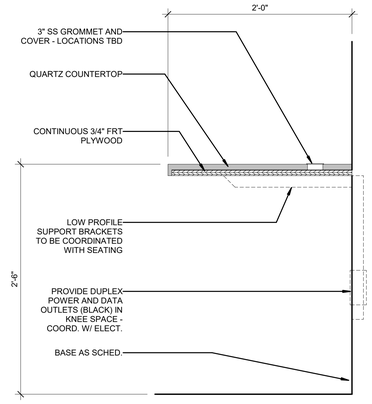
A1 **INT ELEV - FINANCE COUNTER 150.7 E**
1/4" = 1'-0"



A2 **INT ELEV- PLANNING 150.5 N**
1/4" = 1'-0"



A5 **FM-1 FULL HEIGHT CABINET**
1" = 1'-0"



A6 **TYP. DESK - CITY COUNCIL**
1 1/2" = 1'-0"

CITY OF WILMINGTON

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 WILMINGTON, NORTH CAROLINA NORTH CAROLINA

CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N.C.

2024.10.29 16:37:02-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
INTERIOR ELEVATIONS AND CASEWORK DETAILS

ORIG SUBMISSION: 2024.10.29

SHEET:
A-701

100% PERMIT SET

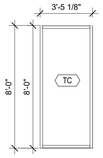
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE

10/28/2024 2:31:13 PM

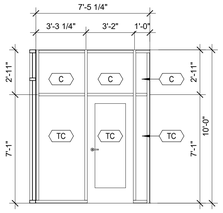
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL ORIGINAL PLOT SHEETS

GLAZING TYPES LEGEND

Number	Comment
C	CLEAR GLAZING
TC	TEMPERED CLEAR GLAZING



SF 01
1/4" = 1'-0"



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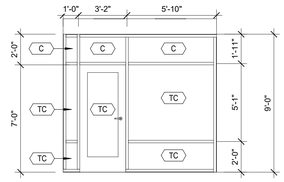

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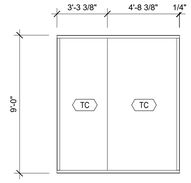

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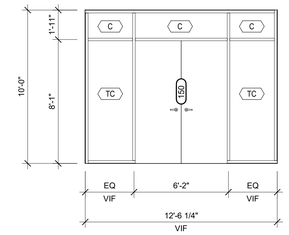

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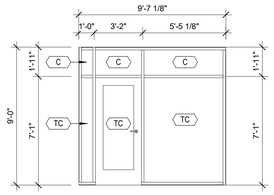

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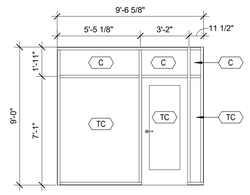

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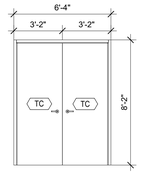

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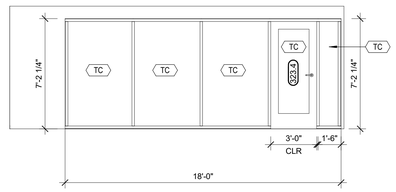

SF 09
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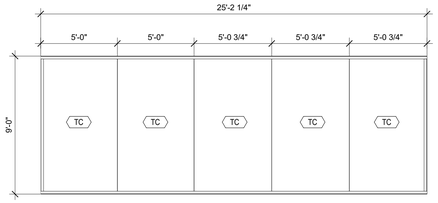

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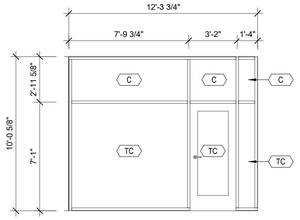

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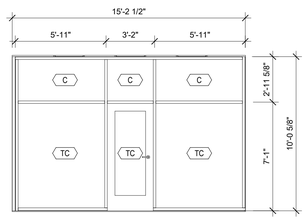

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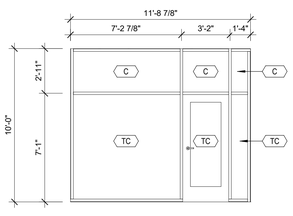

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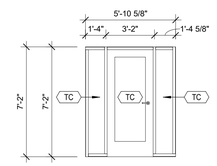

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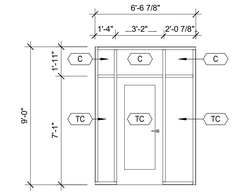

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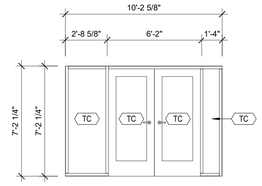

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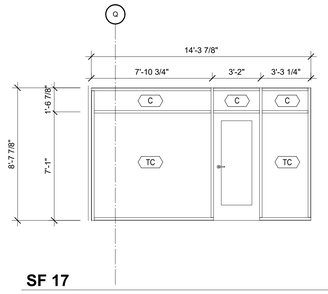

SF 17
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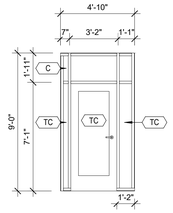

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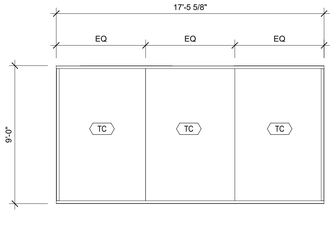

SF 19
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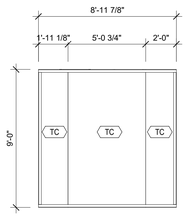

SF 20
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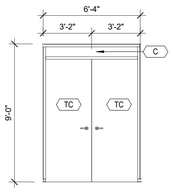

SF 21
1/4" = 1'-0"

10/29/2024 2:31:14 PM

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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WILMINGTON, NORTH CAROLINA 28401
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CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N.C.

2024.10.29 16:38:22-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

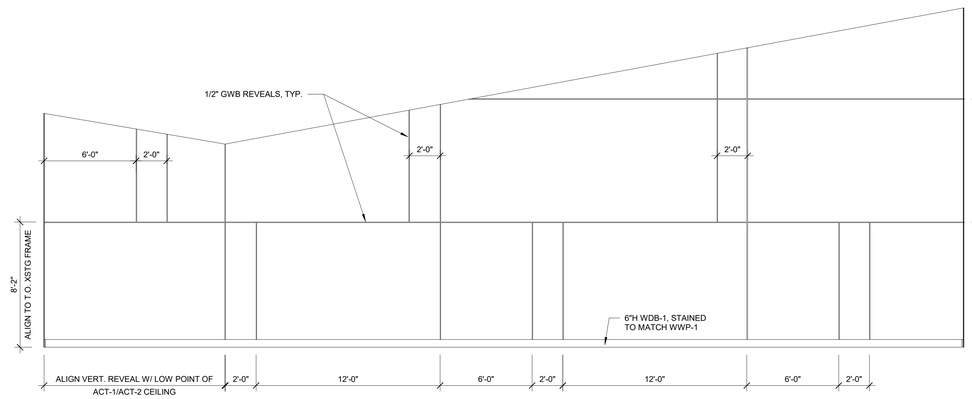
Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
INTERIOR ELEVATIONS - STOREFRONT

ORIG SUBMISSION: 2024.10.29

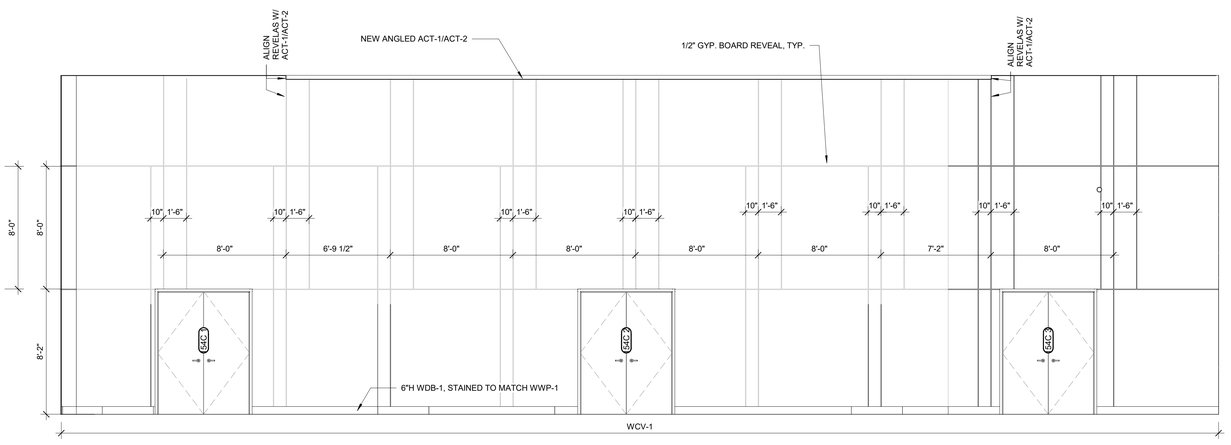
SHEET:
A-702

100% PERMIT SET



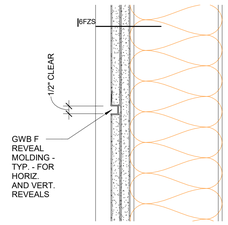
D1 INT. ELEV. CITY COUNCIL 154C EAST

1/4" = 1'-0"



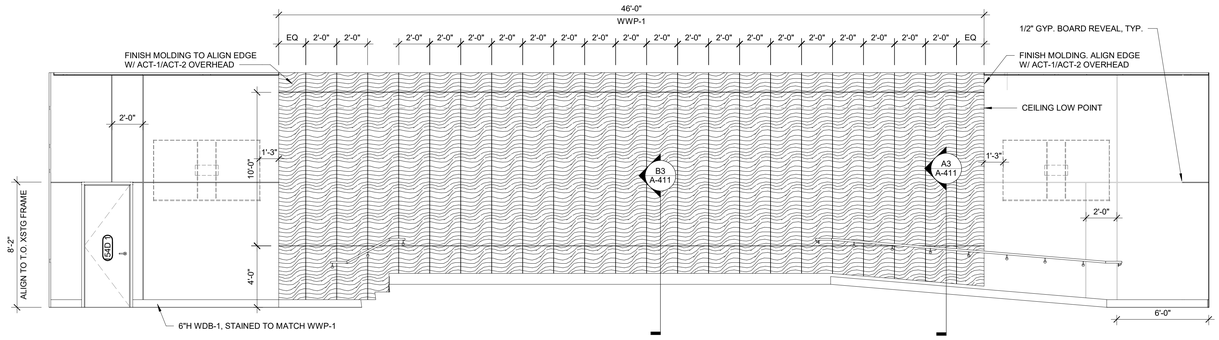
D3 INT. ELEV. CITY COUNCIL 154C SOUTH

1/4" = 1'-0"



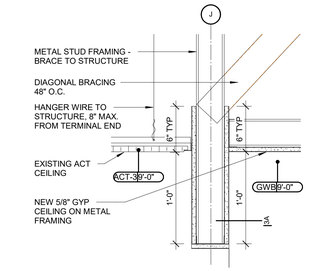
C1 TYP. GYP REVEAL DETAIL

3" = 1'-0"



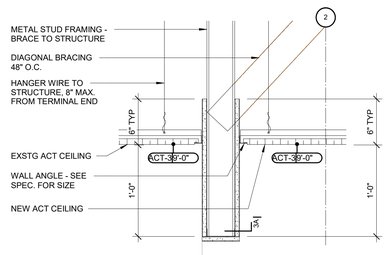
C3 INT. ELEV. CITY COUNCIL 154C NORTH

1/4" = 1'-0"



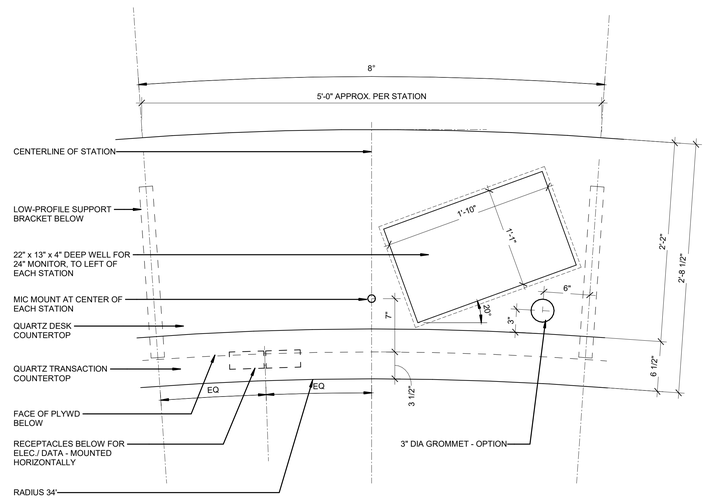
B1 BULKHEAD - EXSTG ACT TO NEW GYP

1 1/2" = 1'-0"



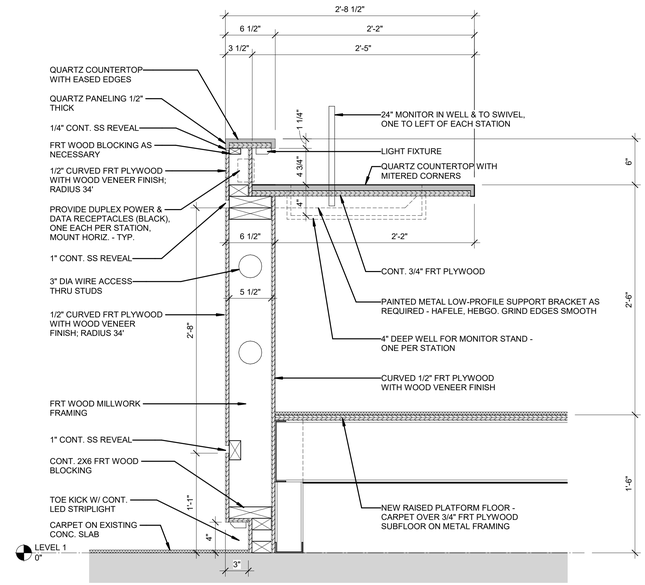
A1 BULKHEAD - EXSTG ACT TO NEW ACT

1 1/2" = 1'-0"



A3 ENLARGED PARTIAL PLAN - DAIS

1 1/2" = 1'-0"



A5 SECTION THRU DAIS

1 1/2" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

10/29/2024 2:31:15 PM

CITY OF WILMINGTON

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101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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CHARLES H. BONEY, JR. REGISTERED ARCHITECT 4276 NORTH CAROLINA WILMINGTON, N. CAROLINA

2024.10.29 16:36:27-04'00'

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION
A	2024.10.29	PERMIT SET

SHEET NAME:
DAIS DETAILS, COUNCIL WALL ELEVS, CLG DETAILS

ORIG SUBMISSION: 2024.10.29

SHEET:
A-703

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SIZE



C1 FINISH PLAN - LEVEL 3

3/32" = 1'-0"



THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PLOTTED AT FULL SCALE ON ORIGINAL PAPER SIZE

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	CEILING FAN, SEE LIGHTING FIXTURE SCHEDULE FOR TYPE
	2x4 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED
	2x2 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED
	4FT OR 8FT LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED
	4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED
	UNDER COUNTER LIGHT FIXTURE
	DIRECT/INDIRECT FIXTURE, SUSPENDED
	TRACK WITH LIGHT KIT
	RECESSED LIGHT FIXTURE
	SURFACE LIGHT FIXTURE
	RECESSED WALL WASH LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	EXIT SIGN, SINGLE FACE, CEILING, CHEVRON INDICATES DIRECTION.
	EXIT SIGN, DOUBLE FACE, CEILING MOUNTED, CHEVRON INDICATES DIRECTION.
	EXIT SIGN W/EMERGENCY LIGHTING UNIT, CEILING MOUNTED, CHEVRON INDICATES DIRECTION.
	EXIT SIGN, SINGLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.
	EXIT SIGN, DOUBLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.
	EXIT SIGN W/EMERGENCY LIGHTING UNIT, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.
	EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, WALL MOUNTED, "NOT SWITCHED"
	EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, CEILING MOUNTED, "NOT SWITCHED"
	**FOR ALL LIGHTING FIXTURE TYPES ABOVE: LETTER ADJACENT TO FIXTURE INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE
	POWER & SWITCH LEG
	UNSWITCHED LEG
	CONDUIT, HOME RUN TO PANEL BOARD
PC	PHOTOCELL, REMOTE MOUNTED, 120V, 10 SECOND TIME DELAY. UL WET LOCATION, RATED FOR 1500 W @ 120 VAC AND 4000 W @ 277 VAC (FOR USE WITH LAMP SOURCE(S) SHOWN.
$	SWITCH, SINGLE POLE, 120/277VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED, SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED.
$3	3-WAY SWITCH, 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED.
$4	4-WAY SWITCH 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED.
$$	INDICATES BI-LEVEL SWITCHING, 1 SWITCH SWITCHES OUTSIDE LAMPS, 1 SWITCH SWITCHES INSIDE LAMPS. SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED.
$WP	WEATHERPROOF SWITCH, SINGLE POLE 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
D$	DIMMER SWITCH, 0-10V OR LINE VOLTAGE RATING AS REQUIRED BY LIGHTING FIXTURE(S). LINE VOLTAGE RATED DIMMERS MUST BE 1500W FOR 120 VAC AND 4000W 277VAC MINIMUM.
AFC$	ADJUSTABLE FAN CONTROL, 120/277VAC, SINGLE POLE, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED, SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED

SYMBOL	DESCRIPTION
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, LONG RANGE COVERAGE 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 180° COVERAGE 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SINGLE BUTTON ON/OFF CONTROL, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-1, LONG RANGE SENSOR. INSTALL WHERE FREE OF OBSTRUCTIONS.
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, PIR TECHNOLOGY OCCUPANCY SENSOR, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-3, TWO SIDED AISLEWAY. INSTALL WHERE FREE OF OBSTRUCTIONS.
O$	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SINGLE BUTTON ON/OFF CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
O$2	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
O$D	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL WITH 0-10V DIMMING, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED. WATTSTOPPER DW-311 OR EQUAL.
O$F	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL, 180° COVERAGE, ADDITIONAL POWER SUPPLY FOR FAN OPERATION, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
$T	WALL MOUNTED DIGITAL TIMED SWITCH (5 MIN'S TO 12 HR'S), SINGLE BUTTON ON/OFF CONTROL, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
	RECESSED SINGLE/DOUBLE GANG BOX WITH BLANK COVER PLATE, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED
	RECESSED DEDICATED/PICTURE/CLOCK SINGLE OUTLET, 120VAC, 20A, MOUNTED AS INDICATED ON DRAWING.
	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.
	RECEPTACLE, QUADPLEX, 120VAC, 20A MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.
	RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.
	RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.
	RECEPTACLE, 250VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWING
	RECEPTACLE, 480VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWING
	RECEPTACLE, DUPLEX, 120VAC, 20A CEILING MOUNTED (LAY-IN / GYPBOARD / SUSPENDED)
	RECEPTACLE, DUPLEX, 120VAC, 20A RECESSED FLOOR MOUNTED.
	UPS FED RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	UPS FED RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	**FOR ALL RECEPTACLE TYPES ABOVE: +XX"- INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (IF GIVEN) (SEE ELECTRICAL MOUNTING HEIGHT DETAIL) WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER TR - TAMPER RESISTANT S - INDICATES THE TOP RECEPTACLE OF THE DEVICE IS CONTROLLED VIA WALL SWITCH H - DEVICE MOUNTED HORIZONTALLY U - USB IN-WALL CHARGER
30A/3/3R, W/ 30AF	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, / ##AF = FUSE SIZE
CB	ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED ON DRAWINGS ##A = BREAKER SIZE / # = NUMBER OF POLES / # = NEMA RATING
	VARIABLE FREQUENCY DRIVE (VFD)
"Equip" #AMP HMCP (#HP) NEMA #	STARTER, FULL VOLTAGE, SIZE AS INDICATED ON DRAWINGS
"Equip" #AMP HMCP (#HP) NEMA #	COMBINATION STARTER WITH CIRCUIT BREAKER DISCONNECT, FULL VOLTAGE, SIZE AS INDICATED ON DRAWINGS
M$##	MANUAL MOTOR STARTER, ELECTRICAL CONTRACTOR SHALL COORDINATE POLES AND SIZE WITH EQUIPMENT ## = AMPERAGE RATING WHEN INDICATED ON DRAWING

SYMBOL	DESCRIPTION
	1 BUTTON CONTROLLER
	2 START/STOP PUSHBUTTON CONTROLLER
	3 UP/STOP/DN PUSHBUTTON CONTROLLER
EPO	WALL MOUNTED 120V EMERGENCY OFF PUSH BUTTON WITH RED MUSHROOM STYLE HEAD WITH MANUAL PULL REST, NORMALLY OPEN, WITH CLEAR PROTECTIVE COVER. MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
	WALL MOUNTED PUSH PLATE MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
208/120V	PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26 WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
480/277V	
	TRANSFORMER, SIZE AS INDICATED ON DRAWING
	METER
PP	SERVICE POLE, TWO-CHANNEL POLE WITH KNOCKOUTS FOR RECEPTACLES AND DATA DROPS.
M	ELECTRICAL MOTOR
	GROUND BUS, "E" INDICATES ELECTRICAL GROUND BAR, "TG" INDICATES TELECOMMUNICATIONS GROUND BAR
	CABLE TRAY, LADDER TYPE
	CABLE TRAY, CENTER HUNG TYPE
	CABLE TRAY, BASKET TYPE
	HAND HOLE, IN GRADE, TIER RATING AS INDICATED ON DRAWING
	HATCHING INDICATES ITEMS TO BE DEMOLISHED. REMOVE DEVICE, EQUIPMENT, FIXTURE INDICATED, CIRCUIT, AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
1	DEMOLITION KEY NOTE SYMBOL
1	KEY NOTE SYMBOL
1	REVISION DELTA
WP WAP WALL CLNG	WIRELESS ACCESS POINT, 2 CAT6 DATA CABLES IN A DUAL GANG BOX WITH A SINGLE GANG PLASTER RING, OWNER SHALL PROVIDE SURGE PROTECTOR AND WAP DEVICE, THE ELECTRICAL CONTRACTOR SHALL INSTALL. WP - LISTED WEATHER-RESISTANT TYPE DEVICE
2V/2D	COMBINATION DATA/TELEPHONE OUTLET, MOUNTED 16" AFF UNLESS OTHERWISE NOTED. PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA ROOM. #V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS, IF INDICATED
	WALL TELEPHONE OUTLET, MOUNTED 48" AFF UNLESS OTHERWISE NOTED. PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA ROOM.
2V/2D	COMBINATION DATA/TELEPHONE OUTLET, RECESSED CEILING MOUNTED (LAY-IN / GYPBOARD) PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA ROOM. #V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS, IF INDICATED
2V/4D PT	COMBINATION POWER/DATA BOX, RECESSED FLOOR MOUNTED (POKE-THROUGH SIMILAR TO HUBBELL S1R6PTWZGRY). PROVIDE GRAY POWDER COAT COVER PLATE WITH FLUSH ACCESS COVERS FOR EACH PLUG IN CONNECTION. PROVIDE PULL STRING IN CONDUIT. SEE DETAIL D5, SHEET E-501
2V/2D 2G FB	COMBINATION POWER/DATA BOX, RECESSED FLOOR MOUNTED (CAST-IN-PLACE). PROVIDE BRASS COVER PLATE WITH FLUSH ACCESS COVERS FOR EACH PLUG IN CONNECTION. PROVIDE PULL STRING IN CONDUIT UNDER SLAB TO NEAREST WALL, STUB ABOVE CEILING. #G = GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES, VOICE AND DATA 4 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA CAPABILITIES (CONFIRM WITH OWNER FOR REQUIREMENTS). PROVIDE METALLIC IN-USE COVER (HUBBELL CFB4G SERIES, BLACK FLANGED CARPET COVER WITH 2 EGRESS DOORS OR EQUIVALENT). SEE DETAIL D4, SHEET E-501
	JUNCTION BOX - WALL MOUNTED +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (if given)
J	JUNCTION BOX - CEILING/ABOVE CEILING MOUNTED
J	JUNCTION BOX - FLOOR MOUNTED

SYMBOL	DESCRIPTION
	WALL MOUNTED DOUBLE GANG BOX FOR TELEVISION MOUNTED AT 72" AFF UNLESS NOTED OTHERWISE. BOX SHALL HAVE DUPLEX RECEPTACLE AND DATA CONNECTIONS FOR TELEVISION AS DIRECTED BY OWNER/CLIENT/TENANT. BOX SHALL BE PASS & SEYMOUR TV2MW OR APPROVED EQUIVALENT.
	CEILING MOUNTED DOUBLE GANG BOX FOR TELEVISION RECESSED IN CEILING. BOX SHALL HAVE DUPLEX RECEPTACLE AND DATA CONNECTIONS FOR TELEVISION AS DIRECTED BY OWNER/CLIENT/TENANT. BOX SHALL BE PASS & SEYMOUR TV2MW OR APPROVED EQUIVALENT.
	ELECTRIC STRIKE
	MAGNETIC LOCK
	DOOR CONTACTS
	CARD READER
	KEYPAD
M	MOTION DETECTOR (TYPE DENOTED)
WP	WALL MOUNTED CAMERA, WP INDICATES WEATHERPROOF
	CEILING MOUNTED CAMERA
S	CEILING MOUNTED SPEAKER
S	WALL MOUNTED SPEAKER
	FLOOR MOUNTED DATA RACK
	WALL MOUNTED DATA RACK
	PROJECTOR PAN, CEILING MOUNTED
	1 HOUR RATED FIRE WALL
(X)	1 HOUR RATED FIRE WALL - EXISTING
	2 HOUR RATED FIRE WALL
(X)	2 HOUR RATED FIRE WALL - EXISTING
	3 HOUR RATED FIRE WALL
(X)	3 HOUR RATED FIRE WALL - EXISTING
OHP	OVERHEAD PRIMARY CONDUCTORS
(X)OHP	OVERHEAD PRIMARY CONDUCTORS - EXISTING
UGP	UNDERGROUND PRIMARY CONDUCTORS
(X)UGP	UNDERGROUND PRIMARY CONDUCTORS - EXISTING
OHS	OVERHEAD SECONDARY CONDUCTORS
(X)OHS	OVERHEAD SECONDARY CONDUCTORS - EXISTING
UGS	UNDERGROUND SECONDARY CONDUCTORS
(X)UGS	UNDERGROUND SECONDARY CONDUCTORS - EXISTING
G	COPPER CLASS 1 CONDUCTOR ON ROOF
GA	ALUMINUM CLASS 1 CONDUCTOR ON ROOF
	COPPER CLASS 1 CONDUCTOR BELOW GRADE
C	CONTROL CABLE CONDUIT
	GROUND ROD, COPPER, 3/4"DIA x 10'-0" LONG
"A"	COPPER AIR TERMINAL IN BRONZE BASE
"B"	ALUMINUM AIR TERMINAL IN ALUMINUM BASE
T	226V - STYLE THRU-ROOF CONNECTOR (TYPE T)
T1	230V - STYLE THRU-ROOF CONNECTOR (TYPE T1)
"BM"	LIGHTNING CONDUCTOR CABLE CONNECTOR
	GROUNDING ELECTRODE CONDUCTOR, 10' COILED ABOVE GRADE

TYPICAL ABBREVIATIONS:

A, AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BOF	BOTTOM OF FIXTURE
BRKR	BREAKER
C, CND	CONDUIT
CAB	CABINET
CAT	CATALOG
CL	CHLORINE
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CR	CONTROL RELAY, CORROSION RESISTANT
CS	CONTROL SWITCH
CV	CONTROL VALVE
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DI	DOOR INTERLOCK
DISC SW	DISCONNECT SWITCH
DN	DOWN
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EQ, EQIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FLR	FLOOR
FWE	FURNISHED WITH EQUIPMENT
GEN	GENERATOR
G, GND	GROUND
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
Hz	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
INCAND	INCANDESCENT
JB	JUNCTION BOX
K	THOUSAND
Kcmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATTS
KWH	KILOWATT-HOURS
LP	LIGHTING PANEL, LIGHT POLE
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N, NEUT	NEUTRAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX, PUSH-BUTTON
PF	POWER FACTOR
PH,ϕ	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PP	POWER PANEL, POWER POLE
PT	POTENTIAL TRANSFORMER
PWR	POWER
RECPT,RCP	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RTU	REMOTE TELEMETRY UNIT
SCR	DC MOTOR DRIVE
SH	SHEET
SM	SURFACE MOUNTED
SPEC	SPECIFICATION
SS	SELECTOR SWITCH
SST	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCH GEAR
TEL	TELEPHONE
TPS	TWISTED PAIR SHIELDED
TVSS, SPD	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG, UGND	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE, WATT
WH	WATT-HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
(X)	EXISTING

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023311 WILLIAM ALLEN CRIBBS
10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
LEGEND AND ABBREVIATIONS

ORIG SUBMISSION: 2024.10.29

SHEET:
E-001

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PAPER SIZE

ELECTRICAL GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 70, THE NORTH CAROLINA STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.)
3. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.
4. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF THE PROJECT SPECIFICATIONS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.
6. TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED.
7. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.
8. ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO ADDITIONAL COST.
9. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS.
10. CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.
11. UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
12. CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
13. DEVICE BOXES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
14. BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
15. SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.
16. IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER-RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT.
17. RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKETIGHT.
18. RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS AND CEILINGS.
19. LIGHTING FIXTURES, SPEAKER ASSEMBLIES, ETC. MOUNTED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH UL-LISTED, PRE-FABRICATED OR FIELD FABRICATED SHROUDS/ACCESSORIES NECESSARY TO MAINTAIN THE CEILING FIRE RATING.
20. ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE. IF APPLICABLE, MATCH EXISTING RACEWAY INSTALLATION METHODS AND ROUTINGS AT OR NEAR EXISTING FACILITIES.
21. INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.
22. USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS AND FOR EXTERIOR DEVICES/LIGHT FIXTURES UNLESS NOTED OTHERWISE.
23. PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.
24. SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.
25. CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING AREAS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE WITH RODS OF SUFFICIENT SIZE TO PREVENT VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS SPECIFICALLY APPROVED. CEILING MOUNTED EXIT LIGHT FIXTURES SHALL BE INSTALLED LEVEL. DO NOT SUPPORT DEVICES FROM ACCOUSTICAL CEILING TILE.
26. PROVIDE ADHESIVE BACKED RECEPTACLE AND SWITCH/DIMMER/OCCUPANCY SENSOR DEVICE PLATE LABELS IDENTIFYING THE PANEL AND CIRCUIT FEEDING THE DEVICE. LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER.
27. FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.
30. CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
31. DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.
32. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 3/4" MINIMUM RACEWAY.
33. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET, I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET. IF 277 VOLT CIRCUITS ARE SHOWN, USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS WITH TOTAL INSTALLED LENGTH GREATER THAN 200 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 125 FEET, I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.
34. KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 6 [12] INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.
35. DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.
36. DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
37. DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE ARCHITECT/ENGINEER.
38. TROUGH TAPS SHALL BE AT SWITCH AMPACITY, UNLESS NOTED OTHERWISE.
39. INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS AND CASEWORK DETAILS. IF CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.
40. PROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL ELECTRIC WATER COOLERS, EXTERIOR RECEPTACLES AND RECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN NON-RESIDENTIAL KITCHENS SHALL BE GFI PROTECTED.
41. CONNECT BATTERY PACK TYPE EMERGENCY AND EXIT LIGHTING TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE CONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY.
42. COORDINATE LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. IF CONFLICTS ARE NOTED, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEDING.
43. ADJACENT SWITCHES SHALL BE GANGED. INSTALL BARRIERS BETWEEN UNLIKE VOLTAGE SECTIONS.
44. SEPARATE NEUTRALS ARE REQUIRED FOR ALL DIMMED LIGHTING CIRCUITS.
45. WHERE THE DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL FEATURES/SWITCHING (DIMMING, EMERGENCY BATTERY BALLAST, MULTI-LEVEL, ETC), THE CONTRACTOR SHALL PROVIDE THESE FIXTURES WITH THE APPROPRIATE BALLASTING TO ACCOMMODATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY DRAWING NOTES.
46. COORDINATE LOCATIONS OF MECHANICAL, DATA AND TELEPHONE AND AUDIO/VISUAL EQUIPMENT AND OF TENANT-PROVIDED EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND VENDORS AND THE TENANT BEFORE ROUGH-IN. ADJUST LIGHTING FIXTURES, RECEPTACLES AND ELECTRICAL EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN
47. BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.
48. ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.
49. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORDSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALITY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.
50. THE LAYOUT AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS IS BASED ON PUBLISHED EQUIPMENT SIZES AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, SWITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.
51. TELECOMMUNICATIONS AND DATA CABLES WILL BE PROVIDED AND INSTALLED BY THE OWNER. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS.
52. COORDINATE FIRE ALARM SYSTEM MODIFICATIONS WITH THE TENANT AND THE FIRE ALARM CONTRACTOR. THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE TENANT.
53. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM WORK ON THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO DE-PROGRAMMING REMOVED DEVICES, PUTTING SYSTEM ON TEST, PROTECTING EXISTING DEVICES DURING CONSTRUCTION, ETC. EC SHALL INCLUDE IN BID THE COST FOR THE FIRE ALARM VENDOR TO PERFORM THIS WORK. THE EC SHALL BE RESPONSIBLE FOR PAYING FOR ANY FALSE ALARMS CAUSED BY THE CONSTRUCTION FOR THIS PROJECT.
54. INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.
55. PROTECT ALL EXISTING POWER, COMMUNICATIONS, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE TENANT AND ARCHITECT/ENGINEER IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE TENANT, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
56. THE CONTRACT REQUIRES SEVERAL NEW CIRCUITS BE ADDED TO EXISTING PANELBOARDS AND NUMEROUS EXISTING CIRCUITS' LOADING WILL CHANGE AS A RESULT OF THIS WORK. THE CONTRACTOR SHALL ENDEAVOR TO MAINTAIN PHASE BALANCE ON ALL PANELBOARDS AFFECTED BY THIS WORK. RECONNECT/MODIFY/EXTEND EXISTING CIRCUITING AS REQUIRED TO MAINTAIN SAFE CIRCUIT LOADING AND PHASE BALANCE. COORDINATE CONNECTIONS TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WITH THE TENANT AND ARCHITECT/ENGINEER. PROVIDE ACCURATE, UPDATED, TYPED PANEL SCHEDULES FOR ALL AFFECTED PANELS. NOTE ALL FINAL CIRCUIT CONFIGURATIONS ON AS-BUILT DRAWINGS.
57. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED AND SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL CONDITION WHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL BE DONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY PRIOR TO BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER.
58. INSTALL WORK AT SUCH TIME AS TO REQUIRE THE MINIMUM AMOUNT TO CUTTING AND PATCHING.
59. CUT OPENINGS ONLY LARGE ENOUGH TO ALLOW EASY INSTALLATION OF THE CONDUIT.
60. WHEN INDICATED, CONNECT NEW LOADS TO EXISTING ABANDONED CIRCUITS SERVING THE SAME AREA AND NOTE CIRCUITS ON AS-BUILT DRAWINGS.
61. EXISTING CIRCUITING WHERE SHOWN IS FOR CONVENIENCE PURPOSES ONLY. VERIFICATION OF EXISTING WIRING DESTINATION, TERMINATION AND ADDITIONS OF NEW LOADS IS THE RESPONSIBILITY OF THE CONTRACTOR.
62. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THIS WORK.
63. DESIGN AND ADDITION OF NEW CIRCUITING IS BASED ON THE ENGINEER'S BEST INFORMATION REGARDING EXISTING CONDITIONS AND CURRENT BASE BUILDING DRAWINGS. AVAILABILITY OF ADEQUATE CIRCUIT BREAKER SPACE FOR NEW WORK IN EXISTING PANELBOARDS SHALL BE VERIFIED BY THE CONTRACTOR AFTER DEMOLITION OF THE EXISTING SPACE. IF ADEQUATE SPACE IS NOT AVAILABLE FOR NEW CIRCUIT BREAKERS THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR RESOLUTION.
64. ABANDONED POWER WIRING, RACEWAYS AND CONDUCTORS, SHALL BE REMOVED BACK TO THEIR SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.
65. TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED, OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.
66. INSOFAR AS POSSIBLE, MATCH EXISTING EXPOSED DEVICES IN FINISHED AREAS IN TYPE, COLOR AND FINISH.
67. THE EXISTING ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED BY THE ENGINEER FROM THE TENANT'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF THE EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.
68. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL SYSTEMS AND THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE CONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS VISITED THE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVERNING HIS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY EXISTING JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.
69. SOME EXISTING RECEPTACLE, LIGHTING OR OTHER LOADS MAY BE SERVED BY CIRCUITS INDICATED TO BE REMOVED. IF SUCH CONDITIONS ARE DISCOVERED, REQUEST THE ARCHITECT/ENGINEER PROVIDE NEW CIRCUIT NUMBER FOR THE LOAD. DO NOT INDISCRIMINATELY CONNECT TO THE NEAREST CIRCUIT.
70. ALL UNUSED OUTLET BOXES SHALL BE REMOVED OR, WITH SPECIFIC APPROVAL OF THE ARCHITECT/ENGINEER, SHALL BE BLANKED WITH STAINLESS STEEL PLATES. ALL OPENINGS IN EXISTING WALLS AND CEILINGS MADE BY THIS CONTRACTOR SHALL BE REPAIRED TO AN EQUAL FINISH AS ADJACENT SURFACES.
71. PROVIDE ALL ELECTRICAL RELOCATION WORK ASSOCIATED WITH THE RELOCATING OF EQUIPMENT FOR THE EXISTING FACILITIES, INCLUDING DISCONNECTING ALL EXISTING WIRING AND CONDUITS AND PROVIDING NEW WIRING AND CONDUITS TO THE RELOCATED EQUIPMENT.
72. THE EXISTING FACILITIES WILL REMAIN OCCUPIED BY THE STAFF THROUGHOUT THE PROJECT. AS SUCH, WORK WILL REQUIRE SPECIAL EFFORT BY THIS CONTRACTOR TO ALLOW THE WORK TO PROCEED IN A TIMELY MANNER. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE TENANT AND GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE TENANT'S USE OF THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE GENERAL CONTRACTOR. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS CONCERNING PHASING AND SEQUENCE OF WORK.
73. SAFETY: COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.
74. ALL SWITCHES, RECEPTACLE AND LIGHTS SHALL COMPLY WITH ANSI 117.2 FOR ADA REQUIREMENTS.

ELECTRICAL SELECTIVE DEMOLITION NOTES:

1. SELECTIVE ELECTRICAL DEMOLITION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS. GROSS DEMOLITION WILL BE PROVIDED BY THE GENERAL CONTRACTOR. IDENTIFY ACTIVE UTILITIES, AND AT THE APPROPRIATE TIME, DISCONNECT AND CAP OFF SUCH UTILITIES AND PROVIDE EXPERIENCED PERSONNEL ON SITE DURING GENERAL CONTRACTOR DEMOLITION OPERATIONS TO PERFORM SUCH OPERATIONS AND RESOLVE ISSUES. REMOVE MATERIALS NOTED FOR SALVAGE AND REUSE. IDENTIFY AND MARK WIRING AND DEVICES TO REMAIN FOR THE GENERAL CONTRACTOR.
2. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND CARRY OUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL WIRING DEVICES, BOXES, FIXTURES, EXPOSED ABANDONED RACEWAYS, HANGARS, ETC., MADE OBSOLETE BY THESE ALTERATIONS AND AS SHOWN ON THE ELECTRICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY ELECTRICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR ARCHITECT/ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS MAY EXIST.
3. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
4. ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
5. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.
6. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
7. DISCONNECT AND/OR DE-ENERGIZE ELECTRICAL SYSTEMS IN WALLS AND CEILINGS SCHEDULED FOR REMOVAL.
8. PROVIDE TEMPORARY AND/OR PERMANENT WIRING AND CONNECTIONS AS SHOWN AND/OR AS REQUIRED BY CONDITIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT CIRCUITS, AND WHEN SUCH WORK IS SPECIFICALLY APPROVED BY THE OWNER AND PERMITTED BY REGULATORY AUTHORITIES, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
9. EXISTING ELECTRICAL SERVICE: COORDINATE POWER OUTAGES WITH THE OWNER. MAINTAIN EXISTING SYSTEMS IN SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
10. CONTINUOUS SERVICE IS REQUIRED ON ALL CIRCUITS AND OUTLETS AFFECTED BY THESE CHANGES, EXCEPT WHERE THE OWNER WILL PERMIT AN OUTAGE FOR A SPECIFIC TIME. OBTAIN OWNER'S CONSENT BEFORE REMOVING ANY CIRCUIT FROM CONTINUOUS SERVICE.
11. PROTECT ALL EXISTING TELEPHONE, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM, SECURITY, ACCESS CONTROL AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
12. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE PROTECTED FROM DAMAGE AND REMAIN OR BE SUITABLY RELOCATED UTILIZING MATCHING SIZE AND TYPE MATERIALS AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
13. EXISTING FIRE ALARM SYSTEM: COORDINATE WORK WITH THE FIRE ALARM CONTRACTOR AND MAINTAIN THE EXISTING SYSTEM IN SERVICE UNTIL THE NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY THE OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. LIMIT OUTAGES TO NORMAL BUSINESS HOURS ONLY AND MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
14. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
15. ENDS OF ALL CONDUITS TO REMAIN SHALL BE TIGHTLY PLUGGED TO EXCLUDE DUST AND MOISTURE WHILE THE BUILDING IS UNDER RENOVATION.
16. PROTECT EXISTING CIRCUITS TO REMAIN AND EXTEND AS REQUIRED UTILIZING MATCHING CONDUCTORS AND CONDUIT SIZE AND TYPE.
17. SECURE ALL CIRCUITS, RACEWAYS, CABLE AND CONDUCTORS THAT, AS A RESULT FROM THIS CONSTRUCTION, ARE ABANDONED OR UNUSED. REMOVE UNUSED EXPOSED CONDUIT AND WIRING BACK TO POINT OF CONCEALMENT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. REMOVE UNUSED WIRING IN CONCEALED CONDUITS BACK TO SOURCE OR NEAREST POINT OF USAGE. BLANK ABANDONED KNOCKOUTS IN REMAINING BOXES. INSTALL BLANK

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PAPER SIZE D

ELECTRICAL SPECIFICATIONS:

260500 GENERAL ELECTRICAL

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS INSOFAR AS THEY APPLY.
   1. THE NATIONAL ELECTRICAL CODE, 2020 EDITION
   2. THE NATIONAL ELECTRICAL SAFETY CODE
   3. UNDERWRITER'S LABORATORIES, INC., STANDARDS AND APPROVED LISTINGS
   4. ELECTRICAL TESTING LABORATORIES STANDARDS
   5. NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION AND REVISIONS
   6. ALL LOCAL CODES AND ORDINANCES
   7. NFPA 72
   8. ADA
B. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., REQUIRED FOR THE WORK AND SHALL PAY FOR SAME. THE CONTRACTOR SHALL FURNISH A FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE OF THE WORK.
C. ALL WORK SHALL BE DONE BY SKILLED MECHANICS AND SHALL PRESENT A NEAT, TRIM AND WORKMANLIKE FINISH WHEN COMPLETED.
D. COORDINATION: DO NOT SCALE ELECTRICAL DRAWINGS. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND FIELD MEASURE FOR EXACT MEASUREMENTS IN THE PLACEMENT OF EQUIPMENT, FIXTURES, OUTLETS, ETC. THE DRAWINGS DO NOT GIVE EXACT DETAILS AS TO ELEVATIONS AND LOCATIONS OF VARIOUS FITTINGS, CONDUIT, ETC., AND DO NOT SHOW ALL OFFSETS AND OTHER INSTALLATION DETAILS WHICH MAY BE REQUIRED.
E. WORK WITH OTHER CONTRACTORS: THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS FOR ALL PLUMBING AND HVAC EQUIPMENT.
F. MATERIALS: ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME, AND UL LABEL WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL. MATERIALS SHALL BE THE STANDARD PRODUCTS OF MANUFACTURER'S REGULARLY ENGAGED IN THE MANUFACTURE OF THE REQUIRED TYPE OF EQUIPMENT AND THE MANUFACTURER'S LATEST APPROVED DESIGN. OTHER MATERIALS AND EQUIPMENT TO BE AS SHOWN ON THE DRAWINGS. WHERE NO SPECIFIC MATERIAL TYPE IS MENTIONED, A HIGH-QUALITY PRODUCT OF A REPUTABLE MANUFACTURER MAY BE USED PROVIDED IT CONFORMS TO THE REQUIREMENTS OF THESE SPECIFICATIONS.
G. ELECTRICAL DISTRIBUTION SYSTEM TESTS
   1. ALL CURRENT CARRYING PHASE CONDUCTORS AND NEUTRALS SHALL BE TESTED AS INSTALLED, AND BEFORE CONNECTIONS ARE MADE, FOR INSULATION RESISTANCE AND ACCIDENTAL GROUNDS. THIS SHALL BE DONE WITH A 500 VOLT MEGGER.
      a. MINIMUM READINGS SHALL BE ONE MILLION (1,000,000) OR MORE OHMS FOR #6 WIRE AND SMALLER, 250,000 OHMS OR MORE FOR #4 WIRE OR LARGER BETWEEN CONDUCTORS AND BETWEEN CONDUCTOR AND THE GROUNDED METAL RACEWAY.
      b. AFTER ALL FIXTURES, DEVICES AND EQUIPMENT ARE INSTALLED AND ALL CONNECTIONS COMPLETED TO EACH PANEL, THE CONTRACTOR SHALL DISCONNECT THE NEUTRAL FEEDER CONDUCTOR FROM THE NEUTRAL BAR AND TAKE A MEGGER READING BETWEEN THE NEUTRAL BAR AND GROUNDED ENCLOSURE. IF THIS READING IS LESS THAN 250,000 OHMS, THE CONTRACTOR SHALL DISCONNECT THE BRANCH CIRCUIT NEUTRAL WIRES FROM THIS NEUTRAL BAR. HE SHALL THEN TEST EACH ONE SEPARATELY TO THE PANEL AND UNTIL THE LOW READING ONES ARE FOUND. THE CONTRACTOR SHALL CORRECT TROUBLES, RECONNECT AND RETEST UNTIL AT LEAST 250,000 OHMS FROM THE NEUTRAL BAR TO THE GROUNDED PANEL CAN BE ACHIEVED WITH ONLY THE NEUTRAL FEEDER DISCONNECTED.
      c. THE CONTRACTOR SHALL CERTIFY IN WRITING THE ABOVE HAS BEEN DONE AND TABULATE THE MEGGER READINGS FOR EACH PANEL.
   2. TEST ALL SYSTEMS MODIFIED OR DISTURBED BY THIS CONSTRUCTION FOR PROPER OPERATION AND FUNCTION IN A MANNER APPROVED BY THE SYSTEM MANUFACTURER. PROVIDE WRITTEN CERTIFICATION OF ALL TESTS.
H. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PROVIDING CODE CLEARANCES. SUBMIT A SCALE DRAWING OF EACH ELECTRICAL EQUIPMENT ROOM SHOWING EXACT SIZE AND LOCATION OF ALL PROPOSED ELECTRICAL EQUIPMENT WITH CODE CLEARANCES AND WORKING SPACE CLEARLY INDICATED FOR PURCHASING EQUIPMENT.
I. SUBMITTALS: SUBMITTALS SHALL INCLUDE PRODUCT DATA FOR ALL MATERIALS SPECIFIED AND COMPONENT INDICATED INCLUDING EACH PANELBOARD, LIGHTING FIXTURE, LAMPS, OVERCURRENT PROTECTIVE DEVICE, FIRE ALARM SYSTEM, SURFACE RACEWAY, WIREWAY, RACEWAY FITTINGS, WIRING DEVICES AND ACCESSORIES. INCLUDE DIMENSIONS AND MANUFACTURERS TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS AND FINISHES.
J. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE THE MATERIALS AND WORKMANSHIP COVERED BY THESE DRAWINGS AND SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY PARTS OF ANY SYSTEM THAT MAY PROVE TO BE DEFECTIVE AT NO ADDITIONAL COST TO THE OWNER WITHIN THE GUARANTEE PERIOD.
K. EXISTING BUILDINGS AND CONSTRUCTION
   1. THE CONTRACTOR IS CAUTIONED THAT WORK TO BE PERFORMED UNDER THIS CONTRACT IS TO BE ACCOMPLISHED IN AN EXISTING OCCUPIED BUILDING. ALL SUCH WORK SHALL BE SCHEDULED AND ARRANGED TO BE DONE AT THE CONVENIENCE OF THE OWNER SO AS NOT TO INTERFERE WITH, DISRUPT, OR DISTURB NORMAL OPERATIONS IN THE BUILDING. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE PROCEEDING WITH WORK IN EXISTING BUILDINGS AND SHALL WORK IN EXISTING BUILDINGS ON SCHEDULE AS AGREED UPON WITH THE OWNER.
   2. THE CONTRACTOR SHALL, AT ALL TIMES, PROVIDE SAFETY BARRIERS, PROTECTIVE DEVICES, SCREENING, DUST BARRIERS, ETC., AS REQUIRED TO MAINTAIN THE SAFETY AND COMFORT OF THE BUILDING'S PERSONNEL AND/OR OCCUPANTS IN OR NEAR HIS WORK AREA.
   3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP IN CONNECTION WITH HIS WORK IN EXISTING BUILDINGS. ALL DEMOLISHED EQUIPMENT AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. AT THE END OF EACH WORKING DAY, DEBRIS, BOXES, WASTE, ETC., SHALL BE REMOVED FROM THE BUILDINGS AND PROPERLY DISPOSED OF. CONTRACTOR EQUIPMENT, MATERIALS, ETC., MUST BE PROPERLY STORED, STACKED AND LOCATED AS INSTRUCTED BY THE OWNER.
   4. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, FINISHING, REPAIRING, PAINTING, ETC., NECESSARY FOR WORK TO BE INSTALLED IN EXISTING BUILDINGS. ALL FINISHES SHALL BE LEFT TO EQUAL FINISH AND CONDITION PRIOR TO CUTTING. NO CUTTING OF STRUCTURAL MEMBERS WILL BE ALLOWED. REMOVE/REPLACE EXISTING LAY-IN CEILING AS REQUIRED TO ACCOMPLISH WORK. ALL CUTTING OF WALLS, FLOORS, ROOFS, ETC., SHALL BE REPAIRED AND/OR REPLACED TO EQUAL FINISH PRIOR TO CUTTING. CORE DRILL ALL HOLES FOR PIPING AND CONDUIT. THE CONTRACTOR SHALL ROUTE PIPE, CONDUITS, DUCTWORK AND LOCATE EQUIPMENT AS APPROVED BY THE OWNER'S REPRESENTATIVE. ROUTINGS AND LOCATIONS SHALL BE FIRMLY ESTABLISHED AND APPROVED BEFORE PROCEEDING WITH ANY PHASE OF THE WORK.
   5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING BUILDINGS, GROUNDS, WALKWAYS, PAVING, ETC., CAUSED BY THE WORK, THE CONTRACTOR AND/OR HIS PERSONNEL, AND/OR HIS EQUIPMENT IN THE ACCOMPLISHMENT OF THIS WORK. SUCH DAMAGES SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, TO FINISH EQUAL TO THAT FINISH PRIOR TO DAMAGE. THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE AS TO EQUAL FINISHES, ETC.
   6. COORDINATE POWER OUTAGES WITH THE OWNER. REQUEST OUTAGES 24 HOURS IN ADVANCE.

260519 CONDUCTORS

A. CONDUCTORS SHALL BE COPPER, MINIMUM SIZE #12. SIZES #10 AND #12 SHALL BE SOLID, #8 AND LARGER, STRANDED. INSULATION INSOFAR AS THEY APPLY, THW, THWN OR THHN FOR FEEDERS, AND TYPE THWN OR THHN FOR BRANCH CIRCUITS.
B. CONDUCTORS SHALL BE COLOR CODED THROUGHOUT, SIZES #10 AND #12 SHALL BE FACTORY CODED, SIZES #6 AND LARGER MAY BE COLOR TAPED ON THE JOB. COLOR CODING SHALL BE: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, NEUTRAL - WHITE, GROUND - GREEN FOR 120/208 VOLT SYSTEMS. COLOR CODING SHALL BE: PHASE A - BROWN, PHASE B - ORANGE, PHASE C - YELLOW, NEUTRAL - GREY, GROUND - GREEN FOR 277/480 VOLT SYSTEMS.
C. CONDUCTORS SHALL MEET THE LATEST REQUIREMENTS OF NEMA AND IPCEA AND SHALL BE UL APPROVED.
D. ALL CONDUCTORS SHALL BE CONTINUOUS WITHOUT SPLICE BETWEEN JUNCTION, OUTLET, DEVICE BOXES, ETC., UNLESS NOTED OTHERWISE. NO SPLICING WILL BE PERMITTED IN PANELBOARD CABINETS, SAFETY SWITCHES, ETC.

260526 GROUNDING

A. ALL GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. IN ADDITION, THE FOLLOWING REQUIREMENTS SHALL BE MET:
   1. GROUNDING CONDUCTORS SHALL BE INSTALLED AS TO PERMIT THE SHORTEST AND MOST DIRECT PATH FROM EQUIPMENT TO GROUND. ALL GROUND CONNECTIONS TO GROUND CONDUCTOR SHALL BE ACCESSIBLE.
   2. EQUIPMENT GROUND CONTINUITY SHALL BE MAINTAINED THROUGH FLEXIBLE METAL CONDUIT.
   3. ALL WIRING DEVICES EQUIPPED WITH GROUNDING CONNECTION SHALL BE SOLIDLY GROUNDED TO GROUND SYSTEM WITH GROUNDING CONDUCTORS.
   4. THE FRAME OF ALL LIGHTING FIXTURES SHALL BE SECURELY GROUNDED TO THE EQUIPMENT GROUND SYSTEM WITH GROUNDING CONDUCTORS.
   5. GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES SHALL BE SOLIDLY GROUNDED TO EQUIPMENT GROUNDING SYSTEM WITH A GREEN COLORED INSULATED CONDUCTOR. ELECTRICAL CONNECTIONS SHALL BE CONTINUOUS FROM EQUIPMENT GROUND BUS IN PANELBOARD TO THE HEX NUT ON THE CONVENIENCE OUTLET OR SWITCH.
   6. ALL CIRCUITS SHALL CONTAIN AN INSULATED, GREEN, COPPER GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE NEC. GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT GROUND BUS IN PANELBOARD AND SECURELY ATTACHED AND GROUNDED TO THE DEVICE OR ENCLOSURE AT THE OTHER END.
   7. ALL EQUIPMENT ENCLOSURES, AND NON-CURRENT METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, ETC., SHALL BE EFFECTIVELY AND ADEQUATELY BONDED TO GROUND.

260529 SUPPORTING DEVICES

A. PROVIDE MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS AND SUPPORTS TO CARRY THE LOADS OF EQUIPMENT AND CONDUIT. CONSIDER WEIGHT OF WIRE IN CONDUIT WHEN SELECTING PRODUCTS. PROVIDE ADEQUATE CORROSION RESISTANCE.
B. ANCHORS AND FASTENERS:
   1. CONCRETE STRUCTURAL ELEMENTS: USE EXPANSION ANCHORS.
   2. STEEL STRUCTURAL ELEMENTS: USE BEAM CLAMPS.
   3. CONCRETE SURFACES: USE SELF_DRILLING ANCHORS AND EXPANSION ANCHORS.
   4. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: USE TOGGLE BOLTS.
   5. SOLID MASONRY WALLS: USE EXPANSION ANCHORS.
   6. SHEET METAL: USE SHEET METAL SCREWS OR BOLTS
   7. WOOD ELEMENTS: USE WOOD SCREWS.
C. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
D. PROVIDE CHANNELS, FASTENERS, AND SUPPORTS IN ACCORDANCE WITH NECA "STANDARD OF INSTALLATION".
E. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, AND CONDUIT.
F. DO NOT USE POWER_ACTUATED ANCHORS.
G. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.
H. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL. RIGIDLY WELD MEMBERS OR USE HEXAGON HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. USE SPRING LOCK WASHERS UNDER ALL NUTS.
I. INSTALL SURFACE_MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
J. IN WET AND DAMP LOCATIONS USE STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS ONE INCH (25 MM) OFF WALL.
K. CONDUITS INSTALLED ON THE INTERIOR OF EXTERIOR BUILDING WALLS SHALL BE SPACED AWAY FROM THE WALL SURFACE A MINIMUM OF 1/4 INCH (65MM) USING "CLAMP-BACKS" OR STRUTS.
L. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.

260533 RACEWAYS AND FITTINGS

A. RACEWAYS SHALL BE RIGID GALVANIZED STEEL OR ELECTRICAL METALLIC TUBING AND/OR EMT FITTINGS SHALL BE HEX NUT STEEL COMPRESSION TYPE WITH INSULATED THROATS.
B. MC CABLE WITH INSULATED GROUND CONDUCTOR MAY BE USED FOR BRANCH CIRCUITS. DO NOT USE WHERE SUBJECT TO PHYSICAL DAMAGE, OR WHERE EXPOSED TO CORROSIVE CONDITIONS.
C. FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT: UL APPROVED AND LABELED WITH HEX NUT STEEL FITTINGS.
D. JUNCTION AND OUTLET BOXES FOR INTERIOR USE IN DRY LOCATIONS SHALL BE ZINC COATED OR CADMIUM PLATED SHEET STEEL, 4" SQUARE BY 2-1/8" DEEP, EXCEPT SINGLE WIRING DEVICE BOXES MAY BE SINGLE GANG.
E. RACEWAYS, BOXES, FITTINGS, ETC., SHALL BE SOLIDLY FASTENED TO MASONRY WITH LEAD ANCHORS AND MACHINE SCREWS OR TOGGLE BOLTS. RACEWAYS SHALL BE FASTENED TO STRUCTURAL STEEL WITH BEAM CLAMPS, CONDUIT HANGERS, TRAPEZE HANGERS, OR OTHER APPROVED DEVICES.
F. BOXES INSTALLED IN CONCEALED LOCATIONS SHALL BE SET FLUSH WITH THE FINISHED SURFACES AND SHALL BE PROVIDED WITH EXTENSION RINGS OR PLASTIC COVERS WHERE REQUIRED. BOXES SHALL BE RIGIDLY INSTALLED.
G. RACEWAYS PASSING THROUGH RATED WALLS, FLOORS, ETC., SHALL BE INSTALLED IN ACCORDANCE WITH PUBLISHED UL CONFIGURATIONS.
H. RACEWAYS SHALL BE SIZED AS SHOWN AND/OR AS REQUIRED BY THE NEC. MINIMUM SIZE SHALL BE 1/2".
I. RACEWAY AND BOX INSTALLATION:
   1. INDOORS (EXPOSED): USE EMT, RIGID STEEL OR IMC. RIGID STEEL WHERE SUBJECT TO PHYSICAL DAMAGE.
   2. INDOORS (CONCEALED): USE EMT, IMC OR RIGID STEEL), MC CABLE WITH INSULATED GROUND. INDOORS (WET AND DAMP LOCATIONS): USE RIGID STEEL.
   3. BOXES AND ENCLOSURES
      a. INDOORS: NEMA 250, TYPE 1, EXCEPT IN DAMP AND WET LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL OR NON-METALLIC

260534 BOXES

A. JUNCTION, SWITCH, RECEPTACLE AND OUTLET BOXES FOR INTERIOR USE IN DRY LOCATIONS SHALL BE ZINC COATED OR CADMIUM PLATED SHEET STEEL, 4" SQUARE AND 2-1/8" DEEP, UNLESS OTHERWISE INDICATED ON THE CONTRACT DRAWINGS. EXTERIOR AND EXPOSED BOXES SHALL BE CAST TYPE WITH HUBS. SMALLER AND SHALLOWER OUTLET BOXES WILL BE PERMITTED ONLY BY SPECIAL PERMISSION OF THE ARCHITECT/ENGINEER WHERE SUCH BOXES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS ENCOUNTERED. WHERE LARGER JUNCTION BOXES ARE REQUIRED, THEY SHALL BE FABRICATED FROM NO. 10, 12, 14 OR 16 GAUGE SHEET STEEL AS REQUIRED BY THE UNDERWRITER'S LABORATORIES, INC., AND GALVANIZED AFTER FABRICATION.
B. USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS AND FOR EXTERIOR DEVICES/LIGHT FIXTURES UNLESS NOTED OTHERWISE. USE STAMPED STEEL BRIDGES TO FASTEN FLUSH MOUNTING OUTLET BOX BETWEEN STUDS, CADDY RBS SERIES OR EQUIVALENT.
C. ALL JUNCTION BOXES SHALL HAVE SCREW FASTENED COVERS. OUTLET BOXES SHALL BE PROVIDED WITH EXTENSION PLASTER RINGS WHERE REQUIRED BY STRUCTURAL AND FINISH CONDITIONS.
D. SET WALL MOUNTED BOXES AT ELEVATIONS TO ACCOMMODATE MOUNTING HEIGHTS INDICATED AND SPECIFIED IN SECTION FOR OUTLET DEVICE. BOXES ARE SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ADJUST BOX LOCATION UP TO 10 FEET (3 M) IF REQUIRED TO ACCOMMODATE INTENDED PURPOSE. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES, AND BACKSPLASHES.
E. INSTALL BOXES TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS, USING APPROVED MATERIALS AND METHODS.

260553 IDENTIFICATION

A. WIRE MARKERS
   1. PROVIDE SPLIT SLEEVE TYPE WIRE MARKERS OR APPROVED EQUIVALENT ON EACH CONDUCTOR AT PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND EACH LOAD CONNECTION. LEGEND: (1) POWER AND LIGHTING CIRCUITS: BRANCH CIRCUIT OR FEEDER NUMBER AS INDICATED ON DRAWINGS. (2) CONTROL CIRCUITS: CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS ON DRAWINGS.
   2. MULTIWIRE BRANCH CIRCUIT PHASE CONDUCTORS SHALL BE CLEARLY IDENTIFIED IN EACH BRANCH CIRCUIT PANELBOARD. ATTACH A YELLOW FLAG TYPE PLASTIC CABLE TIE TO EACH PHASE CONDUCTOR OF A MULTIWIRE BRANCH CIRCUIT AT APPROXIMATELY 2" FROM THE CIRCUIT BREAKER TERMINAL. INSTALL A YELLOW WITH BLACK LETTER IDENTIFICATION LABEL IN THE PANELBOARD DOOR STATING "YELLOW CABLE TIE FLAGS ON CONDUCTORS INDICATE THE CONDUCTOR IS PART OF A COMMON NEUTRAL MULTIWIRE BRANCH CIRCUIT. DO NOT MOVE CONDUCTOR TO ANOTHER BREAKER".
B. IDENTIFICATION NAMEPLATES: FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANELBOARDS AND ELECTRICAL EQUIPMENT SUPPLIED FOR IDENTIFICATION OF EQUIPMENT CONTROLLED, SERVED, PHASE, VOLTAGE, ETC. NAMEPLATES SHALL BE SECURELY ATTACHED TO EQUIPMENT WITH METAL SCREWS AND SHALL IDENTIFY BY NAME THE EQUIPMENT CONTROLLED, ATTACHED, ETC. LETTERS SHALL BE APPROXIMATELY 1/4-INCH HIGH MINIMUM. EMBOSSED, SELF-ADHESIVE PLASTIC TAPE IS NOT ACCEPTABLE. NAMEPLATE MATERIAL COLORS SHALL BE BLACK SURFACE WITH WHITE CORE FOR NORMAL POWER SYSTEM AND RED SURFACE WITH WHITE CORE FOR THE EMERGENCY POWER SYSTEM.
   RECEPTACLE CIRCUIT IDENTIFICATION: PROVIDE ADHESIVE BACKED, LAMINATED PLASTIC RECEPTACLE DEVICE PLATE LABELS IDENTIFYING THE CIRCUIT FEEDING THE DEVICE. LABELS SHALL BE LABEL MACHINE PRINTED, BLACK LETTERING ON A CLEAR BACKGROUND, TO INDICATE PANEL AND CIRCUIT NUMBER AND SHALL BE CASIO, BROTHER, T&B OR APPROVED EQUAL. PRINT CIRCUIT NUMBER ON FLAG TYPE PLASTIC CABLE TIE WITH A PERMANENT MARKER (SHARPIE, ETC.) AND ATTACH TO CONDUCTORS IN OUTLET BOX. FLAG SHALL BE READILY VISIBLE UPON REMOVAL OF DEVICE PLATE. LOCATION: EACH RECEPTACLE DEVICE PLATE. APPLY CENTERED ON THE LOWER PORTION BELOW THE RECEPTACLE, PARALLEL TO THE LOWER EDGE OF LEGEND. TYPED LABELS TO INDICATE PANEL AND CIRCUIT NUMBER FEEDING THE DEVICE (I.E., RPA-24).

262416 PANELBOARDS

A. NEMA PB1, CIRCUIT BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD WITH COPPER PHASE BUS, 100% COPPER GROUND AND NEUTRALS BUSES AND CONDUITS INSTALLED ON THE INTERIOR OF EXTERIOR BUILDING WALLS SHALL BE SPACED AWAY FROM THE WALL SURFACE A MINIMUM OF 1/4 INCH (65MM) USING "CLAMP-BACKS" OR STRUTS.
B. PANELBOARDS SHALL BE MANUFACTURED BY EATON, GENERAL ELECTRIC, SIEMENS OR SQUARE D.
C. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS. PROVIDE SPARE CONDUITS OUT OF EACH RECESSED PANELBOARD TO AN ACCESSIBLE LOCATION ABOVE CEILING AND BELOW FLOOR. MINIMUM SPARE CONDUITS: 5 EMPTY 1 INCH (DN27). IDENTIFY EACH AS SPARE. GROUND AND BOND PANELBOARD ENCLOSURE ACCORDING TO SECTION 16170.

262726 WIRING DEVICES

A. PROVIDE COMMERCIAL SPECIFICATION GRADE RECEPTACLES AND SWITCHES IN COLOR SELECTED BY THE ARCHITECT. ALL DEVICES SHALL BE RATED 20 AMPERES. PROVIDE MATCHING PLASTIC DEVICE PLATES. EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT TYPE, GFI AND INSTALLED IN WEATHERPROOF WHILE-IN-USE COVER.
B. OCCUPANCY SENSORS: OCCUPANCY SENSORS SHALL UTILIZE DUAL TECHNOLOGY SENSING. ACCEPTABLE TECHNOLOGY IS PASSIVE INFRARED (PIR), ULTRASONIC AND MICROPHONIC. DUAL TECHNOLOGY IS REQUIRED UTILIZING PIR AND ONE OF THE OTHER TECHNOLOGIES. SENSORS SHALL AUTOMATICALLY ADJUST TIME DELAYS AND SENSITIVITY BASED ON THE ACTIVITY LEVEL IN THE SPACE. ALL SWITCHES SHALL BE APPROVED BY A THIRD-PARTY AGENCY, APPROVED FOR THE VOLTAGE AND CURRENT INDICATED. SENSORS SHALL BE COMPATIBLE WITH ALL LOAD TYPES.
   1. WALL SWITCH LINE VOLTAGE SENSORS FOR SMALL AREAS: LINE VOLTAGE, SINGLE GANG, WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH ONE OVERRIDE SWITCH. SENSOR SHALL RECESS INTO SINGLE GANG SWITCH BOX AND FIT A STANDARD GFI RECEPTACLE PLATE OPENING. SWITCHES SHALL BE COMPATIBLE WITH STANDARD THREE AND FOUR-WAY TOGGLE SWITCHES. PROVIDE HARD LENS SWITCHES IN STORAGE ROOMS AND OTHER LOCATION SUBJECT TO ABUSE. ADJUSTABLE TIME DELAY OF 20 MINUTES, 180 DEGREE FIELD OF VIEW, MINIMUM COVERAGE AREA OF 900 SF. VOLTAGE: 120-277 VOLTS AC, MINIMUM LOAD RATING 800 WATTS AT 120 VAC, 1200 WATTS AT 277 VAC. HUBBELL AT120 OR AT277 OR EQUAL BY SENSOR SWITCH OR WATTSTOPPER.
   2. CEILING MOUNTED LOW VOLTAGE SENSORS FOR LARGE AREAS: LOW VOLTAGE, RECESS CEILING MOUNTED OCCUPANCY SENSOR SWITCH SHALL OPERATE IN CONJUNCTION WITH A LINE VOLTAGE POWER PACK TO CONTROL THE CONNECTED LIGHTING LOADS. SENSORS SHALL OPERATE ON A CLASS 2, THREE-CONDUCTOR CABLE SYSTEM. MULTIPLE SENSORS SHALL BE CONNECTABLE TO A SINGLE POWER PACK. SENSOR SHALL RECESS INTO A TWO GANG OUTLET BOX. ADJUSTABLE TIME DELAY OF 1 - 15 MINUTES. HUBBELL ATD1000C OR ATD500C FOR SPACES LESS THAN 500 SQUARE FEET, OR EQUAL BY SENSOR SWITCH OR WATTSTOPPER. POWER PACKS SHALL BE RATED 20A AT 120-277 VOLTS AND SHALL BE COMPATIBLE WITH ALL LOAD TYPES, INCLUDING ELECTRONIC AND COMPACT FLUORESCENT BALLASTS, INCANDESCENT OR FLUORESCENT. THEY SHALL HAVE THE CAPACITY TO POWER ADDITIONAL REMOTE HEADS OR ADDITIONAL RELAYS. POWER PACKS MAY BE PARALLELED TO ACCOMMODATE EXTRA LOAD OR MORE THAN THREE HEADS OR ADDITIONAL RELAYS. ADDITIONAL RELAY SHALL BE USED WHERE THERE IS MORE THAN ONE CIRCUIT BEING CONTROLLED OR WHERE THERE IS A NEED TO CONTROL MULTIPLE VOLTAGES. HUBBELL CUL20A -(120V) OR HUBBELL CU277A-(277V) (ADDITIONAL RELAY FOR MULTIPLE CIRCUIT APPLICATIONS HUBBELL AAR), OR EQUAL BY SENSOR SWITCH OR WATTSTOPPER.

262816 SAFETY SWITCHES

A. NEMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED (DEFEATABLE) TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. MECHANISMS SHALL BE NON-TEASIBLE, POSITIVE, QUICK MAKE-QUICK BREAK TYPE. HANDLE LOCKABLE IN ON OR OFF POSITION. HANDLE SHALL HAVE HANDLES WHOSE POSITIONS ARE EASILY RECOGNIZABLE IN THE ON OR OFF POSITION. FUSE CLIPS SHALL BE DESIGNED TO ACCOMMODATE NEMA FU1, CLASS R FUSES.
B. SAFETY SWITCHES SHALL BE MANUFACTURED BY EATON, GENERAL ELECTRIC, SIEMENS OR SQUARE D.

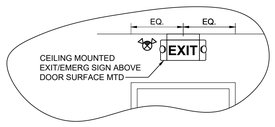
262817 CIRCUIT BREAKERS

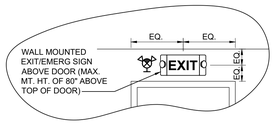
A. CIRCUIT BREAKERS INDICATED TO BE INSTALLED IN EXISTING PANELBOARDS SHALL BE MOLDED CASE, UL LISTED AND SHALL BE RATED AS SHOWN ON THE DRAWINGS. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL NEW CIRCUIT BREAKERS. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING TYPES INSTALLED AND BE RATED CONSISTENT WITH THE EXISTING EQUIPMENT TO MAINTAIN EQUIPMENT RATINGS. ACCESSORIES SHALL BE PROVIDED AS NOTED OR REQUIRED AND SHALL BE UL LISTED AND FIELD INSTALLABLE. FOR PROJECTS WHERE CIRCUIT BREAKERS WILL BE ADDED TO EXISTING GEAR.
B. CIRCUIT BREAKERS SHALL BE MANUFACTURED BY EATON, GENERAL ELECTRIC, SIEMENS OR SQUARE D.

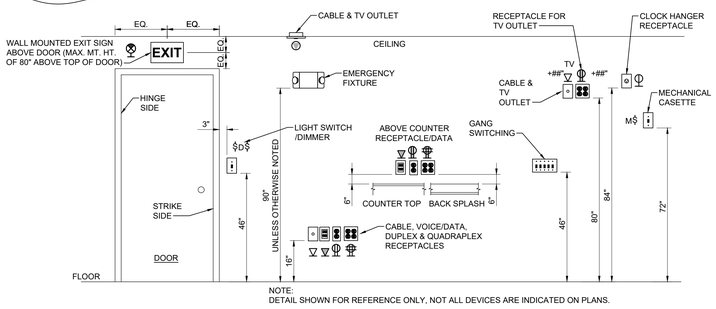
265100 LIGHTING FIXTURES [LED]

A. LIGHTING FIXTURE TYPES SHALL BE FURNISHED AS REQUIRED BY THE LIGHTING FIXTURE SCHEDULE AS INDICATED ON THE DRAWINGS. CATALOG NUMBERS ARE PROVIDED AS A GUIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. EQUIVALENT DESIGNS AND EQUAL QUALITY FIXTURES OF OTHER MANUFACTURERS LISTED WILL BE ACCEPTABLE UPON APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL VERIFY FROM THE CONTRACT DRAWINGS THE TYPE CEILINGS OR WALLS THE FIXTURE IS TO BE USED WITH AND SHALL PROVIDE COMPATIBLE MOUNTING ATTACHMENTS AND TRIM. PROVIDE ALL ACCESSORIES OR ADDITIONAL MATERIALS REQUIRED TO MAINTAIN THE CEILING FIRE RATING AS REQUIRED BY REGULATORY AUTHORITIES.
B. LED SOURCES SHALL BE HIGH INTENSITY WHITE, SINGLE COLOR AS NOTED. PROVIDE WHITE LEDS IN THE COLOR TEMPERATURE(S) SPECIFIED. THE COLOR TEMPERATURE IN ALL LAMPS OF THE SAME TYPE SHALL BE CONSISTENT AND REMAIN SO OVER THE LIFE OF THE LAMP. COLOR SONSITENCEY BETWEEN LAMPS SHALL CONFORM TO ANSI NEMA ANSLG STANDARD C78.377-2008. THE CONTRCTOR SHALL REPLACE LAMPS/FIXTURES EXIBITING INCONSISTENT LAMP COLOR. MINIMUM LUMEN MAINTENANCE SHALL BE 70% OF INITIAL LUMEN OUTPUT AT 50,000 HOURS OF OPERATION. MEASUREMENT OF LUMEN MAINTENANCE SHALL BE IN ACCORDANCE WITH ISED LM-80-09. THE LAMP AND/OR LUMINARE MANUFACTURER SHALL PROVIDE A MINIMUM OF FIVE YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE AGAINST PREMATURE FAILURE, DISCOLORATION AND DEFECTS. THE COLOR OR COLOR TEMPERATURE OF THE REPLACEMENT LED LAMPS SHALL MATCH THOSE OF THE SAME LAMP TYPES THAT REMAIN IN OPERATION. THE MINIMUM COLOR RENDERING INDEX OF WHILE LEDS SHALL BE 80. ELECTRICAL AND PHOTOMETRIC PERFORMANCE OF LED ASSEMBLIES AND LUMINAIRES SHALL CONFORM TO IES LM 79-08.
C. LENSES SHALL BE CLEAR VIRGIN ACRYLIC MATERIAL WITH UNIFORM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PAPER SIZES

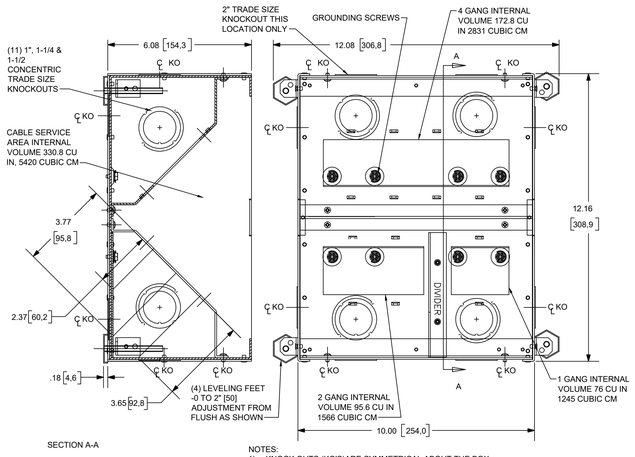






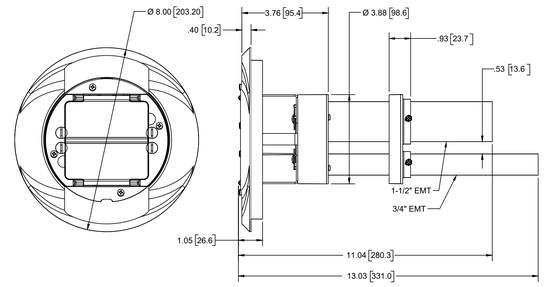
NOTE:
DETAIL SHOWN FOR REFERENCE ONLY, NOT ALL DEVICES ARE INDICATED ON PLANS.

D1 **ELECTRICAL DEVICES - MOUNTING HEIGHT DETAIL**
NOT TO SCALE

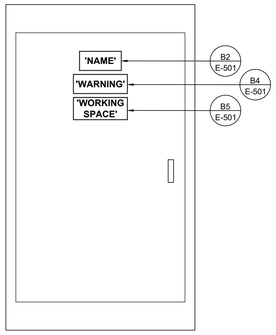


NOTES:
1) KNOCK OUTS (KO'S)ARE SYMMETRICAL ABOUT THE BOX
2) ACCEPTS STANDARD SIZE WALL PLATES - 1,2, & 4 GANG.
3) TEMPORARY COVER NOT SHOWN. .12 [3.0] THK. X 10.5 [266.7] X 12.5 [315.5]
4) ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]
5) DIVIDER IS REMOVABLE.

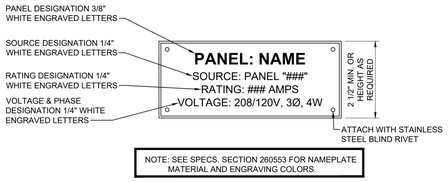
D4 **FLOOR BOX**
NOT TO SCALE



D5 **6" POKE-THRU**
NOT TO SCALE

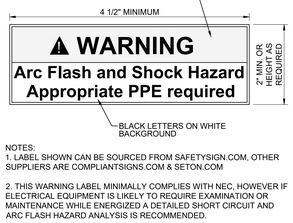


B1 **REQUIRED PANELBOAD NAMEPLATE & LABELS DETAIL**
NOT TO SCALE



NOTE: SEE SPECS. SECTION 260553 FOR NAMEPLATE MATERIAL AND ENGRAVING COLORS.

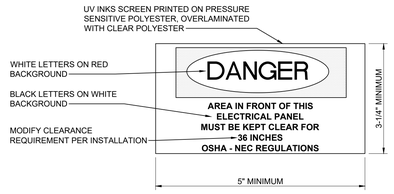
B2 **TYPICAL PANELBOARD NAMEPLATE DETAIL**
NOT TO SCALE



NOTES:
1. LABEL SHOWN CAN BE SOURCED FROM SAFETYSIGN.COM, OTHER SUPPLIERS ARE COMPLIANTSIGNS.COM & SETON.COM

2. THIS WARNING LABEL MINIMALLY COMPLIES WITH NEC, HOWEVER IF ELECTRICAL EQUIPMENT IS LIKELY TO REQUIRE EXAMINATION OR MAINTENANCE WHILE ENERGIZED A DETAILED SHORT CIRCUIT AND ARC FLASH HAZARD ANALYSIS IS RECOMMENDED.

B4 **ELECTRICAL EQUIPMENT WARNING LABEL DETAIL**
NOT TO SCALE



B5 **NEC WORKING SPACE LABEL DETAIL**
NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN ORTNER
10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
DETAILS

ORIG SUBMISSION: 2024.10.29

SHEET:
E-501
100% PERMIT SET

E D C B A
1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PRINTED ON 30X42 SHEETS ORIGINAL PAGE SIZE

EXISTING PANEL LE1 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)REC ELEV MACH RM 859		20/1	1				2	20/1		(X)ANC PANES P1 & P2 AREA A
(X)DMSS-4 (INDOOR UNIT)		25/2	3	1,260			4	20/1		(X)FTR PANEL P1 & P2 AERA A
|		|	5			1,560	6	20/1		(X)NAC PANELS 1ST AREA A
(X)DMSS-4 (OUTDOOR UNIT)		40/2	7	1,080			8	20/1		(X)FTR PANEL 1ST AREA
|		|	9		1,520		10	20/1		(X)NAC PANELS 2ND AREA A
(X)REC & LTS ELEV PIT #859		20/1	11			1,820	12	20/1		(X)FTR PANEL 2ND AREA
(X)ELEV CAB LTS & REC #8		20/1	13	680			14	20/1		(X)NAC PANELS 3RD PENTHOUSE
(X)ELEV CAB LTS & REC #9		20/1	15		860		16	20/1	720	**RCPS: DAIS CITY COUNCIL 154C (NOTE 1)**
(X)ELEV. BADGE SYSTEM		20/1	17			860	18	20/1	540	**RCPS: DAIS CITY COUNCIL 154C (NOTE 1)**
RCPS: WALL BEHIND DAIS (NOTE 1)	720	20/1	19	500			20	20/1	720	**RCPS: DAIS CITY COUNCIL 154C (NOTE 1)**
RCPS: WALL BEHIND DAIS (NOTE 1)	540	20/1	21		500		22	20/1	720	**RCPS: DAIS CITY COUNCIL 154C (NOTE 1)**
RCPS: FLR BOX (NOTE 1)	360	20/1	23			1,080	24	20/1	540	**RCPS: DAIS CITY CNCL.FLR BOX 154C (NOTE 1)**
RCPS: FLR BOX (NOTE 2)	720	20/1	25	720			26	20/1	720	**RCPS: DAIS CITY COUNCIL 154C (NOTE 2)**
RCPS: FLR BOX (NOTE 2)	720	20/1	27		1,440		28	20/1	720	**RCPS: DAIS CITY COUNCIL 154C (NOTE 2)**
RCPS: FLR BOX (NOTE 2)	540	20/1	29			1,080	30	20/1	540	**RCPS: DAIS CITY COUNCIL 154C (NOTE 2)**
MOTORIZED PROJ SCREEN (NOTE 2)	240	15/1	31	2,008			32	20/1	1,768	**RCP: REAR PROJ (NOTE 2)**
MOTORIZED PROJ SCREEN (NOTE 2)	240	15/1	33		2,008		34	20/1	1,768	**RCP: REAR PROJ (NOTE 2)**
RCPS: FLR BOX (NOTE 2)	360	20/1	35			540	36	20/1	180	**RCPS: AVIT/G TV (NOTE 2)**
SPACE			37	720			38	20/1	720	**RCPS: AVIT/G TV (NOTE 2)**
RCPS: AVIT/G TV (NOTE 2)	720	20/1	39		720		40	20/1		SPACE
RCPS: AVIT/G TV (NOTE 2)	720	20/1	41			720	42	-		SPACE
NOTES (AS APPLICABLE):				5,708	8,308	7,660	TTL PHASE VA		100	A. BUS (COPPER, UNO)
1. UTILIZE EXITING BREAKER				48	69	64	TTL PHASE AMPS		100	A. MAIN CIRCUIT BREAKER
2. PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING.				26%	38%	35%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L1A1 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)EX REC. ELEC. MECH. IDF	1,260	20/1	1	2,340			2	20/1	1,080	**RCPS: CUSTOMER SERV. DESK (NOTE 1)**
(X)EX REC. TELEPHONE	900	20/1	3		1,260		4	20/1	1,260	**RCPS: OFFICE 150.6 & CUST. SERV. 150 (NOTE 1)**
(X)EX REC. MENS RESTROOM	360	20/1	5			1,560	6	20/1	1,200	(X)RM 154 CORTEX
(X)EX REC. WOMENS RESTROOM	360	20/1	7	1,080			8	20/1	900	**RCPS: OFFICE 150.4 (NOTE 1)**
(X)EX WATERCOOLER	800	20/1	9		1,520		10	20/1	1,100	**RCPS: MEETING 150.3 & DOOR PWR (NOTE 1)**
(X)EX EXHAUST FANS	200	15/1	11			1,820	12	20/1	1,080	(X)RM 159 RECPT
(X)EX EMCS/HVAC CONTROLS	500	20/1	13	680			14	20/1	1,080	**RCPS: CUSTOMER SERV. DESK (NOTE 1)**
(X)EX EMCS/HVAC CONTROLS	500	20/1	15		860		16	20/1	900	(X)RM 159 XEROX 6135 RECPT.
(X)EX EMCS/HVAC CONTROLS	500	20/1	17			860	18	20/1	720	**RCPS: FINANCE DESK (NOTE 1)**
(X)EX CARD ACCESS/DOOR HRDWRE	500	20/1	19	500			20	20/1	540	**RCPS: FINANCE DESK (NOTE 2)**
(X)EX SECURITY	500	20/1	21		500		22	20/1	900	**RCPS: FINANCE DESK & CUST. SERV. (NOTE 2)**
(X)REC RM 162, 163	1,080	20/1	23			1,080	24	20/2	1,080	**RCPS: OFFICE 150.9, 150.10**
(X)REC RM 162, 164	720	20/1	25	720			26	20/1	900	**RCPS: OFFICE 150.8, 150.9 (NOTE 1)**
RCPS: MEETING 150.1 & 150.2 (NOTE 1)	1,080	20/1	27		1,080		28	50/2		(X)RM 159 XEROX 6135 RECPT.
(X)FRONT TURNABLE DOOR		20/1	29				30			
(X)REC RM 159		30/3	31	1,280			32	20/1	1,280	**RCPS: OFFICE 150.8 & FINANCE 150.7 (NOTE 2)**
|		|	33		1,100		34	20/1	1,100	**RCP: COPIER 161.2 (NOTE 2)**
|		|	35				36	20/2		(X)HEATER F DESK
REC RM 159		30/2	37				38	|		|
|		|	39				40	20/1		(X)BREAK RM TV
SPACE		-	41				42	20/1		(X)SPARE
SUBLUG	8,640			8,640						UNUSABLE SPARE
SUBLUG	10,380				10,380					UNUSABLE SPARE
SUBLUG	9,230					9,230				UNUSABLE SPARE
NOTES (AS APPLICABLE):				15,240	16,700	14,550	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. UTILIZE EXITING BREAKER				127	139	121	TTL PHASE AMPS		225	A. MAIN CIRCUIT BREAKER
2. PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING.				33%	36%	31%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L1A2

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)REC CORRIDOR 116.1	900	20/1	1	1,800			2	20/1	900	(X)REC LIBRARY RM 148, 149
(X)SYSTEMS FURNITURE 136	720	20/1	3		1,620		4	20/1	900	(X)REC NORTH OFFICES
(X)SYSTEMS FURNITURE 136	1,080	20/1	5			2,160	6	20/1	1,080	(X)REC NORTH OFFICES
RCPS: COPY & PRINT /VAULT (NOTE 2)	720	20/1	7	1,620			8	20/1	900	(X)REC NORTH OFFICES
(X)REC NORTH OFFICES	750	20/1	9		1,650		10	20/1	900	(X)REC NORTH OFFICES
(X)REC NORTH OFFICES	900	20/1	11			1,980	12	20/1	1,080	(X)REC RM 160, 161
(X)REC RM 118	900	20/1	13	1,800			14	20/1	900	(X)REC SOUTH OFFICES
(X)REC RM 112	1,440	20/1	15		2,160		16	20/1	720	(X)REC SOUTH OFFICES
(X)REC RM 139, 140	1,080	20/1	17			1,800	18	20/1	720	(X)REC SOUTH OFFICES
SPARE (NOTE 1)		20/1	19	1,260			20	20/1	1,260	(X)REC RM 1134, 135
(X)REC SOUTH OFFICES	1,080	20/1	21		2,280		22	20/1	1,200	(X)COPIER RM 135
(X)REC RM 148.1, 148.2, 145.6, 146.7	1,440	20/1	23			1,980	24	20/1	540	(X)REC LAB RM 146.12
(X)REC RM 146.8	900	20/1	25	1,260			26	20/1	360	(X)REC LAB RM 146.12
(X)REC EXAM RM 146.8	720	20/1	27		1,620		28	20/1	900	(X)REC RM 146.13, 146.14, 146.15, 151
(X)REC EXAM RM 146.9	720	20/1	29			1,260	30	20/1	540	(X)REC RM 146.14, 146.15, 146
(X)REC EXAM RM 146.10	720	20/1	31	1,220			32	20/1	500	(X)LIGHTS CAFE
(X)SERVER/STOR LAB RM 146.12	500	20/1	33		1,050		34	20/1	550	(X)LIGHTS CAFE
SPARE (NOTE 1)		20/1	35			50	36	15/1	50	(X)EXHAUST FAN
SPARE (NOTE 1)		20/2	37	400			38	20/1	400	(X)LIGHTS CONF RM 112
SPARE (NOTE 1)		|	39				40	20/2		**SPARE (NOTE 1)**
SPARE (NOTE 1)		20/1	41				42	|		**SPARE (NOTE 1)**
NOTES (AS APPLICABLE):				9,360	10,380	9,230	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. LABEL BREAKER SPARE.				78	87	77	TTL PHASE AMPS		225	A. MAIN LUGS AND/OR FEEDER RATING
2. UTILIZE EXISTING BREAKER				32%	36%	32%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L1C2 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)REC. CORRIDOR 116.5	720	20/1	1	1,620			2	20/1	900	G
(X)REC. CORRIDOR 116.8	720	20/1	3		1,620		4	20/1	900	(X)SYSTEMS FURNITURE RM 155
(X)REC. CORRIDOR 116.9	720	20/1	5			1,620	6	20/1	900	(X)SYSTEMS FURNITURE RM 155
RCPS: TV'S RETIREMENT RM 154D (NOTE 2)	720	20/1	7	1,620			8	20/1	900	(X)SYSTEMS FURNITURE RM 155
RCPS: RETIREMENT RM 154D, CIRR 116.5 (NOTE 2)	1,080	20/1	9		1,980		10	20/1	900	(X)SYSTEMS FURNITURE RM 155
RCPS: E WALL CITY COUNCIL 154C (NOTE 2)	540	20/1	11			1,440	12	20/1	900	(X)SYSTEMS FURNITURE RM 155
RCPS: S WALL CITY COUNCIL 154C (NOTE 2)	720	20/1	13	1,440			14	20/1	720	(X)REC CORR 116.5 COUNTER
RCPS: S WALL CITY COUNCIL 154C (NOTE 2)	900	20/1	15		1,620		16	20/1	720	(X)REC CORR 116.7 COUNTER
RCPS: CONF 154A, 154B (NOTE 2)	720	20/1	17			1,440	18	20/1	720	(X)REC FLOORBOX MEETING 153
RCPS: CONF 154H (NOTE 2)	360	20/1	19	900			20	20/1	540	(X)REC VISITOR CENTER COUNT
RCPS: CONF 154G, 154H (NOTE 2)	720	20/1	21		1,260		22	20/1	540	(X)REC VISITOR CENTER COUNT
TRACK LIGHTING:CITY COUNCIL 154C (NOTE 2)	1,000	20/1	23			2,080	24	20/1	1,080	(X)REC CONF CENTER CORR
(X)SPARE		20/1	25	1,440			26	20/1	1,440	(X)REC CONF CENTER CORR
(X)SPARE		20/1	27				28	20/1		(X)SPARE
(X)SPARE		20/1	29				30	20/1		(X)SPARE
SPACE		-	31				32	20/1		(X)SPARE
SPACE		-	33				34	-		SPACE
SPACE		-	35				36	-		SPACE
SPACE		-	37				38	-		SPACE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
NOTES (AS APPLICABLE):				7,020	6,480	6,580	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. LABEL BREAKER SPARE.				59	54	55	TTL PHASE AMPS		150	A. MAIN LUGS AND/OR FEEDER RATING
2. UTILIZE EXISTING BREAKER				35%	32%	33%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L1D2 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
SPARE (NOTE 1)		20/1	1				2	20/1		**SPARE (NOTE 1)**
SPARE (NOTE 1)		20/1	3				4	20/1		**SPARE (NOTE 1)**
SPARE (NOTE 1)		20/1	5				6	20/1		**SPARE (NOTE 1)**
SPARE (NOTE 1)		20/1	7				8	20/1		**SPARE (NOTE 1)**
(X)REC. FLOORBOX CONF RM 154	720	20/1	9		1,440		10	20/1	720	(X)REC. FLOORBOX CONF RM 154
(X)REC. CONFERENCE RM 154	360	20/1	11			720	12	20/1	360	(X)REC. CONFERENCE RM 154
(X)REC. FLOORBOX CONF RM 154	720	20/1	13	1,440			14	20/1	720	(X)REC. FLOORBOX CONF RM 154
(X)REC. FLOORBOX CONF RM 154	720	20/1	15		1,440		16	20/1	720	(X)REC. FLOORBOX CONF RM 154
(X)REC. FLOORBOX CONF RM 154	720	20/1	17			1,440	18	20/1	720	(X)REC. FLOORBOX CONF RM 154
(X)REC. FLOORBOX CONF RM 154	720	20/1	19	1,440			20	20/1	720	(X)REC. FLOORBOX CONF RM 154
SPARE (NOTE 1)		20/1	21				22	20/1		**SPARE (NOTE 1)**
(X)PROJECTOR SCREEN CONF 154	800	20/1	23			1,800	24	20/1	1,000	(X)PROJECTOR CONF RM 154
(X)PROJECTOR SCREEN CONF 154	800	20/1	25	1,800			26	20/1	1,000	(X)PROJECTOR CONF RM 154
(X)PROJECTOR SCREEN CONF 154	800	20/1	27		1,800		28	20/1	1,000	(X)PROJECTOR CONF RM 154
(X)A/V EQUIPMENT CONF RM 154	500	20/1	29			1,500	30	20/1	1,000	(X)PROJECTOR CONF RM 154
(X)A/V EQUIPMENT CONF RM 154	500	20/1	31	500			32	20/1		(X)SPARE
(X)A/V EQUIPMENT CONF RM 154	500	20/1	33		500		34	20/1		(X)SPARE
(X)A/V EQUIPMENT CONF RM 154	500	20/1	35			500	36	20/1		(X)SPARE
(X)SPARE		20/1	37				38	20/1		(X)SPARE
(X)SPARE		20/1	39				40	20/1		(X)SPARE
(X)SPARE		20/1	41				42	20/1		(X)SPARE
NOTES (AS APPLICABLE):				5,180	5,180	5,960	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. LABEL BREAKER SPARE.				43	43	50	TTL PHASE AMPS		150	A. MAIN LUGS AND/OR FEEDER RATING
				32%	32%	37%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L2A1 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)EX REC ELEC MECH IDF	1,260	20/1	1	2,340			2	20/1	1,080	(X)REC RM 220
(X)EX REC TELEPHONE	900	20/1	3		1,080		4	20/1	180	(X)REC RM 293
(X)EX REC MENS RESTROOM	360	20/1	5			1,560	6	20/1	1,200	(X)COOPIER RM 220
(X)EX REC WOMENS RESTROOM	360	20/1	7	660			8	20/1	300	(X)REC RM 212
(X)EX WATERCOOLER	800	20/1	9		1,700		10	20/1	900	(X)REC RM 248
(X)SPARE	200	15/1	11			1,460	12	20/1	1,260	(X)REC BATTERY 262/264
(X)SPARE	500	20/1	13	1,220			14	20/1	720	(X)REC RM 253, 208
(X)SPARE	500	20/1	15		1,220		16	20/1	720	(X)REC RM 263,265
(X)SPARE	500	20/1	17			2,000	18	20/1	1,500	(X)EMHV-6 RM 293
(X)SPARE	500	20/1	19	1,580			20	20/1	1,080	(X)REC DATA CENTER
(X)SPARE	500	20/1	21		1,040		22	20/1	540	(X)REC IT INTEGRATION
(X)REC RM 269.1, 269.2	1,260	20/1	23			1,800	24	20/1	540	(X)REC IT INTEGRATION
(X)REC RM 261		20/1	25				26	20/1		(X)REC RM 261
(X)REC RM 261		20/1	27	540			28	20/1	540	**RCPS: HR FILE ST 264B, CTY RESV 264A (NOTE 1)**
(X)REC RM 261		20/1	29		720		30	20/1	720	**RCPS: CTY RESV 264A (NOTE 1)**
SPACE		-	31	720			32	20/1	720	**RCPS: OPEN OFFICE 248 (NOTE 2)**
SPACE		-	33		540		34	-		SPACE
SPACE		-	35				36	-		SPACE
SPACE		-	37				38	-		SPACE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
SUBLUG	8,560			8,560						UNUSABLE SPACE
SUBLUG	11,540				11,540					UNUSABLE SPACE
SUBLUG	9,700					9,700				UNUSABLE SPACE
NOTES (AS APPLICABLE):				16,080	17,120	17,240	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. UTILIZE EXITING BREAKER				126	143	144	TTL PHASE AMPS		225	A. MAIN LUGS AND/OR FEEDER RATING
2. PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING.				31%	35%	35%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L3A1 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)EX REC ELEC MECH IDF	1,260	20/1	1	2,520			2	15/1	1,260	(X)REC SOUTH OFFICES
(X)EX REC TELEPHONE	900	20/1	3		1,800		4	20/1	900	(X)REC SOUTH OFFICES
(X)EX REC MENS RESTROOM	360	20/1	5			1,440	6	20/1	1,080	(X)REC SOUTH OFFICES
(X)EX REC WOMENS RESTROOM	360	20/1	7	1,800			8	20/1	**1,440**	**(X)REC SOUTH OFFICES (LOAD UPDATED)**
(X)EX WATERCOOLER	800	20/1	9		2,060		10	20/1	1,260	(X)REC SOUTH OFFICES
(X)SPARE	200	15/1	11			1,280	12	20/1	1,080	(X)REC SOUTH OFFICES
(X)EX EMCS/HVAC CONTROLS	500	20/1	13	1,600			14	20/1	**1,100**	**(X)REC SOUTH OFFICES, DR PWR (LOAD UPDATED)**
(X)EX EMCS/HVAC CONTROLS	500	20/1	15		1,940		16	20/1	**1,440**	***(X)REC SOUTH OFFICES (LOAD UPDATED)***
(X)EX EMCS/HVAC CONTROLS	500	20/1	17			1,400	18	20/1	900	(X)REC SOUTH OFFICES
(X)SCANNER ROOM	500	20/1	19	550			20	15/1	50	(X)EXHAUST FAN
(X)SCANNER ROOM	500	20/1	21		500		22	15/1		**SPARE (NOTE 2)**
(X)REC OPEN OFFICE RM 330	540	20/1	23			690	24	20/1	150	(X)EXHAUST FANS
(X)REC SOUTH OFFICES	1,440	20/1	25	1,440			26	-		SPACE
(X)REC SOUTH OFFICES	1,080	20/1	27		1,080		28	-		SPACE
(X)REC SOUTH OFFICES (LOAD UPDATED)	**1,260**	20/1	29			**1,260**	30	-		SPACE
SPACE		-	31				32	-		SPACE
SPACE		-	33				34	-		SPACE
SPACE		-	35				36	-		SPACE
SPACE		-	37				38	-		SPACE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
SUBLUG	8,920			8,920						UNUSABLE SPACE
SUBLUG	5,380				5,380					UNUSABLE SPACE
SUBLUG	6,620					6,620				UNUSABLE SPACE
NOTES (AS APPLICABLE):				16,830	12,760	**12,690**	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. LABEL BREAKER SPARE				140	106	**106**	TTL PHASE AMPS		225	A. MAIN CIRCUIT BREAKER
2. UTILIZE EXITING BREAKER				40%	30%	**30%**	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L3A2 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)REC OPEN OFFICE RM 323	720	20/1	1	1,980			2	20/1	1,260	(X)REC FILE RM 315
(X)REC CONF RM 326, 328, 329	900	20/1	3		**1,620**		4	20/1	**720**	(X)STORE RM 367, 363 COPY RM
(X)REC COPY RM 327	360	20/1	5			540	6	20/1	180	(X)REC BREAK RM 364
(X)REC NORTH OFFICES	1,260	20/1	7	1,260			8	-		SPACE
(X)REC NORTH OFFICES	1,080	20/1	9		1,260		10	20/1	180	(X)REC BREAK RM 354
(X)REC NORTH OFFICES	1,260	20/1	11			1,980	12	20/1	720	(X)REC CONFERENCE RM 361
(X)REC NORTH TERMINALS	720	20/1	13	1,440			14	20/1	720	(X)REC CONFERENCE RM 365
(X)REC NORTH TERMINALS	720	20/1	15		1,520		16	20/1	800	(X)VENDING MACHINE RM 354
(X)REC N.H TRMNLS, HEATHER OFF 313B (NOTE 2	**900**	20/1	17			**1,700**	18	20/1	800	(X)VENDING MACHINE RM 365
(X)REC: MWDI MAIL BOX 314, DR PWR (NOTE 2)	**740**	20/1	19	**1,540**			20	20/1	800	(X)VENDING MACHINE RM 366
(X)COPIER RM 327	180	20/1	21		980		22	20/1	800	(X)REFRIGERATOR RM 364
(X)COPIER RM 327	1,200	20/1	23			2,400	24	20/1	1,200	(X)COPIER RM 364
(X)EWH-6 RM 364	1,500	20/1	25	2,700			26	20/1	1,200	(X)COPIER RM 364
(X)SYSTEM FURNITURE 330		20/1	27				28	20/1		(X)SYSTEM FURNITURE
(X)SYSTEM FURNITURE 330		20/1	29				30	20/1		(X)SYSTEM FURNITURE
(X)SYSTEM FURNITURE 330		20/1	31				32	20/1		(X)SYSTEM FURNITURE
SPACE		-	33				34	20/1		(X)SYSTEM FURNITURE
SPACE		-	35				36	20/1		(X)SYSTEM FURNITURE
SPACE		-	37				38	20/1		(X)SYSTEM FURNITURE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
NOTES (AS APPLICABLE):				8,920	5,380	6,620	TTL PHASE VA		225	A. BUS (COPPER, UNO)
1. UTILIZE EXITING BREAKER				74	45	55	TTL PHASE AMPS		225	A. MAIN LUGS AND/OR FEEDER RATING
				43%	26%	32%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL L3B1 REVISED

TYPE: 208 | 120 | VOLTS: 3 | PHASE: 4 | WIRE | PROVIDE IF CHECKED: XX EQUIPMENT GROUND BUS; XX 100 % NEUTRAL BUS; ULSE LABEL; ISOLATED GROUND BAR
BOLT-ON / HINGED TRIM | MOUNT: SURFACE | FEED: TOP | NEMA - 1 ENCLOSURE

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
RCPS: CITY FUTURE GROWTH (NOTE 1)	900	20/1	1	1,980			2	20/1	1,080	(X)SYSTE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

EXISTING PANEL HE1 REVISED

TYPE:	480	277	VOLTS, 3	PHASE,	4 WIRE	PROVIDE	XX	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE				IF	XX	100 % NEUTRAL BUS
HINGED TRIM	FEED:	TOP				CHECKED		ULSE LABEL
	NEMA -	1	ENCLOSURE					ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)PENDANTS CC HALL (EM)		20/1	1	1,195			2	20/1	1,195	LTS: CITY COUNCIL 154C (NOTE 1)
(X)EM LIGHTS		20/1	3		1,260		4	20/1	1,050	LTS: CITY COUNCIL 154C (NOTE 1)
(X)EM LIGHTS (WEST 1ST)		20/1	5			1,560	6	20/1	840	LTS: CITY COUNCIL 154C (NOTE 1)
			7	1,080			8			
			9		1,520		10			
			11			1,820	12			
			13	680			14			
			15		860		16			
			17			860	18			
			19	500			20			
			21		500		22			
			23			1,080	24			
			25	720			26			
			27				28			
			29				30			
LTS: CITY COUNCIL 154C TOE-KICK (NOTE 1)	480	20/1	31	480			32	-		SPACE
SPARE		20/1	33				34	-		SPACE
(X)EM LIGHTS	930	20/1	35			930	36	-		SPACE
(X)PANEL LE2	4,421	50/3	37	4,421			38	-		SPACE
|	5,386	|	39		5,386		40	-		SPACE
|	3,825	|	41			3,825	42	-		SPACE
NOTES (AS APPLICABLE):				9,076	9,526	10,075	TTL PHASE VA		100	A. BUS (COPPER, UNO)
1. UTILIZE EXITING BREAKER				33	34	36	TTL PHASE AMPS		100	A. MAIN CIRCUIT BREAKER
				32%	33%	35%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL H1A2 REVISED

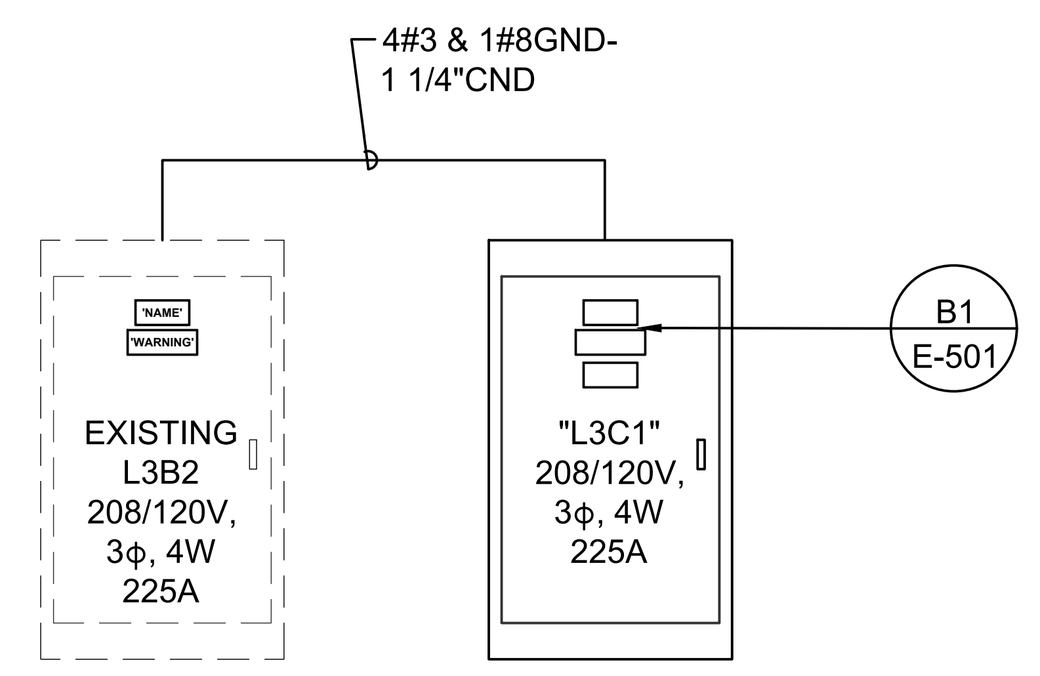
TYPE:	480	277	VOLTS, 3	PHASE,	4 WIRE	PROVIDE	XX	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE				IF	XX	100 % NEUTRAL BUS
HINGED TRIM	FEED:	TOP				CHECKED		ULSE LABEL
	NEMA -	1	ENCLOSURE					ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)EX LTS CORE	868	20/1	1	3,487			2	20/1	2,619	LTS: B WEST, CORR 161.11
(X)LTS: A ELEV VESTIBULE	1,664	20/1	3		3,218		4	20/1	1,554	LTS: B CUSTOMER SERVICE 150, 150.7 (NOTE 1)
(X)LTS: A NORTH	1,240	20/1	5			3,774	6	20/1	2,534	(X)LTS: B NORTH
(X)LTS: A NORTH	2,108	20/1	7	4,092			8	20/1	1,984	(X)LTS: B NORTH
(X)LTS: A NORTH	1,362	20/1	9		3,168		10	20/1	1,806	(X)LTS: B NORTH CORR
LTS: A RSTRM, PLNG CUCT SERV 150.0 (NOTE 1)	1,850	20/1	11			4,458	12	20/1	2,608	(X)LTS: B NORTH CORR
(X)LTS: A CONF CENTER CORR	3,662	20/1	13	5,292			14	20/1	1,630	(X)LTS: B LOBBY
(X)LTS: A VISITOR CENTER	1,536	20/1	15		3,972		16	20/1	2,436	(X)LTS: B SOUTH
(X)LTS: A VISITOR CENTER	1,950	20/1	17			3,782	18	20/1	1,832	(X)LTS: B CLINIC
SPACE		20/1	19	3,750			20	20/1	3,750	(X)LTS: B CAFÉ
(X)LTS A CONF CENT4ER CORR	2,065	20/1	21		3,829		22	20/1	1,764	(X)LTS: B CAFÉ
SPACE		-	23				24	-		SPACE
SPACE		-	25				26	-		SPACE
SPACE		-	27				28	-		SPACE
SPACE		-	29				30	-		SPACE
SPACE		-	31				32	-		SPACE
SPACE		-	33				34	-		SPACE
SPACE		-	35				36	-		SPACE
SPACE		-	37				38	-		SPACE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
NOTES (AS APPLICABLE):				16,621	14,187	12,014	TTL PHASE VA		400	A. BUS (COPPER, UNO)
1. UTILIZE EXISTING BREAKER				60	51	43	TTL PHASE AMPS		400	A. MAIN LUGS AND/OR FEEDER RATING
				39%	33%	28%	PHASE BALANCE		10	KAIC MINIMUM RATING

EXISTING PANEL H3A2 REVISED

TYPE:	480	277	VOLTS, 3	PHASE,	4 WIRE	PROVIDE	XX	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE				IF	XX	100 % NEUTRAL BUS
HINGED TRIM	FEED:	TOP				CHECKED		ULSE LABEL
	NEMA -	1	ENCLOSURE					ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR TRIP/POLES	CKT #	PHASE LOAD VA A	B	C	CKT #	CKT BKR TRIP/POLES	LOAD VA	LOAD SERVED
(X)EX LTS CORE	868	20/1	1	2,337			2	20/1	1,469	LIGHTS STING (NOTE 1)
LIGHTS NORTH, PENNY OFFICE, CLERK SUITE (NOTE 1)	1,557	20/1	3		4,125		4	20/1	2,568	LIGHTS WEST, CORR
LIGHTS NORTH, OFFICES 316,326 (NOTE 1)	2,378	20/1	5			3,445	6	20/1	1,067	LIGHTS SOUTH, TECH LAB 330.3 (NOTE 1)
(X)LIGHTS EAST	2,000	20/1	7	4,232			8	20/1	2,232	(X)LIGHTS SOUTH
(X)LIGHTS EAST	682	20/1	9		2,294		10	20/1	1,612	(X)LIGHTS SOUTH
(X)LIGHTS PERIMETER EAST	1,054	20/1	11			4,332	12	20/1	3,278	(X)LIGHTS MAIN CORRIDOR
(X)SPARE		20/1	13				14	-		SPACE
(X)LUTRON POWER		20/1	15				16	-		SPACE
(X)SPARE		20/1	17				18	-		SPACE
SPACE		-	19				20	-		SPACE
SPACE		-	21				22	-		SPACE
SPACE		-	23				24	-		SPACE
SPACE		-	25				26	-		SPACE
SPACE		-	27				28	-		SPACE
SPACE		-	29				30	-		SPACE
SPACE		-	31				32	-		SPACE
SPACE		-	33				34	-		SPACE
SPACE		-	35				36	-		SPACE
SPACE		-	37				38	-		SPACE
SPACE		-	39				40	-		SPACE
SPACE		-	41				42	-		SPACE
NOTES (AS APPLICABLE):				6,569	6,419	7,777	TTL PHASE VA		400	A. BUS (COPPER, UNO)
1. UTILIZE EXISTING BREAKER				24	23	28	TTL PHASE AMPS		400	A. MAIN LUGS AND/OR FEEDER RATING
				32%	31%	37%	PHASE BALANCE		10	KAIC MINIMUM RATING



ELECTRM [304]

E3 PARTIAL RISER DIAGRAM

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	SOURCE / TEMP(oK) / DELIVERED LUMENS	VOLTS	WATTS	LENS	COLOR/ MATERIAL	MOUNTING HEIGHT	DRIVER/ DIMMING	REMARKS
A1	RECESSED CAN - ROUND	GOTHAM ARCH LIGHTING: IVO6S D 50LM 40K 90CRI MWD P AR LSS	6"	LEDs / 4000K / 4406 LUMENS	MVOLT	50	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	4
A2	RECESSED CAN - SQUARE	LITHONIA: LDN6SQ 35/15 LS6WR	6"	LEDs / 3500K / 1500 LUMENS	MVOLT	18	ACRYLIC	WHITE	RECESSED	LED DRIVER 0-10V DIMMING	7
A3	RECESSED CAN - ROUND	LITHONIA: LDN6 35/15 LS6WR	6"	LEDs / 3500K / 1500 LUMENS	MVOLT	18	ACRYLIC	WHITE	RECESSED	LED DRIVER 0-10V DIMMING	
A4	RECESSED CAN - SQUARE	LITHONIA: LDN4SQ 35/15 LS4WR	4"	LEDs / 3500K / 1500 LUMENS	MVOLT	19	ACRYLIC	WHITE	RECESSED	LED DRIVER 0-10V DIMMING	
B1	SURFACE CYLINDER	GOTHAM ARCH LIGHTING: IVO6CYL D 50LM 40K 90CRI MWD P AR LSS	6"	LEDs / 4000K / 4406 LUMENS	MVOLT	50		BLACK	SURFACE	LED DRIVER 0-10V DIMMING	4
C1	LINEAR STRIP	PRUDENTIAL LIGHTING: BPRO4-REC-FLSH-LED4-90-HO-4'-TMW-BTW-WTW-SC-UNV-X11-ECO	4'	LEDs / 4000K / 4739	MVOLT	42			RECESSED	LED DRIVER 0-10V DIMMING	4
C2	LINEAR STRIP	MARK LIGHTING: SLOT 4 SL4L 6 FLP 80CRI 35K 800LMF	4'	LEDs / 3500K / 3200 LUMENS	MVOLT	32	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	
C3	LINEAR STRIP	MARK LIGHTING: SLOT 4 SL4L 4 FLP 80CRI 35K 800LMF	6'	LEDs / 3500K / 4800 LUMENS	MVOLT	48	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	
D	TRACK LIGHTING	SEE DRAWINGS PROVIDED BY BARBAZON LIGHTING									
F1	LAY-IN CENTER ELEMENT FIXTURE, ADJUSTABLE LUMEN / SWITCHABLE LED COLOR	LITHONIA: STAKS 2X4 ALO6 SWW7 MEDIUM LUMEN 3500K	2'x4'x4"	LEDs / 3500K / 5000 LUMENS	MVOLT	40	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	1
F2	LAY-IN CENTER ELEMENT FIXTURE, ADJUSTABLE LUMEN / SWITCHABLE LED COLOR	LITHONIA: STAKS 2X4 ALO6 SWW7 HIGH LUMEN 3500K	2'x4'x4"	LEDs / 3500K / 6000 LUMENS	MVOLT	49	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	1
F3	LAY-IN CENTER ELEMENT FIXTURE	LITHONIA: STAK 2X4 7200LM 80CRI 35K COLT EZT	2'x4'x4"	LEDs / 3500K / 7000 LUMENS	MVOLT	55	ACRYLIC	WHITE/ ALUMINUM	RECESSED	LED DRIVER 0-10V DIMMING	4
G	24" UC STRIP LIGHT W/ INTEGRAL TOGGLE SWITCH	COMMERCIAL ELECTRIC	24"x 1.7"x 1.1"	LEDs / 4000K / 700 LUMENS	120V	11		WHITE	SURFACE		
H	PENDANT	WAC LIGHTING: ACTION 8"	8"x 2.4"DIA 1.1"	LED / 3000K / 573 LUMENS	120V	7.2		BLACK	PENDANT ADJUSTABLE 9"-141"	LED DRIVER DIMMING	6, 7
J.	LINEAR WALL WASHER UNIFIED GLARE RATING - UGR 17 WATTS-3.8/FT, LUMENS 225/FT	PRUDENTIAL LIGHTING: BPRO3-LIN-FLSH-LED4-90-LO-46'-FINISH-WWF_NU-SC-UNV-CA48-X3-DM01	46'	LED / 4000K / 10350 LUMENS	MVOLT	180		WHITE	RECESSED	LED DRIVER DIMMING	
K1	LED TAPE LIGHT, IP20 DRY DIMMABLE POWER SUPPLY, SURFACE MT IN TOE KICK, 4.8W / FT	LLI ARCH LIGHTING: LLI-FLX-S-F-CC4.4W-RGB-PWR-EF POWER SUPPLY: LL3DO-96W24V-U	14' RUN LENGTH	LED 4000K / 118 LMNS PER FT	120V	96		WHITE	SURFACE	LED DRIVER DIMMING	
X1	EXIT SIGN SINGLE FACE	LITHONIA: BE W R UN		LEDs	MVOLT	10	RED LETTERS MIRRORED	ALUMINUM	RECESSED CEILING/ WALL		
X2	EXIT SIGN DOUBLE FACE	LITHONIA: BE W R UN		LEDs	MVOLT	10	RED LETTERS MIRRORED	ALUMINUM	RECESSED CEILING/ WALL		

REMARKS:
1. 0-10V DIMMNING TO 10%
2. DAMP LOCATION
3. WET LOCATION
4. PROVIDE eldoLED 0-10V DIMMING
5. LED REQUIRED SURGE PROTECTION
6. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT
7. FINAL COLOR SELECTION BY ARCHITECT
8. CONTRACTOR MUST COORDINATE FINAL RUN LENGTH WITH CEILING FRAMING PRIOR TO ORDERING FIXTURE.

GENERAL NOTES:

A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
C. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
D. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
E. THE ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM THE ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN.
F. FIXTURES INSTALLED IN CEILINGS INDICATED ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE SHALL BE MANUFACTURER RATED "IC"..
G. ALL LIGHTING FIXTURES PENETRATING RATED FLOOR/CEILING ASSEMBLY SHALL BE PROVIDED WITH ACCESSORIES TO MAINTAIN ASSEMBLY FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RATINGS.
H. "NL" ADJACENT TO FIXTURE INDICATES AN UNSWITCHED 24 HOUR NIGHT LIGHT. THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED INDICATED CIRCUIT.
I. LED MODULES SHALL BE REPLACEABLE.
J. ACRYLIC PRISMATIC LENSES SHALL BE 0.125" NOMINAL MINIMUM THICKNESS.
K. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
L. LED EMERGENCY BATTERY SHALL PROVIDE FULL RATED FIXTURE OUTPUT FOR 90 MINUTES MINIMUM.
M. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.
N. THE FIRST FIXTURE NAMED IN THE MANUFACTURER COLUMN IS THE BASIS OF DESIGN. OTHER FIXTURES ARE SIMILAR IN THE OPINION OF THE ARCHITECT AND ENGINEER. IF THE CONTRACTOR ELECTS TO SUBMIT A FIXTURE OTHER THAN THE BASIS OF DESIGN FIXTURE, INCLUDING ONE OF THE TWO SIMILAR FIXTURES, REQUIREMENTS OF NOTES O. AND P. APPLY. THE ABOVE FIXTURE TYPES ARE LISTED AS THE DESIGN BASIS.
O. LIGHTING FIXTURES HAVE BEEN SELECTED AND SPECIFIED TO ACHIEVE REQUIRED/DESIRED ILLUMINATION LEVELS AND OTHER CHARACTERISTICS IN THEIR RESPECTIVE AREAS. SPECIFIED FIXTURES HAVE SPECIFIC CHARACTERISTICS WHICH MAY CREATE UNIQUE ILLUMINATION RESULTS ESSENTIAL TO THE PROJECT. LIGHTING FIXTURES PROVIDED SHALL MEET THE ASTHETICS, DETAILS, AND SPECIFICATIONS STATED ABOVE AND IN THE DIVISION 26 SPECIFICATIONS, AND MOUNTING HEIGHTS AND SPACINGS SHOWN ON THE DRAWINGS. ANY DEVIATIONS FROM THE SPECIFIED FIXTURES SHALL DEEM ALL PARTIES IN THE SUPPLY CHAIN AND CONTRACTOR RESPONSIBLE FOR PROVIDING DETAILED COMPARISONS OF THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE FOR ARCHITECT AND ENGINEER REVIEW IN DETERMINING EQUALITY. PROVIDE COMPLETE POINT BY POINT ILLUMINATION STUDIES FOR ALL SUBSTITUTIONS.
P. SUBSTITUTIONS MAY BE APPROVED BY THE ARCHITECT AND ENGINEER IF THEY ARE JUDGED TO BE EQUAL TO THE SPECIFIED FIXTURES. "EQUAL" MAY INCLUDE, AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER, LENS MATERIAL AND CHARACTERISTICS, COLORS, REFLECTORS, HOUSING MATERIAL AND CONFIGURATION, FINISHES, PHOTOMETRICS, EFFICIENCY, OPTIONS, FUNCTIONALITY, ETC.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN CRIBB
10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

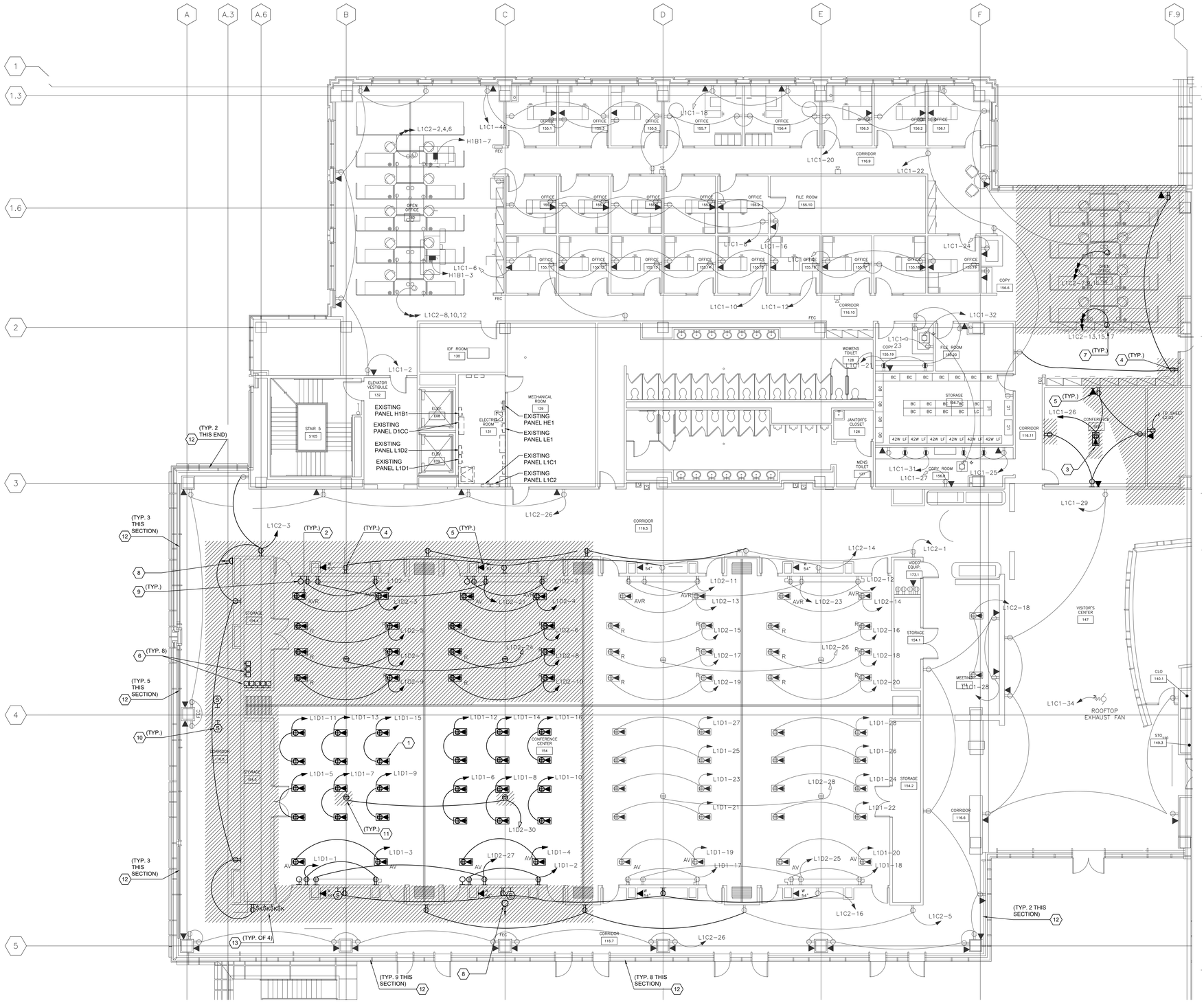
Δ	DATE	DESCRIPTION

SHEET NAME:
RISER DIAGRAM AND SCHEDULES

ORIG SUBMISSION: 2024.10.29

SHEET: E-602

100% PERMIT SET



A1 **LEVEL 1 FLOOR PLAN - AREA "A"**
1/8" = 1'-0"

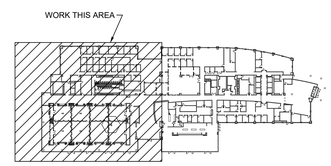
PLAN NORTH

GENERAL NOTES

1. DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT SPECIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST REMAIN OPERATIONAL.
2. DEVICES NOT INDICATED BY HATCHING ARE FOR REFERENCE ONLY AND ARE TO REMAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTLETS, WALL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL DURING AND AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FLOOR BOX: BOXES NOT INDICATED BY HATCHING, VERIFY POWER AND DATA CONNECTIONS ARE PROTECTED THROUGHOUT THE DEMOLITION AND CONSTRUCTION PHASES. THE ELECTRICAL CONTRACTOR MUST VERIFY THAT BOTH POWER AND DATA ARE FULLY OPERATIONAL UPON COMPLETION OF THE CONSTRUCTION. IF ANY DEVICES ARE FOUND TO BE NON-OPERATIONAL, THEY MUST BE RESTORED TO FULL FUNCTIONALITY.
2. FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS FOR POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS, CONDUIT AND CABLES TO SOURCE. CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF. CONTRACTOR MUST STORE AND PROTECT (5) FLOOR BOXES REMOVED FROM RAISED FLOOR SYSTEM FOR REUSE, SEE EP401 FOR LOCATIONS.
3. FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS FOR POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS, CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF.
4. RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND PROTECT BREAKER FOR REUSE.
5. WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE AND CONDUIT COMPLETE TO SOURCE.
6. DRAPER SHADE CONTROLLER: CONTRACTOR MUST REMOVE CONTROLLER AND PROTECT FOR RELOCATION TO MECH RM 129, SEE EP401 FOR LOCATION.
7. FURNITURE: REMOVE THE POWER POLE AND ALL WIRING AND EQUIPMENT ASSOCIATED WITH THE DEMOLISHED FURNITURE, VERIFY THAT ALL CIRCUITS ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTIRETY. PROTECT BREAKERS FOR POTENTIAL REUSE, IF OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL UPSTREAM AND DOWNSTREAM DEVICES MUST BE OPERATIONAL AFTER DEMOLITION IS COMPLETE.
8. CAMERA: COORDINATE REMOVAL OF CAMERA WITH OWNER PRIOR TO START OF DEMOLITION WORK. REMOVE CAMERA AND DELIVER TO OWNER, PROTECT CABLE FOR REUSE, SEE EP401 FOR LOCATION.
9. CRESTRON AV CONNECTIONS: REMOVE WALL PLATE AND BOX, REMOVE CONDUIT AND ALL CABLING TO SOURCE.
10. SPEAKERS: CONTRACTOR MUST REMOVE SPEAKER AND DELIVER TO OWNER, REMOVE SPEAKER CABLE TO NEAREST SPEAKER NOT BEING DEMOLISHED, ALL UPSTREAM AND DOWNSTREAM SPEAKERS MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
11. CEILING MOUNTED PROJECTOR: REMOVE RECEPTACLE, FACE PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE. REMOVE LV CABLE COMPLETE TO SOURCE.
12. SHADES MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRUCTION, CONTRACTOR MUST VERIFY QUANTITY OF SHADES ON EACH CIRCUIT PRIOR TO START OF DEMOLITION.
13. SHADE CONTROL SWITCHES: CONTRACTOR MUST REMOVE SHADE CONTROLS AND PROTECT FOR RE-INSTALLATION, REMOVE CONTROL CABLES TO ABOVE CEILING AND PROTECT FOR RECONNECTION TO RELOCATED SHADE CONTROL SWITCHES. CONTRACTOR MUST VERIFY QUANTITY OF SHADES ON EACH CIRCUIT PRIOR TO START OF DEMOLITION. SEE EP401 FOR LOCATION.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

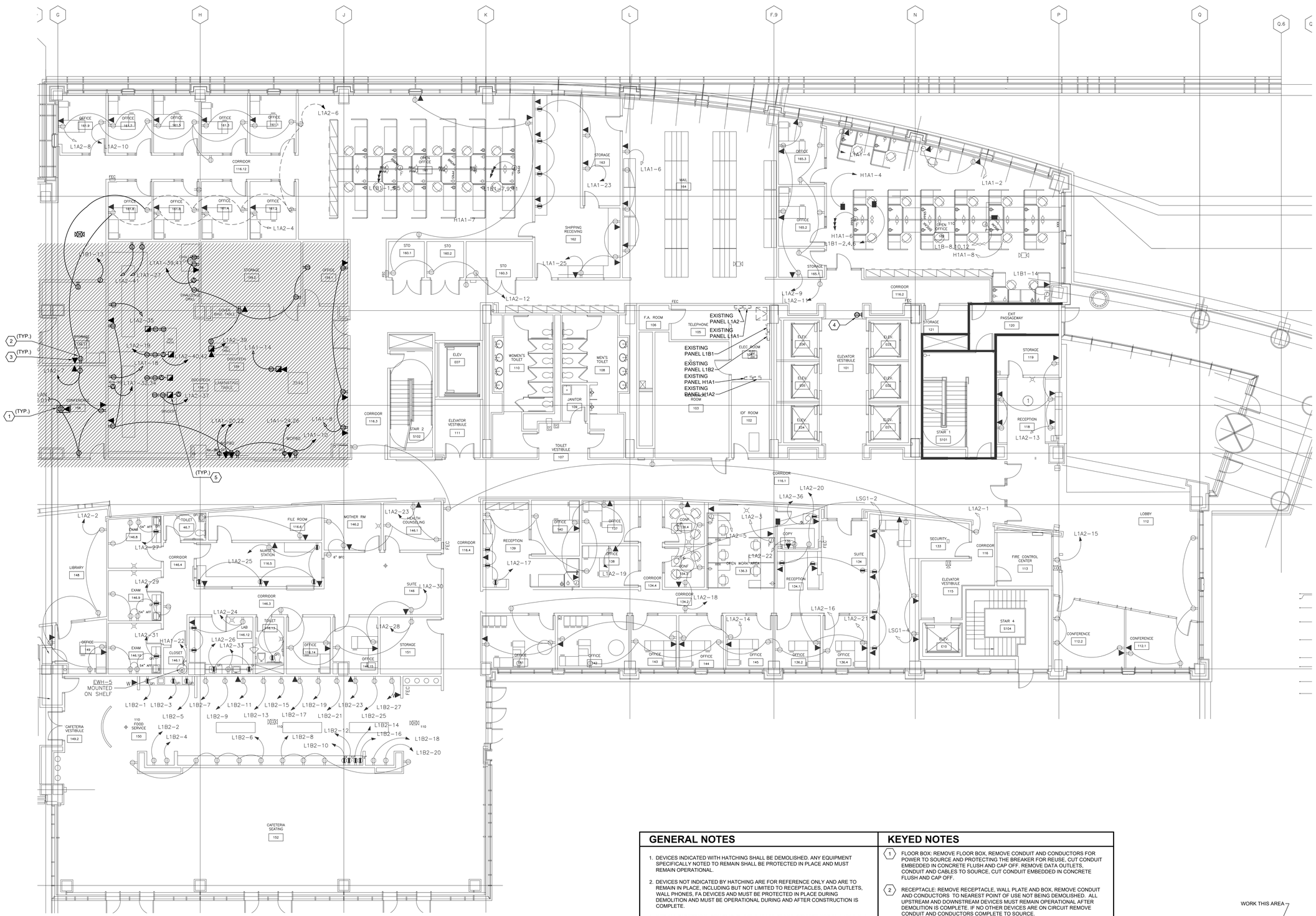
SHEET NAME:
ELECTRICAL
LEVEL 1 FLOOR PLAN
AREA "A"
DEMOLITION
ORIG SUBMISSION: 2024.10.29

SHEET:
ED101

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCHITECTURAL SHEETS ORIGINAL PAPER SIZE

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PAPER SIZE



A1 **LEVEL 1 FLOOR PLAN - AREA "B"**
1/8" = 1'-0"

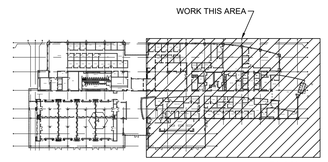
PLAN NORTH

GENERAL NOTES

1. DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT SPECIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST REMAIN OPERATIONAL.
2. DEVICES NOT INDICATED BY HATCHING ARE FOR REFERENCE ONLY AND ARE TO REMAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTLETS, WALL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL DURING AND AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS FOR POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF, REMOVE DATA OUTLETS, CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCRETE FLUSH AND CAP OFF.
2. RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE.
3. WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE AND CONDUIT COMPLETE TO SOURCE.
4. RECEPTACLE: PROTECT IN PLACE.
5. FURNITURE: REMOVE THE POWER POLE AND ALL WIRING AND EQUIPMENT ASSOCIATED WITH THE DEMOLISHED FURNITURE, VERIFY THAT ALL CIRCUITS ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTIRETY. PROTECT BREAKERS FOR POTENTIAL REUSE, IF OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL UPSTREAM AND DOWNSTREAM DEVICES MUST BE OPERATIONAL AFTER DEMOLITION IS COMPLETE.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LEVEL 1 FLOOR PLAN
AREA "B"
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED102

100% PERMIT SET

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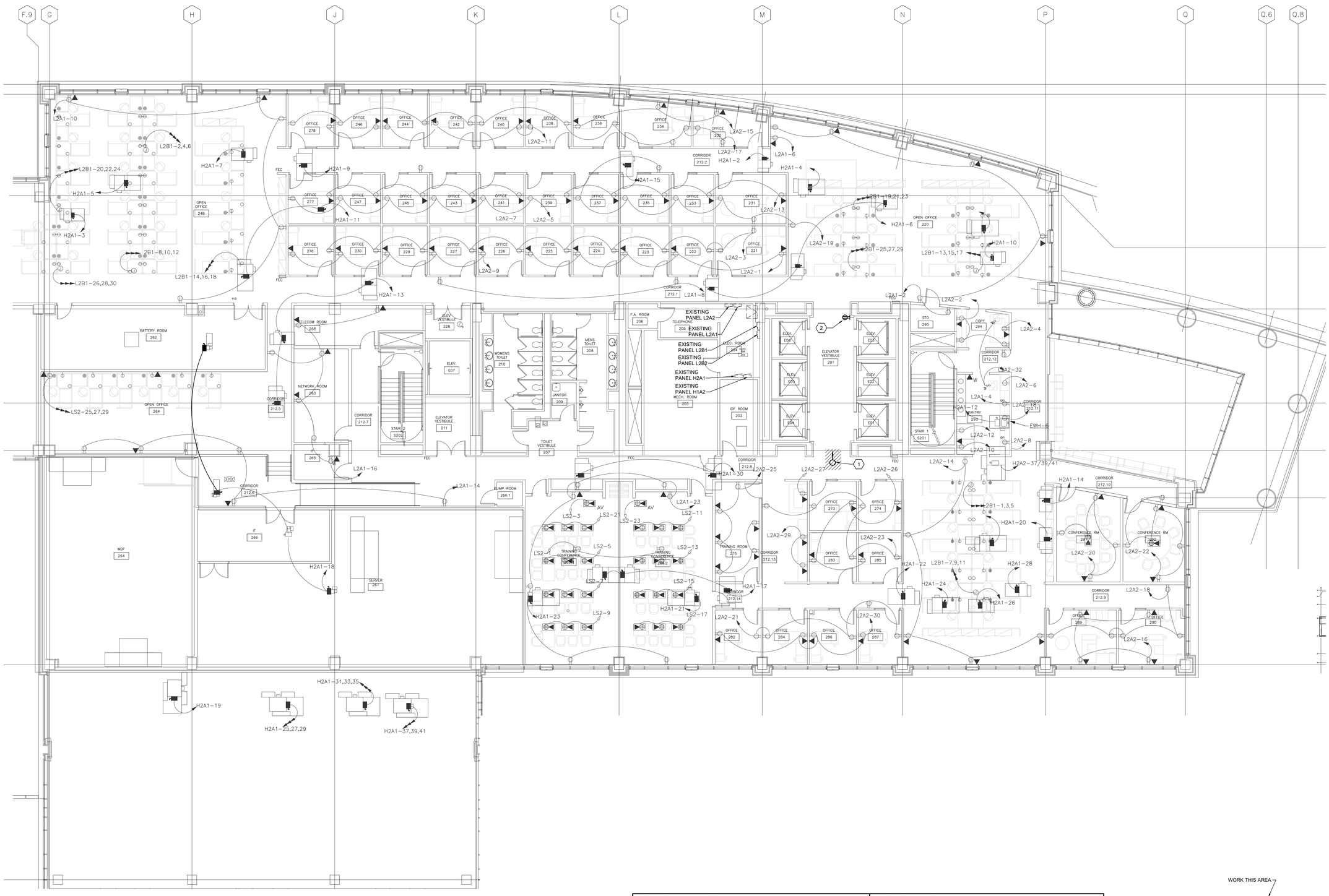


A1 **LEVEL 2 FLOOR PLAN - AREA "B"**
1/8" = 1'-0"

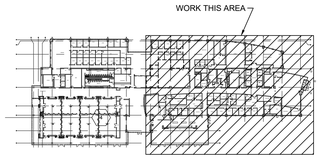
PLAN NORTH

GENERAL NOTES

1. DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT SPECIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST REMAIN OPERATIONAL.
2. DEVICES NOT INDICATED BY HATCHING ARE FOR REFERENCE ONLY AND ARE TO REMAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTLETS, WALL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL DURING AND AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. CEILING MOUNTED CAMERA: COORDINATE WITH OWNERS SECURITY VENDOR TO RELOCATE CAMERA, SEE A5 / EP403 FOR LOCATION.
2. RECEPTACLE: PROTECT IN PLACE.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LEVEL 2 FLOOR PLAN
AREA "B"
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED103

100% PERMIT SET

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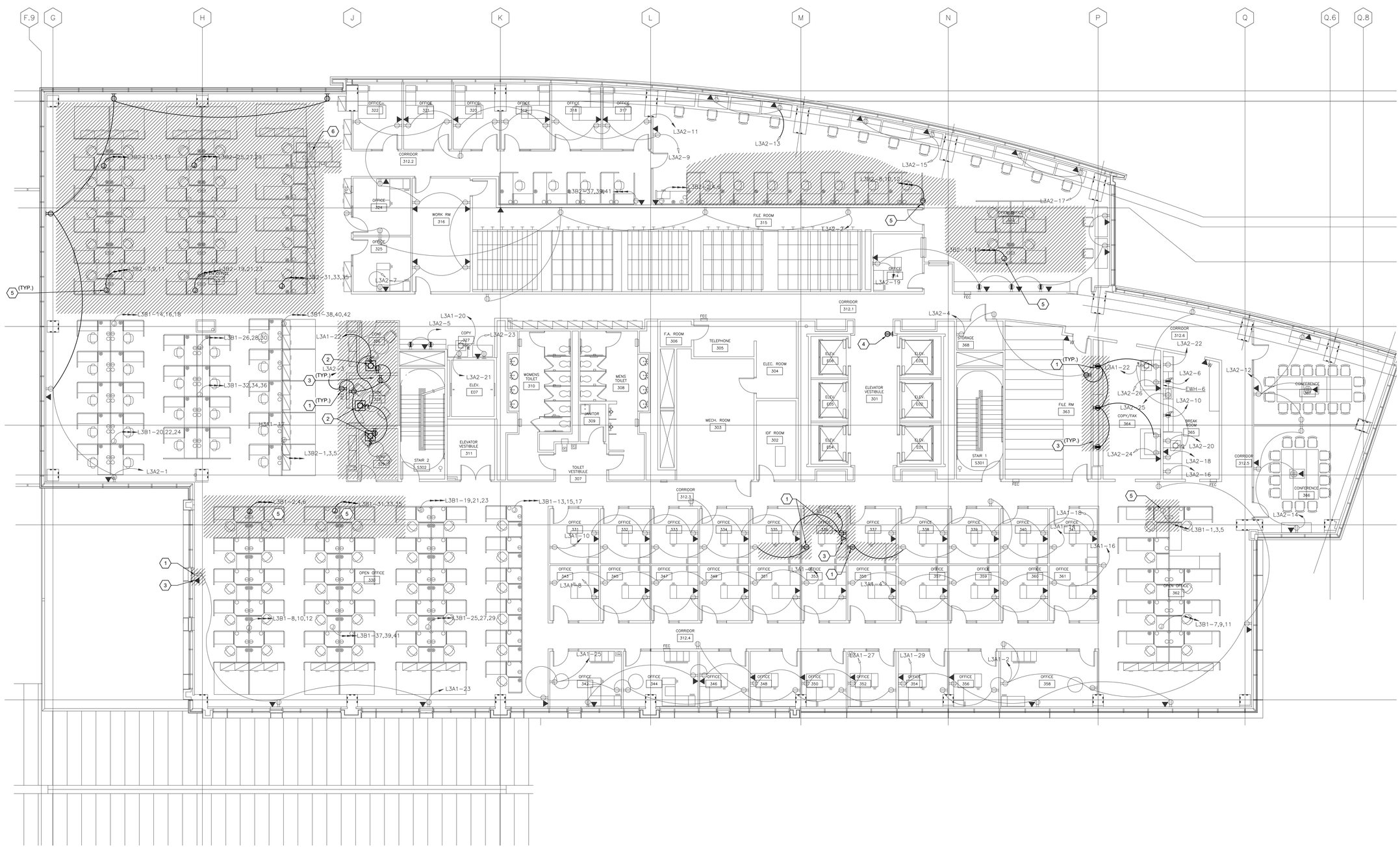

B1 LEVEL 3 FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT SPECIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST REMAIN OPERATIONAL.
2. DEVICES NOT INDICATED BY HATCHING ARE FOR REFERENCE ONLY AND ARE TO REMAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTLETS, WALL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO NEAREST POINT OF USE. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND PROTECT BREAKER FOR REUSE.
2. EXHAUST FAN: REMOVE DISCONNECT, REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND LABEL BREAKER SPARE.
3. WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE AND CONDUIT COMPLETE TO SOURCE.
4. RECEPTACLE: PROTECT IN PLACE.
5. FURNITURE: REMOVE THE POWER POLE AND ALL WIRING AND EQUIPMENT ASSOCIATED WITH THE DEMOLISHED FURNITURE, VERIFY THAT ALL CIRCUITS ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTIRETY. PROTECT BREAKERS FOR POTENTIAL REUSE. IF OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL UPSTREAM AND DOWNSTREAM DEVICES MUST BE OPERATIONAL AFTER DEMOLITION IS COMPLETE.
6. MECHANICAL EQUIPMENT: COORDINATE EXTENT OF ELECTRICAL WORK WITH MECHANICAL DRAWINGS, MUST VERIFY CIRCUIT PRIOR TO DEMOLITION, RELOCATE DISCONNECT AS REQUIRED TO PROVIDE COMPLETE OPERATING SYSTEM, SEE EP405 FOR RELOCATED UNIT.

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NORTH CAROLINA

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Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LEVEL 3 FLOOR PLAN
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED104

100% PERMIT SET

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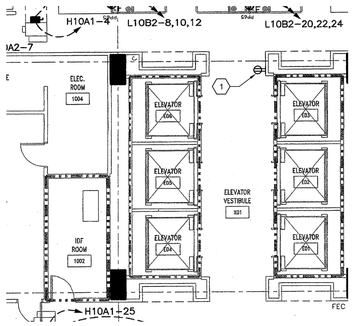
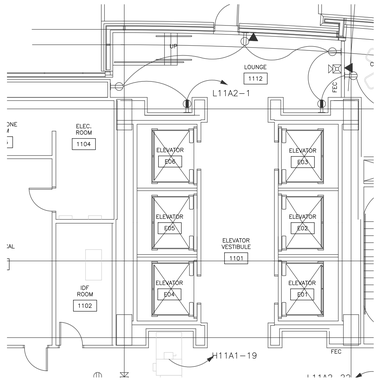
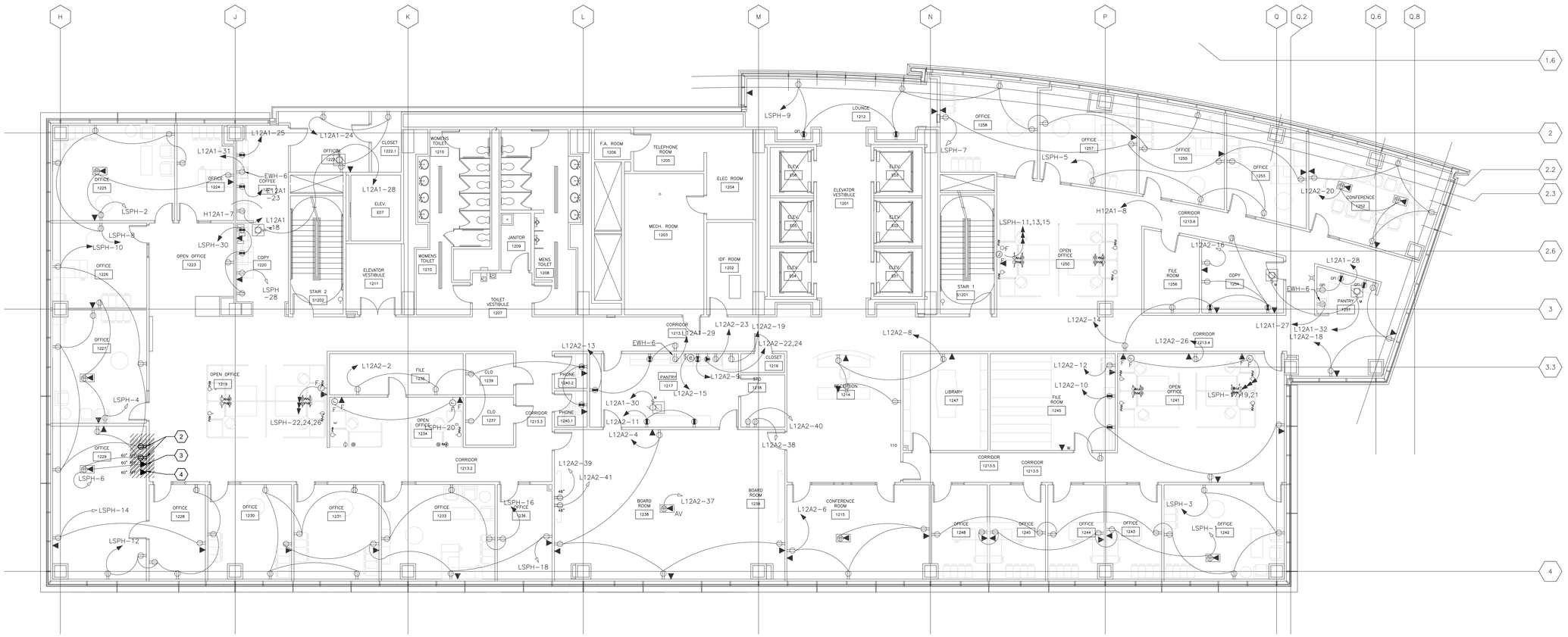


D1 **LEVEL 10 FLOOR PLAN**
1/8" = 1'-0"



D2 **LEVEL 11 FLOOR PLAN**
1/8" = 1'-0"



C1 **LEVEL 12 FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

1. DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT SPECIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST REMAIN OPERATIONAL.
2. DEVICES NOT INDICATED BY HATCHING ARE FOR REFERENCE ONLY AND ARE TO REMAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTLETS, WALL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. RECEPTACLE: PROTECT IN PLACE.
2. RECEPTACLE: CONTRACTOR MUST VERIFY CIRCUIT PRIOR TO DEMOLITION, REMOVE RECEPTACLE, WALL PLATE AND BOX, DISCONNECT CONDUIT AND CONDUCTORS AND PROTECT FOR EXTENSION TO NEW LOCATION. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
3. WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE FROM WALL BOX TO ABOVE CEILING AND REMOVE CABLE FROM WALL BOX TO FLOOR BOX AND PROTECT BOTH FOR REUSE. PROTECT CONDUIT FROM FLOOR BOX TO WALL FOR REUSE.
4. WALL MOUNTED CATV: REMOVE WALL BOX, REMOVE CABLE TO ABOVE CEILING AND PROTECT CONDUIT FOR REUSE.

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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

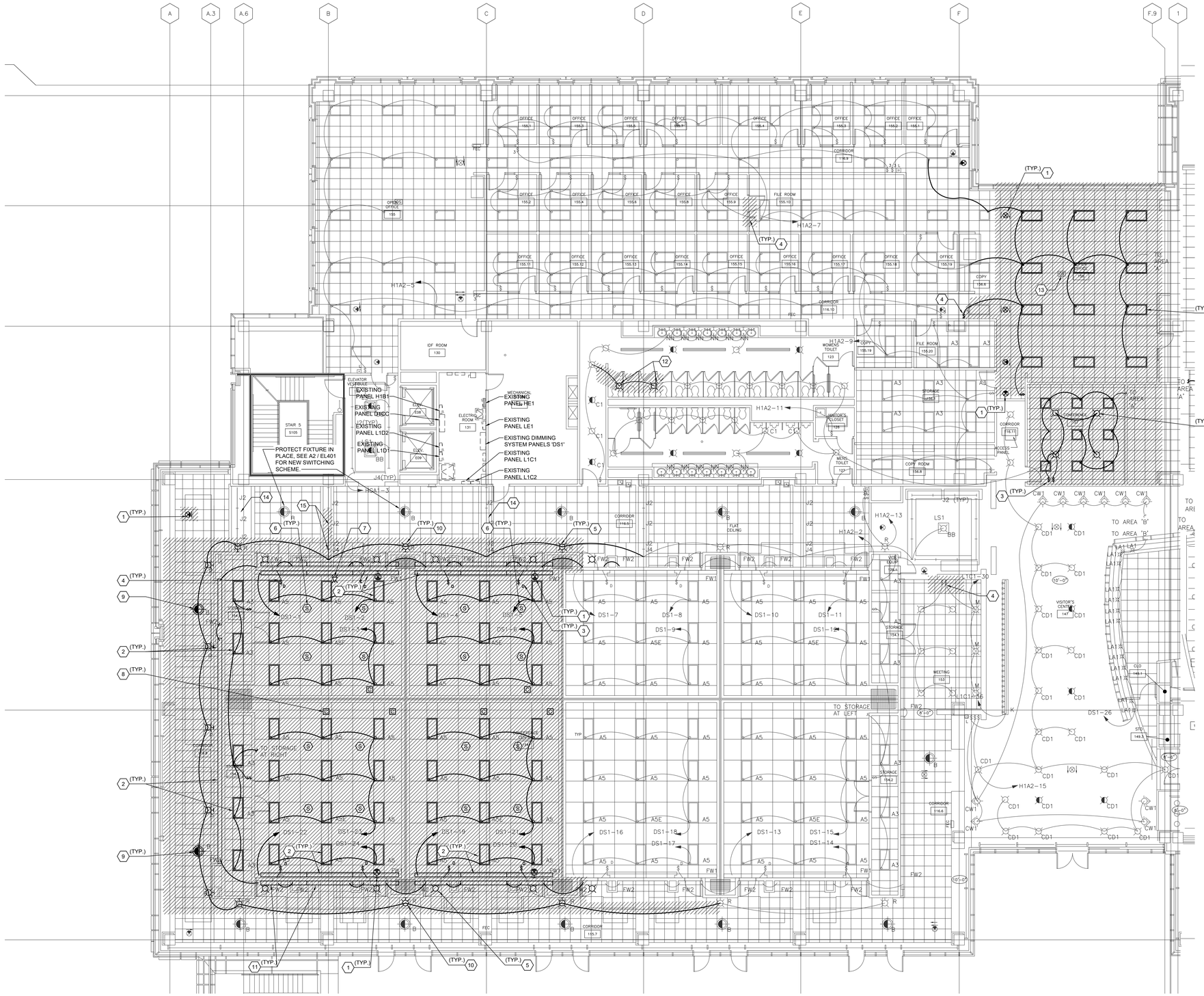
Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LEVEL 10 FLOOR
PLAN DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED105

100% PERMIT SET

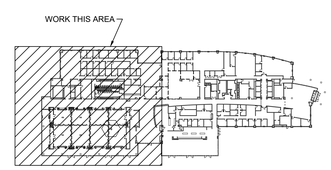


GENERAL NOTES

1. LIGHT FIXTURES, SWITCHES AND SENSORS INDICATED WITH HATCHING SHALL BE DEMOLISHED. LIGHTS SPECIFICALLY NOTED TO REMAIN SHALL REMAIN OPERATIONAL AND PROTECTED DURING DEMOLITION.
2. DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES AND SENSORS MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. FIXTURES, SWITCHES AND SENSORS NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. EXIT LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
2. LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED OR TO SOURCE IF NO OTHER LIGHTS ARE ON CIRCUIT. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
3. SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE.
4. SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE, FIXTURE AND LIGHTING CIRCUIT MUST BE PROTECTED.
5. RECESSED CANS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
6. CEILING SPEAKERS: REMOVE SPEAKER, REMOVE SPEAKER WIRE TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED, ALL SPEAKERS NOT BEING DEMOLISHED MUST REMAIN OPERATION AFTER DEMOLITION IS COMPLETE.
7. WAP: REMOVE AND DELIVER TO OWNER, REMOVE CABLE TO SOURCE.
8. CEILING MOUNTED LIGHTING CONTROLS: REMOVE CONDUIT AND CONDUCTORS TO NEAREST CONTROL NOT BEING DEMOLISHED, CEILING CONTROLS AND LIGHTING CIRCUIT NOT BEING DEMOLISHED MUST BE PROTECTED DURING DEMOLITION.
9. PENDANT FIXTURE: REMOVE LIGHT AND PROTECT FOR REUSE, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
10. WALL SCONCE: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
11. STRIP LIGHT: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
12. RECESSED CAN: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE. SEE LIGHTING PLAN E402 FOR REVISED LIGHTING LAYOUT AND SWITCHING.
13. CEILING MOUNTED OCCUPANCY SENSORS: REMOVE SENSOR, REMOVE CABLE TO NEAREST JUNCTION POINT.
14. PROTECT J2 FIXTURES LOCATED ON TOP OF BULKHEAD.
15. PROTECT (1) J2 FIXTURES, REMOVE (2) J2 FIXTURE AND (1) J4 FIXTURE LOCATED ON TOP OF BULKHEAD, SEE A2 / EL401 FOR NEW SWITCHING SCHEME.



A5 KEY PLAN
NOT TO SCALE
PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LEVEL 1 FLOOR PLAN
AREA "A"
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED106

100% PERMIT SET

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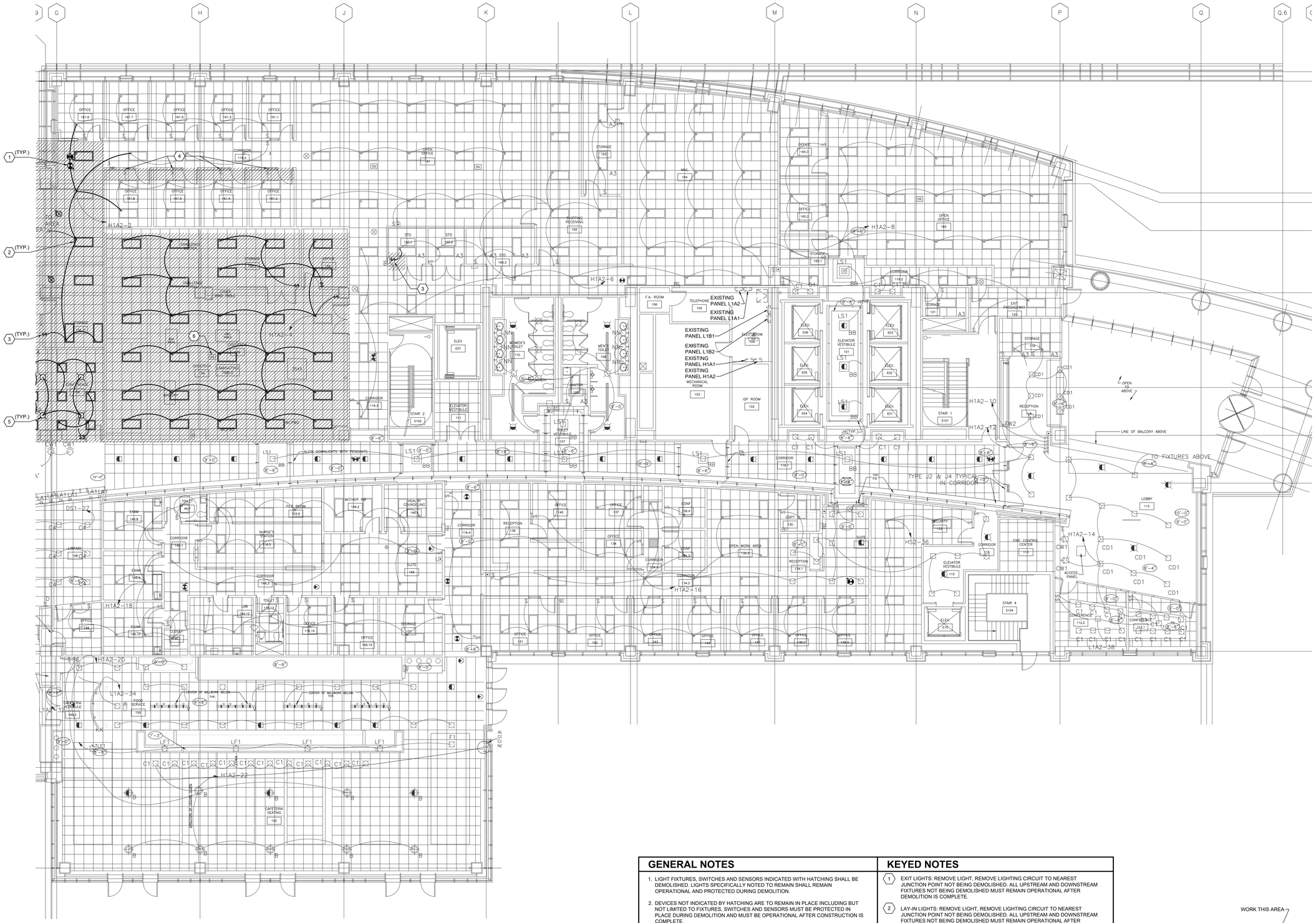
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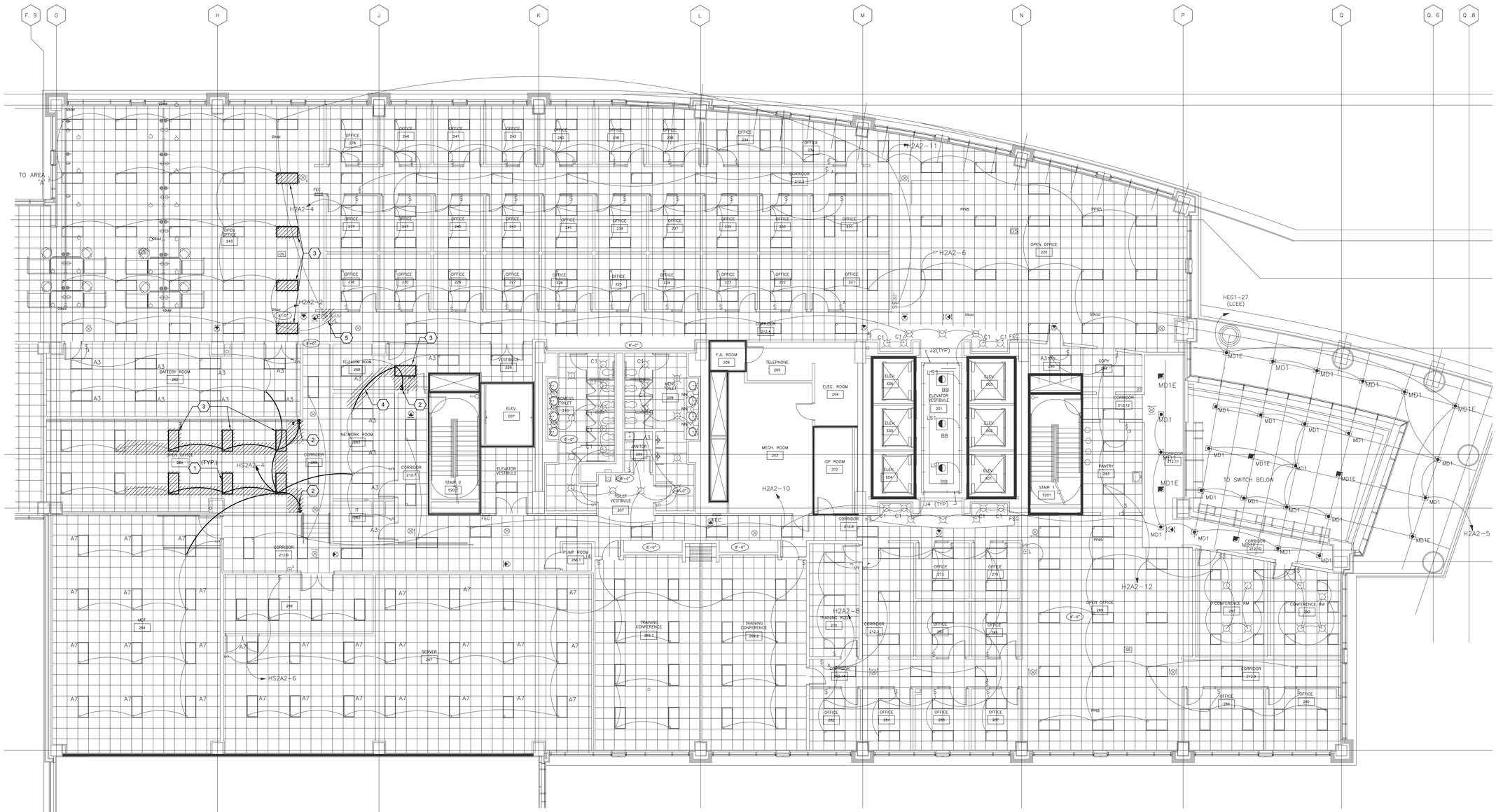
H1A2-60
H1A2-62
H1A2-64
H1A2-66
H1A2-68
H1A2-70
H1A2-72
H1A2-74
H1A2-76
H1A2-78
H1A2-80
H1A2-82

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



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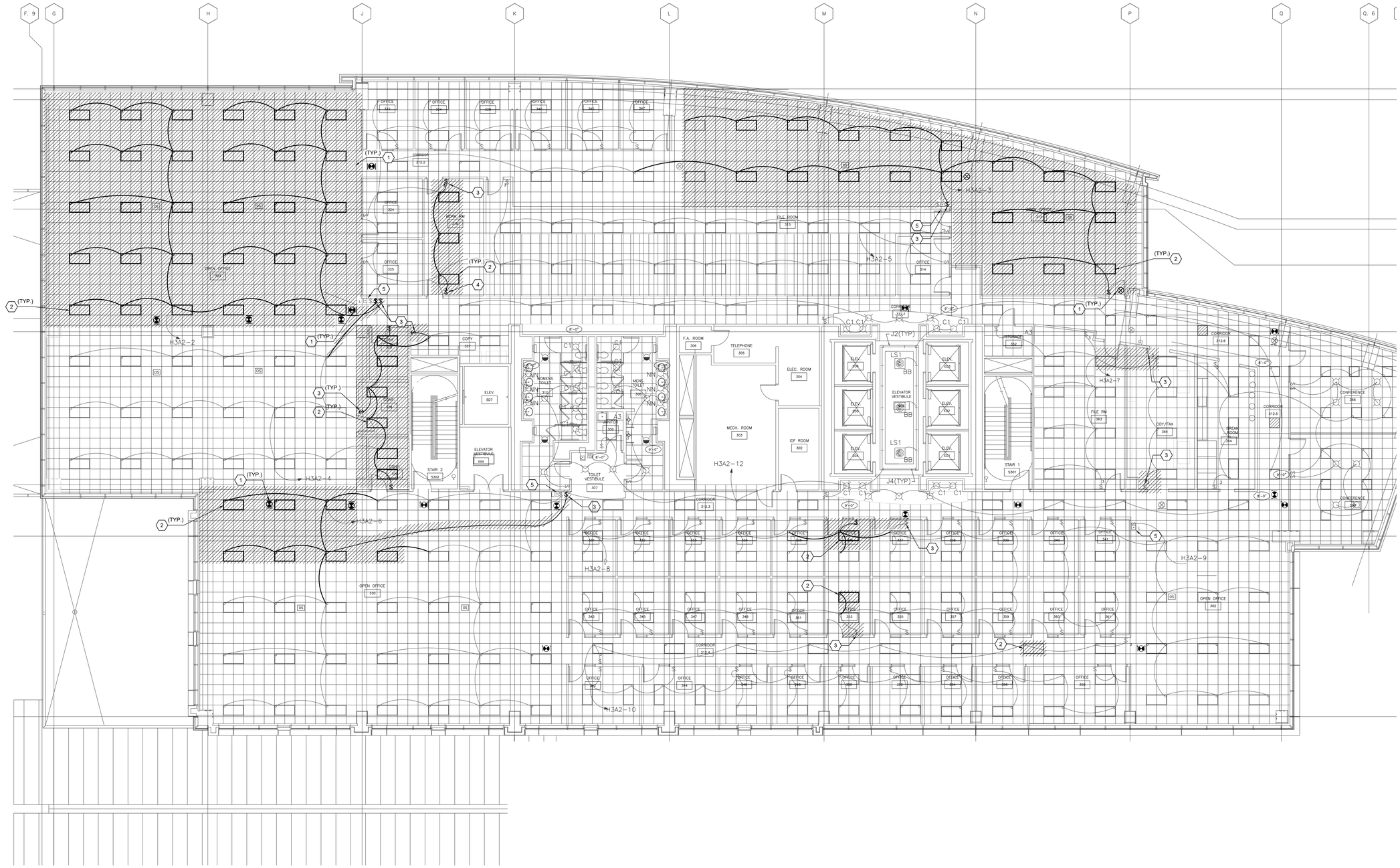


B1 LEVEL 3 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

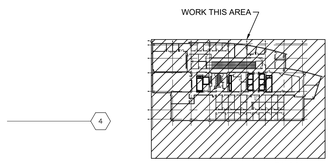
PLAN NORTH

GENERAL NOTES

1. LIGHT FIXTURES, SWITCHES AND SENSORS INDICATED WITH HATCHING SHALL BE DEMOLISHED. LIGHTS SPECIFICALLY NOTED TO REMAIN SHALL REMAIN OPERATIONAL AND PROTECTED DURING DEMOLITION.
2. DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES AND SENSORS MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. FIXTURES, SWITCHES AND SENSORS NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. EXIT LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
2. LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
3. SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE, FIXTURE TO REMAIN PROTECTED IN PLACE.
4. SWITCH: REMOVE SWITCH AND WALL PLATE, PROTECT BOX, CONDUIT AND CONDUCTORS TO FIXTURE.
5. PROTECT CRESTRON SWITCH IN PLACE DURING DEMOLITION AND CONSTRUCTION.



A5 KEY PLAN

NOT TO SCALE

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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

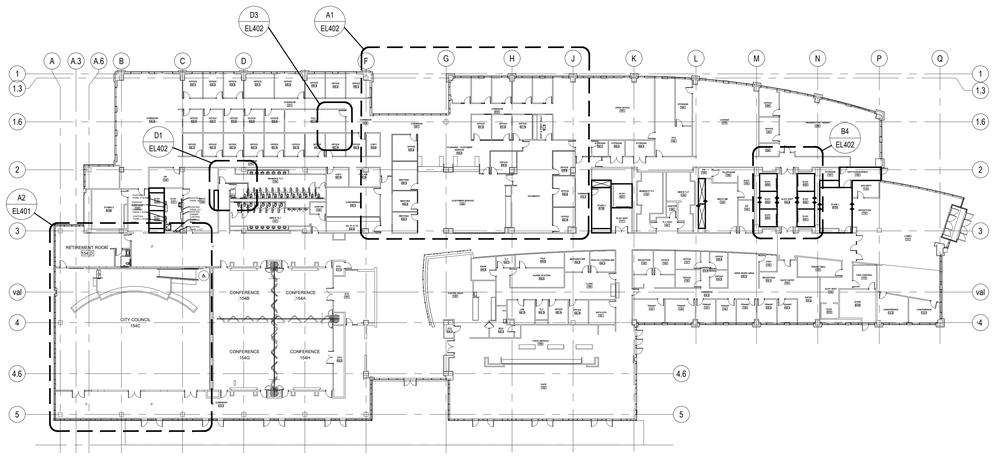
SHEET NAME:
ELECTRICAL
LEVEL 3 FLOOR PLAN
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
ED109

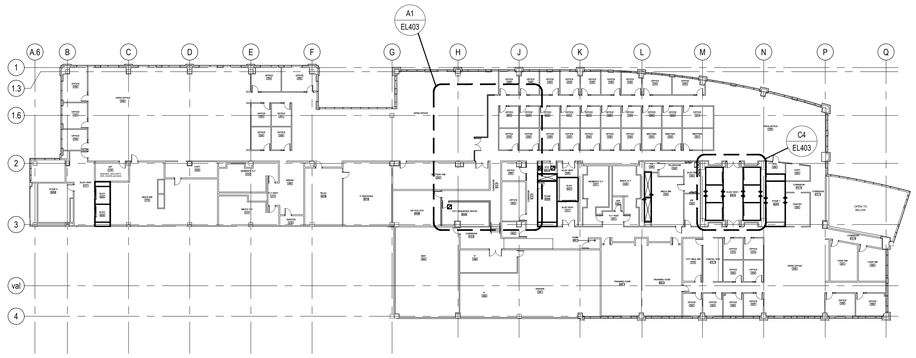
100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



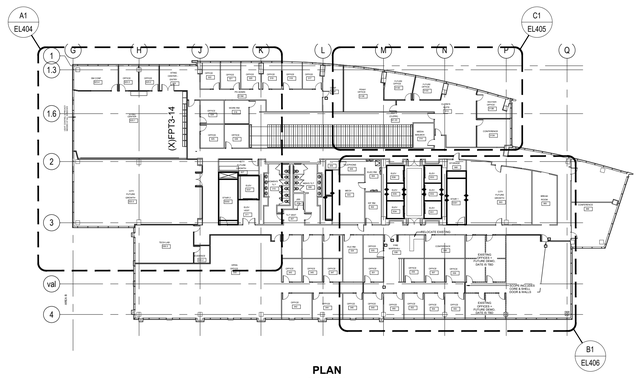
D1 FLOOR PLAN - LEVEL 1
1" = 30'-0"

PLAN NORTH



B1 FLOOR PLAN - LEVEL 2
1" = 30'-0"

PLAN NORTH



A2 FLOOR PLAN - LEVEL 3
1" = 30'-0"

PLAN NORTH

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

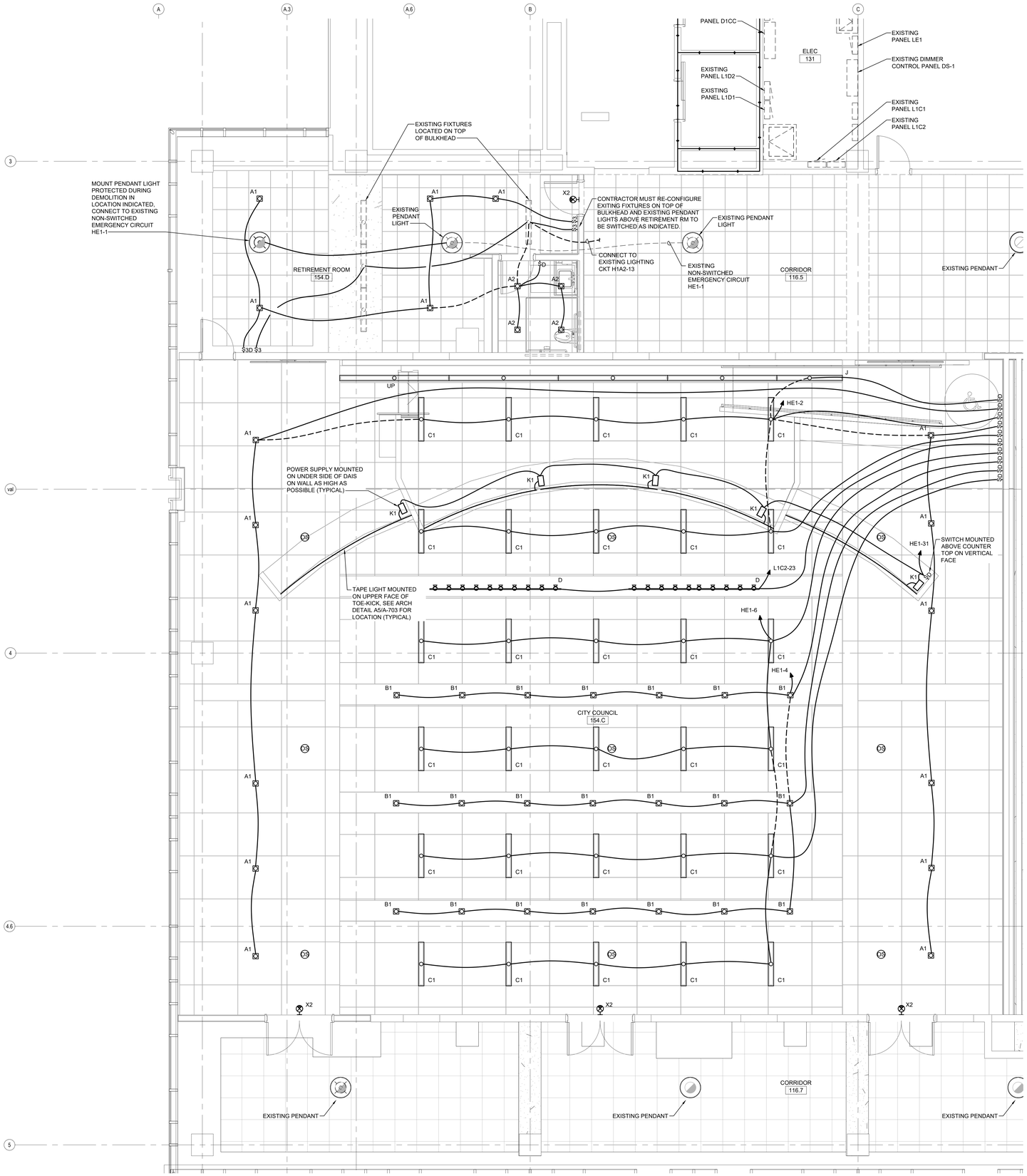
SHEET NAME:
ELECTRICAL
LEVELS
1, 2 AND 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EL101

100% PERMIT SET

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



A2 **ENL. PLAN COUNCIL CHAMBERS 154C**
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

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SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
EL401

100% PERMIT SET

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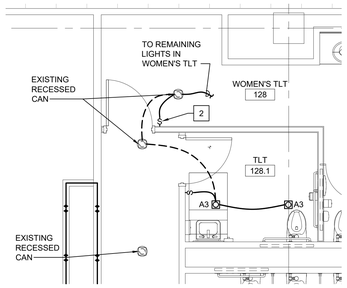
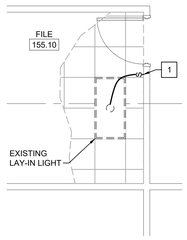
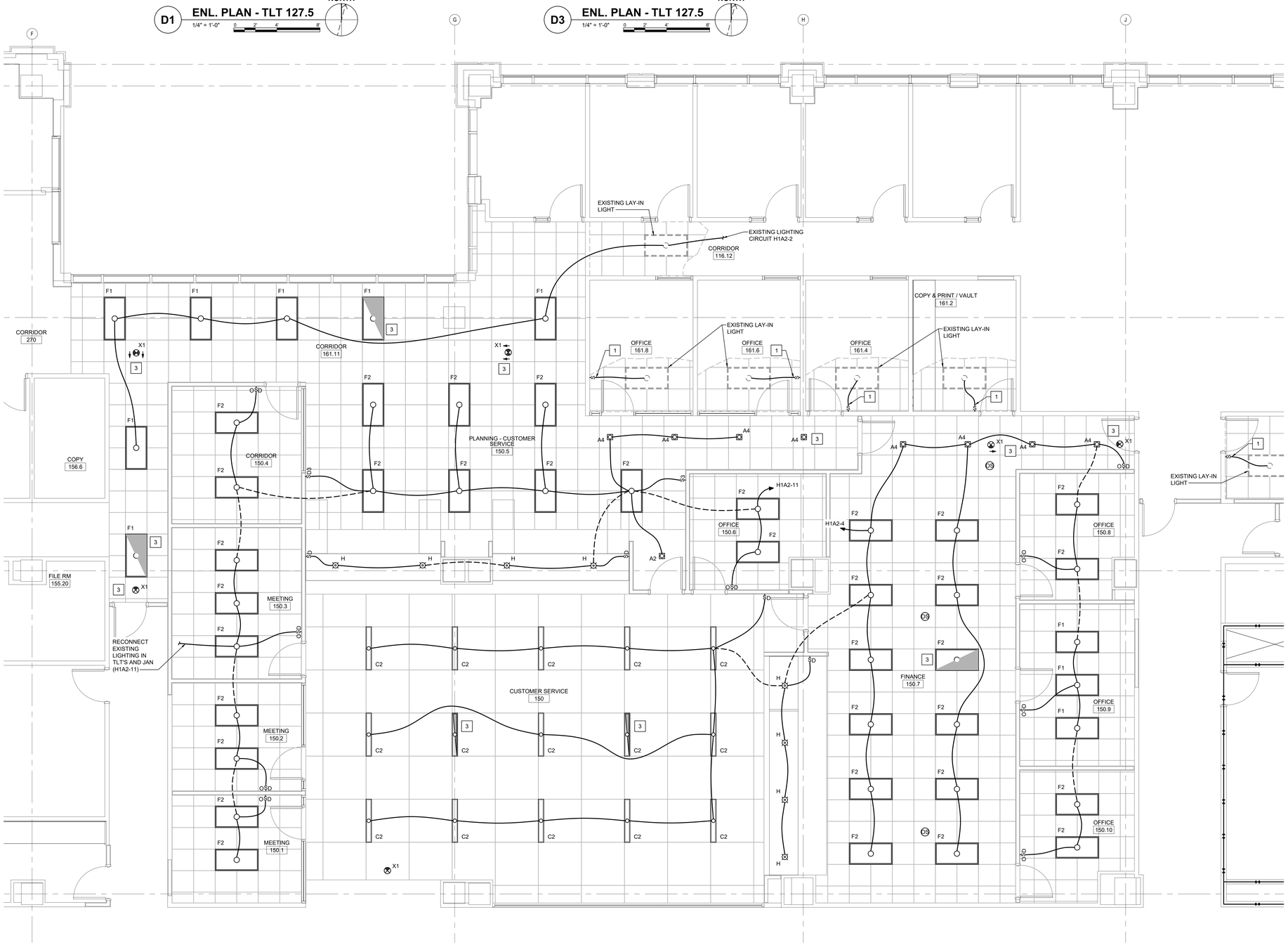


D1 ENL. PLAN - TLT 127.5
1/4" = 1'-0"



D3 ENL. PLAN - TLT 127.5
1/4" = 1'-0"



A1 ENL. PLAN CUSTOMER SERVICE
1/4" = 1'-0"

KEYED NOTES

1. PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
2. PROVIDE SWITCH, LIGHT(S) IN WOMEN'S TLT [2128] MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
3. FIXTURE MUST BE FED FROM LIFE SAFETY CIRCUIT HE1-1 THIS FLOOR.

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
EL402

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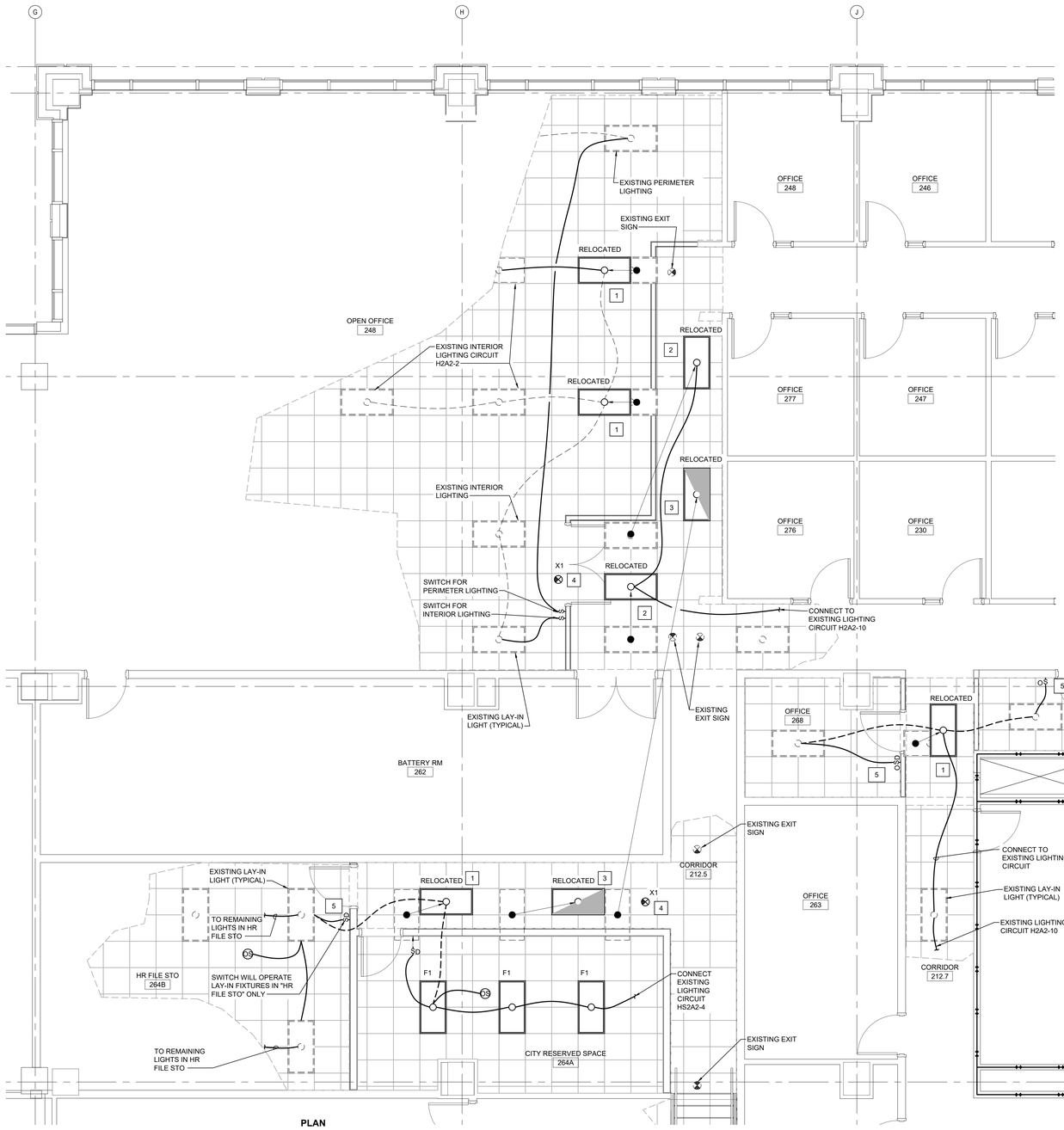
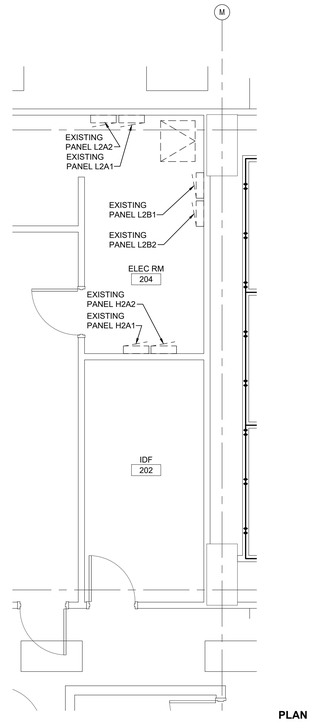


A1 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH



C4 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1. LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, FIXTURE MUST BE CONNECTED TO EXISTING LIGHTING CIRCUIT IT WAS CONNECTED TO PRIOR TO RELOCATION.
2. LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT INDICATED, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
3. LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
4. EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
5. PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 2

ORIG SUBMISSION: 2024.10.29

SHEET:
EL403

100% PERMIT SET

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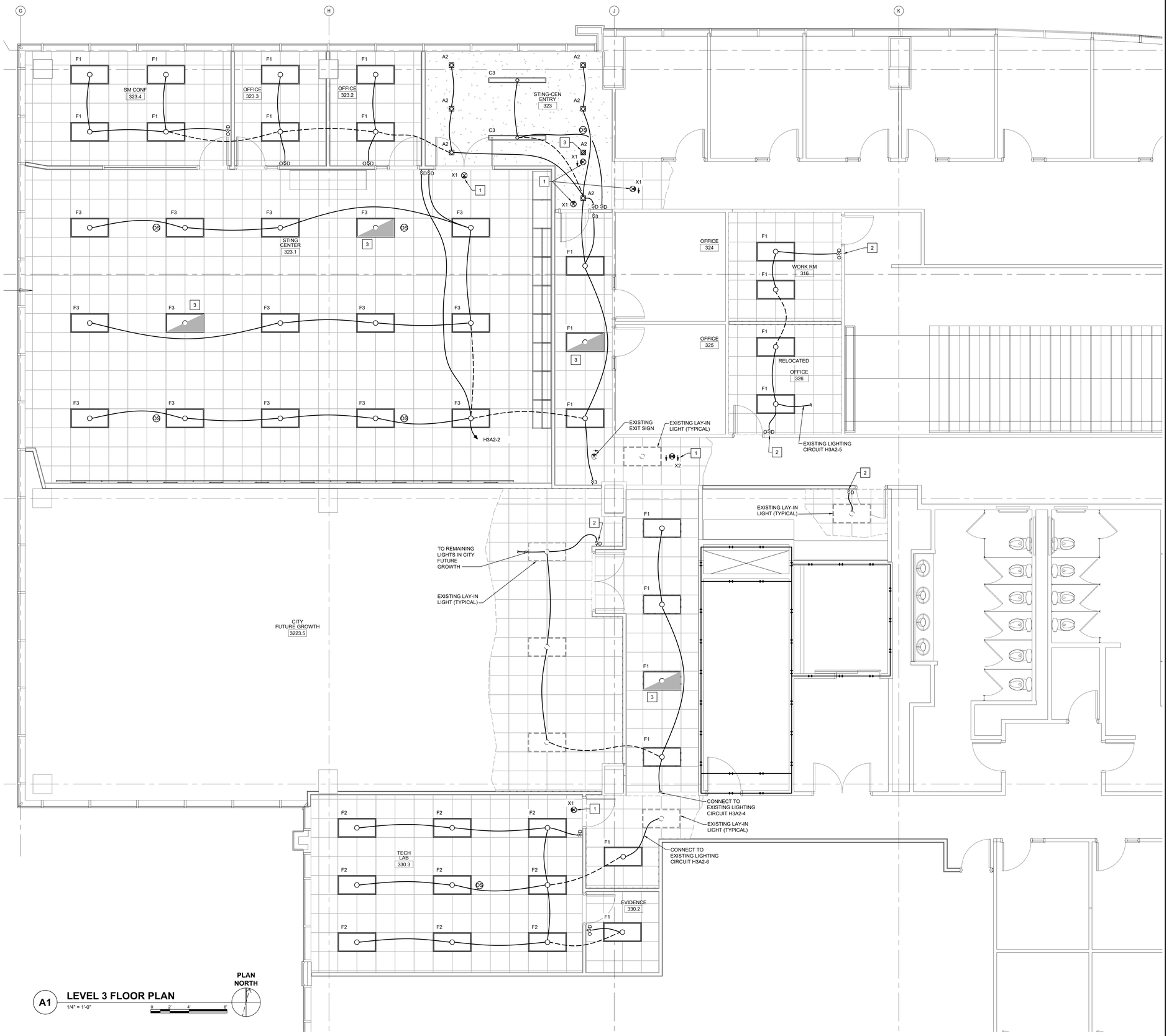

A1 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1. EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
2. PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
3. LAY-IN FIXTURE, CONNECT FIXTURE TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL ENL. PLAN LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EL404

100% PERMIT SET

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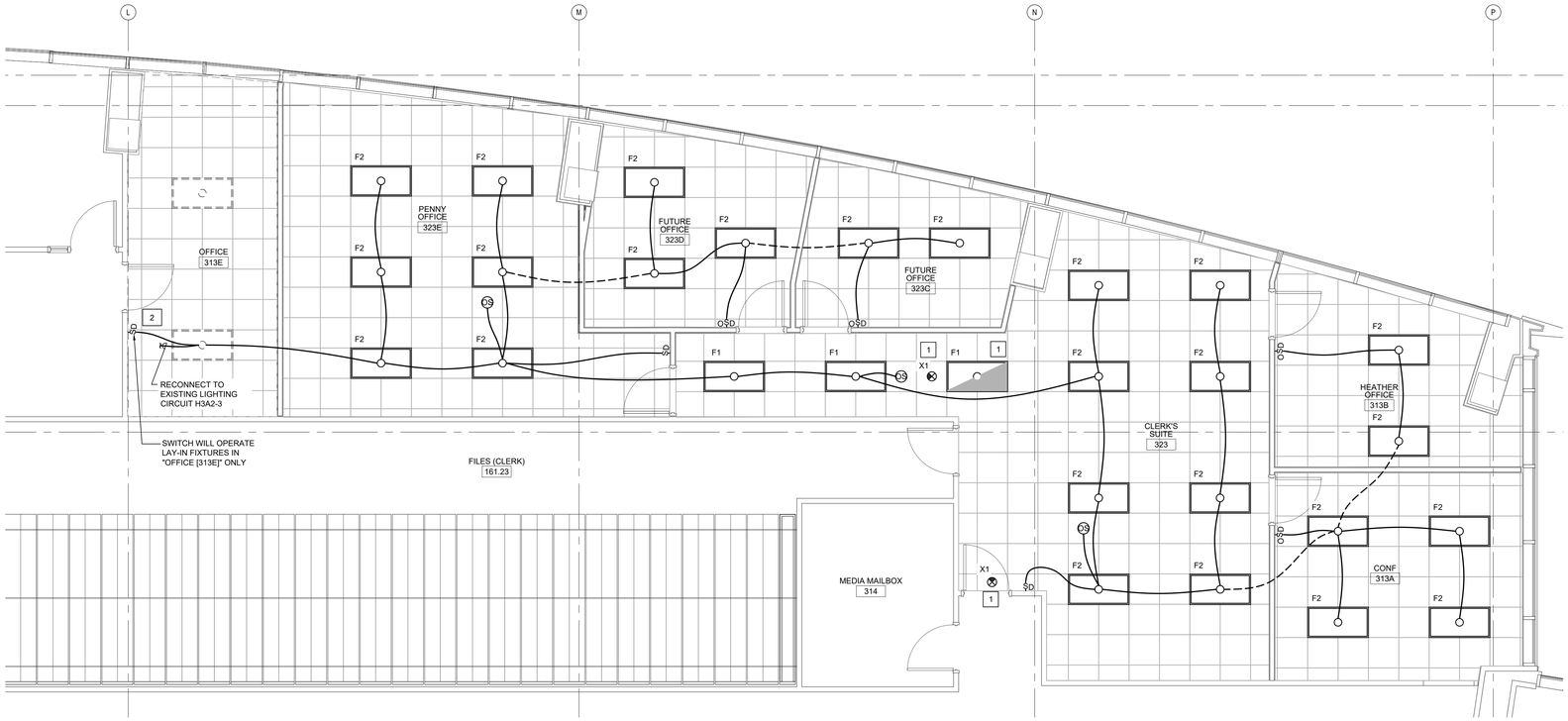

C1 **LEVEL 3 FLOOR PLAN**

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1. EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
2. PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.

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Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EL405

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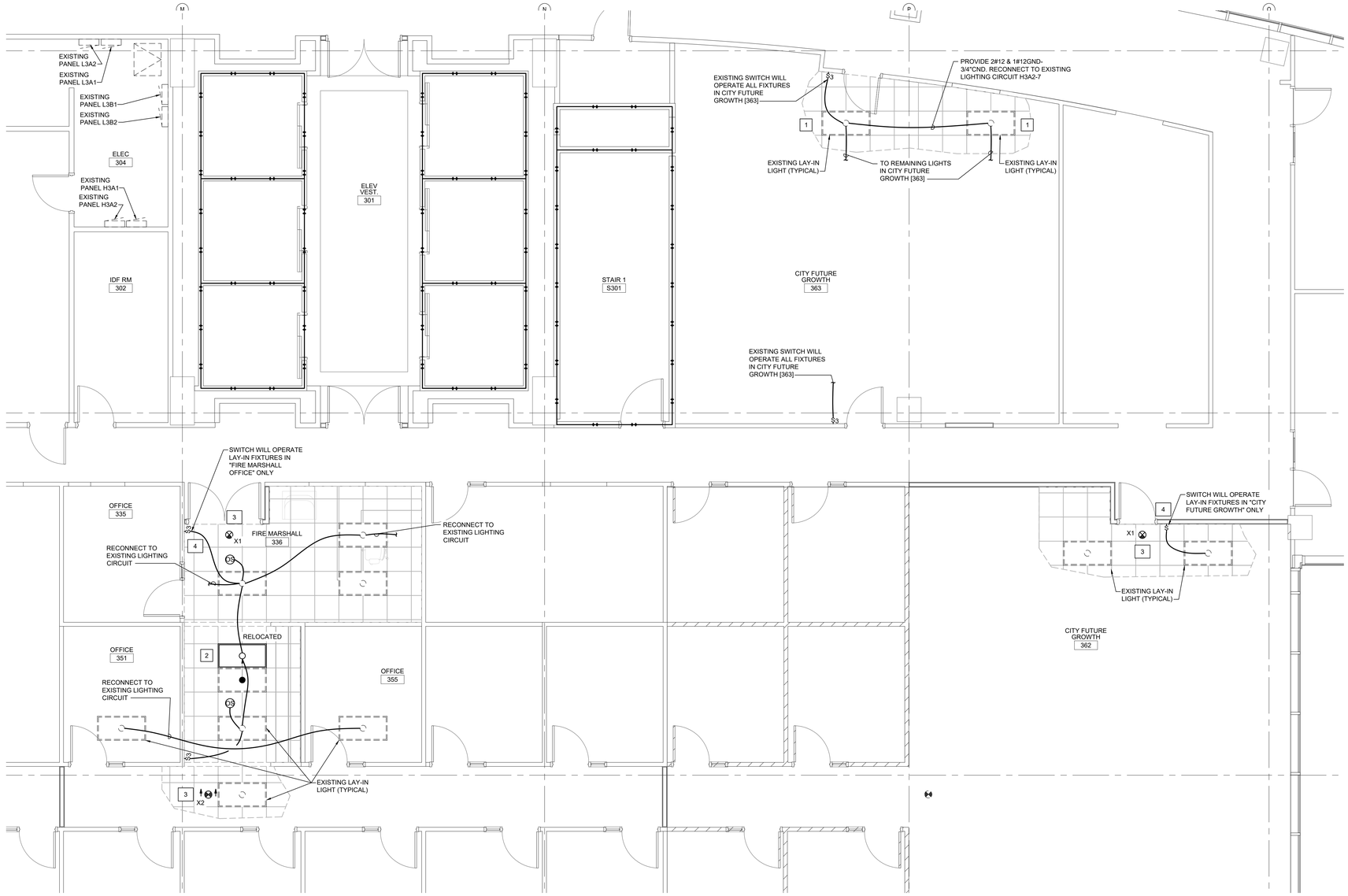

B1 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1. LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, FIXTURE MUST BE CONNECTED TO EXISTING LIGHTING CIRCUIT IT WAS CONNECTED TO PRIOR TO RELOCATION.
2. LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT INDICATED, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
3. EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
4. PROVIDE SWITCH IN LOCATION INDICATED, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EL406

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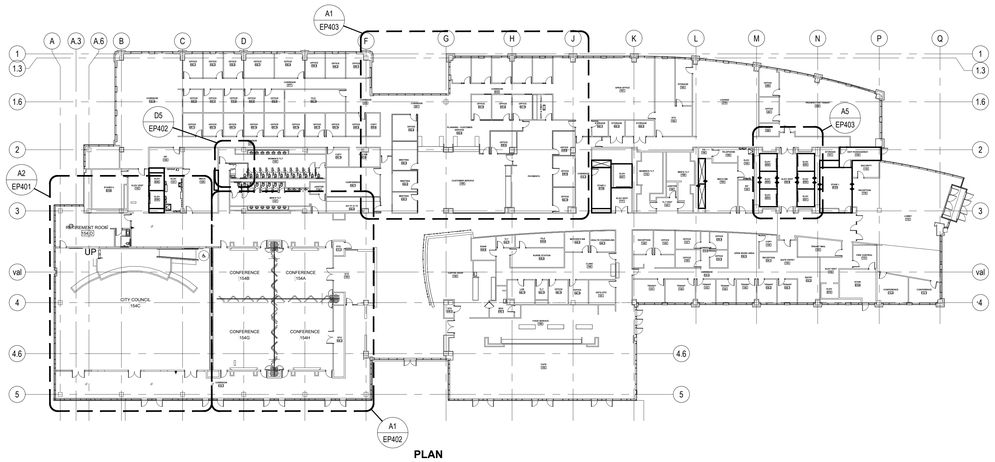
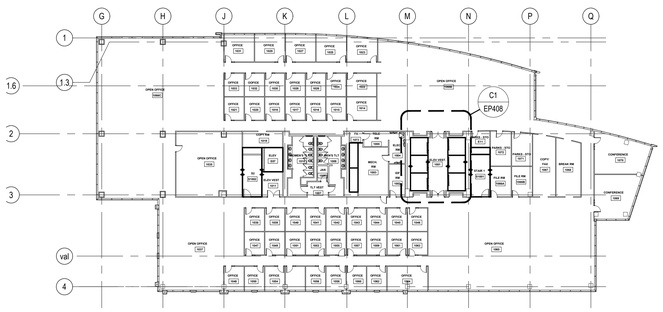
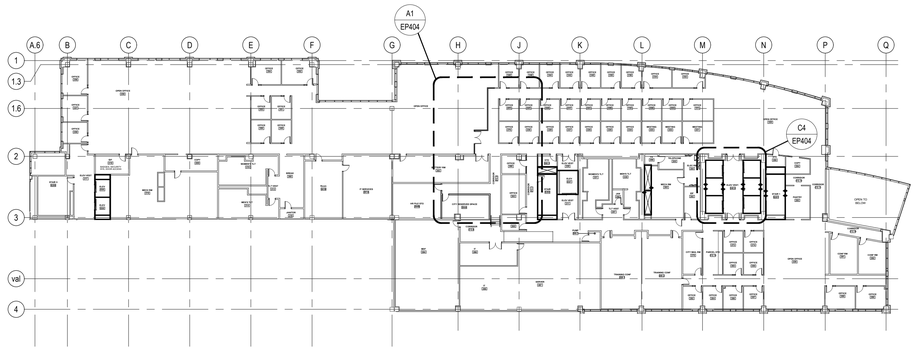


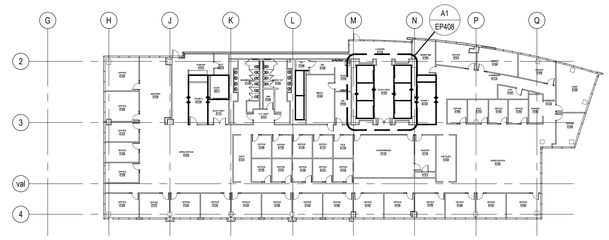
D1 FLOOR PLAN - LEVEL 1
1" = 30'-0"



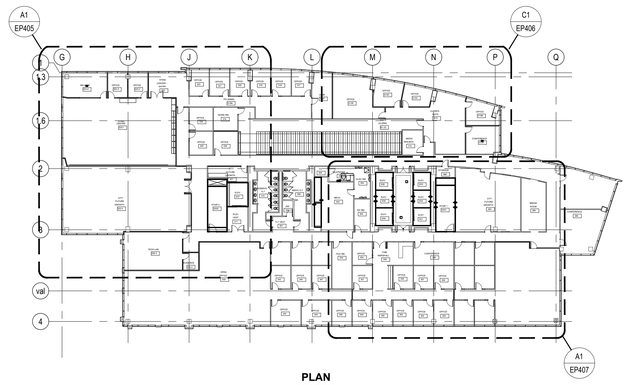
D5 FLOOR PLAN - LEVEL 10
1" = 30'-0"



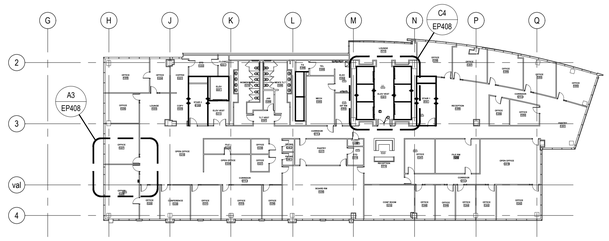
B1 FLOOR PLAN - LEVEL 2
1" = 30'-0"



B5 FLOOR PLAN - LEVEL 11
1" = 30'-0"



A2 FLOOR PLAN - LEVEL 3
1" = 30'-0"



A5 FLOOR PLAN - LEVEL 12
1" = 30'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN CRIBB

10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

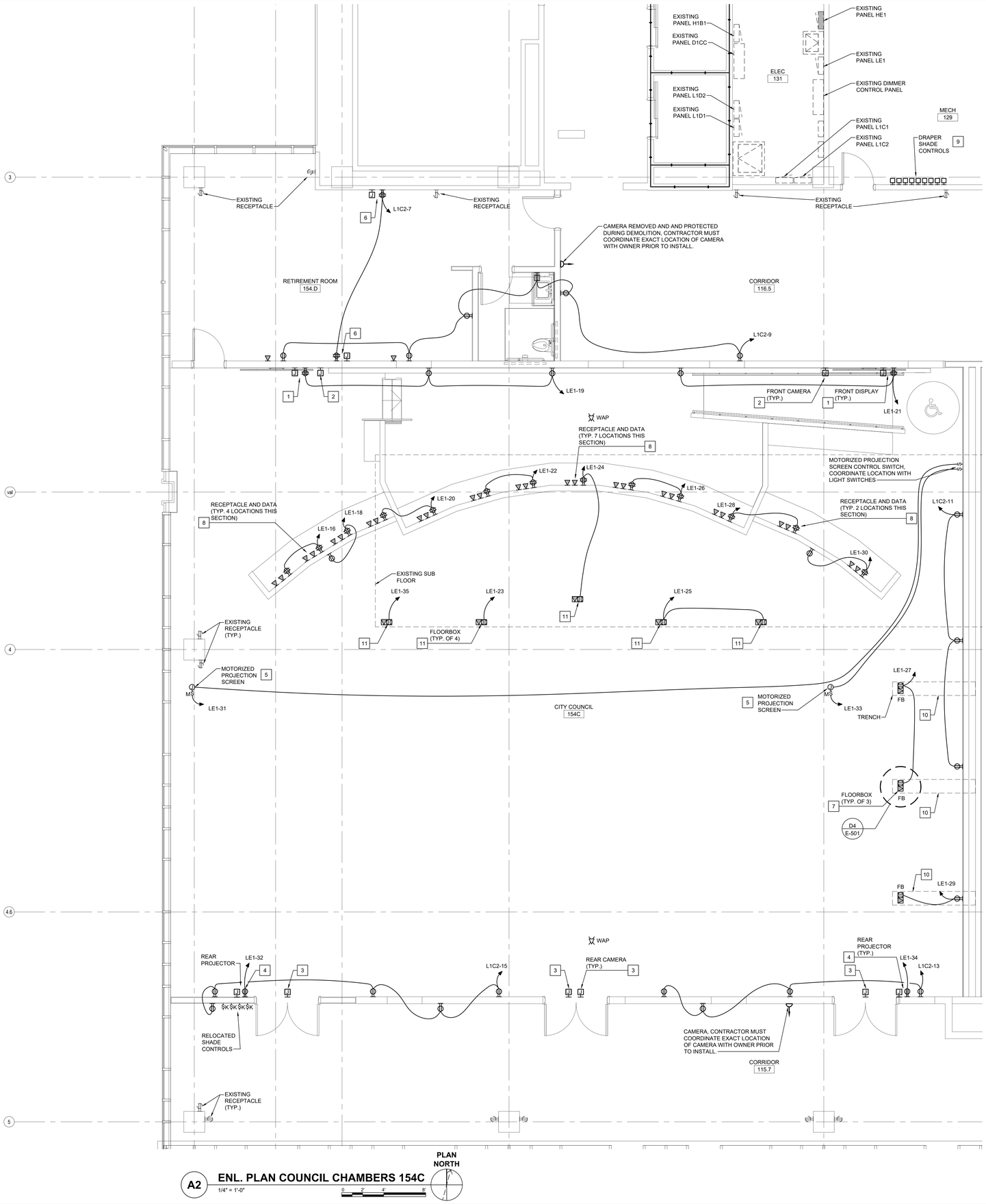
Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL LEVELS
1, 2, 3, 10, 11 AND 12

ORIG SUBMISSION: 2024.10.29

SHEET:
EP101

100% PERMIT SET



A2 **ENL. PLAN COUNCIL CHAMBERS 154C**
1/4" = 1'-0"

PLAN NORTH

AV COORDINATION NOTES

THE CLARK POWELL AUDIO VISUAL TECHNOLOGIES AND SOLUTIONS REFERENCE MATERIALS ATTACHED TO THE PROJECT MANUAL SHALL BE CONSIDERED AN ESSENTIAL COMPONENT OF THE CONTRACT DOCUMENTS. SOME ELECTRICAL WORK SHOWN IN THIS INFORMATION IS INTENTIONALLY NOT DUPLICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE AS PART OF THIS CONTRACT, SOURCES OF POWER; POWER, CONTROL AND COMMUNICATIONS CONDUCTORS, CABLES AND RACEWAYS; EMPTY RACEWAYS AND DUCT SYSTEMS; CONDUIT, JUNCTION BOXES, OUTLET AND PULL BOXES; SPECIAL COVER PLATES; MOUNTING HARDWARE; FINAL CONNECTIONS; CONNECTION HARDWARE; TESTING AND TESTING SUPPORT; ETC., FOR EQUIPMENT AS SHOWN ON THE CONTRACT DRAWINGS.

THE CONTRACTOR IS CAUTIONED TO THOROUGHLY REVIEW BOTH THE CONTRACT DRAWINGS AND THE CLARK POWELL AUDIO VISUAL TECHNOLOGIES AND SOLUTIONS REFERENCE MATERIALS. PRIOR TO SUBMITTING A BID. ELECTRICAL ITEMS SHOWN AND/OR NOTED IN THE REFERENCE INFORMATION TO BE PROVIDED BY THE "CUSTOMER", "OWNER", "CONTRACTOR", "CUSTOMER'S CONTRACTOR", "ELECTRICIAN" OR SIMILAR TERM SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE CONSIDERED BINDING AS MATERIAL, EQUIPMENT AND LABOR SHOWN ON THE CONTRACT DRAWINGS. NO EXTRAS WILL BE CONSIDERED OR APPROVED FOR ITEMS SHOWN ON EITHER THE ELECTRICAL DRAWINGS OR THE AV EQUIPMENT REFERENCE INFORMATION TO BE PROVIDED BY THE CONTRACTOR. INSTALLATION OF CERTAIN EQUIPMENT, MATERIALS AND CABLES FURNISHED BY THE AV MANUFACTURER AS NOTED IN THE REFERENCE INFORMATION IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.

COORDINATION WILL BE REQUIRED BETWEEN THE CONTRACTOR AND THE OWNER, THE AV VENDOR AND THE ARCHITECT/ENGINEER. FIELD VERIFY ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL EQUIPMENT, COMPONENTS, DEVICES, OUTLETS, RACEWAYS, ETC. PRIOR TO ROUGH-IN.

KEYED NOTES

1. FRONT & REAR DISPLAY: E.C. TO PROVIDE 120V-20A DUPLEX AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/ (1) 1 1 4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY, SEE AV-0215 FOR DETAILS AND MOUNTING HEIGHTS.
2. FRONT CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING, SEE AV-0215 FOR DETAILS AND MOUNTING HEIGHTS.
3. REAR CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING. CAMERAS WILL BE CENTERED OVER DOOR WITH 8" SEPARATING THE CENTER OF THE BOXES, SEE AV-0217 FOR DETAILS AND MOUNTING HEIGHTS.
4. REAR PROJECTOR: E.C. TO PROVIDE 120V-20A DUPLEX AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/ 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING, SEE AV-0217 FOR DETAILS AND MOUNTING HEIGHTS.
5. SIDE DROP DOWN SCREEN: E.C. TO PROVIDE SCREEN POWER TO BE HARDWIRED AFTER SCREEN IS INSTALLED, SEE AV-0216 FOR DETAILS AND MOUNTING REQUIREMENTS.
6. DISPLAY LOCATION E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE.PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0218 FOR DETAILS.
7. FLOOR BOX LOCATION E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED FROM ELECTRIC SIDE OF FLOOR BOX STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY.
8. RECEPTACLE AND DATA OUTLETS ARE SURFACE MOUNTED IN DAIS, SEE ARCHITECTURAL DRAWING A-703 DETAIL A5 FOR BOX LOCATIONS. CONDUIT TO BE ROUTED IN SPACE BELOW EXISTING RAISED FLOOR TO NEAREST WALL AND UP TO ABOVE CEILING.
9. SHADE CONTROLS: CONTRACTOR MUST MOUNT EXISTING DRAPER SHADE CONTROLS PROTECTED DURING DEMOLITION 48" AFF IN MECH RM 129. RE-FEED FROM EXISTING SOURCE WITH LIKE CONDUIT AND CONDUCTORS, REWIRE ALL SHADE MOTORS AND KEYED CONTROLS WITH LIKE CONDUCTORS AND CABLES PER MANUFACTURERS RECOMMENDATIONS. SHADES AFFECTED BY THIS PROJECT MUST BE OPERATIONAL AFTER PROJECT COMPLETION.
10. TRENCH: EC MUST COORDINATE WITH GENERAL CONTRACTOR PRIOR TO START OF ANY TRENCHING.
11. FLOOR BOX (RAISED FLOOR): THE CONTRACTOR MUST UTILIZE THE EXISTING FLOOR BOX THAT WAS REMOVED AND PROTECTED DURING DEMOLITION. BEFORE INSTALLATION, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND PAINTING THE FLOOR BOX. PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED FROM NON-ELECTRIC SIDE OF FLOOR BOX STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY.

CITY OF WILMINGTON
NORTH CAROLINA

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLAN
LEVEL 1

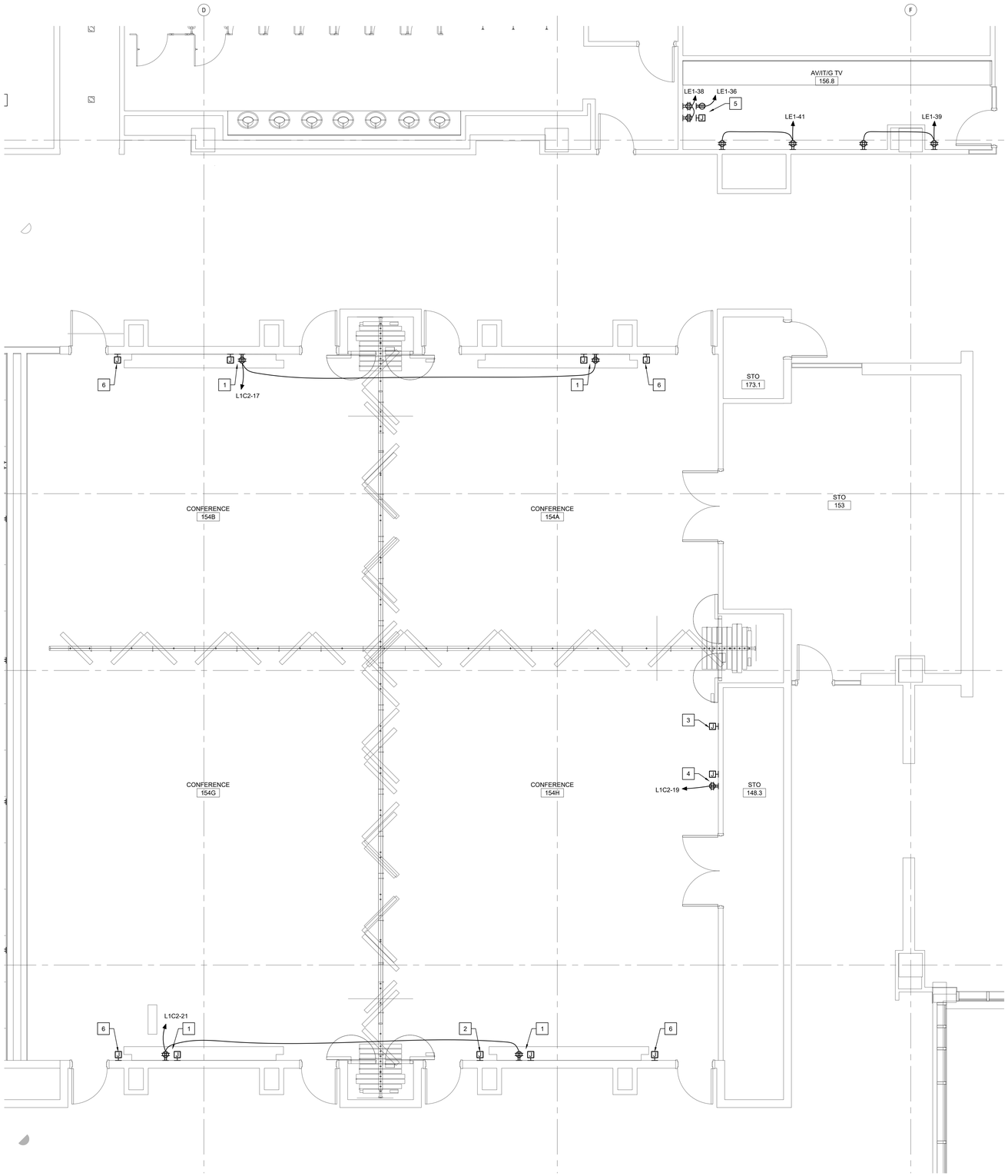
ORIG SUBMISSION: 2024.10.29

SHEET:
EP401

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCHITECTURAL D SIZE SHEETS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAPER SIZE



A1 **ENL. PLAN COUNCIL CHAMBERS 154C**
1/4" = 1'-0"

PLAN NORTH

AV COORDINATION NOTES

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KEYED NOTES

1. DISPLAY: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0305 DETAIL 1 FOR DETAILS AND MOUNTING REQUIREMENTS.
2. FRONT CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT (W/PULL STRING INSTALLED) STUBBED INTO THE ACCESSIBLE CEILING. SEE AV-0220 FOR DETAILS.
3. SIDE CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILINS. SEE AV-0220 FOR DETAILS.
4. CONTROL DESK: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 5 GANG WORK BOX WITH 4 GANG MUD RING W/(2) 1 1/4"Ø CONDUITS W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0220 FOR DETAILS.
5. DISPLAY: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0218 FOR DETAILS.
6. COMPUTER INTERFACE: E.C. TO PROVIDE 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY.

CITY OF WILMINGTON
NORTH CAROLINA

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

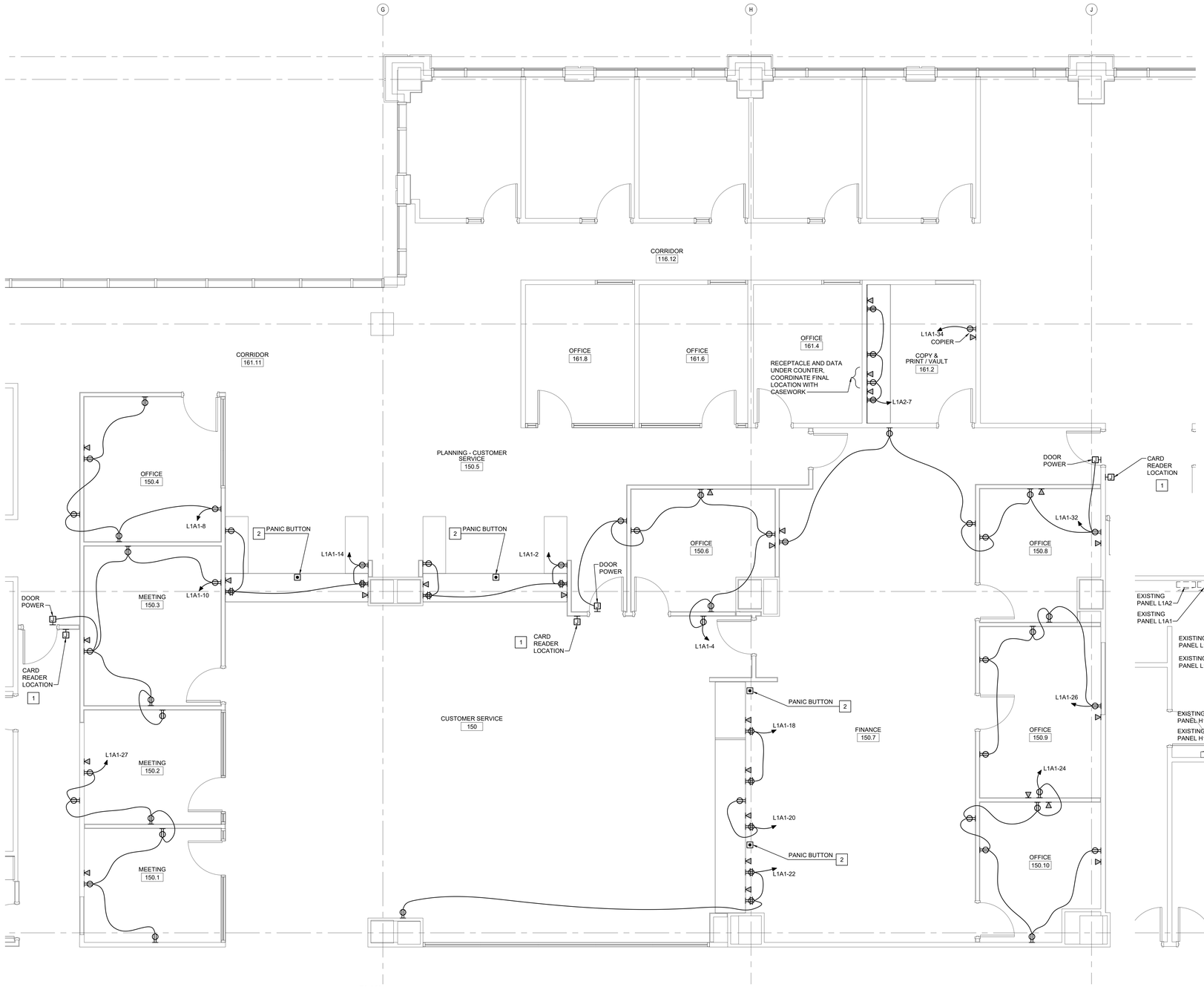
SHEET:
EP402

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

KEYED NOTES

1. CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 102 THIS FLOOR.
2. PANIC BUTTON: PROVIDE SURFACE MOUNTED JUNCTION BOX, 3/4"CND ON UNDERSIDE OF THE COUNTER TOP WITH NYLON PULL STRING TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF PANIC BUTTON WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL PANIC BUTTON AND CABLE FROM PANIC BUTTON TO SECURITY PANEL.



A1 ENL. PLAN CUSTOMER SERVICE
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH

A5 ENL. PLAN ELEV VEST. 148.6
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

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SHEET NAME:
ELECTRICAL
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
EP403

100% PERMIT SET

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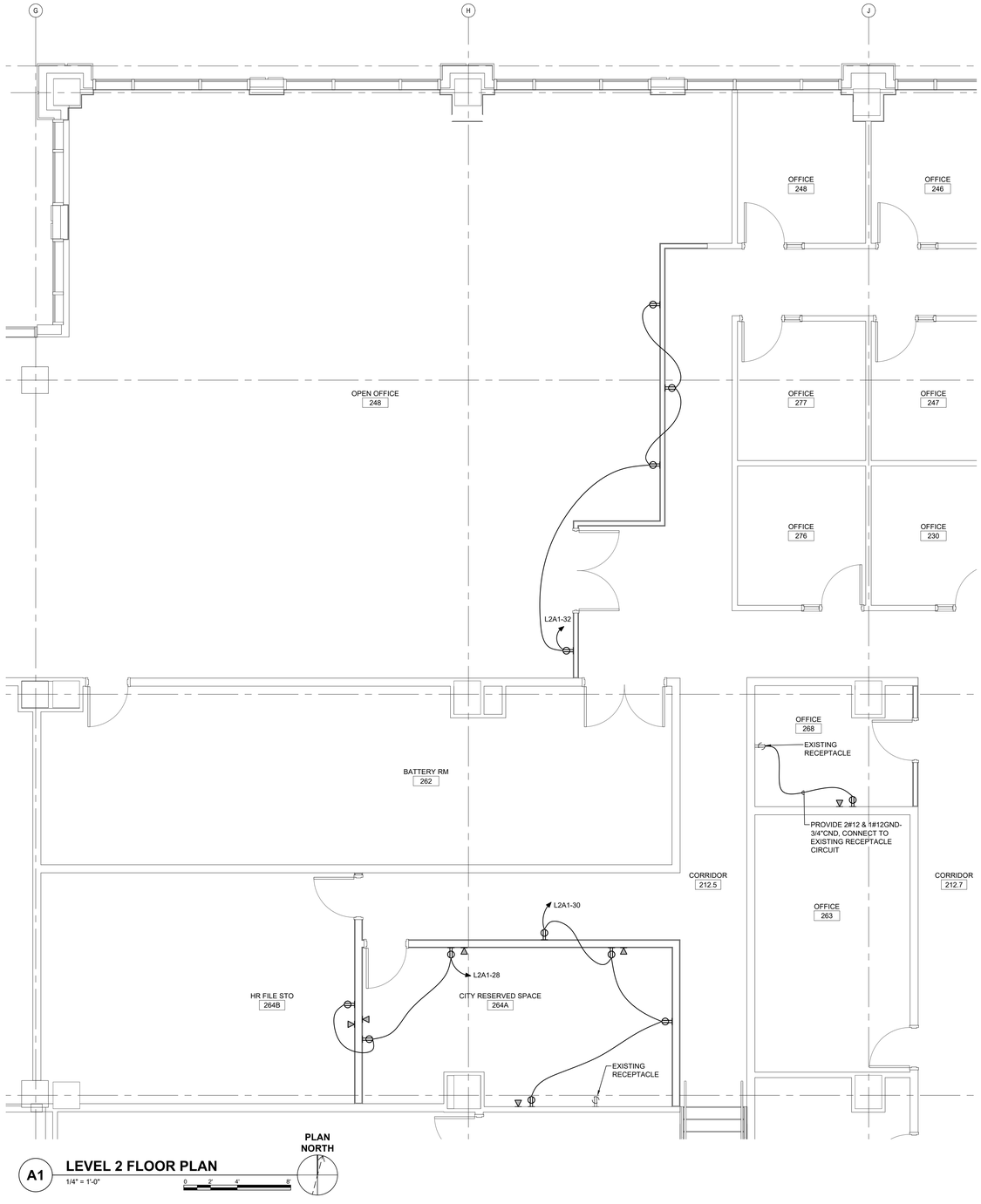
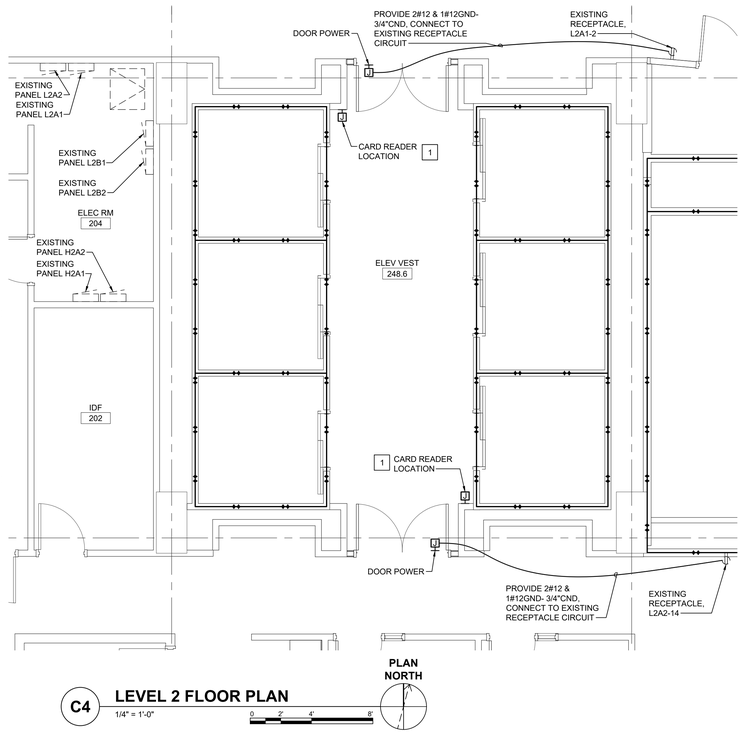


A1 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"



C4 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

KEYED NOTES

1 CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 202 THIS FLOOR.

CITY OF WILMINGTON
NORTH CAROLINA

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 2

ORIG SUBMISSION: 2024.10.29

SHEET:
EP404

100% PERMIT SET

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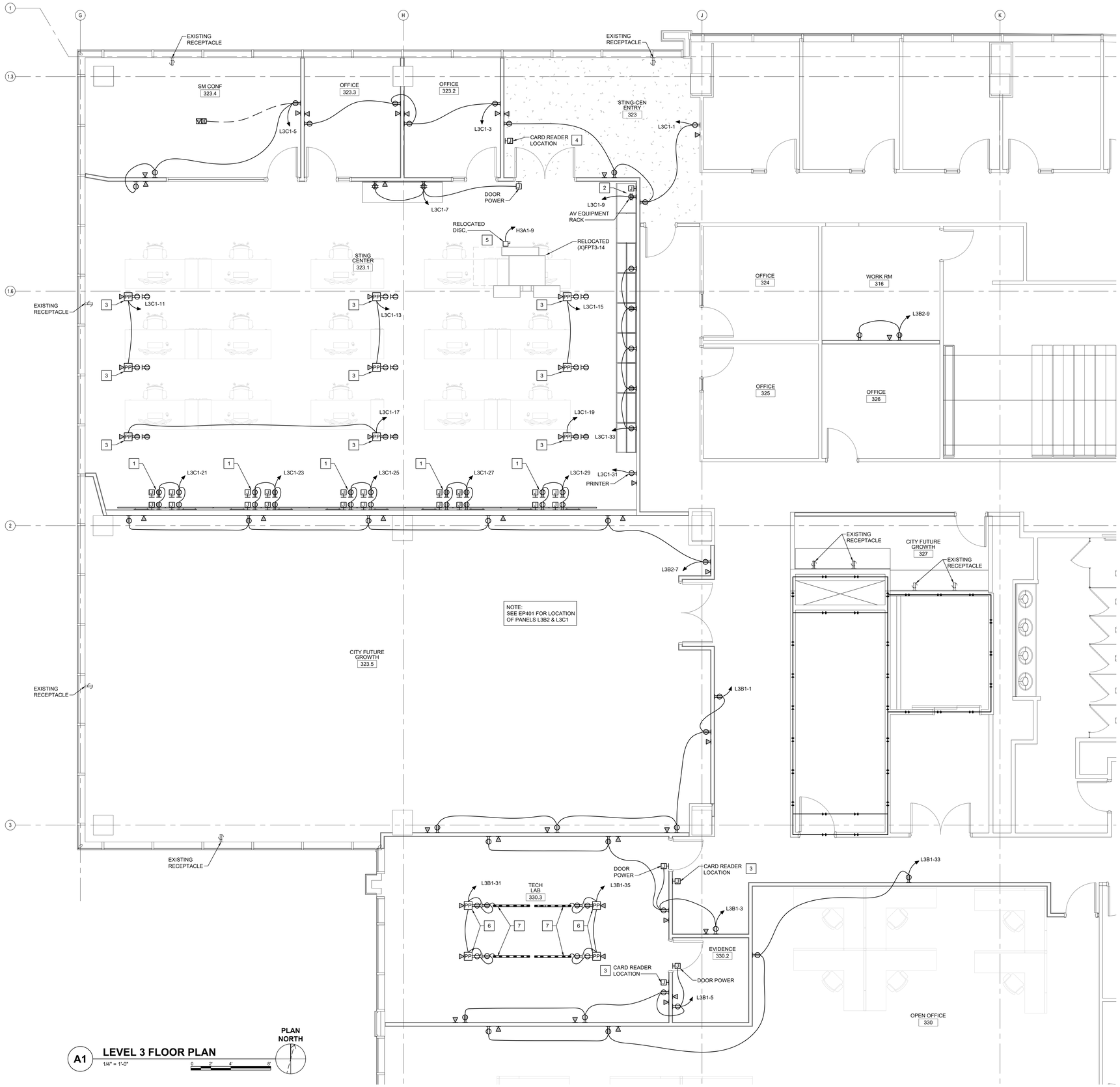

A1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"

PLAN NORTH

AV COORDINATION NOTES

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KEYED NOTES

1. DISPLAY: E.C. TO PROVIDE 120V-20A DUPLEX AC POWER RECEPTACLE (TYPICAL ALL 20 LOCATIONS). PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING ABOVE TOP ROW OF DISPLAY. PROVIDE 1"Ø CONDUIT W/PULL STRING INSTALLED FROM BOTTOM OF TOP BOX TO TOP OF LOWER BOX. SEE AV-0301 FOR DETAILS AND MOUNTING HEIGHTS.
2. AV RACK EQUIPMENT: E.C. TO PROVIDE DEDICATED 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A FLUSH MOUNTED 8X8 NEMA RATED PULL BOX WITH (2) 2"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING SEE AV-0206 FOR DETAILS AND MOUNTING HEIGHTS.
3. POWER POLE: PROVIDE 10'-0" EXTRUDED ALUMINUM POWER POLE, 2-CHANNELS WITH CEILING TRIM, ANODIZED ALUMINUM, MULTI-SERVICE, TWO-CHANNEL POLE WITH (2) STYLELINE KNOCKOUTS, (2) 20AMP RECEPTACLES. ADJUSTABLE T-BAR ASSEMBLY FOR MOUNTING POLES IN MIDDLE OF CEILING. UL LISTED. EACH POWER POLE SHOWN ON PLAN SHALL HAVE PROVISIONS FOR (4) DATA DROPS. HUBBEL CAT.# HPS10A OR EQUAL.
4. CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 302 THIS FLOOR.
5. MECHANICAL UNIT: MOUNT EXISTING DISC, REMOVED DURING DEMOLITION ABOVE CEILING ADJACENT TO UNIT. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO POWER UNIT IN LOCATION INDICATED. E.C. MUST VERIFY CIRCUIT PRIOR TO INSTALL.
6. POWER POLE: PROVIDE 10'-0" EXTRUDED ALUMINUM POWER POLE, 2-CHANNELS WITH CEILING TRIM, ANODIZED ALUMINUM, MULTI-SERVICE, TWO-CHANNEL POLE WITH (2) STYLELINE KNOCKOUTS, (2) 20AMP RECEPTACLES. ADJUSTABLE T-BAR ASSEMBLY FOR MOUNTING POLES IN MIDDLE OF CEILING. UL LISTED. EACH POWER POLE SHOWN ON PLAN SHALL HAVE PROVISIONS FOR (4) DATA DROPS. HUBBEL CAT.# HPS10A OR EQUAL.
7. PLUG MOLD: PROVIDE (1) 120V PLUG MOLD WITH 8 OUTLETS AND CORDED PLUG END SIMILAR TO WIREMOLD PM48C SERIES, E.C. MUST COORDINATE EXACT LOCATION OF PLUG MOLD ON FURNITURE WITH OWNER PRIOR TO ROUGH-IN AND INSTALL.

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NORTH CAROLINA

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10/29/2024

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SKYLINE CENTER UPFIT

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

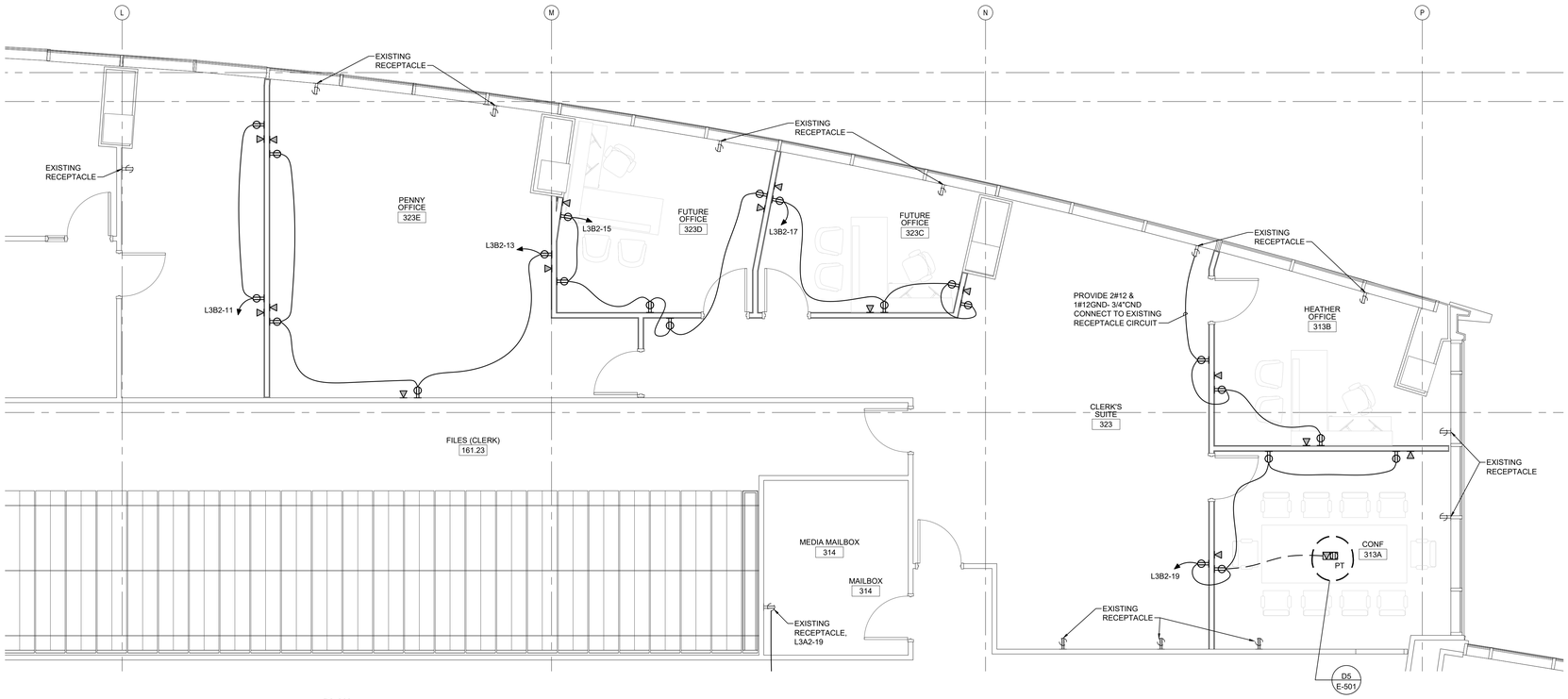
SHEET NAME:
ELECTRICAL
ENL. PLAN
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EP405

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



C1 **LEVEL 3 FLOOR PLAN**

1/4" = 1'-0"

0 2' 4' 8'

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN CRIBB

10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

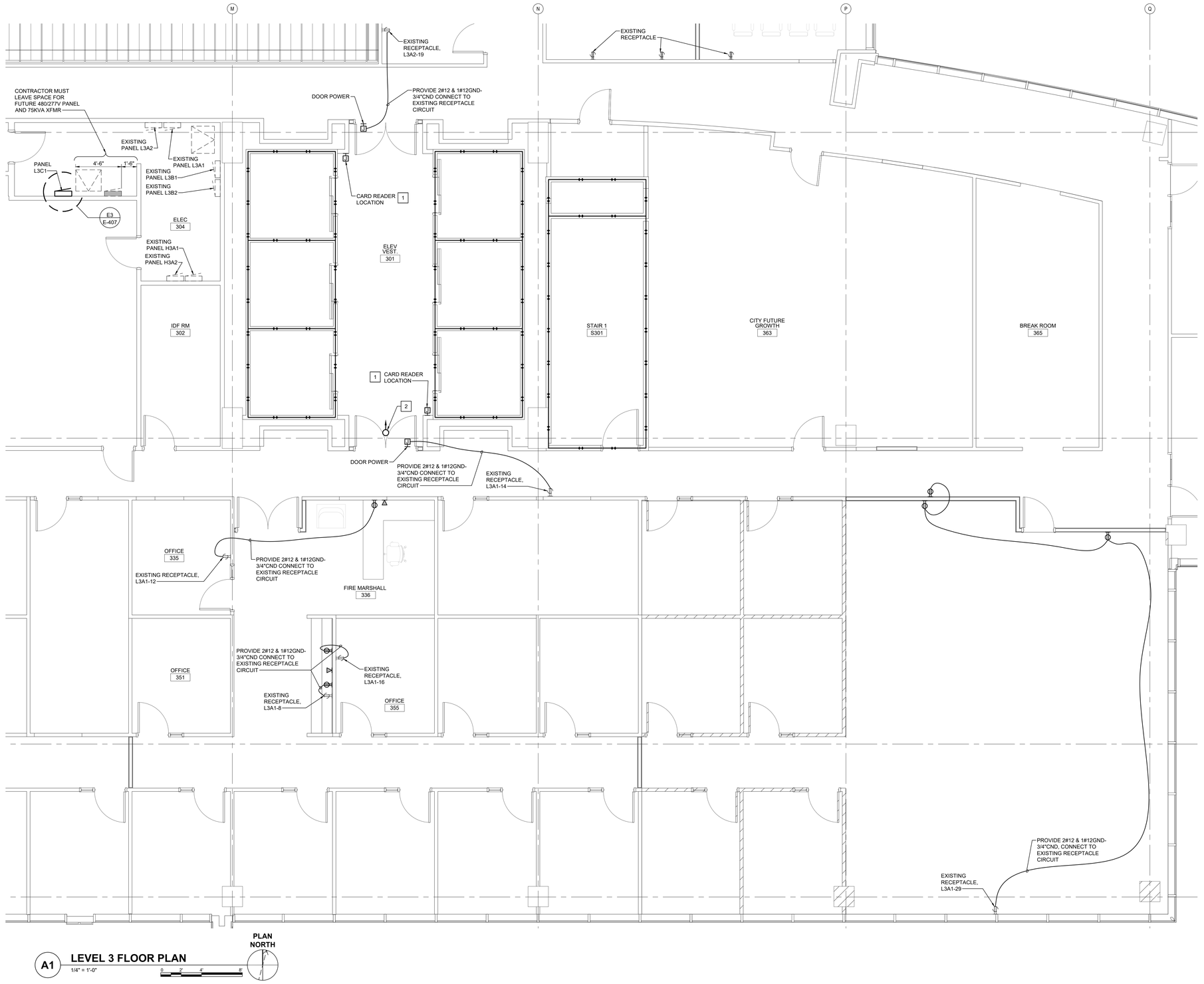
SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EP406

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAPER SIZE



A1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1 CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 302 THIS FLOOR.

2 CAMERA: CAMERA TO BE INSTALLED ON CEILING BULKHEAD INSIDE ELEVATOR VESTIBULE. COORDINATE EXACT LOCATION OF CAMERA WITH OWNER PRIOR TO INSTALLATION, CONNECT EXISTING CAMERA CABLE PROTECTED DURING DEMOLITION.

CITY OF WILMINGTON NORTH CAROLINA

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL ENL. PLANS LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
EP407

100% PERMIT SET

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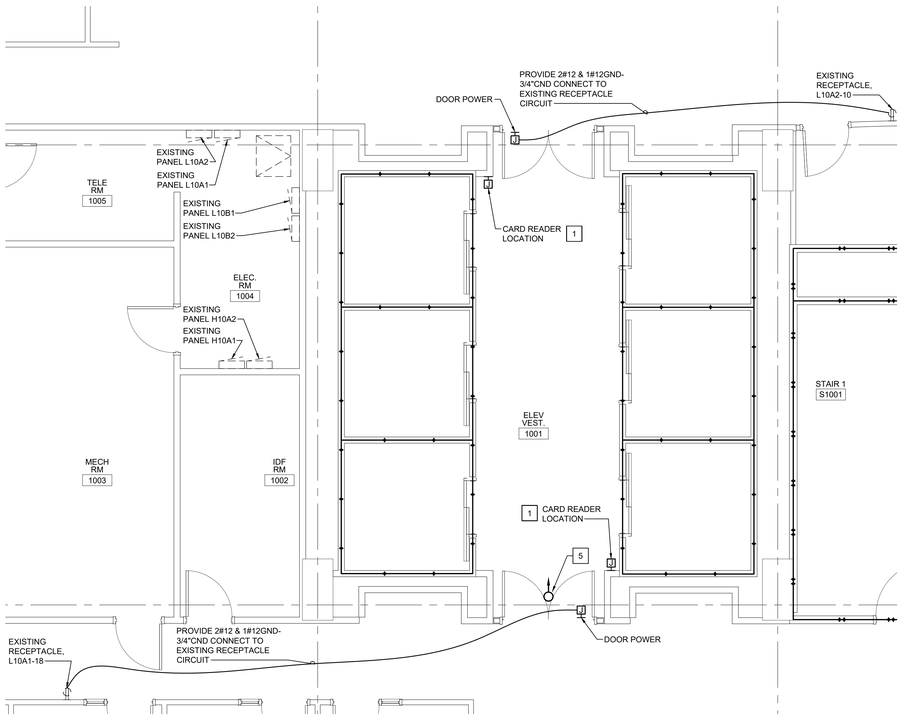
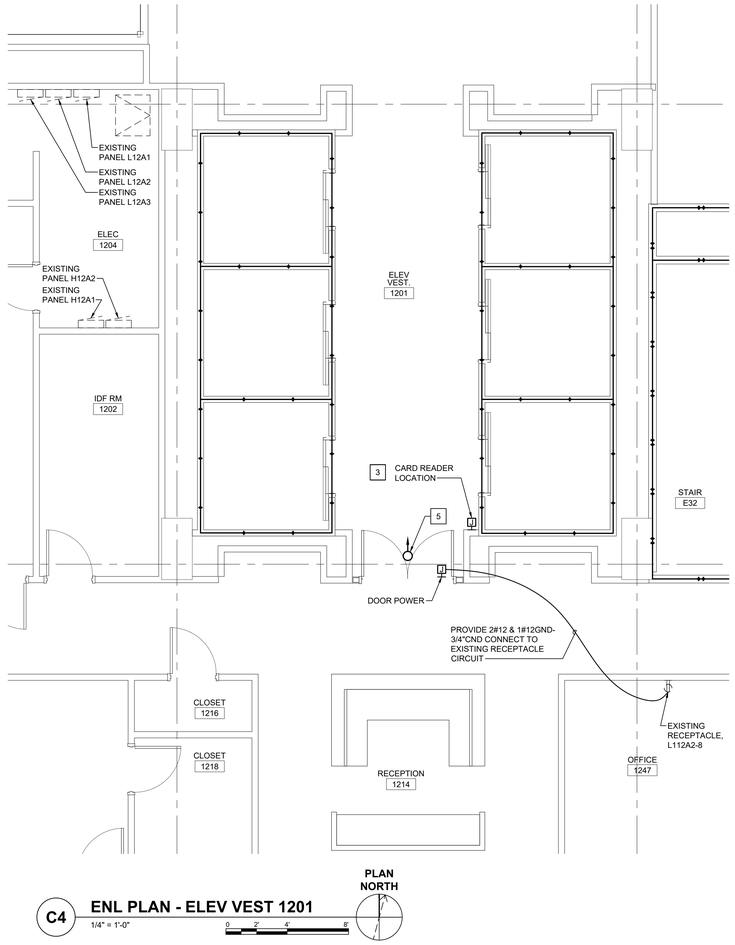
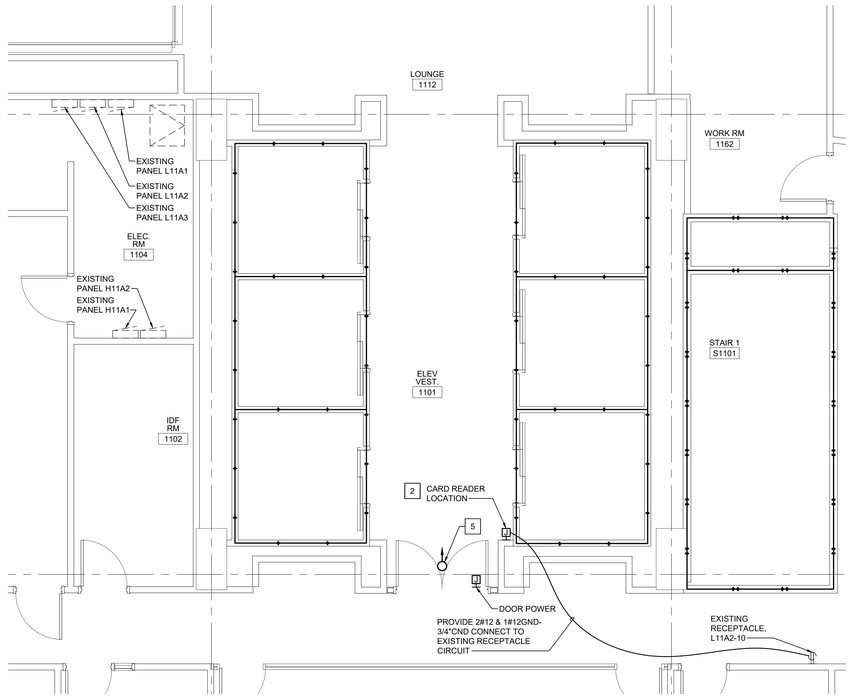


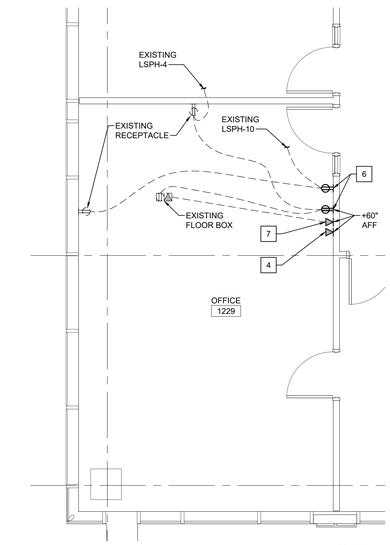
C1 ENL PLAN - ELEV VEST 1001
1/4" = 1'-0"



C4 ENL PLAN - ELEV VEST 1201
1/4" = 1'-0"



A1 ENL PLAN - ELEV VEST 1101
1/4" = 1'-0"



A3 ENL PLAN - OFFICE 1229
1/4" = 1'-0"

KEYED NOTES

1. CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 1002 THIS FLOOR.
2. CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 1102 THIS FLOOR.
3. CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 1202 THIS FLOOR.
4. CATV: PROVIDE BOX AT 60" AFF ON WALL AND RECONNECT CATV CABLE PROTECTED ABOVE CEILING DURING DEMOLITION.
5. CAMERA: CAMERA TO BE INSTALLED ON CEILING BULKHEAD INSIDE ELEVATOR VESTIBULE. COORDINATE EXACT LOCATION OF CAMERA WITH OWNER PRIOR TO INSTALLATION, CONNECT EXISTING CAMERA CABLE PROTECTED DURING DEMOLITION.
6. RECEPTACLE: RECONNECT TO EXISTING RECEPTACLE CIRCUIT DISCONNECTED DURING DEMOLITION.
7. DATA OUTLET: PROVIDE BOX AT 60" AFF ON WALL. RECONNECT CONDUIT FROM FLOOR BOX TO BOX MOUNTED AT 60" AFF, PROVIDE DATA CABLE FROM FLOOR BOX TO DATA WALL BOX AND RECONNECT DATA CABLE PROTECTED ABOVE CEILING DURING DEMOLITION.

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENL. PLANS
LEVELS 10, 11 AND 12

ORIG SUBMISSION: 2024.10.29

SHEET:
EP408

100% PERMIT SET

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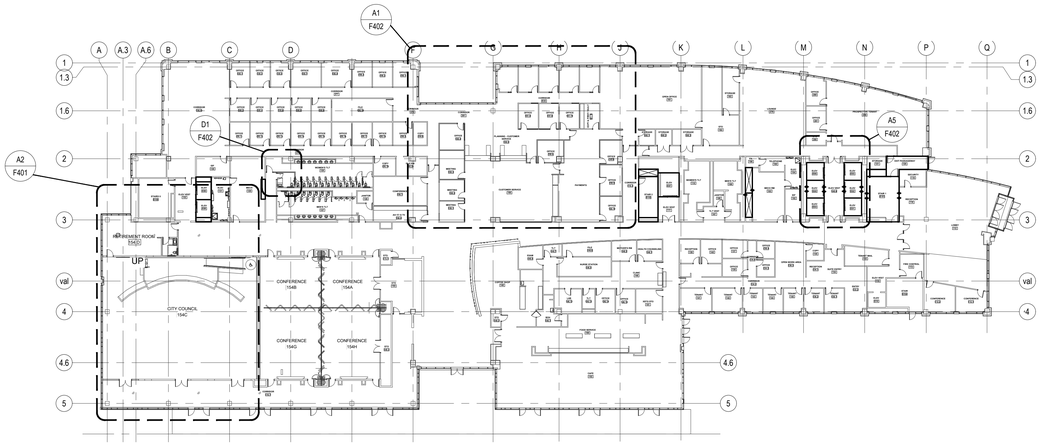
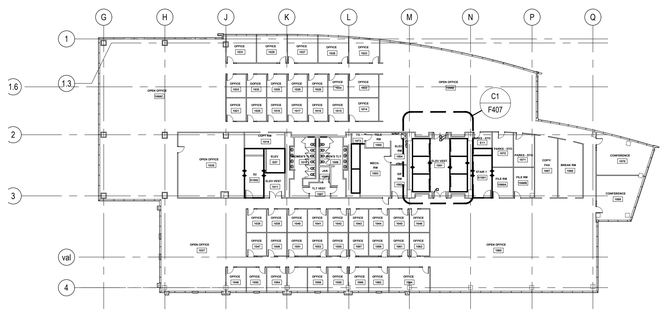
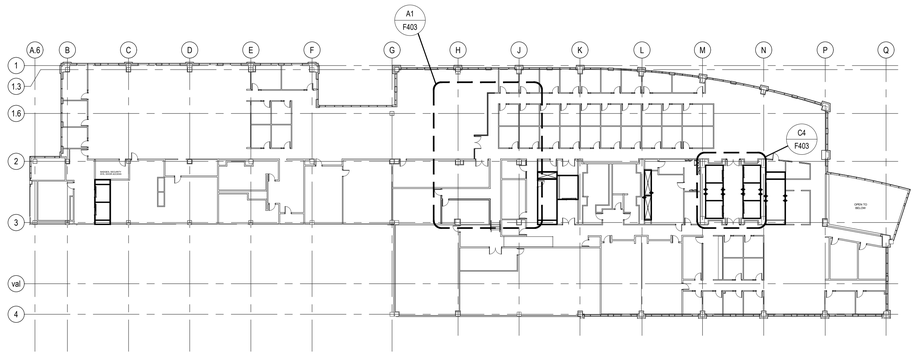


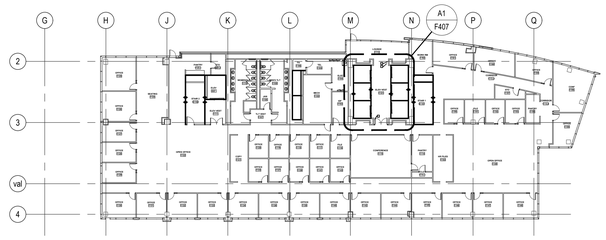
D1 **FLOOR PLAN - LEVEL 1**
1" = 30'-0"
PLAN NORTH



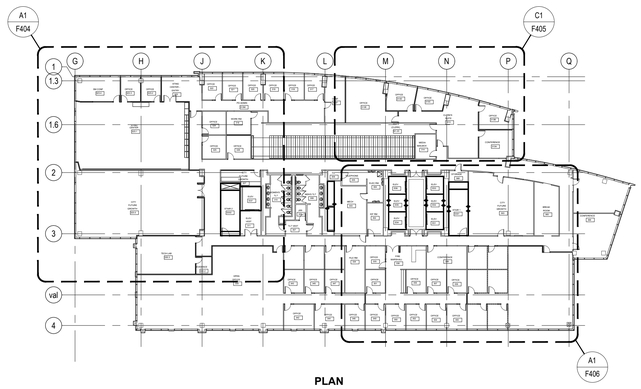
D5 **FLOOR PLAN - LEVEL 10**
1" = 30'-0"
PLAN NORTH



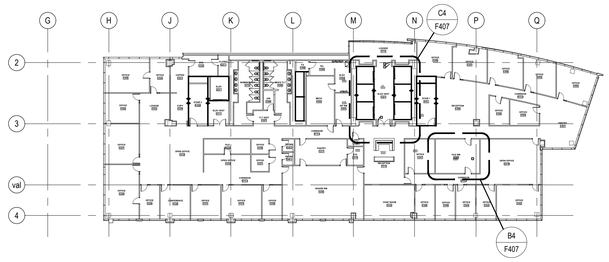
B1 **FLOOR PLAN - LEVEL 2**
1" = 30'-0"
PLAN NORTH



B5 **FLOOR PLAN - LEVEL 11**
1" = 30'-0"
PLAN NORTH



A2 **FLOOR PLAN - LEVEL 3**
1" = 30'-0"
PLAN NORTH



A5 **FLOOR PLAN - LEVEL 12**
1" = 30'-0"
PLAN NORTH

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
LEVELS
1, 2, 3, 10, 11 AND 12

ORIG SUBMISSION: 2024.10.29

SHEET:
F101

100% PERMIT SET

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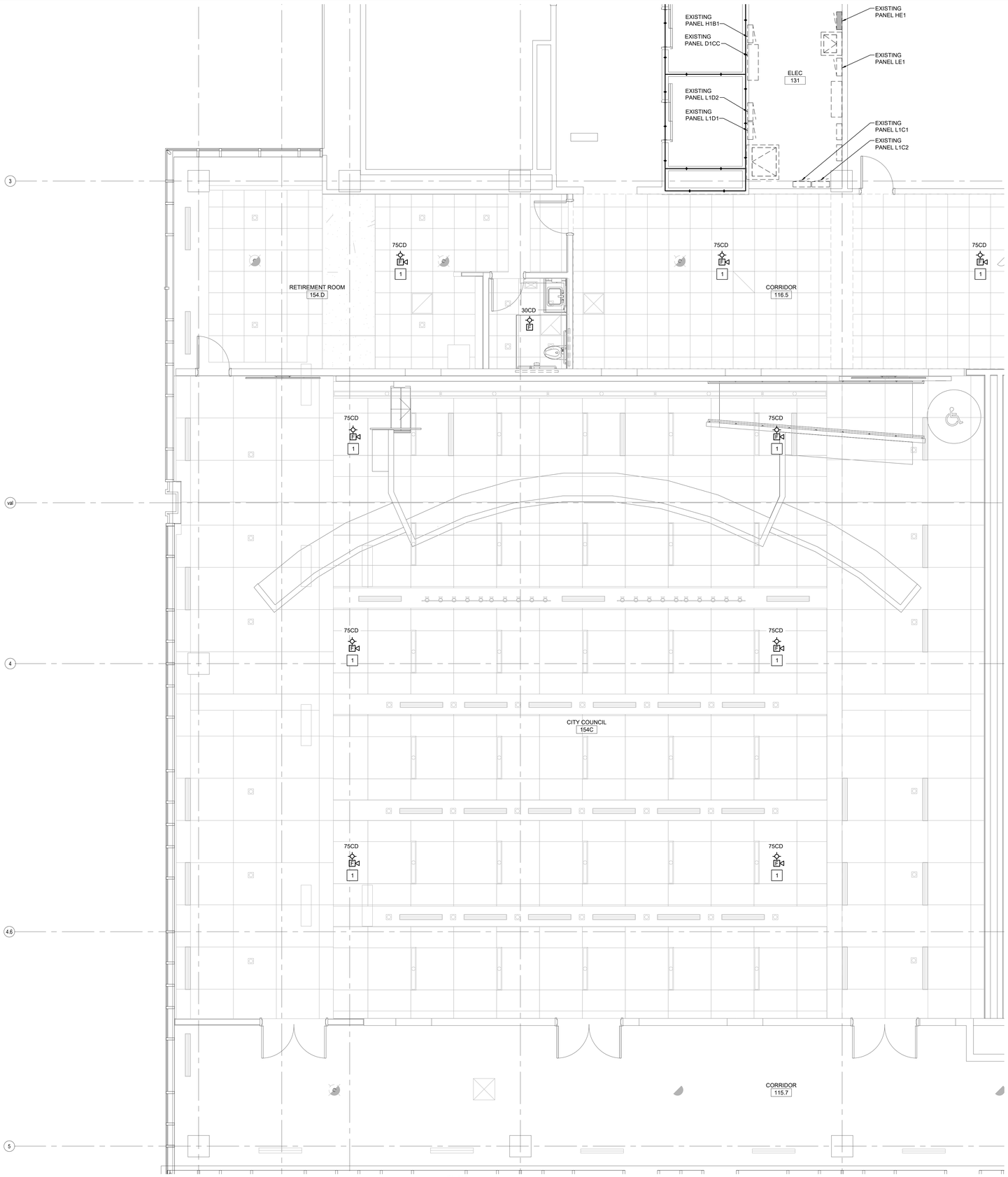

A2 **ENL. PLAN COUNCIL CHAMBERS 154C**
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES

KEYED NOTES

1 FA SPEAKER STROBE: PROVIDE DEVICE IN LOCATION INDICATED. TIE INTO EXISTING NAC CIRCUIT. DEVICES MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
F401

100% PERMIT SET

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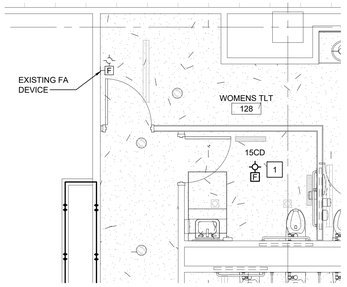


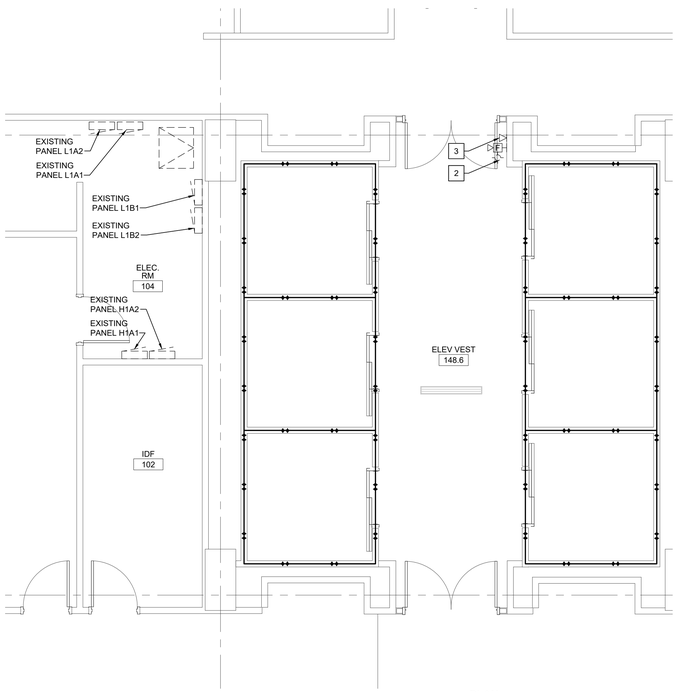
D1 **ENL. PLAN - TLT 127.5**
1/4" = 1'-0"

PLAN NORTH



A1 **ENL. PLAN CUSTOMER SERVICE**
1/4" = 1'-0"

PLAN NORTH



A5 **ENL. PLAN ELEV VEST. 148.6**
1/4" = 1'-0"

PLAN NORTH

KEYED NOTES

1. FA SPEAKER STROBE: PROVIDE DEVICE IN LOCATION INDICATED. TIE INTO EXISTING NAC CIRCUIT. DEVICES MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.
2. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE FA DEVICE OPERATIONAL.
3. FIRE PHONE: DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE PHONE OPERATIONAL.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
F402

100% PERMIT SET

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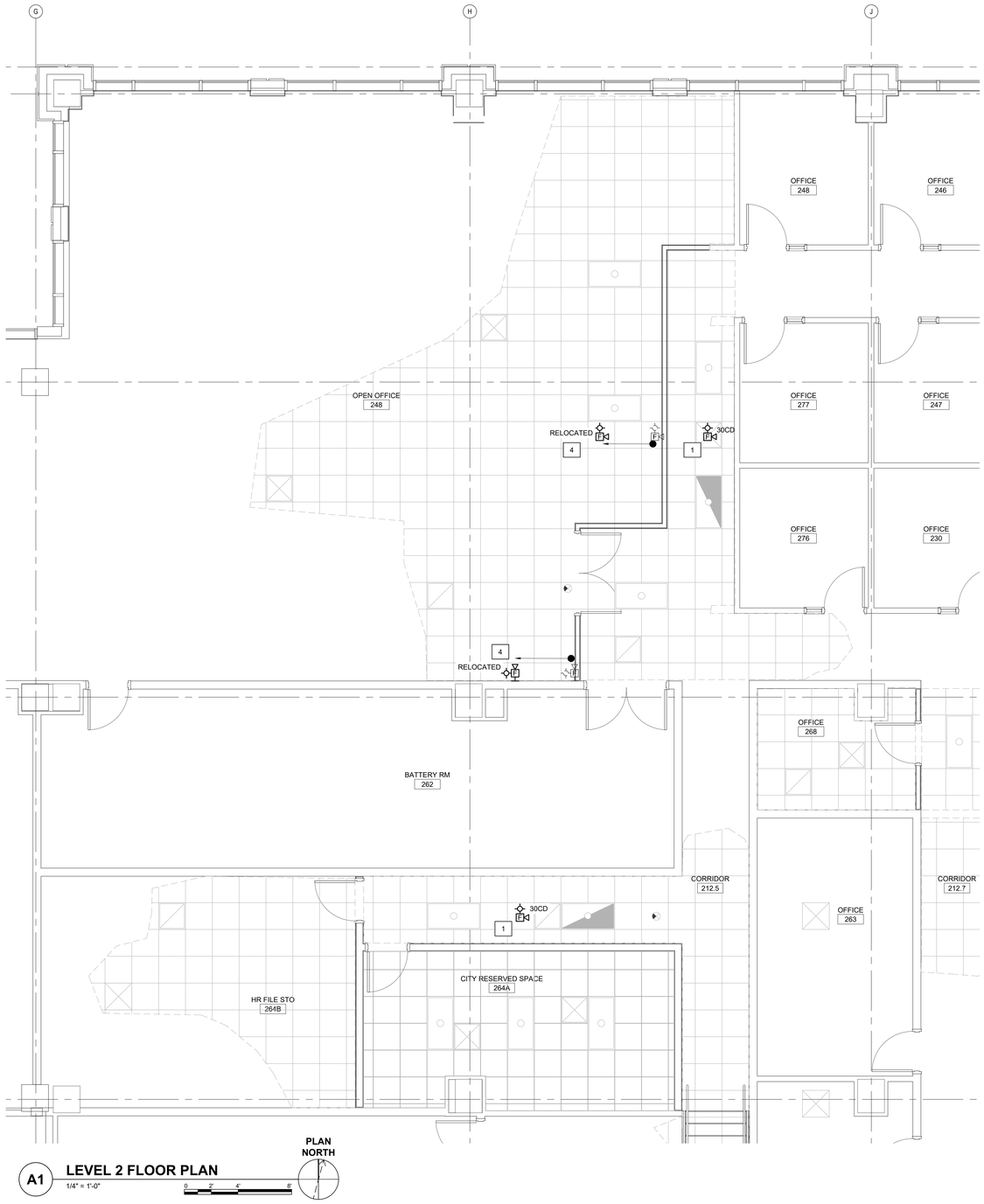
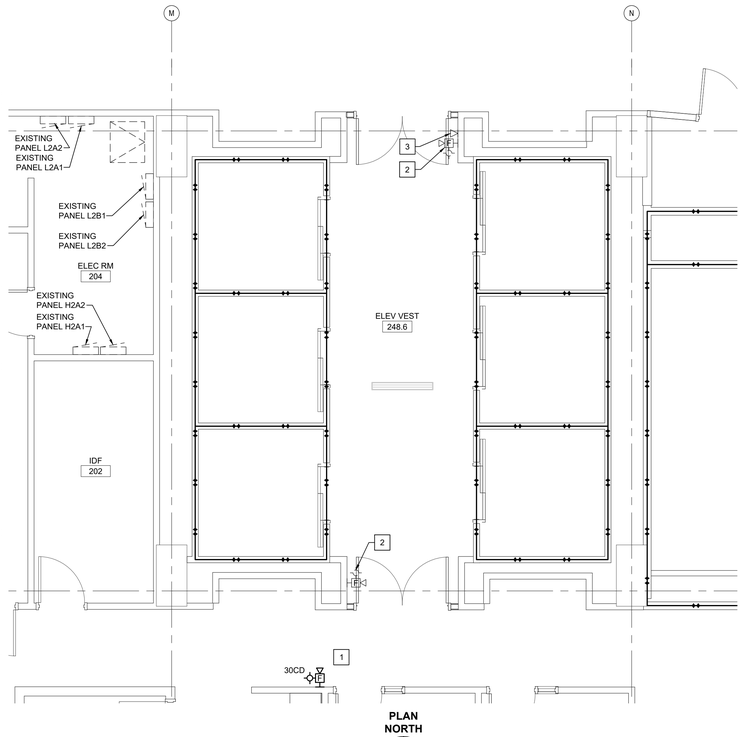


A1 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

PLAN NORTH



C4 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

PLAN NORTH

KEYED NOTES

1. FA SPEAKER STROBE: PROVIDE DEVICE IN LOCATION INDICATED. TIE INTO EXISTING NAC CIRCUIT. DEVICES MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.
2. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE FA DEVICE OPERATIONAL.
3. FIRE PHONE: DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE PHONE OPERATIONAL.
4. EXISTING FA SPEAKER STROBE: RELOCATE DEVICE IN LOCATION INDICATED. EXTEND EXISTING NAC CIRCUIT AS REQUIRED. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM ENL. PLANS LEVEL 2

ORIG SUBMISSION: 2024.10.29

SHEET:
F403

100% PERMIT SET

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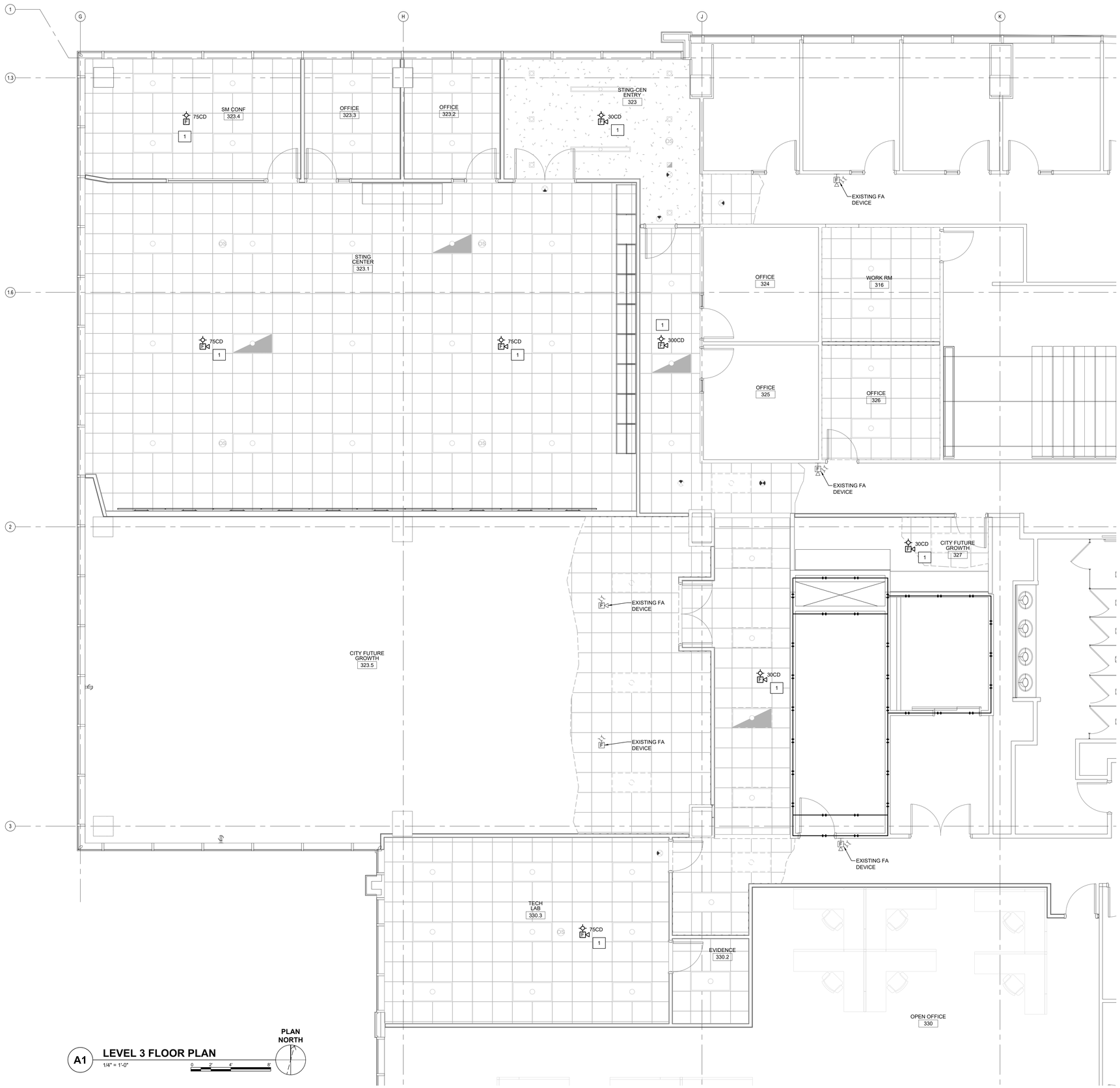

A1 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1 FA SPEAKER STROBE: PROVIDE DEVICE IN LOCATION INDICATED. TIE INTO EXISTING NAC CIRCUIT. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM ENL. PLAN LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
F404

100% PERMIT SET

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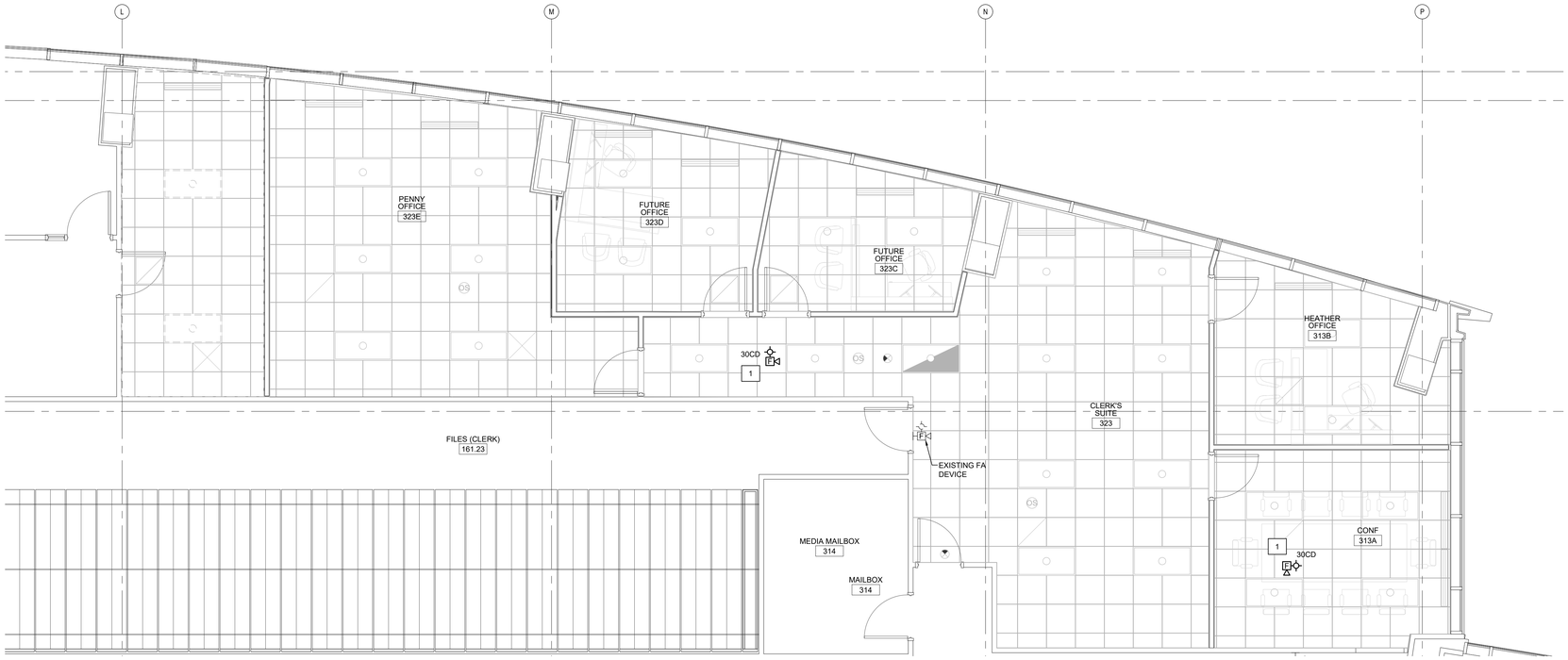

C1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1 FA SPEAKER STROBE: PROVIDE DEVICE IN LOCATION INDICATED. TIE INTO EXISTING NAC CIRCUIT. DEVICES MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

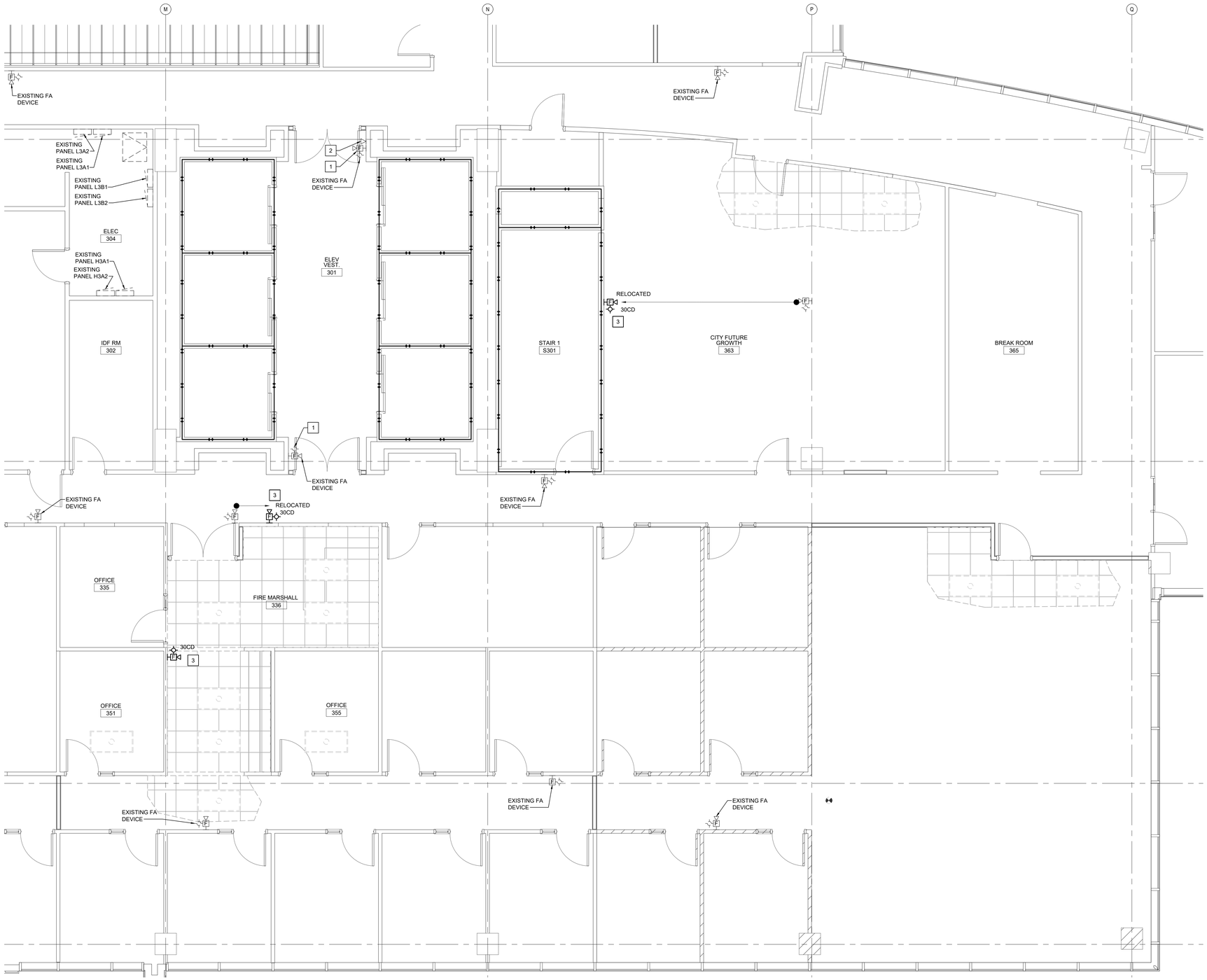
SHEET NAME:
FIRE ALARM
ENL. PLAN
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
F405

100% PERMIT SET

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



A1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

KEYED NOTES

1. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED AND APPROVED TO PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE FA DEVICE OPERATIONAL.
2. FIRE PHONE: DEVICE MUST BE TESTED AND APPROVED TO PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE PHONE OPERATIONAL.
3. EXISTING FA SPEAKER STROBE: RELOCATE DEVICE IN LOCATION INDICATED. EXTEND EXISTING NAC CIRCUIT AS REQUIRED. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

CITY OF WILMINGTON NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

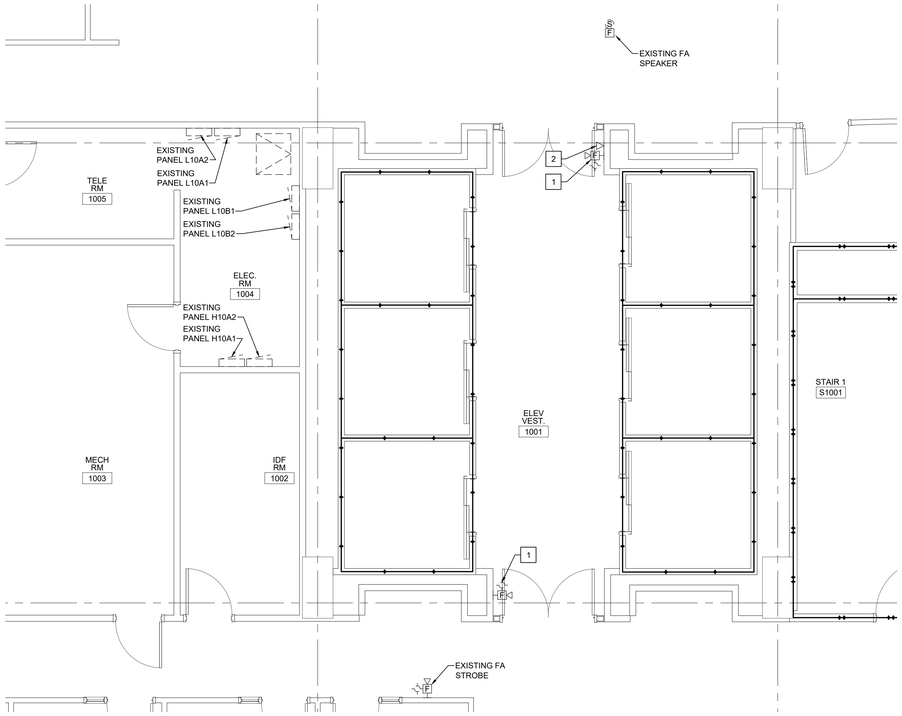
SHEET NAME:
FIRE ALARM
ENL. PLAN
LEVEL 3

ORIG SUBMISSION: 2024.10.29

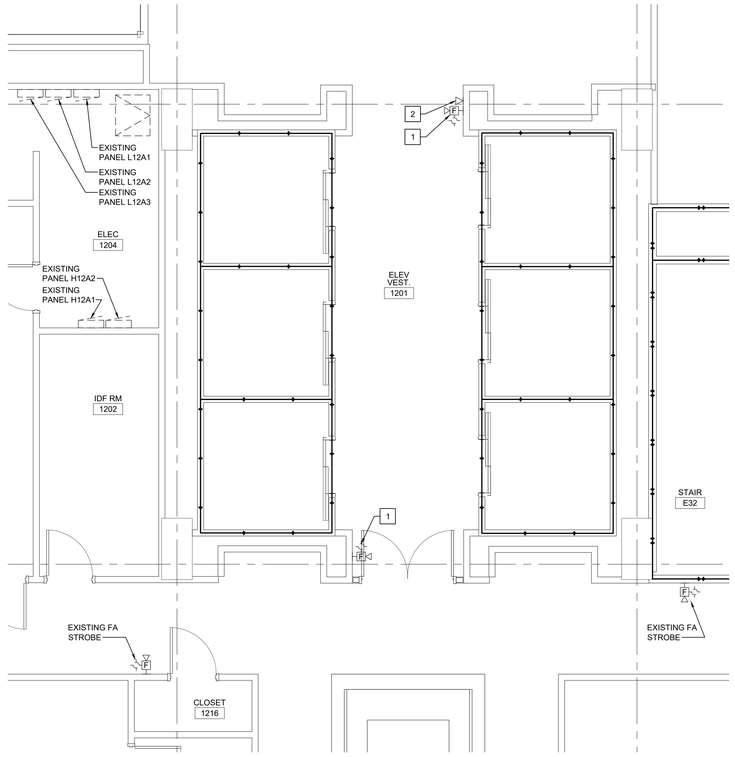
SHEET:
F406

100% PERMIT SET

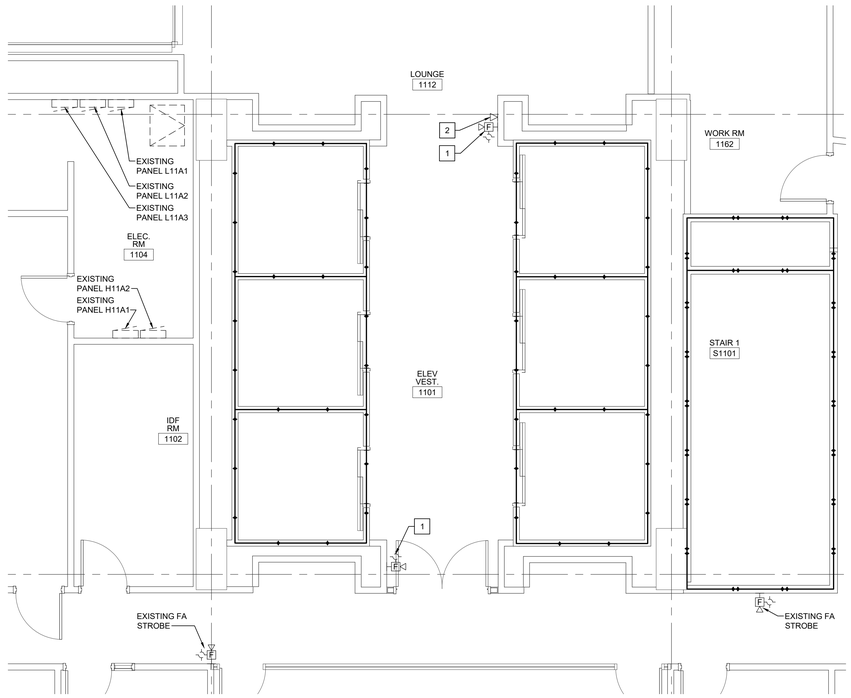
THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ORIGINAL PAGE SIZE



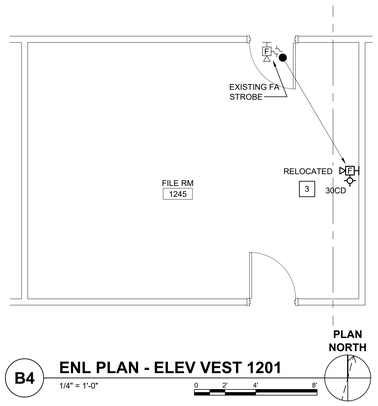
C1 **ENL PLAN - ELEV VEST 1001**
1/4" = 1'-0"



C4 **ENL PLAN - ELEV VEST 1201**
1/4" = 1'-0"



A1 **ENL PLAN - ELEV VEST 1101**
1/4" = 1'-0"



B4 **ENL PLAN - ELEV VEST 1201**
1/4" = 1'-0"

KEYED NOTES

1. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED AND APPROVED TO PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE FA DEVICE OPERATIONAL.
2. FIRE PHONE: DEVICE MUST BE TESTED AND APPROVED TO PRIOR TO PROJECT COMPLETION, IF NOT OPERATING CONTRACTOR MUST MAKE PHONE OPERATIONAL.
3. EXISTING FA SPEAKER STROBE: RELOCATE DEVICE IN LOCATION INDICATED. EXTEND EXISTING NAC CIRCUIT AS REQUIRED. DEVICE MUST BE TESTED AND APPROVED PRIOR TO PROJECT COMPLETION.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

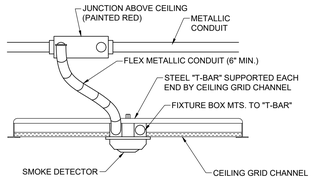
SHEET NAME:
FIRE ALARM
ENL. PLANS
LEVELS 10, 11 AND 12

ORIG SUBMISSION: 2024.10.29

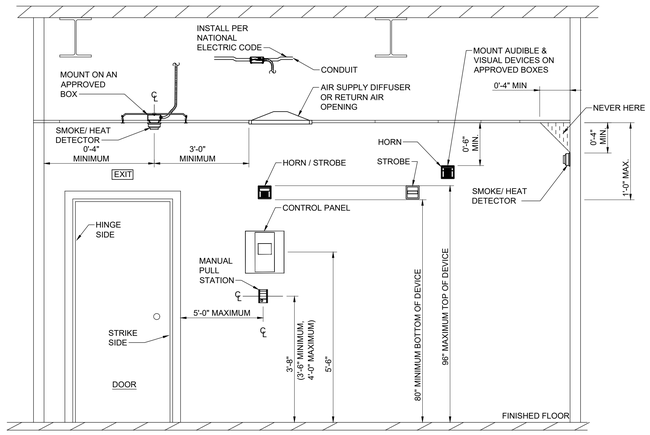
SHEET:
F407

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZES

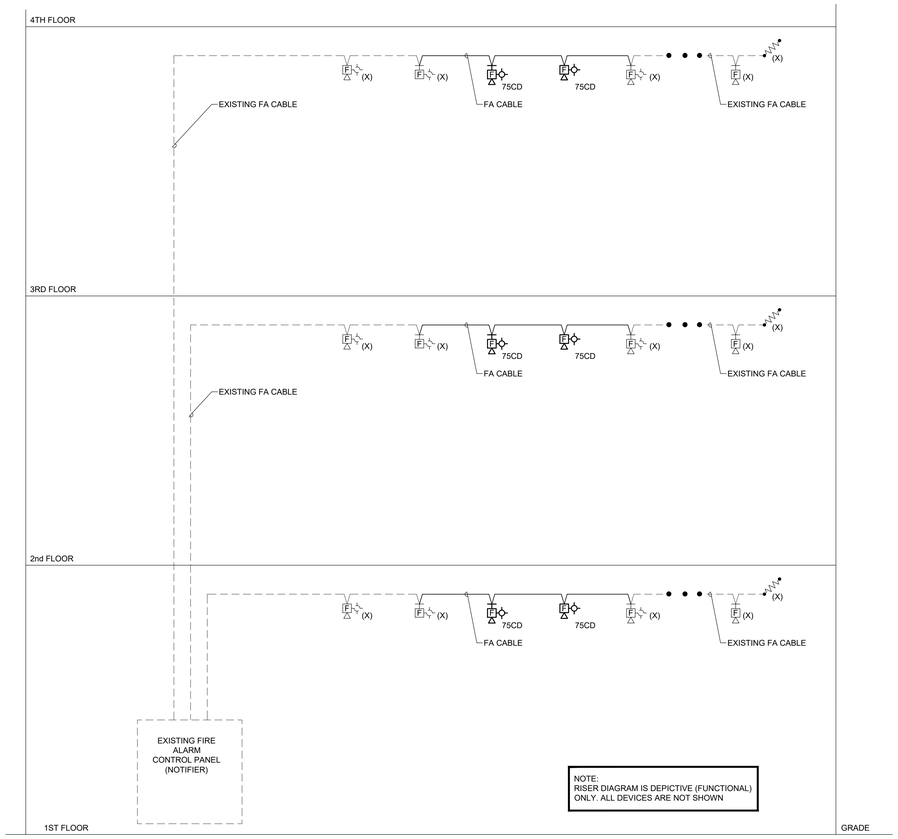


D1 **TYPICAL CEILING MOUINTED DEVICE DETAIL**
NOT TO SCALE



NOTE:
DETAIL SHOWN FOR REFERENCE ONLY, NOT ALL DEVICES ARE INDICATED ON PLANS.

D3 **DEVICE MOUNTING DETAIL**
NOT TO SCALE



A3 **PARTIAL FIRE ALARM RISER DIAGRAM**
NOT TO SCALE

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
15cd	FIRE ALARM SPEAKER/STROBE DEVICE, 80" AFF, "15cd" INDICATES CANDELA RATING
15cd	FIRE ALARM SPEAKER/STROBE DEVICE, CEILING MOUNTED, "15cd" INDICATES CANDELA RATING
15cd	FIRE ALARM VISUAL (ONLY) DEVICE, 80" AFF, "15cd" INDICATES CANDELA RATING
15cd	FIRE ALARM VISUAL (ONLY) CEILING MOUNTED "15cd" INDICATES CANDELA RATING
FACP	FIRE ALARM CONTROL PANEL (FACP)

(SYMBOLS SHOWN FOR REFERENCE ONLY AND MAY NOT IMPLY CONTRACTUAL REQUIREMENTS)

MANUAL FIRE ALARM SYSTEM NOTES

1. AS A MINIMUM THE FIRE ALARM SYSTEM SHALL INCLUDE SPEAKER/STROBES AND STROBES WITH FIRE RATED CABLE. THE FIRE ALARM SYSTEM SHALL MEET NFPA REQUIREMENTS, THE NATIONAL ELECTRICAL CODE, THE STATE CODES, AND THE LOCAL BUILDING CODES.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLE, MATERIALS AND EQUIPMENT AS SHOWN ON THE DRAWINGS/OR HEREIN SPECIFIED. ALL SYSTEM COMPONENTS SPECIFIED HEREIN, AS WELL AS THEIR INSTALLATION, SHALL COMPLY WITH APPLICABLE STANDARDS OF THE NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION, AND LOCAL CODES HAVING AUTHORITY. ALL EQUIPMENT SHALL BE UL LISTED FOR FIRE ALARM SYSTEM USE.
3. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED AND CONNECTED UNDER THE DIRECTION AND SUPERVISION OF A MANUFACTURER'S REPRESENTATIVE. UPON COMPLETION OF INSTALLATION, THE MANUFACTURER'S REPRESENTATIVE SHALL PERFORM ALL OPERATIONAL TESTS AND ADJUSTMENTS AND CERTIFY IN WRITING THAT THE SYSTEM IS PROPERLY INSTALLED AND FUNCTIONS AS SPECIFIED.
4. ALL WIRING SHALL BE SYSTEM OR UL LISTED FIRE RATED CABLE AND COLOR CODED TO ALLOW EASE OF IDENTIFICATION OF THE DIFFERENT CIRCUITRY REQUIRED FOR THE SYSTEM. NO CIRCUIT SHALL CHANGE COLOR AT ANY POINT END TO END.
5. THE. MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE SUPERVISION OF FINAL SYSTEM PANEL CONNECTIONS, PERFORM A COMPLETE FUNCTIONAL TEST OF THE SYSTEM, AND A WRITTEN REPORT TO THE CONTRACTOR ATTESTING THE PROPER OPERATION OF THE COMPLETED SYSTEM.
6. THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY FOR THE ALARM SYSTEM, ALONG WITH OTHER FORMS OR CERTIFICATE REQUIRED BY THE LOCAL JURISDICTION.
7. SYSTEM OPERATION

7.1 THE OPERATION OF ANY MANUAL PULL STATION, OR ANY OTHER SYSTEM ALARM INDICATOR, SHALL CAUSE ALL ALARM SIGNALS, BOTH AUDIBLE AND VISUAL TO ENERGIZE.

7.2 THE DEVICE FROM WHICH THE ALARM ORIGINATED SHALL BE INDICATED AT THE CONTROL PANEL, BOTH AUDIBLY AND VISUALLY. THE APPROPRIATE ALARM LED SHALL PULSE AND SHALL BE ILLUMINATED CONTINUOUSLY AFTER IT HAS BE ACKNOWLEDGED AT THE CONTROL PANEL.

7.3 ALL DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.

8. EQUIPMENT SHALL CONSIST OF THE FOLLOWING:

8.1 COMBINATION AUDIO AND VISUAL SIGNAL: AUDIO VISUAL FIRE ALARM SIGNAL SHALL BE SURFACE MOUNTED WITH FLASHER. UNITS SHALL BE RED IN COLOR ON WALLS AND WHITE ON CEILINGS. THE LEXAN LENS SHALL BE TRIANGULAR IN SHAPE TO SIGNIFICANTLY IMPROVE SIDE VIEWING VISIBILITY. THE UNIT SHALL MOUNT ON A STANDARD FOUR INCH ELECTRICAL BOX. A MATCHING TRIM PLATE SHALL BE SUPPLIED. THE LENS SHALL BE LETTERED RED "FIRE". THE AUDIO VISUAL SIGNALS SHALL MEET REQUIREMENTS OF ADA.

9.1 ALL WIRING SHALL BE INSTALLED IN COMPLIANCE WITH N.E.C., NFPA 72, ALL STATE AND LOCAL REQUIREMENTS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

9.2 SLEEVE AND SEAL ALL PENETRATIONS THROUGH FIRE WALLS.

9.3 WIRING SHALL BE A MINIMUM OF NO. 14 AWG UNLESS OTHERWISE NOTED.

10. ALL WORK PERFORMED AND ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE.
11. SHOP DRAWINGS MUST BE SUBMITTED BY THE FIRE ALARM CONTRACTOR COMPLYING WITH THE FIRE ALARM PLAN REVIEW REQUIREMENTS POLICY - JANUARY 2006 BEFORE PERMITTING BY THE WILMINGTON FIRE DEPT. THESE DRAWINGS DO NOT CONSTITUTE APPROVAL AND MAY CHANGE AFTER A FULL REVIEW BY THE WILMINGTON FIRE DEPT. A SEPARATE PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.
12. IN CORRIDORS WHERE MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES ARE IN ANY FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION.
13. ALL FIRE ALARM WORK AND DEVICES SHALL BE INSTALLED AND TERMINATED BY A NICET LEVEL 2 FIRE ALARM TECHNICIAN.

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

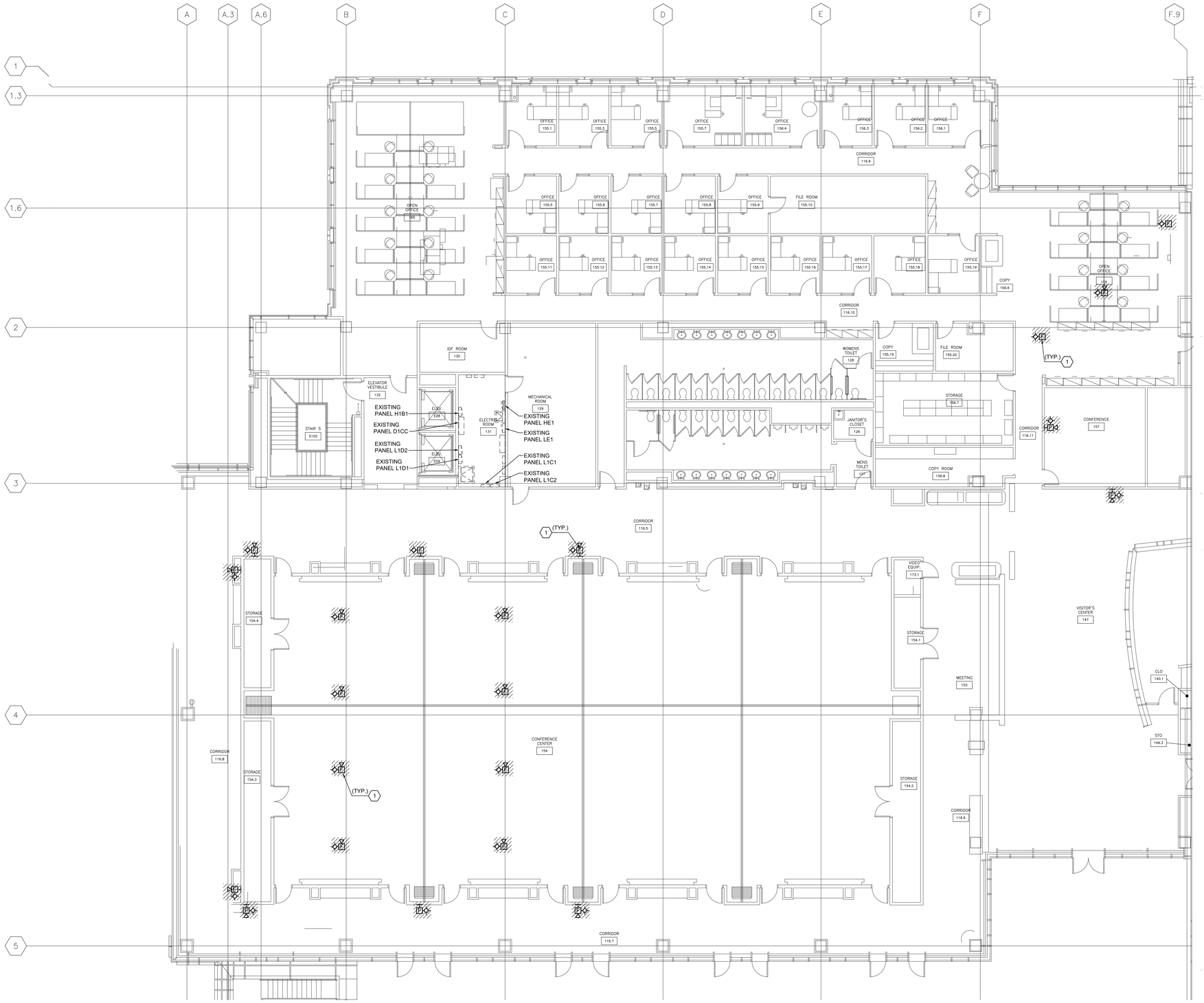
SHEET NAME:
FIRE ALARM LEGEND NOTES, DETAILS AND RISER

ORIG SUBMISSION: 2024.10.29

SHEET:
F-001

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



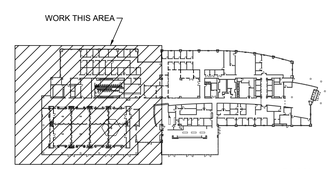
A1 **LEVEL 1 FLOOR PLAN - AREA "A"**
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

GENERAL NOTES

1. FA DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY FA DEVICES SPECIFICALLY NOTED TO REMAIN SHALL PROTECTED IN PLACE AND MUST BE TESTED AFTER CONSTRUCTION IS COMPLETE.
2. FA DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO WALL AND CEILING MOUNTED FA SPEAKERS, FA SPEAKER/STROBES, FA STROBES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. FA DEVICES INDICATED TO BE RELOCATED MUST BE REMOVED AND PROTECTED UNTIL INSTALL IN NEW LOCATION.
4. NOT ALL FA DEVICE ARE SHOWN ON PLANS. FA DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
5. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1 FA NOTIFICATION DEVICE: REMOVE FIRE ALARM DEVICE AND ASSOCIATED CABLING. REMOVE BOX AND CONDUIT. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.



A5 **KEY PLAN**
NOT TO SCALE
PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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CITY OF WILMINGTON SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

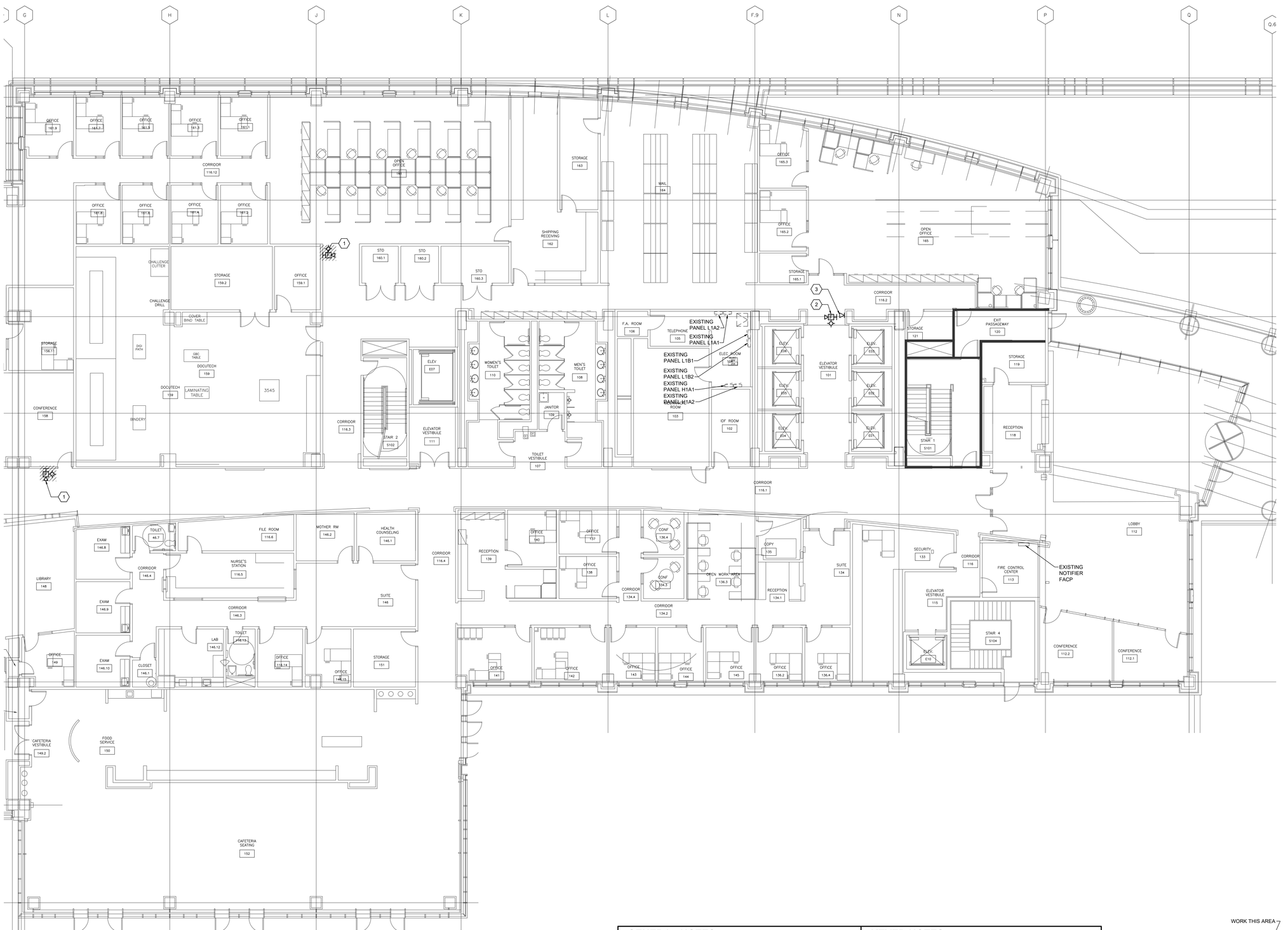
Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
LEVEL 1 FLOOR PLAN
AREA "A"
DEMOLITION
ORIG SUBMISSION: 2024.10.29

SHEET:
FD101

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SHEETS



A1 **LEVEL 1 FLOOR PLAN - AREA "B"**
1/8" = 1'-0"

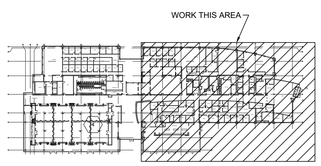
PLAN NORTH

GENERAL NOTES

1. FA DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY FA DEVICES SPECIFICALLY NOTED TO REMAIN SHALL PROTECTED IN PLACE AND MUST BE TESTED AFTER CONSTRUCTION IS COMPLETE.
2. FA DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO WALL AND CEILING MOUNTED FA SPEAKERS, FA SPEAKERSTROBES, FA STROBES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. FA DEVICES INDICATED TO BE RELOCATED MUST BE REMOVED AND PROTECTED UNTIL INSTALL IN NEW LOCATION.
4. NOT ALL FA DEVICE ARE SHOWN ON PLANS. FA DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
5. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FA NOTIFICATION DEVICE: REMOVE FIRE ALARM DEVICE AND ASSOCIATED CABLING. REMOVE BOX AND CONDUIT. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
2. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED PRIOR TO START OF DEMOLITION TO VERIFY DEVICE IS OPERATIONAL, PROTECT IN PLACE.
3. FIRE PHONE: DEVICE MUST BE TESTED PRIOR TO START OF DEMOLITION TO VERIFY DEVICE IS OPERATIONAL, PROTECT IN PLACE.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

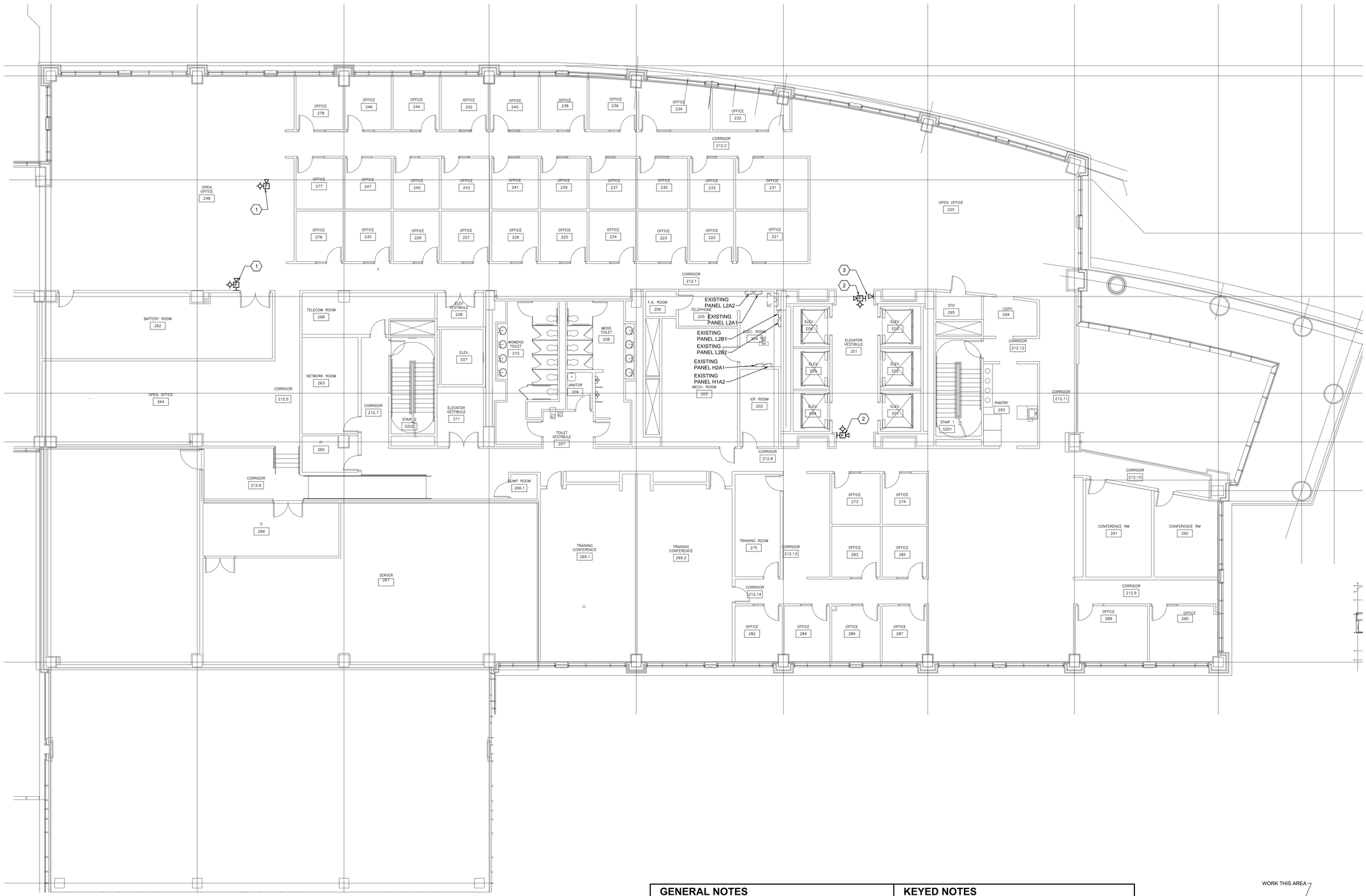
Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
LEVEL 1 FLOOR PLAN
AREA "B"
DEMOLITION
ORIG SUBMISSION: 2024.10.29

SHEET: **FD102**

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PAPER SIZE



A1 **LEVEL 2 FLOOR PLAN - AREA "B"**
1/8" = 1'-0"
0 4' 8' 16'

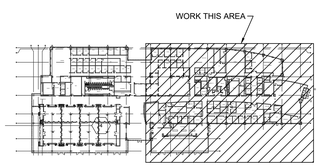
PLAN NORTH

GENERAL NOTES

1. FA DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY FA DEVICES SPECIFICALLY NOTED TO REMAIN SHALL PROTECTED IN PLACE AND MUST BE TESTED AFTER CONSTRUCTION IS COMPLETE.
2. FA DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO WALL AND CEILING MOUNTED FA SPEAKERS, FA SPEAKER/STROBES, FA STROBES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. FA DEVICES INDICATED TO BE RELOCATED MUST BE REMOVED AND PROTECTED UNTIL INSTALL IN NEW LOCATION.
4. NOT ALL FA DEVICE ARE SHOWN ON PLANS. FA DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
5. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FA NOTIFICATION DEVICE: RE-LOCATE FIRE ALARM DEVICE AS INDICATED ON ON SHEET F403, PROVIDE FA CABLE AS REQUIRED TO EXTEND TO NEW LOCATION. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
2. FA NOTIFICATION DEVICE: DEVICE MUST BE TESTED PRIOR TO START OF DEMOLITION TO VERIFY DEVICE IS OPERATIONAL, PROTECT IN PLACE.
3. FIRE PHONE: DEVICE MUST BE TESTED PRIOR TO START OF DEMOLITION TO VERIFY DEVICE IS OPERATIONAL, PROTECT IN PLACE.



PLAN NORTH

A5 **KEY PLAN**
NOT TO SCALE

CITY OF WILMINGTON
NORTH CAROLINA

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10/29/2024

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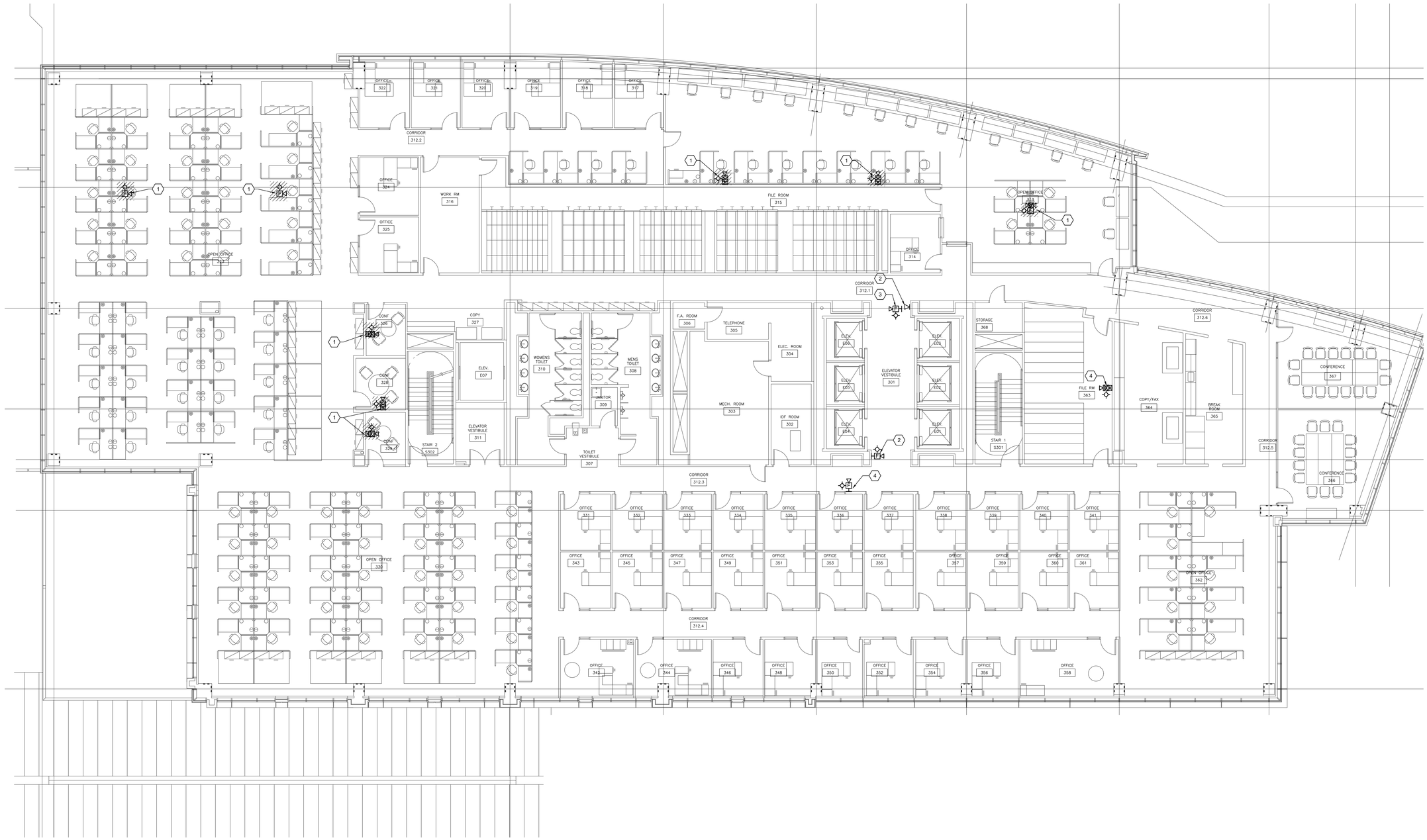
CITY OF WILMINGTON SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
LEVEL 2 FLOOR PLAN
AREA "B"
DEMOLITION
ORIG SUBMISSION: 2024.10.29

SHEET:
FD103
100% PERMIT SET



B1 **LEVEL 3 FLOOR PLAN**
1/8" = 1'-0"

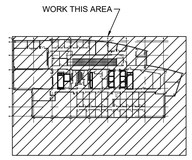
PLAN NORTH

GENERAL NOTES

1. FA DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY FA DEVICES SPECIFICALLY NOTED TO REMAIN SHALL PROTECTED IN PLACE AND MUST BE TESTED AFTER CONSTRUCTION IS COMPLETE.
2. FA DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO WALL AND CEILING MOUNTED FA SPEAKERS, FA SPEAKER/STROBES, FA STROBES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. FA DEVICES INDICATED TO BE RELOCATED MUST BE REMOVED AND PROTECTED UNTIL INSTALL IN NEW LOCATION.
4. NOT ALL FA DEVICE ARE SHOWN ON PLANS. FA DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
5. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FA NOTIFICATION DEVICE: REMOVE WALL MOUNTED FIRE ALARM DEVICE AND ASSOCIATED CABLING. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.
2. FA NOTIFICATION DEVICE: PROTECT IN PLACE.
3. FIRE PHONE: PROTECT IN PLACE.
4. FA NOTIFICATION DEVICE: RE-LOCATE FIRE ALARM DEVICE AS INDICATED ON ON SHEET F406, PROVIDE FA CABLE AS REQUIRED TO EXTEND TO NEW LOCATION. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.



PLAN NORTH

A5 **KEY PLAN**
NOT TO SCALE

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

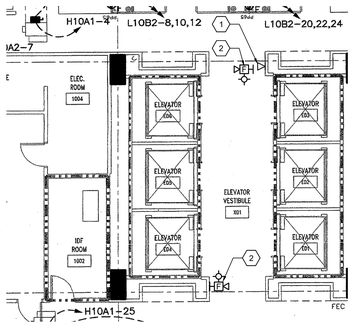
SHEET NAME:
FIRE ALARM
LEVEL 3 FLOOR PLAN
DEMOLITION

ORIG SUBMISSION: 2024.10.29

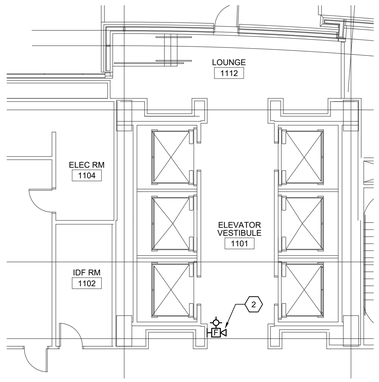
SHEET:
FD104

100% PERMIT SET

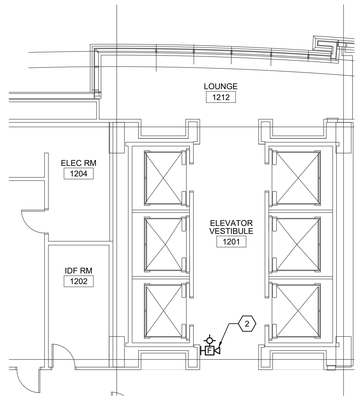
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE D



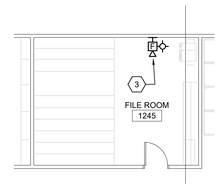
D1 LEVEL 10 FLOOR PLAN
1/8" = 1'-0"



D2 LEVEL 11 FLOOR PLAN
1/8" = 1'-0"



D4 LEVEL 12 FLOOR PLAN
1/8" = 1'-0"



D5 LEVEL 12 FLOOR PLAN FILE RM 1245
1/8" = 1'-0"

GENERAL NOTES

1. FA DEVICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY FA DEVICES SPECIFICALLY NOTED TO REMAIN SHALL PROTECTED IN PLACE AND MUST BE TESTED AFTER CONSTRUCTION IS COMPLETE.
2. FA DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO WALL AND CEILING MOUNTED FA SPEAKERS, FA SPEAKER/STROBES. FA STROBES AND MUST BE PROTECTED IN PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
3. FA DEVICES INDICATED TO BE RELOCATED MUST BE REMOVED AND PROTECTED UNTIL INSTALL IN NEW LOCATION.
4. NOT ALL FA DEVICE ARE SHOWN ON PLANS. FA DEVICES NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.
5. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE, UON.

KEYED NOTES

1. FIRE PHONE: PROTECT IN PLACE.
2. FA NOTIFICATION DEVICE: PROTECT IN PLACE.
3. FA NOTIFICATION DEVICE: RE-LOCATE FIRE ALARM DEVICE AS INDICATED ON ON SHEET B4 / F407, PROVIDE FA CABLE AS REQUIRED TO EXTEND TO NEW LOCATION. ANY UPSTREAM AND DOWNSTREAM FA DEVICES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.

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SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

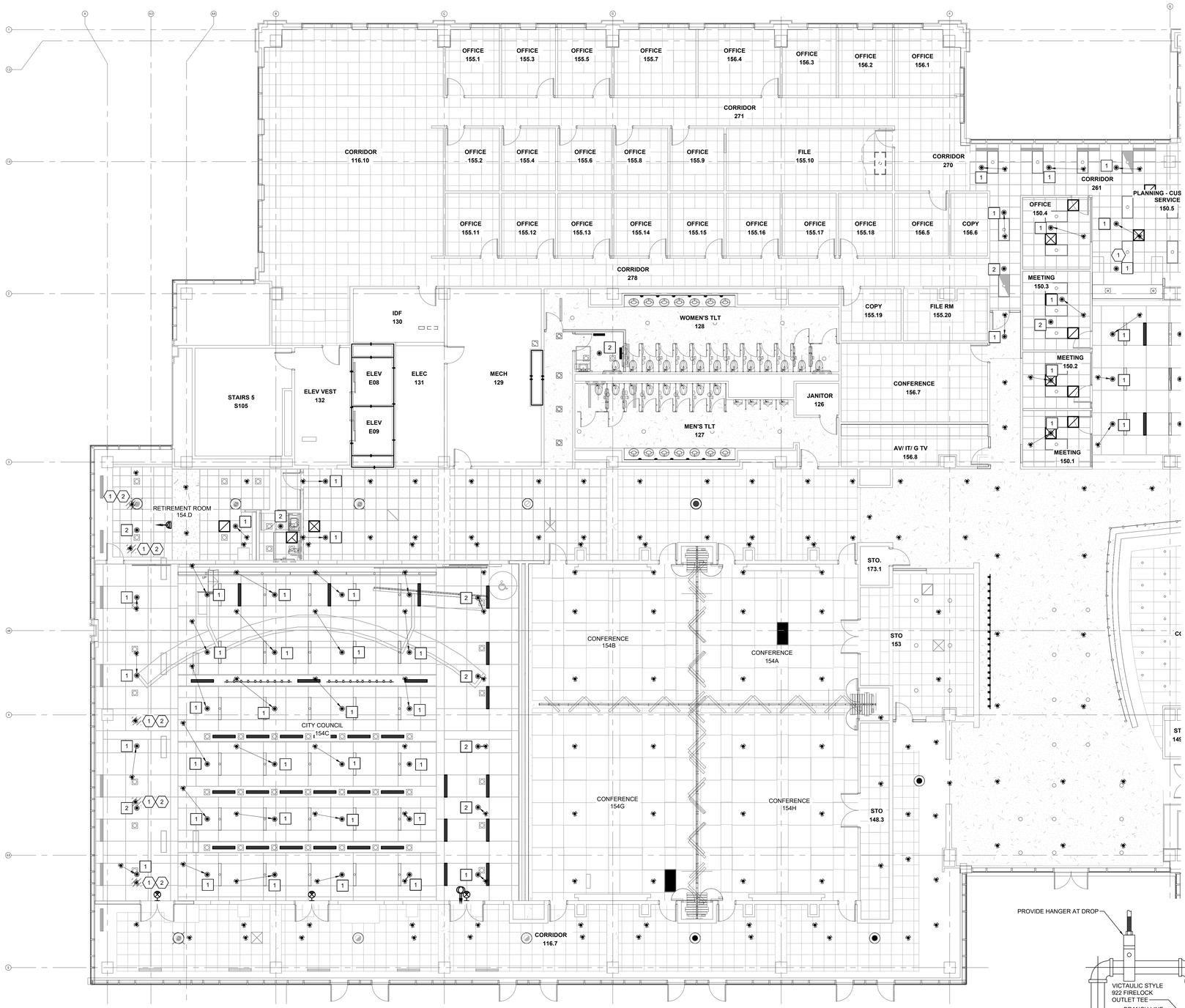
Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM
LEVEL 10 FLOOR
PLAN DEMOLITION

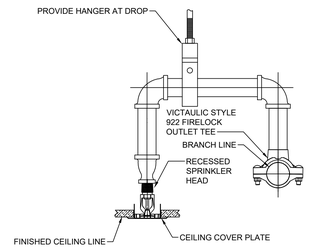
ORIG SUBMISSION: 2024.10.29

SHEET:
FD105

100% PERMIT SET



A1 **LEVEL 1 FLOOR PLAN - AREA "A"**
1/8" = 1'-0"



A5 **ARM OVER DETAIL**
NOT TO SCALE

GENERAL NOTES

1. CONTRACTOR SHALL MODIFY WET-PIPE, FIRE-SUPPRESSION SPRINKLERS, INCLUDING PIPING, AUTOMATIC SPRINKLERS, AND ACCESSORIES AS NECESSARY FOR COMPLETE INSTALLATION. WET PIPE SPRINKLER SYSTEM MODIFICATION SHALL BE PROVIDED IN AREAS INDICATED ON THE DRAWINGS AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. THE SPRINKLER SYSTEM SHALL PROVIDE FIRE SPRINKLER PROTECTION FOR THE ENTIRE MODIFIED AREA. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 - 2013. COMPLIANCE WITH REFERENCED NFPA STANDARDS IS MANDATORY. PIPE SIZES, WHICH ARE NOT INDICATED ON DRAWINGS, SHALL BE DETERMINED BY HYDRAULIC CALCULATION. THE CONTRACTOR SHALL DESIGN ANY PORTIONS OF THE SPRINKLER SYSTEM INCLUDING LOCATING SPRINKLERS, PIPING AND EQUIPMENT, AND SIZE PIPING AND EQUIPMENT WHEN THIS INFORMATION IS NOT INDICATED ON THE DRAWINGS OR IS NOT SPECIFIED HEREIN. THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED ON HYDRAULIC CALCULATIONS, AND THE OTHER PROVISIONS SPECIFIED HEREIN.
2. PIPING OFFSETS, FITTINGS, AND ANY OTHER ACCESSORIES REQUIRED SHALL BE FURNISHED AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION AND TO ELIMINATE INTERFERENCE WITH OTHER CONSTRUCTION. SPRINKLER SHALL BE INSTALLED OVER AND UNDER DUCTS, PIPING AND PLATFORMS WHEN SUCH EQUIPMENT CAN NEGATIVELY EFFECT OR DISRUPT THE SPRINKLER DISCHARGE PATTERN AND COVERAGE.
3. ALL EQUIPMENT DELIVERED AND PLACED IN STORAGE SHALL BE HOUSED IN A MANNER TO PRECLUDE ANY DAMAGE FROM THE WEATHER, HUMIDITY AND TEMPERATURE VARIATIONS, DIRT AND DUST, OR OTHER CONTAMINANTS. ADDITIONALLY, ALL PIPES SHALL EITHER BE CAPPED OR PLUGGED UNTIL INSTALLED.
4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF THE WORK, VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE GENERAL CONTRACTOR OF ANY DISCREPANCY BEFORE PERFORMING THE WORK.
5. WORK SPECIFIED SHALL BE PERFORMED UNDER THE SUPERVISION OF AND CERTIFIED BY THE FIRE PROTECTION SPECIALIST. THE FIRE PROTECTION SPECIALIST SHALL BE AN INDIVIDUAL WHO IS A REGISTERED PROFESSIONAL ENGINEER AND A FULL MEMBER OF THE SOCIETY OF FIRE PROTECTION ENGINEERS OR WHO IS CERTIFIED AS A LEVEL III TECHNICIAN BY NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) IN THE AUTOMATIC SPRINKLER SYSTEM LAYOUT SUBFIELD OF FIRE PROTECTION ENGINEERING TECHNOLOGY IN ACCORDANCE WITH NICET 1014-7. THE FIRE PROTECTION SPECIALIST SHALL BE REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF THE TYPE AND COMPLEXITY OF SYSTEM SPECIFIED IN THESE NOTES AND DRAWINGS.
6. WORK SPECIFIED SHALL BE PERFORMED BY THE SPRINKLER SYSTEM INSTALLER. THE SPRINKLER SYSTEM INSTALLER SHALL BE REGULARLY ENGAGED IN THE INSTALLATION OF THE TYPE AND COMPLEXITY OF SYSTEM SPECIFIED IN THESE NOTES AND DRAWINGS.
7. FLUSH, TEST, AND INSPECT SPRINKLER PIPING ACCORDING TO NFPA 13 - 2013, "SYSTEM ACCEPTANCE" CHAPTER. REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS TEST PROCEDURES AND RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY RESULTS ARE OBTAINED.
8. MATERIALS AND EQUIPMENT SHALL BE STANDARD PRODUCTS OF A MANUFACTURER REGULARLY ENGAGED IN THE MANUFACTURE OF SUCH PRODUCTS AND SHALL ESSENTIALLY DUPLICATE ITEMS THAT HAVE BEEN IN SATISFACTORY USE FOR AT LEAST 2 YEARS. ALL EQUIPMENT SHALL HAVE A NAMEPLATE THAT IDENTIFIES THE MANUFACTURER'S NAME, ADDRESS, TYPE OR STYLE, MODEL OR SERIAL NUMBER, AND CATALOG NUMBER.

DEMOLITION KEYED NOTES

1. REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
2. SPRINKLER EXISTS IN THE REFLECTED CEILING CLOUD.

RENOVATION KEYED NOTES

1. EXISTING SPRINKLER DROP. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.
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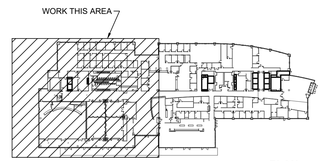

A6 **KEY PLAN**
NOT TO SCALE
PLAN NORTH

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10/29/2024

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SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401
LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION
LEVEL 1 FLOOR PLAN
AREA "A"

ORIG SUBMISSION: 2024.10.29

SHEET:
FP101

100% PERMIT SET

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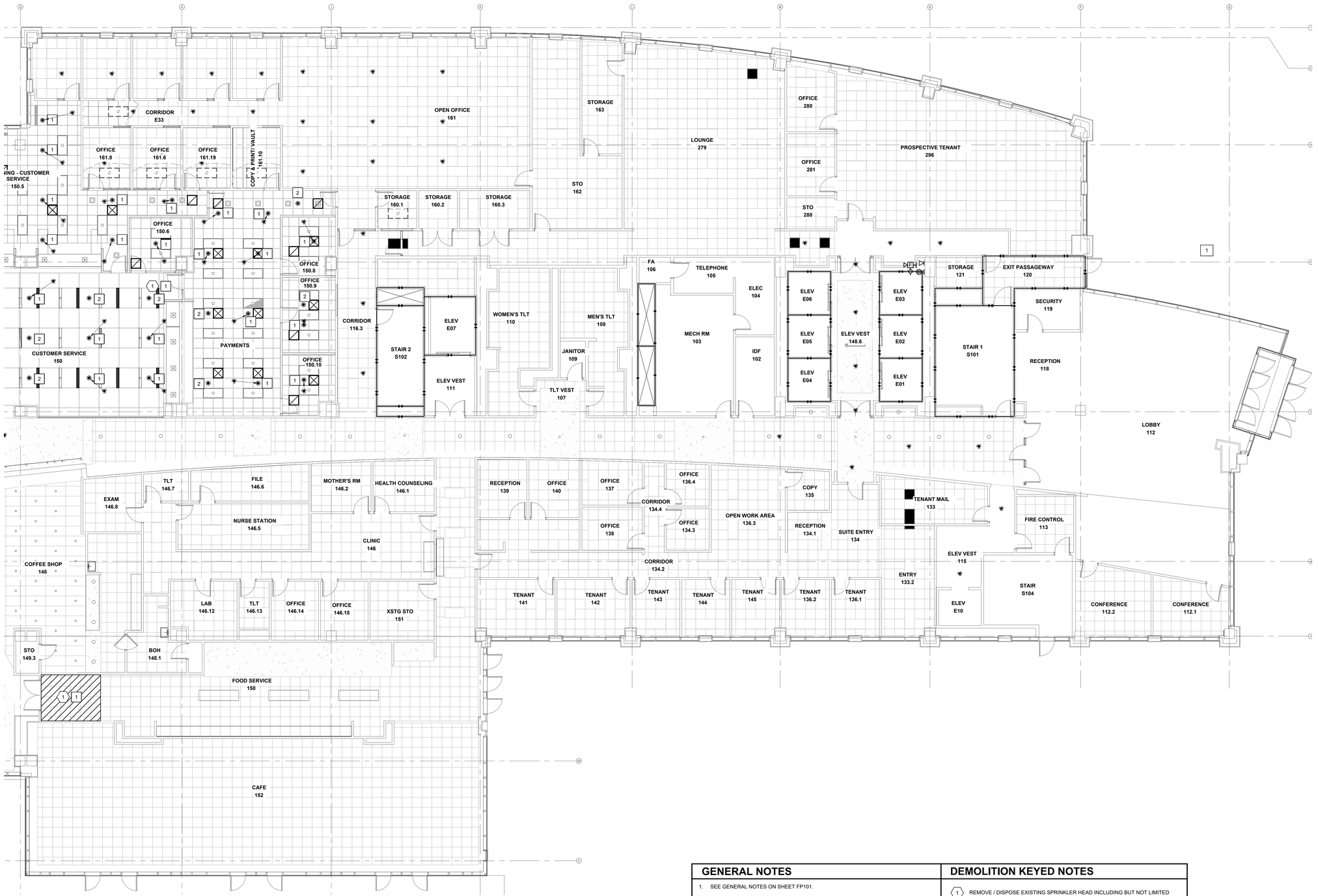
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



A1 LEVEL 1 FLOOR PLAN - AREA "B"
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1. REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

RENOVATION KEYED NOTES

1. EXISTING SPRINKLER DROP. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.
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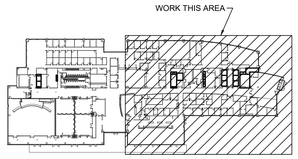

A6 KEY PLAN
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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION
LEVEL 1 FLOOR PLAN
AREA "B"

ORIG SUBMISSION: 2024.10.29

SHEET:
FP102

100% PERMIT SET

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A1 LEVEL 2 FLOOR PLAN - AREA "A"
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1 REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

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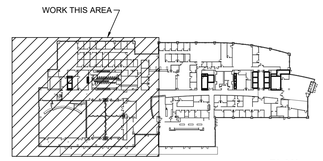
2 PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC..



A6 KEY PLAN
NOT TO SCALE
PLAN NORTH
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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 2 FLOOR PLAN AREA "A"

ORIG SUBMISSION: 2024.10.29

SHEET:
FP103

100% PERMIT SET

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A1 LEVEL 2 FLOOR PLAN - AREA "B"
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1. REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

RENOVATION KEYED NOTES

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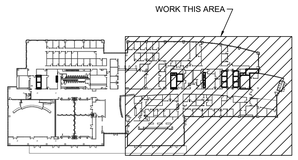
2. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC..



PLAN NORTH

A6 KEY PLAN
NOT TO SCALE
NOT SET

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 2 FLOOR PLAN AREA "B"

ORIG SUBMISSION: 2024.10.29

SHEET:
FP104

100% PERMIT SET

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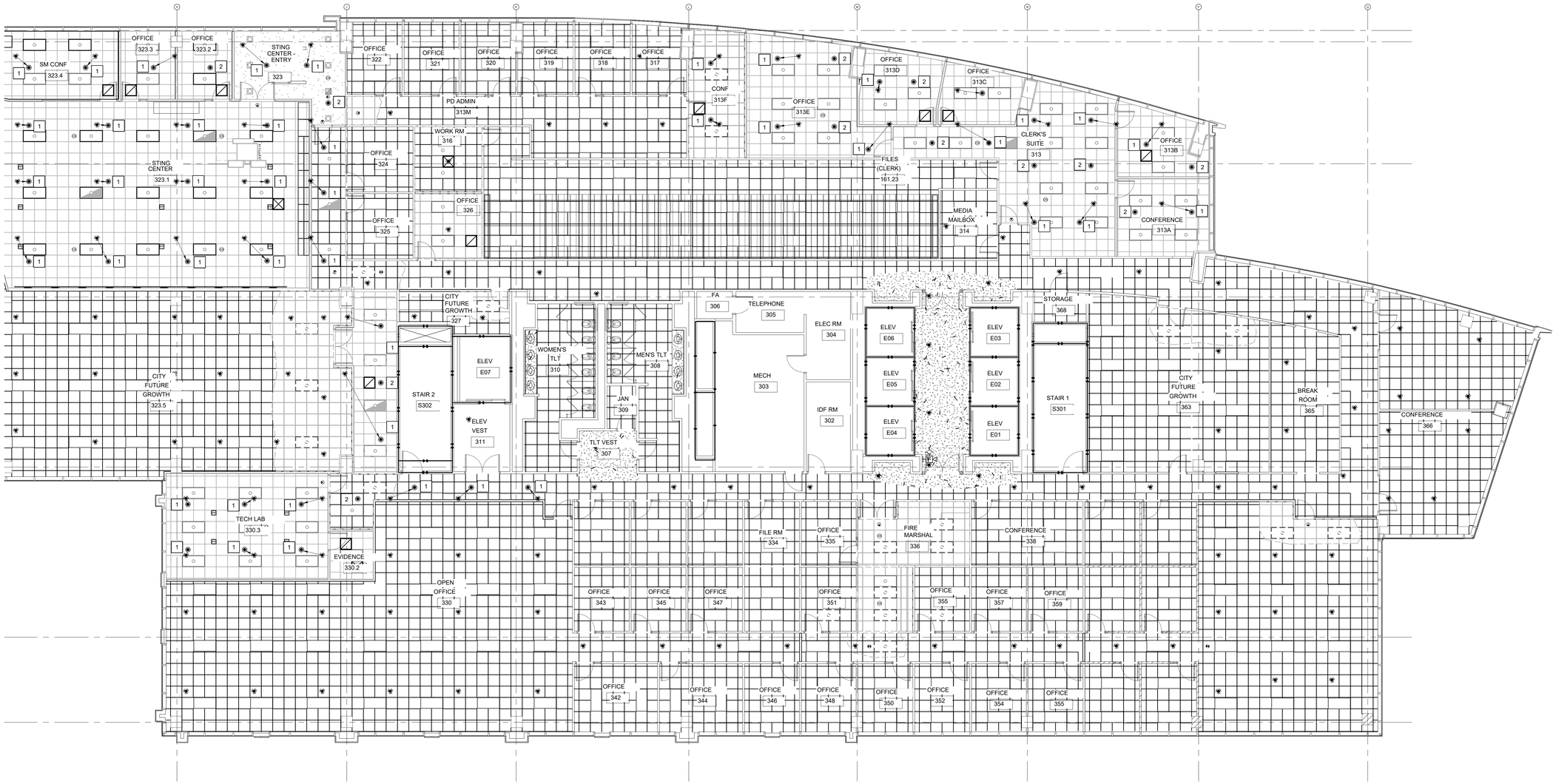

A1 **LEVEL 3 FLOOR PLAN**
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1. REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

RENOVATION KEYED NOTES

1. EXISTING SPRINKLER DROP. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.
2. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC..

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 3 FLOOR PLAN

ORIG SUBMISSION: 2024.10.29

SHEET:
FP105

100% PERMIT SET

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A1 LEVEL 10 FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1 REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

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1 PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.

CITY OF WILMINGTON NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23551 DAVID M. HAHN

10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 10 FLOOR PLAN

ORIG SUBMISSION: 2024.10.29

SHEET:
FP106

100% PERMIT SET



A1 LEVEL 11 FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'

PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1. REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

RENOVATION KEYED NOTES

1. PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE

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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 11 FLOOR PLAN

ORIG SUBMISSION: 2024.10.29

SHEET:
FP107

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



A1 LEVEL 12 FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'

PLAN NORTH

GENERAL NOTES

1. SEE GENERAL NOTES ON SHEET FP101.

DEMOLITION KEYED NOTES

1 REMOVE / DISPOSE EXISTING SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

RENOVATION KEYED NOTES

1 PROVIDE NEW SPRINKLER HEAD INCLUDING BUT NOT LIMITED TO SPRINKLER HEAD, HANGERS, SUPPORTS, ANCHORS, INSERTS, ETC.. PROVIDE ADDITIONAL SPRINKLER PIPING AS REQUIRED TO ADJUST TO NEW CEILING ELEVATION, OR RELOCATION AS NECESSARY TO PROVIDE PROPER COVERAGE OR AVOID NEW CONSTRUCTION.

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE PROTECTION LEVEL 12 FLOOR PLAN

ORIG SUBMISSION: 2024.10.29

SHEET:
FP108

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PLOT SHEETS

MECHANICAL SPECIFICATIONS

PART 1 GENERAL

1.1 SCOPE OF WORK: THESE DRAWINGS AND SPECIFICATIONS DESCRIBE THE SCOPE OF WORK REQUIRED FOR PROJECT MECHANICAL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR COMPLETE, FULLY FUNCTIONING MECHANICAL SYSTEMS COMPLYING WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

1.2 CONTRACTOR: THE WORD "CONTRACTOR" AS USED HEREIN SHALL MEAN THE HVAC INSTALLER UNLESS OTHERWISE QUALIFIED.

1.3 DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND MAY NOT COMPLETELY DESCRIBE EVERY DETAIL OF THE INSTALLATION, HOWEVER, CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE SYSTEMS INCLUDING ALL REQUIRED EQUIPMENT AND ACCESSORIES TO OBTAIN FULLY FUNCTIONING HVAC SYSTEMS.

1.4 CODE COMPLIANCE: COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND CODES, INSOFAR AS THEY APPLY:

A. NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION AND REVISIONS

B. LOCAL JURISDICTION REQUIREMENTS: INCLUDE ALL WORK TO COMPLY WITH CODES WHETHER INDICATED ON DRAWINGS OR NOT. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND CODES PRIOR TO BEGINNING WORK.

1.5 PERMITS AND INSPECTIONS: OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., REQUIRED FOR THE WORK AND PAY FOR SAME. FURNISH A FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE OF THE WORK.

1.6 MANUFACTURER'S RECOMMENDATIONS: INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1.7 WORKMANSHIP: UTILIZE SKILLED MECHANICS TO OBTAIN A HIGH QUALITY PROFESSIONAL FINISH INSTALLATION WHEN COMPLETED. WORK OF UNACCEPTABLE QUALITY SHALL BE REMOVED AND REWORKED AT NO ADDITIONAL COST. ENGINEER SHALL BE THE JUDGE OF WORKMANSHIP AND THEIR OPINION WILL BE FINAL. IN ADDITION, ANY EXISTING CONSTRUCTION DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT NO ADDITIONAL COST.

1.8 SUPERVISION: PROVIDE SKILLED SUPERINTENDENTS TO SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL INSPECTION.

1.9 PROGRESS OF WORK: PERFORM WORK IN ACCORDANCE WITH SCHEDULE AND REQUIREMENTS OF THE OWNER. UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR DELAY THE OVERALL PROJECT SCHEDULE.

1.10 COORDINATION: COORDINATE MECHANICAL WORK WITH THE WORK OF OTHER TRADES. LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. LAYOUT MECHANICAL WORK SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES. VERIFY ACTUAL BUILDING STRUCTURE PRIOR TO DUCT FABRICATION AND ADJUST ARRANGEMENT AS REQUIRED. INCLUDE ALL OFFSETS IN DUCTS, FITTINGS, PIPING, ETC. AS REQUIRED TO PROPERLY INSTALL EQUIPMENT.

1.11 EQUIPMENT LOCATIONS: DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT.

1.12 LISTING AND LABELING: ALL EQUIPMENT SHALL BE LABELED OR LISTED BY UL OR OTHER APPROVED TESTING AGENCY WHERE REQUIRED.

1.13 STORAGE SPACE: CONSULT WITH THE OWNER REGARDING JOB SITE STORAGE FOR MECHANICAL MATERIALS TO BE INSTALLED UNDER THIS PROJECT. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED.

1.14 CLEANUP: REMOVE ALL DEBRIS GENERATED IN THE ACCOMPLISHMENT OF WORK UNDER THIS PROJECT. CLEAN, REPLACE OR REPAIR ALL SURFACES SOILED OR DAMAGED DURING THE COURSE OF THE WORK. REMOVE DEBRIS DAILY SO TO MAINTAIN SAFE WORKING CONDITIONS.

1.15 SUBMITTALS: SUBMIT ONE (1) ELECTRONIC COPY OF DESCRIPTIVE DATA FOR MECHANICAL EQUIPMENT AND MATERIALS INCLUDING GRILLES AND DAMPERS FOR APPROVAL BY THE ENGINEER, CLEARLY IDENTIFY ALL ITEMS.

1.16 OPERATING AND MAINTENANCE MANUALS: SUBMIT TWO COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT, INCLUDING NECESSARY CUT SHEETS, CHARTS, WRITTEN INSTRUCTIONS, WIRING DIAGRAMS, FINAL AS-BUILT DRAWINGS WITH BALANCED AIRFLOWS INDICATED, ETC. BIND IN SUITABLE HARD BACK RING BINDERS, PROPERLY INDEXED, AND DELIVER TO THE OWNER PRIOR TO BUILDING OCCUPANCY. IN ADDITION, AFFIX A FOLDER WITH TYPICAL "OWNER'S INSTRUCTIONS" AND "MAINTENANCE INFORMATION" INSIDE THE MECHANICAL EQUIPMENT AS APPLICABLE. THE FOLDER SHALL ALSO INCLUDE A COMPLETE STARTUP LOG FOR THE EQUIPMENT.

1.17 RECORD DRAWINGS: MAINTAIN ONE SET OF "RED-LINED" RECORD DRAWINGS ON SITE AT ALL TIMES AND PROVIDE DRAWINGS TO ENGINEER PRIOR TO FINAL INSPECTION.

1.18 WARRANTY: WARRANTY THE MATERIALS AND WORKMANSHIP COVERED BY THESE DRAWINGS AND SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. REPAIR AND/OR REPLACE ANY PARTS OF ANY SYSTEM THAT MAY PROVE TO BE DEFECTIVE AT NO ADDITIONAL COST TO THE OWNER WITHIN THE WARRANTY PERIOD. PROVIDE 5 YEAR WARRANTY FOR ALL AIR CONDITIONING COMPRESSORS. FURNISH WARRANTY CERTIFICATES FOR ALL MECHANICAL EQUIPMENT. WARRANTY TO COMMENCE UPON DATE OF ACCEPTANCE OF WORK BY OWNER.

1.19 EXISTING BUILDINGS AND CONSTRUCTION

A. WORK UNDER THIS CONTRACT IS TO BE PERFORMED IN AN EXISTING BUILDING. BUILDING LAYOUT INDICATED IS DEVELOPED FROM EXISTING RECORD DOCUMENTS AND LIMITED FIELD VERIFICATION FOR THE PURPOSES OF DESCRIBING THE WORK. VERIFY ALL EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO SUIT ACTUAL FIELD CONDITIONS.

B. PERFORM ALL WORK IN ACCORDANCE WITH SAFETY REGULATIONS.

C. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT EXPRESS WRITTEN INSTRUCTIONS FROM ENGINEER. PROVIDE CUTTING AND PATCHING FOR EXISTING FINISHES AS REQUIRED.

D. COORDINATE INSTALLATION OF NEW MECHANICAL SYSTEMS WITH EXISTING BUILDING SYSTEMS. ADJUST ARRANGEMENTS AS REQUIRED TO ACCOMMODATE INTERFERENCES.

PART 2 MATERIALS

2.1 EQUIPMENT

A. MODELS AS SCHEDULED ON THE DRAWINGS, MANUFACTURERS INDICATED ARE INTENDED TO ESTABLISH THE QUALITY AND TYPE OF EQUIPMENT DESIRED. COMPARABLE EQUIPMENT WILL BE CONSIDERED FOR APPROVAL BY THE ARCHITECT/ENGINEER

B. INCLUDE ALL ACCESSORIES INDICATED OR AS RECOMMENDED BY THE MANUFACTURER FOR PROPER OPERATION.

2.2 DUCTWORK

A. BRANCH DUCTS: PROVIDE MANUFACTURED TAKE-OFF FITTINGS WITH EXTRACTOR AND VOLUME DAMPER WITH LOCKING QUADRANT OPERATOR AND INSULATION GUARD, GENERAL ENVIRONMENT CORPORATION OR EQUAL, FOR ALL BRANCH RUNOUTS TO SUPPLY REGISTERS AND DIFFUSERS. UNLESS OTHERWISE NOTED, MATCH SUPPLY BRANCH DUCT SIZE TO DIFFUSER SIZE.

B. ELBOWS: ALL SQUARE BENDS OR ELBOW FITTINGS SHALL BE FITTED WITH APPROVED TYPE DOUBLE THICKNESS TURNING VANES.

C. FLEXIBLE DUCT: FACTORY INSULATED, R-8, MINIMUM, UL 181 CLASS 1. MAXIMUM FLEX DUCT RUNOUT LENGTH NOT TO EXCEED 5' UNLESS OTHERWISE NOTED. INSTALL AND SUPPORT FLEXIBLE DUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

D. FIRE DAMPERS: PROVIDE SUITABLY LISTED FIRE DAMPERS IN DUCTS PENETRATING FIRE RATED CONSTRUCTION WHERE REQUIRED BY CODE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.

E. PROVIDE REMOVABLE ACCESS PANELS IN CEILINGS AND ACCESS DOORS (WITH AIR TIGHT GASKETS) IN DUCTWORK AS REQUIRED FOR ACCESS TO DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT.

F. PLENUMS: USE CODE APPROVED MATERIALS AND METHODS FOR ALL MECHANICAL WORK INSTALLED IN PLENUMS.

2.3 AIR DISTRIBUTION

A. DIFFUSERS AND REGISTERS: MODELS AS SCHEDULED ON THE DRAWINGS. MANUFACTURERS INDICATED ARE INTENDED TO ESTABLISH THE QUALITY AND TYPE OF EQUIPMENT DESIRED. COMPARABLE EQUIPMENT WILL BE CONSIDERED FOR APPROVAL BY THE ENGINEER. INCLUDE FINISH AND ACCESSORIES AS INDICATED.

2.4 INSULATION

A. DUCT INSULATION: R-8 MINIMUM, 2" FIBERGLASS BLANKET INSULATION, ASTM C553, TYPE II, 0.75 PCF CLASS F-1, ASTM 84E FLAME SPREAD/SMOKE DEVELOPED RATING LESS THAN 25/50. PROVIDE WITH FACTORY APPLIED ALL-PURPOSE, LAMINATED GLASS-FIBER-REINFORCED, FLAME-RETARDANT KRAFT PAPER AND ALUMINUM FOIL JACKET. INSTALL ON ALL CONCEALED HVAC SUPPLY, RETURN, MAKE-UP AIR DUCTS AND PLENUMS.

2.5 CONTROLS

A. TEMPERATURE CONTROLS: EXISTING

2.6 SUPPORTS

A. HANGERS, SUPPORTS, AND ANCHORS: SUPPORT AND FASTEN ALL DUCTWORK, PIPING, EQUIPMENT, ETC., SECURELY IN PLACE USING APPROVED STEEL HANGERS AND FASTENERS, CHAIN, STRAP, PERFORATED STRAP, WIRE HANGERS, OR WOOD PLUGS ARE PROHIBITED.

B. INCLUDE STEEL SUPPORTS, ANCHORS, FRAMES, BRACING, PLATES, BOLTS, NUTS, WASHERS, ETC. INCIDENTAL TO INSTALLATION OF WORK.

C. PROVIDE AUXILIARY STRUCTURAL MEMBERS WHERE REQUIRED BETWEEN MEMBERS OF THE STRUCTURE.

PART 3 EXECUTION

3.1 PREPARATION: REVIEW CONSTRUCTION DOCUMENTS AND VERIFY ARRANGEMENT WITH FIELD CONDITIONS. COORDINATE PROPOSED MECHANICAL EQUIPMENT AND SYSTEMS WITH ASSOCIATED WORK OF OTHER TRADES.

3.2 INSTALLATION: INSTALL ALL MECHANICAL WORK IN ACCORDANCE WITH CODE, MANUFACTURER'S RECOMMENDATIONS AND GOOD INDUSTRY PRACTICE. ARRANGE WORK TO ALLOW EASY ACCESS TO EQUIPMENT FOR SERVICE AND MAINTENANCE.

3.3 DUCTWORK: LAYOUT DUCTWORK TO AVOID INTERFERENCES AND MAXIMIZE USABLE SPACE IN THE BUILDING.

3.4 FIRE DAMPERS: INSTALL STRICTLY IN ACCORDANCE TO MANUFACTURER INSTRUCTIONS TO MAINTAIN RATING. KEEP ONE (1) HARD COPY OF INSTRUCTIONS ON SITE FOR INSPECTOR REVIEW.

3.5 DUCT INSULATION: INSTALL BLANKET INSULATION TIGHT AND SMOOTH. OVERLAP JOINTS 3 INCHES. SEAL JOINTS, BREAKS, AND PUNCTURES WITH VAPOR BARRIER COMPOUND.

3.6 HANGERS AND SUPPORTS: HANG AND SUPPORT EQUIPMENT, DUCTS AND PIPING IN A SUBSTANTIAL MANNER FROM THE BUILDING STRUCTURE. SPACE HANGERS IN ACCORDANCE WITH CODE AND SO AS TO AVOID EXCESS DEFLECTION OR SAG. PROVIDE SEISMIC DESIGN HANGERS WHERE REQUIRED. NO PORTION OF THE STRUCTURE SHALL BE OVER STRESSED BY THE HANGING OPERATION OR BY THE FINAL SUPPORTS. ATTACHMENTS DEEMED INADEQUATE BY THE ENGINEER SHALL BE REWORKED AS DIRECTED. PROVIDE VIBRATION ISOLATION FOR MOVING MACHINERY.

3.7 TESTING AND BALANCING: BALANCE AIR FLOWS TO OBTAIN AIR QUANTITIES SHOWN ON DRAWINGS. ADJUST DAMPERS FOR ALL AIR OUTLETS AND RECORD VELOMETER READINGS WHICH CORRESPOND TO DESIGN FLOW RATES AT EACH OUTLET. RECORD DESIGN AND FINAL READINGS ON APPROVED FORMS. SUBMIT TWO COPIES FOR REVIEW AND APPROVAL BY ENGINEER. UPON COMPLETION OF ALL BALANCING AND TESTING, SCHEDULE A TIME FOR ENGINEER TO PERFORM RANDOM CHECKING OF TYPICAL OUTLETS. CONTRACTOR SHALL PROVIDE TECHNICIANS AND MEASURING DEVICES FOR THIS TESTING.

3.8 CLEAN-UP: CLEAN ALL EQUIPMENT AND DEVICES AND INSTALL NEW FILTERS IN EQUIPMENT IMMEDIATELY PRIOR TO OWNER ACCEPTANCE AND OCCUPANCY.

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE APPROVED MANUFACTURERS	TYPE	SERVICE	NECK SIZE (IN.)	MODULE SIZE (IN.)	MATERIAL	FINISH	MOUNTING	NOTES	ACCESSORIES
S1	PRICE	AMD	METALAIRE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	6Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3,4,5	C
S2	PRICE	AMD	METALAIRE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	8Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3,4,5	C
S3	PRICE	AMD	METALAIRE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	10Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3,4,5	C
S4	PRICE	SDS100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 48" LONG	SUPPLY	10Ø	-	ALUMINUM	WHITE	T-BAR	1,2,3,4	A,B
S5	PRICE	SDS100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 48" LONG	SUPPLY	10Ø	-	ALUMINUM	WHITE	T-BAR	1,2,3,4	A,B
S6	PRICE	SDS100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 48" LONG	SUPPLY	10Ø	-	ALUMINUM	BLACK	CEILING SURFACE	1,2,3,4	A,B
S7	PRICE	SDS100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 24" LONG	SUPPLY	6Ø	-	ALUMINUM	WHITE	CEILING SURFACE	1,2,3,4	A,B
S8	PRICE	620	METALAIRE, TITUS	LOUVER FACE DIFFUSER	SUPPLY	12 X 6	-	ALUMINUM	WHITE	T-BAR	1,2,3,4	A,B
R1	PRICE	PDR	PRICE, TITUS	PERFORATED GRILLE	RETURN	22 X 22	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3,4,5	-
R2	PRICE	SDR100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 48" LONG	RETURN	-	-	ALUMINUM	WHITE	T-BAR	1,2,3,4	-
R3	PRICE	SDR150	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1.5" SLOT, 2-SLOT, 48" LONG	RETURN	-	-	ALUMINUM	WHITE	T-BAR	1,2,3,4	-
R4	PRICE	SDR150	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1.5" SLOT, 2-SLOT, 48" LONG	RETURN	-	-	ALUMINUM	BLACK	CEILING SURFACE	1,2,3,4	-
E1	PRICE	PDR	PRICE, TITUS	PERFORATED GRILLE	EXHAUST	22 X 22	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3,4	-
E2	PRICE	SDR100	METALAIRE, TITUS	LINEAR SLOT DIFFUSER, 1" SLOT, 2-SLOT, 24" LONG	EXHAUST	6Ø	-	ALUMINUM	WHITE	CEILING SURFACE	1,2,3,4	-

NOTES:
1 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
2 DUCT BRANCH CONNECTION SIZE TO BE EQUAL TO THE NECK SIZE OF DIFFUSER UNLESS NOTED OTHERWISE ON PLANS.
3 REFER TO ARCHITECT'S RCP FOR FINAL FINISH AND MOUNTING REQUIREMENTS.
4 PAINT ALL VISIBLE DUCTWORK THROUGH GRILLES AND REGISTERS FLAT BLACK.
5 MATCH EXISTING DIFFUSER STYLE.

ACCESSORIES:
A PATTERN CONTROLLERS
B INSULATED PLENUM BOX
C MANUAL VOLUME DAMPER

ABBREVIATIONS

TERM	ABBREVIATION	TERM	ABBREVIATION
ABOVE FINISHED FLOOR	AFF	INCH OF WATER GAUGE	INWG
ABOVE GROUND	AG	INDOOR UNIT	IDU
ABOVE SEA LEVEL	ASL	IRON PIPE SIZE	IPS
ACROSS THE LINE	ACL	KILOVOLT-AMP	KVA
AIR ADMITTANCE VALVE	AAV	KILOWATT	KW
AIR CONDITION(-ING, -ED)	AIR COND	KILOWATT HOUR	KWH
AIR-HANDLING UNIT	AHU OR AH	LEAVING AIR TEMPERATURE	LAT
AIR FLOW MEASURING STATION	AFMA	LEAVING WATER TEMPERATURE	LWT
AMBIENT	AMB	LENGTH	LG
AMPERE (AMP, AMPS)	AMP	LINEAR FEET	LF
ANALOG INPUT	AI	MAXIMUM	MAX
ANALOG OUTPUT	AO	MAXIMUM OVERCURRENT PROTECTION	MOCP
AND	&	MEDIUM-PRESSURE STEAM	MPS
APPARATUS DEW POINT	ADP	MILES PER HOUR	MPH
APPROXIMATE	APPROX	MINIMUM	MIN.
ARCHITECT	ARCH	MINIMUM CIRCUIT AMPERES	MCA
ATMOSPHERE	ATM	MINUTE	MIN
AVERAGE	AVG	MANUFACTURER	MFR
BRAKE HORSEPOWER	BHP	MOTOR CONTROL CENTER	MCC
BROWN & SHARPE WIRE GAGE	B&S	NOISE CRITERIA	NC
BRITISH THERMAL UNIT	BTU	NON-STANDARD PART LOAD	NPLV
BRITISH THERMAL UNIT PER HOUR	MBH	NORMALLY OPEN	NO
1000 BRITISH THERMAL UNIT	MBH	NORMALLY CLOSED	NC
BUILDING	BLDG	NOT APPLICABLE	N/A
BUILDING AUTOMATION SYSTEM	BAS	NOT IN CONTRACT	N I C
CELSIUS	°C	NOT TO SCALE	NTS
CHILLED WATER RETURN	CHWR	NUMBER	NO
CHILLED WATER SUPPLY	CHWS	ON CENTER	OC
COEFFICIENT, VALVE FLOW	CV	OUNCE	OZ
COEFFICIENT OF PERFORMANCE FACTOR	COP	OUTDOOR UNIT	ODU
COMPRESSOR	COMP	OUTSIDE AIR	OA
CONCRETE	CONC	PACKAGE UNIT	PU
CONDENS(-ER, -ING, -ATION)	COND	PACKAGE TERMINAL AIR CONDITIONER	PTAC
CONNECTION	CONN	PARTS PER MILLION	PPM
CONTINUATION	CONT	PERCENT	%
COOLING LOAD	CLG LOAD	PHASE	PH
CUBIC FEET	CU FT	POUNDS	LBS
CUBIC INCH	CU IN	POUNDS PER SQUARE FOOT	PSF
CUBIC FEET PER MINUTE	CFM	POWER VENTILATOR	PV
CFM, STANDARD CONDITIONS	SCFM	PRESSURE	PRESS
DECIBEL	DB	PRESSURE REDUCING VALVE	PRV
DEGREE	DEG OR °	PRESSURE SAFETY VALVE	PSV
DEDICATED OUTDOOR AIR SYSTEM	DOAS	PUMPED CONDENSATE	PC
DEGREES FAHRENHEIT	DEG. F	QUANTITY	QTY
DETAIL	DET	RATED LOAD AMPS	RLA
DEW-POINT TEMPERATURE	DPT	RECIRCULATE	RECIRC
DIAMETER	DIA	REDUCED PRESSURE BACKFLOW PREVENTER	RPZ
DIAMETER, INSIDE	ID	REFRIGERANT (12, 22, ETC.)	R22, R410
DIAMETER, OUTSIDE	OD	REFRIGERANT LIQUID	RL
DIFFERENCE OR DELTA	DIFF	REFRIGERANT SUCTION	RS
DIGITAL INPUT	DI	REQUIRED	REQ'D OR REQ'D
DIGITAL OUTPUT	DO	RELATIVE HUMIDITY	RH
DOMESTIC HOT WATER	DHW	RETURN AIR	RA
DOMESTIC HOT WATER RECIRCULATION	DHWR	REVOLUTIONS PER MINUTE	RPM
DRY-BULB TEMPERATURE	DBT	REVOLUTIONS PER SECOND	RPS
DUCTLESS SPLIT SYSTEM AIR HANDLER	DAH	ROOF VENTILATOR	RV
DUCTLESS SPLIT SYSTEM HEAT PUMP	DHP	ROOF TOP UNIT	RTU
ENERGY EFFICIENCY RATING	ERR	SAFETY FACTOR	SF
EFFICIENCY	EFF	SEASONAL ENERGY EFFICIENCY RATIO	SEER
ELECTRIC UNIT HEATER	EUH	SECOND	S
ELEVATION	EL	SHADING COEFFICIENT	SC
ENTERING	ENT	SPECIFICATION	SPEC
ENTERING WATER TEMPERATURE	EWT	SQUARE	SQ
ENTERING AIR TEMPERATURE	EAT	STANDARD	STD
EXISTING	(X)	STATIC PRESSURE	SP
EXTERNAL AMBIENT TEMPERATURE	EAT	SUPPLY	SPLY
EXTERNAL STATIC PRESSURE	ESP	SUPPLY AIR	SA
EXHAUST AIR	EA	TEMPERATURE	TEMP
EXHAUST FAN	EF	TEMPERATURE DIFFERENCE	TD
FACE VELOCITY	FVEL	THERMOSTAT	T STAT
FAHRENHEIT	°F	TONS OF REFRIGERATION	TONS
FEET PER MINUTE	FPM	TO BE DETERMINED	TBD
FEET PER SECOND	FPS	TOP OF STEEL	TOS
FLOOR	FLR	TOTAL DYNAMIC HEAD	TDH
FOOT OR FEET	FT	TYPICAL	TYP
FULL LOAD AMPS	FLA	U-FACTOR	U
GAGE OR GAUGE	GA	UNDER GROUND	UG
GALLONS	GAL	UNLESS OTHERWISE NOTED	UON
GALLONS PER HOUR	GPH	UNIT HEATER - ELECTRIC	UH
GALLONS PER MINUTE	GPM	VARIABLE AIR VOLUME	VAV
GALLONS PER DAY	GPD	VARIABLE FREQUENCY DRIVE	VFD
GAS UNIT HEATER	GUH	VELOCITY	VEL
GRAINS	GR	VENTILATION, VENT	VENT
HEAD	HD	VENT THRU ROOF	VTR
HEAT EXCHANGER	HX	VERTICAL	VERT
HEATING AND VENTILATION UNIT	HV	VOLT	V
HEATING, VENTILATION AND AIR CONDITIONING	HVAC	VOLT AMPERE	VA
HEIGHT	HGT	VOLUME	VOL
HERTZ	HZ	WATER PRESSURE DROP	WPD
HIGH DENSITY POLYPROPYLENE	HDPE	WATER GAUGE	WG
HIGH-PRESSURE STEAM	HPS	WATT	W
HORSEPOWER, HEAT PUMP	HP	WATT-HOUR	WH
HOT WATER COIL	HWC	WITH	W/
HOUR(S)	HR	WEIGHT	WT
HUMIDITY, RELATIVE	RH	WET BULB	WB
INTEGRATED PART LOAD VALUES	IPLV	YARD	YD
INCH	IN.	YEAR	YR

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

MECHANICAL LEGEND

	CEILING EXHAUST AIR GRILLE
	CEILING RETURN AIR / TRANSFER AIR GRILLE
	CEILING SUPPLY AIR DIFFUSER / GRILLE
(X)	EXISTING
	INDICATES TO DEMOLISH
	EXTENT OF DEMOLITION
	POINT OF CONNECTION
T	THERMOSTAT / TEMPERATURE SENSOR
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
M	MOTORIZED DAMPER
	RETURN, EXHAUST OR TRANSFER AIR FLOW
	SUPPLY AIR FLOW
AIR TYPE DESIGNATOR / AIRFLOW, CFM	DIFFUSER / REGISTER / GRILLE TAG

NOTE: ALL ITEMS LISTED MAY NOT BE USED IN THIS PROJECT.

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

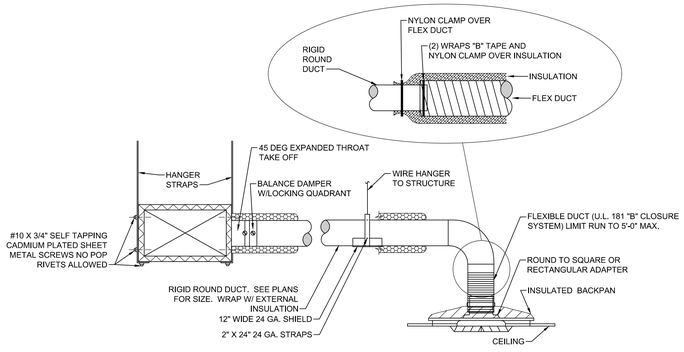
SHEET NAME:
SPECIFICATIONS, ABBREVIATIONS, LEGEND AND SCHEDULES

ORIG SUBMISSION: 2024.10.29

SHEET:
M-001

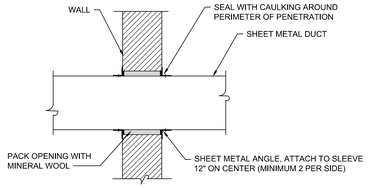
100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SHEETS



D1 TYPICAL DIFFUSER CONNECTION DETAIL

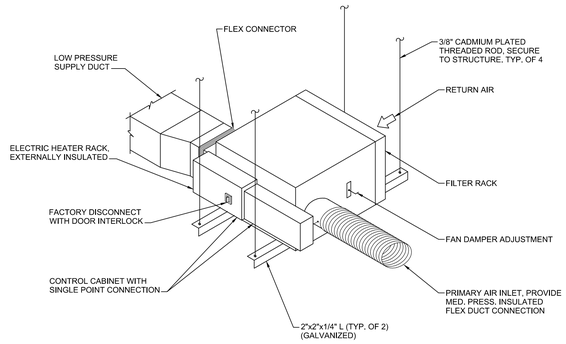
NOT TO SCALE



NOTE: EXTERNALLY WRAPPED DUCT INSTALLED SIMILARLY, BLANKET INSULATION SHALL BE INSTALLED OVER ANGLES AND SEALED TO WALL BARRIER.

D3 TYPICAL DUCT THROUGH NON-RATED WALL DETAIL

NOT TO SCALE



NOTE:
MAINTAIN MANUFACTURES RECOMMENDED CLEARANCE AND VERIFY INSTALLATION INSTRUCTIONS FOR HANGING SO THAT ALL NECESSARY ACCESS PANELS ARE NOT OBSTRUCTED.

D4 TYPICAL FAN POWERED TERMINAL w/ELECTRIC HEAT DETAIL

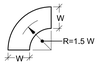
NOT TO SCALE



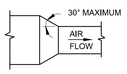
DUCT OFFSETS

(BRANCH FLOW LESS THAN 25% OF MAIN FLOW)

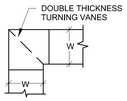
BRANCH TAKE-OFFS



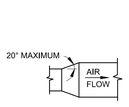
RADIUS ELBOW



CONVERGING FLOW



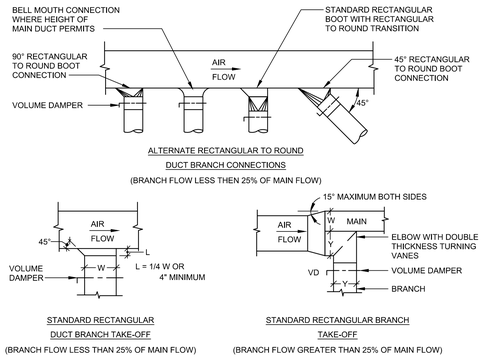
RECTANGULAR ELBOW



DIVERGING FLOW

C1 RECTANGULAR DUCT FITTING DETAILS

NOT TO SCALE



ALTERNATE RECTANGULAR TO ROUND

DUCT BRANCH CONNECTIONS

(BRANCH FLOW LESS THEN 25% OF MAIN FLOW)

STANDARD RECTANGULAR

DUCT BRANCH TAKE-OFF

(BRANCH FLOW LESS THAN 25% OF MAIN FLOW)

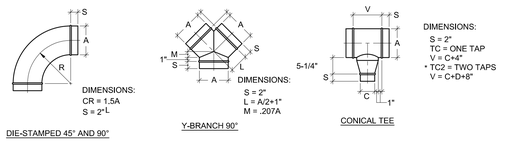
STANDARD RECTANGULAR BRANCH

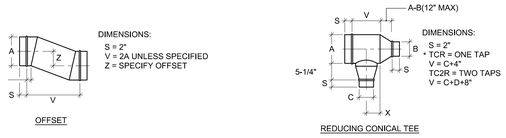
TAKE-OFF

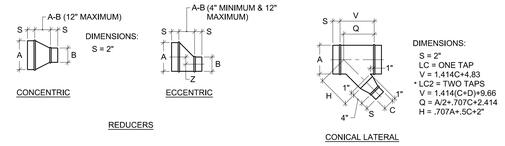
(BRANCH FLOW GREATER THAN 25% OF MAIN FLOW)

C2 ROUND/RECT. DUCT TAKE-OFF FITTING DETAILS

NOT TO SCALE

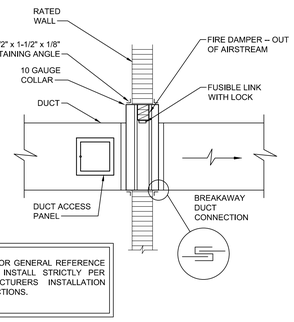






A2 ROUND DUCT FITTING DETAILS

NOT TO SCALE



A1 FIRE DAMPER DETAIL

NOT TO SCALE

GENERAL DEMOLITION NOTES

1. THE MECHANICAL CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, ACCESSORIES, ETC..., AND MECHANICAL ITEMS MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE MECHANICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY MECHANICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR THE ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID.
2. SCHEDULING OF DEMOLITION - COORDINATE SCHEDULING OF MECHANICAL DEMOLITION WORK WITH THE OWNER AND GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE OWNER'S USE OF THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE GENERAL CONTRACTOR, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS CONCERNING PHASING AND SEQUENCE OF WORK.
3. EXISTING MECHANICAL SYSTEMS - VERIFY CONDITION OF EXISTING MECHANICAL SYSTEMS TO BE REUSED SO THAT COMPLETE, FULLY OPERATIONAL AND RELIABLE SYSTEMS ARE OBTAINED AT THE COMPLETION OF THE WORK. NOTIFY ARCHITECT/ENGINEER OF ANY SYSTEMS FOUND TO BE OF QUESTIONABLE CONDITION.
4. ALL EXISTING MECHANICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
5. DEMOLISHED MATERIALS - UNLESS SPECIFICALLY REQUESTED BY THE OWNER, ALL DEMOLISHED MECHANICAL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
6. CUTTING AND PATCHING - PERFORM CUTTING AND PATCHING FOR MECHANICAL WORK SO AS TO MINIMIZE DAMAGE TO CEILINGS, FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL SPECIFICATIONS SECTIONS FOR SPECIFIC RESPONSIBILITIES REGARDING CUTTING AND PATCHING.
7. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT/ENGINEER FROM THE OWNER'S AS-BUILT RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DUCTWORK, EQUIPMENT LOCATIONS, DIMENSIONS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.
8. WHERE MECHANICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL REMAIN OR BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
9. PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING OF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED MAINTAINING SERVICE.
10. SURVEY THE EFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS EXIST.

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

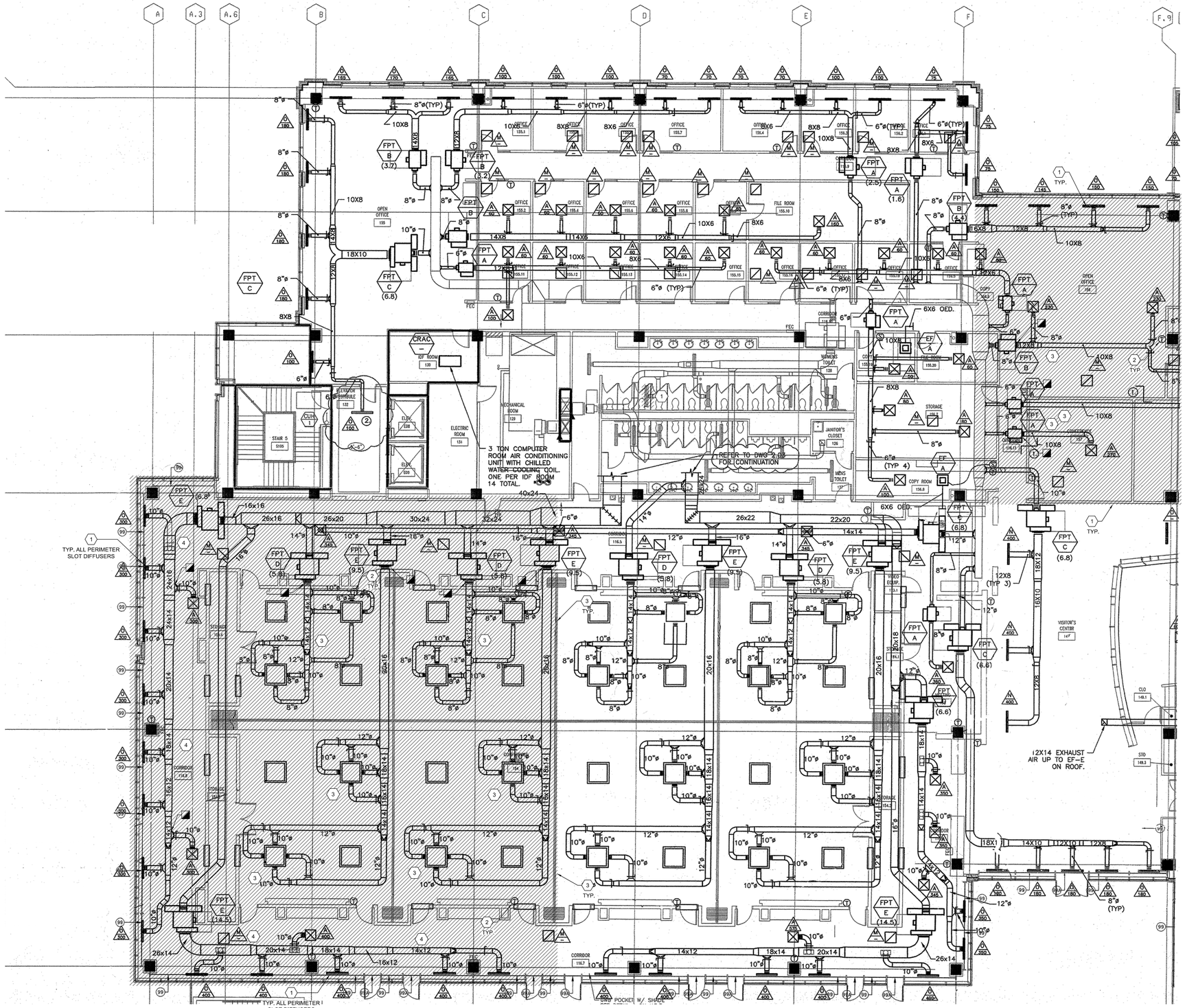
SHEET NAME:
DETAILS AND DEMOLITION NOTES

ORIG SUBMISSION: 2024.10.29

SHEET:
M-501

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PAPER SIZE



A1 **LEVEL 1 FLOOR PLAN - AREA "A"**
1/8" = 1'-0"

PLAN NORTH

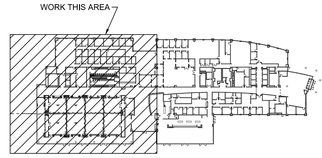
NOTE: DISREGARD REV-CLOUDS FROM EXISTING BACKGROUNDS. THESE WILL BE REMOVED FOR NEXT SUBMITTAL.

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.

KEYED NOTES

1. REMOVE DIFFUSER / GRILLE FROM HARD CEILING / CEILING GRID AND SUPPORT FROM STRUCTURE AND PROTECT DURING DEMOLITION OF HARD CEILING / CEILING GRID. PREPARE FOR RE-INSTALLATION INTO NEW HARD CEILING / CEILING GRID. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
2. REMOVE / PROTECT / STORE EXISTING THERMOSTAT AND PREPARE FOR RE-INSTALLATION AS DICTATED BY NEW CONSTRUCTION. REFER TO PLAN A1/M-101 FOR NEW LOCATION. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
3. REMOVE AND DISPOSE OF LOW PRESSURE DUCTWORK BACK TO TERMINAL UNIT INCLUDING, BUT NOT LIMITED TO, DUCTWORK, FLEX DUCT, DIFFUSERS, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES. PATCH ANY UNUSED LEGACY HOLES, RE-INSULATE AND SEAL AIR-TIGHT. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE. VAV UNITS AND MEDIUM PRESSURE DUCTWORK TO REMAIN.
4. LOW PRESSURE MAIN DUCT TRUNK DOWNSTREAM OF THE ASSOCIATED VAV TERMINAL UNIT AND ASSOCIATED DIFFUSERS TO REMAIN. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
LEVEL 1 FLOOR PLAN
AREA "A"
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
MD101

100% PERMIT SET

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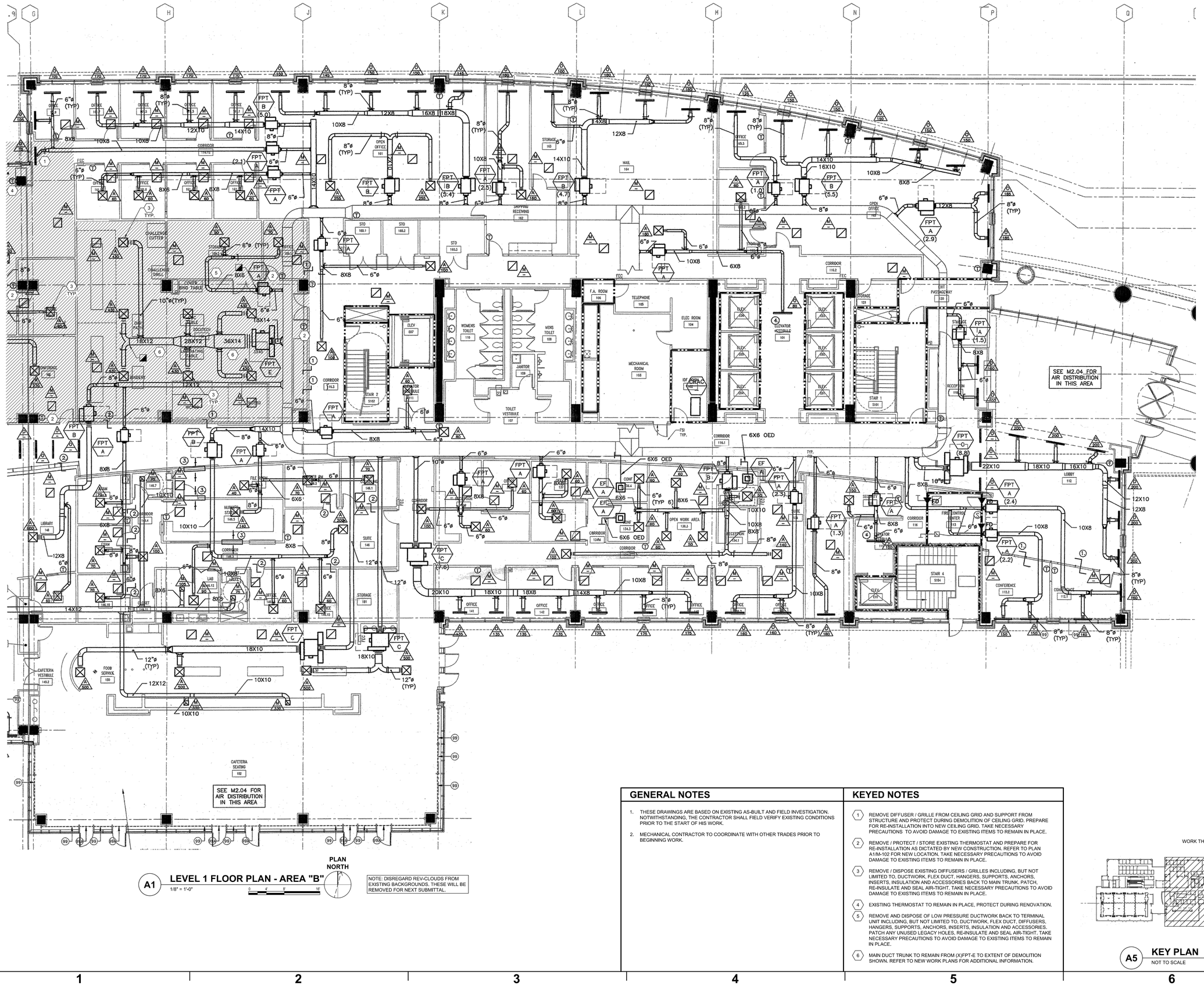
SEE M2.04 FOR AIR DISTRIBUTION IN THIS AREA
SEE M2.04 FOR AIR DISTRIBUTION IN THIS AREA
CORRIDOR 116.1
6X6 OED
MECHANICAL ROOM 103
TELEPHONE 105
ELEC ROOM 104
WOMENS TOILET 110
MENS TOILET 108
JANITOR 109
TOILET VESTIBULE 107
F.A. ROOM 106
ELEVATOR VESTIBULE 101
STAIR 1 5101
STAIR 2 5102
STAIR 4 5104
LOBBY 112
CONFERENCE 112.2
CONFERENCE 112.1
FIRE CONTROL CENTER 113
RECEPTION 114
OPEN WORK AREA 138.3
CAFETERIA SEATING 152
CAFETERIA VESTIBULE 149.2
FOOD SERVICE 150
LIBRARY 148
SUITE 146
STORAGE 151
LAB 146.13
NURSES STATION 146.3
FILE ROOM 146.2
CORRIDOR 116.2
CORRIDOR 116
CORRIDOR 134.1
CORRIDOR 134.2
CORRIDOR 134.3
CORRIDOR 134.4
CORRIDOR 134.5
CORRIDOR 134.6
CORRIDOR 134.7
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CORRIDOR 134.29
CORRIDOR

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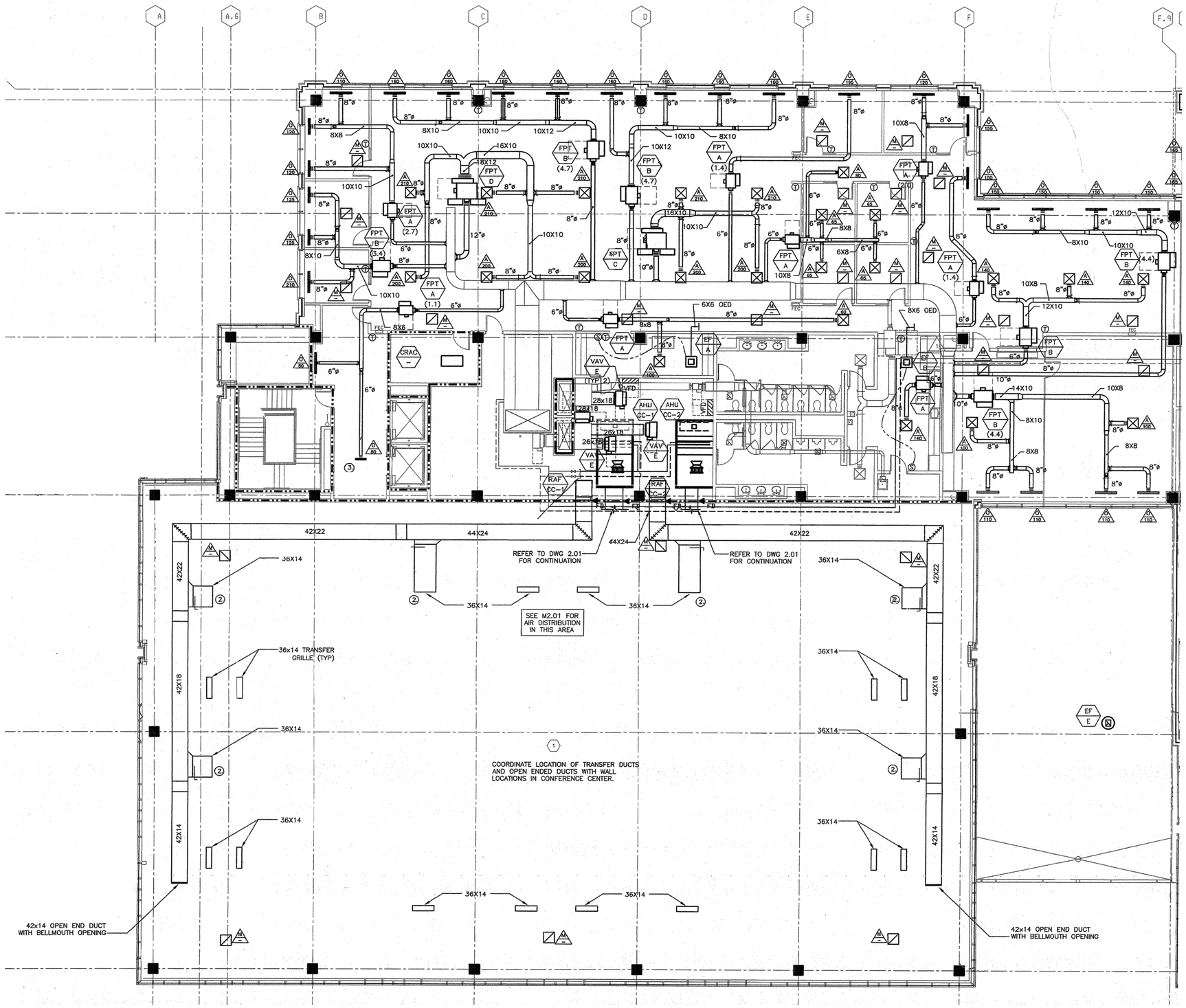


A1 **LEVEL 2 FLOOR PLAN - AREA "A"**
1/8" = 1'-0"

PLAN NORTH

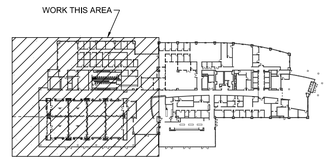
NOTE: DISREGARD REV-CLOUDS FROM EXISTING BACKGROUNDS. THESE WILL BE REMOVED FOR NEXT SUBMITTAL.

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.

KEYED NOTES

(1) NO DEMOLITION AT THIS TIME.



A5 **KEY PLAN**
NOT TO SCALE

PLAN NORTH

CITY OF WILMINGTON
NORTH CAROLINA

CITY OF WILMINGTON

LS3P

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

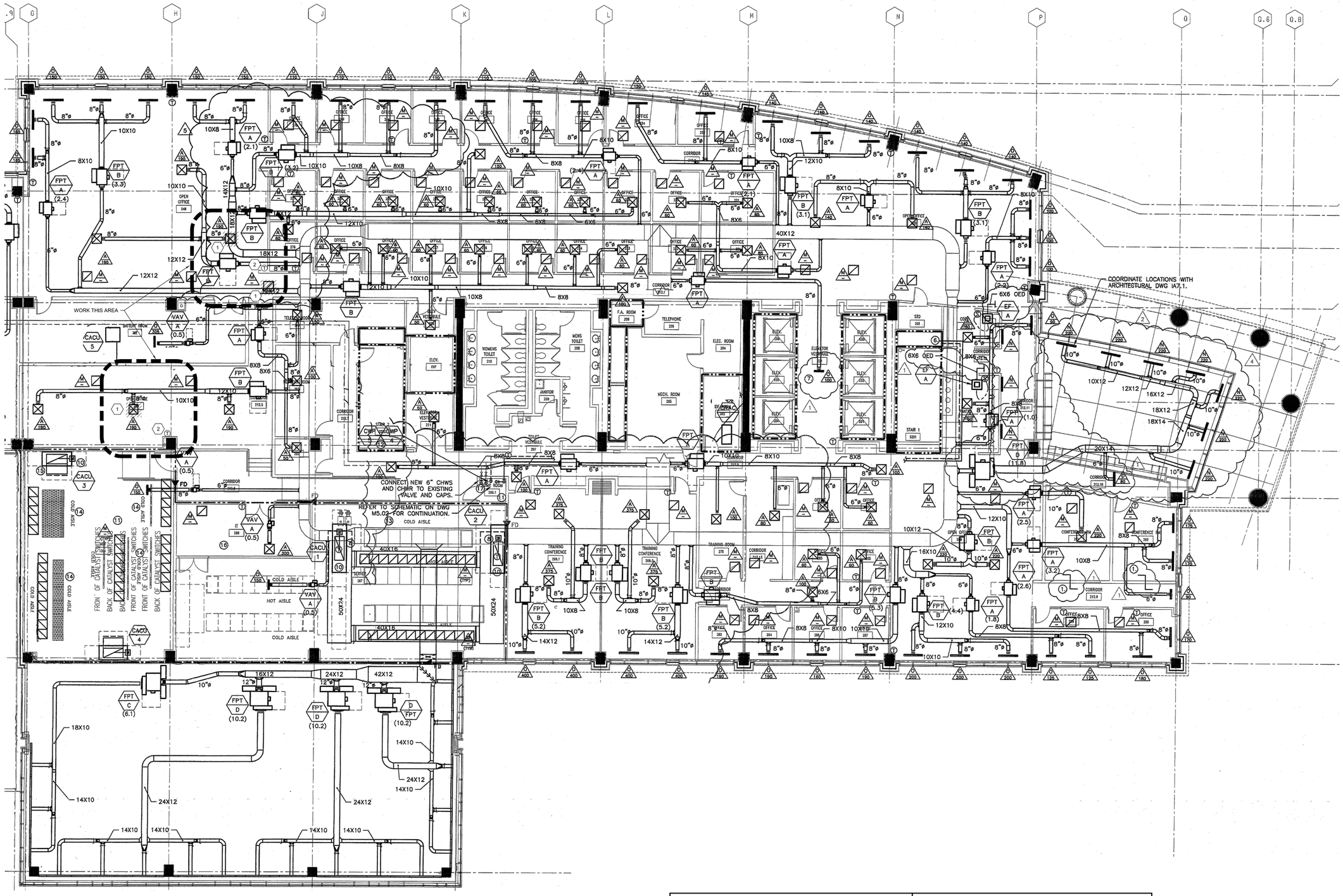
Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
LEVEL 2 FLOOR PLAN
AREA "A"
DEMOLITION

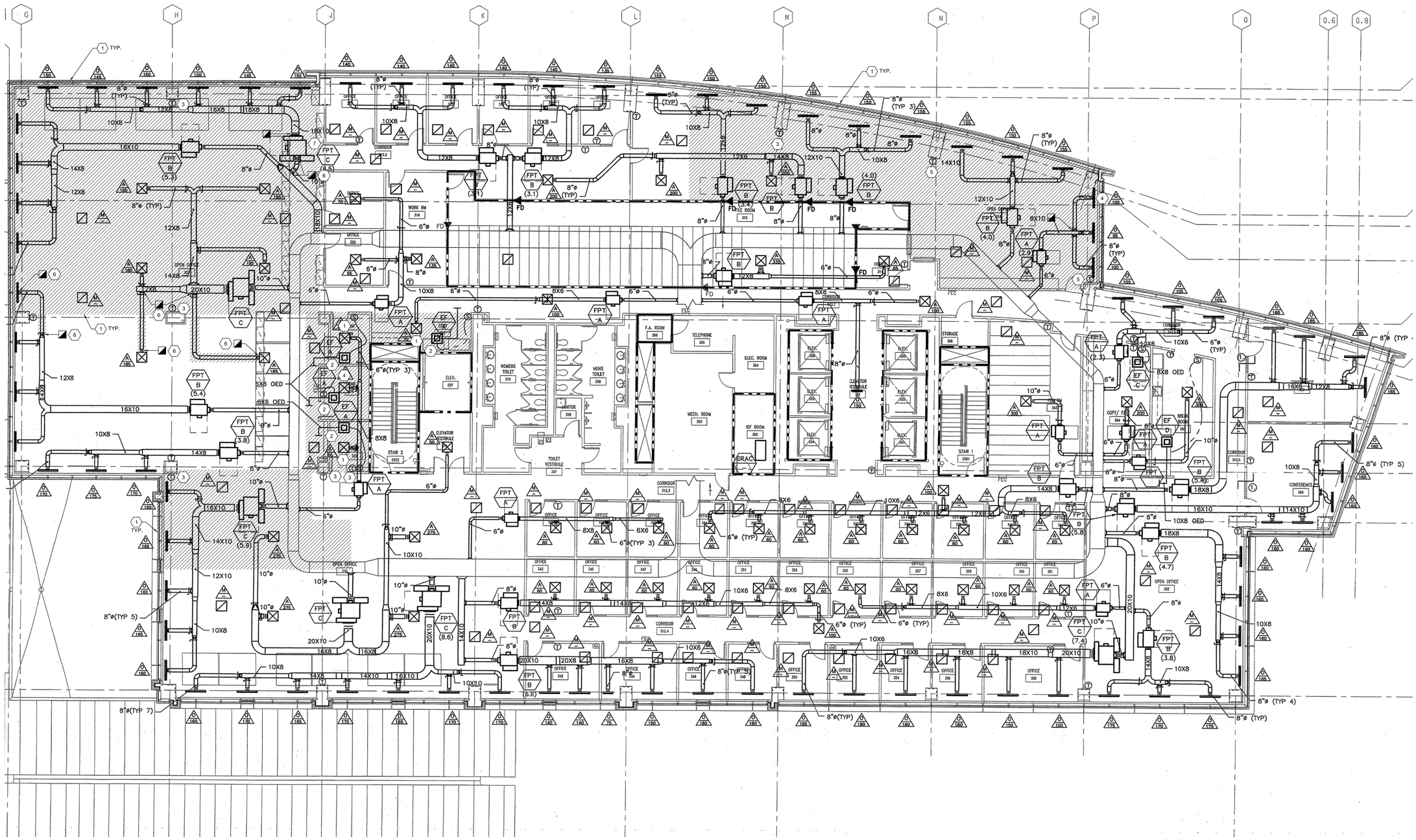
ORIG SUBMISSION: 2024.10.29

SHEET: **MD103**

100% PERMIT SET


WORK THIS AREA
CONNECT NEW 6" CHWS AND CHWR TO EXISTING VALVE AND CAPS.
REFER TO SCHEMATIC ON DWG M5.02 FOR CONTINUATION.
COORDINATE LOCATIONS WITH ARCHITECTURAL DWG IA7.1.
COLD AISLE
HOT AISLE
FRONT OF CATALYST SWITCHES
BACK OF CATALYST SWITCHES
CACU 1
CACU 2
CACU 3
CACU 4
CACU 5
VAV A (0.5)
FPT A (2.1)
FPT A (2.2)
FPT A (2.3)
FPT A (2.4)
FPT A (2.5)
FPT A (2.6)
FPT A (3.2)
FPT B (3.3)
FPT B (3.1)
FPT B (4.4)
FPT B (5.2)
FPT B (5.3)
FPT C (6.1)
FPT D (10.2)
FPT B (11.8)
FPT A (1.0)
FPT A (1.8)
FPT B (5.1)
FPT B (2.4)
FPT B (2.5)
FPT B (2.6)
FPT B (4.3)
FPT B (4.4)
FPT B (5.1)
FPT B (5.2)
FPT B (5.3)
FPT B (6.1)
FPT B (10.2)
FPT B (11.8)
FPT A (1.0)
FPT A (1.8

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



GENERAL NOTES

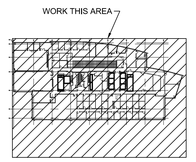
1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.

KEYED NOTES

1. REMOVE DIFFUSER / GRILLE FROM CEILING GRID AND SUPPORT FROM STRUCTURE AND PROTECT DURING DEMOLITION OF CEILING GRID, PREPARE FOR RE-INSTALLATION INTO NEW CEILING GRID. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
2. REMOVE / DISPOSE EXISTING EF INCLUDING BUT NOT LIMITED TO EF, DUCTWORK, HANGERS, SUPPORTS, ANCHORS, INSERTS, CONTROLS, ETC.. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
3. REMOVE / PROTECT / STORE EXISTING THERMOSTAT AND PREPARE FOR RE-INSTALLATION AS DICTATED BY NEW CONSTRUCTION. REFER TO PLAN A1/MH405 FOR NEW LOCATION. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
4. REMOVE / DISPOSE EXISTING DIFFUSERS / GRILLES INCLUDING, BUT NOT LIMITED TO, DUCTWORK, FLEX DUCT, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES BACK TO MAIN TRUNK, PATCH, RE-INSULATE AND SEAL AIR-TIGHT. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
5. EXISTING THERMOSTAT TO REMAIN IN PLACE, PROTECT DURING RENOVATION.
6. REMOVE AND DISPOSE OF SUPPLY DUCTWORK INCLUDING, BUT NOT LIMITED TO, SUPPLY AIR DUCTWORK, FLEX DUCT, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES BACK TO MAIN TRUNK. PATCH ANY UNUSED LEGACY HOLES, RE-INSULATE AND SEAL AIR-TIGHT. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
7. REMOVE / PROTECT / STORE EXISTING FTP TERMINAL UNIT AND PREPARE FOR RE-INSTALLATION AS DICTATED BY NEW CONSTRUCTION. REFER TO PLAN A1/MH405 FOR NEW LOCATION. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.

B1 **LEVEL 3 FLOOR PLAN**
1/8" = 1'-0"
PLAN NORTH

NOTE: DISREGARD REV-CLOUDS FROM EXISTING BACKGROUNDS. THESE WILL BE REMOVED FOR NEXT SUBMITTAL.



A5 **KEY PLAN**
NOT TO SCALE

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
LEVEL 3 FLOOR PLAN
DEMOLITION

ORIG SUBMISSION: 2024.10.29

SHEET:
MD105

100% PERMIT SET

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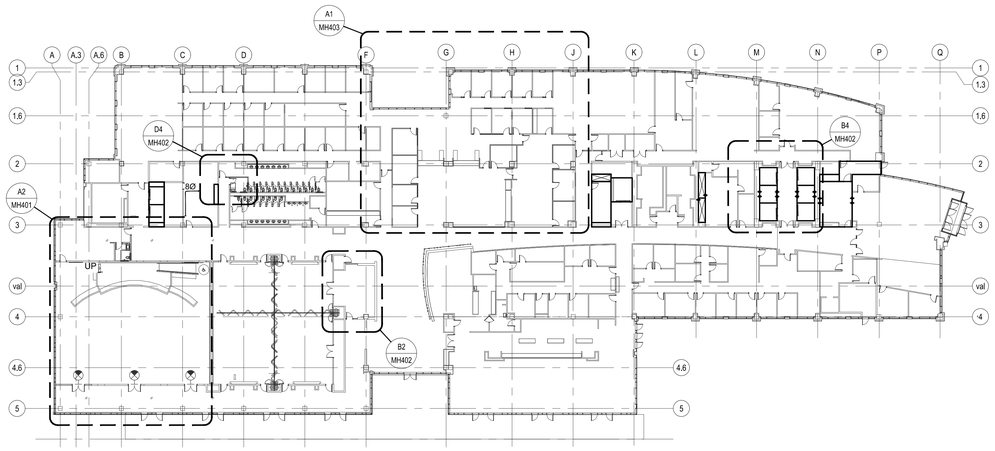
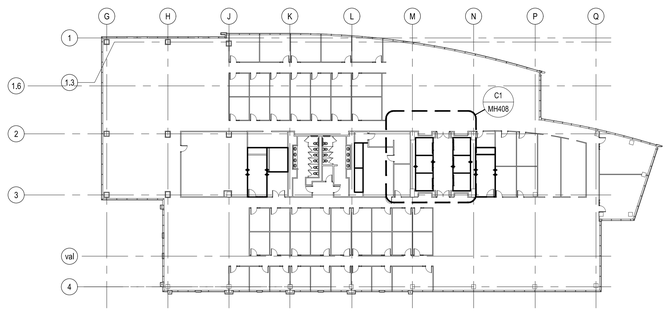
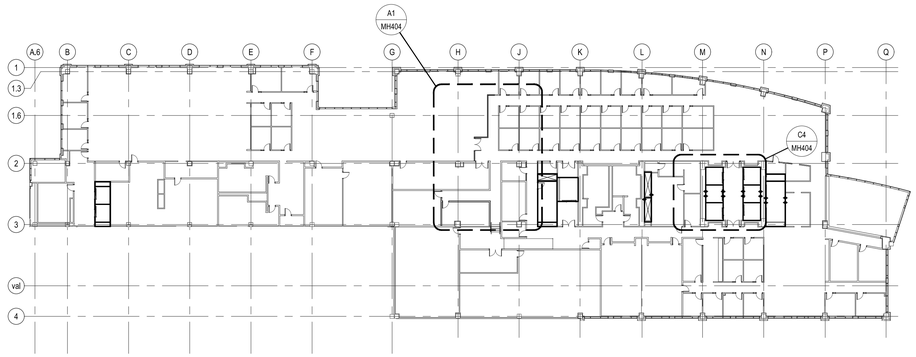


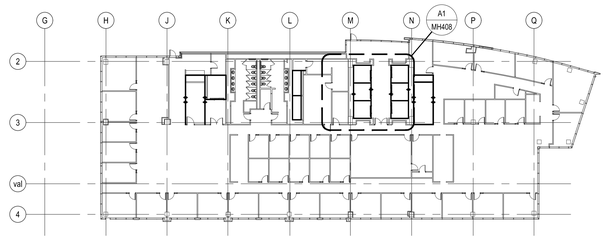
D1 FLOOR PLAN - LEVEL 1
1" = 30'-0"
PLAN NORTH



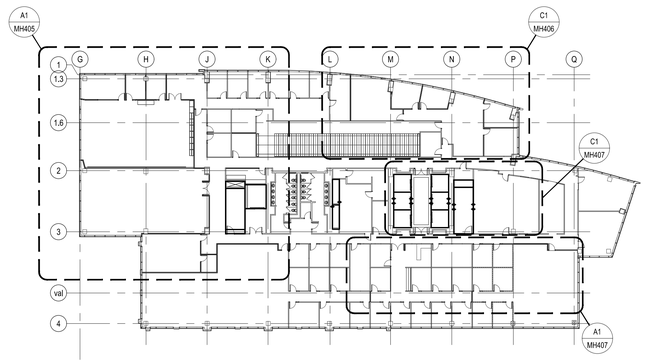
D5 FLOOR PLAN - LEVEL 10
1" = 30'-0"
PLAN NORTH



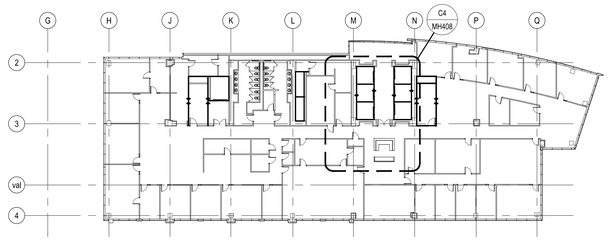
B1 FLOOR PLAN - LEVEL 2
1" = 30'-0"
PLAN NORTH



B5 FLOOR PLAN - LEVEL 11
1" = 30'-0"
PLAN NORTH



A2 FLOOR PLAN - LEVEL 3
1" = 30'-0"
PLAN NORTH



A5 FLOOR PLAN - LEVEL 12
1" = 30'-0"
PLAN NORTH

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
LEVELS
1, 2, 3, 10, 11 AND 12

ORIG SUBMISSION: 2024.10.29

SHEET:
MH101

100% PERMIT SET

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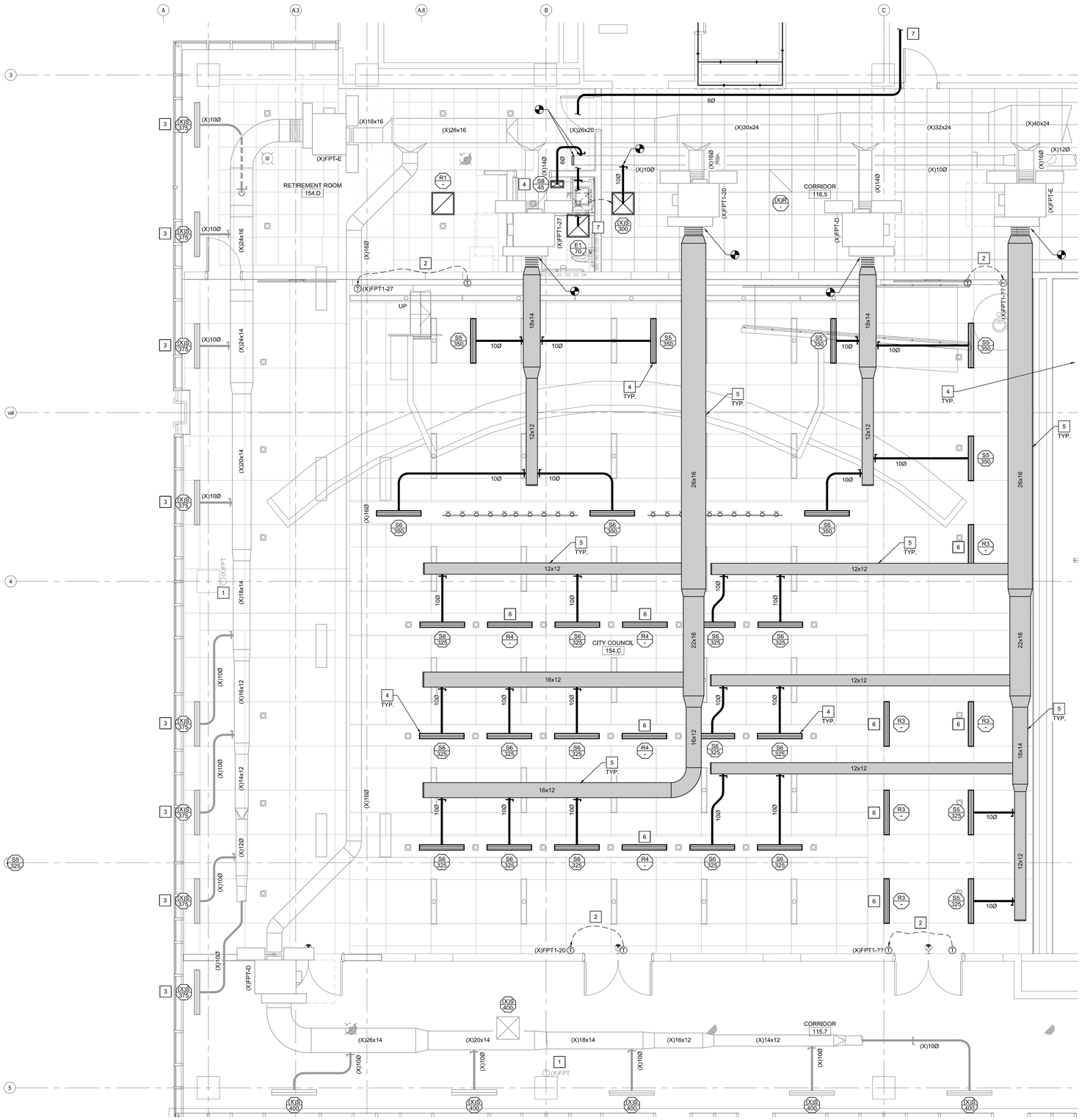

A2 **ENL. PLAN COUNCIL CHAMBERS 154C**
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
3. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
4. PROVIDE NEW SUPPLY DIFFUSER AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
5. PROVIDE NEW SUPPLY AIR DUCTWORK INCLUDING, BUT NOT LIMITED TO, SUPPLY AIR DUCTWORK, FLEX DUCT, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES TO PROVIDE A FULLY OPERATIONAL SYSTEM.
6. PROVIDE NEW RETURN GRILLE AT LOCATION SHOWN.
7. PROVIDE NEW EXHAUST GRILLE AT LOCATION SHOWN. PROVIDE RIGID DUCT, HANGERS, SUPPORTS, ECT. BACK TO COMMON EXHAUST SHAFT IN MECHANICAL ROOM 129, REFER TO PLANS D1/MH101 AND D4/MH402 FOR ADDITIONAL INFORMATION.

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
MH401

100% PERMIT SET

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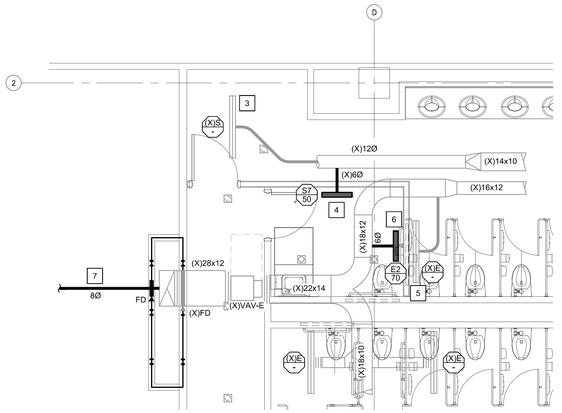
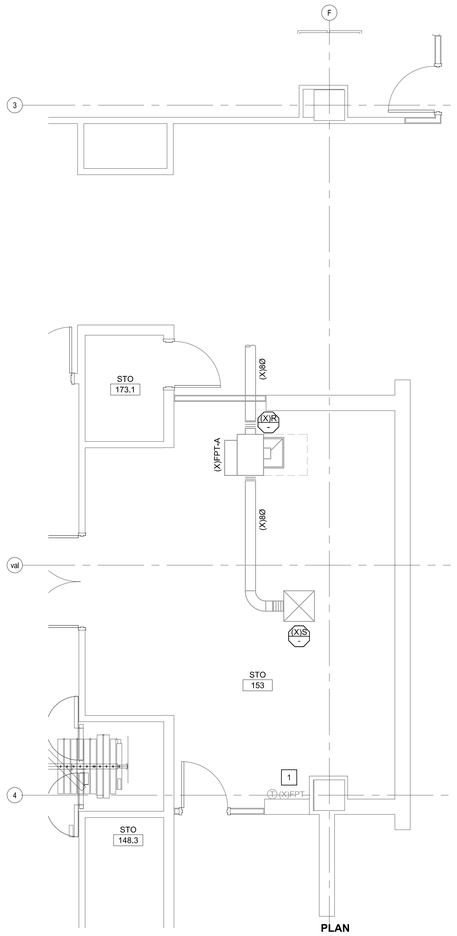


PLAN NORTH

D4 ENL. PLAN - TLT 127.5

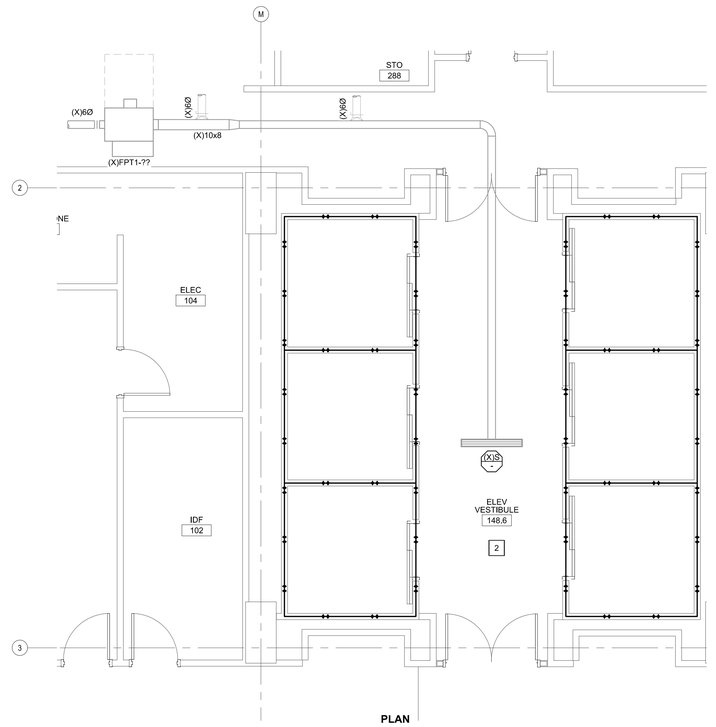
1/4" = 1'-0"



PLAN NORTH

B2 ENL. PLAN STORAGE 153

1/4" = 1'-0"



PLAN NORTH

B4 ENL PLAN - ELEV VEST 101

1/4" = 1'-0"

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. NO MECHANICAL WORK IN THIS AREA.
3. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
4. PROVIDE NEW SUPPLY DIFFUSER AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
5. LOCATE EXISTING EXHAUST GRILLE AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING VAV.
6. PROVIDE NEW EXHAUST GRILLE AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
7. PROVIDE NEW EXHAUST AS SHOWN. PROVIDE FIRE DAMPER, RIGID DUCT, HANGERS, SUPPORTS, ECT. FROM COMMON EXHAUST SHAFT IN MECHANICAL ROOM 129 TO NEW EXHAUST GRILLE IN TLT ROOM 154E. REFER TO PLANS D1/MH101 AND A2/MH401 FOR ADDITIONAL INFORMATION.

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
MH402

100% PERMIT SET

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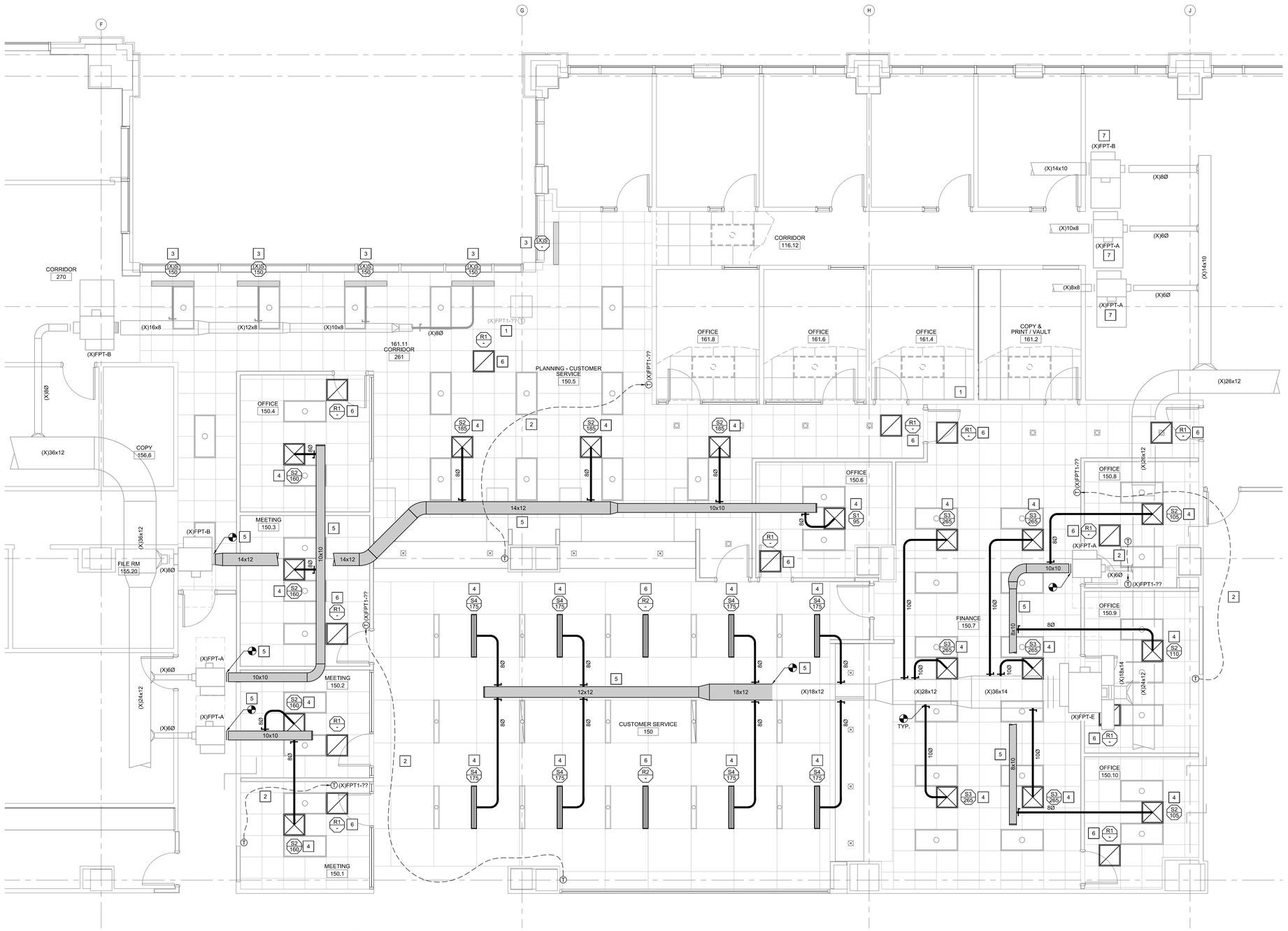

A1 **ENL. PLAN CUSTOMER SERVICE**
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
3. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
4. PROVIDE NEW SUPPLY DIFFUSER AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
5. PROVIDE NEW SUPPLY AIR DUCTWORK INCLUDING, BUT NOT LIMITED TO, SUPPLY AIR DUCTWORK, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES TO PROVIDE A FULLY OPERATIONAL SYSTEM.
6. PROVIDE NEW RETURN GRILLE AT LOCATION SHOWN.
7. NO MECHANICAL WORK IN THIS AREA. EXISTING FTP'S ARE SHOWN FOR REFERENCE ONLY.

CITY OF WILMINGTON NORTH CAROLINA

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLAN
LEVEL 1

ORIG SUBMISSION: 2024.10.29

SHEET:
MH403

100% PERMIT SET

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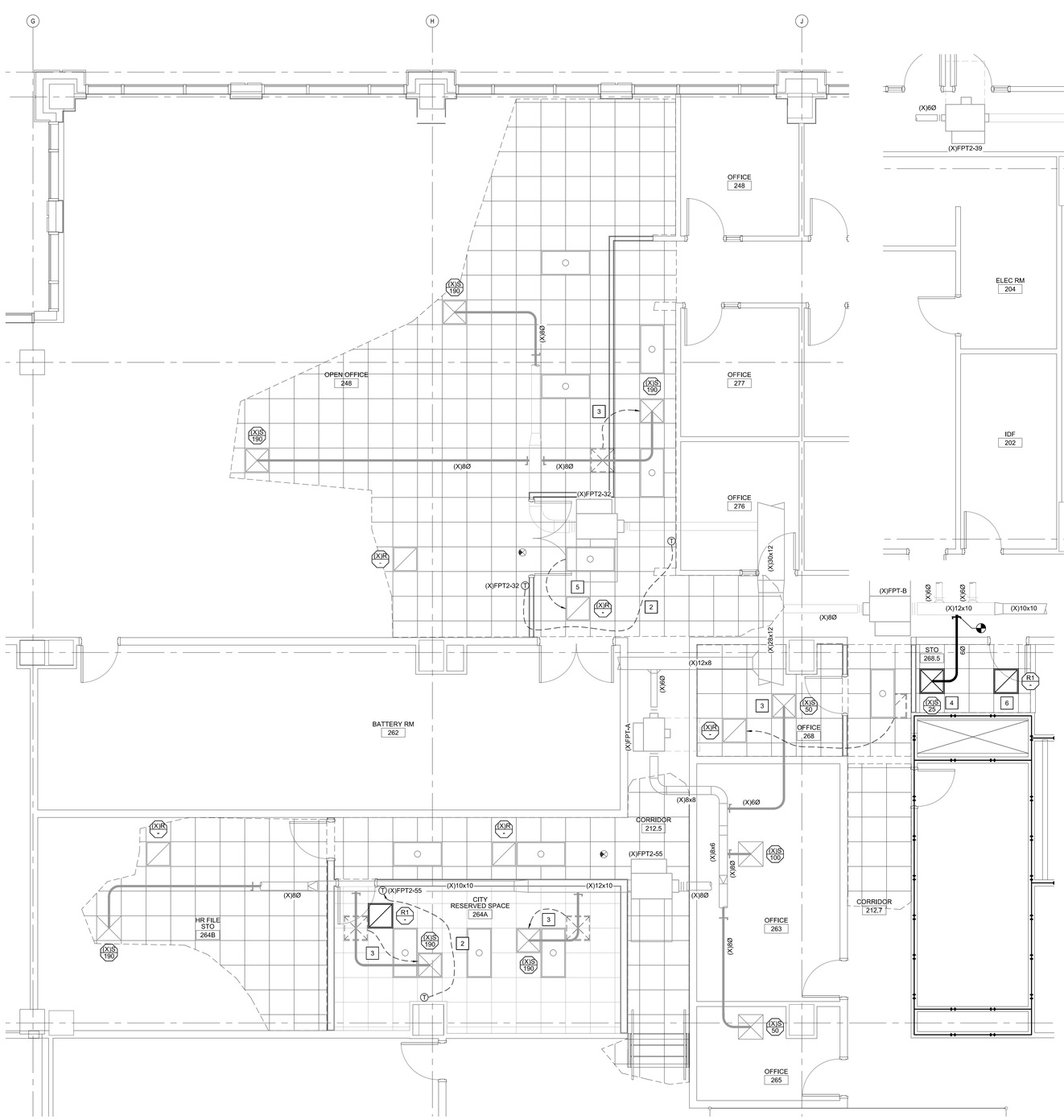
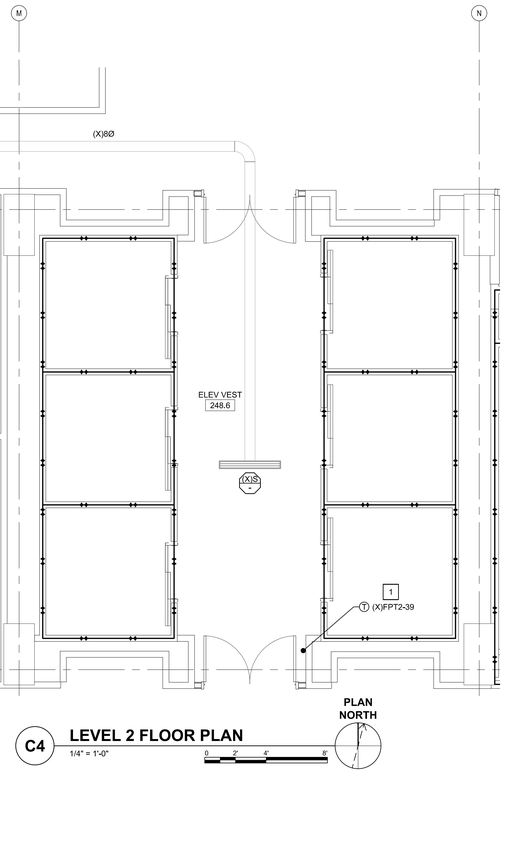


A1 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"



C4 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
3. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
4. PROVIDE NEW SUPPLY DIFFUSER AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
5. LOCATE EXISTING RETURN GRILLE AT LOCATION SHOWN.
6. PROVIDE NEW RETURN GRILLE AT LOCATION SHOWN.

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVEL 2

ORIG SUBMISSION: 2024.10.29

SHEET:
MH404

100% PERMIT SET

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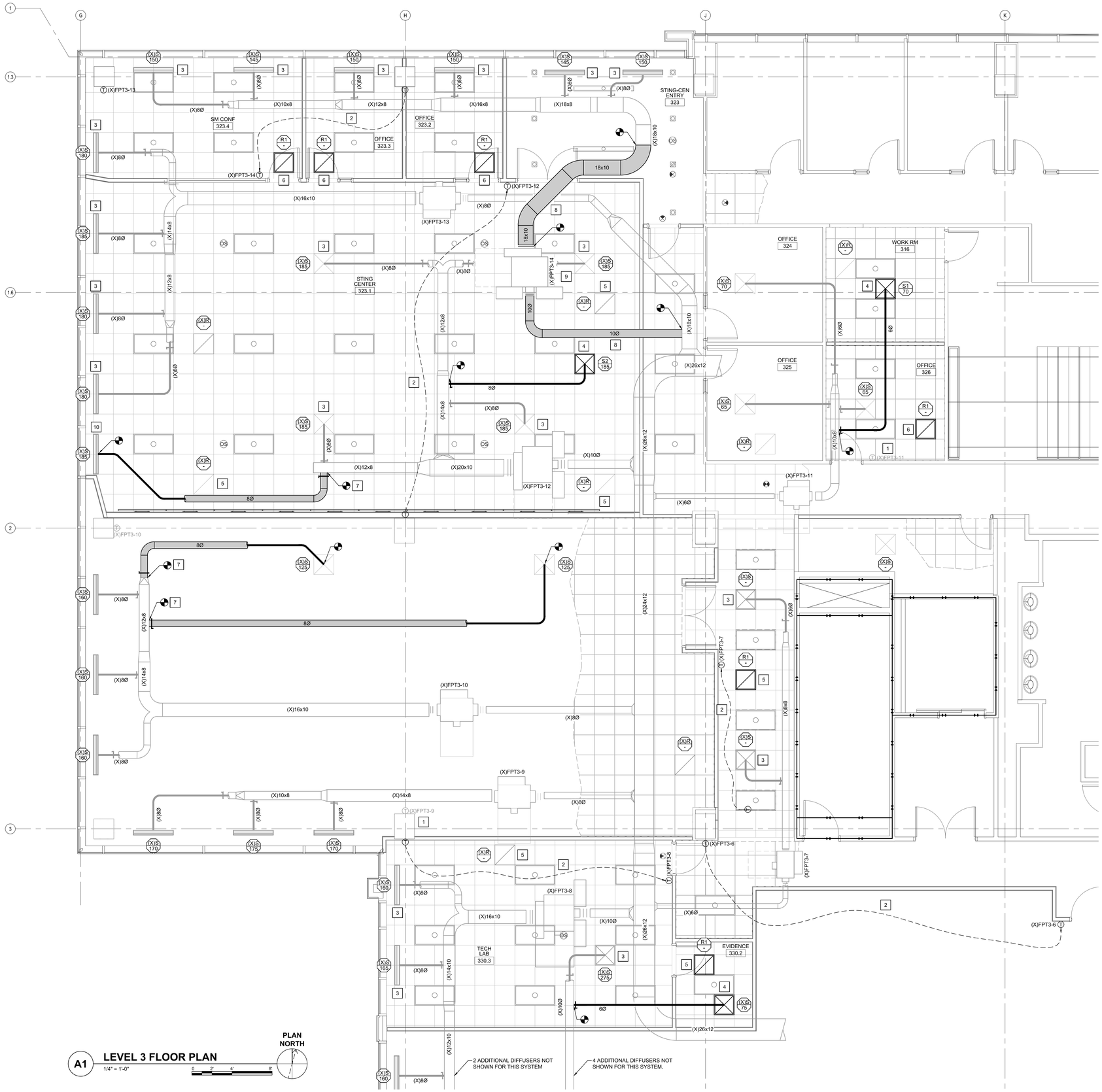

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.
4. COORDINATE AIR-HANDLING EQUIPMENT LOCATION TO MAXIMIZE SPACE WHILE MAINTAINING MANUFACTURERS CLEARANCE REQUIREMENTS.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
3. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN. IF EXISTING FLEX DUCT IS NOT LONG ENOUGH TO REACH DESIRED LOCATION REPLACE FLEX DUCT, INCLUDING BUT NOT LIMITED TO FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ETC. BACK TO MAIN TRUNK TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
4. PROVIDE NEW SUPPLY DIFFUSER AT LOCATION SHOWN. PROVIDE FLEX DUCT, RIGID DUCT, INSULATION, HANGERS, SUPPORTS, ECT, TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROPORTIONALLY BALANCE AIRFLOW AVAILABLE FROM EXISTING FTP.
5. LOCATE EXISTING RETURN GRILLE AT LOCATION SHOWN.
6. PROVIDE NEW RETURN GRILLE AT LOCATION SHOWN.
7. PROVIDE NEW SUPPLY DUCTWORK INCLUDING, BUT NOT LIMITED TO, SUPPLY AIR DUCTWORK, FLEX DUCT, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
8. PROVIDE NEW SUPPLY AIR DUCTWORK INCLUDING, BUT NOT LIMITED TO, SUPPLY AIR DUCTWORK, HANGERS, SUPPORTS, ANCHORS, INSERTS, INSULATION AND ACCESSORIES TO PROVIDE A FULLY OPERATIONAL SYSTEM.
9. RELOCATE EXISTING FTP TERMINAL UNIT INCLUDING, BUT NOT LIMITED TO, TERMINAL UNIT, PIPING, HANGERS, SUPPORTS, ANCHORS, INSERTS AND ACCESSORIES. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE.
10. LOCATE EXISTING SUPPLY DIFFUSER AT LOCATION SHOWN.

CITY OF WILMINGTON NORTH CAROLINA

CITY OF WILMINGTON

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10/29/2024

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

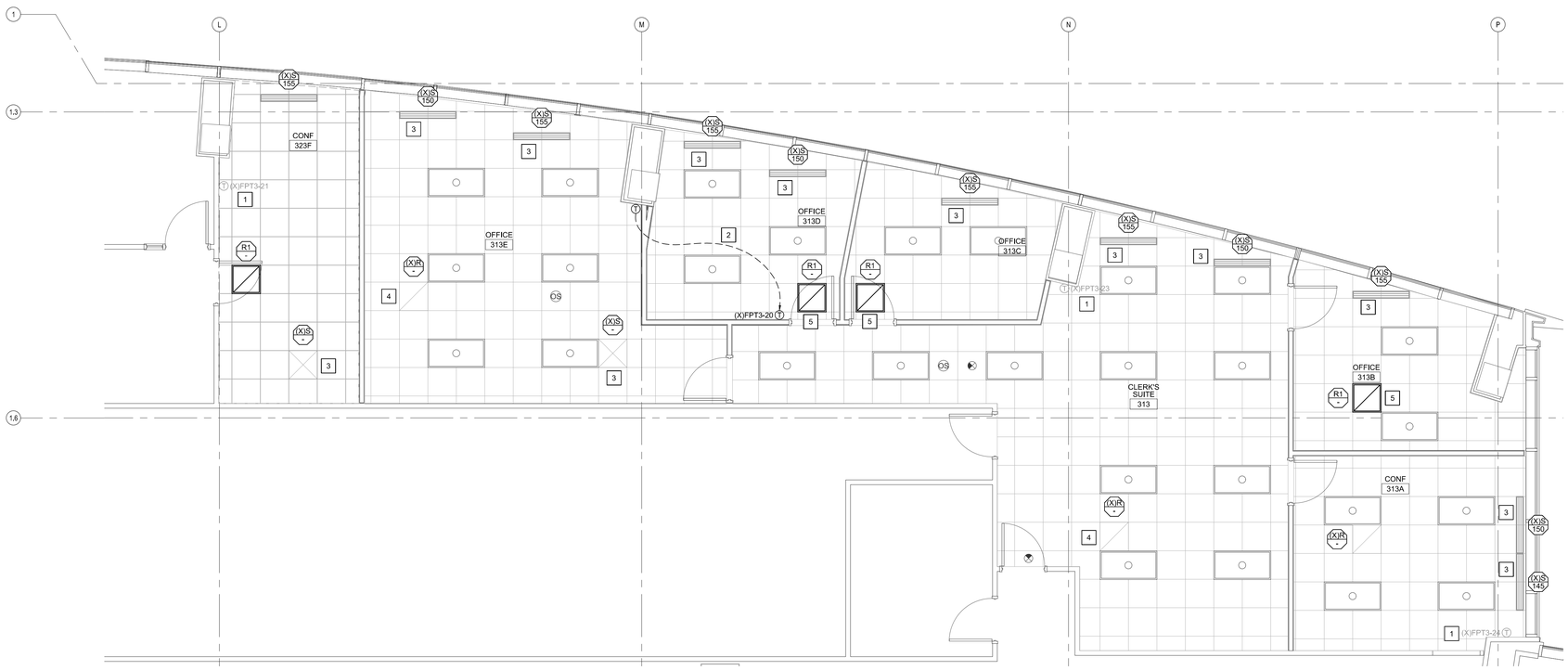
SHEET NAME:
MECHANICAL
ENL. PLAN
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
MH405

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



C1 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"
0 2' 4' 8'

PLAN NORTH

GENERAL NOTES

1. THESE DRAWINGS ARE BASED ON EXISTING AS-BUILT AND FIELD INVESTIGATION. NOTWITHSTANDING, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF HIS WORK.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.
3. COORDINATE DUCT ELEVATION AND GENERAL PLACEMENT WITH STRUCTURE AND OTHER TRADES, TYP.

KEYED NOTES

1. PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.
2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
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4. LOCATE EXISTING RETURN GRILLE AT LOCATION SHOWN.
5. PROVIDE NEW RETURN GRILLE AT LOCATION SHOWN.

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
MH406

100% PERMIT SET

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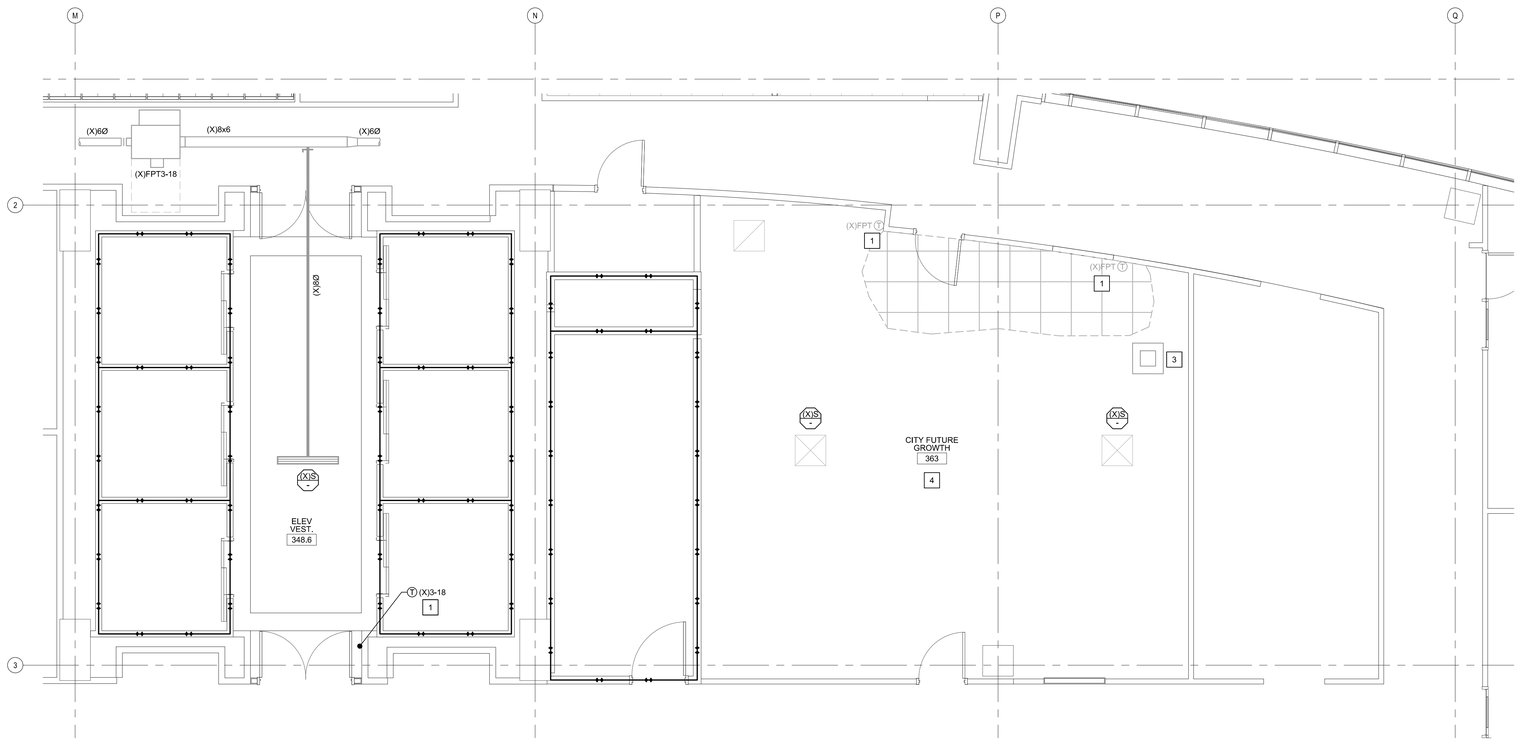
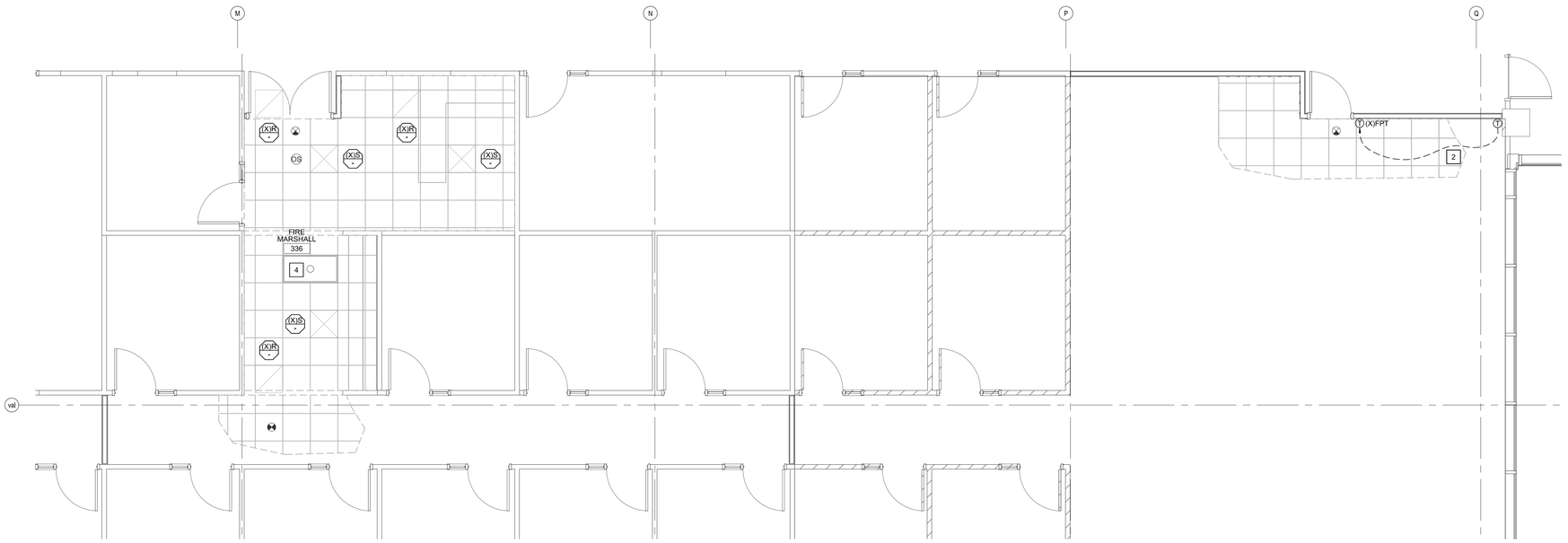


C1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH



A1 **LEVEL 3 FLOOR PLAN**
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH

GENERAL NOTES

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2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.

KEYED NOTES

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2. RELOCATE EXISTING THERMOSTAT AS SHOWN. MOUNT APPROXIMATELY 54" ABOVE FINISHED FLOOR. PROVIDE NEW CONTROL WIRING BACK TO ASSOCIATED FTP IF WIRING IS NOT LONG ENOUGH TO RELOCATE TO DESIRED LOCATION. CONTRACTOR MUST NOT SPLICE WIRING. **CONFIRM LOCATION WITH OWNER.**
3. PROTECT EXISTING EXHAUST FAN IN PLACE DURING RENOVATIONS.
4. NO MECHANICAL WORK IN THIS AREA.

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NORTH CAROLINA

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVEL 3

ORIG SUBMISSION: 2024.10.29

SHEET:
MH407

100% PERMIT SET

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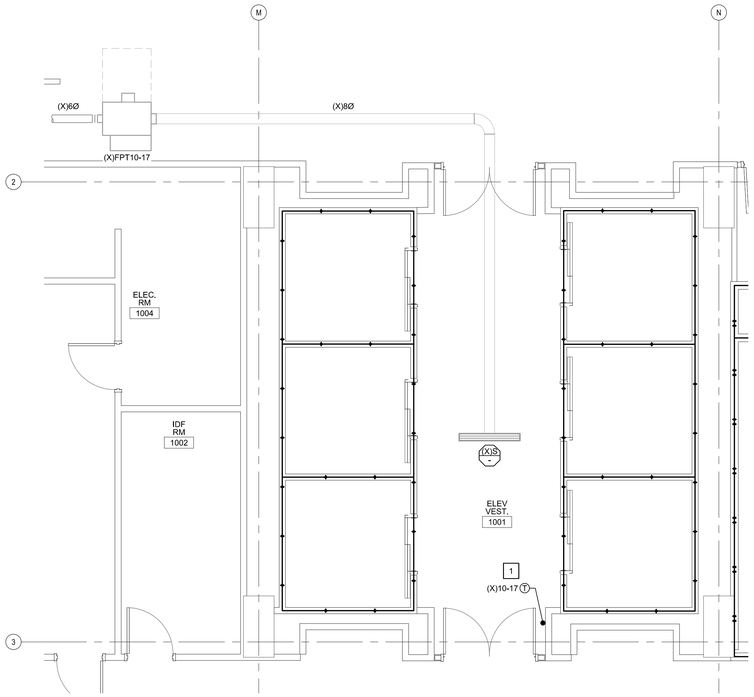
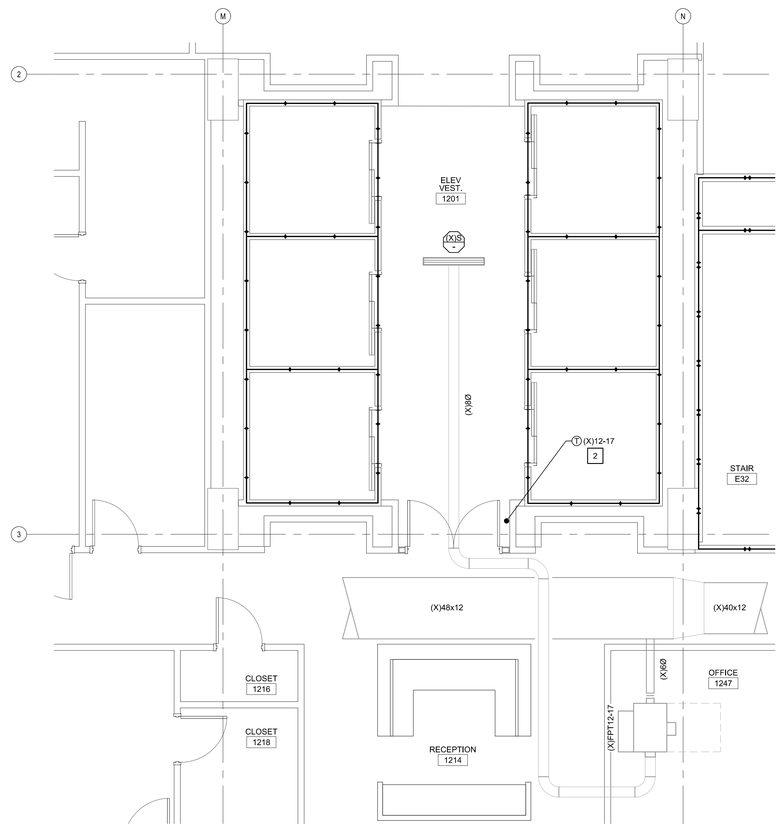
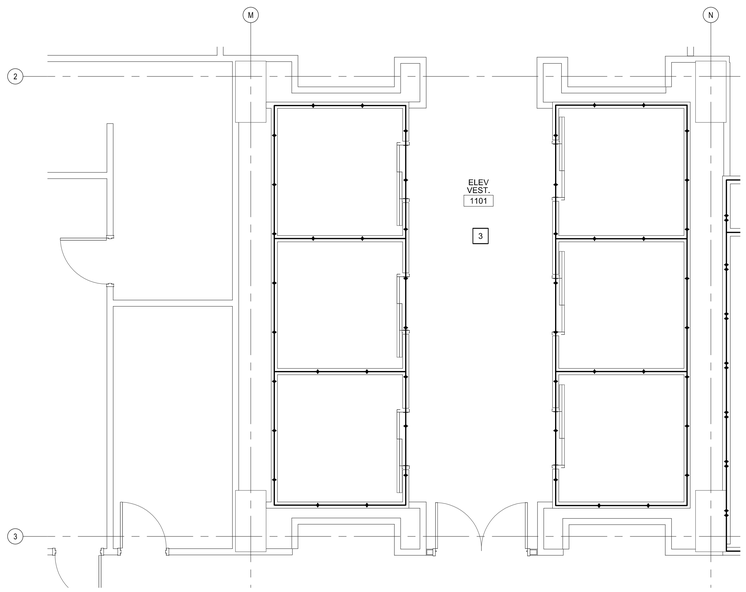


C1 **ENL PLAN - ELEV VEST 1001**
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH



C4 **ENL PLAN - ELEV VEST 1201**
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH



A1 **ENL PLAN - ELEV VEST 1101**
1/4" = 1'-0"
0 2' 4' 8'
PLAN NORTH

GENERAL NOTES

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2. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK.

KEYED NOTES

1 PROTECT EXISTING THERMOSTAT IN PLACE DURING RENOVATIONS.

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3 NO MECHANICAL WORK IN THIS AREA.

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT
929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
MECHANICAL
ENL. PLANS
LEVELS 3, 10, 11
AND 12

ORIG SUBMISSION: 2024.10.29

SHEET:
MH408

100% PERMIT SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PLOT SHEETS

PLUMBING SPECIFICATIONS

PART 1 GENERAL

1.1 SCOPE OF WORK: THESE OUTLINE SPECIFICATIONS AND ACCOMPANYING DRAWINGS DESCRIBE SCOPE OF WORK REQUIRED FOR PLUMBING SYSTEMS. LABOR AND MATERIAL SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE, WORKMANLIKE INSTALLATION OF ALL SYSTEMS SHOWN ON DIAGRAMMATIC DRAWINGS AND/OR AS SPECIFIED HEREIN.

1.2 CONTRACTOR: THE WORD "CONTRACTOR", "PLUMBING CONTRACTOR", AND "P.C." AS USED HEREIN SHALL MEAN THE PLUMBING INSTALLER UNLESS OTHERWISE QUALIFIED.

1.3 DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND MAY NOT COMPLETELY DESCRIBE EVERY DETAIL OF THE INSTALLATION. HOWEVER, CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE SYSTEMS INCLUDING ALL REQUIRED EQUIPMENT AND ACCESSORIES TO OBTAIN FULLY FUNCTIONING PLUMBING SYSTEMS.

1.4 CODE COMPLIANCE: COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND CODES, INSOFAR AS THEY APPLY:

- NORTH CAROLINA STATE BUILDING CODE (CODE), LATEST EDITION AND REVISIONS.
- LOCAL JURISDICTION REQUIREMENTS.

1.5 PERMITS AND INSPECTIONS: OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., REQUIRED FOR THE WORK AND PAY FOR SAME. FURNISH A FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE OF THE WORK.

1.6 SUPERVISION: PROVIDE SKILLED SUPERINTENDENTS TO SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL INSPECTION.

1.7 PROGRESS OF WORK: PERFORM WORK IN ACCORDANCE WITH SCHEDULE AND REQUIREMENTS OF THE GENERAL CONTRACTOR. UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR DELAY THE OVERALL PROJECT SCHEDULE.

1.8 COORDINATION: COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES. LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. ARRANGE PLUMBING SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES. VERIFY ACTUAL BUILDING STRUCTURE PRIOR TO PIPE FABRICATION AND ADJUST LAYOUT AS REQUIRED. INCLUDE ALL OFFSETS IN PIPING, FITTINGS, ETC. AS REQUIRED TO PROPERLY INSTALL EQUIPMENT.

1.9 EQUIPMENT LOCATIONS: DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT.

1.10 LISTING AND LABELING: ALL EQUIPMENT SHALL BE LABELED OR LISTED BY UL OR OTHER APPROVED TESTING AGENCY WHERE REQUIRED.

1.11 STORAGE SPACE: CONSULT WITH THE GENERAL CONTRACTOR REGARDING JOB SITE STORAGE FOR PLUMBING MATERIALS TO BE INSTALLED UNDER THIS PROJECT. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED.

1.12 CLEANUP: REMOVE ALL DEBRIS GENERATED IN THE ACCOMPLISHMENT OF WORK UNDER THIS PROJECT. CLEAN, REPLACE OR REPAIR ALL SURFACES SOILED OR DAMAGED DURING THE COURSE OF THE WORK. REMOVE DEBRIS DAILY SO TO MAINTAIN SAFE WORKING CONDITIONS.

1.13 ELECTRICAL WORK:

A. PERFORM ELECTRICAL WORK FOR PLUMBING EQUIPMENT IN COMPLIANCE WITH PROJECT ELECTRICAL REQUIREMENTS. ELECTRICAL WORK FOR PLUMBING EQUIPMENT NOT SPECIFICALLY INDICATED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR IN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AS PART OF HIS WORK.

B. ELECTRICAL DRAWINGS ARE BASED ON ELECTRICAL CHARACTERISTICS INDICATED IN DRAWING PLUMBING EQUIPMENT SCHEDULES. ANY EQUIPMENT FURNISHED BY THE PLUMBING CONTRACTOR WHICH DOES NOT MATCH THE ELECTRICAL CHARACTERISTICS INDICATED IN THE DRAWING SCHEDULES SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR. ANY ADDITIONAL COSTS FOR ELECTRICAL INSTALLATION REQUIRED FOR EQUIPMENT NOT MATCHING THE DRAWING SCHEDULES SHALL BE BORNE BY THE PLUMBING CONTRACTOR.

1.14 PLUMBING WORK IN CONNECTION WITH OTHER CONTRACTS

A. PROVIDE PLUMBING SERVICES AS REQUIRED FOR ITEMS FURNISHED BY OTHER CONTRACTORS OR VENDORS AS SHOWN ON THE PLUMBING DRAWINGS. INCLUDE ROUGH-INS AND FINAL CONNECTIONS TO EQUIPMENT. LOCATIONS OF CONNECTIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SOME ADJUSTMENT OF ACTUAL CONNECTION LOCATIONS SHOULD BE ANTICIPATED. COORDINATE EXACT CONNECTION REQUIREMENTS. MAKE FINAL CONNECTIONS ONLY AFTER APPROVAL OF THE OTHER CONTRACTOR OR VENDOR, IN THE CONTRACTOR'S OR VENDOR'S PRESENCE.

1.15 SUBSTITUTIONS: MAJOR FIXTURES, EQUIPMENT, DEVICES, AND SPECIALTIES SHALL BE AS SCHEDULED ON THE DRAWINGS. MANUFACTURERS SHOWN OR NOTED ARE INTENDED FOR REFERENCE AS TO THE QUALITY AND TYPE OF EQUIPMENT DESIRED. COMPARABLE FIXTURES BY OTHER MANUFACTURERS MAY BE ACCEPTED IF, IN THE OPINION OF THE ENGINEER, THE LEVEL OF QUALITY IS EQUIVALENT TO SCHEDULED FIXTURES.

1.16 SUBMITTALS:

A. EQUIPMENT SUBMITTALS: SUBMIT ONE (1) ELECTRONIC COPY OF DESCRIPTIVE DATA FOR PLUMBING EQUIPMENT AND MATERIALS FOR APPROVAL BY THE ENGINEER. CLEARLY IDENTIFY ALL ITEMS.

B. OPERATING AND MAINTENANCE MANUALS: SUBMIT TWO COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT, INCLUDING NECESSARY CUT SHEETS, CHARTS, WRITTEN INSTRUCTIONS, WIRING DIAGRAMS, FINAL RECORD DRAWINGS, ETC. BIND IN SUITABLE HARD BACK RING BINDERS, PROPERLY INDEXED, AND DELIVER TO THE OWNER PRIOR TO BUILDING OCCUPANCY. IN ADDITION, AFFIX A FOLDER WITH TYPICAL "OWNER'S INSTRUCTIONS" AND "MAINTENANCE INFORMATION" INSIDE THE MECHANICAL EQUIPMENT AS APPLICABLE. THE FOLDER SHALL ALSO INCLUDE A COMPLETE STARTUP LOG FOR THE EQUIPMENT.

1.17 RECORD DRAWINGS: MAINTAIN ONE SET OF "RED-LINED" RECORD DRAWINGS ON SITE AT ALL TIMES AND PROVIDE DRAWINGS TO ENGINEER PRIOR TO FINAL INSPECTION.

1.18 WARRANTY: WARRANTY THE MATERIALS AND WORKMANSHIP COVERED BY THESE DRAWINGS AND SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. REPAIR AND/OR REPLACE ANY PARTS OF THE WORK THAT MAY PROVE TO BE DEFECTIVE AT NO ADDITIONAL COST TO THE OWNER WITHIN THE WARRANTY PERIOD.

1.19 EXISTING BUILDINGS AND CONSTRUCTION:

A. WORK UNDER THIS CONTRACT IS TO BE PERFORMED IN AN EXISTING BUILDING. BUILDING LAYOUT INDICATED IS DEVELOPED FROM EXISTING RECORD DOCUMENTS AND LIMITED FIELD VERIFICATION FOR THE PURPOSES OF DESCRIBING THE WORK. VERIFY ALL EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO SUIT ACTUAL FIELD CONDITIONS.

B. PERFORM ALL WORK IN ACCORDANCE WITH SAFETY REGULATIONS.

C. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT EXPRESS WRITTEN INSTRUCTIONS FROM ENGINEER. PROVIDE CUTTING AND PATCHING FOR EXISTING FINISHES AS REQUIRED.

D. COORDINATE INSTALLATION OF NEW PLUMBING SYSTEMS WITH EXISTING BUILDING SYSTEMS. ADJUST ARRANGEMENTS AS REQUIRED TO ACCOMMODATE INTERFERENCES.

PART 2 MATERIALS

2.1 GENERAL: ALL PLUMBING MATERIALS SHALL CONFORM TO APPLICABLE CODE REQUIREMENTS. USE PIPING MATERIALS AND METHODS SUITABLE FOR USE IN RETURN AIR PLENUMS AS APPLICABLE. UNLESS SPECIFICALLY INDICATED OTHERWISE, PROVIDE ALL NEW MATERIALS.

2.2 VALVES:

A. BALL VALVES, 3" AND SMALLER: ASTM B 62, 200 PSI WOG, TWO-PIECE CONSTRUCTION, BRASS BODY, STANDARD PORT, CHROME-PLATED BRASS BALL, REPLACEABLE "TFE" SEATS AND SEALS, VINYL-COVERED HANDLE, SOLDER ENDS.

B. CHECK VALVES, 3" AND SMALLER: MSS-SP-80, 125 PSI CWP, BRONZE BODY, Y-PATTERN, SOLDER ENDS.

2.3 HANGERS, SUPPORTS AND ANCHORS:

A. HANGERS, SUPPORTS AND ANCHORS - B-LINE, GRINNELL, PHD OR EQUAL, MANUFACTURED PRODUCTS. USE CLEVIS OR CLAMP HANGERS WITH THREADED ROD SUPPORTS AND SUITABLE FASTENERS TO BUILDING STRUCTURE. CHAIN, STRAP, PERFORATED STRAP, WIRE HANGERS OR WOOD PLUGS ARE PROHIBITED.

2.4 PIPING

A. DOMESTIC WATER PIPING (INTERIOR - ABOVE GROUND): ASTM B88 TYPE "L" HARD COPPER WITH SOLDER JOINTS; ASME B16.22 WROUGHT COPPER FITTINGS; ASTM B32 ALLOY SN95 (95%TIN/5%SILVER) SOLDER. ALL EXPOSED FIXTURE CONNECTION PIPING, SUCH AS EXTENSION TO FIXTURE STOPS, SHALL BE CHROME PLATED.

B. DRAIN, WASTE & VENT PIPING (INTERIOR - ABOVE GROUND): ASTM A74 CAST IRON HUBLESS PIPE AND FITTINGS WITH MECHANICAL JOINT COUPLINGS COMPLYING WITH CISPI 310 OR ASTM C1277.

C. ALL EXPOSED PIPING, FITTINGS, ESCUTCHEONS, ETC. LOCATED IN FINISHED AREAS MUST BE CHROME PLATED METALLIC.

2.5 PIPE INSULATION:

A. PIPE INSULATION - MANSVILLE, KNAUF, OWENS-CORNING OR EQUAL, ASTM C547-77 CLASS 1 PREFORMED GLASS FIBER, 10 PCF MAX DENSITY WITH ALL PURPOSE PAPER AND FOIL JACKET.

B. WHERE DOMESTIC WATER PIPING IS EXPOSED TO VIEW, PROVIDE PVC JACKETING W/ PVC ELBOW JACKETS. PROVIDE VAPOR BARRIER ON ALL PIPE INSULATION.

C. INSULATION SCHEDULE:

DOMESTIC HOT AND COLD WATER

PIPE SIZE	THICKNESS
<1 INCH	1.0 INCH
1-1/4 THROUGH 2 INCHES	1.5 INCH

2.6 ADA INSULATION: TRUBRO OR EQUAL PREFORMED INSULATION COVERS FOR WATER AND WASTE CONNECTIONS UNDER SINKS AND LAVATORIES.

2.7 SPECIALTIES:

A. UNIONS - PROVIDE UNIONS TO PERMIT DISASSEMBLY FOR EQUIPMENT SERVICE, REPAIRS, OR REPLACEMENT. PROVIDE DIELECTRIC UNIONS FOR CONNECTIONS BETWEEN DISSIMILAR METALS.

B. ESCUTCHEONS - PROVIDE CHROME PLATED BRASS ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS, FLOORS, OR CEILINGS.

2.8 BACKFLOW PREVENTERS - PROVIDE VACUUM BREAKER BACKFLOW PREVENTERS ON ALL HOSE OUTLETS AND OTHER LOCATIONS AS REQUIRED BY LOCAL AUTHORITY.

2.9 PLUMBING FIXTURES: PROVIDE FIXTURES AS SCHEDULED ON DRAWINGS OR EQUAL. INCLUDE ALL OPTIONS AND ACCESSORIES INDICATED OR AS REQUIRED FOR PROPER INSTALLATION.

PART 3 EXECUTION

3.1 PREPARATION: VERIFY EXISTING CONDITIONS. COMPARE DRAWINGS WITH EXISTING CONDITIONS AND ADJUST INSTALLATION TO SUIT. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WOULD PREVENT INSTALLATION OF PLUMBING WORK IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3.2 DEMOLITION: DEMOLISH EXISTING PLUMBING WORK ONLY AS REQUIRED TO INSTALL RENOVATIONS. PROTECT EXISTING EQUIPMENT TO REMAIN.

3.3 INSTALLATION: INSTALL ALL PLUMBING WORK IN ACCORDANCE WITH CODE, MANUFACTURER'S RECOMMENDATIONS AND GOOD INDUSTRY PRACTICE. ARRANGE WORK TO ALLOW EASY ACCESS TO EQUIPMENT FOR SERVICE AND MAINTENANCE.

3.4 INSTALL PLUMBING PIPING PER ACCEPTED INDUSTRY METHODS. PROVIDE PIPE SLEEVES WHERE PIPES PASS THROUGH WALLS.

3.5 PROVIDE ZONE SHUTOFF VALVES FOR WATER SUPPLIES ON BRANCH LINES AS PRESCRIBED BY CODE. LOCATE VALVES SO AS TO BE ACCESSIBLE.

3.6 INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, EXCEPT WHERE OTHERWISE INDICATED.

3.7 SLOPE WASTE PIPING AT 1/4"/FT FOR PIPE SIZES 2-1/2" AND LESS, AND 1/8"/FT FOR PIPE SIZES 3" AND LARGER. COORDINATE FINAL CONNECTIONS W/ GENERAL CONTRACTOR.

3.8 SUPPORT AND FASTEN ALL ABOVE GROUND HORIZONTAL AND VERTICAL PIPING, EQUIPMENT ETC., SECURELY IN PLACE. SPACE, SECURE AND ADJUST HANGERS WITHOUT DEFLECTION OR SAG.

3.9 PROVIDE STEEL SUPPORTS, ANCHORS, FRAMES, BRACING, PLATES, BOLTS, NUTS, WASHERS, RODS, HANGERS, UPPER ATTACHMENTS, ETC., INCIDENTAL TO INSTALLATION OF WORK AS SPECIFIED OR REQUIRED. USE HANGERS COMPATIBLE TO COPPER PIPE WHERE BARE COPPER PIPE IS SUPPORTED.

3.10 SUPPORT EQUIPMENT FROM THE STRUCTURE IN AN APPROVED MANNER. NO PORTION OF THE STRUCTURE SHALL BE OVER STRESSED BY THE HANGING OPERATION OR BY THE FINAL SUPPORTS. PROVIDE AUXILIARY STRUCTURAL MEMBERS, SUCH AS 3"X3"X1/4" ANGLES, WHERE REQUIRED BETWEEN MEMBERS OF THE STRUCTURE AND SUPPORT EQUIPMENT OR DEVICE OFF ANGLES. ATTACHMENTS THAT ARE INADEQUATE, IN THE OPINION OF THE ENGINEER, SHALL BE REPLACED AS DIRECTED.

A. PIPE SUPPORT SPACING - AS FOLLOWS OR PER CODE IF MORE STRINGENT:

COPPER - 6 FT INTERVALS FOR HORIZONTAL RUNS AND AT 4 FT INTERVALS FOR VERTICAL RUNS
STEEL - 6 FT INTERVALS FOR HORIZONTAL RUNS AND AT 4 FT INTERVALS FOR VERTICAL

3.11 PROVIDE CLEVIS STYLE HANGERS FOR INDIVIDUAL PIPE RUNS. ARRANGE HANGERS FOR WASTE PIPING SUCH THAT REQUIRED PIPE SLOPE IS MAINTAINED ALONG ENTIRE RUN OF PIPE.

3.12 ROUGH-INS - VERIFY FINAL LOCATION FOR ROUGH-INS W/ FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED. DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT. DO NOT SCALE DRAWINGS. COORDINATE CLOSELY WITH G.C.

3.13 FLOOR MOUNT WATER CLOSETS - FIRMLY AFFIX FLOOR MOUNTED WATER CLOSETS TO FLOOR AND CAULK TO FLOOR USING WHITE SILICON CAULK.

3.14 WALL HUNG FIXTURES - FIRMLY SUPPORT FROM WALL (PROVIDE ADDITIONAL STRUCTURAL SUPPORT AS REQUIRED) AND CAULK TO WALL WITH WHITE SILICONE CAULK.

3.15 FIRE RATINGS - WHERE PIPING PENETRATES FIRE-RATED CONSTRUCTION, PROVIDE SUITABLE PROTECTION TO MAINTAIN RATING.

3.16 CUTTING & PATCHING - THIS CONTRACTOR IS RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED WHICH IS INCIDENTAL TO THE INSTALLATION OF HIS WORK. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES NECESSARY FOR PLUMBING INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF THE TRADES INVOLVED. REPAIR CUT SURFACES USING MATERIALS MATCHING SPECIFIED MATERIALS AND METHODS REQUIRED FOR SURFACE.

3.17 CLEAN-UP: CONTRACTOR SHALL REMOVE ALL DEBRIS DUE TO THIS WORK AND SHALL REPAIR, CLEAN AND REPLACE ALL DAMAGED OR SOILED SURFACES AS A RESULT OF THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. REMOVAL OF DEBRIS SHALL BE DAILY AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS.

3.18 TESTING AND START-UP

A. ALL COSTS OF TESTS SHALL BE BORNE BY THIS CONTRACTOR. SHOULD TEST REVEAL ANY DEFECTIVE MATERIAL OR WORKMANSHIP, SUCH WORK SHALL BE REPLACED AND TESTS REPEATED. ALL CORRECTIONS IN PIPING SHALL BE MADE USING NEW MATERIALS.

B. TESTING - TEST ALL PLUMBING SYSTEMS PER REQUIREMENTS OF CODE AND LOCAL AUTHORITY. PROVIDE DOCUMENTATION OF ACCEPTANCE.

C. DISINFECTION - DISINFECT POTABLE WATER SYSTEMS IN ACCORDANCE WITH CODE AND LOCAL AUTHORITY. PROVIDE WRITTEN DOCUMENTATION OF DISINFECTION ACCEPTANCE.

D. START-UP: START-UP, CHECK OUT AND ADJUST ALL PLUMBING WORK FOR PROPER OPERATION. DEMONSTRATE TO ENGINEER AND LOCAL AUTHORITY THAT ALL SYSTEMS ARE IN COMPLETE SERVICEABLE CONDITION AND WILL FUNCTION AS INTENDED.

E. CLEANING: AFTER ALL FIXTURES, EQUIPMENT, ETC., HAVE BEEN INSTALLED, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. ALL PIPE FITTINGS, EQUIPMENT, ETC., SHALL BE CLEANED OF PIPE JOINT COMPOUND, GREASE, METAL SHAVINGS, ETC., WHICH HAVE ACCUMULATED THEREON. ALL DAMAGE OR DISCOLORATION OF FIXTURES OR BUILDING DUE TO FAILURE TO CLEAN UP THOROUGHLY OR FLUSH OUT PIPING PROPERLY SHALL BE CORRECTED WITHOUT ADDITIONAL COST TO THE OWNER.

PLUMBING LEGEND

CA	COMPRESSED AIR PIPING
C C	CONDENSATE PIPING
140°F	DOMESTIC 140°F WATER PIPING
140°R	DOMESTIC 140°F RETURN WATER PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER CIRCULATION PIPING
	DOMESTIC HOT WATER PIPING
F F	FILTERED WATER PIPING
SP	FIRE SPRINKLER PIPING
FM	FORCE MAIN PIPING
NG	NATURAL GAS PIPING
LP	LP GAS PIPING
GW	GREASE WASTE PIPING
MCA	MEDICAL COMPRESSED AIR PIPING
NZ	NITROUS OXIDE PIPING
O2	O2 (OXYGEN) PIPING
OD	OVERFLOW ROOF DRAIN PIPING
RD	ROOF DRAIN PIPING
SD	STORM DRAIN PIPING
	SANITARY VENT PIPING
	SANITARY WASTE PIPING
T T	TEPID WATER PIPING
TP	TRAP PRIMER PIPING
VAC	VACUUM PIPING
NPW	NON-POTABLE WATER
	BACKFLOW PREVENTION DEVICE
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER (BALANCING VALVE)
	CIRCULATION PUMP
	CONTROL VALVE
	EXTENT OF DEMOLITION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
	GAS-REGULATOR VALVE
	GATE VALVE
	GATE VALVE IN RISER
GCO	GRADE CLEANOUT
HB	HOSE BIBB
	PIPE CAP
	PIPE ELBOW
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE TEE
	PIPE TEE DOWN
	PIPE TEE UP
SP FM	SUMP PUMP
1	DEMOLITION KEYED NOTE TAG
	HATCHING INDICATES ITEMS TO BE DEMOLISHED
1	NEW WORK KEYED NOTE
	POINT OF CONNECTION - NEW TO EXISTING
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
M	THERMOSTATIC MIXING VALVE
WCO	WALL CLEANOUT
WH	WALL HYDRANT
	WASHING MACHINE BOX
"X"	WATER HAMMER ARRESTOR

NOTE: ALL ITEMS LISTED IN THIS SCHEDULE MAY NOT BE USED IN PROJECT

PLUMBING ABBREVIATIONS

(X)	EXISTING
AAV	AIR ADMITTANCE VALVE
A.F.F.	ABOVE FINISHED FLOOR
A.R.C.I.	ACID RESISTANT CAST IRON
ADA	AMERICANS WITH DISABILITIES ACT
BRZ.	BRONZE
BT	BATHTUB
C.I.	CAST IRON
CO	CLEANOUT
CONC.	CONCRETE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DIA.	DIAMETER
E.C.I.	ENAMELED CAST IRON
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GA.	GAUGE
GAL.	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS-FIRED WATER HEATER
HB	HOSE BIBB
INCL.	INCLUDED
KS	KITCHEN SINK
LAV	LAVATORY
LP	LIQUID PROPANE
MS	MOP SERVICE BASIN
NAT.	NATURAL GAS
NKL.	NICKEL
NON SIMULT.	NON SIMULTANEOUS
O.F.L.C.	OPEN FRONT LESS COVER
OB	OUTLET BOX
OC	ON CENTER
ORDL	OVERFLOW ROOF DRAIN LEADER
PC	PLUMBING CONTRACTOR
PRESS. BAL.	PRESSURE BALANCED
RCVY.	RECOVERY
RDL	ROOF DRAIN LEADER
SA	WATER HAMMER ARRESTOR
SH	SHOWER
SK	SINK
SLD.	SLIDE
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VC	VITREOUS CHINA
VR	VANDAL RESISTANT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

PLUMBING FIXTURE SCHEDULE

DRAWING CODE	FIXTURE		DESCRIPTION	MANUFACTURER	MODEL	NOTES	PIPE SIZE			
							DCW	DHW	WASTE	VENT
WC1	FLUSH VALVE WATER CLOSET, WALL HUNG, 1.6GPF, ADA	BOWL	ELONGATED, SIPHON JET, V.C., 2-1/8" TRAPWAY; TOP SPUD; AFWALL, MOUNT 17-19"A.F.F.	AMERICAN STANDARD	3352.101	6	1"	-	4"	2"
		FLUSH VALVE	11.5" HIGH, 1.6GPF	SLOAN	111-1.6 YBC					
		SEAT	OFLC w/ SELF-SUSTAINING S.S. CHECK HINGE; HEIGHT 17-19" AFF	CHURCH	295SSCT					
		CARRIER	VERTICAL FLOOR MOUNT	ZURN	ZN1208-N4					
LAV1	LAVATORY WALL HUNG, 1.2GPM, ADA	BOWL	19"x19" VITREOUS CHINA, RIM 34" AFF MAX.	NAMEEK'S	0355.012	1,2,3,7	1/2"	1/2"	2"	2"
		FAUCET	SINGLE HOLE, SINGLE LEVER HANDLE, SOLID BRASS CONSTRUCTION, CERAMIC DISC	NAMEEK'S	W11USNL-CR					
		DRAIN	CAST BRASS, CHROME PLATED, OPEN GRID STRAINER P.O. PLUG WITH BRASS TAILPIECE	MCGUIRE	155A					
		MIXING VALVE	LEAD FREE THERMOSTATIC MIXING VALVE - SETPOINT = 105°F INSTALL ON HOT WATER SUPPLY, ASSE 1070	CASH ACME	HG-135					
LAV2	UNDERMOUNT LAVATORY,0.5GPM, ADA	BOWL	19"X16" RECTANGULAR, VITREOUS CHINA, 34"A.F.F., MAX.	KOHLER	K-2330-G	2,4,5	1/2"	1/2"	2"	2"
		FAUCET	SINGLE HOLE, SINGLE LEVER HANDLE, BRASS SPOUT AND METAL HANDLE CONSTRUCTION, CHROME FINISH, STAINLESS STEEL SUPPLIES INCLUDED	MOEN	9417F05					
		DRAIN	CAST BRASS, CHROME PLATED, OPEN GRID STRAINER P.O. PLUG WITH BRASS TAILPIECE	MCGUIRE	155A					
		MIXING VALVE	LEAD FREE THERMOSTATIC MIXING VALVE - SETPOINT = 105°F INSTALL ON HOT WATER SUPPLY, ASSE 1070	CASH ACME	HG-135					
WCO	WALL CLEANOUT	FIXT	ROUND S/S ACCESS COVER & SCREW, RECESS BRONZE THRD. PLUG	SIOUX CHIEF	870		-	-	MATCH	-

NOTES
1. PROVIDE MATCHING WALL HANGER. COORDINATE WITH G.C. FOR WALL REINFORCING.
2. PROVIDE BRASS 1-1/2" TAILPIECE, CAST BRASS SLIP JOINT P-TRAP WITH CLEANOUT; PROVIDE ADA OFFSET ARRANGEMENT WHERE REQUIRED.
3. PROVIDE ADA INSULATION KIT
4. COORDINATE WITH MILLWORK.
5. COORDINATE ADA MILLWORK ENCLOSURE FOR WATER AND DRAIN PIPING UNDER SINK.
6. TRIP LEVER OR FLUSH HANDLE TO BE LOCATED ON WIDE SIDE OF STALL OR TOILET ROOM.
7. PROVIDE 1/2" IPS X 3/8" OD ANGLE BRASS STOP(S) WITH RIGID COPPER RISERS. ALL EXPOSED PIPING SHALL BE CHROME PLATED.

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CITY OF WILMINGTON SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
SPECIFICATIONS, LEGEND, ABBREVIATIONS, SCHEDULES

ORIG SUBMISSION: 2024.10.29

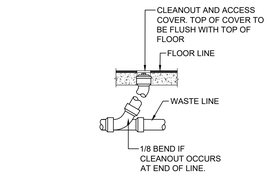
SHEET:
P-001

100% PERMIT SET

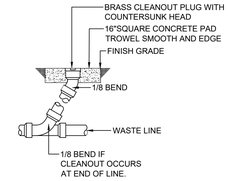
E D C B A

1 2 3 4 5 6

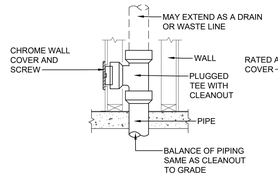
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PAPER SIZE



FLOOR CLEANOUT (FCO)

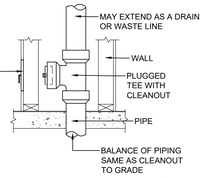


GRADE CLEANOUT (GCO)



NOTE: CLEANOUT TO BE FLUSH WITH FINISHED WALL.

WALL CLEANOUT (WCO)

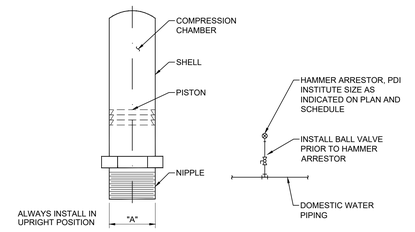


NOTE: CLEANOUT TO BE FLUSH WITH FINISHED WALL.

WALL CLEANOUT (WCO) RATED WALL

D5 TYPICAL CLEANOUT DETAILS

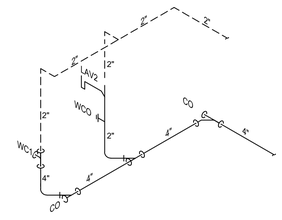
NOT TO SCALE



P.D.I. SYMBOL	FIXTURE UNIT RATING	A SIZE
A	1-11	1/2"
B	12-32	3/4"
C	33-60	1"
D	61-113	1"
E	114-154	1"
F	155-330	1"

C5 HAMMER ARRESTOR DETAIL

NOT TO SCALE



B6 WASTE-VENT RISER DIAGRAM

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10/29/2024

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CITY OF WILMINGTON
SKYLINE CENTER UPFIT

929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
DETAILS

ORIG SUBMISSION: 2024.10.29

SHEET:
P-002

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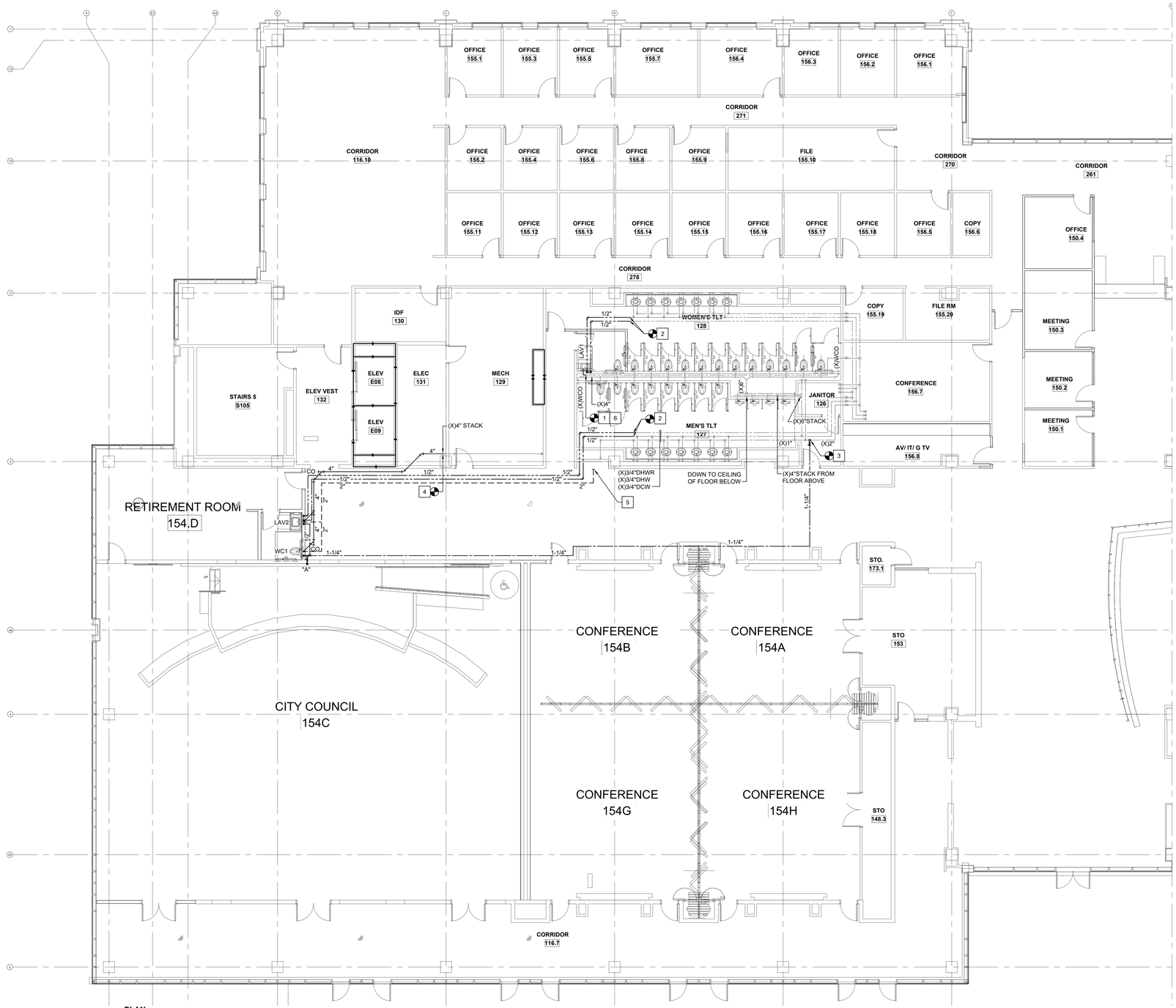
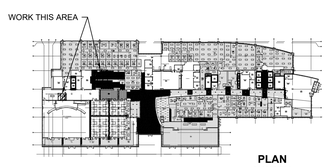


A1 PLUMBING FLOOR PLAN
1/8" = 1'-0"
0 4' 8' 16'
PLAN NORTH

GENERAL NOTES

KEYED NOTES

1. PROVIDE DCW SUPPLY FROM EXISTING DCW HEADER INSIDE OF CHASE WALL.
2. EXTEND EXISTING DHW AND DHWR PIPING TO NEW LAVATORY.
3. PROVIDE NEW BRANCH PIPING WITH ISOLATION VALVE TO SERVE NEW TOILET ROOM 154.D
4. CONNECT NEW 4"W PIPING TO EXISTING 4" STACK.
5. FIELD LOCATE AND CONNECT TO EXISTING VENT PIPING.
6. CONNECT WASTE AND VENT PIPING FOR NEW LAVATORY INTO EXISTING WASTE AND VENT PIPING INSIDE OF PLUMBING CHASE.



A6 KEYPLAN
NOT TO SCALE
PLAN NORTH

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929 N Front Street,
Wilmington, North Carolina 28401

LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
PLUMBING
LEVEL 1 FLOOR PLAN
AREA "A"

ORIG SUBMISSION: 2024.10.29

SHEET:
P-101

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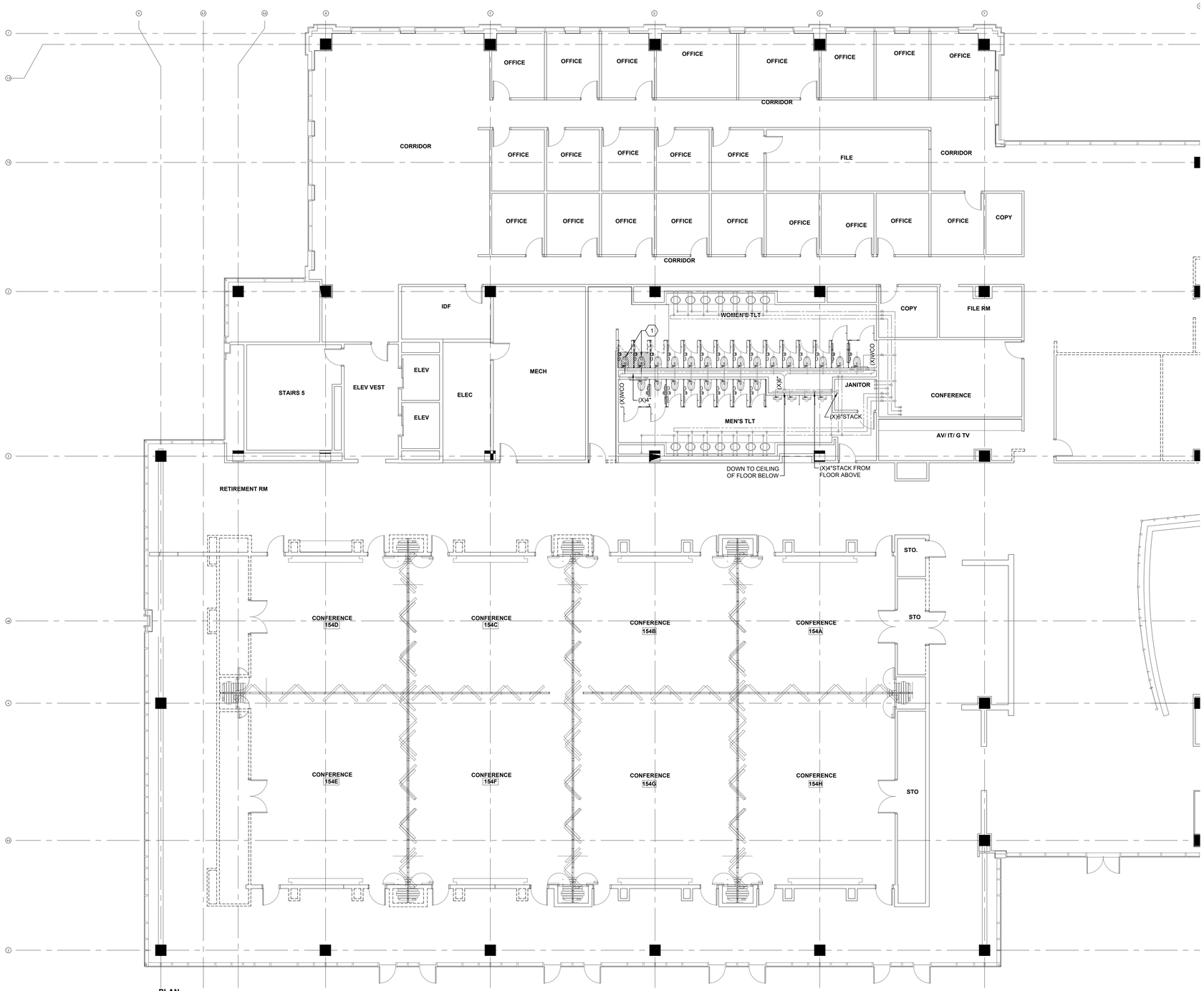


A1 FLOOR PLAN
NOT TO SCALE

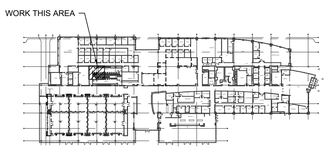
PLAN NORTH

DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR MUST REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL FIXTURES, EQUIPMENT, PIPING, SUPPORTS, ACCESSORIES, ETC. MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE PLUMBING DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY PLUMBING WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR THE ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID.
2. ALL EXISTING PLUMBING FIXTURES, EQUIPMENT AND PIPING SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
3. THESE DRAWINGS ARE COMPILED BY THE ENGINEER FROM THE OWNER'S AS-BUILT RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE PLUMBING CONTRACTOR MUST VERIFY ALL PIPING, FIXTURE LOCATIONS, DIMENSIONS, MATERIALS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.
4. WHERE PLUMBING SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL REMAIN OR BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
5. PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ENGINEER IN WRITING WHEN SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
6. SURVEY THE EFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS MAY EXIST.

DEMOLITION KEYED NOTES

1. REMOVE WATER CLOSET. CAP CARRIER NIPPLE INSIDE WALL CHASE. CAP SUPPLY PIPING INSIDE OF WALL CHASE. COORDINATE WITH GENERAL CONTRACTOR TO PATCH WALLS TO MATCH EXISTING.



A6 KEYPLAN
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PLAN NORTH

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NORTH CAROLINA

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10/29/2024

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LS3P PROJECT: 7701-230545

Δ	DATE	DESCRIPTION

SHEET NAME:
PLUMBING
LEVEL 1 FLOOR PLAN
AREA "A"

ORIG SUBMISSION: 2024.10.29

SHEET:
PD101

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