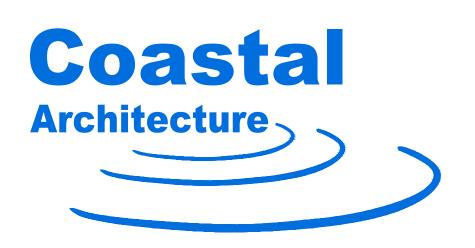
DERMATOLOGY ASSOCIATES OF COASTAL CAROLINA MOREHEAD CITY, NORTH CAROLINA

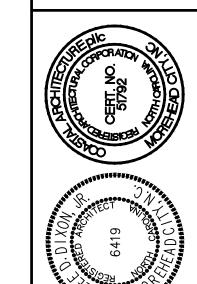
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DRAWING LIST

CS-1	COVER SHEET
G-1 G-2	GENERAL DATA LIFE SAFETY PLAN
EX-1 EX-2 EX-3	EXISTING FLOOR PLAN EXISTING RCP EXISTING OUTLOOK PLAN
D-1	DEMOLITION PLAN
A-1 A-2	FLOOR PLAN REFLECTED CEILING PLAN
P-1 P-2 P-3	PLUMBING SPECS & DETAILS DEMO PLUMBING PLAN PROPOSED PLUMBING PLAN & RISERS
M-1 M-2 M-3	HVAC SPECS & DETAILS DEMO HVAC PLAN PROPOSED HVAC PLAN
E-1 E-2 E-3 E-4 E-5 E-6	ELECTRICAL SPECS & DETAILS EXISTING LIGHTING PLAN PROPOSED LIGHTING PLAN EXISTING POWER PLAN PROPOSED POWER PLAN ELECTRICAL PANELS & RISERS



ne Drawings. Specifications and other documents prepared by Coastal Architectur spect to this project and, unless otherwise provided, the Designer shall be leemed the author of these documents and shall retain all common law, statu and other reserved rights, including copyright protection. The Owner shall be rmitted to retain copies of the Designer's drawings, Specifications, and other upancy of this project. No portions in part or in whole of the Drawings ifications and other documents shall be duplicated or used by the Owner thers for additions to this Project, completion of this Project by others, or on ther Projects without written consent by the Designer.



COVER SHEET

2500 KD BY: LDD

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: DERMATOLOGY ASSOCIATES OF COASTAL CAROLINA							
	Address: MOREHEAD CITY, NORTH CAROLINA Zip Code 28557						
Owner/Author	rized Agent: <u>MARK_KEANE</u>	Phone # (<u>41</u>	<u>0</u>) <u>227</u> - <u>00</u>	055_ E-Mail_KEANEMARK@GMAIL.COM			
Owned By:	City/County		□St	tate			
Code Enforce	ment Jurisdiction: 🔀 City_MOF	REHEAD CITY	Cou	unty State			
CONTACT:							
DESIGNER	FIRM	NAME	LICENSE #	 TELEPHONE # E-MAIL			
Architectural	Coastal Architecture	Lee Dixon	6419	(252) 247-2127lee@coastalarchitecture.r			
Civil				(
Electrical	Burke Design Group	Ben Burke	22038	(919) 771-1916 benburke@nc.rr.com			
Fire Alarm	Burke Design Group	Ben Burke		(919) 771-1916 benburke@nc.rr.com			
Plumbing	Burke Design Group	Ben Burke		(919) 771-1916 benburke@nc.rr.com			
Mechanical	Burke Design Group	Ben Burke	22038	(919) 771-1916 benburke@nc.rr.com			
Sprinkler-Star	nd <u>pipe</u>			_()			
Structural				_()			
Retaining Wal	lls > 5 feet High			_()			
Other			_	_()			
("Other" sho	ould include firms and individuals	such as truss, precast, pr	re-engineered, ir	nterior designers, etc.)			
2019 NC PUII	LDING CODE: New Buildi	ina Shell/Core	☐ 1st T	Time Interior Completions			
2018 NC BUII	Addition		. ۱۹۲۰ ت Instruction—Sl	·			
2018 NC EXIS	STING BUILDING CODE:			eration Level I Historic Property			
(check all that		Repair	<u> </u>	eration Level II			
`	11 7/	☐ Chapter 14	_	eration Level III			
CONSTRUC	CTED: (date)	CURRENT USE(S) (Ch		5.10115			
RENOVATE	ED: (date)	PROPOSED USE(S) (C		DUIGINIEGO			
OCCUPANCY	Y CATEGORY (Table 1604.5): Cu	urrent:	Propose	sed:			
BASIC BUILD	DING DATA						
Construction		□ II-A	∏ III-A	□ IV □ V-A			
(check all that	=	☐ II-B	☐ III-B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Sprinklers:	No Partial	☐ NFPA 13	□ III B				
Standpipes			□Wet	Dry			
Primary Fire	-		ا ۱۳۰۰ ed Hazard Area:	<u> </u>			
-	ections Required: No		u Hazalu Alea.	. 🔼 103			
Special Ilispe	ections Required.	GROSS BUILDIN	NG ARFA TARI	I F			
Floor	Existina (sa ft)	New (sa ft)	Subtota	 al			
3rd Floor	• • • • • • • • • • • • • • • • • • • •	· · /					
2nd Floor							
Mezzanine							
1st Floor	1,753 (TENA	ANT SPACE)	_				
Basement		_					
TOTAL	1 757						
	1,753						

Primary Occupancy C			ALLOWABLE	AREA		
· ·····a. y o o o a panio y o	Classification(s):	_	_	_	_	
Assembly	∐ A-1	A-2	∐ A-3	∐ A-4	∐ A-5	
Business						
Educational	—	_				
Factory	F-1 Moderate				_	
Hazardous		=		oust H-4 Health]H-5 HPM	
Institutional		☐ I-2	∐ I-3	∐ I-4		
I-3 Condit						
I-2 Condit			_			
I-3 Condit	tion 1 2	∐3 ∐	4 📙 5			
Mercantile				— -		
Residential	□R-1	☐ R-2	∐ R-3	∐ R-4		
Storage	S-1 Modera		S-2 Low	∐ High-pile		
	Parking Gar	ageOpen	Enclosed	☐ Repair C	Sarage	
Utility and M	/liscellaneous					
Accessory Occupano	cy Classification(s):					
Incidental Uses (Table	•					
This separation	is not exempt as a N	lonseparated L	Jse (see exceptio	ns).		
Special Uses (Chapte	er 4 – List Code Sec	tions):		,		
Special Provisions: (6 Mixed Occuupancy: Non-separated Use	▼ No Yes Se (508.3)	eparation:		Hr. Exception:		
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a lal floor area of each a of Occupancy A	eparation: area calculatior use divided by Actual A	ns for each story, the allowable flo	Hr. Exception: the area of the occur or area for each use	upancy shall be such th	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a aal floor area of each	eparation: area calculatior use divided by Actual A	ns for each story, the allowable flo	Hr. Exception: the area of the occur or area for each use	upancy shall be such th	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a lal floor area of each a of Occupancy A	eparation: area calculation use divided by -+ <u>Actual A</u> Allowable	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le$	upancy shall be such th e shall not exceed 1.	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a lal floor area of each a of Occupancy A	eparation: area calculation use divided by -+ <u>Actual A</u> Allowable	ns for each story, the allowable flo	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le$	upancy shall be such th	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a lal floor area of each a of Occupancy A	eparation: area calculation use divided by -+ <u>Actual A</u> Allowable	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le$	upancy shall be such th e shall not exceed 1.	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Area	No Yes So (508.3) 3.4)—See below for a lal floor area of each a of Occupancy A	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le$	upancy shall be such th e shall not exceed 1.	at the sum (D) ALLOW AREA PER S
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Are Allowable Ar	No Yes So (508.3) 3.4)—See below for a last floor area of each a of Occupancy A rea of Occupancy A DESCRIPTION	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le $ $= \le $ (B) TABLE 506.2	upancy shall be such the shall not exceed 1. 1.00 (C) AREA FOR FRONTAGE	
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Are Allowable Ar	No Yes So (508.3) 3.4)—See below for a last floor area of each a of Occupancy A rea of Occupancy A DESCRIPTION	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le $ $= \le $ (B) TABLE 506.2	upancy shall be such the shall not exceed 1. 1.00 (C) AREA FOR FRONTAGE	at the sum (D) ALLOW AREA PER S
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Are Allowable Ar	No Yes So (508.3) 3.4)—See below for a last floor area of each a of Occupancy A rea of Occupancy A DESCRIPTION	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le $ $= \le $ (B) TABLE 506.2	upancy shall be such the shall not exceed 1. 1.00 (C) AREA FOR FRONTAGE	at the sum (D) ALLOW AREA PER S
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Are Allowable Ar	No Yes So (508.3) 3.4)—See below for a last floor area of each a of Occupancy A rea of Occupancy A DESCRIPTION	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le $ $= \le $ (B) TABLE 506.2	upancy shall be such the shall not exceed 1. 1.00 (C) AREA FOR FRONTAGE	at the sum (D) ALLOW
Special Provisions: (0 Mixed Occuupancy: Non-separated Use Separated Use (508 of the ratios of the actu Select one Actual Are Allowable Ar	No Yes So (508.3) 3.4)—See below for a last floor area of each a of Occupancy A rea of Occupancy A DESCRIPTION	eparation: area calculatior use divided by +Actual \(\text{Allowable} \) _+ BLD PER	ns for each story, the allowable flo Area of Occupant Area of Occupa	Hr. Exception: the area of the occur or area for each use $\frac{cy B}{ncy B} \qquad 1 \le $ $= \le $ (B) TABLE 506.2	upancy shall be such the shall not exceed 1. 1.00 (C) AREA FOR FRONTAGE	at the sum (D ALLOW AREA PER S

ENERGY SUMMARY	
ENERGY REQUIREMENTS: The following data shall be considered minimum and any energial attribute require	d to most the spergy ends shall also be provided. For
The following data shall be considered minimum and any special attribute require Designer shall furnish the required portions of the project information for the plan	
cost for the standard reference design versus the annual energy cost for the prop	
Existing building envelope complies with code: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	is section is not applicable.)
Exempt Building: Provide code or statutory reference:	
Climate Zone: ☐3A ☐4A ☐5A	
Method of Compliance:	
Energy Code: Performance Prescriptive	
ASHSAE 90.1: Performance Prescriptive	
Other: Performance (specify source)	
Cultinitian in a marinian (appearly accuracy)	~
THERMAL ENVELOPE: (Prescriptive method only)	^
Roof/ceiling Assembly (each assembly)	
Description of assembly:	
U-Value of total assembly:	
R-Value of insulation:	
Skylights in each assembly:	
U-Value of skylight:	
total square footage of skylights in each assembly:	
Exterior Walls (each assembly)	
Description of assembly	
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:	

	(SEE ALSO S1.1)
DESIGN LOADS:	,
Importance Fact	ors: Wind (IW)
'	Snow (IS)
	Seismic (IE)
Live Loads:	Roofpsf
	Mezzanine psf
	Floorpsf
Ground Snow L	Load: psf
Wind Load:	Basic Wind Speed mph (ASCE-7)
	Exposure Category
SEISMIC DESIGN CAT	
SEISMIC DESIGN CAT	
	EGORY:
Provide the following Se	EGORY: □A□B□C□L eismic Design Parameters:
Provide the following Se Occupancy Cate	EGORY: ABCCCC eismic Design Parameters: egory (Table 1604.5
Provide the following Se Occupancy Cate Spectral Respo	eismic Design Parameters: egory (Table 1604.5)
Provide the following Se Occupancy Cate	eismic Design Parameters: egory (Table 1604.5) I III IIV ense Acceleration SS %g S1 %g en (ASCE 7) A B C D E F
Provide the following Se Occupancy Cate Spectral Respo Site Classification	eismic Design Parameters: egory (Table 1604.5)
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structura	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structura	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structura	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Secondary Cate Spectral Responsite Classification Basic structura Bearing Woment Free Moment Free Cate Secondary	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Secondary Cate Spectral Responsite Classification Basic structura Bearing Woment From Moment From Analysis Proced	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Secondary Cate Spectral Responsite Classification Basic structura Bearing Walling Fram Moment Fram Analysis Proced Architectural, Marchitectural, March	eismic Design Parameters: eggry (Table 1604.5)
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structura Bearing W. Building Fr Moment Fr Analysis Proced Architectural, M	eismic Design Parameters: egory (Table 1604.5)
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structura Bearing W. Building Fr Moment Fr Analysis Proced Architectural, M LATERAL DESIGN CO	eismic Design Parameters: egory (Table 1604.5)
Occupancy Cate Spectral Respo Site Classificatio Basic structura Bearing Walling From Moment From Analysis Proced Architectural, Material Design Co SOIL BEARING CAPA Field Test (provi	eismic Design Parameters: egory (Table 1604.5)

d. W = Minimum width of public way = ____

2. Unlimited area applicable under conditions of Section 507.

5. Frontage increase is based on the unsprinklered area value in Table 506.2.

3. Maximum Building Area = total number of stories in the building × D (maximum 3 stories) (506.2).

4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	EXISTING	EXIST	
Building Height in Stories (Table 504.4)			

FIRE		RATING		DETAIL #	DE01011 #		CUEET #
BUILDING ELEMENT	SEPARATION DISTANCE (feet)	REQ'D	PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATE JOINTS
Structural Frame Including columns, girders, trusses	0	0	0				
Bearing Walls							
Exterior							
North							
East							
West							
South							
Nonbearing walls and partitions				\leftarrow	Y		
Exterior walls			_		1		
North	>30'	0	10	7			
East	>30'	0					
West	>30'	0 _		•			
South	>30'	0)				
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0, -	0				
Floor Ceiling Assembly	7 .	0	0				
Columns Supporting Floors	V	0	0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures—Exit							
Shaft Enclosures—Other							
Corridor Separation		0	0				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation		EXISTING					
Incidental Use Separation							

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT winter dry bulb: summer dry bulb: Interior design conditions

summer dry bulb:

Building cooling load:

description of unit heating efficiency: _____ cooling efficiency: size category of unit: _

Size category. If oversized, state reason.: Size category. If oversized, state reason.:

Method of Compliance:

Additional Prescriptive Compliance 506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation Systems 506.2.4 Higher Efficiency Service Water Heating 506.2.5 On-Site Supply of Renewable Energy

ALLOWABLE HEIGHT						
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE			
Building Height in Feet (Table 504.3)	EXISTING	EXIST				
Building Height in Stories (Table 504.4)						

ALLOWABLE HEIGHT								
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE					
ng Height in Feet (Table 504.3)	EXISTING	EXIST						
g Height in Stories (Table 504.4)								
ide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.								

FIRE PROTECTION REQUIREMENTS							
	FIRE	RATING		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	0	0	0				
Bearing Walls							
Exterior							
North							
East							
West							
South				_			
				\leftarrow			
Nonbearing walls and partitions Exterior walls				こノノ)		
North	> 70'	0		\rightarrow			
East	>30'	0		7		+	
West	>30'	0	\bigcirc				
South	>30'	0				-	
Interior walls and partitions	<u>>30'</u>		, ₀ ,			-	
Floor Construction			/				
Including supporting beams and joists	/		0				
Floor Ceiling Assembly	7 .	0	0				
Columns Supporting Floors	V	0	0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures—Exit							
Shaft Enclosures—Other							
Corridor Separation		0	0				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation		EXISTING	_				
ncidental Use Separation							
		•			-	-	

MECHANICAL SUMMARY

winter dry bulb:

Mechanical Spacing Conditioning System

List equipment efficiencies: _____

ELECTRICAL DESIGN

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture ELECTRICAL number of ballasts in fixture

total wattage per fixture total interior wattage specified versus allowed (whole building or space by space) total exterior wattage specified versus allowed

506.2.6 Automatic Daylighting Control Systems

THESE DRAWING AND SPECIFICATIONS REPRESENT AN INSTRUMENT OF SERVICE AND AS SUCH SHALL REMAIN IN OWNERSHIP WITH THE ARCHITECT. USE OR REPRODUCTION BY ANY MEANS, IN WHOLE OR IN PART, WITHOUT THE ARCHITECT'S WRITTEN CONSENT, IS PROHIBITED.

PERCENTAGE OF WALL OPENING CALCULATIONS

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

LIFE SAFETY SYSTEM REQUIREMENTS

		LIFE SAFE IY
ergency Lighting:	XYes □No	
: Signs:	XYes □No	
Alarm:	XYes □No	
oke Detection Systems:	☐Yes ⊠ No	
bon Monoxide Detection	:∐Yes ⊠ No	

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: _____G-2

Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) X Exterior wall opening area with respect to distance to assumed property lines (705.8)

Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area Exit access travel distances (1017)

Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1)]

Dead end lengths (1020.4)

Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

 ★ Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices

Location of emergency escape windows (1030) The square footage of each fire area (202)

The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

			(SECTIO	14 1107)			
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
		NI / A					
		TV / A	,				

ACCESSIBILE PARKING

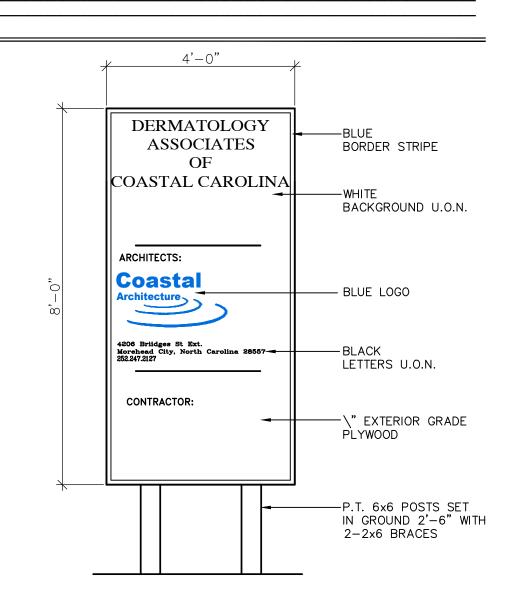
			(SECTION 1106)				
	TOTAL # OF PA	RKING SPACES	# OF AC				
LOT OR				VAN SPA	VAN SPACES WITH		
PARKING AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	- ACCESSIBLE PROVIDED	
	-	XISTI	NG				
TOTAL							

PLUMBING FIXTURE REQUIREMENTS

USE	W	/ATERCLOSE	тѕ	URINALS		LAVATORIES		SHOWERS/	DRINKING FOUNTAINS	
USE	Male	Female	Unisex	UNINALS	Male	Male Female		TUBS	Regular	Accessible
REQ'D (BLDG)										
PROVIDED (BLDG)										
REQ'D (POOL)			N/A							
PROVIDED (POOL)										

SPECIAL APPROVALS

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





NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.



- Architectural Design
- Planning



Institute of Architects

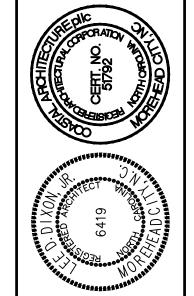
Lee D. Dixon, Jr., AIA 252-247-2127

4206 Bridges St. Ext. Suite C Morehead City, NC

28557

www.CoastalArchitecture.ne

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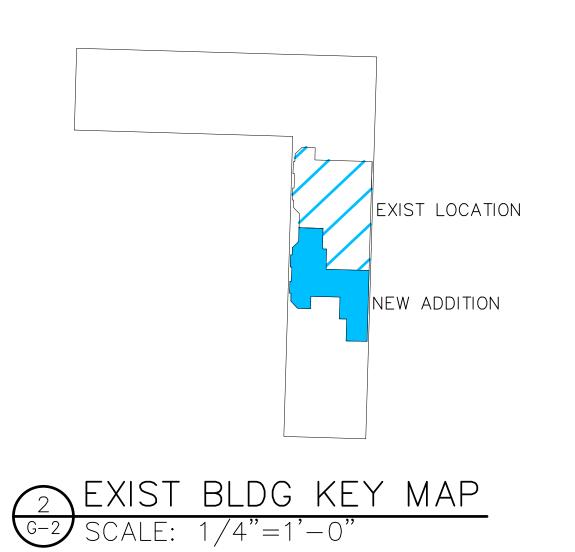


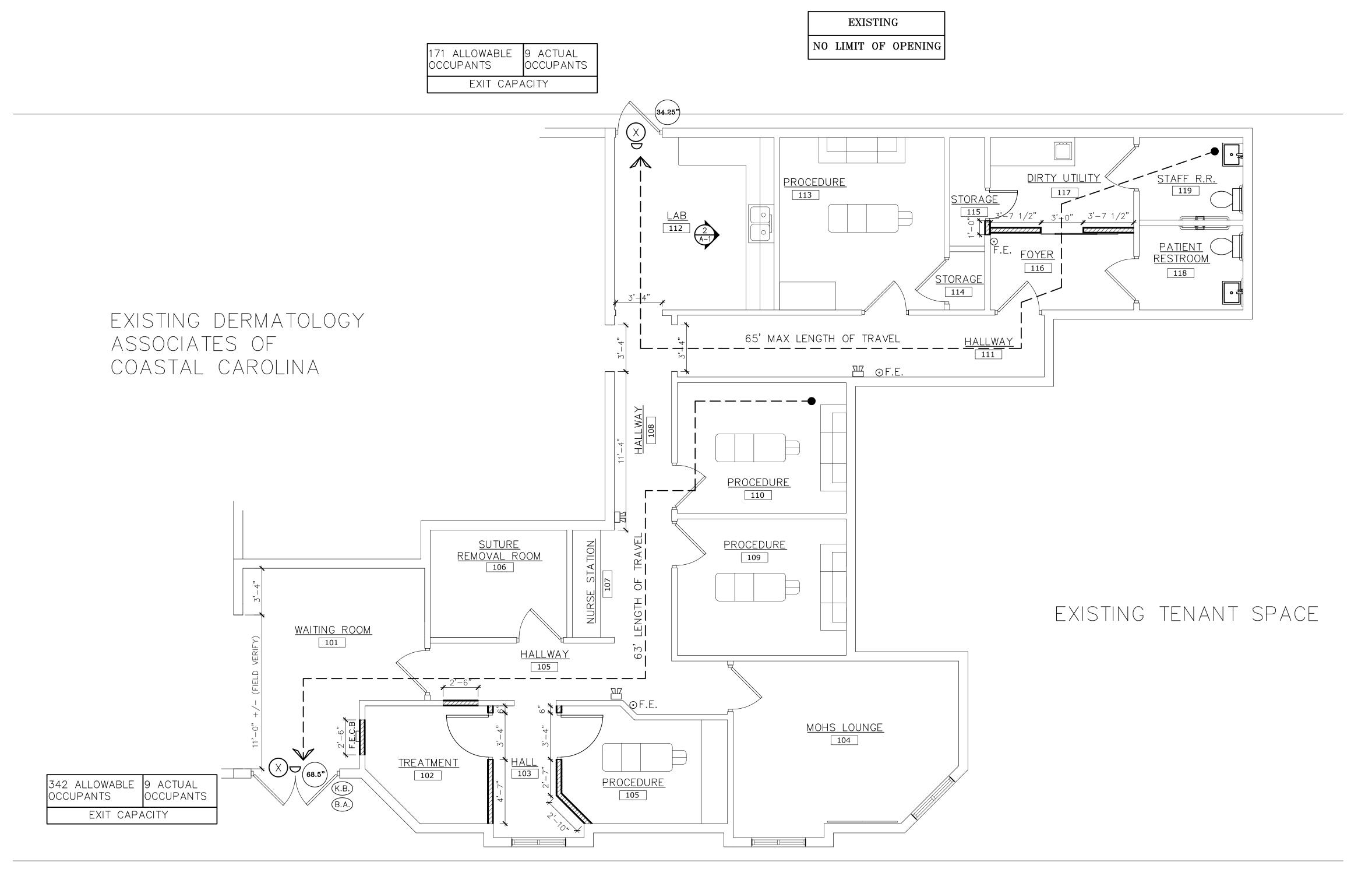
LIFE SAFETY PLAN

25001 SUED: **03.21.2025** WG BY: CRF CKD BY: LDD

REVISIONS







LEGEND:

FE

= FIRE EXTINGUISHER ON STANDARD HOOK

= FIRE EXTINGUISHER AND CABINET

= FIRE EXTINGUISHER AND CABINET LARSEN SEMI-RECESSED FS 2409-R3 BRUSHED CHROME W/ MP5 FIRE EXTINGUISHER

(34.25") (68.5")

 \bigcup

= CLEAR EXIT WIDTH

X = EXIT

(B.A.) = BUILDING ADDRESS- 6" MIN. HEIGHT, ON CONTRASTING BACKGROUND, READILY VISIBLE FROM

(K.B.) = KNOX BOX, FIRE DEPARTMENT KEY LOCK BOX CONFIRM LOCATION W/ FIRE DEPARTMENT

=EMERGENCY LIGHT

=EGRESS LIGHT

EXISTING
NO LIMIT OF OPENING

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· Interiors

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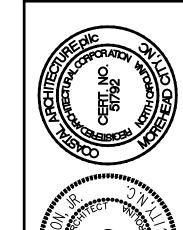
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DERMATOLOGY ASSOCIATES
OF COASTAL CAROLINA
MOREHEAD CITY, NORTH CAROLINA



THE CAPETY DIAM

LIFE SAFETY PLAN

25001

ISSUED: 03.21.2025

DWG BY: CRF

CKD BY: LDD

REVISIONS

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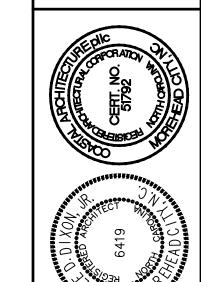
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- Planning



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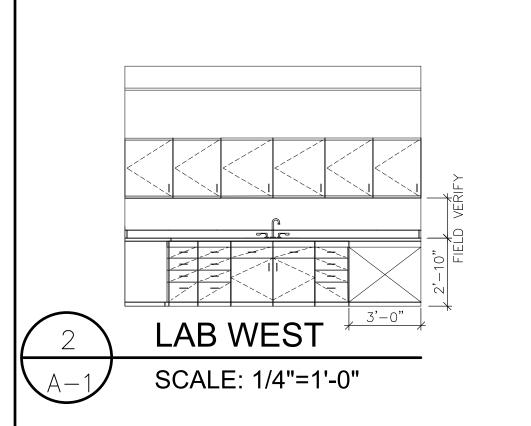
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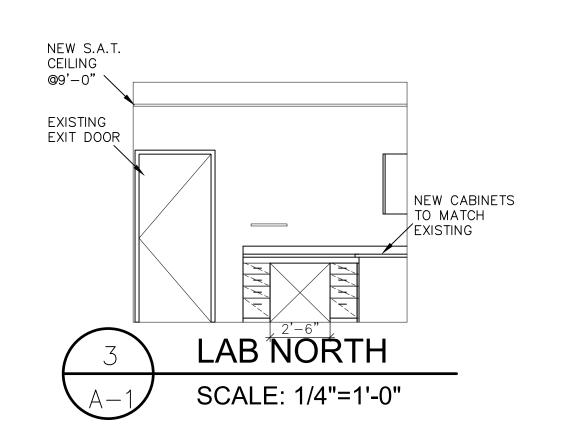


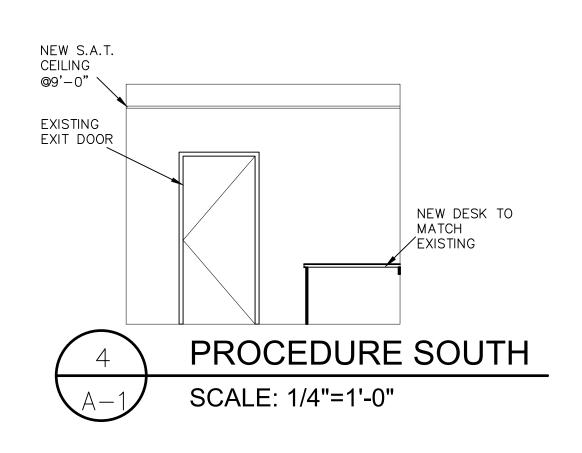
DEMOLITION PLAN

25001

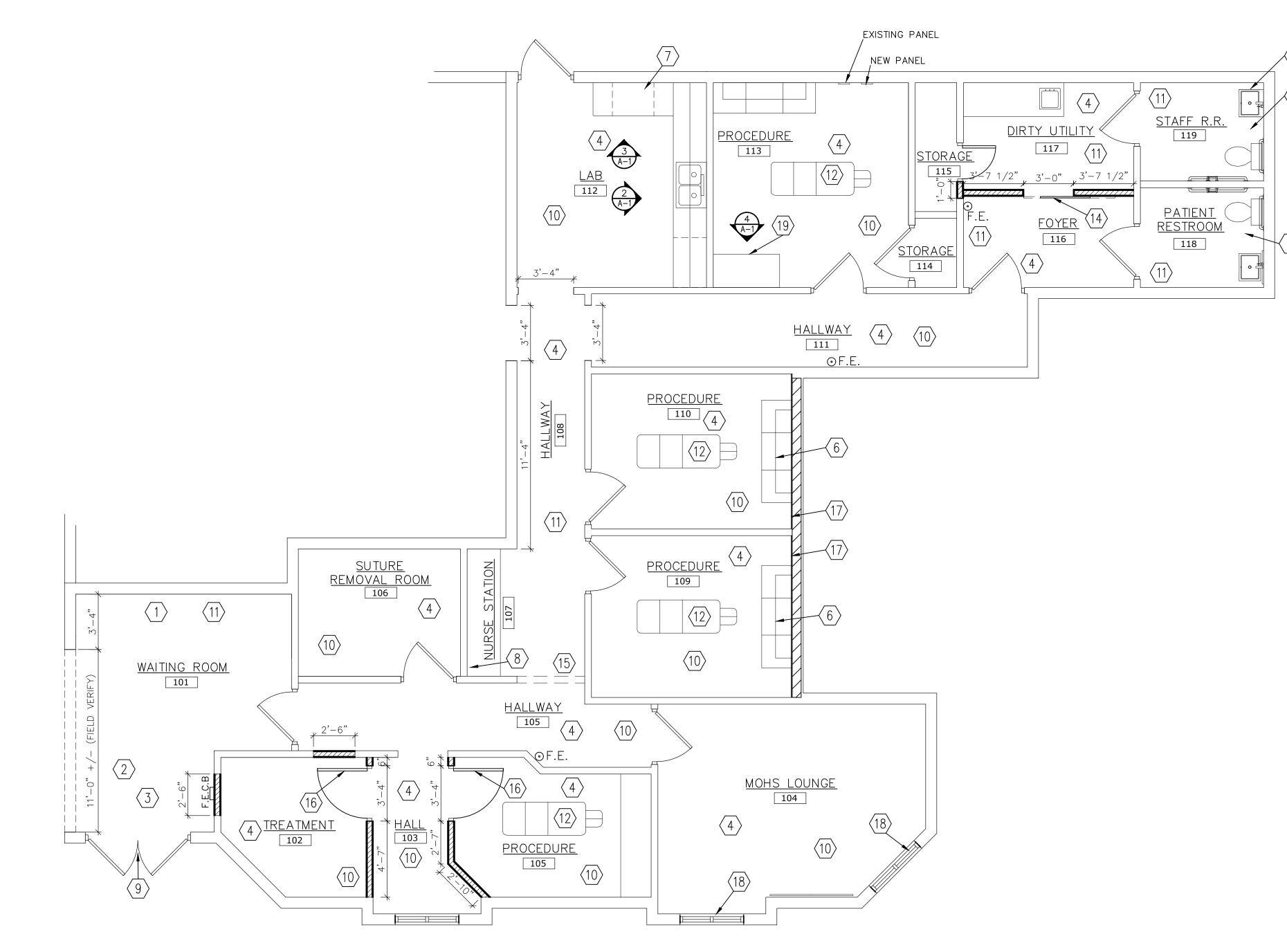
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- REPLACE LIGHTS W/ RECESSED LIGHTS- SEE ELECTRICAL
- NEW CARPET
- PATCH AND FILL TO MATCH EXISTING
- NEW LVP FLOOR
- EXISTING TILE TO REMOVE
- RELOCATE EXISTING CABINET (PROVIDE NEW COUNTERTOPS)
- NEW CABINETS (SEE DETAIL X-X.X)
- EXISTING MILLWORK TO REMAIN (PROVIDE NEW COUNTERTOPS)
- NEW HARDWARE ON EXISTING DOOR- EXIT ONLY DOOR
- NEW S.A.T CEILING
- EXISTING CEILING TO BE PAINTED
- NEW LIGHT (PROVIDE BLOCKING)
- NEW LAUNDRY TUB SINK
- NEW BARN DOOR 3'-0" X 7'-0"
- NEW BULKHEAD FOR S.A.T./ GWB TRANSITION AT CEILING
- NEW DOOR 3' X 7' SOLID CORE WOOD DOOR. CONTRACTOR TO MATCH EXISTING DOORS. 2" ALUMINUM FRAME. FRAME PAINTED TO MATCH EXISTING DOOR FRAMES.
- ADD ADDITIONAL SOUND PROOFING INSULATION IN WALL, INSTALL SOUND BREAK SHEET ROCK. MATCH EXISTING FINISH AND PAINT.
- FROST EXISTING WINDOWS
- NEW COUNTER DESK

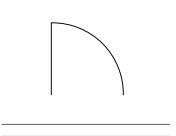
LEGEND

FIRE EXTINGUISHER AND CABINET

FIRE EXTINGUISHER W/ STANDARD HOOK

= EXISTING DOOR

= NEW BARN DOOR



= NEW DOOR

EXISTING WALL

 \mathbb{Z} 3\" INTERIOR STUD WALLS (5\" AT PLUMBING WALLS)

NEW 1 HOUR RATED WALL TO DECK ABOVE UL U419 OR EQUAL



Architectural

Planning

Interiors **AIA**

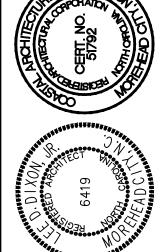
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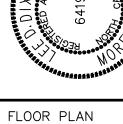
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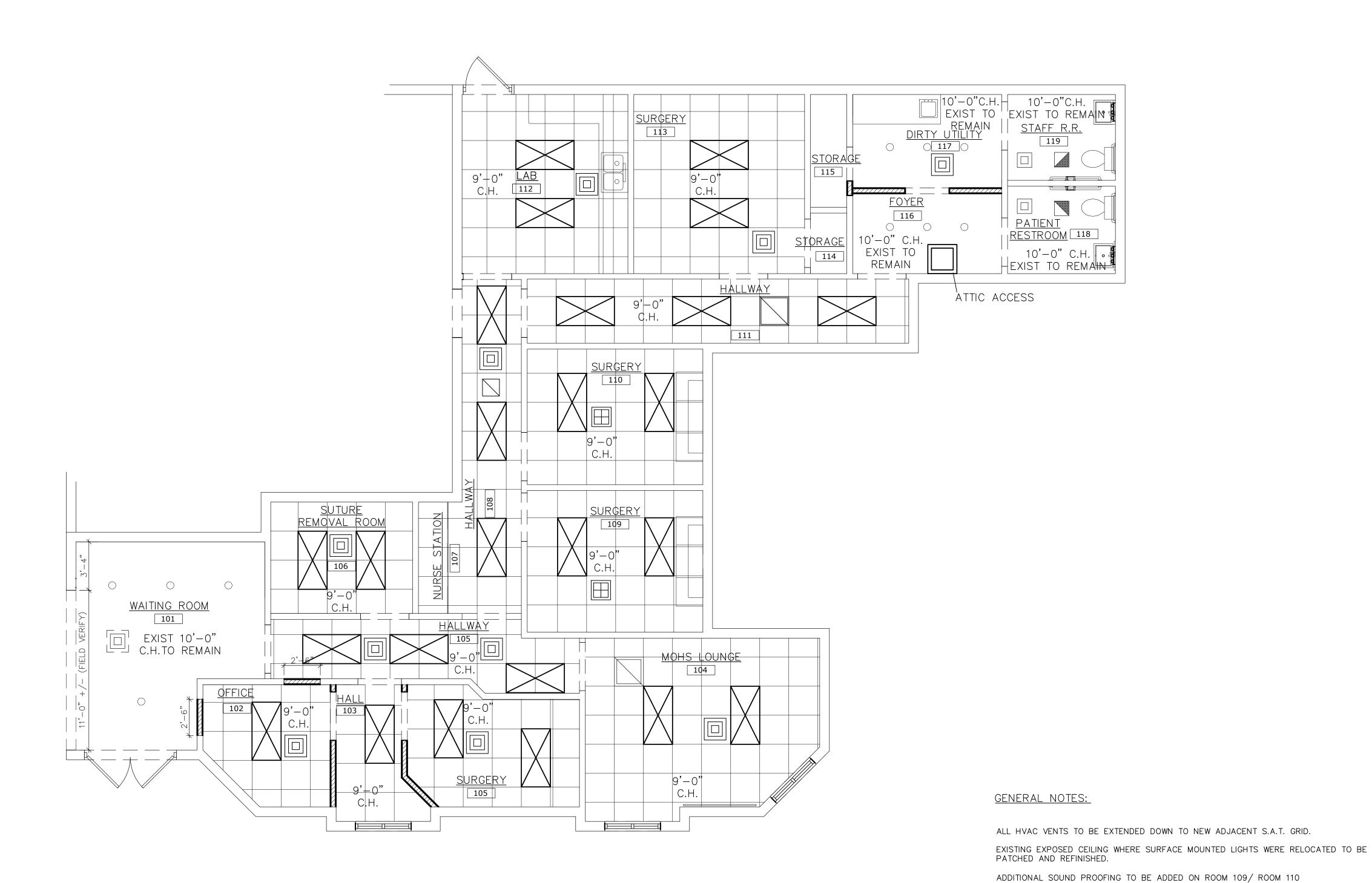




25001

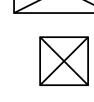
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CKD BY: LDD REVISIONS

SHEET NO. A-1





CAN LIGHTING



NEW LED 2X2

WALL LIGHT



AIR DIFFUSER



AIR RETURN

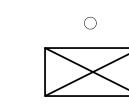




CEILING ACCESS HATCH

EXHAUST FAN





NEW LED 2X4













NEW 2X2 SUSPENDED ACOUSTICAL TILE CEILING

SHEET NO.

25001

SSUED: **03.21.2025**

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DIVISION 15A - PLUMBING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Plumbing fixtures, water heaters, and any other equipment necessary.
- 2. Cold and hot water piping and insulation.
- DWV piping. 4. Connection of all equipment; drain, vent,
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards
- insofar as they apply. 1. The National Electrical Code.
- 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes. 3. American Society of Sanitary Engineering Standard 1010. 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work,
- and pay for the same.
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner. The PC shall determine and coordinate with existing conditions.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid. 1.4 SHOP DRAWINGS
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly
- PART 2 PRODUCTS
- 2.1 FIXTURES
- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage/discharge with a temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to B. Provide pre-fabricated insulation kits for all sink and lavatory cooking equipment exhaust hoods. Review Arch. and Mech. drawings.
- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn. Hangers: Use pipe hangers where required on 8-foot centers with
- saddles to avoid crushing insulation. E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.
- 2.3 CLEANOUTS
- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations
- 2.4 SHOCK ARRESTERS
- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for qualify construction. Provide for all quick closing valves.
- PART 3 EXECUTION
- 3.1 CONNECTIONS
- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.
- 3.2 SERVICE ACCESS
- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.
- 3.3 ROUTING OF PIPING
- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to

prevent vibration, and to secure piping place.

- B. Space pipe hangers per NCSBC- Plumbing Sect. 308.5.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.
- A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insul-
- ation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code. exposed drain and supply piping.
- 3.5 INSPECTIONS AND TESTS
- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water— and air—tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.
- 3.6 STERILIZATION OF PIPING
- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.
- 3.7 SERVICE PRESSURE
- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.
- 3.8 DRAINDOWN
- A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.
- 3.10 GUARANTEES
- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

GENERAL NOTES - PLUMBING

BROUGHT TO THE ENGINEERS ATTENTION.

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
- 3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO
- 4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOORPLAN LAYOUTS. DO NOT USE ENGINEERING DRAWINGS FOR ROUGH-INS.

PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES

- 5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED
- 6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
- 7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR A MINIMUM OF 15 MINUTES AT A MINIMUM OF 100 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
- 9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
- 10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
- 11. PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 110 DEGREES F (MAX) U.O.N. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV- WATTS LFUSG-B 'LEAD FREE' GUARDIAN OR EQUAL) IF REQUIRED FOR LAVATORIES, AS REQUIRED FOR LAB SINK S1. PROVIDE/VERIFY TEPID HOT WATER AT 100 DEGREES F (MAX.) TO S1 (LAB SINK), SEE FIXTURE SCHEDULE- EYEWASH INCLUDED IN UNIT SPECIFICATION. LOCATE TMV FOR S1 IN A MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, ABOVE CEILING, OR AS REQUIRED.
- 12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.

SYMBOL LEGEND - PLUMBING **DESCRIPTION** (U.O.N.) WASTE PIPING (W) VENT PIPING (V) ______ COLD WATER PIPING (CW) HOT WATER PIPING (HW) SHUT-OFF VALVE DIELECTRIC UNION CLEANOUT FINISH FLOOR ₩CO/HCO WALL/HORIZONTAL CLEANOUT CLEANOUT FINISH GRADE VENT THRU ROOF (VTR) ABOVE FINISHED FLOOR A.F.F.

FIXTURE SCHEDULE - PLUMBING

U.O.N.

FLORESTONE MODEL FM-1, FLOOR MOUNTED SINK TO COME WITH 4 HEAVY DUTY MOLDED LEGS, WITH 1 1/2" DRAIN OPENING, 20 GALLON CAPACITY. PROVIDE DECK MOUNT FAUCET

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT PRIOR TO ORDERING. ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE TENANT AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.

S1 * LAB SINK (W/EYE WASH FAUCET ATTACHMENT)

ELKAY DLR3322 SINGLE BASIN STNLS STL SINK 18 GA., SELF-RIMMING, W/FAUCET LK406GN04T4 WITH TWO BLADE HANDLES, AND CENTER DRAIN. PROVIDE CHROME PLATED BRASS P-TRAP AND SHUT-OFF VALVES. COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETRY PRIOR TO ORDERING. PROVIDE HAWS 7620, FAUCET MOUNTED EYE WASH W/INTREGRATED SHUT-OFF IF WATER IS OVER 100 DEG. (F). PROVIDE TMV (WATTS LFUSG-B OR EQUAL) FOR CW AND 100 DEG. (F) HW TO FAUCET.

S2 * NEW BATHROOM SINK

(PROVIDE FAUCET HOLE DRILLING) - ELKAY LK2000CR, PROVIDE P-TRAP, SHUT-OFF VALVES.

UNLESS OTHERWISE NOTED

Coastal

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PLUMBING SPECIFICATIONS

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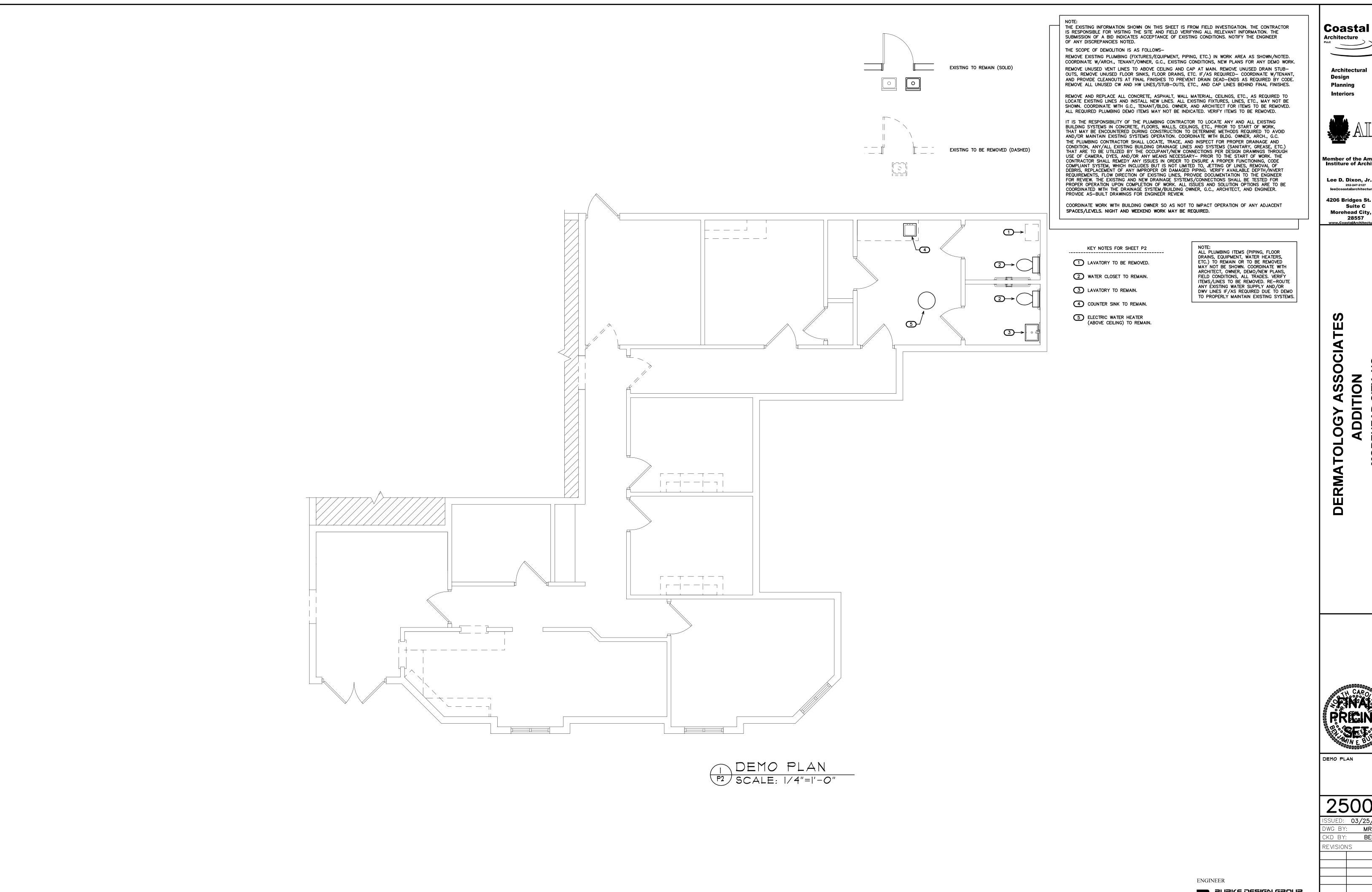
D1

BURICE DESIGN GROUP

3305-109 DURHAM DRIVE RALEIGH, NC 27603 PHONE: (919) 771-1916 FAX: (919) 779-0826 email: ben@bdg-nc.com

Corp. License # C-2652

ENGINEER



Architectural Design **Planning** Interiors

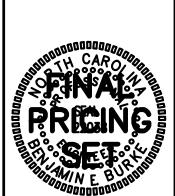


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ADDITION
MOREHEAD CITY, NC



DEMO PLAN

 ISSUED:
 03/25/2025

 DWG BY:
 MRH

 CKD BY:
 BEB

 REVISIONS

BURICE DESIGN GROUP

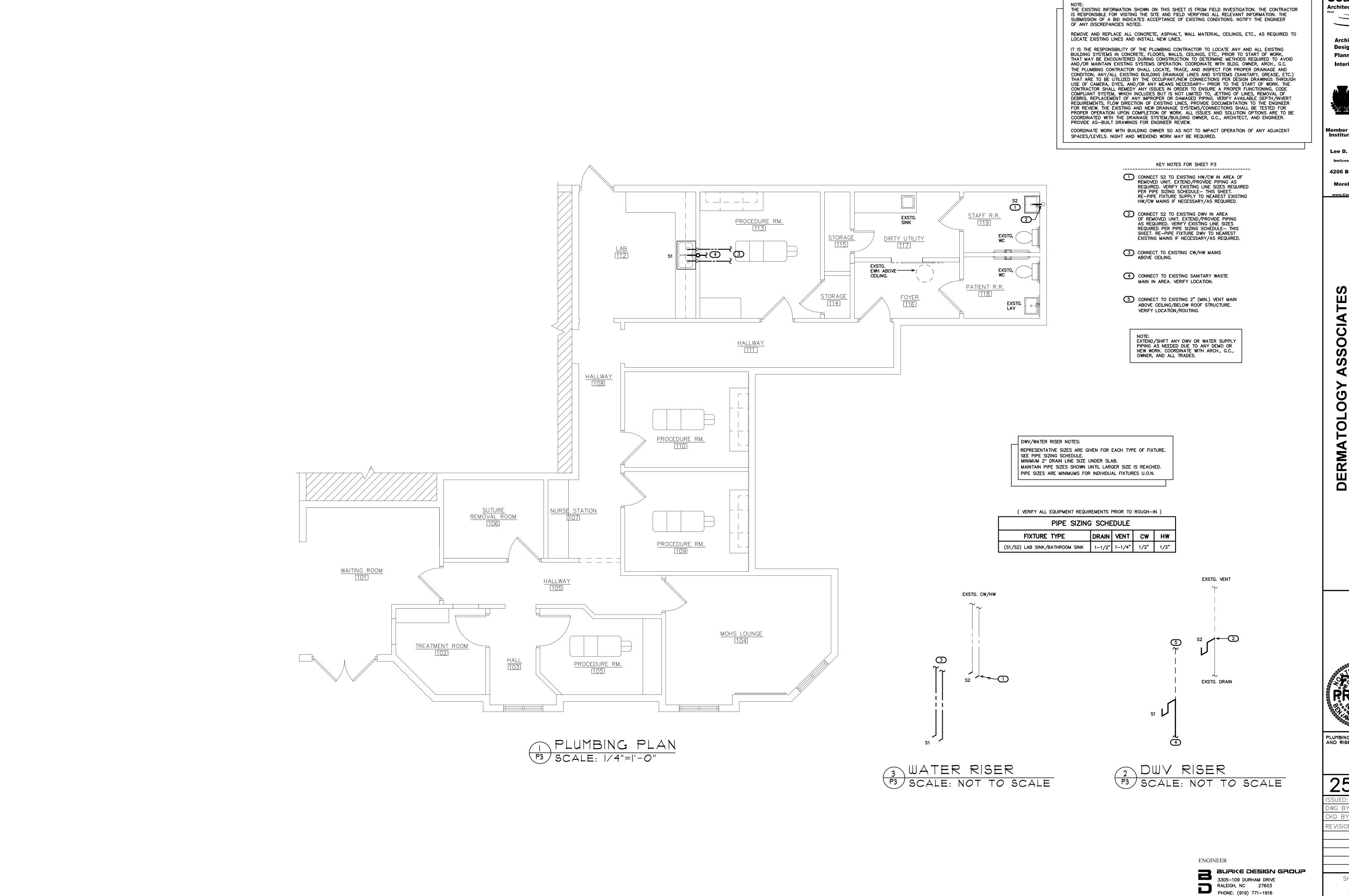
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P2



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ADDITION
MOREHEAD CITY

PLUMBING PLAN AND RISERS

25001
 ISSUED:
 03/25/2025

 DWG BY:
 MRH

CKD BY: BEB REVISIONS SHEET NO. **P3**

PHONE: (919) 771-1916
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email: ben@bdg-nc.com
Corp. License # C-2652

DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- Heating, ventilation, and air conditioning equipment.
- Ductwork. Grilles and diffusers. Controls and control wiring.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards
 - ASHRAE Guide

Condensate piping.

- National Electric Code. 2018 NC State Building Code: Mech Code.
- The Electrical Specifications for this project.

have all local licenses required for the work.

- SMACNA HVAC Duct Construction Standards. All local codes and ordinances.
- 7. ARI rating.8. 2018 NC State Building Code: Energy Conservation Code. C. These codes are minimum standards. If codes require a more
- the codes shall govern. D. The HVAC Contractor shall be licensed in North Carolina and

stringent method of construction than the specifications require,

- A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
- B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.
- C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.
- 1.4 SHOP DRAWINGS
- A. Shop drawings shall be submitted for all major items of equipment, These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:
- All equipment and accessories Grilles and diffusers. 3. Unit sizes and requirements
- PART 2 -PRODUCTS
- 2.1 EQUIPMENT
- A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.
- A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.
- 2.3 DUCTWORK
- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, deflectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.
- B. Seal all sheet metal joints with fiber impregnated mastic. C. Support from building structure on strap hangers not over
- D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
- E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.
- F. Round runouts, where used, shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning INL-25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C

Kwik-set) and is not to be mounted in side take-off.

- 2.4 DUCT INSULATION (LOW PRESSURE)
- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke
- developed rating of not more than 50, exposed exterior piping. B. All duct insulation shall comply with Section 604,
- of the N. C. Building Code: Mechanical Code C. All supply and return ductwork shall be completely insulated, either internally or externally.
- D. Rectangular ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG
- Ultraliner, Johns Manville or approved equal E. As an alternative to duct liner rectangular duct may be wrapped with Class I - 2", 3/4 lb. density (R-6.5) thick reinforced foil back fiberglass insulation. Owens-corning Series ED or equal. Tape shall be Kraft
- F. Exhaust air duct does not require insulation, unless

reinforced foil tape or equal.

- otherwise noted on the plans. G. Insulation shall be held inplace with adhesive and welding
- H. Duct dimensions shown on the drawings are Net Inside Dimensions
- 2.5 THERMOSTATS
- A. Provide programmable electronic thermostats. B. Submit proposed thermostats for approval.

C. Provide 1 year warranty on all roof work performed.

pins 16" on center.

- A. Provide pre-manufactured roof flashings compatible with equipment served.
- B. Coordinate roof work with roof system used. Provide proper flashing as required.
- 2.7 DUCT SMOKE DETECTORS
- A. Duct detectors are not required since units air flows are 2000 cfm or less per NCSBC: Mechanical Code, Section 606.2.
- PART 3 EXECUTION
- 3.1 PIPING
- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to
- the Engineer. B. The HVAC Contractor shall paint all exterior refrigerant piping. with UV resistant paint as recommended by the closed cell insulation manufacturer.
- C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.
- 3.2 ELECTRICAL WORK
- A. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
- B. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.
- C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as—built wiring diagram prepared showing all connections and colors of wiring and
- D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.
- 3.3 CLEAN UP
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.
- 3.4 OPERATOR'S MANUAL AND DIAGRAM
- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
- B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.
- C. Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.
- 3.5 GUARANTEE
- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.
- B. All air flows must be measured and balanced to within 10% of design airflows. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats themostats if required for occupancy comfort.

FLEXIBLE DUCTWORK NOTES

- I) INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE. 2) DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS. 3) DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- 4) DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- 5) USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK
- 6) EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
- 1) SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

FLEXIBLE DUCTWORK SIZES MAXIMUM CFM'S

SIZES	SUPPLY	RETURN
6"	100	100
8"	175	175
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

GENERAL NOTES - MECHANICAL

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL
- COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- 4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- DIMENSIONS REFER TO THE ARCHITECTURAL PLANS. 6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING

CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED

5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR

ELECTRICIAN. 7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND

FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS.

PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.

- 8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- 11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 12. PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- 13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 14. PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

DUCTLES	SS SPLIT SYSTEM HEAT PUMP SCHEDULE
DHP-1 OUTDOOR HEAT PUMP UNIT	* MITSUBISHI MODEL #SUZ-KA18NA2NA, 1.5 TON OUTDOOR HEAT PUMP UNIT, 20.7 SEER. 240 VOLT, 1 PHASE, CONDENSING UNIT 14A MCA, 24A MOCP. FAN COIL UNIT IS POWERED VIA FIELD PROVIDED WIRING FROM OUTDOOR UNIT. SERVES (1) INDOOR FAN-COIL UNIT (DFC-1).
DFC-1 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #SLZ-KF18NA1 CEILING CASSETTE FAN COIL UNIT. NET COOLING CAPACITY = 17,700 BTUH, 300 CFM LO TO 475 CFM HI. 1.5 TON NOMINAL. PROVIDE WRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.29, FLA 240 VOLT. SINGLE PH.
DHP-2 OUTDOOR HEAT PUMP UNIT	* MITSUBISHI MODEL #MXZ-4C36NA, 3 TON OUTDOOR HEAT PUMP UNIT, 19.2 SEER. 240 VOLT, 1 PHASE, CONDENSING UNIT 23.1A MCA, 25A MOCP. FAN COIL UNIT IS POWERED VIA FIELD PROVIDED WRING FROM OUTDOOR UNIT. SERVES (4) INDOOR FAN-COIL UNITS (DFC-2.1, DFC-2.2, DFC-2.3, & DFC-2.4).
DFC-2.1 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #SLZ-KF09NA1CEILING CASSETTE FAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 230 CFM LO TO 300 CFM HI. 0.75 TON NOMINAL. PROVIDE WRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.29, FLA 240 VOLT. SINGLE PH.
DFC-2.2 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #SLZ-KF09NA1CEILING CASSETTE FAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 230 CFM LO TO 300 CFM HI. 0.75 TON NOMINAL. PROVIDE WRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.29, FLA 240 VOLT. SINGLE PH.
DFC-2.3 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #SLZ-KF09NA1CEILING CASSETTE FAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 230 CFM LO TO 300 CFM HI. 0.75 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.29, FLA 240 VOLT. SINGLE PH.
DFC-2.4 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #SLZ-KF09NA1CEILING CASSETTE FAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 230 CFM LO TO 300 CFM HI. 0.75 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.29, FLA 240 VOLT. SINGLE PH.

* OR APPROVED EQUAL

AIR DISTRIBUTION SCHEDULE NECK FACE NOTES MATERIAL SERVICE MANUFACTURER MODEL NO. SIZE SIZE EE FLEXIBLE LAY-IN CEILING, WHITE 24" X 24" STEEL CARNES SPAB224 DUCT 4-WAY BLOW SCHEDULE SEE FLEXIBLE 24" X 24" LAY-IN CEILING, WHITE STEEL RA RETURN CARNES SPRB22

* OR APPROVED EQUAL

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

DEHUMIDIFICATION CONTROL INSTALL DEHUMIDIFICATION CONTROL MODULE FOR EXISTING HEAT PUMP SYSTEMS

HP-1/AHU-1 AND HP-2/AHU-2:

FOR EACH SYSTEM PROVIDE "SIMPLE ENGINEERED SOLUTIONS" MODEL #HPDM-XX HEAT PUMP DEHUMIDIFICATION CONTROL MODULE. PROVIDE PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER AND HUMIDISTAT FUNCTION. THERMOSTAT SHALL BE COMPATIBLE WITH DEHUMIDIFICATION CONTROL MODULE. PURPOSE OF DEHUMIDIFICATION CONTROL MODULE IS TO INITIATE COOLING MODE WHEN HUMIDISTAT SENSES HUMIDITY OVER SETPOINT AND ENERGIZE AND CONTROL ELECTRIC HEAT TO MAINTAIN SPACE TEMPERATURE. CONTACT SIMPLE ENGINEERED SOLUTIONS FOR INFORMATION ON DEHUMIDIFICATION CONTROL MODULE: (910) 231-9929. email: imsugas100@yahoo.com.

EXHAUST FAN SCHEDULE

EXHAUST FAN #1

* OR APPROVED EQUAL

(EF-1)

LEGEND - MECHANICAL RECTANGULAR DUCTWORK. INSIDE CLEAR DIMENSION 12 X 8 INDICATED (WIDTH X HEIGHT) FLEXIBLE DUCTWORK SUPPLY DIFFUSER RETURN GRILLE WALL MOUNTED THERMOSTAT (UNIT SERVED IS INDICATED) - GRILLE TYPE

REFRIGERANT PIPING

CARNES MODEL# VIDK-06-J2 IN-LINE DIRECT DRIVE EXHAUST FAN, 300 CFM @ 0.375" SP, 1500 RPM, 1/8 HP, 120V. SINGLE PHASE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, GRAVITY BACKDRAFT DAMPER, AND VIBRATION ISOLATION ON HANGING RODS.

LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES. PROVIDE FACTORY SPEED CONTROLLER

NOTE: ALL EXHAUST FANS SHALL HAVE GRAVITY BACKDRAFT DAMPERS PER NCSBC, ENERGY CONSERVATION CODE.

Member of the America Institure of Architects - MIN. CFM Lee D. Dixon, Jr., AIA CONDENSATE PIPING

252-247-2127 4206 Bridges St. Ext., Suite C Morehead City, NC 28557

Coastal

C S MOM



HVAC SPECS.SCHEDULES AND NOTES

WG BY: BEB CKD BY: FVISIONS

ENGINEER BURICE DESIGN GROUP
3305-109 DURHAM DRIVE PHONE: (919) 771-1916

RALEIGH, NC 27603 FAX: (919) 779-0826 email: ben@bdg-nc.com Corp. License # C-2652

EXISTING MECHANICAL ITEMS TO BE REMOVED AND DISCARDED, PATCH OPENING IN CEILING, WALL OR FLOOR TO MATCH ADJACENT SURFACE

ALL EXISTING MECHANICAL ITEMS TO BE RELOCATED SEE SHEET M3 FOR ADDITIONAL INFORMATION.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS AND FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

KEY NOTES FOR M2

(1) EXISTING 2-TON AIR HANDLING UNIT IN ATTIC SPACE TO REMAIN.

EXISTING RECTANGULAR RIGID SUPPLY DUCTWORK TO REMAIN.

EXISTING THERMOSTAT TO REMAIN.

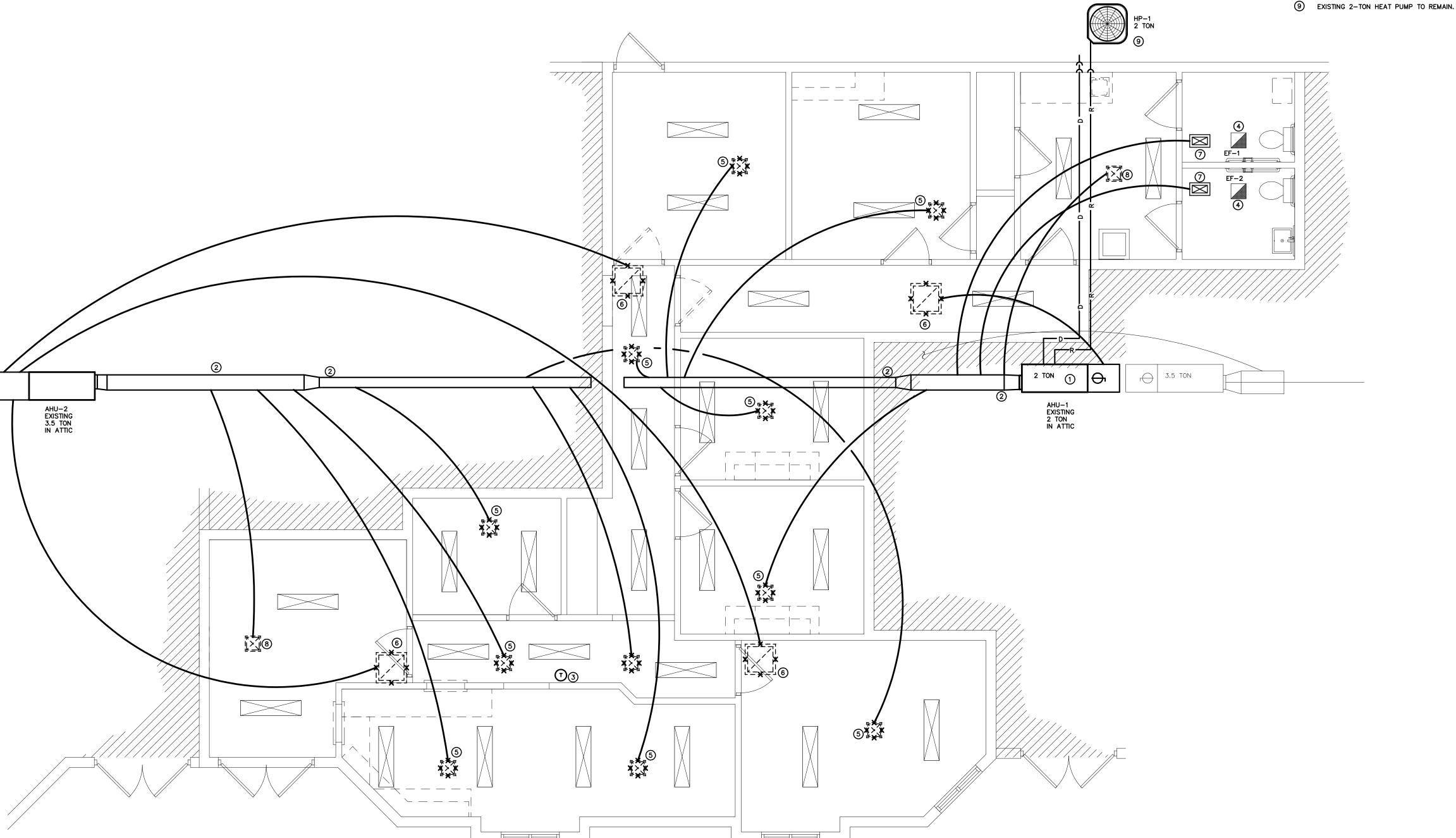
4 EXISTING TOILET EXHAUST FAN AND DUCTWORK (NOT SHOWN) TO REMAIN.

REMOVE EXISTING SUPPLY DIFFUSER.

REMOVE EXISTING RETURN DIFFUSER.

TEXISTING BATHROOM SUPPLY DIFFUSER AND FLEXIBLE DUCT TO REMAIN.

EXISTING SUPPLY DIFFUSER TO BE RELOCATED.



HVAC DEMO PLAN

M2 SCALE: 1/4"=1'-0"

Design **Planning**

Coastal

Interiors

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Morehead City, NC 28557

ATOLOGY ASSOCIAT
ADDITION
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DEMO HVAC PLAN

25001

 ISSUED:
 03/25/2025

 DWG BY:

CKD BY: BEB REVISIONS

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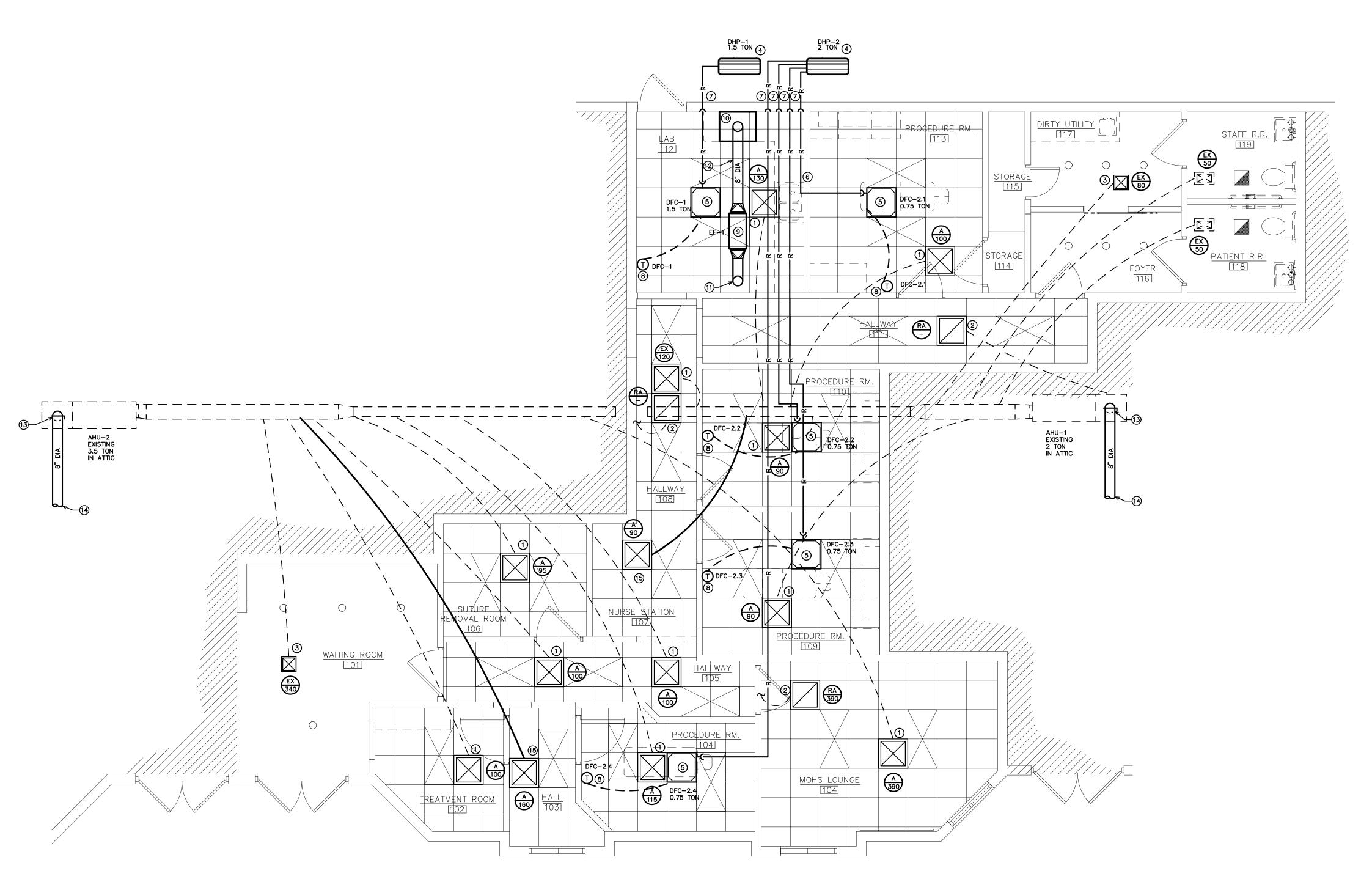
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ENGINEER

NOTE:
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THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

KEY NOTES FOR M3

- NEW SUPPLY AIR DIFFUSER. RECONNECT TO EXISTING FLEXIBLE DUCT AND EXTEND AS REQUIRED.
- 2 NEW RETURN AIR GRILLE. RECONNECT TO EXISTING FLEXIBLE DUCT AND EXTEND AS REQUIRED.
- 3 RELOCATED SUPPLY AIR DIFFUSER. MAINTAIN EXISTING FLEXIBLE DUCT AND EXTEND AS REQUIRED.
- DUCTLESS SPLIT SYSTEM HEAT PUMP MOUNTED ON CONCRETE PAD. MAINTAIN ALL REQUIRED MANUFACTURERS CLEARANCES.
- 5 DUCTLESS SPLIT SYSTEM FAN COIL UNIT MOUNTED ON WALL, WITH BOTTOM OF UNIT 84" A.F.F.
- 6 RUN PIPING TIGHT TO UNDERSIDE OF STRUCTURE. (TYPICAL).
- 7 RUN REFRIGERANT PIPING DOWN CONCEALED IN EXTERIOR WALL.
- 8 NEW THERMOSTAT, MOUNT AT 48" AFF.
- 9 NEW-IN-LINE EXHAUST FAN IN ATTIC SPACE. VERIFY FINAL LOCATION OF FAN THAT FAN IS ACCESSIBLE FOR SERVICE, AND COORDINATE FINAL LOCATION WITH EXISTING EQUIPMENT, DUCTWORK, AND STRUCTURE IN ATTIC SPACE.
- (10) NEW EXHAUST HOOD. HOOD SHALL BE 30" WIDE X 24 DEEP X 12" HIGH. INSTALL HOOD 36" ABOVE COUNTER SURFACE. HOOD SHALL BE MADE OF STAINLESS STEEL WITH WELDED CONSTRUCTION.
- RUN NEW 8" DIA. EXHAUST DUCT UP TO NEW ROOF MOUNTED EXHAUST CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
- (12) RUN DUCTWORK IN ATTIC SPACE.
- (3) CONNECT NEW 8" DIA. RIGID ROUIND DUCT TO EXISTING RETURN AIR PLENUM ON EXISTING AIR HANDLING UNIT. PROVIDE MANUAL DAMPER WITH LOCKING QUADRANT. 150 CFM OUTSIDE AIR.
- (14) RUN NEW 8" DIA. RIGID ROUND OUTSIDE AIR DUCT TO A NEW INTAKE GRILLE IN THE EXISTING SOFFIT ON THE FRONT OF THE BUILDING. INTAKE SHALL BE 10'-0" MIN. FROM ANY EXHAUST DISCHARGE.
- 15) NEW SUPPLY AIR DIFFUSER. PROVIDE NEW FLEXIBLE DUCT FROM DIFFUSER TO EXISTING SUPPLY AIR MAIN DUCT.



HVAC PLAN

M3 SCALE: 1/4"=1'-0"

Coastal

Design Planning Interiors

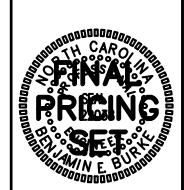
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CITY, **ADDITION** MOREHEAD DE



HVAC PLAN

25001

CKD BY: BEB REVISIONS

SHEET NO. M3

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DIVISION 16 - ELECTRICAL

PART 1 - GENERAL 1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily
- limited to, furnishing and installing the following: 1. Electrical service and service equipment
- 2. Lighting and power distribution system. 3. Provide lighting fixtures selected by owner
- with lamps to match. 4. Wiring devices, boxes, cover plates, etc.
- 5. Source of power for all items of equipment.
- Grounding.
- 7. Other requirements and/or systems where shown. B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct
- C. All work under this contract shall be installed in accordance with the latest edition of the following codes and
- standards insofar as they apply: 1. The 2020 National Electrical Code.
- 2. The National Electrical Safety Code.
- 3. Underwriter's Laboratories, Inc., Standards and approved listings.
- 4. Electrical Testing Labatories standards. 5. North Carolina Building Code, Latest Edition and Revisions.
- 6. All local codes and ordinances. D. The Electrical Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final

certificate of inspection and approval from the electrical

- inspector having jurisdiction prior to acceptance of the work. F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.
- A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming
- B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 - PRODUCTS AND MATERIALS 2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.

1. Boxes installed in concealed locations shall be set flush with the finished surfaces.

2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 NOT USED

- 2.3 CONDUCTORS
- A. Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.
- B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be UL approved.
- C. Metallic sheathed "MC" cable may be used where allowed by N.E.C. D. Conductors shall be spliced and taped as follows:
- 1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for
- 150 degrees C for use in recessed lighting fixtures. 2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed
- insulating covers may be used. All connectors shall be UL approved. 3. No split-bolt type connectors may be used.
- E. All branch wire and connections shall be copper and sized per National Electric Code.
- F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
- G. All wiring in mechanical spaces shall be plenum rated.
- H. Provide GFI protection within 6'-0" of any sink.
- I. All multi—wire branch circuits shall comply with 2020 NEC, 210.4(B).
- J. All wiring at medical facilities shall comply with 2020 NEC, 517.1.
- 2.4 PANELBOARDS, SAFETY SWITCHES A. Panelboards shall comply with NEMA Standard PB 1 — Latest
- Edition and as manufactured by Square D or ITE—Siemens. B. The contractor shall be responsible for correctly phasing the
- circuits in the panelboards. C. Safety switches shall be general duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 NOT USED

- 2.6 WIRING DEVICES A. Wiring devices shall be commercial grade by Bryant, Leviton, or
- approved equal. With matching cover. Color by Architect. B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.
- C. Wiring devices installed over counters shall comply with ANSI A117.1.
- 2.7 NOT USED
- 2.8 CONDUIT A. PVC conduit will be allowed where N.E.C. approved.

B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

3.1 CIRCUIT GROUNDING

- A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding
- bus in panelboard and securely attached and grounded to the device or enclosure at the other end. 3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections

shall be continuous from equipment ground bus in panelboard to the hex

- nut on the convenience outlet or switch. 3.3 MOTORS
- A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight 3.4 NOT USED

3.5 EQUIPMENT LABELING

- A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled. services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall
- include the name of the equipment and where it is fed from. B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.
- C. All empty conduit runs shall be identified and indicated where they terminate. D. Provide typewritten directory in each panelboard to
- 3.6 NOT USED
- 3.7 NOT USED 3.8 JUNCTION AND/OR PULL BOXES

clearly identify each circuit, service, etc.

- A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.
- 3.9 PULL WIRE
- A. Leave pull wire in each empty conduit run.
- 3.10 NOT USED 3.11 GROUNDING

3.13 CLEAN UP

- A. All grounding shall be in accordance with Article 250 of the NEC.
- In addition, the following requirements shall be met: 1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
- 2. Equipment ground continuity shall be maintained through flexible metal conduit.
- 3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors. 4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
- 5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
- 6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

- A. PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.
- B. HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

additional cost to the Owner.

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no

GENERAL NOTES

- 1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTERS AND CONDUIT PER NEC.)
- 3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- 4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- 5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS. 6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET
- SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- 7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- 12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- 14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE

ELECTRICAL LEGEND

LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)

DUPLEX RECEPTACLE - 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF, 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. WP/GFI 'U' INDICATES RECEPTACLE WITH (2) USB PORTS.

QUADRAPLEX RECEPTACLE - 120V

FLOOR OR CEILING OUTLET (AS NOTED) - 120V

SPECIAL PURPOSE RECEPTACLE - REFER TO POWER PLAN AND PANEL SCHEDULE

LIGHT SWITCH

SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.

DIMMABLE LIGHT SWITCH

MOTOR RATED SWITCH

JUNCTION BOX

TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK

SINGLE-POLE HOMERUN TO PANELBOARD

TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD EXIT LIGHT

EMERGENCY EGRESS FIXTURE

PHOTOCELL (LED COMPLIANT)

---- SWITCH LEG

BRANCH CIRCUIT WIRING

DISTRIBUTION PANELBOARD

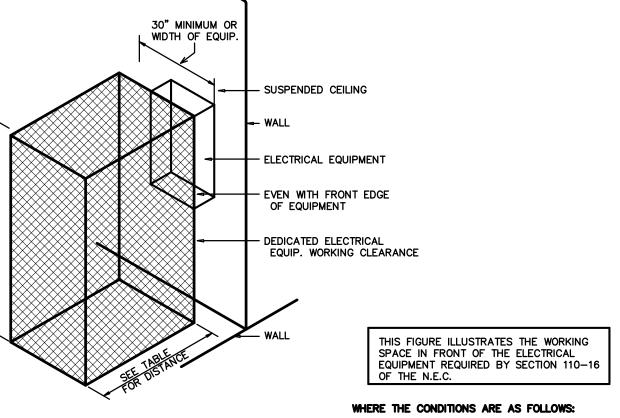
PANEL A DISCONNECTING MEANS AS REQUIRED BY CODE

NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL PENETRATE THIS ZONE. -SPACE CONTINUES THRU SUSPENDED CEILING. LAY-IN CEILING - ELECTRICAL EQUIPMENT SPACE SHALL BE NOT LESS THAN THE WIDTH AND DEPTH OF THE EQUIPMENT. DEDICATED ELECTRICAL SPACE-ABOVE AND BELOW

ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

- FLOOR





- STRUCTURAL CEILING

ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

V	VORKING	CLEAF	RANCES		
VOLTAGE TO			DISTANCE	IN FEET	T
ROUND NOMINAL	CONDITION:	1	2		3
1–150 51–600		3 3	3 3–1/	′ 2	3 4

PARTS ON THE OTHER SIDE.

EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS. 2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN ROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRIGAL SYSTEM AND EQUIPMENT Method of Compliance Energy Cost Budget Prescriptiv Energy Cost Budget ASHRAE 90.1: Prescriptive Lighting Schedule lamp type required in fixture number of lamps in fixture ballast type used in fixture number of ballasts in fixture total wattage in fixture total interior wattage specified vs. allowed total exterior wattage specified vs. allowed 202VA / 750VA Additional Prescriptive Compliance 506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density

506.2.3 Energy Recovery Ventlation Systems 506.2.4 Higher Efficiency Service Water Heater

506.2.5 On-Site Supply of Renewable Energy

506.2.6 automatic Daylighting Control System

\ ELECTRICAL CLEARANCES

ENGINEER

BURICE DESIGN GROUP RALEIGH, NC 27603
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ELECTRICAL SPECS

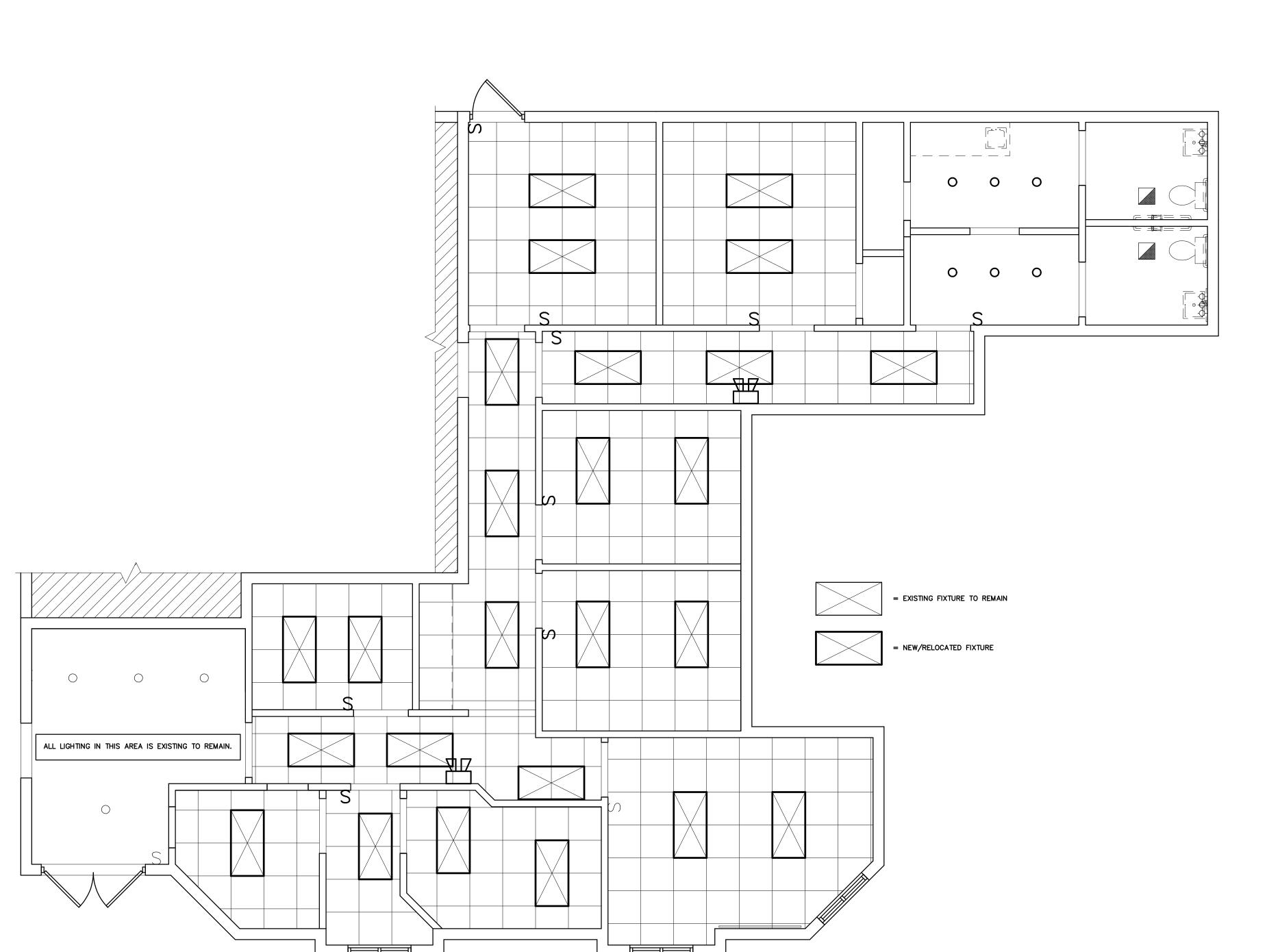
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WG BY: KD BY: BEB EVISIONS

SHEET NO.

UED: **03/25/20**

NOTE:
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THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.



EXISTING LIGHTING

E2 SCALE: 1/4"=1'-0"

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ERMATOLOGY ASSOCIATES
ADDITION
MOREHEAD CITY, NC DE

EXISTING LIGHTING

25001

ISSUED: **03/25/2025** DWG BY: **RM** CKD BY: **BEB** REVISIONS

SHEET NO.

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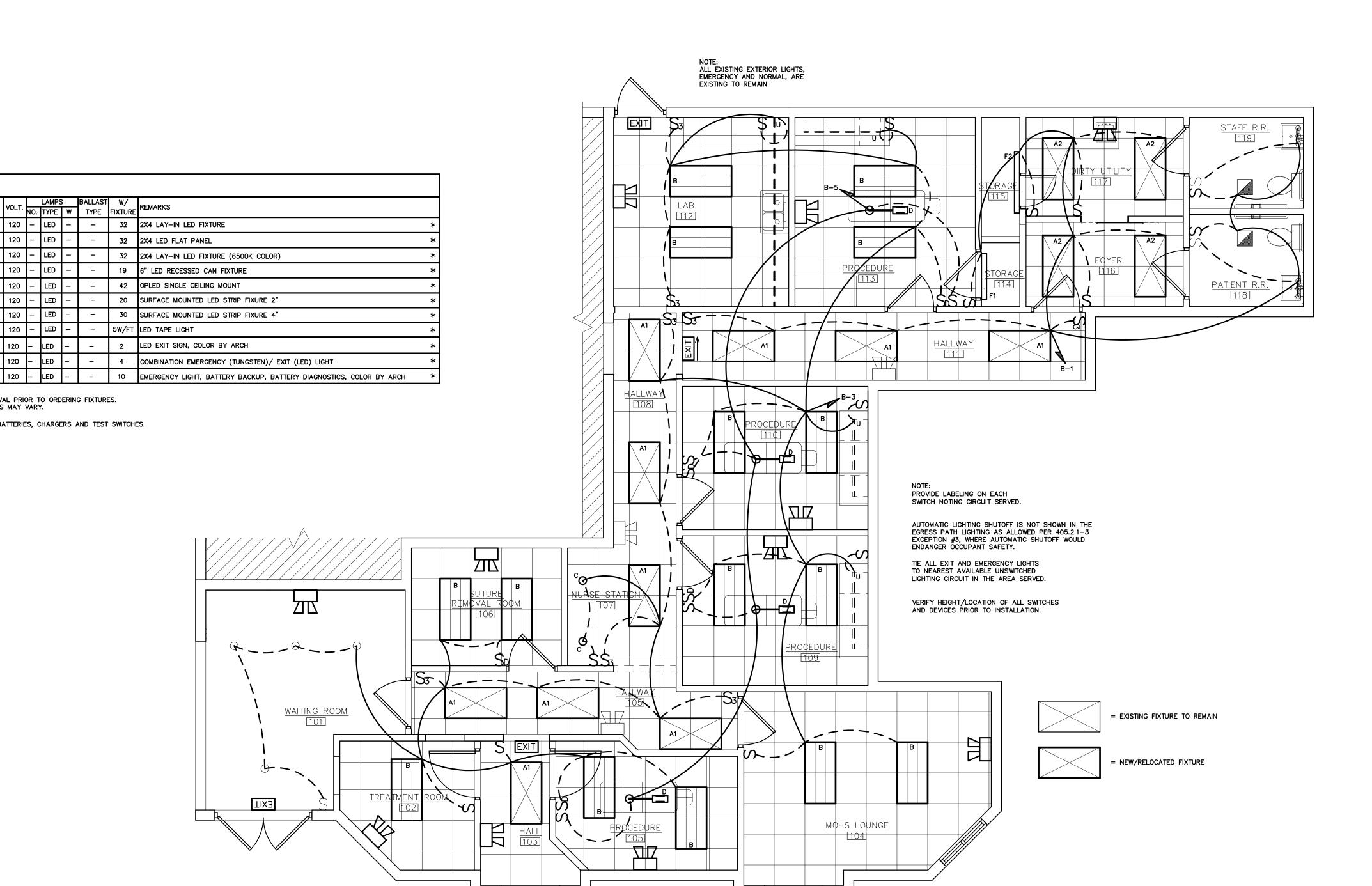
RALEIGH, NC 27603

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email: ben@bdg-nc.com

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LIGHTING SCHEDULE *

LCAT24-50LWG-EDU

LCAT24-2765TLWG-EDU

LTR-6RD-H-SL15L-DM1

DL-AC-FLEX2-LNSB-4090

PLT-12644

PLT-90266

ECBRLEDM6

ELW-BB-10L3-DG

CATALOG NO.

CPXTW 2X4 TUWH PROR 4000LM 80CRI SWL MVOLT

OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

- 32 2X4 LED FLAT PANEL

5W/FT LED TAPE LIGHT

120 - LED

120 - LED -

MARK MANUFACTURER

A1 COLUMBIA

A2 LITHONIA

B LITHONIA

C PRESCOLITE

D OUTPATIENT

U JESCO

EXIT LITHONIA

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Architectural Design Planning



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LOGY ASSOCIATES
ADDITION TOLOGY RMA.

DE



LIGHTING PLAN

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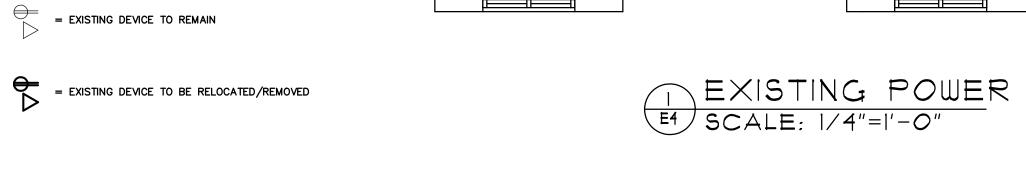
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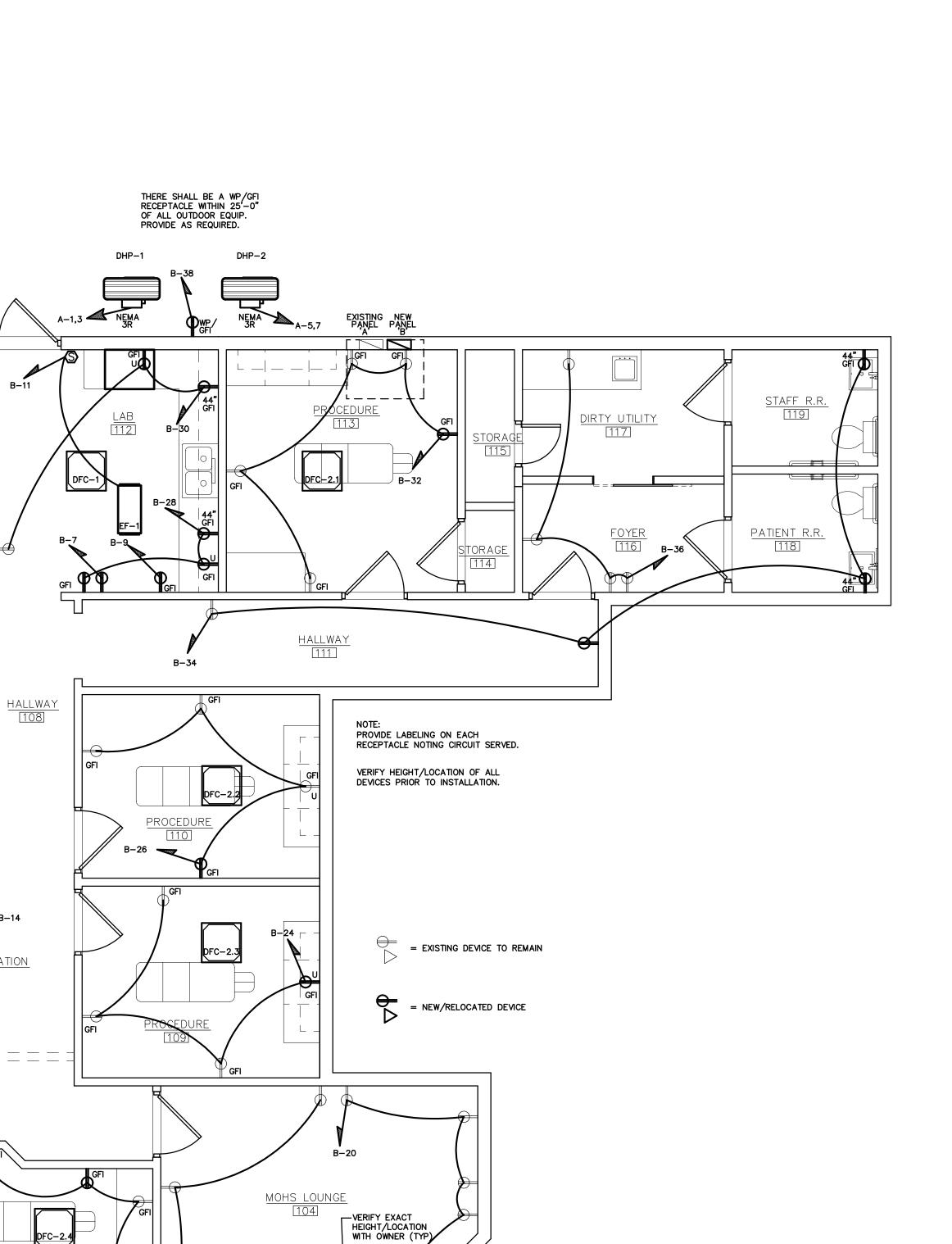
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OF ANY DISCREPANCIES NOTED.

PRESERVE CIRCUITING WHERE POSSIBLE. IN THE EVENT CIRCUITS CANNOT BE PRESERVED, CIRCUIT TO BREAKER SHOWN ON THIS DRAWING.

NOTE: VERIFY ALL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH OWNER/ARCH.



COORDINATE LOCATION OF OF ALL DEVICES IN CABINETRY PRIOR TO ROUGH—IN (TYP)

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LOGY ASSOCIAT ADDITION MOREHEAD CITY, NC DERMA



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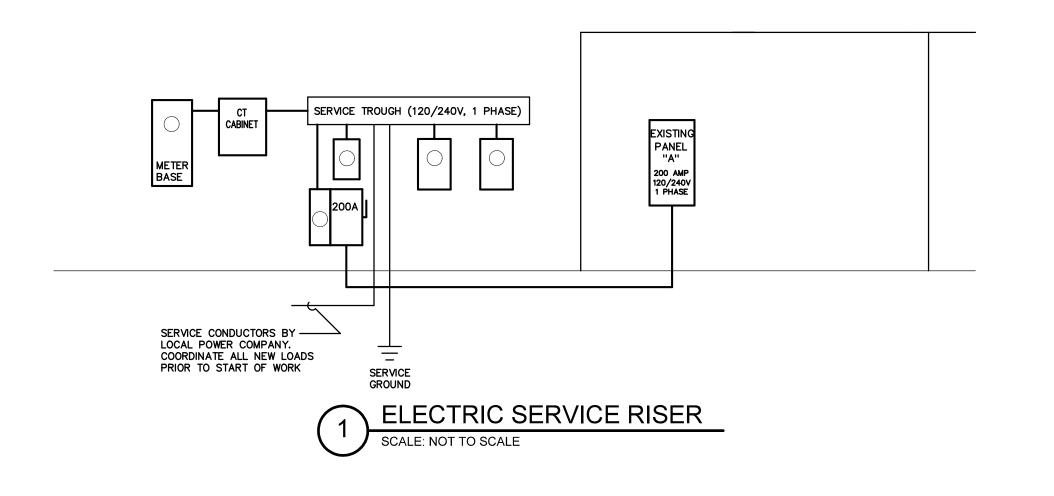
PED FROM: PANEL 'A' LOAD			I K <i>t</i>	1 IIIVG:	<u> </u>		- T 4 7 P	.) WITT I	INTERPRETATION			
FED FROM: PANEL 'A'			CENTED I 14/				TIMOL	. <u>– WII</u>	MLO MAIN CIRCUIT BREAKER			
									EQUIPMENT GROUND BUSXYES □NO SERVICE ENTRY RATED□YES XNO			
LOAD		PROVED E									HIED	
	CKT		ER PHASE	CKT	NEUTRA		CKT		PER PHASE	CKT		LOAD
SERVICE	BRKR	A	В	NO_	A B	\perp	NO	Α	В	BRKR		SERVICE
LTS- HALLWAY	20A	224		1			2	720			REC- WAITI	ING RM
LTS- OVERHEAD IN ROOMS	20A		928	3			4		720	20A	REC- TREA	TMENT RM
LTS- PROCEDURE LIGHTING	20A	842		5	\cap	\cap	6	180		20A	REC- TREA	TMENT RM
REC- CRYOSTAT	20A		840	7	\cap	\cap	8		180	20A	REC- TREA	TMENT RM
REC- CRYOSTAT	20A	840		9	\cap	\cap	10	180		20A	REC- HALL	
EF-1	20A		500	11	\cap	\cap	12		720	20A	REC- SUTU	JRE REMOVAL
SPARE	20A			13	\cap	\cap	14	720		20A	REC- NURS	SE STATION
SPARE	20A			15		\cap	16		900	20A	REC- PROC	CEDURE 105
SPARE	20A			17		$\cap \Gamma$	18	720		20A	REC- MOHS	S LOUNGE
SPARE	20A			19		\bigcap	20		900	20A	REC- MOHS	S LOUNGE
SPARE	20A			21		\bigcap	22	180		20A	REC- MOHS	S LOUNGE
SPARE	20A			23		$\overline{\ }$	24		720	20A	REC- PROC	CEDURE 109
SPARE	20A			25	\cap	$\overline{\ }$	26	720		20A	REC- PROC	CEDURE 110
SPARE	20A			27		$\overline{\ }$	28		540	20A	REC- LAB	
SPARE	20A			29		$\overline{\ }$	30	540		20A	REC- LAB	
SPARE	20A			31		$\overline{\ }$	32		900	20A	REC- PROC	CEDURE 113
SPARE	20A			33		$\overline{\wedge}$	34	720		20A	REC- HALL	
SPARE	20A			35		$\overline{\wedge}$	36		720	20A	REC- 116,1	
SPARE	20A			37		$\overline{\wedge}$	38	180		20A	REC- EXTE	
SPARE	20A			39		$\overline{\wedge}$	40				SPARE	
SPARE	20A			41		$\overline{}$	42				SPARE	
	UB-TOTALS 'B'				4004	Bl					TOTALS 'A'	
1 10123	OD TOTALS D			$\sim\sim$	_100A		JGS				TOTALS 'B'	
					_100A	-	ED				D TOTAL	TOTAL CONNECTED LOAD
					_100A _ <u>VERIFY</u>		ZE	A			/PHASE	
								A	A	AMPS	/FHASE	
NEC ALLOWABLE DEI	MAND FACTO	RS	DIVERSI	FIED	LOAD SU	JMM/	ARY					
(1) DEMAND FACTORS PE	R NEC 220		LOAD	TYPE	<u> </u>	DEM	_	Α	В	TOTAL	. DIVERSIFIE	D LOAD
2 LARGEST OF: NEC TA		GENERAL L	IGHTING	2	125	TOR①						
CONNECTED LOAD		TRACK LIGH	HTING		125	5%						
(3) NEC TABLE 220.56		GENERAL U			≤10KV/							
④ NEC 220.51		RECEPTACL MOTORS AN		PCEST	>10KV/							
5 NEC 220.43A, 200 V/		EQUIPMENT ALL OTHERS 100%										
6 NON-COINCIDENT LOA	ļ	WATER HEATERS 125%										
OF THE TWO LOADS I	}	FIVE STATE OF TOOM										
	ŀ	SHOW WIND			_							
	İ	1059										
	[MISC		DUACE /	100							
		l			PHASE (TOTAL TO	TAL			. VO	LT_AMPS	_ A TOTAL
							MPS	A	A		VOLTS :	AMPS

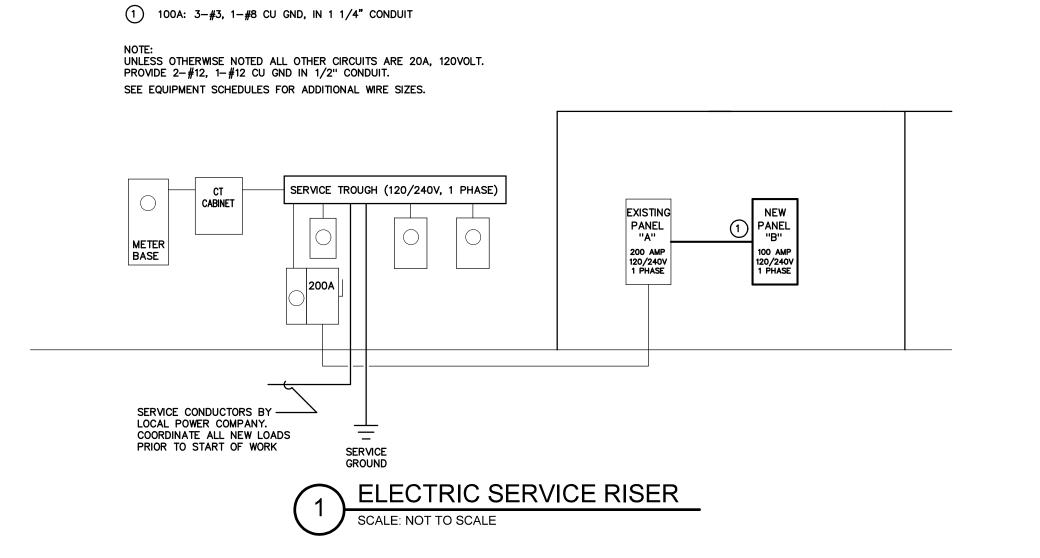
Dermatology Addition E6 EXISTING PANEL— 'A'	TYPE: _	MAKE: <u>SIEMENS</u> RATING: <u>12</u> TYPE: <u>SERIES E</u> MOUNTING: OR APPROVED EQUAL MINIMUM AI					<u> </u>	200AMAIN CIRCUIT BREAKER EQUIPMENT GROUND BUSXYES □NO SERVICE ENTRY RATEDXYES □NO			
LOAD SERVICE	CKT	WATTS PE	ER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS F	PER PHASE B	CKT BRKR		LOAD SERVICE
REC	20A			1		2			20A		SERVICE
LTS	20A			3		4			20A	NEW PHON	E BOARD
REC	20A			5		6			20A	REC	
REC	20A			7		8			20A	EWH	
HP	40A			9		10			40A	HP	
•	404			11		12			+04		
AHU	60A			13		14			60A	AHU	
	OUA			15		16			OUA		
REC	20A			17		18			20A	LTS	
REC	20A			19		20			40A	HP	
REC DED	20A			21		22			40A		
REC DED	20A			23		24			20A	REC	
REC	20A			25		26			20A	REC- DED	
LTS	20A			27		28			60A	AHU	_
LTS	20A			29		30			DUA		
NOTES SUB-T	OTALS 'B'			\bowtie	_200A_	BUS			SUB-	TOTALS 'A'	
					200A	LUGS			_	TOTALS 'B'	TOTAL CONNECTE
					_200A	FEED				D TOTAL	TIOTAL CONNECTE
					VERIFY	SIZE	A	A	AMPS	/PHASE	

Dermatology Addition E6	-	MAKE: <u>SIEMENS</u>			RATING: <u>120/240</u> 1 PHASE <u>3</u> WIRE					200A MAIN CIRCUIT BREAKER			
REVISED PAN	LL- A	TYPE: 🗳	SERIES E	M	MOUNTING: <u>Flush</u>					EQUIPMENT GROUND BUSXYES □NO			
		OR AP	PROVED E	QUAL N	MUMININ	AIC: VERI	FY		SERVICE EN	NTRY R	ATED	XYES □NO	
LOAD		CKT	WATTS PI	ER PHASE	CKT	NEUTRAL	СКТ	WATTS F	PER PHASE	CKT		LOAD	
SERVICE		BRKR	Α	В	NO	A B	NO	Α	В	BRKR		SERVICE	
DHP-1		204	1680		1	$\overline{}$	2			20A	REC		
		20A		1680	3		4			20A	NEW PHON	E BOARD	
DHP-2		T	2772		5		6			20A	REC		
		25A		2772	7		8			20A	EWH		
HP					9		10				HP		
		40A			11		12			40A			
AHU					13		14				AHU		
1110		60A			15		16			60A	1,110		
REC		20A			17		18			20A	LTS		
		20A			19		20			ZUA			
REC		20A		- 	21		22			40A	HP		
REC DED					23					201			
REC DED		20A			25		24			20A	REC		
REC		20A								20A	REC- DED		
NEW PANEL 'B'		100A			27		28			60A	AHU	_	
•	•				29		30				ļ	1	
<u>NOTES</u>	SUB-TO	TALS 'B'			\bowtie	_200A_	BUS				TOTALS 'A'		
						200A	LUGS			SUB-	TOTALS 'B'	TOTAL CONNECTED LOA	
						200A	FEED			GRANI	TOTAL	TOTAL CONNECTED LO	
						<u>VERIFY</u>	SIZE	A	A	AMPS	/PHASE		
NEC ALLOWAB	LE DEMAND	FACTO	RS	DIVERS	SIFIED	LOAD SUN	IMARY						
1) DEMAND FAC	TORS PER NEC	220		LOAI	D TYPI	• .	DEMAND FACTOR(1)	Α	В	TOTAL	. DIVERSIFIE	D LOAD	
	NEC TABLE 22	0.12 OR	ŀ	GENERAL	LIGHTING		125%		 				
CONNECTED L	TRACK LIGHTING 12												
③ NEC TABLE 2		GENERAL USE ≤10KVA											
4 NEC 220.51				The state of the s						 			
(5) NEC 220.43A,	, 200 VA/LINEA	R FT		EQUIPMENT 1000						 			
=	ENT LOADS, LAR	RGEST	į	WATER HEATERS 125%									
	LOADS IS COUN			KITCHEN E			100%						
			-	FIX. ELEC. SHOW WIN			100%						
			}		DOW LIG	HTS S	125%						
				SIGN 125% MISC 100%									
						PHASE (TO	TAL VA)			-			
			L			,	TOTAL		1	1 10	LT AMPS	_ , TOTAL	

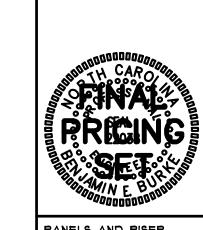
EQUIPMENT WIRING SCHEDULE MCA MOCP VOLTS PH WIRE SIZE EQUIPMENT 14A 20A 240V 1 2-#12, 1-#12 GND IN 1/2" CONDUIT 23A 25A 240V 1 2-#10, 1-#10 GND IN 3/4" CONDUIT

NOTE: THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH—IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.





RISER WIRING SCHEDULE



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PANELS AND RISER

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