Augment Spa

Jacksonville, NC Onslow County

Lisle Architecture & Design, Inc.

614 Market Street Wilmington, North Carolina 28401 (910) 763-6053

OT Engineering, PLLC 8208 Masonboro Sound Rd.

Wilmington, North Carolina 28409 (910) 617.0641

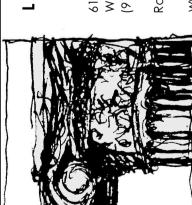






AUGMENT SP, 2457 Gum Brc Suite 1700 Jacksonville, I

Lisle Archite & Desigr



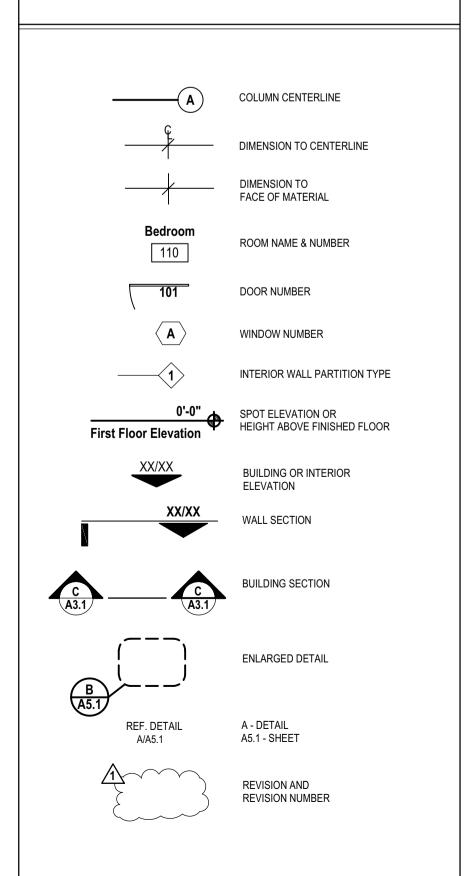
SHEET TITLE - NUMBER

Cover Sheet

Abbreviations

ACOUSTICAL CEILING TILE INSULATION ADJ. A.F.F. JOIST BEARING **ADJUSTABLE** ABOVE FINISHED FLOOR LAVATORY MAXIMUM ALUMINUM METAL BUILDING SUPPLIER ALTERNATE ANOD. ANODIZED MECH. MECHANICAL BOARD MINIMUM BLDG. MISC. MISCELLANEOUS BUILDING M.O. MTD. BM. MASONRY OPENING BEAM MOUNTED MTL. **BEARING HEIGHT** METAL CENTER LINE ON CENTER CL CLG. CEILING O.H. OPPOSITE HAND CLR. PLYWOOD CLEAR C.J. CONTROL JOINT P.T. PRESSURE TREATED PAINT (ED) CONCRETE MASONRY UNIT COL. COLUMN REFER, REFERENCE REINF. RM. ROT. S.C. CONC. CONCRETE REINFORCING CONT. DBL. DET. ROOM ROTATED CONTINUOUS DOUBLE **SOLID CORE** DETAIL SCHEDULE (ED) DR. DOOR SHT. SIM. SPEC. STD. D.S. DOWNSPOUT SHEET SIMILAR DWG. DRAWING SPECIFICATION (S) **EXPANSION JOINT** STANDARD **ELEVATION** STEEL ELEC. **ELECTRICAL** STRUCTURE (AL) EQ. **EQUAL TEMPERED** E.W.C. ELECTRIC WATER COOLER T.O.M. TOP OF MASONRY EXP. **EXPANSION** T.O.P. EXT. TOP OF PARAPET **EXTERIOR** T.O.S. TOP OF STEEL F.F. FINISH FLOOR T.O.W. TOP OF WALL FIN. FINISH (ED) **TUBULAR STEEL** FLR. FLOOR ` **TYPICAL** FACE OF CONCRETE UNLESS NOTED OTHERWISE U.N.O FACE OF GRADE BEAM V.C.T. VINYL COMPOSITION TILE FACE OF MASONRY F.O.S. FACE OF STUD VERT. VERTICAL F.R.P. W.C. WATER CLOSET FIBERGLASS REINFORCED PANEL GAUGE, OR GAGE WATER HEATER **GLASS** GYP. BD. GYPSUM BOARD HOSE BIB **HOLLOW CORE**

Legend



Vicinity Map



A1.1 Floor Plans A8.1 Schedules

Index of Drawings

Cover Sheet Code Summary LS1 Life Safety Plan

SP-1 ADA Notes and Details

ARCHITECTURAL

A6.1 Finish Plan A6.2 Interior Elevations A7.1 Reflected Ceiling Plan

PLUMBING

P0.1 Plumbing Schedules & Specifications P1.1 Plumbing Piping Plans

MECHANICAL

M0.1 Mechanical Schedules & Specifications M1.1 Mechanical Plans

ELECTRICAL

E0.1 Electrical Legend, Schedules and Specifications

E0.2 Panel Schedules and Electrical Riser

E1.1 Lighting Plans E2.1 Power Plans

HARDWARE

HEATING/VENTILATING/ AIR CONDITIONING

H.V.A.C.

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT ONE AND TWO FAMILY DWELLINGS AND TOWNHOLISES)

Name of Project: Augment Spa	1				
Address: 2457 Gum Branch Rd	. Suite 1700			Zip Code 28540	
Owner/Authorized Agent:		Phone # ()		E-Mail	
Owned By:	☐ City/County	■ Private	□ State		
Code Enforcement Jurisdiction:	□ City	■ County Jacksonville	☐ State		
CONTACT: David Lisle					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Lisle Architecture & Design	David Lisle	7903	(910 ₎ 763.6053	ashleyh@lislearchitecture.com
Civil				()	
Electrical	OT MEP	Chris Lippincott	026003	(910 ₎ 617.0641	chris@otmep.com
Fire Alarm				()	
Plumbing	OT MEP	Chris Lippincott	026003	(910) 617.0641	chris@otmep.com
Mechanical	OT MEP	Chris Lippincott	026003	(910) 617.0641	chris@otmep.com
Sprinkler-Standpipe					
Structural				()	
Retaining Walls > 5 feet High				()	
Other				()	
("Other" should include firms	and individuals such as to		Lintarian dasianana ata	_ ()	-
(Other Should Heldde Hills	and menvicuous scen us tre	iss, precust, pre engineered		<u>'</u>	
2018 NC BUILDING CODE:	☐ New Building	☐ Shell/Core	■ 1 st Time Interior C	Completions	
	□ Addition	☐ Phased Construction			
2018 NC EXISTING BUILDIN	G CODE:	Prescriptive	☐ Alteration Level	I Historic Propert	У
(check all that apply)		☐ Repair ☐ Alteration Level I		II ☐ Change of Use	
		☐ Chapter 14	☐ Alteration Level 1	II	
		ATAMETICE (C) (CI A)			
CONSTRUCTED: (date)		RENT USE(S) (Ch. 3):			
CONSTRUCTED: (date) RENOVATED: (date)		RENT USE(S) (Ch. 3): POSED USE(S) (Ch. 3):			
RENOVATED: (date)	PROP	POSED USE(S) (Ch. 3):			
RENOVATED: (date) OCCUPANCY CATEGORY (PROP	POSED USE(S) (Ch. 3):			
RENOVATED: (date) OCCUPANCY CATEGORY (PROP	POSED USE(S) (Ch. 3):			□ V-A
RENOVATED: (date) OCCUPANCY CATEGORY ('BASIC BUILDING DATA Construction Type:	Table 1604.5): Current:	POSED USE(S) (Ch. 3):	Proposed:		□ V-A
RENOVATED: (date) OCCUPANCY CATEGORY (BASIC BUILDING DATA Construction Type: (check all that apply)	Table 1604.5): Current:	POSED USE(S) (Ch. 3):	Proposed:		
RENOVATED: (date) OCCUPANCY CATEGORY (BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers:	Table 1604.5): Current: _	POSED USE(S) (Ch. 3):	Proposed:	IV	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers:	Table 1604.5): Current: _	OSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry	IV	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District:	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes	OSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District:	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes	OSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area:	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections Required:	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area:	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections Required:	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections Required: Floor Ex 3rd Floor	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections Required: Floor Ex 3rd Floor 2nd Floor	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections Required: Floor Ex 3rd Floor 2nd Floor Mezzanine	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE Subtotal	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers: • No Standpipes: • No Primary Fire District: Special Inspections Required: Floor Ex 3rd Floor 2nd Floor Mezzanine 1st Floor	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE Subtotal	□ IV □ NFPA 13D	
RENOVATED: (date) OCCUPANCY CATEGORY (** BASIC BUILDING DATA Construction Type: (check all that apply) Sprinklers:	PROP Table 1604.5): Current: _ I-A I-B Partial Class I No Yes No Yes	POSED USE(S) (Ch. 3):	Proposed: □ III-A □ III-B □ NFPA 13R □ Wet □ Dry rd Area: EA TABLE Subtotal	□ IV □ NFPA 13D	

APPENDIX B

ALLOWABLE HEIGHT INTERIOR UPFIT ONLY SHOWN ON PLANS ALLOWABLE Building Height in Feet (Table 504.3) Building Height in Stories (Table 504.4) 1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

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

2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES

APPENDIX B

ACCESSIBLE DWELLING UNITS (SECTION 1107)

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

ACCESSIBILE PARKING (SECTION 1106)

	TOTAL # OF PA	RKING SPACES	# OF AC			
LOT OR PARKING				VAN SPA	TOTAL # ACCESSIBLE	
AREA	REQUIRED	PROVIDED	D REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

(17522 2502.1)										
USE	w	ATERCLOSET	rs	URINALS	LAVATORIES			SHOWERS/	DRINKING FOUNTAINS	
OSL	Male	Female	Unisex	UNINALS	Male	Female	Unisex	TUBS	Regular	Accessible
SPACE	EXIST'G		1				1			
	NEW								1	1
	REQ'D		1				1		1	1

SPECIAL APPROVALS

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

2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES

APPENDIX B

Primary Occupancy Classi	fica	tion(s):						
Assembly		A-1		□ A-2		□ A-3	□ A-4	□ A-5
Business	■							
Educational								
Factory		F-1 Mc	derate	□ F-2	Low			
Hazardous		H-1 De	tonate	□ H-2	Deflagrate	☐ H-3 Comb	ust 🔲 H-4 Health	☐ H-5 HPM
Institutional		I-1		□ I-2		□ I-3	□ I-4	
I-3 Condition		1	2					
I-2 Condition		1	2					
I-3 Condition		1	2	3	4	5		
Mercantile		1						
Residential		R-1		□ R-2		□ R-3	□ R-4	
Storage		S-1 Mc	oderate		□ S-2 L	ow	High-piled	
		P arkir	ng Garag	ge 🗆 Ope	en 🗆 Enclo	sed	 Repair Garag 	ge
Utility and Misc	ella	neous						
Accessory Occupancy Clas	:e:	aatiam(a	۸.					
Accessory Occupancy Clas Incidental Uses (Table 509)								
This separation is not								
Special Uses (Chapter 4 – I					,	. ,		
Special Provisions: (Chapte								
Mixed Occuupancy:							Hr. Exception:	
☐ Non-separated Use (508.3		- 110	_ 100	Берши				
☐ Separated Use (508.4)—Sof the ratios of the actual floor	See 1							
Select one								
4 . 4 4	of 1	Occupa	nev 1	40	tual Area	of Occupancy ea of Occupar	v R	
Actual Area o							<u>y B</u> ≤ 1	

2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES

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}
c. Ratio $(F/P) = $ d. $W = $ Minimum wid	th of public way = ble under conditions of Sec	tion 507.	mum 3 storiae) (506.2)		
3. Maximum Building Are				of air traffic control tower	s must comply with Table

_____ + = ____ ≤ 1.00

2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES

APPENDIX B

PERCENTAGE OF WALL OPENING CALCULATIONS INTERIOR UPFIT ONLY DECREE OF ORENINGS

2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: Yes
No Exit Signs: Yes
No Fire Alarm: Yes
No Smoke Detection Systems: Yes No Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS

- Life Safety Plan Sheet #: LS1
- ☐ Fire and/or smoke rated wall locations (Chapter 7) ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8) ☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- ☐ Exit access travel distances (1017) □ Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1)]
- ☐ Dead end lengths (1020.4)
- ☐ Clear exit widths for each exit door
- ☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation ☐ Location of doors with panic hardware (1010.1.10)
- ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9) ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- ☐ The square footage of each fire area (202)
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

APPEND	DIX B

ENERGY SUMMARY INTERIOR UPFIT ONLY

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 versus the annual energy cost for the proposed design.

Existing building envelope complies with code: \Box (If checked, the remainder of this section is not applicable.)

Climate Zone: ☐ 3A	□ 4A □ 5	A
Method of Compliance:		
Energy Code: Perfo	ormance 🖵 Pr	escriptive
ASHSAE 90.1: ☐ Perfo	ormance 🖵 Pr	escriptive
Other: Performance (specify source)	

Exempt Building:

Provide code or statutory reference: _____

THERMAL ENVELOPE: (Prescriptive method only) Roof/ceiling Assembly (each assembly) Description of assembly: *U*-Value of total assembly:

Description of assembly

R-Value of insulation: Skylights in each assembly: *U*-Value of skylight: total square footage of skylights in each assembly: Exterior Walls (each assembly)

U-Value of total assembly: *R*-Value of insulation: Openings (windows or doors with glazing) *U*-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values: Walls below grade (each assembly) Description of assembly: *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: Floors slab on grade

Description of assembly: *U*-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:

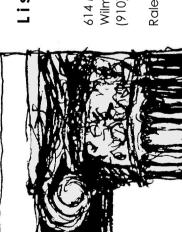
2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES





AUGMENT SP 2457 Gum Br Suite 1700 Jacksonville,

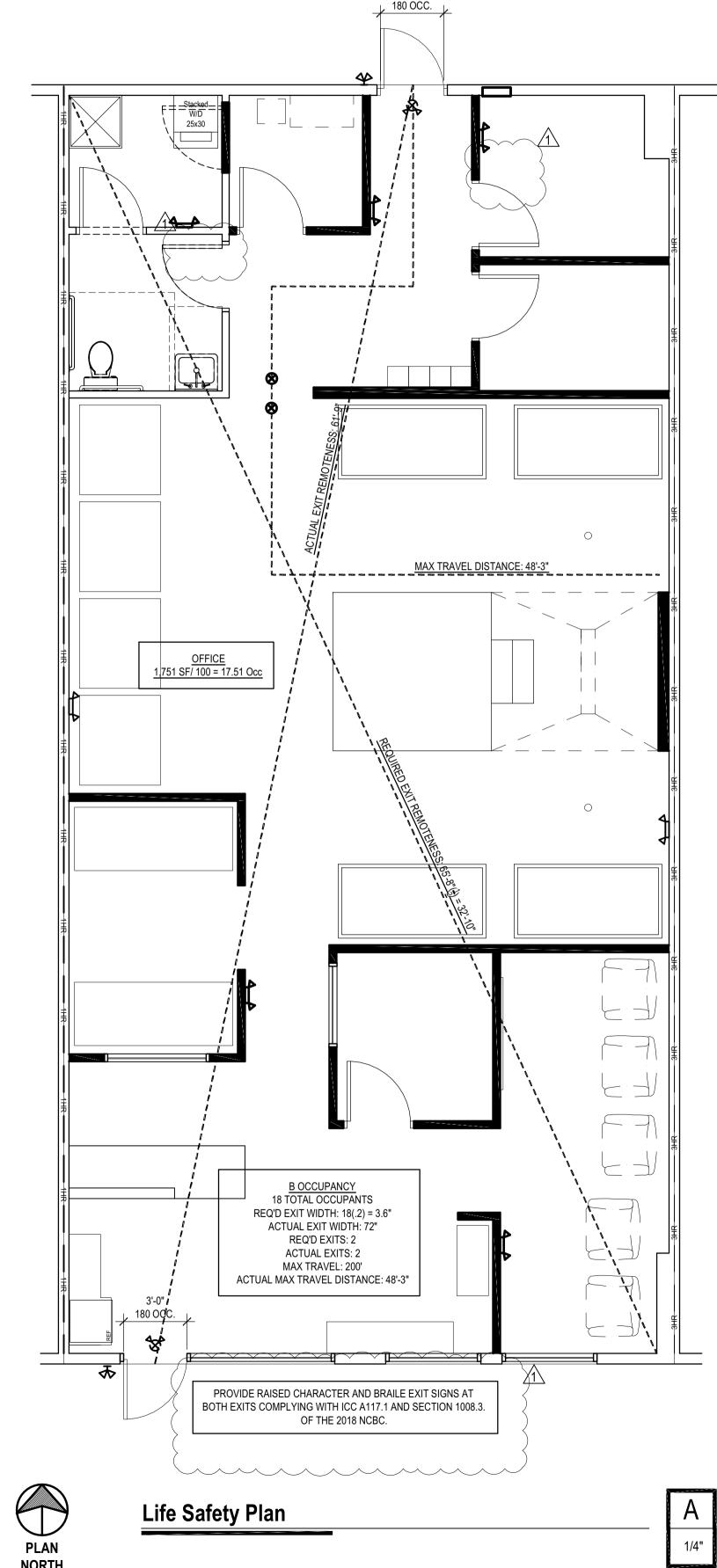
o c` chit esig



SHEET TITLE - NUMBER **Building Code Data Summary**





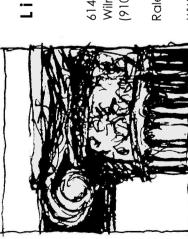






AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Lisle Architecture
& Design, Inc.
614 Market Street
Wilmington, NC 28401
(910) 763.6053



SHEET TITLE - NUMBER

Life Safety



2. A least one accessible route shall connect accessible buildings, accessible facilities, accessible elements and accessible spaces that are on the same site. (2018 NCSBC 1104.2,

ANSI-2009 4). Directional Signage indicating the route to the nearest like accessible element shall be provided at the following locations. These directional signs shall include the International Symbol of Accessibility and sign charactes shall meet the visual character requirments in accordance with ICC A117.1

1. Inaccessible building entrances; 2. Inaccessible public toilets and bathing facilities; 3. Elevator not serving an accessible route. ; 4. At each separate-sec toilet and bathing room indicating the location of the nearest family/assisted toilet or bathing room where provided in accordance with Section 1109.2.1.; 5. At exits and exit stairways serving a required accessible space, but not providing an approved accessible means or egress, signage shall be provided in accordance with Section 1009.10.; 6. Where drinking fountains for persons using wheel chairs and drinking fountains for standing persons are not located adjacent to each other, directional signage shall be provided indicating the location of the other drinking fountain. (2018 NCSBC 1111.2, ANSI-2009 703)

- 3. The required capacity of each door opening shall be sufficent for the occupant load therof and shall provide a minimum clear width of 32 inches. Clear opening of doorways with swinging doors shall be measured between the face of the door and the stop with the door open 90 degrees. The height of the door openings shall be not less than 80 inches. (2018 NCSBC 1010.1.1, ANSI-2009I 404.2.2).
- 4. Hand activated door opening hardware shall be centered between 34" to 48" above the floor. Latching and locking doors that are hand activated and which are in the path of travel, shall be openable with a single effort by lever type hardware, by panic bars, push-pull activating bars, or other hardware designed to provide passage without requiring the ability to grasp the opening hardware. Locked exit doors shall operate as above in egress direction. Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever operated mechanism, push-type mechanism, and U-shape handles are acceptable designs. When sliding door are fully open, operating hardware shall be exposed and usable from both sides. (2018 NCSBC 1010.1, ANSI-2009 404.2.6).
- 5. The width of the level and clear area on the side to which the door swings shall extend 24" past the strike edge of the door for exterior doors and 18" past the strike edge for interior doors. (ANSI-2009 404.2.3.2). Refer to Door Clearances this Sheet.
- 6. Thresholds at doorways shall not exceed $\frac{3}{4}$ inches in height above the finished floor or landing for sliding door serving dwelling units or $\frac{1}{2}$ inch above the finished floor or landing for other doors. Raised thresholds and floor level changes greater than $\frac{1}{4}$ inch at doorways shall be ebeveled with a slope not greater than one vertical unit to two units horizontal. (2018 NCSBC 1010.1.7, ANSI-2009 404.2.4).
- 7. The force for pushing or pulling open interior swinging doors, other than fire doors, shall not exceed 5 pounds. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closesd position. For other swinging doors, as well as sliding and folding doors, the door latch shall release when subjected to a 15-pound force. The door shall be set in motion when subjected to a 30-pound force. The door shall swing to a full-open position when subjected to a 15-pound force. (2018 NCSBC 1010.1.3. ANSI-2009 404.2.8).
- . Walks and sidewalks shall have a continuous slip resistant surface that shall not be interrupted by steps or abrupt changes in level greater than 1/4". If walks cross driveways or parking lots, then they shall blend to a common level by means of curb cuts, curb ramps or sloped areas whose gradient shall not exceed 1:12. Walks shall maintain a minimum of 48" in width. (2018 NCSBC 1104)
- 9. Abrupt changes in level along any of accessible route shall not exceed 1/2". When changes in level do occur, they shall be beveled with a slope no greater than 1:2. (ANSI-2009 303).
- 10. If a public walk has less than 60 inches clear width, then a 60 inches by 60 inches minimum clear passing space shall be provided at intervals not greater than 200 feet. The T-intersection of two walks is an acceptable passing space. (ANSI-2009 403.5.2).
- 11. All public walks that terminate at accessible entrances shall have a clear floor area at the door(s) in compliance with the applicable requirements of ANSI-2009 Table 404.2.3.
- 12. Circular handrail gripping surfaces shall be between 1-1/4" min. and 2" max. width or outside diameter. Noncircular handrail cross sections shall have a perimeter dimension of 4 inches minimum and $6\frac{1}{4}$ inches maximum, and a cross section dimension of $2\frac{1}{4}$ inches maximum. The shape shall provide an equivalent gripping surface. Handrail surfaces shall be smooth with no sharp edges. (2018 NCSBC 1014.3, ANSI-2009 505.7)
- 13. Clear space between a handrail and a wall or other surface shall be not less than 1-1/2 inches. A handrail and a wall other surface adjacent to the handrail shall be free of any sharp or abrasive objects. (2018 NCSBC 1014.7, ANSI-2009 505.5).
- 14. Handrail end shall return to a wall, guard or the walking surface or shall be continious to the handrail of an adjacent flight of stairs or ramp run. (2018 NCSBC 1014.6, ANSI-2009 505.10) 15. If alarm indicating appliances are provided, then audible and visual appliances complying
- with ANSI-2009 702 shall be provided. 16. The mounting height for controls and operating mechanisms in accessible spaces, along
- accessible routes, or part of accessible elements (e.g. a light switch, dispenser control, or Automatic Teller Machine) shall comply with ANSI-2009 Chapter 3. Forward Reach: (ANSI-2009 308.2) For an *unobstructed* forward reach, controls and operating mechanisms shall be

located between 15 inches minimum to 48 inches maximum above the finished floor or ground level. For a forward reach over an *obstruction* the maximum height of any control or operating

mechanism above the finished floor or ground level shall be: (1) 48" if the depth of the obstruction is less than 20 inches; or

(2) 44" if the depth of the obstruction is 20 inches to 25 inches Parallel Reach: (ANSI-2009 308.3)

For an *unobstructed* 10 inches maximum side reach, controls and operating mechanisms shall be located 9 inches minimum to 54 inches maximum above the

For a side reach over an *obstruction*, the obstruction shall have a 34 inches maximum height and a 24 inches maximum depth. Controls and operating mechanisms shall be located 46 inches maximum above the finished floor or ground level.

- 17. Electrical and communications system receptacles mounted on, or built in to, walls or partitions shall be located 15 inches minimum above the finished floor or ground level. (ANSI-2009 308).
- 18. The international symbol of accessibility shall be the standard used to identify facilities that are accessible to, and usable by, physically disabled persons as set forth in these building standards and ADA. The symbol specified above shall consist of a white figure on a blue background. The blue shall be equal to color number 15090 in federal standard 595A. All Signage shall comply with Chapter 11 of the 2018 NC State Building Code (2018 NCSBC
- 19. At kitchen sinks, faucet controls, and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5lbs. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds. Sinks shall be mounted on counter surface no higher than 34" above finish floor and shall provide knee clearance of 27" high (min.) x 30" wide (min.) x 19": deep (min.) underneath sink. (ANSI-2009 309.4).
- 20. Toilet flush controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Controls for the flush valves shall be mounted on the wide side of the toilet areas, no more than 44" above the floor. The force required to activate controls shall be no greater than 5 lbs. (ANSI-2009 604.6).

21. Toilet Accessories. (ANSI-2009 606)

ADA Notes **

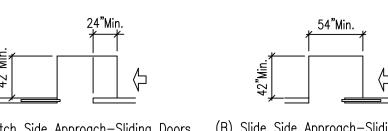
A. A clear floor space of 30" x 48" complying with Section 305 shall be provided in front of a lavatory to allow a forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend into knee and toe space underneath the lavatory.

Mirrors shall be mounted with the bottom edge no higher than 40" from the floor. Towel, Sanitary Napkins, Waste Receptacles. Where towel, sanitary napkins, waste receptacles, and other similar dispensing and disposal fixtures are provided, at least one of each type shall be located with all operable parts, including coin slots, within 40"

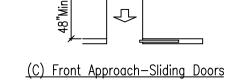
C. Toilet Tissue Dispensers. Toilet tissue dispensers shall be located on the wall within 12" of the front edge of the toilet seat.

- 22. Height and Clearances. Lavatories shall be mounted with the rim or counter surface no higher than 34"(865mm) above the finished floor. Provide a clearance of at least 29"(735mm) from the floor to the bottom of the apron. Knee and toe clearance shall comply with Restroom Details this sheet. Lavatories shall be mounted with a minimum distance of 18" to the centerline of the fixture. (ANSI-2009 606.3)
- 23. Clear Floor Space. A clear floor space of 30" x 48" (760mm x 1220mm) complying with ADA 11.6 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19"(485mm) underneath the lavatory. See Restroom Details this sheet. (ANSI-2009 606.2)
- 24. Exposed Pipes and Surfaces. Hot water and drain pipes under lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories.
- 25. Faucets shall comply with ANSI-2009 606.4. Lever- operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
- 26. Grab bars, tub and shower seats, fasteners and mounting devices shall be designed for 250 lbs. per linear foot load. (ANSI-2009 610.4).
- 27. Grab bars shall be located on each side, or one side and the back of the physically disabled toilet stall or compartment and shall be securely attached 33" minimum and 36" maximum above and parallel to the floor. (ANSI-2009 609.4.1).
- 28. The diameter or width of the gripping surface of the grab bar shall be 1 1/4" to 1 1/2" or the shape shall provide an equivalent gripping surface. (ANSI-2009 609.2).
- 29. Alcoves. For Parallel approach where the clear floor space is positioned for parallel approach, the alcove shall be 60 inches minimum in width where the depth exceeds 15 inches. For Forward Approach where the clear floor space is positioned for a forward approach, the alcove shall be a minimum of 36 inches minimum where the depth exceed 24 inches. (ANSI-2009 305.7)
- 30. Water closet compartments shall be equiped with a door that has an automatic closing device, and shall have a clear unobstructed opening width of 32" when located at the end and 34" when located at the side with the door positioned at an angle of 90 degrees from it's closed position. Except for door opening widths and door swings, a clear unobstructed access not less than 44" shall be provided to water closet compartments designed for use for the handicapped/people with disabilities and the space immediately in front of a water closet compartment shall be not less than 48" as measured at right angles to compartment door in it's closed position. (ANSI-2009 604.9)
- 31. Dining & Work Surfaces shall have a min width of 36" and a max height of 36" (ANSI-2009 902) and shall have a 30"Wx48"L minimum clear floor space.
- 32. Elevator operation shall be automatic with each car equipped with a self-leveling device that will automatically bring the car to the floor landings with a tolerance of 1/2 inch under rated loading to zero loading conditions. Self-leveling shall be automatic and independent of the elevator operating mechanism and shall correct for over-travel and under-travel. (ANSI-2009 407.4.4).
- 33. Automatic, power operated, horizontal sliding car and hoistway doors shall be provided.
- 34. Cabs with center opening doors shall have an 80 inches minimum width and a 51 inches minimum depth. The depth of the cab from the inside face of the cab doors to the wall opposite shall be 54 inches minimum. (ANSI-2009 407.4.1).
- 35. Cabs with side-slide doors shall have a 68 inches minimum width and 51 inches minimum depth. The depth of the cab from the inside face of the cab floor(s) to the wall opposite shall be 54 inches minimum. (ANSI-2009 407.4.1)
- WARNING: Other codes, including but not limited to: Fire Code, Building Code, Elevator Code and Regulations adopted by the State Fire Marshall may contain more restrictive provisions regarding elevator cab. size. Check with the appropriate enforcing officals for
- 36. Regardless of the door position, the clear opening shall be 36 inches minimum. (ANSI-2009
- 37. A 1-1/4" maximum gap shall be permitted between the car platform sill and the edge of any hoistway landing. (ANSI-2009 407.4.3)
- 38. Call buttons: The common horizontal centerline shall be a nominal 42 inches above the finished floor (36" min. and 48" max. height), except for the photo electric tube by-pass switch, emergency controls shall be grouped in one location in or adjacent to the bottom of the panel and no lower than 2'-11" from the floor. For multiple controls, one set must comply with the height requirements. The emergency telephone shall be positioned at 4'-0" maximum above the floor with a 2'-5" minimum cord. (ANSI-2009 407.4.6).
- 39. Car control buttons shall be 3/4" minimum and raised 1/8" minimum (+/- 1/32"). Control buttons shall be illuminated, have square shoulders, and be activated by a mechanical motion that is detectable. All buttons shall be designated by a 5/8" minimum Arabic symbol to the left of the control button with a braille symbol below the Arabic symbol. 3/8" minimum shall be provided between rows of control buttons. Raised characters shall be white on a black background. Controls and emergengy equipment identified by raised symbols shall include: door open, door close, alarm bell, emergency stop and telephone. (ANSI-2009 407.4.7).
- 40. A handrail is required on one wall of the car, preferably the rear. The bar shall be 1 1/2" minimum clear from the wall and 32" (+/-) above the floor. NOTE: Until the office of the State Architect issues specifications for elevator handrails, this
- Building Department will accept handrails of a size which conforms to that specified for restrooms or stairs or ramps only.
- 41. A visual and audible signal shall be provided at each hoistway indicating the car answering the call and the direction of travel. Visual signals shall be 2 1/2" x 2 1/2" minimum. Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal annunciations that say up or down. The center line of these signalling fixtures shall be 72" from the lobby floor. (ANSI-2009 407.2.2).
- 42. Elevator landing jambs shall have the number of the floor for which the jamb is located designated by a 2" minimum Arabic numeral and a raised braille symbol at a height of 5'-0" above the floor and both sides of the door. Raised braille symbol shall be directly to the left of the Arabic symbol and shall be on a contrasting background. (ANSI-2009 407.2.3).
- 43. Drinking fountains shall have a clear floor space of 30" x 48" for a forward approach. The spout outlets of wheelchair accessible drinking fountains shall be 36 inches maximum. Spout outlets of drinking fountains for standing persons shall be 38 inches minimum to 43 inches maximum. The spout shall be located 15 inches minimum from the vertical support and 5 inches maximum for the front edge of the drinking fountain, including bumpers.
- 44. Drinking fountains in a circulation path shall not protrude more than 4" maximum horizontally into the circulation path.
- Kitchen and kitchenettes shall have at least one section 30 inches minimum in length with a maximum height of 34 inches. A clear floor space positioned for forward approach of 39 inches x 48 inches shall be provided and proper knee and toe clearance (ANSI 2009 306) There shall be a minimum clear aisle of 40 inches. Clear floor spaces for all fixtures and appliances shall be provided per ANSI 2009 1003.12.5.3 - 1003.12.5.6. (ANSI-2009 1003.12)
- ** NOTE: The 2018 NC State Building Code Chapter 11 takes precedence over the notes above. If there are any discrepancies between these drawings and the Code, contact the Architect prior to installation for clarification.

Door Clearances

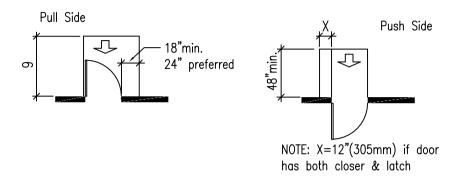


and Folding Doors and Folding Doors

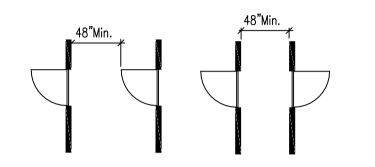


NOTE: All alcoves shall comply with the clearances for front approaches

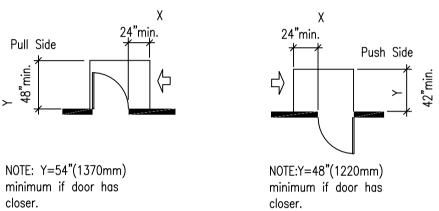
and Folding Doors



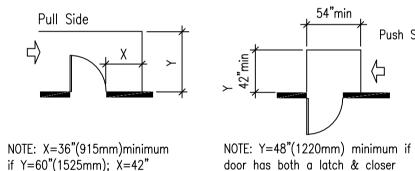
(D) Front Approaches—Swinging Doors



(E) Two Hinged Doors in Series

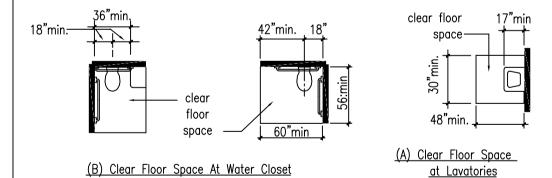


(F) Latch Side Approach — Swinging Doors NOTE: All doors in alcoves shall comply with the clearances for front approaches.

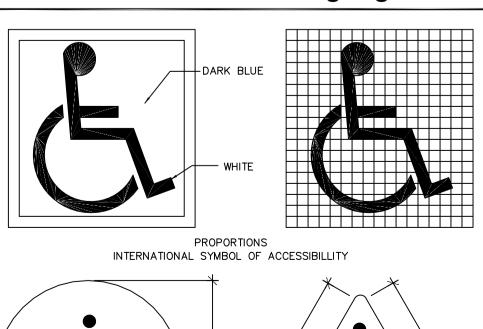


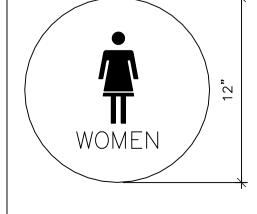
(1065 mm)minimum if Y=54" (1370mm) (G) Hinge Side Approaches—Swinging Doors

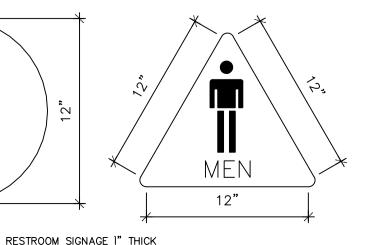
Toilet Stalls - Plans



Restroom Signage

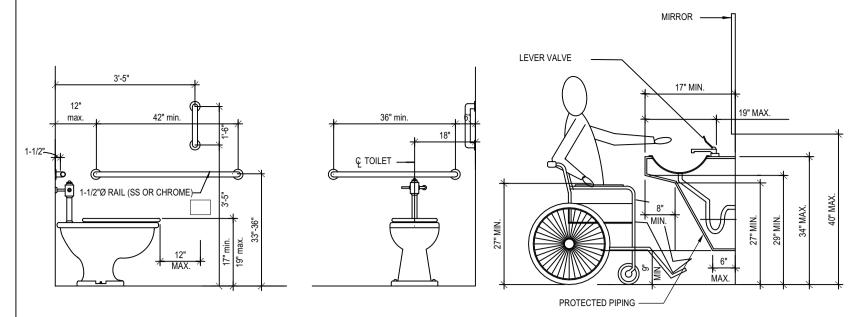






TEXT & GRAPHIC TO BE CONTRASTING COLOR TO BLUE BACKGROUND

Restroom Details



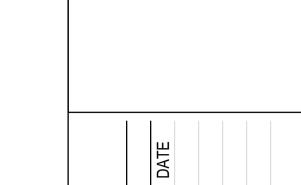
General Notes

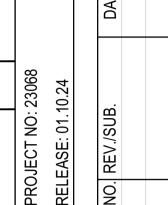
- THESE GENERAL NOTES SHALL APPLY TO ALL WORK AND ALL DRAWINGS IN THIS SET AND SHALL EXTEND TO ANY CHANGES, EXTRAS, OR ADDITIONS AGREED TO DURING THE COURSE OF THE WORK.
- 2. DURING BIDDING OR PLACING THE CONTRACTOR MAKE KNOWN TO ARCHITECT ANY LIMITATIONS. EXCLUSIONS, OR MODIFICATIONS TO THE PROJECT DURING THE BIDDING PHASE OF THE PROJECT. UNLESS NOTED THEY WILL BE PRESUMED INCLUDED.
- 3. ALL CONTRACTORS TO BE INVOLVED IN THIS WORK SHALL CARRY PROPERTY DAMAGE AND PUBLIC LIABILITY INSURANCE AS REQUIRED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION AND COMPLY WITH STATUTORY REQUIREMENTS FOR DISABILITY AND WORKMEN'S COMPENSATION. THEY WILL COMPLY WITH ALL RULES AND REGULATIONS DICTATED BY THE OWNER AND THE CONDITIONS OF THE JOB. INSURANCE SHALL PROTECT THE OWNER AND ANY OTHER GROUP TO BE NAMED FROM LIABILITY DUE TO THE CONTRACTOR'S NEGLIGENCE. A PROPERLY EXECUTED CERTIFICATE OF INSURANCE, AIA DOCUMENT G705, SHALL BE SUBMITTED TO THE ARCHTIECT FACILITIES DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 4. DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS, LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.
- 5. THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED. WHERE THE TERM "OR APPROVED EQUAL" IS USED THE ARCHITECT ALONE SHALL DETERMINE THE EQUALITY BASED UPON THE INFORMATION SUBMITTED BY THE CONTRACTOR.
- 6. THE GENERAL CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND VERIFY ALL GOVERNING DIMENSIONS OF THE BUILDING PRIOR TO THE COMMENCEMENT OF WORK. HE SHALL EXAMINE ALL ADJOINING WORK OR AREAS UPON WHICH THE PERFORMANCE OF HIS WORK IS IN ANY WAY DEPENDENT ANY VARIATIONS OR DISCREPANCIES SHALL BE REPORTED WITH ALL DUE EXPEDIENCY TO THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION OF THE WORK IN QUESTION. THE REPRESENTATIVE TO CONTACT IS DAVID LISLE - 910-763-6053
- 7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF DRAWINGS TO ALL TRADES
- 8. ANY INFORMATION REQUIRED BY THE CONTRACTORS THAT IS NOT SHOWN ON DRAWINGS OR OTHER CONTRACT DOCUMENTS SHALL BE REQUESTED BY THE GENERAL CONTRACTOR FROM THE ARCHITECT.
- 9. THE CONTRACTOR SHALL BE ANSWERABLE TO THE ARCHITECT FOR HIS WORK AND SHALL NOT ACCEPT INSTRUCTION WITHOUT VERIFICATION FROM THE ARCHITECT. CONTRACTOR WILL BE LIABLE FOR ANY EXPENSE CAUSED BY THE EXECUTION OF SUCH WORK WITHOUT SUCH VERIFICATION AND FOR THE EXPENSES CAUSED BY ITS REMOVAL OR CORRECTION.
- 10. A REPRESENTATIVE OF THE GENERAL CONTRACTOR AUTHORIZED TO DISCUSS THE WORK AND RECEIVE INSTRUCTIONS SHALL BE AT THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS.
- 11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MISCELLANEOUS STEEL WORK, MOVABLE PARTITION WORK, ALL WOODWORK, DOORS, FRAMES, HARDWARE, FINISHES AND SUCH WORK AS MAY BE SPECIFICALLY REQUESTED IN THE CONTRACT DOCUMENTS TO THE ARCHITECT FOR WRITTEN APPROVAL. SHOP DRAWINGS SHALL SHOW ALL DIMENSIONS AND CONDITIONS AND SHALL BE SUBMITTED IN TRIPLICATE. WHEN THE ARCHITECT REQUIRES THE REVISION AND RESUBMITTAL OF SHOP DRAWINGS, SUCH RESUBMITTAL SHALL OCCUR WITHIN ONE (1) WEEK OF NOTIFICATION OF SUCH REQUIREMENT.
- 12. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXTENT, NATURE, AND SCOPE OF WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND WILL COORDINATE WITH THE ARCHITECT, OR THE ARCHITECT'S REPRESENTATIVE. THE GENERAL CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO EXECUTE ALL WORK AS SHOWN ON THESE DRAWINGS WITH THE EXCEPTION OF THOSE ITEMS NOTED AS SEPARATE CONTRACTS OR "N.I.C." HE SHALL BE RESPONSIBLE FOR COORDINATING THIS WORK WITH THAT OF ALL OTHER TRADES INCLUDING THOSE OPERATING UNDER SEPARATE CONTRACT WITH THE LANDLORD AND/OR MSDW
- 13. ALL WORK SHALL BE PERFORMED BY SKILLED AND QUALIFIED WORKMEN AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES INVOLVED. CARE SHALL BE TAKEN TO ENSURE COMPLIANCE WITH BUILDING REGULATIONS AND/OR GOVERNMENTAL LAWS, STATUTES, OR ORDINANCES CONCERNING THE USE OF UNION LABOR.
- 14. ALL MATERIALS SHALL BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED.
- 15. ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE AND IN PROPER
- 16. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS UNLESS OTHERWISE NOTED. 17. WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF GOVERNMENTAL
- AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL CONSTRUCTION, SAFETY, AND SANITARY LAWS, CODES, STATUTES, AND ORDINANCES. ANY DISCREPANCIES, VARIATIONS, OR OMISSIONS IN THE CONTRACT DOCUMENTS SHALL BE REPORTED PROMPTLY TO THE
- 18. ALL FEES, TAXES, PERMITS, APPLICATIONS, AND CERTIFICATES OF INSPECTION AND THE FILING OF ALL WORK WITH GOVERNMENTAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 19. TIME IS OF THE ESSENCE AND THE GENERAL CONTRACTOR SHALL KEEP SUFFICIENT WORKMEN ON THE JOB SITE AT ALL TIMES TO PERFORM THE WORK IN THE MOST EXPEDITIOUS MANNER. CONSISTENT WITH GOOD WORKMANSHIP, SOUND BUSINESS PRACTICE, AND THE BEST INTERESTS OF THE OWNER.
- 20. SHOULD OWNER REQUIRE WORK TO BE PERFORMED ON PREMIUM TIME ABOVE AND BEYOND THAT IMPLIED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL GIVE WRITTEN NOTICE AND THE CONTRACTOR SHALL COMPLY THEREWITH.
- 21. EACH TRADE WILL BE EXPECTED TO PROCEED IN A FASHION THAT WILL NOT DELAY OR DETAIN THE TRADE
- 22. ALL WORK SHALL BE COMPLETED FOR THE AGREED CONTRACT PRICE WITHOUT RECOURSE TO LABOR STOPPAGES OR REVISIONS OF GOVERNING REGULATIONS, LAWS AND CODES ABOUT WHICH THE CONTRACTOR COULD HAVE REASONABLY BEEN EXPECTED TO HAVE HAD FOREWARNING AND TO HAVE MADE APPROPRIATE CONTINGENCY PLANS PRIOR TO THE SIGNING OF THE CONTRACT.
- 23. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK OR CHANGES FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR SUCH EXTRA COMPENSATION.
- 24. ALL INSTALLED PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL OPERATE AS QUIETLY AND AS FREE OF VIBRATION AS POSSIBLE
- 25. ALL WORK AND MATERIALS SHALL BE GUARANTEED AGAINST DEFECTS IN DESIGN, WORKMANSHIP, AND MATERIALS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE ARCHITECTS APPROVAL FOR FINAL
- 26. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS OPERATIONS CONTRACTOR SHALL CONFINE HIS OPERATIONS FOR REMOVAL TO SUCH METHODS AS MAY BE AGREEABLE TO THE OWNER. PREMISES TO BE SWEPT CLEAN OF RELATED CONSTRUCTION DEBRIS DAILY.

- 27. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHICH SHALL COMPILE A "PUNCH LIST" OF CORRECTIONS AND UNSATISFACTORY AND/OR INCOMPLETE WORK. FINAL PAYMENT WILL BE CONTINGENT ON THE COMPLETION OF THESE ITEMS UNDER THE TERMS OF THE CONTRACT.
- 28. DURING THE COURSE OF CONSTRUCTION, ACTUAL LOCATIONS SHALL BE INDICATED TO SCALE IN CONTRASTING INK ON THE DRAWINGS FOR ALL RUNS OF MECHANICAL AND ELECTRICAL WORK INCLUDING SITE UTILITIES AND CONCEALED DEVIATIONS FROM THE DRAWINGS. UPON COMPLETION OF THE PROJECT, INCLUDING THE PUNCH LIST, THIS INFORMATION SHALL BE TRANSFERRED TO A SET OF PDF DRAWINGS. THIS SET SHALL BE CONSPICUOUSLY MARKED "AS BUILT SET" AND RETURNED TO THE ARCHITECT WITH ONE (1) COPY TO THE OWNER.
- 29. DRAWINGS IN THIS SET AND THE DESIGNS THEREON ARE THE PROPERTY OF LISLE ARCHITECTURE & DESIGN,
- 30. IT IS INTENDED THAT THE GENERAL CONTRACTOR PROVIDE A COMPLETE JOB AND ANY OMISSIONS IN THESE NOTES OR IN THE OUTLINE OF WORK SHALL NOT BE CONSTRUED AS RELIEVING THE GENERAL CONTRACTOR OF SUCH RESPONSIBILITIES AS ARE IMPLIED BY THE SCOPE OF THE WORK EXCEPT FOR ITEMS SPECIFICALLY
- 31. SHOULD ANY PORTION OF THE CONTRACT DOCUMENTS PROVE TO BE, FOR WHATEVER REASONS, UNENFORCEABLE, SUCH UNENFORCEABILITY SHALL NOT EXTEND TO THE REMAINDER OF THE CONTRACT NOR SHALL IT VOID ANY OTHER PROVISION OF THE CONTACT UNLESS IT BE SHOWN THAT THE CONTRACT OR THE PROVISIONS THEREOF ARE DEPENDENT UPON THE UNENFORCEABLE PARTS FOR THEIR MEANING.
- 32. THROUGHOUT THE DURATION OF THE PROJECT THE GENERAL CONTRACTOR SHALL REFRAIN FROM ACTIONS THAT COULD LEAD TO THE FILING OF A CLAIM OF LIEN AGAINST OWNER BY SUBCONTRACTORS OR SUPPLIERS OF LABOR, MATERIALS, SERVICES, OR EQUIPMENT OR ANY OTHER INDIVIDUAL, COMPANY, OR ENTITY SO ENTITLED UNDER GOVERNING LAWS AND REGULATIONS UNLESS HE CAN SHOW REASONABLE AND JUSTIFIABLE CASE. APPROVAL FOR FINAL PAYMENT SHALL BE CONTINGENT UPON THE GENERAL CONTRACTOR'S OBTAINING AND FURNISHING TO THE ARCHITECT SIGNED RELEASES FROM SUCH INDIVIDUALS, COMPANIES, OR ENTITIES.
- 33. THE CONTRACTOR SHALL MAKE KNOWN TO THE ARCHITECT ANY DISCREPANCIES THROUGHOUT THE DRAWINGS PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT MAKE THEM KNOWN, HE SHALL TAKE RESPONSIBILITY AND LIABILITY FOR THE MOST EXPENSIVE OR HIGHEST QUALITY ITEM.

Upfit Notes

- BEFORE COMMENCING WORK THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AREAS THAT HAVE NOT BEEN SATISFACTORILY COMPLETED BY THE LANDLORD AND/OR THE PREVIOUS TENANT TO MEET THE BASE BUILDING REQUIREMENTS (FIREPROOFING, DUCTWORK, CONDITION OF SLAB, CONDITION OF CORE AND DEMISING WALLS, UTILITY HOOKUPS, ELECTRICAL PANELS, ETC.).
- 2. GREAT CARE SHALL BE EXERCISED TO ASSURE THAT THE BUILDING SHALL BE PROTECTED FROM DAMAGE THAT COULD OCCUR BECAUSE OF THIS WORK AND CONTRACTORS SHALL PROVIDE PROTECTION FOR EXISTING AREAS AND NEW WORK AREAS. ANY DAMAGES DUE TO THIS WORK, OR ACCIDENTS SHALL BE REPAIRED, REPLACED, OR PATCHED AT THE DISCRETION OF THE ARCHITECT. THE CONTRACTOR SHALL BEAR FINANCIAL RESPONSIBILITY FOR SUCH DAMAGE AND ANY WORK UNDERTAKEN TO CORRECT IT.
- 3. THE CONTRACTOR SHALL EXERCISE GREAT CARE IN PROTECTING ALL MATERIALS EXISTING ON THE JOB FROM DAMAGE AND SHALL MAINTAIN PROTECTION FOR ALL TRAFFIC AREAS OF THE BUILDING TO BE USED DURING THE EXECUTION OF WORK RELATING TO THIS CONTACT WITH THE UNDERSTANDING THAT THE CONTRACTOR WILL RECTIFY ANY DAMAGE ATTRIBUTABLE TO HIS OPERATIONS.
- 4. IT IS EXPECTED THAT SUFFICIENT LABOR WILL BE PROVIDED SO THAT ACTIVITY FOR ANY GIVEN TRADE WILL NOT BE
- LIMITED TO ONLY ONE PART OF THE TOTAL WORK AREA. 5. EXISTING CONVECTOR/RADIATOR/PERIMETER ENCLOSURES ARE TO BE COVERED DURING THE WORK AND PROPERLY CLEANED AND VACUUMED PRIOR TO REINSTALLATION AND/OR THE COMPLETION OF CONSTRUCTION.
- 6. THE GENERAL CONTRACTOR SHALL NOT PLACE CEILING HVAC REGISTERS OR DIFFUSERS WHEREVER SHELVING, FILES, OR OVER FILE UNITS ARE INDICATED ON THE DRAWINGS.
- 7. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EXIT SIGNS AS REQUIRED BY LOCAL CODES UPON APPROVAL OF SIGN LOCATIONS AND STYLES BY THE ARCHITECT AND BUILDING OFFICIALS HAVING JURISDICTION.









Rd

S Φ

hit sig

U O

A۲



SHEET TITLE - NUMBER

Pioted: 1.12.2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022



		DATE	01.25.24		
PROJECT NO: 23068	RELEASE: 01.10.24	NO. REV./SUB.	PERMIT COMM.		
PR(REL	Ŋ.	$\langle \overline{\cdot} $		

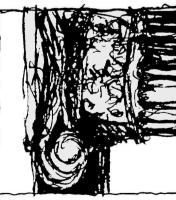


ranch Rd.

AUGMENT SPA 2457 Gum Bran Suite 1700 Jacksonville, NC

Lisle Architecture
& Design, Inc.
614 Market Street
Wilmington, NC 28401
(910) 763.6053

614 Market Stre Wilmington, NC (910) 763.6053 Raleigh, NC (9



SHEET TITLE - NUMBER

Floor Plan

Δ11

Wall Type Schedule

3-5/8" 20 GA Mtl. Studs up to Underside of Exst'g Structure w/ ⁵/₈" Gyp. Bd. Each Side (Green Board in Wet Areas) And Finish as Scheduled

3-5/8" 20 GA Mtl. Studs up to 10' AFF w/ ⁵/₈" Gyp. Bd. Each Side (Green Board in Wet Areas) And Finish as Scheduled

3-5/8" 20 GA Mtl. Studs up to 10' AFF w/ ⁵/₈" Cementitious Board on Open Treatment Side and ⁵/₈" Gyp. Bd. Opp Side And Finish as Scheduled

4 3-5/8" 20 GA Mtl. Studs up to Underside of Exst'g Structure w/ ⁵/₈" Cementitious Board on Open Treatment Side and ⁵/₈" Gyp. Bd. Opp Side And Finish as Scheduled

3-5/8" 20 GA Mtl. Studs up to 6" Above Lay-In Ceiling w/ ⁵/₈" Gyp. Bd. Each Side (Green Board in Wet Areas) And Finish as Scheduled

6 Existing Tenant Demising Wall - Provide ⁵/₈" Cementitious Board Behind New Tile

7 6" 20 GA Mtl. Studs up to 10' AFF w/ ⁵/₈" Cementitious Board And Finish as Scheduled

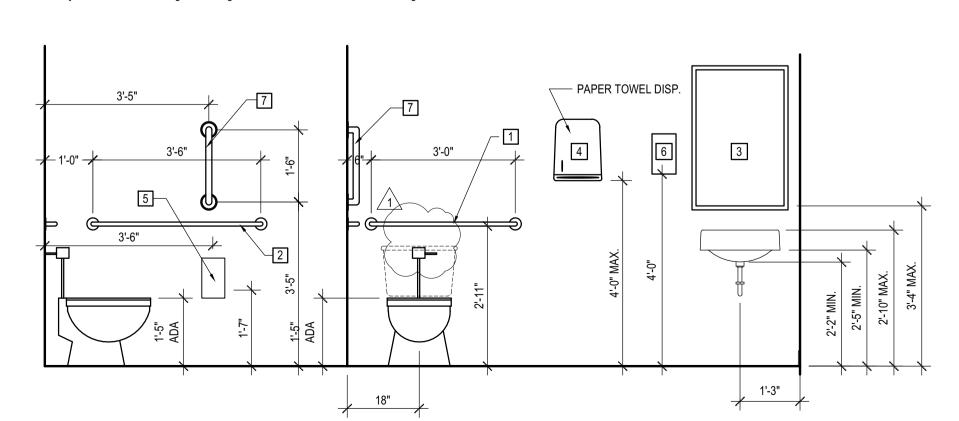
8 Furr out Exst'g Demising Wall with 3-5/8" 20 GA Mtl. Studs up to Underside of Exst'g Structure w/ ⁵/₈" Gyp. Bd. Each Side And Finish as Scheduled

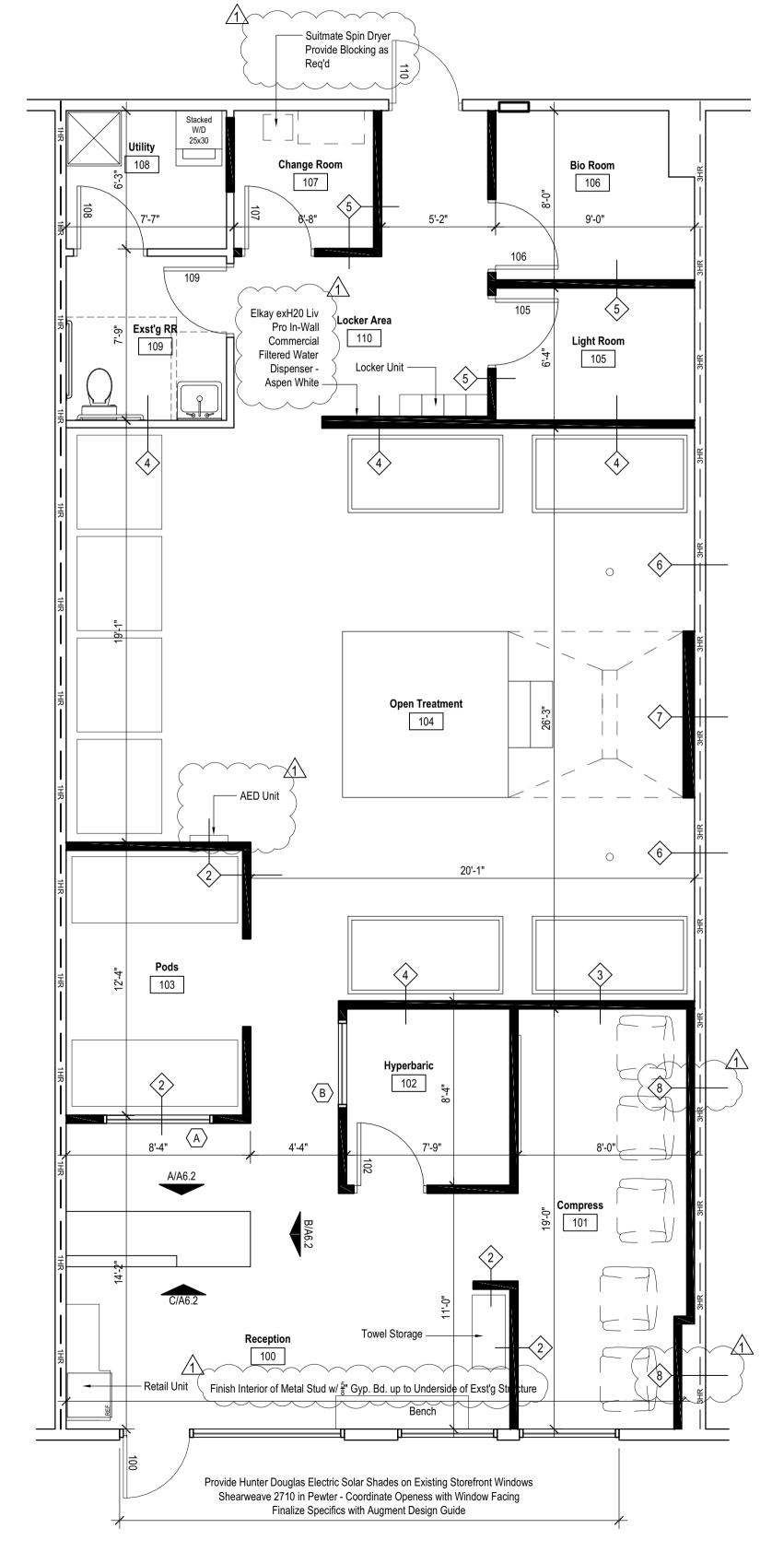
GENERAL NOTES:

- Towel Storage/ Retail Unit/ Lockers by California Closets. Coordinate with Owner/ Augment Design Guidelines
 Coordinate Bench with Augment Design
- 3. Refer to Augment Design Guidelines for all
- Furniture Selections
 4. Refer to Augment Design Guidelines for Window/ Wall Graphics
- 5. Refer to Augment Design Guidelines for all Equipment Specifications

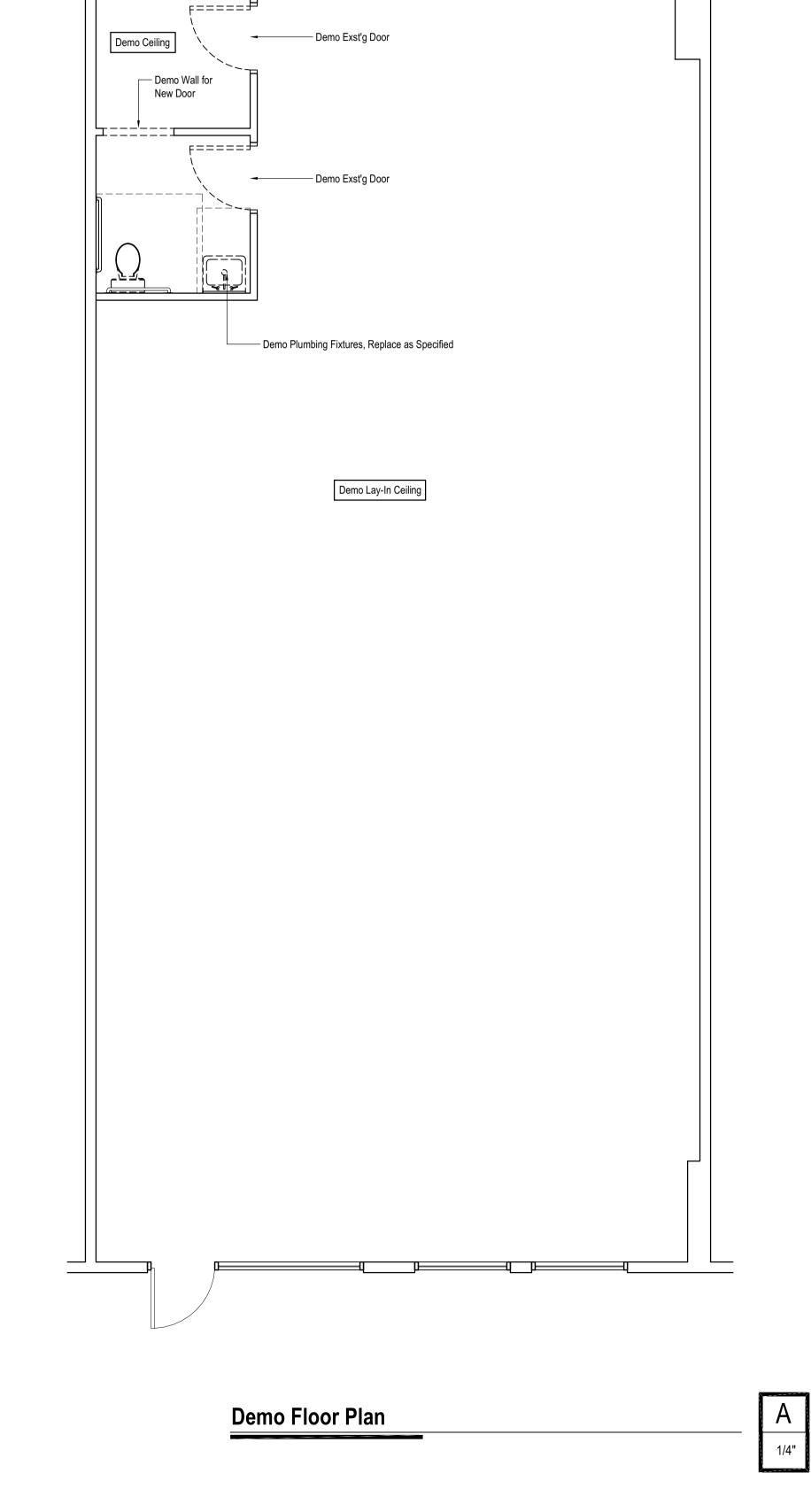
TOILET ACCESSORIES SCHEDULE					
ITEM	MANUFACTURER				
1 36" GRAB BAR	Bradley Model 812-36				
2 42" GRAB BAR	Bradley Model 812-42				
3 FRAMED MIRROR	Refer to Augment Design Guidelines for Mirror				
4 HAND DRYER	Dyson Airblade V (HU02-N-LV), Nickel				
5 TOILET PAPER DISPENSER	Cintas Signature Series - White				
6 SOAP DISPENSER	Bradley Model 6A01-11				
7 18" GRAB BAR	Bradley Model 812-18				
8 HAND TOWEL DISPENSER	Cintas Signature Series - White				
9 TRASH RECEPTACLE	Cintas Signature Series - White				
10 AIR FRESHENER DISPENSER	Cintas Signature Series - White				

Note:
Substitutions Acceptable per Owner and Architects Approval.
Verify All Selections with Augment Design Guidelines/ Owner Prior to Purchasing

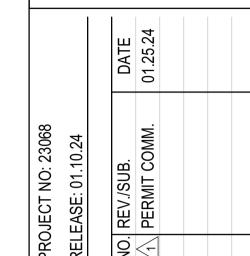














ROOM NAMES

— SHOWER REQUEST

RULES SIGNAGE

ROOM NAME

FRANCHISE — SIGNAGE

Wall Finish Plan

SHOWER REQUEST SIGN

ROOM NAME

MOSS WALL; DARK GREEN POLE MOSS; VENDOR:

GREEN OASI\$

FIELD VERIFY
DIMS (APPROX:
3'-0"Hx12'-0"W)

SAN ANTONIO, TX.



.PA Sranch Rd. AUGMENT SP, 2457 Gum Brc Suite 1700 Jacksonville, I

Lisle Architectur & Design, Inc.

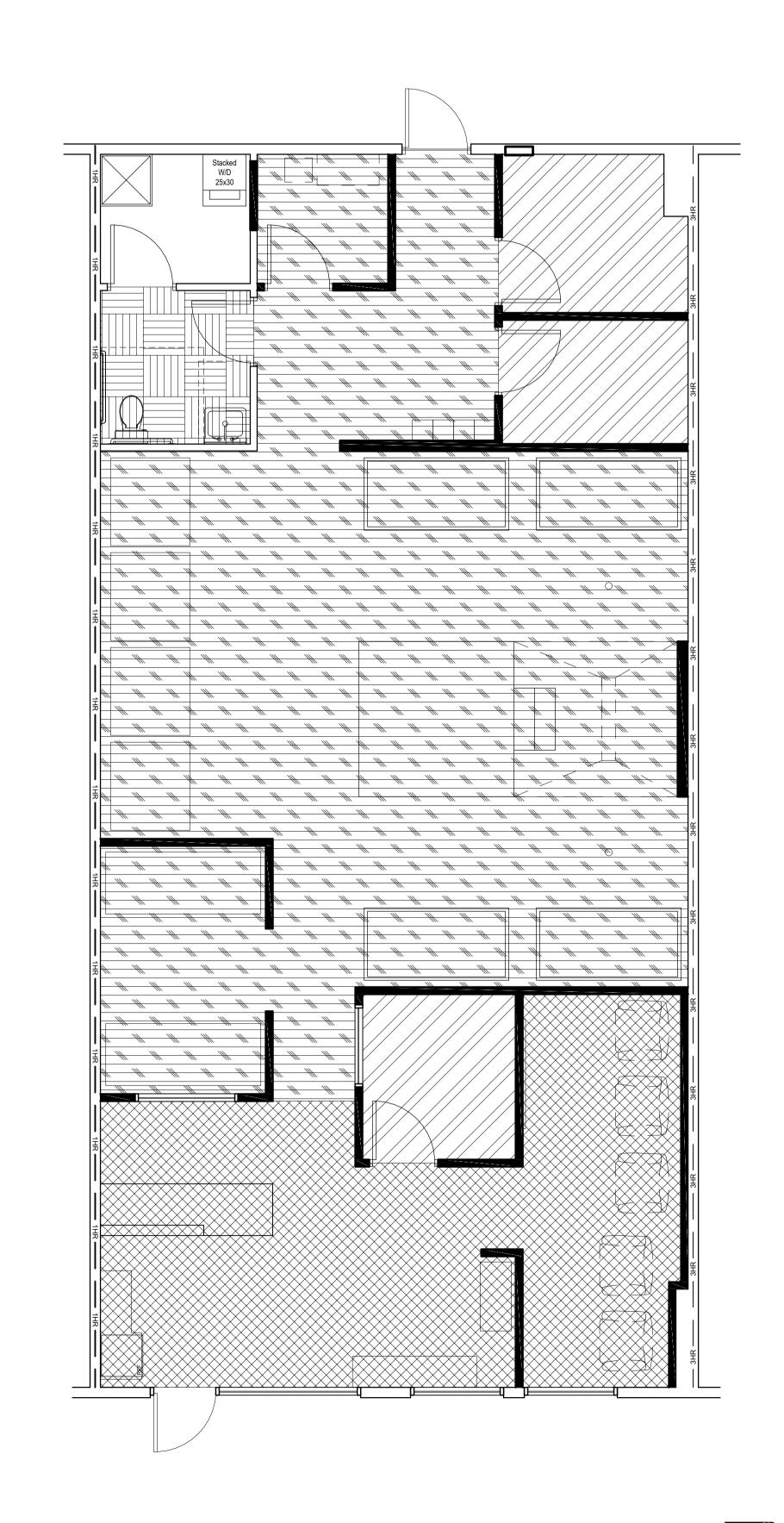


SHEET TITLE - NUMBER

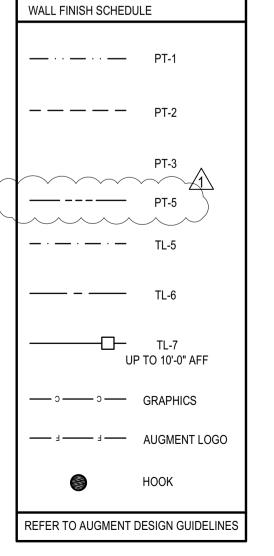
Finish Plans

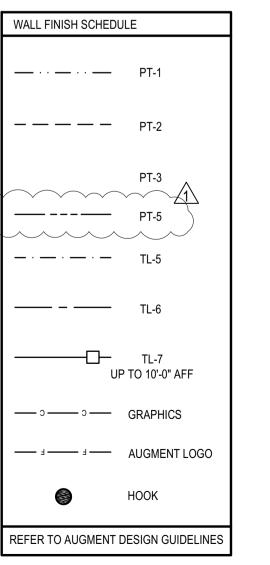


A



Floor Finish Plan





B 1/4"

Plotted: 1.31.2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022

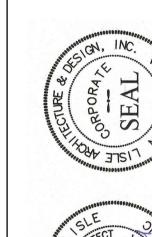
FLOOR FINISH SCHEDULE

TL-1

CONC

REFER TO AUGMENT DESIGN GUIDELINES

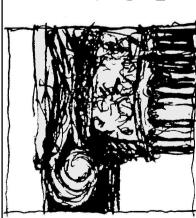






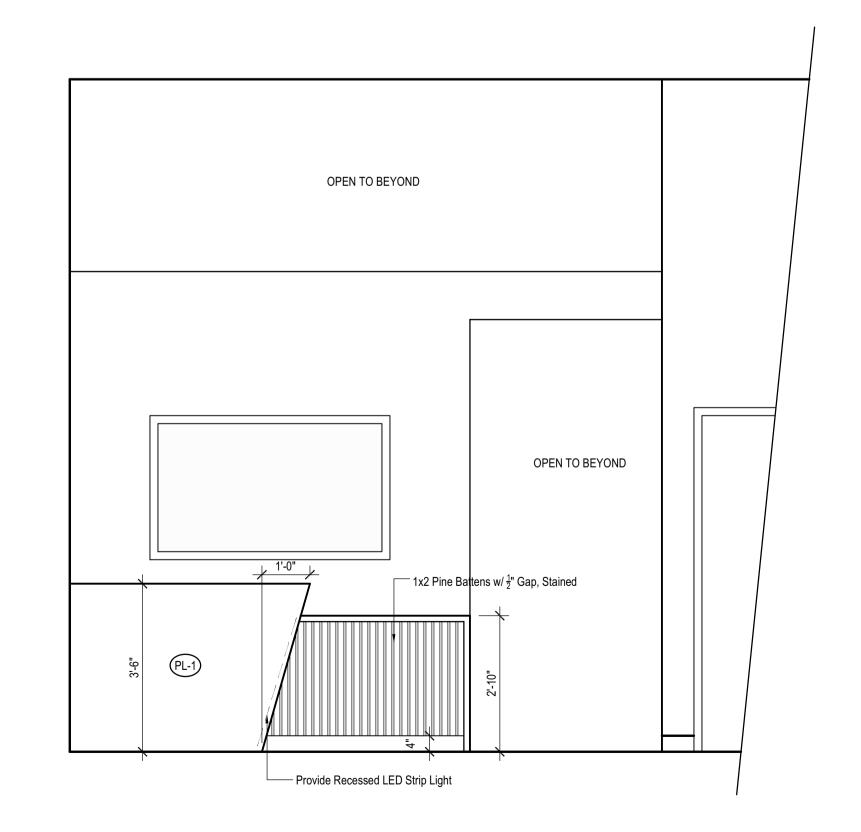
AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

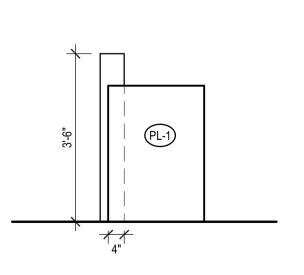
Lisle Architecture & Design, Inc.

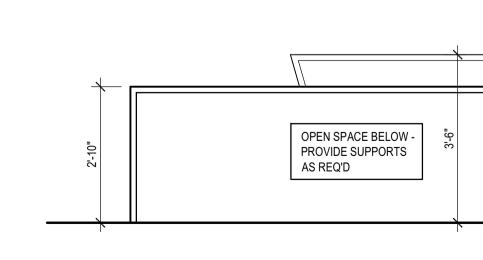


SHEET TITLE - NUMBER Interior

Elevation







Front Desk Elevation

1/4"

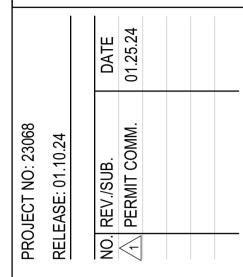
Front Desk Elevation

B 1/4"

Front Desk Elevation

A 1/4"





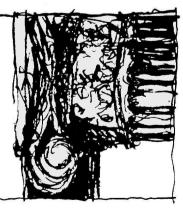




AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Lisle Architecture & Design, Inc.

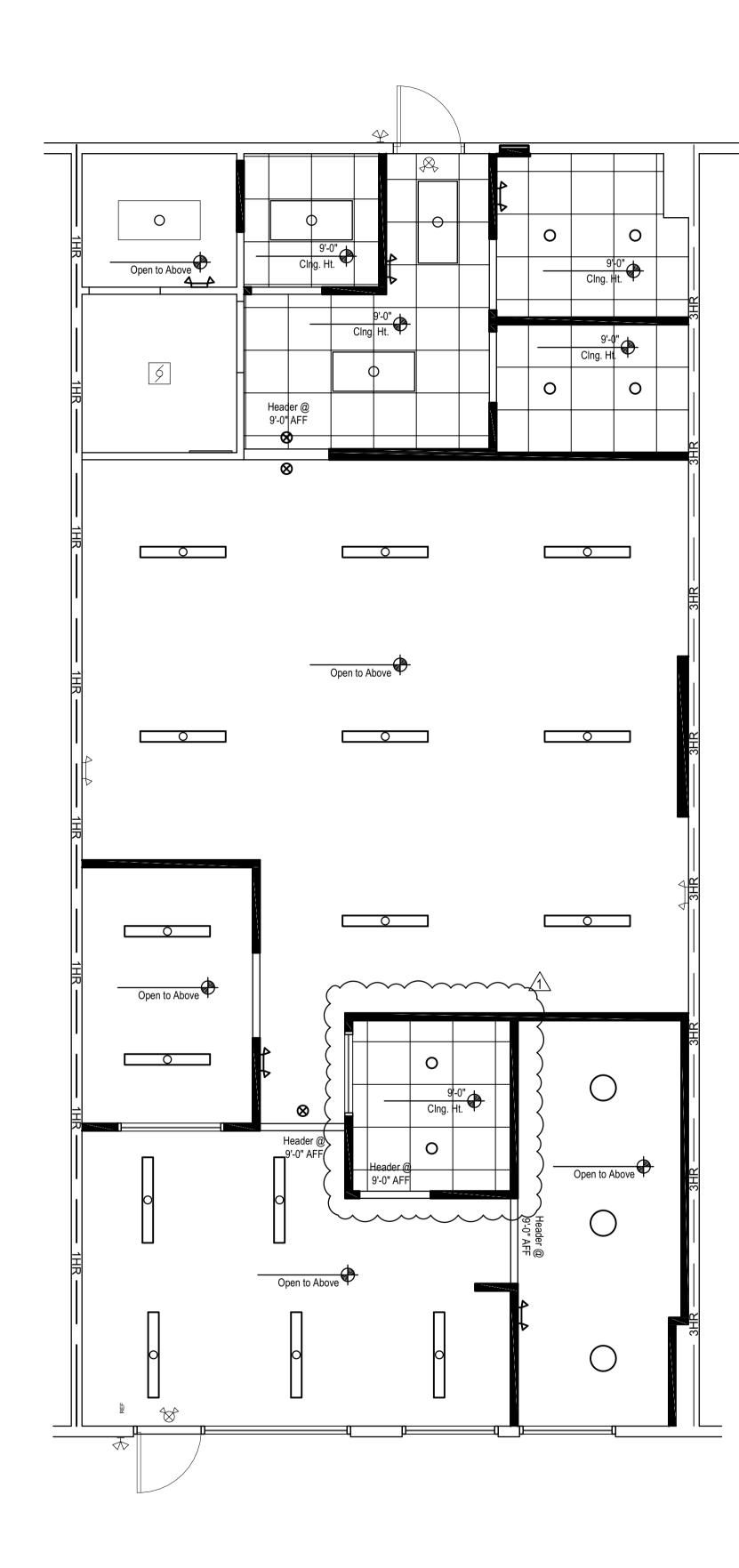
& Desi & Desi & 14 Market Street Wilmington, NC 2840 (910) 763.6053

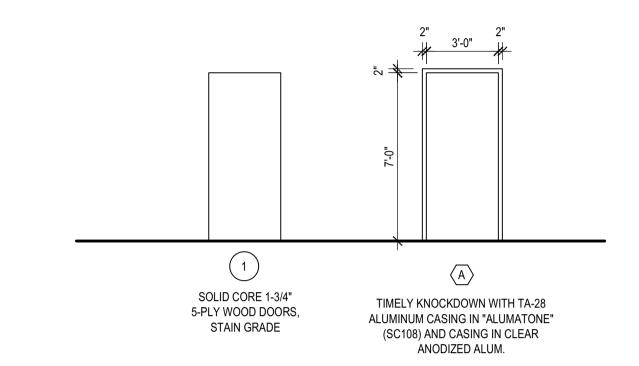


SHEET TITLE - NUMBER

Reflected Ceiling Plan

A7.





Door Elevations E

					FINISH	SCHEDULE				
			FLOOR		T w	/ALL		CEILING		
NO.	NAME	MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	REMARKS
	•			•						
100	RECEPTION	TL-4		TL-4	GYP. BD.	PT-3	EXPOSED		PT-4	
101	COMPRESS	TL-4		TL-4	GYP. BD.	PT-1	EXPOSED		PT-4	
102	HYPERBARIC	TL-2		RB-1	GYP. BD.	PT-3	ACT-1 9'-0"		9'-0"	
103	PODS	TL-3		RB-1	GYP. BD. PT-1		EXPOSED PT-4			
104	OPEN TREATMENT	TL-3		CB-1		TL-7/PT-1/PT-3	EXPOSED		PT-4	
105	LIGHT ROOM	TL-2		RB-1	GYP. BD.	PT-3	ACT-1		9'-0"	
106	BIO ROOM	TL-2		RB-1	GYP. BD.	PT-3	ACT-1		9'-0"	
107	CHANGE ROOM	TL-3		RB-1	GYP. BD.	PT-2/PT-5	ACT-1		9'-0"	PT-5 BEHIND SUIT DRYER
108	UTILITY	CONC.			GYP. BD.	PT-5	EXPOSED			PT-5 WITHIN 2' OF MOP SINK
109	EXISTING RESTROOM	TL-1		WALL		TL-5/TL-6	GYP. BD.		EXST'G	
110	LOCKER AREA	TL-3		RB-1	GYP. BD.	PT-2	ACT-1		9'-0"	
					N	OTES				

1	FINISHES SHALL BE LEVEL 4 SMOOTH AT ALL OCCUPIED ROOMS
Τ.	THE STATE OF LEVEL 4 STATES THAT THE SECOND RESIDENCE OF THE PROPERTY OF THE SECOND PROPERT

^{2.} WALLS TO RECEIVE CONTINUIOUS LAYER OF WALLPAPER OR VINYL GRAPHICS SHALL BE LEVEL 5 FINISH

ADJACENT TO THE WALL

Window Elevations (

 $\langle \mathsf{B} \rangle$

BLACK ANODIZED

ALUMINUM STOREFRONT
- INTERIOR WINDOW

 $\langle A \rangle$

BLACK ANODIZED

ALUMINUM STOREFRONT

- INTERIOR WINDOW

Finish Schedule



DOOR SCHEDULE

Α

NOTES

5000 450

409

608

8616

LOCATION

AS NOTED

AS NOTED

AS NOTED

AS NOTED

AS NOTED

RM3301 BTB

Door Schedule

FRAME ELEV

HARDWARE GROUP II

3 EA. HINGES

1 EA. HANDLES

3 EA. MUTES

1 EA. CLOSER

1 EA. WALL STOP

HEAD

JAMB

BOMMER FINISH: T.B.D.

ROCKWOOD FINISH: BLACK ROCKWOOD FINISH: T.B.D.

ROCKWOOD FINISH: GREY

DORMA FINISH: T.B.D.

MATERIAL

EXISTING DOOR TO REMAIN

HM

HM

HM

HM

HM

EXISTING DOOR TO REMAIN

ELEV

1. LOCKS AND LATCHES SHALL COMPLY WITH SECTION 1008 OF 2018 NCBC AND ICC/ANSI A117.1 FOR GRASPABILITY REQUIREMENTS

3. DOOR HANDLES, LOCKS, PULLS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MINIMUM AND 48" MAXIMUM ABOVE FINISH FLOOR

SIZE (WxH)

3'-0" X 7'-0"

5000 450

409

608

GLASS SCHEDULE & LEGEND

8616

. ALL INTERIOR GLASS TO BE 1/4" CLEAR, WHERE APPLICABLE.

RM3301 BTB

PRIVACY LOCK

100 102

105

106

107

108

109

110

HARDWARE GROUPS

HARDWARE GROUP I

3 EA. HINGES

1 EA. HANDLES

1 EA. BOLT LOCK

1 EA. WALL STOP

3 EA. MUTES

1 EA. CLOSER

T = TEMPERED GLASS

GLAZING

Ν

Ν

Ν

Ν

Ν

2. CONTRACTOR SHALL COORDINATE FINAL KEYING WITH TENANT

5. SEE MEHCANICAL DRAWINGS FOR DOOR UNDERCUTS (IF ANY)

Ν

4. DOOR OPENING FORCE SHALL NOTE EXCEED 5 POUNDS FOR INTERIOR DOORS

B. USE TEMPERED GLASS IN ALL DOORS AND WINDOWS LOCATED WITHIN 24 INCHES OF A DOOR.

I. USE TEMPERED GLASS WHERE EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.

5. ALL DOOR AND WINDOW ASSEMBLIES LOCATED IN 1 HR. RATED WALL SHALL BE 45 MIN. RATED ASSEMBLIES

6. ALL DOOR AND WINDOW ASSEMBLIES LOCATED IN 2 HR. RATED WALL SHALL BE 1 1/2 HR. RATED ASSEMBLIES

BOMMER FINISH: T.B.D.

ROCKWOOD FINISH: BLACK

ROCKWOOD FINISH: T.B.D.

ROCKWOOD FINISH: GREY

DORMA FINISH: T.B.D.

2. ALL EXTERIOR GLASS TO BE 1" INSULATED CLEAR GLASS, LOW E, U = 0.31, COEFFICIENT = 0.59. UNLESS OTHERWISE NOTED

FINISH: T.B.D.

DOOR

SCWD

SCWD

SCWD

SCWD

SCWD

SCWD

TL-1	BATHROOMS	LIVINGSTONE	PORCELAIN	NERO 24X24				
TL-2	AS NOTED	ECORE	EBB MOTIVATE	320 ONYX				
TL-3	AS NOTED	ECORE	HYDROGRIP	DEEP LAKE				
TL-4	AS NOTED	WALDEN STONE						
			GROUT					
GR-1	WITH TL-5	HOME DEPOT TILE BAS	E GROUT	WALNUT #541				
GR-2	WITH TL-6	HOME DEPOT TILE BAS	E GROUT	ARCTIC WHITE #640				
GR-3	WITH TL-7	HOME DEPOT TILE BAS	E GROUT	DOVE GREY #370				
GR-4	WITH TL-1	HOME DEPOT TILE BAS	E GROUT	CHARCOAL #60				
GR-5	WITH TL-4	HOME DEPOT TILE BAS	E GROUT	CAPE GREY #546				
			CEILINGS					
GYP. BD	AS NOTED		5/8" ANTI-SAG GYPSU	UM BOARD				
ACT-1	AS NOTED	ARMSTRONG	24X24 DUNE	WHITE				
			WALLS					
TL-5	BATHROOM	SENSORIAL	CERAMIC TILE 13X39	TARTAN MATTE	STACKED BOND			
TL-6	BATHROOM	CRISTALO	AC CERAMIC		STACKED BOND			
TL-7	WET ROOM	IONIC STEEL	18X36 PORCELAIN		STACKED BOND			
			CASEWORK					
PL-1	COUNTERTOPS	WILSONART		BLACK 1595-60				
WD-1	CASEWORK ACCENT			1x4 PINE BATTENS W/ CL	EAR COAT STAIN			
	,	•	NOTES	· · · · · · · · · · · · · · · · · · ·				
		ER TO AUGMENT DESIGN		ITIONAL INFORMATION				

MATERIAL SCHEDULE

4" RUBBER BASE

SANITARY BASE

FLOORING

PT-4 CEYLINGS SHERWHI WILLYAMS DRY FOG BLACK

MINK SW 6004

BLACK

DEEP LAKE

PEWTER CAST SW 7673

SNOWBOUND SW 7004

WAILBASE

PEWTER CAST SW 7673 MUST MEET 1210.2.2

MANUFACTURER MATERIAL

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

JOHNSONITE

ECORE

PAINT

SHERWIN WILLIAMS EPOXY PAINT

HARDWARE | FIRE RATING | REMARK

ı

Ш

- 1

- 1

ı

Material Schedule



		DATE	01.25.24		
PROJECT NO: 23068	RELEASE: 01.10.24	NO. REV./SUB.	PERMIT COMM.		

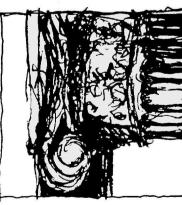


AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Lisle Architecture

& Design, Inc.

614 Market St Wilmington, N (910) 763.605. Raleigh, NC



SHEET TITLE - NUMBER

Schedules

A8.1

^{3.} STORAGE CLOSETS AND MECHANICAL/ ELECTRICAL CLOSETS MAY BE LEVEL 3, PRIMED AND PAINTED TO MATCH ADJACENT ROOM

^{4.} AT WET WALL LOCATIONS WITH TILE, PROVIDE CEMENTITIOUS TILE BACKER BOARD. WET LOCATION "GREEN BOARD" IS ACCEPTABLE AT WALLS THAT DO NOT HAVE FIXTURES ON OR

PLUMBING SPECIFICATIONS:

GENERAL: CODES, REGULATIONS AND STANDARD INSTALLATIONS ARE TO COMPLY WITH THE LATEST EDITION OF THE STATE BUILDING AND PLUMBING CODES AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE CODE AND THE DRAWINGS AND SPECIFICATIONS DR BETWEEN VARIOUS CODES. THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT. 1.2. FEES AND PERMITS: PROVIDE ALL LICENSES, FEES, PERMITS, HEALTH DEPARTMENT FEES, INSURANCE, ETC., REQUIRED FOR EXECUTION OF THIS WORK.

1.3. CONTRACT DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY DIMENSIONED. THE PLUMBING CONTRACTOR SHALL FOLLOW THE DRAWING AS CLOSELY AS POSSIBLE: HOWEVER, NECESSARY ADJUSTMENTS SHALL BE MADE AS REQUIRED TO CONFORM TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS AND THE INTENT OF THE DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. THE DRAWINGS SHALL NOT BE SCALED. SECURE DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIXTURE 1.4. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL THE FEES NECESSARY TO MAKE THE PLUMBING SYSTEM OPERABLE AND READY FOR USE BY

THE OWNER. 1.5. GUARANTEE: ALL NEW EQUIPMENT, NEW MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. 1.6. PLUMBING CONTRACTORS SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM JOB SITE. PLUMBING CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.

1.8. THE PLUMBING DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE DESIGN FOR ROOF GUTTER SYSTEMS OR ROOF DRAIN SYSTEMS. 1.9. ALL PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE STATE BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910 799-5204. ALL REQUIRED INSPECTIONS FOR THESE DESIGNS SHALL BE PERFORMED BY APPROVED INSPECTORS AND AGENCIES PROVIDED BY THE OWNER OR OWNER'S AGENT.

1.7. IN CASE OF ANY CONFLICT BETWEEN INFORMATION FOUND IN THE PLANS, OR IN THE SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL TAKE PRECEDENT.

ALL ROOF MOUNTED MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE STATE BUILDING CODE 1.10 REQUIREMENTS FOR WIND DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISMIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT AS REQUIRED BY THE BUILDING CODE. 1. 11. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.

2. 1. WORK SHALL INCLUDE BUT IS NOT LIMITED TO:

- 2.1.1. PROVIDE FIXTURES AND INSTALL AND CONNECT WASTE AND WATER PIPE AS SHOWN ON DRAWINGS. ROUTE WASTE AND WATER TO TIE INTO EXISTING WASTE AND WATER LINES AS SHOWN ON DRAWINGS.
- CHLORINATE WATER SYSTEM. COORDINATE WITH LOCAL AUTHORITIES ON PURCHASE AND INSTALLATION OF BACKFLOW PREVENTERS.
- 2.1.5. PERFORM REQUIRED DEMOLITION AS INDICATED ON DRAWINGS AND/OR IN THESE SPECIFICATIONS.

MATERIALS: SITE WATER PIPING SHALL BE SCH 40 CPVC PRESSURE PIPE WITH SOLVENT WELD JOINTS. USE INDUSTRIAL GRADE GLUE ONLY. ALL NSF APPROVED PIPING FROM TAP TO METER AND PIPING INSIDE ROAD RIGHT OF WAYS SHALL BE AS PER THE REQUIREMENTS OF THE LOCAL WATER AUTHORITY AND THE DEPARTMENT OF TRANSPORTATION. 3.1.1. WATER SERVICE PIPE OR TUBING, INSTALLED UNDERGROUND AND OUTSIDE OF STRUCTURE, SHALL HAVE A MINIMUM WORKING PRESSURE OF 160 PSI AT 73.4 DEG. F. WHERE THE WATER MAIN OR INCOMING WATER SOURCE PRESSURE EXCEEDS 160 PSI. PIPING MATERIAL SHALL HAVE A WORKING PRESSURE NOT LESS THAN THE HIGHEST AVAILABLE

3. 2. HANGERS: 3. 2. 1. SPACING FOR COPPER PIPE SHALL BE AS FOLLOWS:

3. 2. 1. 1. UP TO 1": 6' –0" O. C.

INCOMING WATER PRESSURE.

- 3. 2. 1. 2. 1-1/4" & 1-1/2": 8'-0" 0. C. 3. 2. 1. 3. 3" & LARGER: 10' -0" 0 C
- 3. 2. 2. SPACING FOR CARBON STEEL AND CAST IRON PIPING SHALL BE AS FOLLOWS:
- 3. 2. 2. 1. UP TO 1": 7' −0" 0. C. 10' -0" O. C. 3. 2. 2. 2. 1-1/2" & 2":
- 3. 2. 2. 3. 2-1/2" TO 4": 12' -0" 0. C.
- 3. 2. 3. SPACING FOR PVC PIPE SHALL BE AS FOLLOWS:
- 3. 2. 3. 1. UP TO 1-1/2": 2'-0" O. C. 3' -0" 0. C. 3. 2. 3. 2. 2":
- 3. 2. 3. 3. 2-1/2" TO 4": 5'-0" O. C.
- 3. 2. 4. SPACING FOR CPVC PIPE SHALL BE AS FOLLOWS: 3. 2. 4. 1. UP TO 1": 3' -0" 0. C.
- 3. 2. 4. 2. 1-1/4" TO 2": 4'-0" O. C.
- 3. 2. 5. HANGERS FOR HORIZONTAL PIPING SHALL BE THE CLEVIS TYPE. 3. 2. 6. HANGERS FOR BARE COPPER PIPING SHALL BE COPPER PLATED.
- 3.2.7. HANGERS FOR INSULATED PIPING SHALL EXTEND AROUND THE INSULATION. PROVIDE 16 GAUGE GALVANIZED STEEL INSULATION PROTECTION SADDLES 12" LONG AT EACH HANGER ON ALL INSULATED LINES AND HARD INSULATION INSERTS AT SADDLES.
- 3.2.8. A HANGER SHALL BE FASTENED BY MEANS OF THREADED RODS TO BUILDING STRUCTURE. ALL HANGERS SHALL PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD.
- 3.2.9. A HANGER SHALL BE PROVIDED WITHIN ONE FOOT OF EACH BEND IN HORIZONTAL PIPING. 3. 2. 10. SUPPORT MATERIAL SHALL BE PROPERLY CHOSEN TO AVOID ATMOSPHERIC CORROSION AND TO AVOID GALVANIC CORROSION DUE TO CONTACT OF SUPPORT AND ADJACENT MATERIALS.

3. 3. HOT AND COLD WATER PIPES BEGINNING 5' FROM BUILDING WALL:

- 3. 3. 1. PIPE SHALL BE TYPE L COPPER TUBING ABOVE GRADE AND TYPE K BELOW GRADE. FITTINGS SHALL BE MADE USING SOLDER AS PER THE STATE PLUMBING CODE FOR POTABLE WATER.
- 3. 4. HOT AND COLD WATER PIPES INSIDE OF BUILDING:
- 3.4.1. PIPE AND PIPE FITTINGS SHALL BE MADE OF MATERIALS AND JOINED TOGETHER AS PER THE STATE PLUMBING CODE FOR POTABLE WATER 3.4.2. PIPE MATERIAL SHALL BE TYPE L COPPER TUBING ABOVE GRADE AND TYPE K BELOW GRADE.PIPE SIZING AS BASED ON THIS MATERIAL
- 3 4 3 ACCEPTABLE ALTERNATE
- 3.4.3.1. PEX OR CPVC PIPING IS AN ACCEPTABLE ALTERNATE FOR ALL WATER PIPING. IF THESE MATERIALS ARE USED, CONTRACTOR IS RESPONSIBLE FOR RE-SIZING THE PIPE FOR THE MATERIAL CHOSEN.
- 3.4.3.2. PIPE AND FITTINGS SHALL BE SPECIFICALLY DESIGNED FOR INTENDED SERVICE.
- 3.4.3.3. FITTINGS SHALL BE MADE AS PER PIPE MANUFACTURER'S RECOMMENDATIONS AND AS PER THE STATE PLUMBING CODE FOR POTABLE WATER. 3. 5. VENT AND WASTE PIPE:
- 3.5.1. WASTE AND VENT PIPE SHALL BE SCH 40 PVC-DWV AS PER ASTM 2665 D WITH SOLVENT WELD JOINTS EXCEPT AS NOTED BELOW. 3. 5. 2. PVC SHALL NOT BE USED IN A RETURN AIR PLENUM. FOR RETURN AIR PLENUMS CAST IRON SHALL BE USED. TRANSITION FROM PVC TO CAST IRON SHALL BE MADE WITH CODE APPROVED TRANSITION FITTINGS DESIGNED EXPRESSLY FOR THAT PURPOSE.
- 3. 5. 3. ALL FITTINGS SHALL BE SANITARY DRAINAGE PATTERN.
- 3.5.4. ALL WASTE AND SOIL STACKS SHALL BE PACKED WITH FIBERGLASS INSULATION FOR NOISE SUPPRESSION
- 3. 6. 1. WATER GATE VALVES SHALL BE OF BRASS CONSTRUCTION WITH SOLDER JOINT FITTINGS. 3. 6. 2. ALL VALVES SHALL BE AS PER PLUMBING CODE.
- 3. 7. TEMPERED WATER CONTROL: 3.7.1. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM TEMPERATURE AS SPECIFIED ON THE DRAWINGS. 3.7.2. A THERMOSTAT CONTROL FOR A WATER HEATER SHALL NOT SERVE AS THE TEMPERATURE LIMITING DEVICE FOR MAXIMUM ALLOWABLE HOT OR TEMPERED WATER DELIVERY AT
- FIXTURES. 3.8.1. WATER PIPING IN UNCONDITIONED UTILITY ROOM, ATTIC SPACE OR INSTALLED OUTSIDE BUILDING INSULATION SHALL BE INSULATED WITH 2" THICK FIBERGLASS WITH VAPOR
- BARRIER JACKET. UTILITY ROOM INSULATION SHALL ALSO HAVE A PVC JACKET, STAPLED AND TAPED. 3. 8. 2. EXPOSED HOT AND COLD WATER LINES AND WASTE LINES UNDER HANDICAP LAVATORIES AND SINKS SHALL BE INSULATED WITH FULLY MOLDED, TRUEBRO, OR HANDI-LAV GUARD
- INSULATION KIT. 3. 8. 3. UNDERGROUND LINES BELOW FROST LINE SHALL NOT BE INSULATED. 3. 8. 4. ALL OTHER WATER PIPING SHALL BE INSULATED AS FOLLOWS:
- 3. 8. 4. 1. COLD WATER PIPING: COVER WITH 1/2" ARMAFLEX INSULATION. 3. 8. 4. 2. NON-RECIRCULATING SYSTEM HOT WATER PIPING: COVER WITH 1" ARAMAFLEX INSULATION (THE THERMAL CONDUCTIVITY OF THE INSULATION SHALL NOT BE LESS THAN
- 0.27 BTU*IN/(HR*FT²**F)) FOR FIRST 8' OF PIPE FROM WATER HEATER AND 1/2" ARAMAFLEX INSULATION EVERYWHERE ELSE.
- 3.8.4.3. RECIRCULATING SYSTEM HOT WATER SUPPLY, RETURN LINES, AND IN THE LOOP: COVER WITH 1" ARAMAFLEX INSULATION (THE THERMAL CONDUCTIVITY OF THE INSULATION SHALL NOT BE LESS THAN 0.27 BTU*IN/(HR*FT2**F))
- 3.8.5. WASTE TRAPS LOCATED WITHIN A CRAWL SPACE SHALL BE INSULATED WITH A MINIMUM 2" THICK FIBERGLASS INSULATION. 3.8.6. ALL ABOVE GROUND STORM DRAIN PIPING SHALL BE INSULATED WITH A FIBERGLASS INSULATION JACKET.
- 3. 9. 1. INTERIOR CLEANOUTS SHALL BE CAST IRON BODY WITH A BRONZE OR NICKEL ALLOY TOP, JOSAM OR EQUAL. 3.9.2. EXTERIOR CLEANOUTS SHALL BE CAST IRON WITH IRON TOPS. CLEANOUTS IN TRAFFIC AREAS SHALL BE TRAFFIC RATED, ZURN OR EQUAL. INSTALL CLEANOUTS IN 6" THICK
- 24" DIAMETER CONCRETE COLLARS. 3. 9. 3. WALL CLEANOUTS SHALL BE INSTALLED BEHIND STAINLESS STEEL COVER PLATES.
- 3. 10. VENTS SHALL PENETRATE ROOF WITH FLEXIBLE BOOTS WITH FLASHING FLANGE.
- 3. 11. GAS PIPING:
- ALL GAS SYSTEM MATERIALS AND INSTALLATION SHALL BE AS PER THE STATE BUILDING CODE, VOLUME VI, AND NFPA-54. GAS VALVES SHALL BE GAS COCKS RATED FOR GAS SERVICE.
- 3.11.3. GAS PIPE SHALL BE SCH 40 CARBON STEEL PIPE GRADE A53. JOINT CONNECTIONS SHALL BE RATED FOR GAS SERVICE AND SHALL BE AS FOLLOWS: 3. 11. 3. 1. FOR PIPE UP TO Ø2": THREADED JOINTS
- 3. 11. 3. 2. FOR PIPE OVER Ø2": WELDED JOINTS
- 3.11.4. CONNECTIONS TO GAS APPLIANCES SHALL BE MADE WITH FLEX PIPE, UL RATED FOR THE SPECIFIC APPLICATION. PROVIDE CONNECTOR RESTRAINT IF REQUIRED BY CODE. 3.11.5. TRANSITION FROM CARBON STEEL TO COPPER SHALL BE MADE USING DIELECTRIC UNION.
- 4. 1. ALL HOLES THROUGH WALLS, FLOORS AND CEILINGS ARE TO BE DRILLED, NOT BROKEN. ROUND ALL SHARP EDGES TO DRILLED HOLES.
- 4.2. LINES ARE NOT TO BE COVERED UNTIL INSPECTED BY THE ARCHITECT 4.3. WRAP COPPER PIPE WITH DUCT TAPE WHERE IT PENETRATES THE FLOOR.
- 4.4. DO NOT MAKE A WATER LINE JOINT UNDER THE SLAB. 4.5. WATER HAMMER ARRESTORS SHALL COMPLY WITH ASSE 1010. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 4.5.1. A WATER HAMMER ARRESTOR SHALL BE INSTALLED AT FIXTURES THAT HAVE QUICK CLOSING VALVES WHEN METALLIC PIPE IS INSTALLED.
- 4.6. WASTE PIPES PASSING UNDER OR THROUGH FOUNDATIONS OR THROUGH LOAD BEARING SECTIONS OF A WALL SHALL BE ROUTED THROUGH D. I. SLEEVES AT LEAST TWO PIPE SIZES LARGER THAN THE 4.7. SUFFICIENT HANGERS, SUPPORTS, CLAMPS, CLIPS, INSERTS AND MAINTAINING DEVICES SHALL BE PROVIDED TO SUPPORT ALL PIPING AS PER GOOD PIPING PRACTICE AND TO MAINTAIN PROPER
- DRAINAGE. 4.8. ALL EQUIPMENT SHALL BE INSTALL AS PER THE MANUFACTURER'S INSTRUCTIONS AND PERTINENT INFORMATION.
- 4.9. UNDERGROUND PIPING SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. 4.9.1. ALL TRENCHES UNDERGROUND PIPING IS INSTALLED IN SHALL BE CLEAR OF ALL ROCKS AND OTHER ABRASIVE MATERIALS.
- TRENCH BOTTOMS SHALL BE FULLY COMPACTED AND FULLY SUPPORT THE PIPE.
- 4.9.3. FILL DIRT TO 6" ABOVE TOP OF PIPE TO BE CLEAN AND FREE OF ABRASIVE MATERIALS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR PIPE BEDDING GIVEN SOIL CONDITIONS.
- 4.10. PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ASSURE THAT ALL PIPE INTERFERENCES (FOUNDATIONS, CABLES, OTHER PIPING, ETC.) ARE AVOIDED BY UNDERGROUND PLUMBING. 4.11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT PLUMBING WALLS ARE CONSTRUCTED TO ALLOW INSTALLATION OF FIXTURE CARRIERS. PLUMBING CONTRACTOR SHALL COORDINATE
- WITH GENERAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
- CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURE HANGER AS REQUIRED FOR PROPER INSTALLATION. WATER PIPE ROUTED THROUGH STUDS SHALL BE PROTECTED BY METAL STUD GUARDS.
- INSTALL ALL WATER PIPING INSIDE OF BUILDING INSULATION IF POSSIBLE. WATER PIPING INSTALLED IN ATTIC SPACE MUST BE UNDER BATT INSULATION. IF BLOWN INSULATION IS USED IN ATTIC SPACE WATER PIPE SHALL BE INSULATED AS IF WERE IN AND UNCONDITIONED SPACE. VENT TERMINALS SHALL NOT BE LOCATED WITHIN 10' OF ANY AIR INTAKE OPENING.
- PROVIDE A CARBON STEEL DIRT LEG IN SUPPLY LINE TO EACH GAS USER.
- INSTALLATION OF PEX WATER PIPE SHALL BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. ALL PIPE EXPANSION PROVISIONS SHALL BE ADDED TO WATER PIPING LAYOUT AS RECOMMENDED BY MANUFACTURER.
- 4.18. NATURAL GAS PIPE SUPPORT SPACING SHALL BE AS PER N. C. STATE CODE, VOLUME VI. UNDERGROUND GAS PIPING PENETRATING ASPHALT OR A CONCRETE PAD, SHALL DO SO THROUGH A CARBON STEEL SLEEVE.

- 4. 20. ALL GAS PIPING SHALL BE ELECTRICALLY GROUNDED AS PER NFPA-70. IF GAS BURNING EQUIPMENT IS ON THIS PROJECT, THE UNITS SHALL NOT BE FIRED OFF UNTIL THE CONTRACTOR HAS VERIFIED THAT THE FUEL AVAILABLE ON SITE IS THE FUEL THE UNITS
- ARE DESIGNED TO BURN. 4.22. ALL PIPING SHALL BE LABELED WITH PLASTIC LABELS INDICATING PIPE TYPE (I.E. GAS. COLD WATER, HOT WATER, ETC.) AND DIRECTION OF FLOW, PLACE LABELS ON 25' CENTERS.
- 4. 22. 1. WHERE WATER DISTRIBUTION PIPING IS BUNDLED AT INSTALLATION, EACH PIPE IN THE BUNDLE SHALL BE IDENTIFIED USING COMMERCIAL PIPE LABELS. THE IDENTIFICATION SHALL INDICATE THE PIPE CONTENTS AND DIRECTION OF FLOW WITHIN THE PIPE. THE INTERVAL OF IDENTIFICATION MARKINGS SHALL BE AS DIRECTED IN 4.22 ABOVE.
- THERE SHALL NOT BE LESS THAN ONE IDENTIFICATION LABEL ON EACH PIPE IN EACH ROOM, SPACE, OR STORY. **ELECTRICAL CONNECTIONS:**
- 5. 1. ELECTRICAL CONTRACTOR SHALL DIRECT WIRE ALL EQUIPMENT REQUIRING POWER. 5. 2. CONTROL WIRING SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.
- 6. TESTING: 6. 1. HOT AND COLD WATER PIPING:
- 6.1.1. THE HOT AND COLD WATER PIPING SHALL HOLD A HYDROSTATIC TEST PRESSURE OF 100 PSI FOR A PERIOD OF AT LEAST 1-1/2 HOURS. ANY JOINT TO LEAK UNDER TEST
- SHALL BE BROKEN, REMADE AND RETESTED. ANY EXISTING WATER LINES WHICH ARE TIED TO NEW WATER LINES SHALL MEET THE FOLLOWING:
- 6. 1. 2. 1. VERIFY EXISTING LINES TIE PROPERLY TO EXISTING WATER SYSTEM.
- 6.1.2.2. VERIFY EXISTING WATER LINES ARE IN GOOD CONDITION AND FREE FROM LEAKS. 6.1.2.3. ANY REUSED EXISTING PIPE SHALL BE REPLACED AS NEEDED TO PROVIDE A PROPERLY OPERATING WATER SYSTEM.
- 6. 2. WASTE PIPING: 6.2.1. ALL WASTE PIPING SHALL BE TESTED BY FILLING THE LINES TO OVERFLOWING. ANY JOINT FOUND TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED.
- ANY EXISTING WASTE LINES WHICH ARE TIED TO NEW LINES SHALL BE VERIFIED THAT:
- 6. 2. 2. EXISTING LINES ARE IN GOOD CONDITION AND FREE FROM LEAKS.
- 6. 3. GAS PIPING:
- CHLORINATION: 7.1. ALL WATER PIPING SHALL BE CHLORINATED TO 50 PPM RESIDUAL CHLORINE AFTER TWENTY-FOUR HOURS AND TO THE SATISFACTION OF THE LOCAL HEALTH DEPARTMENT OR BUILDING INSPECTION DEPARTMENT SUBSTITUTION
- 8.1. ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED.
- APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE
- PLACING IN SERVICE:
- 9.3. THE PLUMBING CONTRACTOR SHALL ACQUAINT THE OWNER'S REPRESENTATIVE WITH THE PROPER OPERATION OF THE PLUMBING SYSTEM.
- 10. VISIT TO THE SITE: 10.1. ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- 11.1. AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER THE CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS COVERING FIXTURES, AND ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.
- CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY STATE BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS.

6. 2. 2. 1. EXISTING LINES TIE PROPERLY TO EXISTING WASTE SYSTEM. 6.2.2.3. ANY REUSED EXISTING PIPE SHALL BE REPLACED AS NEEDED TO PROVIDE A PROPERLY OPERATING WASTE SYSTEM. 6.3.1. GAS PIPE SHALL HOLD A 25 PSIG AIR TEST FOR 1-1/2 HOURS. ANY JOINT FOUND TO LEAK SHALL BE BROKE, REMADE AND RETESTED. 8.2. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS. ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA. 9. 1. UPON COMPLETION OF THE ENTIRE SYSTEM. THE PLUMBING CONTRACTOR SHALL FLUSH ALL LINES TO INSURE PROPER FLOWS. ALL FIXTURES SHALL BE LEFT CLEAN. 9. 2. THE PLUMBING CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. 12. FIRE RATED WALLS, FLOORS, & CEILINGS: 12.1.1. ALL FIRESTOP SYSTEMS SHALL BE APPROVED FOR THEIR APPLICATION BY LOCAL INSPECTION AUTHORITIES PRIOR TO FIELD INSTALLATION.

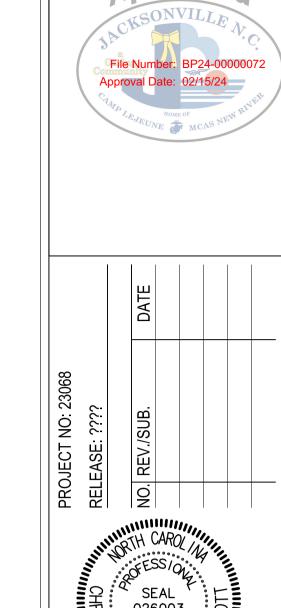
PLUMB	ING FIXTURE	SCHE	DULE					
SYM.	FIXTURE	CW	н₩	DRAIN	STOPS & VALVES	MFR.	MODEL	REMARKS
P1	WATER CLOSET TANK HANDICAP	1/2"	-	3"	1/2" x 3/8" ANGLE	AMERICAN STANDARD	215FC104. 020	INCLUDE SUPPLY VALVE WITH CHROME PLATED RISER AND WALL FLANGE; ADA GRAB BARS; BEMIS CHURCH MODEL 9500SSCT SEAT. SEE NOTES 1, 2, 7, 10
P2	LAVATORY WALL HUNG	1/2"	1/2"	1-1/4"	1/2" X 3/8" ANGLE	NAMEEKS	SCARABE0 5507-49	INCLUDE SUPPLY VALVE WITH CHROME PLATED RISER AND WALL FLANGE & DELTA 567LF-BLMPU W/ POP-UP DRAIN; CONCEALED ARM SUPPORTS & 1-1/4" X 1-1/4" TUBULAR P-TRAP CP; MIX VALVE THAT CONFORMS TO ASSE 1070 AND IS SET FOR A MAXIMUM OUTPUT TEMPERATURE OF 110°F. SEE NOTE 1, 3, 7
P3	SHOWER	1/2"	1/2"	2"	INTERGRAL	DELTA	T14253-WE	INCLUDE MIX VALVE THAT CONFORMS TO ASSE 1070 AND IS SET FOR A MAXIMUM OUTPUT TEMPERATURE OF 110°F; SEE NOTES 4,7,9
P4	CLOTHES WASHER CONNECTION	1/2"	1/2"	2"	-	-	-	INCLUDE HOT & COLD WATER SHUTOFF VALVES, INDIRECT DRAIN, AND RECESSED WALL BOX
P5	FLOOR SINK	-	-	3"	-	ZURN	Z1900	12"X12"(TOP)X6"(DEPTH); CAST IRON BODY WITH PORCELAIN ENAMEL INTERIOR AND TOP; ABS DOME STRAINER; VERIFY WITH OWNER IF GRATE IS REQUIRED.
P6	TRENCH DRAIN	-	-	2"	-	ZURN	ZS880	4'LONG BY 6" WIDE; TWO BOTTOM 2" OUTLETS; 304 STAINLESS STEEL CONFIRM GRATE DESIGN AND FINISH WITH OWNER BEFORE ORDERING
P7	FLOOR DRAIN	-	-	SEE DRAWING	-	ZURN	ZN-Z415B-P	NIKALOY TOP; DEEP SEAL TRAP; PROVIDE PRIMER TAP; SEE NOTE 5
P8	WALL CLEANOUT COVER PLATE	-	-	-	-	ZURN	Z-1469	STAINLESS STEEL
Р9	WATER HEATER	1-1/4"	1-1/4"	-	GATE	STATE WATER HEATER	CSB 52 9 SFE	50 GALLONS; 77 GAL FIRST HOUR RATING; 37 GPH @ 100°F RECOVERY RISE; 9.0KW; 208V 3 PHASE; INCLUDE WATER HEATER PAN; PRESSURE RELIEF VALVE; INSULATED BLANKET IF NOT SUPPLIED WITH WATER HEATER.
P10	DIAPHRAGM TANK	3/4"	_	_	_	STATE WATER HEATER	ETC-5X	SIZED FOR 60 GALLON WATER HEATER; PROVIDE PRESSURE CHARGE AS PER MANUFACTURER INSTRUCTIONS
P11	CIRCULATION PUMP	1/2"	-	_	-	TACO	003	2 GPM @ 4' TDH, 110 VOLT; PROVIDE PROGRAMMABLE TIME CLOCK AND COORDINATE WITH OWNER FOR SCHEDULE.
P12	DRINKING FOUNTAIN	1/2"	-	1-1/4"	-	ELKAY	LBWDOOWHC	SEE NOTES 1,7
P13	HOSE BIBB	3/4"	-	-	-	WOODFORD	B24	ASSE 1011 APPROVED BACKFLOW PREVENTER. VERIFY LOCATION AND FINISH WITH OWNER. VERIFY FIT OF INSTALLATION WITH WALL CONSTRUCTION PRIOR TO ORDERING.
P14	MOP BASIN	1/2"	1/2"	3"	_	FIAT	SB3636	FAUCET: 830AA W/VACUUM BREAKER / HOSE: 832-AA MOP HANGER: 889-CC / STRAINER: E72-DD SEE NOTE 6

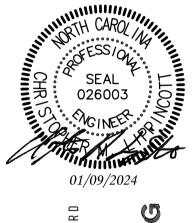
<u>PLUMBING FIXTURE SCHEDULE NOTES:</u>

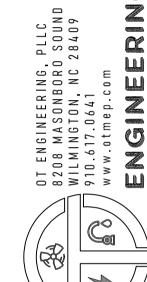
- MATERIAL AND INSTALLATION SHALL BE PER STATE HANDICAP CODE REQUIREMENTS AND ADA REQUIREMENTS. TOILETS SHALL FLUSH ON A MAXIMUM OF 1.6 GALLONS PER FLUSH. THE USE OF OFFSET WATER CLOSET FLANGES IS PROHIBITED. MISALIGNED WATER CLOSET FLANGES MUST BE RE-PIPED,
- LAVATORIES SHALL HAVE 0.5 GPM FLOW AERATORS. BOTH FIXED HEAD AND HAND HELD SHOWER HEAD SHALL HAVE FLOW RESTRICTOR TO PASS A MAXIMUM OF 2.5 GPM.
- 5. INDICATED FLOOR DRAIN SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE TAIL PIECE WITH WATER SAVER TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SAVER TRAP PRIMER SHALL BE ACCESSIBLE AND CODE APPROVED. 5.1. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE AND INSTALLED ON WALL ABOVE FLOOR SINK OF CLOSEST PREP SINK.
- 6. INSTALL CHECK VALVE ON COLD & HOT SUPPLY LINES SERVING MOP SINK. 7. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING FIXTURE INSTALLATION. PROVIDE WASTE AND WATER TRIM AND ACCESSORIES. IF SLIP JOINTS ARE USED FOR WASTE CONNECTION, AN ACCESS PANEL WITH STAINLESS STEEL COVER SHALL BE SUPPLIED TO ACCESS JOINTS.
- NOT USED. 9. SHOWER VALVES MUST CONFORM TO THE REQUIREMENTS OF ASSE 1016 OR CSA 8125.
- 10. WATER CLOSET SPECIFIED IS LEFT SIDE FLUSH. PLUMBER SHALL INSTALL COMPARABLE MODEL WITH RIGHT SIDE FLUSH AS REQUIRED SO FLUSH HANDLE IS LOCATED ON OPEN SIDE OF WATER CLOSET IN CONFORMANCE WITH HANDICAP REQUIREMENTS. 11. NOT USED 12. NOT USED.
- 13. SINKS SHALL HAVE 2.2 GPM FLOW AERATORS

	N36 VACUUM — VE IF WATER BOTTOM FED.
HEA	T TRAP H P11 T P10 T T P10 T T T T T T T T T T T T T
	P9
AIR GAP	ROUTE 1" CPVC TO MOP SINK BELOW.
SINK. COORDINA	HEATER ABOVE MOP TO THE WITH GENERAL TOR FOR SUPPORT.
A P0.1	WATER HEATER PIPING Scale: NTS

	LEGEND
с	COLD WATER PIPE- ABOVE GRADE
c	COLD WATER PIPE- BELOW GRADE
нн	HOT WATER PIPE- ABOVE GRADE
	HOT WATER RECIRCULATION PIPE- ABOVE GRADE
	GAS PIPE- ABOVE GROUND
	GAS PIPE EXISTING- ABOVE GROUND
	GAS PIPE BELOW GROUND
	GAS PIPE EXISTING- BELOW GROUND
	WASTE PIPE- SOIL
	WASTE PIPE EXISTING- SOIL
	VENT PIPE
С	ELBOW DOWN
0-	ELBOW UP
\Box	WALL CLEANOUT
\otimes	FLOOR DRAIN
	TRENCH DRAIN
	FLOOR SINK
	HOSE BIBB
JL	VENT TO ROOF
\triangleright	PIPE REDUCER
1 1	UNION
\bowtie	BALL VALVE
7	CHECK VALVE
Ŕ	GAS PRESSURE REGULATOR VALVE
×	GAS SHUTOFF VLAVE
\bowtie	GATE VALVE
#	RELIEF VALVE
VTR	VENT THROUGH ROOF
AAV	AIR ADMITTANCE VALVE
CO	CLEAN OUT



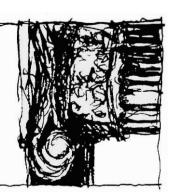




 $\frac{1}{2}$ SPA Bran MENT Gum 1700

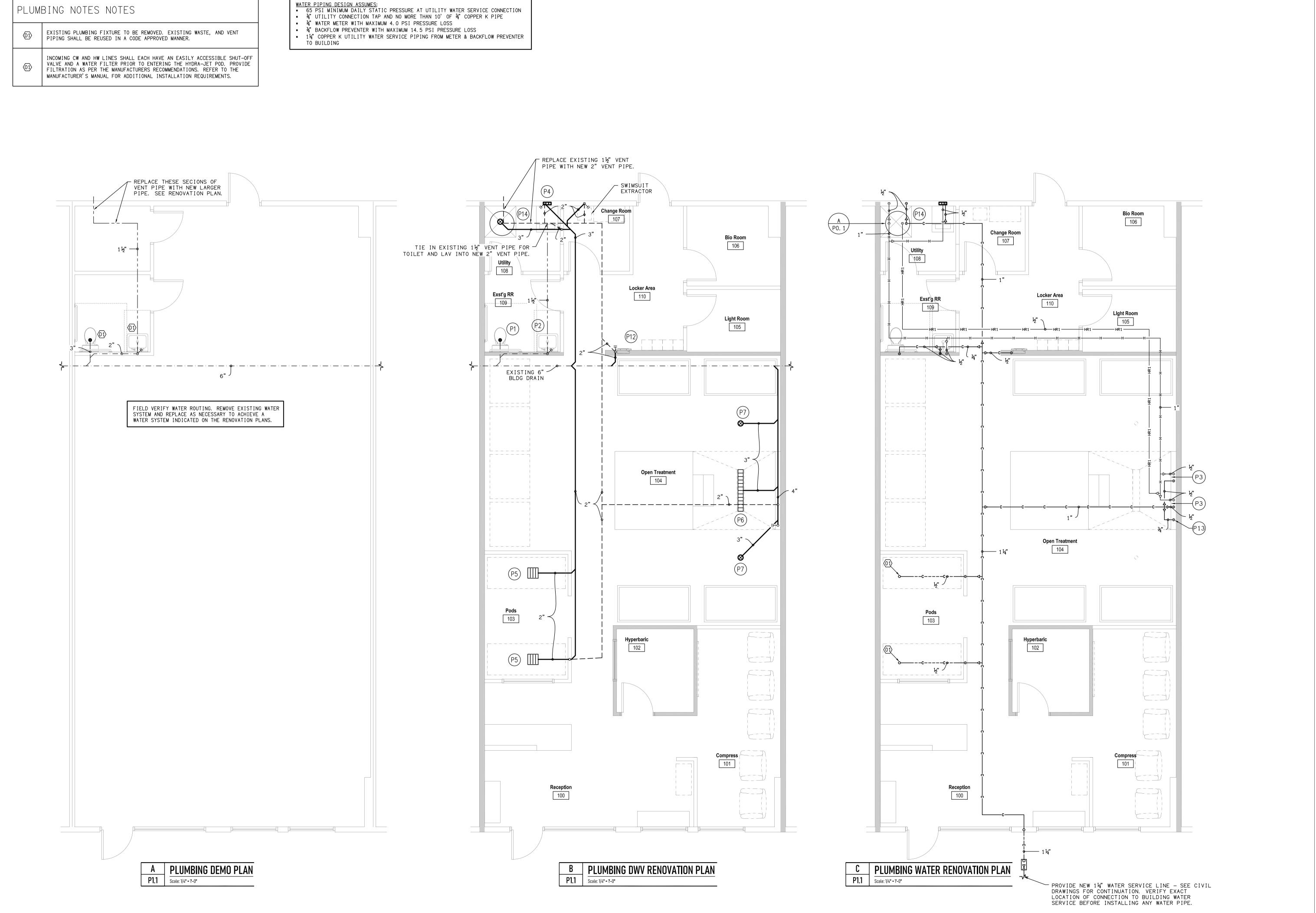
Y S S Y o r` hit sig υ ψ

Aٍ



SHEET TITLE - NUMBER

& Specifications



Plotted: 1.9.2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022

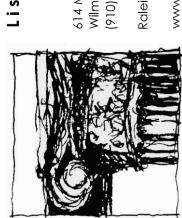


01/09/2024

OT ENGINEERING, PLLC
8208 MASONBORO SOUND R
WILMINGTON, NC 28409
910.617.0641
www.otmep.com

AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Lisle Architecture & Design, Inc. 614 Market Street Wilmington, NC 28401



SHEET TITLE - NUMBER

Plumbing Piping Plans

P1.

1700 MECHANICAL SPECIFICATIONS

1701 GENERAL

- A. CODES, REGULATIONS AND STANDARD INSTALLATION ARE TO COMPLY WITH THE LATEST EDITION OF THE STATE BUILDING CODE, NFPA 90A, AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES. IN THE CASE OF CONFLICT BETWEEN VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
- FEES AND PERMITS: PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, PERFORM ALL WORK AND TEST AND PAY ALL FEES NECESSARY TO MAKE THE HEATING, AIR
- CONDITIONING AND VENTING SYSTEM OPERABLE AND READY FOR USE BY THE OWNER. D. GUARANTEE: ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. ALL COMPRESSORS SHALL HAVE A FIVE (5) YEAR
- GUARANTEE STARTING AFTER FINAL ACCEPTANCE OF WORK. E. IT IS UNDERSTOOD AND AGREED THAT THESE PLANS AND SPECIFICATIONS SHALL BE FULFILLED IN THEIR TRUE SPIRIT AND INTENT SO THAT ANY MINOR MATERIALS OR DEVICES ESSENTIAL TO PROPER AND CONVENIENT OPERATION, REQUIRED OR IMPLIED, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WITHOUT EXTRA CHARGE, EVEN THOUGH NOT SPECIFICALLY CALLED FOR.
- INSTALLATION SHALL COMPLY WITH OSHA STANDARDS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE SPECIFICATIONS,
- THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM THE JOB SITE. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA.
- DIVISION I SHALL BECOME A PART OF THESE SPECIFICATIONS BY REFERENCE. ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE STATE BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS
- FIELD FOR THIS DESIGN. FOR ONE POSSIBLE SOURCE FOR THIS SERVICE, CONTACT SEISMIC CONTROL AND ISOLATION, INC. PHONE: 910-799-5204. ALL REQUIRED INSPECTIONS FOR THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED INSPECTORS AND AGENCIES HIRED BY THE OWNER OR OWNER'S AGENT.

- WORK SHALL INCLUDE BUT NOT BE LIMITED TO: PROVIDE AND INSTALL SPLIT SYSTEM HEAT PUMP SYSTEMS, DUCT, DIFFUSERS, GRILLES AND APPURTENANCES.
- PROVIDE AND INSTALL DEHUMIDIETER SYSTEM. PROVIDE AND INSTALL VENT FANS AND DUCT.

K. THE ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY.

PROVIDE AND INSTALL ALL CONTROLS. PROVIDE ALL INCIDENTAL MATERIALS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONING HVAC SYSTEM.

1703 MATERIALS

- A. HEATING, VENTILATION AND AIR CONDITIONING DUCT SHALL BE: 1. ALL CONCEALED HEATING AND COOLING MAIN SUPPLY AND RETURN DUCT SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING, UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. DUCT INSULATION SHALL COMPLY WITH ALL STATE ENERGY CODE REQUIREMENTS AND HAVE A MINIMUM R-VALUE AS SHOWN BELOW:
 - 1.1. SUPPLY DUCTS INSIDE THERMAL ENVELOPE...... .FOR NOISE SUPPRESSION RECTANGULAR RIGID MAIN TRUNK SHALL HAVE 1/2" MEETING 1.2. RETURN DUCTS INSIDE THE THERMAL ENVELOPE... REQUIREMENTS OF ITEM 2 BELOW. ALL OTHER RETURN DUCTS: NONE REQUIRED.
 - 1. 3. FRESH AIR INTAKE DUCTS. . 1. 4. ALL DEHUMIDIFIER DUCTS. . NONE REQUIRED
 - INSULATION SHALL MEET ALL CODE REQUIREMENTS. 2. ALL EXPOSED HEATING AND COOLING MAIN SUPPLY AND RETURN DUCT SHALL BE GALVANIZED SHEET METAL WITH DUCT LINER, UL LABELED FOR CLASS 1 AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS. DUCT INSULATION SHALL NOT PROMOTE OR SUPPORT THE GROWTH OF MOLD, FUNGI OR BACTERIA (WHEN TESTED IN ACCORDANCE WITH UL 181, ASTM C1338, OR ASTM D3273), SHALL NOT BREAK AWAY, CRACK, PEEL FLAKE OFF, OR SHOW EVIDENCE OF DELAMINATION OR EROSION (WHEN TESTED IN ACCORDANCE WITH UL 181) AND SHALL COMPLY WITH ALL STATE ENERGY CODE REQUIREMENTS AND HAVE A MINIMUM R-VALUE AS SHOWN BELOW:
 - 2. 1. SUPPLY DUCTS. R=4. 0 2.2. RETURN DUCTS......MINIMUM ½" FOR NOISE SUPPRESSION
 - INSULATION SHALL MEET ALL CODE REQUIREMENTS. 3. FLEX RUNOUTS SHALL BE FLEX DUCT BY ATCO OR EQUAL AND SHALL BE UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE
- GENERATION REQUIREMENTS. MINIMUM R-VALUE SHALL BE R=6.0
- RIGID RUN OUTS SHALL BE GALVANIZED SHEET METAL WITH FIBERGLASS WRAP WITH FOIL BACKING WHICH MEET REQUIREMENTS OF ITEM 1. PROVIDE SINGLE THICKNESS TURNING VANES IN MAIN SUPPLY AND RETURN DUCT AT TEES AND 90° ELLS.
- FRESH AIR MAKE-UP SHALL BE CLASS I DUCT WITH INSULATION WHICH MEET REQUIREMENTS OF ITEM 1.
- 7.1. VENT DUCT SHALL BE 26 GA. MINIMUM GALVANIZED SHEET METAL.
- 7.2. THE FIRST 3'-0" OF DUCT FROM THE EXTERIOR WALL SHALL BE INSULATED WITH INSULATION MEETING REQUIREMENTS OF ITEM 1 (MINIMUM R-VALUE SHALL BE 8.0).
- 7.3. VENTILATION DUCT FOR EXHAUST FAN MAY BE UNINSULATED EXCEPT AS REQUIRED BY ITEM 7.2 THERMOSTAT CABLE SHALL BE UL APPROVED FOR THE APPLICATION.
- CONDENSATE PIPE SHALL BE A MINIMUM OF ¾" PVC (CPVC FOR PLENUM SPACES) WITH 1/2" ARMAFLEX TYPE INSULATION FOR INTERIOR RUNS.
- ALL RUNOUT SUPPLY DUCTS SHALL HAVE BALANCING DAMPERS.
- REFRIGERATION TUBING SHALL BE SIZED PER THE EQUIPMENT MANUFACTURERS RECOMMENDATION AND INSULATED WITH A MINIMUM THICKNESS OF 15" AND A INSULATION CONDUCTIVITY NOT TO EXCEED 0.27 BTU*IN/(HR*FT2**F). DIFFERENT THICKNESSES AND CONDUCTIVITIES ARE ALLOWED THAT COMPLY THE REQUIREMENTS OF THE STATE ENERGY CODE. INSULATION SHALL MEET ALL MANUFACTURER'S RECOMMENDATIONS AND STATE ENERGY CODE REQUIREMENTS. ALL INSULATION EXPOSED TO SUNLIGHT SHALL BE PROVIDED WITH A UV PROTECTIVE COATING/COVERING.
- ALL SUPPLY AND RETURN GRILLES SHALL HAVE FULLY INSULATED BACK UNLESS NOTED OTHERWISE. G. ALL INTAKE OPENINGS SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS GREATER THAN 1/2" AND NOT GREATER THAN 1/2"
- H. ALL EXHAUST OPENINGS (EXCEPT DRYER EXHAUST) SHALL BE PROTECTED WITH A CORROSION RESISTANT SCREEN WITH OPENINGS NOT LESS THAN 1/4" AND NOT GREATER THAN ½".

1704 EXECUTION

- ALL HOLES SHALL BE DRILLED OR CUT, DO NOT BREAK HOLES.
- THE MECHANICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING, AND PAINTING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED UNDER THIS CONTRACT AND SHALL ESTABLISH ALL FINISHES WHEN CUTTING AND PATCHING OCCUR TO THEIR ORIGINAL CONDITION. QUALIFIED WORKERS SHALL DO ALL CUTTING AND PATCHING WORK (I.E. DRY WALL CUTTING AND PATCHING SHALL BE DONE BY QUALIFIED DRY WALL CRAFTSMEN.)
- CONTRACTOR SHALL BALANCE THE AIR CONDITIONING SYSTEM AS SHOWN ON THE PLANS WITHIN 10% OF THE NUMBER SHOWN. CONTRACTOR SHALL SUBMIT A BALANCING REPORT SHOWING THE ACTUAL CFM READINGS OF ALL SUPPLY REGISTERS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT. D. UNLESS NOTED OTHERWISE THE DUCT DIMENSIONS SHOWN REFER TO THE DUCTS INSIDE FREE AIR SPACE DIMENSION. ROUND OR RECTANGULAR DUCT MAY BE USED
- IN PLACE OF THE TYPE OF DUCT SHOWN AS LONG AS THE FOLLOWING REQUIREMENTS ARE MET. 1. THE REPLACEMENT DUCT SIZE SHALL HAVE A STATIC PRESSURE DROP AND AVERAGE DUCT VELOCITY EQUAL TO OR LESS THAN THE DUCT SIZE SHOWN ON
- THE DRAWINGS. THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE NEW DUCT DESIGN. INCLUDING BUT NOT LIMITED TO. FIT. CLEARANCES AND AFFECTS ON OTHER
- CONTRACTOR SHALL SUPPLY ALL HANGERS AND SUPPORTS NECESSARY TO SUSPEND DUCT WORK AND EQUIPMENT AS PER GOOD INSTALLATION PRACTICE AND THE
- ALL DUCT SHALL BE CONSTRUCTED. SUPPORTED AND REINFORCED PER SMACNA STANDARDS.
- MECHANICAL CONTRACTOR SHALL PROVIDE ALL THERMOSTATS, CONTROL, RELAY, STARTERS ETC., FOR A COMPLETE CONTROL SYSTEM FOR THE HEAT PUMP UNITS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PENETRATIONS AND PATCHING. MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE OF CONDENSATE IS NOT POSSIBLE WITHOUT ADDITIONAL EXPENSE TO
- INSTALLATION SHALL COMPLY WITH ALL STATE ENERGY CODE REQUIREMENTS.
- ALL REFRIGERATION PIPING AND CONDENSATE PIPING SHALL BE PROPERLY SUPPORTED AS PER MANUFACTURERS RECOMMENDATIONS. STATE BUILDING CODE. AND GOOD PIPING PRACTICES. PROPER DRAINAGE OF CONDENSATE LINES SHALL BE MAINTAINED.
- ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICE. THERE WILL BE MINIMUM 10' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL BUILDING EXHAUSTS AND PLUMBING VENTS. HORIZONTAL AIR HANDLER INSTALLATIONS SHALL INCLUDE VIBRATION ISOLATION SUPPORTS. VERTICAL FLOOR MOUNTED AIR HANDLERS SHALL BE SUPPORTED ON
- AIR INTAKE AND EXHAUST WEATHER CAPS, GRILLES, AND LOUVERS SHALL BE SIZED TO PRODUCE A STATIC PRESSURE DROP OF 0.05" OR LESS AT DESIGN AIR
- FLOW. WEATHER CAPS SHALL BE ALUMINUM BY GREENHECK OR EQUAL. DUCT SYSTEMS SHALL BE SEALED STRICTLY AS PER THE STATE ENERGY CODE.
- ALL DUCT WORK TRANSITIONS SHALL BE SUPPLIED AS REQUIRED FOR CONNECTION OF ALL DUCTED EQUIPMENT AND SYSTEM COMPONENTS. ALL OUTSIDE AIR INTAKE DUCTS (ONE FOR EACH AIR HANDLER) SHALL HAVE BACKDRAFT DAMPERS BALANCED TO OPEN AND ALLOW IN OUTSIDE AIR AS
- INDICATED ON DRAWINGS WHEN AIR HANDLER FAN IS RUNNING. THE USE OF ELECTRONICALLY DRIVEN DAMPERS TIED TO THE AIR HANDLER OPEN WHEN FAN IS ON, CLOSED WHEN FAN IS OFF, SHALL BE AN ACCEPTABLE ALTERNATE. ALL ELECTRICAL CONNECTIONS SHALL BE COORDINATED WITH ELECTRICIAN.
- S. PROVIDE OPERATION AND MAINTENANCE MANUALS TO THE BUILDING OWNER.

1705 ELECTRICAL CONNECTIONS

- ELECTRICAL CIRCUIT SIZES AND NUMBER ARE BASED ON THE MANUFACTURER OF THE EQUIPMENT SPECIFIED, AND IT SHALL BE THE RESPONSIBILITY OF THE HEATING AND AIR CONDITIONING CONTRACTOR TO CHANGE ANY AND ALL ELECTRICAL WORK IN ORDER TO FIT EQUIPMENT OTHER THAN THAT SPECIFIED. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE OWNER TO ASSURE THAT ALL UNITS ARE PROPERLY CONNECTED AND SHALL CHECK THE WIRING PRIOR TO STARTING UNITS. TERMINATION OF ELECTRICAL POWER WILL BE AS FOLLOWS: ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONNECT ALL POWER TO THE MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTROL AND THERMOSTAT SYSTEMS FOR THE HEATING, AIR CONDITIONING SYSTEMS.
- MECHANICAL CONTRACTOR SHALL PROVIDE THE EMERGENCY SHUTDOWN CONTROLS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR ON DUCT DETECTOR INSTALLATION AND AIR HANDLING UNIT SHUTDOWN. 4. MECHANICAL CONTRACTOR SHALL PROVIDE ANY REQUIRED ELECTRICAL CONNECTIONS FOR CONDENSATE PUMPS WITHOUT ADDITIONAL COST TO THE OWNER.

1706 TESTS

ALL HEATING COOLING AND VENTILATION EQUIPMENT, UPON COMPLETION, SHALL BE TESTED FOR AT LEAST ONE (1) DAY AND SHALL BE SHOWN TO BE IN SATISFACTORY CONDITION ON BOTH HEATING AND COOLING. B. CONTRACTOR SHALL SUPPLY ALL NECESSARY LABOR AND EQUIPMENT FOR THE TEST.

ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS SPECIFIED. REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO FULLY IDENTIFY AND APPRAISE THE PRODUCTS. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS, EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA.

ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1709 SHOP DRAWINGS AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS OF HEAT

PUMPS, REGISTERS, FANS, ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. FOUR (4) COPIES OF THIS DATA WILL BE RETURNED BY THE ENGINEER WHO WILL INDICATE APPROVAL OR OTHERWISE.

1710 FIRE RATED WALLS, FLOORS & CEILINGS CONTRACTOR SHALL DETERMINE LOCATION OF ALL FIRE AND SMOKE RATED WALLS, FLOORS AND CEILINGS FROM ARCHITECTURAL DRAWINGS. PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE AS REQUIRED BY THE STATE BUILDING CODE, WITH APPROVED AND APPROPRIATELY RATED UL FIRESTOP SYSTEMS AT ALL PENETRATIONS. ALL DUCT PENETRATIONS SHALL BE PROPERLY PROTECTED WITH RADIATION OR FIRE DAMPERS WITH ALL INSTALLATION STRICTLY AS PER

MANUFACTURERS RECOMMENDATIONS. 1711 PLACING IN SERVICE

UPON COMPLETION OF THE ENTIRE SYSTEM, THE MECHANICAL CONTRACTOR SHALL INSTALL NEW AIR FILTERS AND LEAVE ENTIRE SYSTEM CLEAN AND READY FOR OPERATION. THE MECHANICAL CONTRACTOR SHALL DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE SYSTEM. THE MECHANICAL CONTRACTOR SHALL ACQUAINT THE OWNERS REPRESENTATIVE WITH THE PROPER OPERATION OF THE ENTIRE SYSTEM.

SPLIT SYSTEM HEAT PUMP SCHEDULE

COMPRESSOR									AIR HANDLING UNIT									GENERAL						
	COOLING	ELECTRIC		ELECTRIC		ELECTRIC					HEAT	ER		ELEC	TRIC					FRESH	FRESH	ESP		
SYMBOL	CAPACITY (TONS)	VOLT	PHASE	MCA	MOCP	MFG.	MODEL	SYMBOL	TYPE	CAPACITY (KW)	STAGES	VOLT	PHASE	MCA	MOCP	MFG.	MODEL	FAN CFM	AIR INTAKE (CFM)	AIR INTAKE DUCT SIZE	(IN OF H20) VERT/H. R.	SEER HSPF	REMARKS	
HP-1	3 TONS				VERIF	Y		AHU-1	U-1 HORIZ. VERIFY 1,200 175 8"ø VERI				VERIF	Y	NOTES 1&5									
HP-2	5 TONS	208	1ø	32	50	TRANE	4TWR4060G1	AHU-2	HORIZ.	10. 80	2	208	1ø	22/53	25/60	TRANE	GAM5B0C60	1, 900	300	10"ø	0. 5	14. 00 8. 50	NOTES 5 TO 11	

- HP/AHU-1 IS EXISTING TO BE REUSED. RELOCATE AS INDICATED ON THE PLANS. PROVIDE GALVANIZED DRIP PANS AT EACH UNIT WITH PAN DRAINS TO OUTSIDE BUILDING.
- PROVIDE SOLID STATE PROGRAMMABLE THERMOSTAT WITH SET BACK CONTROLS FOR TIME OF DAY AND DAY OF WEEK, AND CAPABLE OF TEMPORARY MANUAL OVERRIDE.
- PROVIDE CONCRETE PAD FOR COMPRESSORS AND ANCHOR COMPRESSORS TO PADS. DURING CONSTRUCTION THE UNIT SHALL BE PROTECTED WITH CLEAN FILTERS. PROVIDE NEW CLEAN FILTERS AT UNIT AT THE END OF THE PROJECT BEFORE TURNING OVER TO OWNER.
- PROVIDE FRENCH DRAINS FOR CONDENSATE DISCHARGE. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.
- CONSULT WITH COMPRESSOR MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES. PROVIDE MANUFACTURER RECOMMENDED EQUIPMENT FOR ANY LONG REFRIGERANT LINE LENGTHS. PROVIDE LOW AMBIENT CONTROLS FOR FREEZE PROTECTION DOWN TO 15 F.
- PROVIDE CONTROLS THAT PREVENT AUXILIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE.

11. AHU COIL SHALL COME WITH MANUFACTURER FACTORY APPLIED BLACK EPOXY COATING.

COMPLIANCE SCHEDULE - MECHANICAL

(COMPLIANCE SCHEDU	JLE - MECHAN
METHOD OF COMPLIANCE ENERGY COST BUDGET	PRESCRI	IPTIVE
THERMAL ZONE	3	
EXTERIOR DESIGN COND WINTER DRY BUI SUMMER DRY BUI INTERIOR DESIGN COND WINTER DRY BUI SUMMER DRY BUI RELATIVE HUMII	_B _B ITIONS _B _B	24° F 91° F 72° F 75° F 50%
BUILDING HEATING LOAD)	42,896 BTUH
BUILDING COOLING LOAD)	110, 996 BTU

ANICAL SPACING CONDITION	NING SYSTEM
DESCRIPTION OF UNIT HEATING EFFICIENCY -	
COOLING EFFICIENCY -	> SEE EQUIPMENT SCHEDULE.

COOLING OUTPUT OF UNIT -		
BOILER		
TOTAL BOILER OUTPUT (IF OVERSIZED STATE REASON)	N/A	
UVERSIZED STATE REASON)		

TOTAL CHILLER CAPACITY LIST EQUIPMENT EFFICIENCIES SEE EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEM) MOTOR HORSEPOWER NUMBER OF PHASES MINIMUM EFFICIENCY

THE BEST OF MY KNOWLEDGE AND BELIEF. THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEM, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE ENERGY CODE.

TITLE: <u>ENGINEER</u>

MECHANICAL LEGEND

IVIEO	TIANIOAL LEGEND
The state of the s	SUPPLY REGISTER - WALL
\boxtimes	SUPPLY REGISTER - CEILING
	RETURN REGISTER - CEILING
A 100	<u>A - DIFFUSER/GRILLE</u> 100 - CFM
①	THERMOSTAT
\oplus	HUMIDISTAT
20×10	RECTANGULAR DUCT - 20" WIDE INSIDE A/C SYSTEM - 10" HIGH INSIDE
12"ø	SPIRAL ROUND DUCT - 12" I.D.
	TURNING VANES
10"ø	RIGID ROUND DUCT - 10" I.D.
~~~~	FLEX DUCT BALANCING DAMPER
<del></del>	REDUCER
(9)	VENT FAN
$\otimes$	DISCHARGE WEATHER CAP
$\Diamond$	INTAKE WEATHER CAP

FRESH AIR DUCT

——v—— VENTILATION DUCT

EXISTING VENTILATION DUCT

REGIS	STER SCHEDULE									
SYMBOL	DESCRIPTION	NECK	FACE	RUN OUT	VOLUME DAMPER	MATERIAL	COLOR	MFG. (NOTE 1)	MODEL	REMARKS
A	LAY-IN PLAQUE DIFFUSER	6"ø	24×24	6" ø	N0	ALUMINUM	VERIFY	TITUS	OMN I -AA	-
В	LAY-IN PLAQUE DIFFUSER	8"ø	24×24	8" ø	NO	ALUMINUM	VERIFY	TITUS	OMN I -AA	-
С	LAY-IN PLAQUE DIFFUSER	10"ø	24×24	10"ø	NO	ALUMINUM	VERIFY	TITUS	OMN I -AA	-
$\overline{}$	DOUBLE DEFLECTION SUPPLY	8"×4"		6"ø	YES	ALUMINUM	VERIFY	TITUS	300FS	
E	NOT USED									
F	SPIRAL DUCT DOUBLE DEFLECTION SUPPLY	12"×6"	}	-	YES	ALUMINUM	VERIFY	TITUS	S330FL	
G	SPIRAL DUCT DOUBLE DEFLECTION SUPPLY	16"x6"	ı	_	YES	ALUMINUM	VERIFY	TITUS	S300FL	-
н	SPIRAL DUCT DOUBLE DEFLECTION SUPPLY	20"x8"	ı	-	YES	ALUMINUM	VERIFY	TITUS	S300FL	-
I	DOUBLE DEFLECTION SUPPLY	32"×16"	ı	14"øx2	NO	ALUMINUM	VERIFY	TITUS	300FS	-
RA	LAY-IN LOUVERED GRILLE	22"×22"	24×24	6"ø	NO	ALUMINUM	VERIFY	TITUS	350FL	-
RB	LAY-IN LOUVERED GRILLE	10"×22"	12×24	8" ø	NO	ALUMINUM	VERIFY	TITUS	350FL	-
RC	LOUVERED GRILLE	8" x8"		6"ø	NO NO	ALUMINUM	VERIFY	TITUS	350FL	
RD	NOT USED									
RE	LOUVERED GRILLE	36"×16"			YES	ALUMINUM	VERIFY	TITUS	350FL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
RF	LOUVERED GRILLE	32"×16"	-	14"øx2	NO	ALUMINUM	VERIFY	TITUS	350FL	-
GA	LOUVERED GRILLE	12"×12"	-	10"ø	NO	ALUMINUM	VERIFY	TITUS	350FL	_

NOTES:
1. EQUALS ARE METAL-AIRE, PRICE AND KRUEGER

## DEHUMIDIFICATION UNIT SCHEDULE

SYMBOL	CAPACITY	EFFICIENCY	CFM	VOLT	PHASE	MCA	MOP	MFG.	MODEL	WEIGHT	REMARKS
DHUM-1	506 PINTS/DAY @ 80°F/60% RH 349 PINTS/DAY @ 75°F/50% RH	8.1 PINTS/kWH 6.2 PINTS/kWH	1, 350	220-240 NOTE 8	1ø	19	30	QUEST	506	350 LBS	SEE NOTES

UNIT SHALL BE LISTED. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.

- MOUNT UNIT WITH VIBRATION ISOLATORS.
- PROVIDE GALVANIZED DRIP PANS AT EACH UNIT WITH PAN DRAINS TO OUTSIDE BUILDING. PROVIDE LOW VOLTAGE SOLID STATE PROGRAMMABLE WALL MOUNTED HUMIDISTAT.

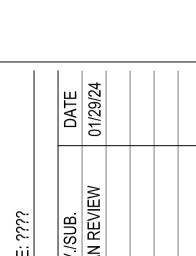
PROVIDE MERV-13 FILTERS PER MANUFACTURERS RECOMMENDATIONS. PROVIDE MANUFACTURERS EXHAUST AND INTAKE DUCTING KIT.

COORDINATE WITH ELECTRICAL CONTRACTOR FOR BUCK/BOOST TRANSFORMER FOR PROPER VOLTAGE.

## VENTILATION FAN SCHEDULE

V = 14 1 1E /	THOM I AIT OOIL											
SYMB0L	DESCRIPTION	CFM SETTING	S. P. (w. g.)	VOLT	PHASE	WATTS	SONES	MOUNTING	MFG. (NOTE 1)	MODEL	CONTROL	REMARKS
F-1	CABINET FAN	325	14"	120	1	98	1. 2	IN-LINE	GREENHECK	CSP-A410	INTERLOCKED TO AHU-2	SEE NOTES

- PROVIDE BACKDRAFT DAMPER.
- PROVIDE VARIABLE SPEED CONTROL





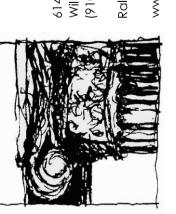


ING, PLLC ORO SOUNI NC 28409 01 82 82 82 87 87



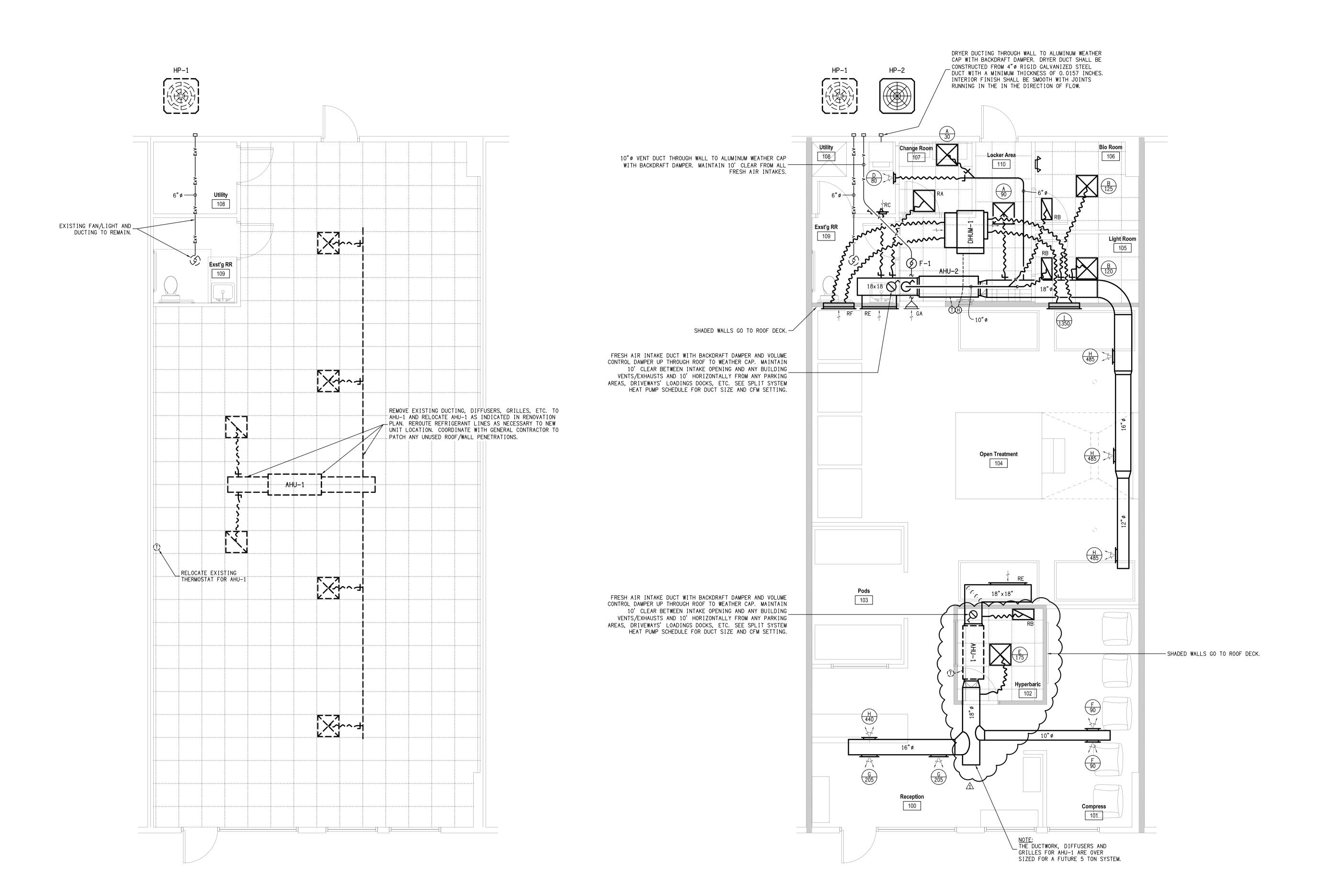
A∕ an SP Br **MENT** A G S -

o r` hit sig U U A۲



SHEET TITLE - NUMBER

Mechanica & Specification:





SEAL 026003 01/30/2024

OT ENGINEERING, PLLC
8208 MASONBORO SOUND R
WILMINGTON, NC 28409
910.617.0641
www.otmep.com

AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Architec Design,



SHEET TITLE - NUMBER

Mechanical



#### ELECTRICAL SPECIFICATIONS

A. INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODE, VOLUME I AND VOLUME X, NATIONAL ELECTRIC CODE, LOCAL BUILDING CODES AND ORDINANCES AND OTHER NATIONAL CODES AND ORDINANCES. IN THE CASE OF CONFLICT BETWEEN THE CODE AND THE DRAWINGS AND SPECIFICATIONS OR BETWEEN THE VARIOUS CODES, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.

TO MAKE THE ELECTRICAL SYSTEM OPERABLE AND READY FOR USE BY THE OWNER.

PROVIDE AND PAY ALL LICENSES, FEES, PERMITS, POWER COMPANY CONNECTION CHARGES, IF ANY, INSURANCE, ETC., REQUIRED FOR EXECUTION OF THIS WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE THE MATERIALS, PERFORM THE WORK AND TEST AND PAY ALL FEES NECESSARY

D. GUARANTEE: EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD

E. IT IS UNDERSTOOD AND AGREED THAT THESE PLANS AND SPECIFICATIONS SHALL BE FULFILLED IN THEIR TRUE SPIRIT AND INTENT SO THAT ANY MINOR MATERIALS OR DEVICES ESSENTIAL TO PROPER AND CONVENIENT OPERATION, REQUIRED OR IMPLIED, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WITHOUT EXTRA CHARGE, EVEN THOUGH NOT SPECIFICALLY CALLED OUT

INSTALLATION SHALL COMPLY WITH OSHA STANDARDS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CLEAN UP AND REMOVAL OF SCRAP FROM THE JOB SITE. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA. THE ENGINEER IS NOT

RESPONSIBLE FOR JOB SITE SAFETY. H. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.

DIVISION I SHALL BECOME APART OF THESE SPECIFICATIONS BY REFERENCE. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED, SUPPORTED, AND RESTRAINED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE REQUIREMENTS FOR SEISMIC DESIGN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER COMPETENT IN THIS FIELD FOR THIS DESIGN. FOR ONE POSSIBLE

SOURCE FOR THIS SERVICE CONTACT SEISMIC CONTROL AND ISOLATIONS, INC. PHONE: 910 799-5204. ALL REQUIRED INSPECTIONS FOR THESE DESIGNS SHALL BE PERFORMED BY APPROVED INSPECTORS AND AGENCIES PROVIDED BY OWNER AND OWNER'S AGENT.

WORK SHALL INCLUDE BUT IS NOT LIMITED TO:

PROVIDE 120/208V-3-4W SERVICE TO THE BUILDING. PROVIDE AND INSTALL FIXTURES AS SHOWN ON THE PLANS.

PROVIDE AND INSTALL WIRING DEVICES, PANELS, AND CONDUIT.

PROVIDE AND INSTALL TELEPHONE PANEL, CONDUIT TO TELEPHONE COMPANY POINT OF DELIVERY, TELEPHONE BOXES. PROVIDE CONNECTIONS TO MECHANICAL, AND PLUMBING EQUIPMENT. PROVIDE REQUIRED DEMOLITION.

1603 MATERIALS <u>CONDUCTORS</u>

ALL WIRE SHALL BE COPPER. WIRE #8 AND LARGER SHALL BE STRANDED.

USE WIRE WITH THHN/THWN INSULATION FOR ALL WIRE. POWER CONDUCTORS SHALL BE #12 AWG MINIMUM. PILOT AND CONTROL CIRCUITS MAY BE #14 AWG.

UNDERGROUND CONDUIT SHALL BE PVC. CHANGE TO RIGID GALVANIZED BELOW CONCRETE FLOOR AND STUB UP

THROUGH FLOOR WITH RIGID GALVANIZED. ARMOR CLAD CABLE SHALL BE ALLOWED IN CONCEALED AREAS.

OTHER ABOVE GRADE CONDUIT SHALL BE EMT WITH STEEL COMPRESSION FITTINGS. IF EXPOSED TO MECHANICAL DAMAGE CONDUIT SHALL BE RIGID GALVANIZED.

CONNECTIONS TO EQUIPMENT AND FIXTURES SHALL BE MADE WITH SEAL TIGHT FLEX CONDUIT FOR EXTERIOR CONNECTIONS AND GREENFIELD FOR INTERIOR CONNECTION.

WIRING DEVICES SHALL BE ONE MAKE, UNDERWRITERS APPROVED, MANUFACTURED BY PASS & SEYMOUR, HUBBELL OR EQUAL. DEVICE COVERS SHALL BE WEATHERPROOF FOR EXTERIOR COVERS. WIRING DEVICES SHALL BE STANDARD GRADE.

COLOR SHALL BE DETERMINED BY THE ARCHITECT. DISTRIBUTION EQUIPMENT SHALL BE THE LATEST PRODUCTS, MANUFACTURER SHALL BE G.E., SQUARE D, WESTINGHOUSE, OR ITE. INTERIOR EQUIPMENT SHALL BE NEMA 1 AND EXTERIOR EQUIPMENT SHALL BE NEMA 3R MINIMUM. COORDINATE WITH POWER COMPANY TO OBTAIN BREAKER KAIC RATINGS. DRAWINGS SHALL INDICATE MINIMUM RATING.

ALL BREAKERS SHALL BE BOLT ON TYPE. MAIN PANEL SHALL BE SERVICE ENTRY RATED AND LABELED. BREAKERS SHALL BE SERIES AND CURRENT LIMITING RATED. PROVIDE MOTOR RATED SWITCHES FOR SWITCHES SERVING MOTORS AS REQUIRED.

FUSES SHALL BE CURRENT LIMITING TIME DELAY FUSES "CLASS RK5". ALL EQUIPMENT AND FIXTURES SHALL BE UL APPROVED. PROVIDE LAMPS FOR ALL FIXTURES. LAMPS SHALL BE G. E., OR SYLVANIA.

UNLESS OTHERWISE NOTED, SET ALL RECEPTACLES SET ALL RECEPTACLES AT 16" AFF TO CENTER OF OUTLET BOX, AND SET ALL SWITCHES AT 48" AFF TO TOP OF OUTLET BOX. ALL OTHER HEIGHTS ARE TO CENTER OF BOX UNLESS NOTED

HOLES SHALL BE DRILLED OR CUT. DO NOT BREAK HOLES. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING AND PAINTING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED UNDER THIS CONTRACT, AND SHALL ESTABLISH ALL FINISHES WHEN CUTTING AND PATCHING OCCUR TO THEIR ORIGINAL CONDITION. QUALIFIED WORKERS SHALL DO ALL CUTTING AND PATCHING WORK (I.E. DRY

WALL CUTTING AND PATCHING SHALL BE DONE BY QUALIFIED DRY WALL CRAFTSMEN) D. PATCHING SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. ALL PATCHING SHALL BE DONE BY A CRAFTSMAN SKILLED

IN THE WORK BEING PERFORMED. E. WIRE SHALL BE COLOR CODED AS FOLLOWS:

> BLACK PHASE A PHASE B RED

PHASE C NFUTRAL WHITE GROUND GREEN

F. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EQUIPMENT AND POWER REQUIREMENTS FOR ALL EQUIPMENT BEFORE RUNNING SERVICE.

G. CONDUIT AND WIRING IN FINISHED AREAS SHALL BE CONCEALED. ANY EXPOSED CONDUIT SHALL BE RUN IN A NEAT

FASHION AND SHALL BE RUN PERPENDICULAR AND PARALLEL TO THE BUILDING LINES. H. TELEPHONE AND COMPUTER OUTLETS SHALL BE DUPLEX RECEPTACLE BOXES WITH 3/4" EMT STUBBED INTO THE CEILING WITH PULL STRINGS INSTALLED.

CONTRACTOR SHALL PRESERVE ALL FIRE RATED WALLS AND CEILINGS. VERIFY RATING WAS OFF THE ARCHITECTURAL PLAN. THIS SHALL INCLUDE USING CAULKING THAT IS UL APPROVED FOR THE APPLICATIONS, OFFSETTING BOXES AS REQUIRED AND PROVIDING RATED CAPS OR COVERS FOR LIGHTS, AS REQUIRED.

DIRECTORY CARDS. NAME PLATES & EQUIPMENT LABELS

PROVIDE A TYPED DIRECTORY CARD IN EACH PANELBOARD INDICATING ELECTRICAL DEVICES OR EQUIPMENT SERVED BY

EACH CIRCUIT BREAKER. FURNISH BLANK COVERPLATE. PROVIDE NAMEPLATES FOR PANELS AND DISCONNECTS. NAMEPLATES SHALL BE LAMINATED PLASTIC. EACH NAMEPLATE SHALL IDENTIFY THE PANEL AND THE VOLTAGE. NAMEPLATES SHALL BE MELAMINE PLASTIC, 0.125 INCH THICK, BLACK WITH WHITE CENTER CORE. SURFACE SHALL BE MATTE FINISH. CORNERS SHALL BE SQUARE. ACCURATELY ALIGN

LETTERING AND ENGRAVE INTO CORE. MINIMUM SIZE OF NAMEPLATES SHALL BE 1X2.5 INCHES. LETTERING SHALL BE A

MINIMUM OF 0.25 INCHES HIGH, NORMAL BLOCK STYLE. TEST & ADJUSTMENTS

A. TEST AND ADJUST THE ELECTRICAL SYSTEM AND RELATED WORK PROVIDED UNDER THIS DIVISION OF THE TEST ALL CIRCUITS WITH A "MEGGER" TEST TO DETERMINE THAT THE SYSTEM IS FREE OF SHORT CIRCUITS AND THAT

A. THE SERVICE EQUIPMENT, CONDUIT SYSTEM SUPPORT CABINETS, EQUIPMENT AND NEUTRAL CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. GROUNDING CONDUCTORS SHALL BE SO ROUTED AS TO PERMIT, AS FAR AS PRACTICAL, THE SHORTEST AND MOST DIRECT PATH TO THE GROUND ELECTRODE SYSTEM. ALL GROUND CONNECTIONS SHALL HAVE A CLEAN CONTACT SURFACE.

PHASE CONDUCTORS ARE NOT GROUNDED. CHECK ALL ELECTRICAL EQUIPMENT FOR PROPER OPERATIONS.

B. RUN A SEPARATE EQUIPMENT GROUND IN ALL FEEDS.

1608 A. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED AND SHALL BE OF THE VERY BEST QUALITY AS

REQUESTS TO SUBSTITUTE OTHER MATERIALS OR PRODUCTS FOR THOSE SPECIFIED SHALL BE SENT IN WRITING TO THE OWNER. REQUESTS SHALL BE ACCOMPANIED BY ENGINEERING DATA, SPECIFICATION SHEETS, ETC., AS NECESSARY TO

FULLY IDENTIFY AND APPRAISE THE PRODUCTS. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF NONCOMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ENGINEER IS CALLED TO THE NONCONFORMING FEATURES BY LETTER

ACCOMPANYING THE SUBMITTAL DATA.

ALL BIDDERS ON THIS WORK SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITION.

1610 SHOP DRAWINGS

FOR HIS APPROVAL.

AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER THE CONTRACT IS SIGNED, THE CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS COVERING LIGHTING FIXTURES, PANELS, CIRCUIT, BREAKERS, AND WIRING DEVICES, AND ANY SPECIAL EQUIPMENT WHICH HE INTENDS TO USE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER

Plotted: 1.29.2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022

LIGHI	ING FIXTURE	= 50	HED	ULE							
SYMB0L	DESCRIPTION				LAMP			MANUF.	MODEL	MOUNTING	REMARKS
SIMBOL	DESCRIPTION	N0.	WATT	LUMENS	TEMP ('K)	TYPE	VOLT	WANOF.	MODEL	MOONTING	ILMAINS
AX	EXISTING TO REMAIN 2'x4' TROFFER	-	30	3, 800	5, 000	LED	120	EXISTING	EXISTING	EXISTING	REWIRE AS REQUIRED.
BR	EXISTING TO BE RELOCATED 2'x4' TROFFER	-	36	4, 500	5, 000	LED	120	EXISTING	EXISTING	CEILING LAY-IN	REWIRE AS SHOWN.
cx	EXISTING FAN/LIGHT	-	13	-	-	LED	120	EXISTING	EXISTING	EXISTING	MAINTAIN ALL CONNECTIONS.
D	6" CAN	-	17	2, 000	3, 000	LED	120	ATLANTIC LIGHTING	LED6-SYL20- 30K-U/6LED10	CEILING RECESSED	-
E	4' LINEAR	-	54	3, 200	-	LED	120	ALCON LIGHTING	12100-23-RGBW- P-4-R54-XX- AC4-XXX	CEILING SUSPENDED	SEE LIGHTING FIXTURE NOTE 3. U.L. DAMP LOCATION
F A	4' LINEAR	-	35	3, 500	3, 000	LED	120	ALCON LIGHTING	12180-4-XX	CEILING SUSPENDED	VERIFY COLOR AND MOUNTING HEIGHT WITH OWNER AND ARCHITECT.
G {	DRUM PENDANT	}-	21	1, 700	3, 000	LED	120	ALLMODERN	SINGLE LIGHT GLASS DIMMABLE LED PENDANT	CEILING SUSPENDED	COORDINATE FIXTURE WITH OWNER. VERIFY MOUNTING HEIGHT.
8	EXIT	ı	-	-	_	-	120	SAYLITE	EZXTEU-1- R-W-EM	WALL OR CEILING SURFACE	-
4_	EMERGENCY	-	_	-	-	_	120	SAYLITE	RMR-16-LED	WALL AT 7'-6" AFF	-

LIGHTING FIXTURE NOTES: 1. CONTRACTOR SHALL PROVIDE ALL LAMPS. ALL LAMPS SHALL BE DIMMABLE LED.

2. CONTRACTOR SHALL COORDINATE WITH FIXTURE/LAMP MANUFACTURE AND PROVIDE COMPATIBLE DIMMERS WHERE REQUIRED.

3. CONTRACTOR SHALL VERIFY COLOR, MOUNTING HEIGHT AND CONTROLS WITH OWNER AND ARCHITECT. FIXTURE SHALL BE MOUNTED A MINIMUM OF 8'-6" TO BOTTOM OF FIXTURE ABOVE SHOWER THRESHOLD OR SPA/TUB RIM.

EQUIPMENT	CONNECTION SCH	EDUL	<b>=</b>								
SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR		FEEDER	CONNECTION	DEMARKS
STMBOL	DESCRIPTION	ПР	NW	AMP	VOLI	PHASE	DNK	COND	WIRE	CONNECTION	REMARKS
HP-2	5 TON HEAT PUMP	_	-	26	208	1	50	34"	2#8, 1#10G	FUSED DISC NEMA 3R	-
AHU-2	AIR HANDLING UNIT	-	10. 8	60	208	1	90	ı	-	FUSED DISC NEMA 1	SEE DETAIL B/EO.2.
DHUM-1	DEHUMIDIFICATION UNIT	_	-	15	240	1	30	½"	2#10, 1#10G	FUSED DISC NEMA 1	-
нwт	HOT WATER TANK	-	9. 0	25	208	3	35	34"	3#10, 1#10G	FUSED DISC NEMA 1	-
Ф ³⁰	DRYER	-	5. 0	24	208	1	30	34"	3#10, 1#10G	30A RECPT	PROVIDE NEUTRAL.
зоф	VITALITY BOOTH	_	-	20	120	1	30	½"	2#10, 1#10G	20A RECPT	VERIFY REQUIREMENTS WITH SUPPLIER.
Ф ₂₀	HYDRAJET	_	_	13	240	1	20	½"	2#12, 1#12G	20A RECPT	VERIFY REQUIREMENTS WITH SUPPLIER.

240

2#8,1#10G

50A RECPT

**EQUIPMENT CONNECTION NOTES:** 1. CONTRACTOR SHALL VERIFY ALL CONNECTIONS BEFORE RUNNING SERVICE OR ORDERING EQUIPMENT.

#### ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE: **ENERGY CODE:** 

✓ PRESCRIPTIVE PERFORMANCE ASHRAE 90.1 PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE - SEE PLANS NUMBER OF LAMPS IN FIXTURE - SEE PLANS BALLAST TYPE USED IN THE FIXTURE - SEE PLANS

NUMBER OF BALLASTS IN FIXTURE - SEE PLANS TOTAL WATTAGE PER FIXTURE - SEE PLANS TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED - SPECIF LED=1, 047 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED - N/A

ADDITIONAL PRESCRIPTIVE COMPLIANCE:

406.2 MORE EFFICIENT MECHANICAL EQUIPMENT

406. 4 ENHANCED DIGITAL LIGHTING CONTROLS

406.5 ON-SITE RENEWABLE ENERGY

406.6 DEDICATED OUTDOOR AIR SYSTEM

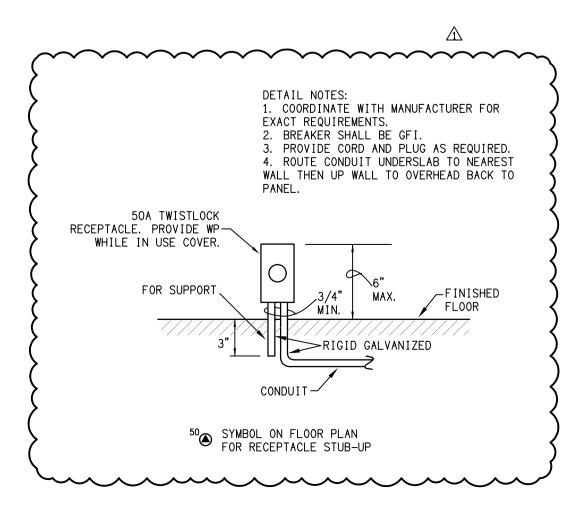
406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNERS STATEMENT

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE THERMAL ENVELOPE REQUIREMENTS OF THE LATEST NORTH CAROLINA STATE ENERGY CODE.

<u>. CHRISTOPHER M. LIPPINCOTT, PE</u>

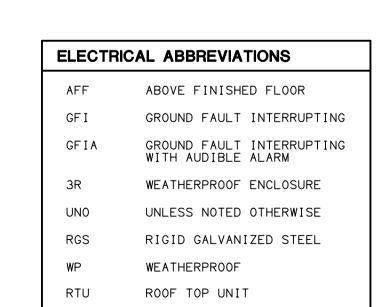
. ENGINEER



SEE DETAIL A/EO. 1.

**Receptacle Mounting Detai** 

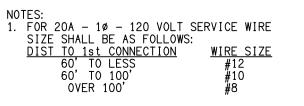
#### ELECTRICAL LEGEND CEILING OUTLET WITH LED OR FLUORESCENT FIXTURE WALL OUTLET WITH LED OR FLUORESCENT FIXTURE CEILING OUTLET WITH LED OR FLUORESCENT FIXTURE SWITCH, SINGLE POLE, 120VAC, MOUNTED AT 48" AFF TO TOP OF SWITCH, THREE WAY, 120VAC, MOUNTED AT 48" AFF TO TOP OF 30A SWITCH, SINGLE POLE, 120VAC, MOUNTED AT 48" AFF TO TOP OF DUAL TECH OCCUPANCY SENSOR WITH ON/OFF SWITCH, 120VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX, SENSORWORX SWX-121 DUAL TECH OCCUPANCY SENSOR WITH ON/OFF SWITCH, LOW VOLTAGE, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX, SENSORWORX SWX-121-1-MS OR EQUAL DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND ON/OFF SWITCH, 120VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX, SENSORWORX SWX-121-D OR EQUAL DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND ON/OFF SWITCH, LOW VOLTAGE, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX, SENSORWORX SWX-121-1-D-MS OR EQUAL TIMER SWITCH WITH 2 HOUR MAX TIME LIMIT, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX 250V TWO POLE SWITCH, MATCH AMP RATING OF EQUIPMENT BREAKER SLIDE DIMMER WITH ON/OFF SWITCH, SINGLE POLE, 120VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX DUAL TECH OCCUPANCY SENSOR, LOW VOLTAGE, CEILING MOUNT, SENSORWORX SWX-222-1 OR EQUAL DUAL TECH OCCUPANCY SENSOR, LOW VOLTAGE, CEILING MOUNT, SENSORWORX SWX-222-1-HE OR EQUAL POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS, SENSORWORX SWX-900-AX OR EQUAL DUPLEX CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX, UNO 15A DUPLEX CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX, UNO NEMA 5-20 RECEPTACLE, 120V, MOUNTED AT EQUIPMENT, COORDINATE WITH EQUIPMENT SUPPLIER FOR RECEPTACLE TYPE 30A RECEPTACLE, 120VAC, MOUNTED AT EQUIPMENT, COORDINATE WITH EQUIPMENTS SUPPLIER FOR RECEPTACLE TYPE, PROVIDE CORD & PLUG QUAD CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX, UNO 20A RECEPTACLE, 250V, SINGLE PHASE, MOUNTED AT EQUIPMENT, COORDINATE EXACT MOUNTING LOCATION AND RECEPTACLE TYPE WITH OWNER AND EQUIPMENT SUPPLIER, PROVIDE NEUTRAL EQUIPMENT CONNECTION, COORDINATE CONNECTION WITH EQUIPMENT CONNECTION SCHEDULE CONVENIENCE RECEPTACLE, 120V, FLOOR MOUNT, COVER FLUSH WITH FINISHED FLOOR, COVER SHALL BE NON-METALLIC FLOOR MOUNT PHONE/DATA OUTLET, COVER FLUSH W/ FINISH FLOOR PHONE OUTLET, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX DATA OUTLET, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX PHONE/DATA OUTLET, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX JUNCTION BOX TV CONNECTION, VERIFY REQUIREMENTS, MOUNT AT +18" AFF UNO ELECTRICAL PANEL, SURFACE ELECTRICAL PANEL, FLUSH DISCONNECT SWITCH, FUSIBLE



PHONE/CATV PANEL, 4x8x34 PLYWOOD WITH #6 INSUL. GROUND IN 34"

FAN BY MECHANICAL CONTRACTOR

CONDUIT TO ELEC. SYSTEM GROUND



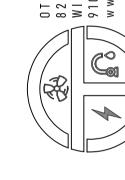
OCCUPANCY SENSOR NOTES: 1. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES INCLUDING WALL PLATES AND LOW VOLTAGE WIRING. 2. CONTRACTOR SHALL COORDINATE EXACT QUANTITIES OF POWER PACKS AND CEILING SENSORS WITH MANUFACTURER.



SEAL

026003 01/26/2024

, PLLC 0 SOUN 28409 N G , O R ( N C  $_{5} \Sigma Z$  $\frac{N}{2} \approx \frac{N}{2}$ 01 82 82 82 87 87



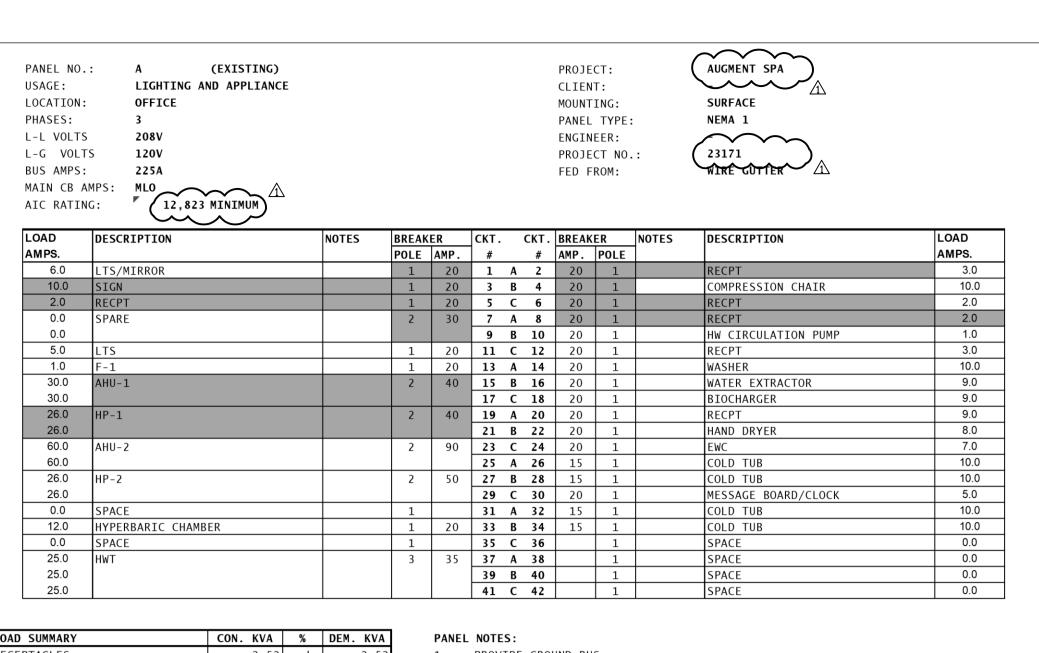
an SF Br ENT 00 Φ Y O O O

o r` hit sig U U Aٍ



SHEET TITLE - NUMBER

Electrical Legend Schedules and Specifications



LOAD SUMMARY	CON. KVA	%	DEM. KVA
RECEPTACLES	2.52	code	2.52
MISC	13.32	100%	13.32
LIGHTING	2.52	125%	3.15
HVAC	8.2308	100%	8.2308
HEAT STRIP	18.72	100%	18.72
REFRIGERATION	0	65%	0
KITCHEN	0	65%	0
COOKING	0	65%	0
WATER HEATING	9	100%	9
	0	0%	0
TOTAL KVA	54 KVA		55 KVA
TOTAL AMPS	151 AMPS		153 AMPS

13.0

13.0

0.0

TOTAL KVA

TOTAL AMPS

0.0 SPARE

81 AMPS

81 AMPS

<b>PANEL</b>	NOTES:	
1	DDOVITOE	CDC

1 . PROVIDE GROUND BUS

2 . PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE 3 . LO - INDICATES C.B. EQUIPPED WITH "LOCK-OUT" DEVICE

4 . GFI - INDICATES C.B. IS GFI TYPE (30 mA FOR EQUIPMENT, 5 mA FOR PERSONNEL)

5 . ST- INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE 6 . IG - INDICATES CIRCUIT SHALL INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR

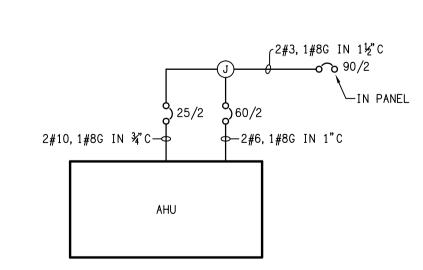
10	T.14	DICAL	LJ CI	ICOT I	JIIALL	THELOD	L ADD	TITOMAL	IJOLATED	ditoon	CONDUCTOR	`	
$\Delta FCT$	_	TNDTC	ΔTFS	COMBIN	NOTTAL	TYPE A	FCT C	R					
AI CI		THUTC	AILS	COMBIN	ALION	11112	11 C1 C						

PANEL NO.	: SB LIGHTING AND	ADDI TANCE					PROJE		(	AUGMENT SPA	
LOCATION:		AFFLIANCE					CLIEN			SURFACE	
PHASES:	1						PANEL			NEMA 1	
L-L VOLTS	240V						ENGIN	EER:		$\sim\sim$	
L-G VOLT	S <b>120V</b>						PROJE	CT NO.	: (	23171	
BUS AMPS:	225A						FED F	ROM:	•	lacksquare	
MAIN CB A	MPS: <b>110A</b>										
AIC RATIN	IG: 10,000 M	INIMUM									
LOAD	DESCRIPTION	NOTES	BREAK	ŒR	CKT.	CKT.	BREAK	ER	NOTES	DESCRIPTION	LOAD
AMPS.			POLE	AMP.	#	#	AMP.	POLE	]		AMPS.
13.0	HYDRAJET		2	20	1	A 2	30	2		DHUM-1	15
13.0	1			1	2	D 1		l		1	1 15

LOAD SUMMARY	CON. KVA	%	DEM. KVA	PANEL NOTES:
RECEPTACLES	0	code	0	1 . PROVIDE GROUND BUS
MISC	15.84	100%	15.84	2 . PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE
LIGHTING	0	125%	0	3 . LO - INDICATES C.B. EQUIPPED WITH "LOCK-OUT" DEVICE
HVAC	3.6	100%	3.6	4 . GFI - INDICATES C.B. IS GFI TYPE (30 mA FOR EQUIPMENT, 5 mA FOR PERSO
HEAT STRIP	0	100%	0	5 . ST- INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE
REFRIGERATION	0	65%	0	6 . IG - INDICATES CIRCUIT SHALL INCLUDE ADDITIONAL ISOLATED GROUND CONDUC
KITCHEN	0	65%	0	7 . AFCI - INDICATES COMBINATION TYPE AFCI C.B.
COOKING	0	65%	0	
WATER HEATING	0	100%	0	
-	0	0%	0	

9 A 10

**11 B 12** 20 1



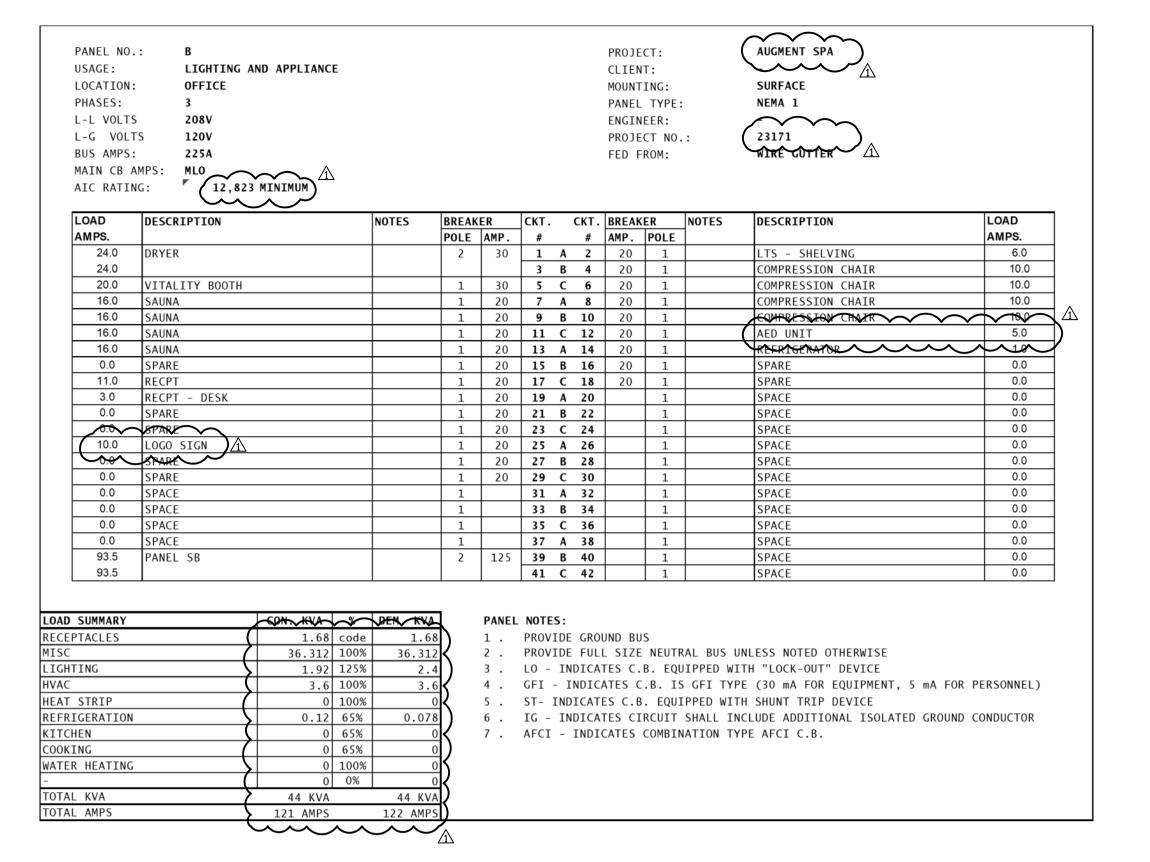
40.0

40.0

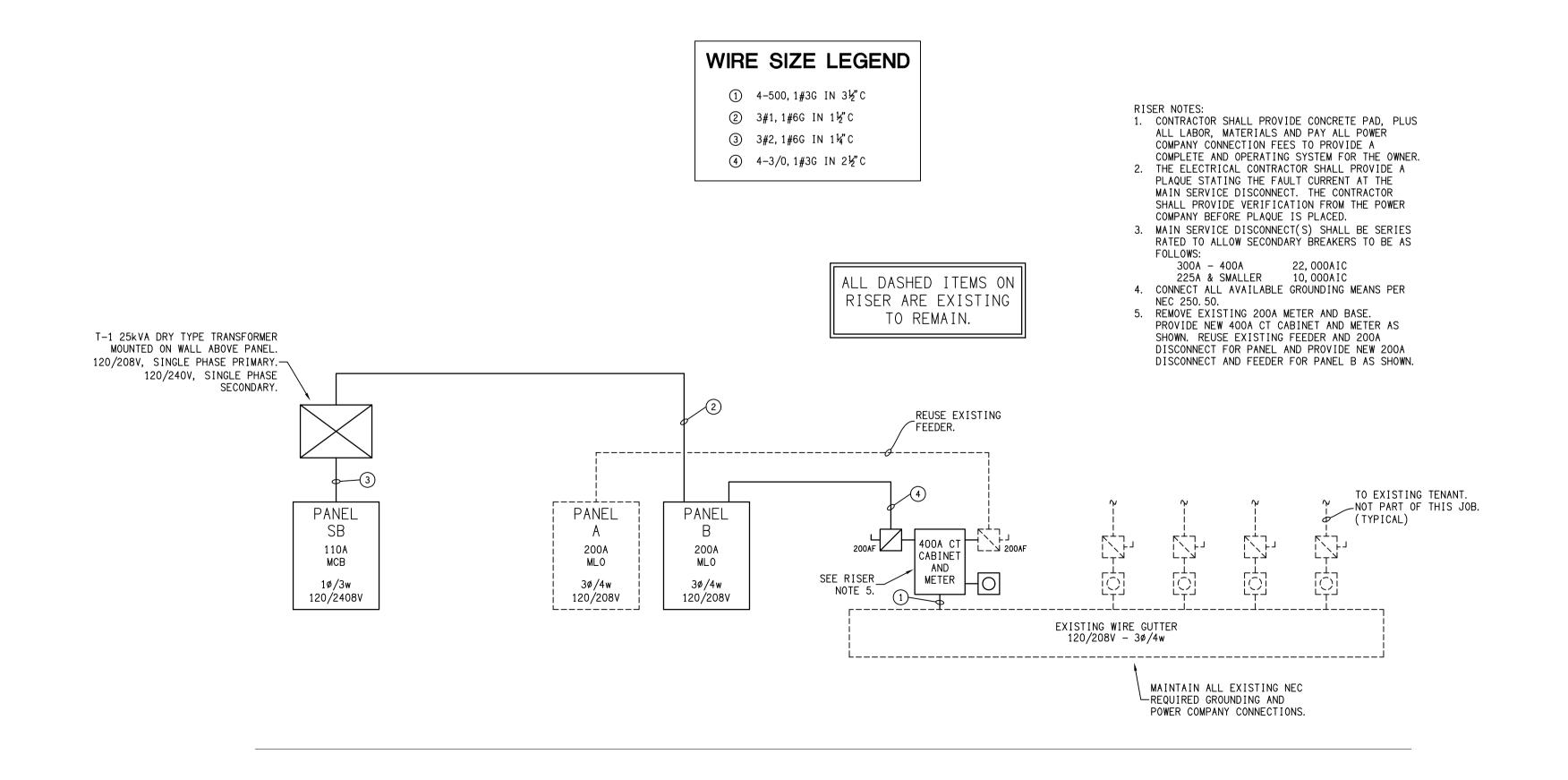
0.0

0.0

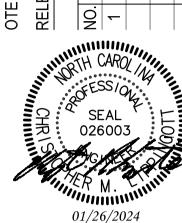
В	Electrical Connection Detail - AHU-2
E0.2	Scale: NTS



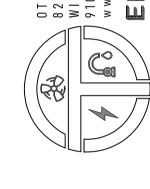
ALL SHADED ITEMS IN PANEL SCHEDULES ARE EXISTING TO REMAIN





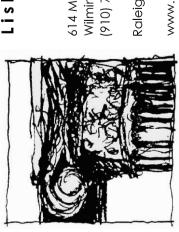


NGINEERING, PLLC MASONBORO SOUND IINGTON, NC 28409 517 0641



Ř SPA Branch AUGMENT (2457 Gum | Suite 1700 Jacksonville

o Ľ hit sig Arc

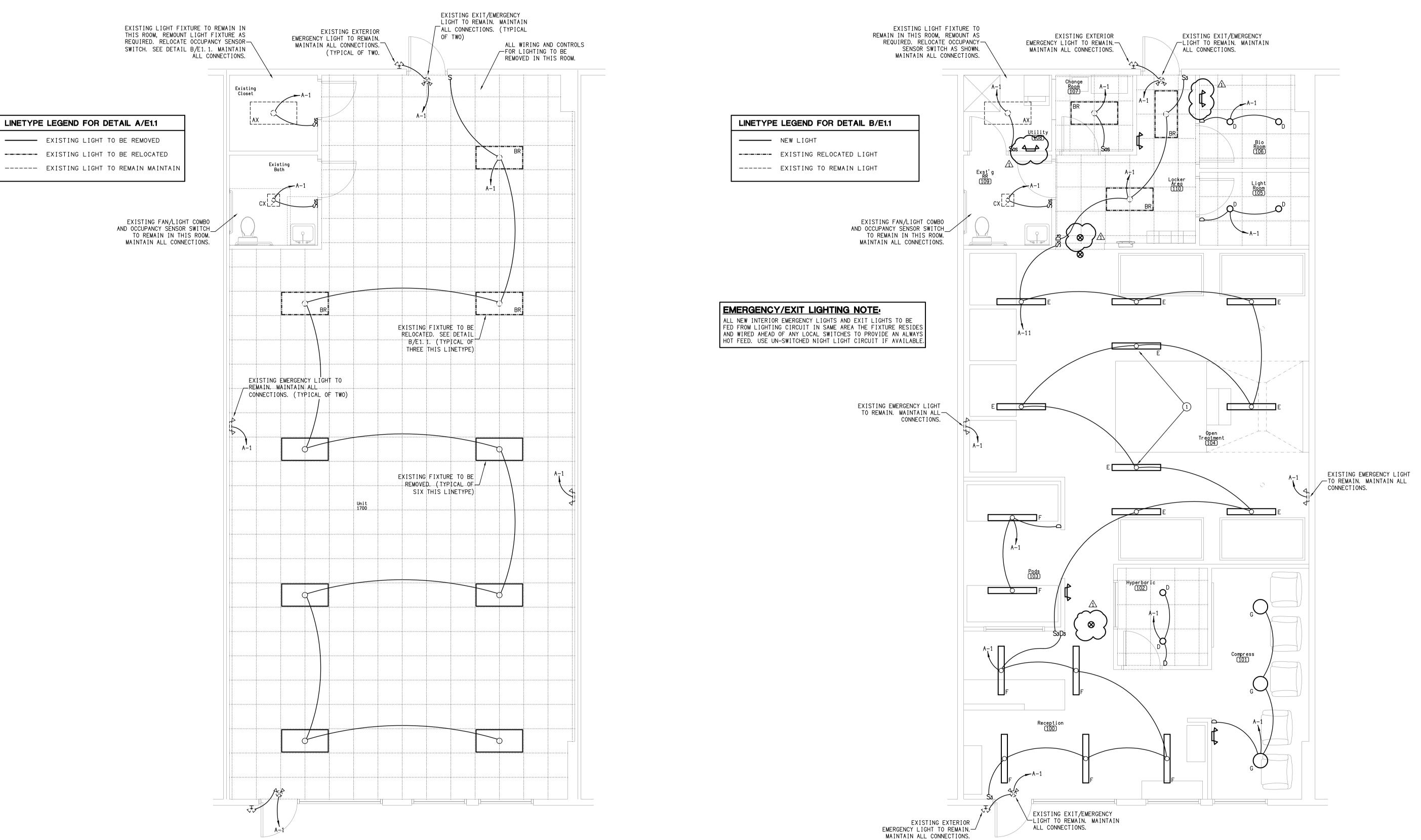


SHEET TITLE - NUMBER

Panel Schedules and Electrical Riser

__A__ Electrical Riser E0.3 Scale: NTS





**KEY NOTES** 

CONTRACTOR SHALL FIELD VERIFY MOUNTING HEIGHT OF FIXTURE. IF FIXTURE CAN BE MOUNTED AT 12'-0" ABOVE HIGHEST WATER

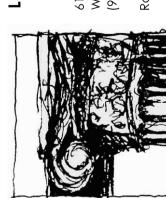
LEVEL OF SPA THEN FIXTURE CAN BE LOCATED ABOVE SPA AND ONE FIXTURE CAN BE REMOVED.

SEAL

01/26/2024 OT ENGINEERING, PLLC
8208 MASONBORO SOUND
WILMINGTON, NC 28409
910.617.0641
www.otmep.com

AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 28540

Architec Design,

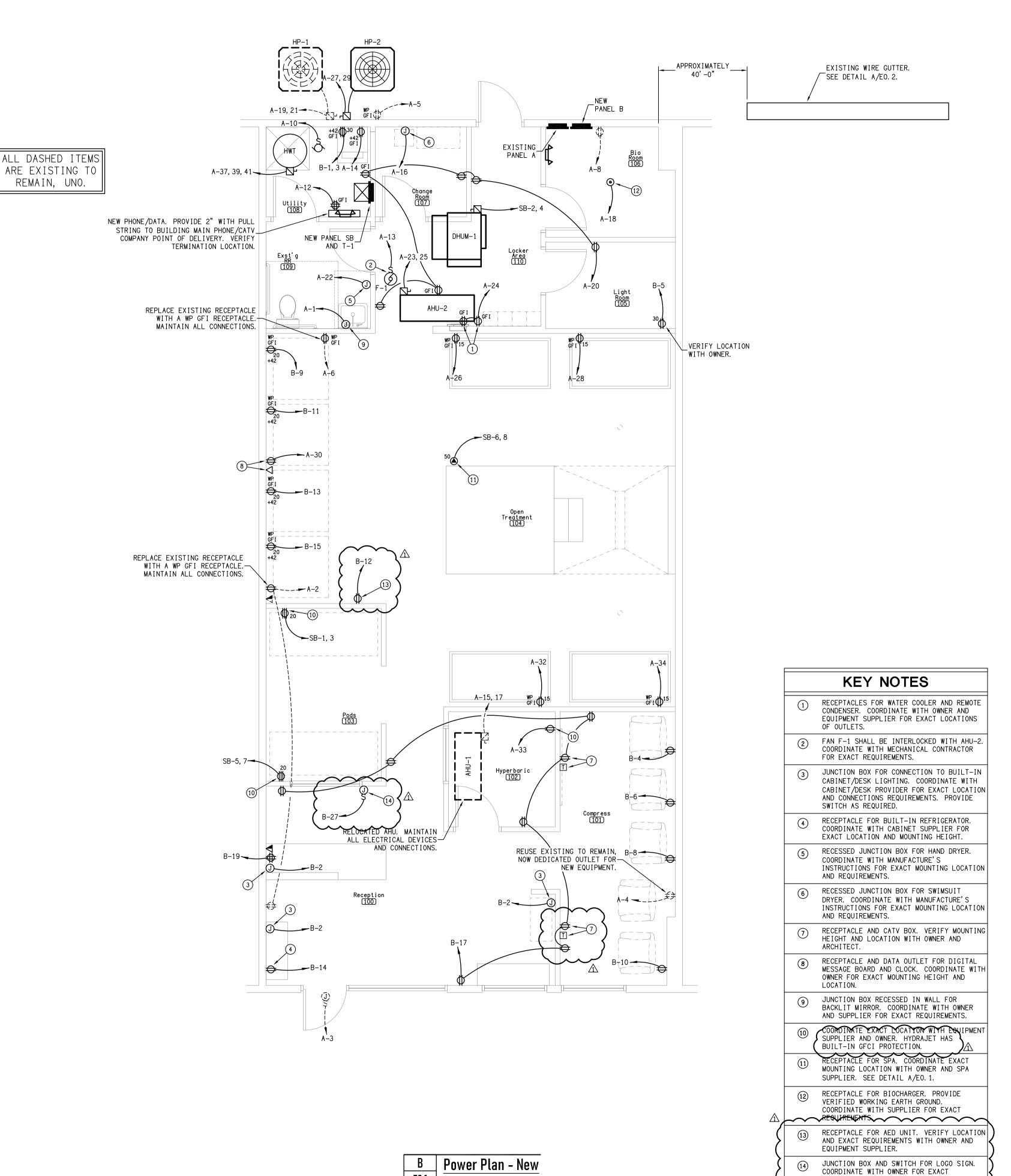


**SHEET TITLE - NUMBER** 

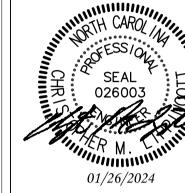
Lighting Plans

Plotted: 1.29,2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022





**E2.1** Scale: 1/4" = 1'-0"

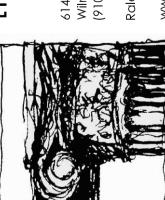


01 ENGINEERING, PLLC
8208 MASONBORO SOUND RD
WILMINGTON, NC 28409
910.617.0641
www.otmep.com



AUGMENT SPA 2457 Gum Branch Rd. Suite 1700 Jacksonville, NC 2854(

sle Architectur
& Design, Inc
Market Street
mington, NC 28401



SHEET TITLE - NUMBER

Power Plans

REQUIREMENTS AND LOCATION.

E2.1

Plotted: 1.29.2024 THIS DRAWING IS THE LEGAL PROPERTY OF LISLE ARCHITECTURE AND DESIGN, INC. AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ARCHITECT - COPYRIGHT 2022

EXISTING HWT TO BE REMOVED.

WIRING BACK TO PANEL. FIELD VERIFY EXACT LOCATION.

REMOVE ALL ASSOCIATED
ELECTRICAL DEVICES AND

Existing Closet

REPLACE EXISTING RECEPTACLE
WITH A WP GFI RECEPTACLE.

A-15, 17

REWIRE AS REQUIRED.

EXISTING_ PANEL A

EXISTING AHU TO BE RELOCATED. RELOCATE ALL

Unit 1700

__A___ Power Plan - Demolition

**E2.1** Scale: 1/4" = 1'-0"

ASSOCIATED ELECTRICAL DEVICES AND CONNECTIONS.

EXISTING RECEPTACLE TO BE REMOVED. MAINTAIN INTEGRITY OF CIRCUIT FOR EXISTING TO

REMAIN DEVICES ON THE SAME

A-4 —----