2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project Address:	215 Brightwater Driv	ve, Lillington, North Caroli	na	Zip Co	de 27546
		antzler Phone # (910	"		BDANT@capefearvalley.
	zed Agent			Sta	
Owned By:	l 	City/County			
Code Enforcem	ent Jurisdiction:	City	County_	Harnett Sta	ite
CONTACT:					
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL
Architectural	CD Hair Architect, LI	Chris Hair R.A.	15034	(<u>561</u>) <u>209-6050</u>	chris@cdhairarchitect.com
Civil	N/A			_ ()	
Electrical	TYEC Engineers	Andy Youngross	PE 048609	(561) 274.0200	andrew@tecfla.com
Fire Alarm	N/A N/A		_	_ (
Plumbing Mechanical	TYEC Engineers	Andy Voungroop	PE 048609	(<u>)</u> (561) 274.0200	andrew@tecfla.com
Sprinkler-Stand		Andy Youngross	040009	(<u>561</u>) <u>274.0200</u>	andrew@techa.com
Structural	N/A			_ ()	
Retaining Wall				_ (_)	
Other	N/A			- ()	
		dividuals such as truss	, precast, pre-engi	ineered, interior desi	gners, etc.)
CONTRACTOR CONTRACTOR CONTRACTOR CODE	Harnett	New Building 1st Time Interior Com Shell/Core - Contact t procedures and require Phased Construction -	pletion the local inspection	-	
CONTRACTOR TOTAL T	Harnett C O U N T Y NORTH CAROLINA CTING BUILDING UCTED: (date)	1st Time Interior Com Shell/Core - Contact t procedures and require Phased Construction - possible additional pro CODE: EXISTING: Alteration: CURR PROPO CURR CURR CODE: CURR C	pletion the local inspection ements Shell/Core- Cont	n jurisdiction for postact the local inspect tirements Repair Level II perty CY(S) (Ch. 3):	
CONSTRUCTOR 2018 NC EXIS CONSTRUCTOR RENOVA RISK CATEG	Harnett COUNTY NORTH CAROLINA CTING BUILDING UCTED: (date) 20 TED: (date) Sev CORY (Table 1604.5) DING DATA	1st Time Interior Com Shell/Core - Contact t procedures and requir Phased Construction - possible additional pro CODE: EXISTING: Alteration: 10	pletion the local inspection ements - Shell/Core- Contocedures and requivative Prescriptive Level I Historic Property ENT OCCUPAN OSED OCCUPA I II II	n jurisdiction for postact the local inspect direments Repair Level II perty CY(S) (Ch. 3): NCY(S) (Ch. 3): III X IV III X IV	Chapter 14 Level III Change of Use I-2, Condition 2
2018 NC EXIS CONSTRI RENOVA RISK CATEG BASIC BUILLI Construction T	Harnett COUNTY NORTH CAROLINA UCTED: (date) 20 TED: (date) Sev CORY (Table 1604.5) DING DATA Type:	1st Time Interior Com Shell/Core - Contact t procedures and require Phased Construction - possible additional pro CODE: EXISTING: Alteration: 110 CURR PROPO CURR PR	pletion the local inspection ements - Shell/Core- Contocedures and requestate Prescriptive Level I Historic Property ENT OCCUPAN OSED OCCUPA I III II III III III IIII-A	n jurisdiction for postact the local inspect tirements Repair Level II perty NCY(S) (Ch. 3): NCY(S) (Ch. 3): III X IV	Chapter 14 Level III Change of Use I-2, Condition 2 I-2, Condition 2
CONSTRUCTOR Code 2018 NC EXIS CONSTRUCTOR RENOVA RISK CATEG BASIC BUILI Construction 1 (check all that a	Harnett COUNTY NORTH CAROLINA CTING BUILDING UCTED: (date) TED: (date) CORY (Table 1604.5) DING DATA Type: I-A upply)	1st Time Interior Com Shell/Core - Contact t procedures and require Phased Construction - possible additional procedures CODE: EXISTING: Alteration: CURR PROPO CURR PROPO CURR PROPO CURR PROPO CURR II-A II-A II-B	pletion the local inspection ements - Shell/Core- Contocedures and requestive Prescriptive Level I Historic Property OCCUPAN OSED OCCUPA I III III IIII-A	n jurisdiction for postact the local inspect tirements Repair Level II perty CY(S) (Ch. 3): NCY(S) (Ch. 3): III IV IV	Chapter 14 Level III Change of Use I-2, Condition 2 I-2, Condition 2
CONSTRUCTOR Code 2018 NC EXIS CONSTRUCTOR RENOVA RISK CATEG BASIC BUILLI Construction 1 (check all that a Sprinklers:	Harnett COUNTY NORTH CAROLINA CTING BUILDING UCTED: (date) 20 TED: (date) Sev CORY (Table 1604.5) DING DATA Type:	1st Time Interior Com Shell/Core - Contact t procedures and requir. Phased Construction - possible additional pro CODE: EXISTING: Alteration: 110 CURR PROPO CURR PROPO CURR PROPO CURR II-A II-A II-B IX Yes	pletion the local inspection ements - Shell/Core- Contocedures and requivative Prescriptive Level I Historic Property ENT OCCUPAN OSED OCCUPA I III I III I III-A IIII-B	n jurisdiction for postact the local inspect direments Repair Level II perty NCY(S) (Ch. 3): NCY(S) (Ch. 3): III X IV III X IV IV IV	Chapter 14 Level III Change of Use I-2, Condition 2 I-2, Condition 2
2018 NC EXIS CONSTRUCTOR RENOVA RISK CATEGO BASIC BUILLI Construction To (check all that a Sprinklers: Standpipes:	Harnett COUNTY NORTH CAROLINA CTING BUILDING UCTED: (date)	1st Time Interior Com Shell/Core - Contact t procedures and require Phased Construction - possible additional procedures CODE: EXISTING: Alteration: CURR PROPO CURR PROPO CURR II-A II-A II-B IX Yes Class I I II	pletion the local inspection ements - Shell/Core- Contocedures and requestion Prescriptive Level I Historic Property OCCUPAN OSED OCCUPA I III III IIII-A IIII-B IFPA 13 N	n jurisdiction for postact the local inspect irements Repair Repair Level II perty CY(S) (Ch. 3): NCY(S) (Ch. 3): III IV IV IV VFPA 13R NF	Chapter 14 Level III Change of Use -2, Condition 2 -2, Condition 2
2018 NC EXIS CONSTRI RENOVA RISK CATEG BASIC BUILL Construction T (check all that a Sprinklers: Standpipes: Fire District:	Harnett COUNTY C	1st Time Interior Com Shell/Core - Contact t procedures and requir. Phased Construction - possible additional pro CODE: EXISTING: Alteration: TO CURR PROPO CURR PROPO CURR PROPO CURR II-A II-B IX Yes X N Class I III Flood Hazaro	pletion che local inspection ements - Shell/Core- Contocedures and requivative	n jurisdiction for postact the local inspect direments Repair Level II perty NCY(S) (Ch. 3): NCY(S) (Ch. 3): III X IV IV IV NFPA 13R NF NFPA 13R NF Vet Dry NO Yes	Chapter 14 Level III Change of Use I-2, Condition 2 I-2, Condition 2
2018 NC EXIS CONSTRI RENOVA RISK CATEG BASIC BUILL Construction T (check all that a Sprinklers: Standpipes: Fire District:	Harnett COUNTY NORTH CAROLINA CTING BUILDING UCTED: (date)	1st Time Interior Com Shell/Core - Contact t procedures and requir. Phased Construction - possible additional pro CODE: EXISTING: Alteration: 10	pletion che local inspection ements - Shell/Core- Contocedures and requivative	n jurisdiction for postact the local inspect direments Repair Level II perty CY(S) (Ch. 3): NCY(S) (Ch. 3): III X IV III X IV IV VFPA 13R NF Vet Dry Jo Yes Jon jurisdiction for a	Chapter 14 Level III Change of Use -2, Condition 2 -2, Condition 2

Gross Building Area Table
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
3rd Floor
2 nd Floor
Mezzanine
1st Floor EXISTING TO REMAIN
Basement
TOTAL AREA OF RENOVATION: 574 SF
ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional
\mathbf{X} I-2 Condition \square 1 \mathbf{X} 2
\square I-3 Condition \square 1 \square 2 \square 3 \square 4 \square 5
☐ I-4
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous
Accessory Occupancy Classification(s): NONE
Incidental Uses (Table 509): NONE
Special Uses (Chapter 4 – List Code Sections): 407
Special Provisions: (Chapter 5 – List Code Sections): NONE
Mixed Occupancy: No Yes Separation: Hr. Exception:
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by
applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall
be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
<u>Actual Area of Occupancy A</u> + <u>Actual Area of Occupancy B</u> ≤ 1
Allowable Area of Occupancy A Allowable Area of Occupancy B
<u> </u>

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2 ⁴	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
		EXISTING	TO REM	ΔΙΝΙ	
		LXIOTING	J TO KEW	7111	

¹ Frontage area increases from Section 506.3 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
- b. Total Building Perimeter = (P)
- c. Ratio (F/P) = ____ (F/P)
 d. W = Minimum width of public way = ____ (W)
- e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ (%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4.
- ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	EVIC	TING TO REMA	AINI
Building Height in Stories (Table 504.4) ³	EXIC	THING TO KEIVIT	AIIV

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls		E	XISTING 1	O REN	1AIN		
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 Separat	ion						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)
	EXISTING TO I	REMAIN	

LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: No X Yes Exit Signs: No X Yes Fire Alarm: No X Yes Smoke Detection Systems: No X Yes Smoke Detection Systems: No X Yes Smoke Detection: No X Yes LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: Sheet A010 EXISTING TO REMAIN X 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) Actual occupant load for each exit door			
Life Safety Plan Sheet #: Sheet A010 EXISTING TO REMAIN Fire and/or smoke rated wall locations (Chapter 7)			
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) Actual occupant load for each exit door			
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) 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)

N/A

Ì	Total	Accessible	Accessible	Түре А	Түре А	Түре В	Түре В	TOTAL
	Units	Units	Units	Units	Units	Units	Units	ACCESSIBLE UNITS
		REQUIRED	Provided	Required	Provided	REQUIRED	Provided	PROVIDED
ĺ								

ACCESSIBLE PARKING

(SECTION 1106)

EXISTING TO REMAIN

LOT OR PARKING AREA		RKING SPACES	# OF ACC	TOTAL # ACCESSIBLE		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	Т	
			5' ACCESS AISLE	132" ACCESS	8' ACCESS	PROVIDED
				AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) EXISTING TO REMAIN

J	JSE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS	DRINKING	FOUNTAINS		
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

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

DHSR Approval Required

ENERGY SUMMARY EXISTING TO REMAIN

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:	No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide cod	e or statutory reference):
Climate Zone: 3A 4A 5A	A
ASHRAE 90.1	Performance Prescriptive Performance Prescriptive pecify source here)
THERMAL ENVELOPE (Prescriptive method of	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 win U-Value of assembly: Solar heat gain coefficing 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 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	EXISTING TO REMAIN
Live Loads:	Roof psf Mezzanine psf Floor psf	
Ground Snow Load:	psf	
	Itimate Wind Speedxposure Category	mph (ASCE-7)
SEISMIC DESIGN CATEGOR	RY: A B C	D
Provide the following Seismic De Risk Category (Table 1 Spectral Response Acc	604.5)	\square IV S_1 %g
Site Classification (ASC Data Sc	, -	☐ D ☐ E ☐ F Imptive ☐ Historical Data
Basic structural system		Dual w/Special Moment Frame Dual w/Intermediate R/C or Special Steel Inverted Pendulum
Analysis Procedure:	-	uivalent Lateral Force Dynamic
Architectural, Mechan	ical, Components anchored?	Yes No
LATERAL DESIGN CONTRO	DL: Earthquake Wind	
Field Test (provide copy Presumptive Bearing cap Pile size, type, and capac	of test report) pacity	_

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

I nermai Zone	
winter dry bulb:	
summer dry bulb:	
· ———	
Interior design conditions	
winter dry bulb:	
summer dry bulb:	EXISTING TO REMAIN
relative humidity:	LAISTING TO INLINIAIN
returne harmany.	
Building heating load:	
Building cooling load:	
Mechanical Spacing Conditioning System	
Unitary	
description of unit:	
heating efficiency:	
cooling efficiency:	
size category of unit:	
Boiler	
Size category. If oversized, state reason.:	
Chiller	
Size category. If oversized, state reason.:	
List equipment efficiencies:	

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

EXISTING TO REMAIN

EXISTING TO REMAIN
☐ Prescriptive ☐ Prescriptive
ing or space by space)
nce
ו

an Interior Renovation for:

HARNETTHEALTH RADROOM1318

215 Brightwater Drive Lillington, North Carolina

MECHANICAL ELECTRICAL

THOMPSON YOUNGROSS ENGINEERING CONSULTANTS

chris@cdhairarchitect.com artur@tecfla.com (Artur Amarel) GENERAL CONTRACTOR

BLAKE CONTRACTING 1994 REMOUNT ROAD

blake@blakegc.com (Blake Skarpalezos)

Blake Contracting GASTONIA, NORTH CAROLINA 28054 (704) 868.9930

DATE

EQUIPMENT

SHEET INDEX

ELECTRICAL NOTES, LEGEND AND SCHEDULES

ARCHITECTURAL:

ELECTRICAL:

MECHANICAL:

TITLE SHEET

A010 LIFE SAFETY PLAN

A210 DEMO AND FLOOR PLAN

A910 ICRA COORDINATION PLAN

E1.1 FIRST FLOOR ELECTRICAL PLAN

M1.1 FIRST FLOOR MECHANICAL PLAN

FIRST FLOOR LIGHTING PLAN

SIEMENS REFERENCE DESIGN PLANS SIEMENS REFERENCE DESIGN PLANS

A410 DEMO AND REFLECTED CEILING PLAN



PROJECT SCOPE

THE PROJECT INVOLVES AN EQUIPMENT CHANGE-OUT WITHIN AN EXISTING ROOM ON THE FIRST FLOOR WITHIN AN EXISTING IN-PATIENT, HOSPITAL. THE NEWLY RENOVATED SPACE WILL BE USED AS A RAD ROOM. (NO CHANGE TO THE EXISTING FUNCTION OF THE ROOM) ,NO NEW WALLS, DOORS OR OTHER LAYOUT CHANGES ARE IN THIS SCOPE OF THE RAD ROOM WORK. THE EXISTING FLOOR FINISHES SHALL BE REPLACED, THE EXISTING MILLWORK WILL REMAIN. THE EXISTING LIGHTING SHALL BE REPLACED. THE EXISTING HVAC SHALL REMAIN. THE BUILDING IS MULTI STORY AND ASSUMED TO BE TYPE I-B. THE SCOPE AREA IS PROTECTED BY A FULLY AUTOMATIC FIRE-SPRINKLER SYSTEM.

DHSR PROJECT NO.: HL-12893

AREA CALCULATIONS:

INSTITUTIONAL I-2

SCOPE AREA WITHIN EXIST. HOSPITAL

OCCUPANCY LOAD CALCULATIONS:

574 SF

2018 NORTH CAROLINA STATE BUILDING CODE BASED ON IBC - 2015 INTERNATIONAL BUILDING CODE W,

AMENDMENTS

IEBC - 2015 INTERNATIONAL EXISTING BUILDING CODE, '15 INTERNATIONAL FUEL GAS CODE, '15 INTERNATIONAL MECHANICAL CODE, '15 INTERNATIONAL PLUMBING CODE, 2018 FGI GUIDELINES OUTPATIENT FACILITIES, ICC / ANSI-A117.1-2013 ADA STANDARDS, 2017 NCSEC, 2005 U.S. PUBLIC HEALTH CODE, NORTH CAROLINA ADMIN. CODE,

DHSR RULES AND REGULATIONS

GROUP I-2 (INSTITUTIONAL) OCCUPANCY:

REQUIRED SEPARATION: *NO SEPARATION REQUIRED TO ADJACENT GROUP 'I'

> **TENANTS** TYPE I-B

CLASSIFICATION OF WORK: ALTERATION - LEVEL 2

REQUIRED PROVIDED MIN STAIR WIDTH: N/A

MAX COMMON PATH OF TRAVEL: 75' 36'-3" MAX TRAVEL DISTANCE: 105'-6"

MAX DEAD END: N/A 20'

* BUILDING IS PROVIDED WITH A FULLY AUTOMATIC SPRINKLER SYSTEM

LIFE SAFETY CODE

2015 INTERNATIONAL FIRE CODE GOVERNING CODES:

NCBC - FPC

NFPA 101 LIFE SAFETY CODE - 2012 ED.

NFPA 13 LIFE SAFETY CODE - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2013 ED.

OCCUPANCY:

NO. OF EXITS:

(INSTITUTIONAL)

MAX COMMON PATH OF TRAVEL: 75' 36'-3" MAX TRAVEL DISTANCE: 105'-6" N/A MAX DEAD END: 20'

0



TITLE SHEET

C.D. HAIR ABOUT SAULE HO SOUTH HOSE SOUTH HOSE SOUTH HOSE WORTH, FL



REQUIRED PROVIDED

* BUILDING IS PROVIDED WITH A FULLY AUTOMATIC SPRINKLER SYSTEM

ARCHITECT C.D. HAIR ARCHITECT L.L.C.

8401 LAKE WORTH ROAD, SUITE 119 LAKE WORTH, FLORIDA 33467

(561) 209.6050

902 CLINT MOORE ROAD, SUITE 142 BOCA RATON, FLORIDA 33487

(561) 274.0200

PROJECT DATA

PROJECT CODE TABULAR HARNETT COUNTY MUNICIPALITY: **GOVERNING CODES:**

TYPE OF CONSTRUCTION:

574 S.F. / 240 GROSS = 2.39 (3 PEOPLE)

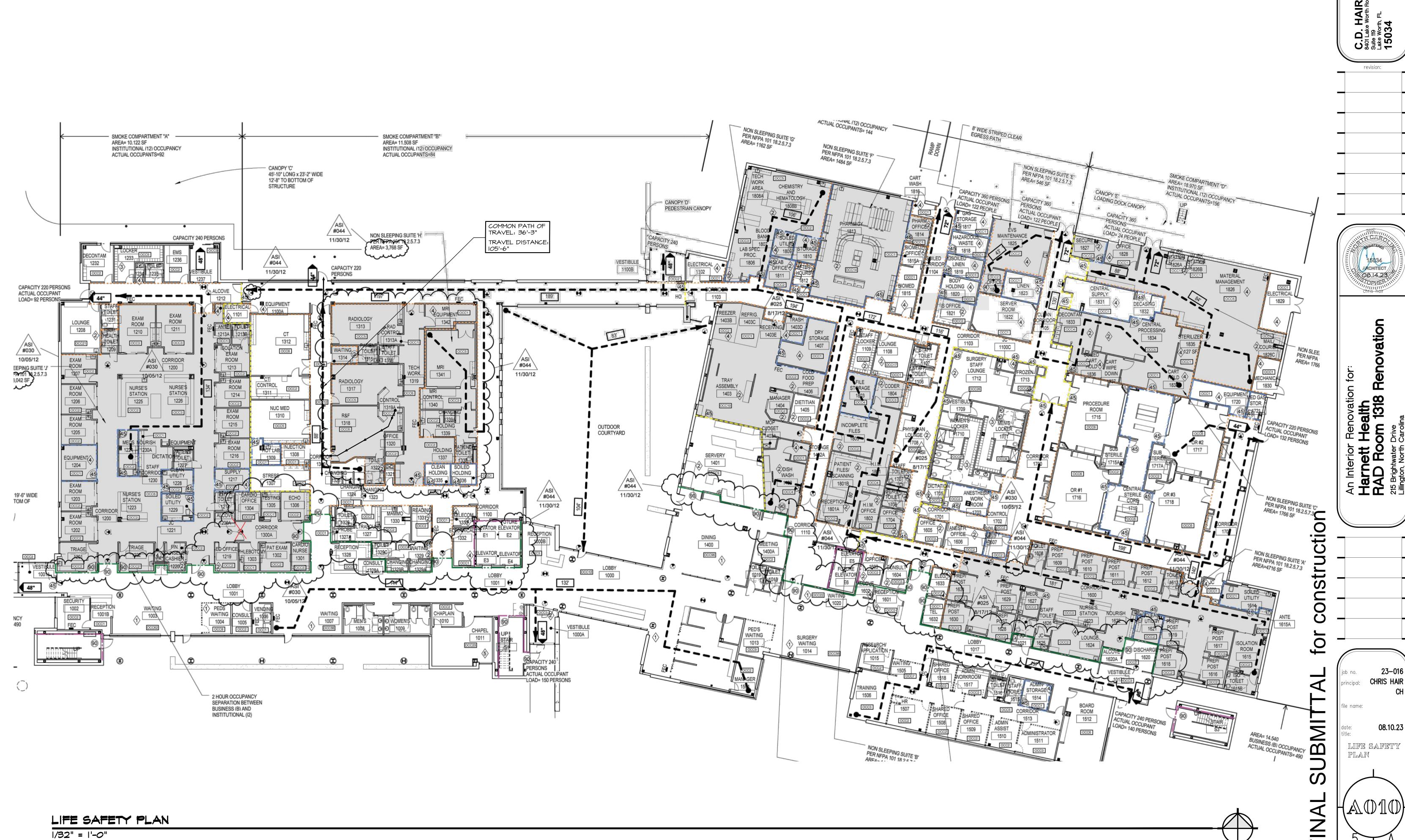
YICINITY SKETCH NOT TO SCALE

BUILDING KEY PLAN



SCOPE AREA WITHIN BUILDING -





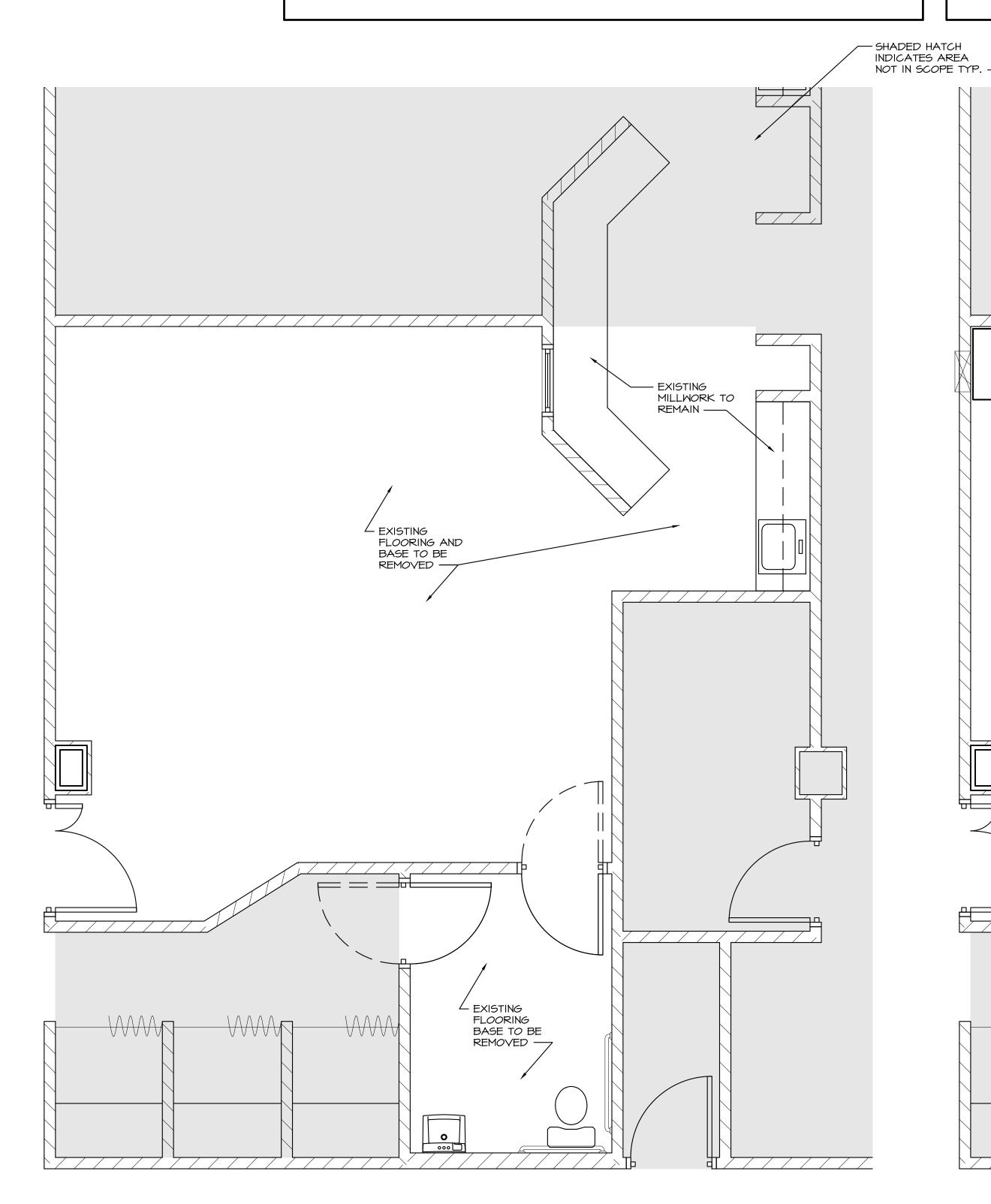
C.D. HAIR ARCHITECT
8401 Lake Worth Road
Suite 119
Lake Worth, FL
15034

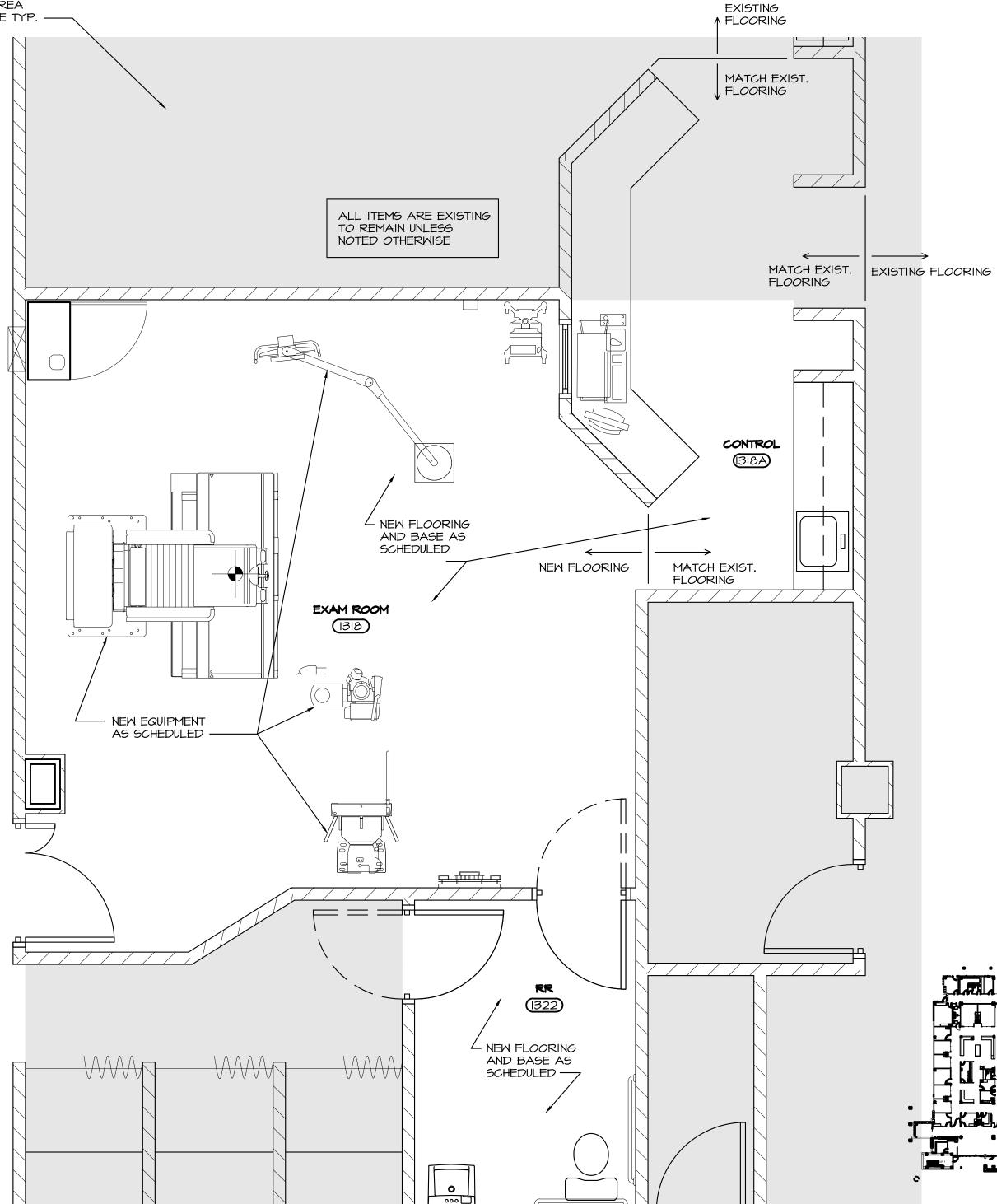
FINISH SCHEDULE						
		REMARKS				
ROOM #	DESCR.	FLOOR	WALLS	BASE	CEILING	
1318	EXAM ROOM	5V-I	PT-I	CB-I	AC-I	
1318A	CONTROL	5V-I	PT-I	CB-I	EX	
l322	RESTR <i>OO</i> M	5V-I	PT-I	CB-I	EX	

ABBREV. UNO = UNLESS OTHERWISE NOTED, MS = MANUFACTURER STANDARD, EX = EXISTING, EXP = EXPOSED ALL FINISHES TO BE VERIFIED BY OWNER PRIOR TO PURCHASE AND INSTALL.

MANUFACTURER SPECIFICATIONS					
	MANUF. MODEL REMARKS				
DESCR.					
SHEET VINYL (SV-I)	ME	ME	MATCH EXISTING ADJACENT		
COVE BASE (CB-I)	ME	ME	4" INTEGRAL FLASH COVE BASE		
PAINT (PT-I) PAINT (PT-2)	ME ME	LATEX PAINT LATEX PAINT	MATCH EXISTING ADJACENT MATCH EXISTING ADJACENT		
· · · · · · · · · · · · · · · · · · ·					

ABBREV. UNO = UNLESS OTHERWISE NOTED, MS = MANUFACTURER STANDARD, EX = EXISTING, EXP = EXPOSED, ME = MATCH EXISTING ALL FINISHES TO BE VERIFIED BY OWNER PRIOR TO PURCHASE AND INSTALL. NOTES





DEMOLITION NOTES:

- I. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING INSTALLATIONS ABOVE THE CEILING. EXISTING WALLS SHALL BE PATCHED WHERE ITEMS WERE REMOVED TO MATCH ADJACENT SURFACES.
- 2. DUST BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED THROUGH THE COURSE OF CONSTRUCTION TO MINIMIZE THE SPREAD OF CONSTRUCTION DUST.
- 3. PROTECT EXISTING WALLS TO REMAIN. ALL EXISTING WALLS TO REMAIN TO BE FINISHED TO ACHIEVE 'AS NEW' APPEARANCE.
- 4. CONTRACTOR TO PROTECT OR REMOVE CEILING TILE AS REQUIRED IN AREAS WHERE EQUIPMENT IS BEING INSTALLED.
- 5. PATCH EXISTING CEILINGS AS REQUIRED DUE TO INSTALLATION OF OVERHEAD EQUIPMENT.
- 6. REMOVE EXISTING LIGHTING AS SCHEULED. EXISTING FIRE SPRINKLER HEADS TO BE LEFT INTACT.

SYMBOL LEGEND:

EXISTING WALL TO REMAIN

EXISTING WINDOW TO REMAIN

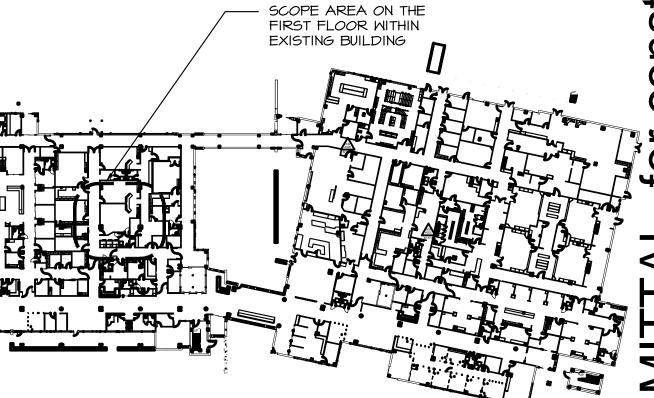
EXISTING DOOR TO REMAIN

PLAN NOTES:

- I. CONTRACTORS TO VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCEMENT AND REPORT ANY DISCREPANCIES TO THE
- 2. ALL PENETRATIONS, NEW AND EXISTING THROUGH RATED PARTITIONS MUST MEET UL APPROVED STANDARDS - SUBMIT SYSTEM TO ARCHITECT FOR APPROVAL. FIELD VERIFY PRIOR TO BID.
- 3. PROVIDE SOLID WOOD BACKING FOR ALL WALLS TO RECEIVE COUNTERS. CABINETS, DOOR STOPS, SINKS, TOILET ACCESSORIES, CHAIR RAILS, AND OTHER RELATED INSTALLATIONS. THE INSTALLATIONS SHALL BE INSPECTED BY THE ARCHITECT PRIOR TO COVERING WITH DRYWALL.
- 4. THE NOTE HOLD ON DIMENSION STRINGS INDICATE MINIMUM CLEAR FINISH DIMENSIONS.
- 5. PENETRATIONS THROUGH FIRE RATED PARTITIONS WILL BE FIRE CAULKED WITH THE UL SYSTEM NO. W-L-1049.

FINISH NOTES:

- I. ALL FINISHES SHALL MEET THE REQUIREMENTS OF NCBC 2018 CHAPTER 8, TABLE 803.II: • <u>VERTICAL EXITS AND EXIT PASSAGEWAYS</u> - CLASS B • EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS - CLASS C • ROOMS AND ENCLOSED SPACES - CLASS C
- 2. ALL FINISHES TO BE APPROVED BY TENANT PRIOR TO
- 3. PROVIDE APPROPRIATE HANDICAP ACCESSIBLE THRESHOLDS WHERE FLOOR CHANGES MATERIAL.
- 4. SEE FINISH SCHEDULE FOR PLASTIC LAMINATE COLORS.
- 5. ALL EXISTING DRYWALL WALLS WITHIN THE SCOPE AREA SHALL BE PAINTED W/ TWO COATS FLAT FINISH LATEX PAINT AS REQUIRED TO COVER. ALL WALLS SHALL THEN BE PAINTED WITH ONE COLOR, ONE COAT, SEE FINISH SCHEDULE FOR COLORS.
- 6. THE EXISTING DOORS SHALL BE REFINISHED TO MATCH THE EXISTING ADJACENT.
- 7. PROVIDE MINIMUM CLASS II FLOOR FINISH MATERIALS TO COMPLY WITH MINIMUM CRITICAL RADIANT FLUX IN EXIT PASSAGEWAYS AND CORRIDORS. ALL OTHER AREAS MUST COMPLY WITH THE DOC FF-I 'PILL-TEST' (CPSC 16 CFR, PART 1630)
- 8. PAINT NEW EXPOSED ELECTRICAL CABLE DUCTING AND CONDUIT, COLOR TO MATCH WALLS.
- 9. PAINT DOOR AND WINDOW FRAMES WITH TWO COATS SEMI GLOSS



FIRST FLOOR PLAN

3/8"=1'-0"



OVERALL FIRST FLOOR PLAN



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An Interior
Harnett
RAD Roc
215 Brightwater [Lillington, North of

HAIR e Worth Roa

C.D. | 8401 Lake Suite 119 Lake World 15034



3/8"=1'-0"

CEILING DEMOLITION LEGEND:

EXISTING LIGHT FIXTURE TO BE SALVAGED FOR REINSTALLATION

SALVAGED FOR REINSTALLATION

EXISTING RETURN REGISTER TO BE

BE REMOVED

EXISTING ACOUSTICAL CEILING AND GRID TO

EXISTING LIGHT FIXTURE TO BE REMOVED

EXISTING SUPPLY REGISTER TO BE

SALVAGED FOR REINSTALLATION

EXISTING CEILING AND INSTALLATIONS TO REMAIN

EXISTING FIRE SPRINKLER HEAD TO BE SALVAGED FOR REINSTALLATION

- MODIFY EXISTING - EXISTING CEILING - PATCH AND TO BE REMOVED REPAIR EXISTING UNISTRUT SUPPORT SYSTEM TO THIS AREA CEILING THIS AREA ACCOMMODATE NEW LAYOUT * DEMO | EXISTING \$ PATCH AND REPAIR EXISTING CEILING THIS AREA

DEMOLITION CEILING PLAN

3/8"=1'-0"

CEILING LEGEND:

EXISTING REINSTALLED 2' x 4' LED LIGHT FIXTURE

NEW 6" RECESSED DIMMABLE LED CAN LIGHT FIXTURE

EXISTING REINSTALLED SUPPLY REGISTER

EXISTING REINSTALLED RETURN REGISTER

EXISTING REINSTALLED FIRE SPRINKLER HEAD

NEW 2 X 2 CEILING IN NEW GRID - PROVIDE TILE AS SPECIFIED

D = DIMMABLE

ALL ITEMS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE - NEW OVERHEAD SUPPORT --- \bigcirc ┾═══╘┸════╞═╫═══╺┿╪════╫═╞════╘╒═╈╪═══╫╞════╬╞═══╣╫═╞╸ NEW | EXISTING

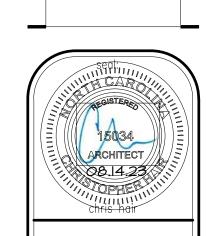
REFLECTED CEILING PLAN

3/8"=1'-0"

CEILING NOTES:

- I. ALL CEILING MOUNTED ITEMS, INCLUDING LIGHTS, AND HVAC REGISTERS, SHALL BE CENTERED IN THE TILE. ANY CONFLICTS SHALL BE REPORTED TO THE ARCHITECT UPON DISCOVERY. UNDER NO CIRCUMSTANCES SHALL ANY ITEM BE RELOCATED WITHOUT THE ARCHITECTS APPROVAL.
- 2. ALL RECTANGULAR ROOMS SHALL HAVE EQUAL BORDERS UNLESS NOTED OTHERWISE. SEE THE PLANS FOR DENOTED STARTING POINTS AND POINTS OF ALIGNMENT.
- 3. ALL CEILING HEIGHTS FOR SUSPENDED CEILINGS ARE INDICATED ON THE CEILING PLAN.
- 4. ALL NEW CEILING GRID SHALL BE ATTACHED TO THE ROOF / FLOOR JOISTS ABOVE AT 4'-O" O.C. (MAX) WITH ASTM A64I, CLASS I ZINC COATED, SOFT TEMPER, PRE-STRECHED HANGER WIRE (I2 GA) MINIMUM. ALL HANGER WIRE SHALL BE INSTALLED PLUMB AND STRAIGHT. GRID SUSPENSION SYSTEM TO MEET ASTM 635-636.

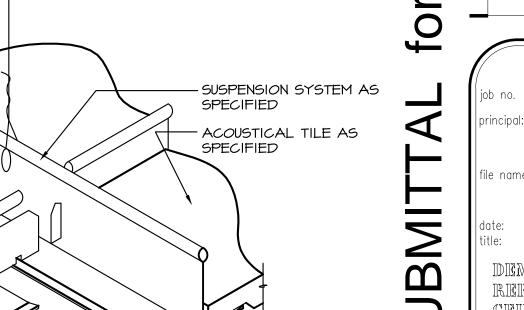
C.D. HAIR ARCHITECT
8401 Lake Worth Road
Suite 119
Lake Worth, FL
15034



An Interior Renovation for:

Harnett Health
RAD Room 1318 Renovation
215 Brightwater Drive
Lillington, North Carolina

#12 GA. MIN. HANGER WIRE @48" O.C. MAX. EA. WAY (MAX. 16 S.F. SUPPORTED AREA)



CEILING GRID DETAIL

3" = 1'-0"

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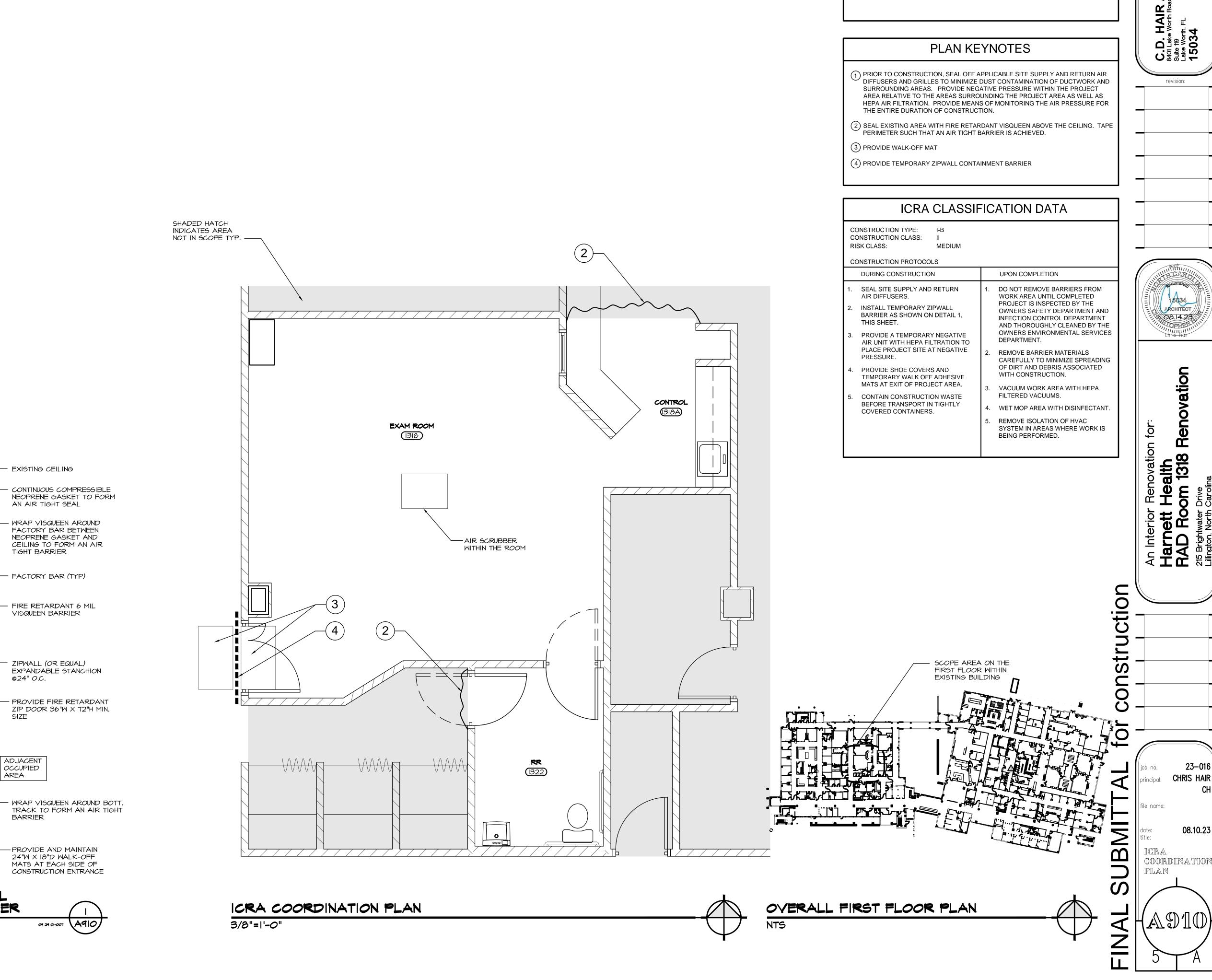
job no. 23-016
principal: CHRIS HAIR
CH
file name:

date: 08.10.23
title:

DEMO AND
REFLECTED
CELLING PLAN
5

struction

COU



@24" O.C.

ADJACENT OCCUPIED

BARRIER

AREA

PROJECT SITE -NEGATIVE

PRESSURE

3" = 1'-0"

TEMPORARY ZIPWALL CONTAINMENT BARRIER

ICRA PLAN NOTES

THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE AND NOTIFY THE ARCHITECT IMMEDIATELY OF DISCREPANCIES.

23-016 CHRIS HAIR

08.10.23

COORDINATION

ELECTRICAL NOTES

GENERAL CONTRACTOR.

PLASTIC COVERS.

- THE CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2018 NORTH CAROLINA STATE BUILDING CODE, 2017 NEC, 2015 NFPA101, 2013 NFPA72, AND ALL LOCAL CODES. ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES AND
- DO NOT SCALE DRAWINGS: VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
- WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATABLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS. LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW
- PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL
- 10. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, CONSISTENT WITH THE HIGHEST LEVEL OF STANDARDS AND TO THE SATISFACTION OF THE ARCHITECT.
- ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.
- . PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.
- 13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH—IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE
- 16. THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ELECTRICAL UTILITY COMPANY FURNISHED CONDUIT FOR THE PRIMARY CONDUCTORS FROM THE PRIMARY POINT OF CONNECTION TO THE PAD MOUNT TRANSFORMER. PROVIDING A CONCRETE PAD PER ELECTRICAL UTILITY CO. REQUIREMENTS, AND TO COORDINATE WITH ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ ENGINEER PRIOR TO COMMENCEMENT OF WORK.

- 18. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION
- WRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE, FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.
- . ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULL WIRE OR EQUIVALENT AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS
- OF EACH INDIVIDUAL CONDUIT. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, SUBMITTAL SHALL BE SUBMITTED IN PDF FORM WITH CONTRACTOR APPROVAL PRIOR TO SUBMITTAL. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS,
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- 23. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.

LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.

- SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE. 25. RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR
- 26. BOXES FOR TELEPHONE, T.V., COMPUTER, WIRING DEVICES, ETC., SHALL BE MINIMUM 4" SQUARE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL AND INTERIOR DRAWINGS FOR ALL ROUGH-IN LOCATIONS FOR APPLIANCES. IF NO LOCATION IS INDICATED, THE CONTACTOR SHALL NOTIFIY THE ARCHITECT IN WRITING FOR
- 27. GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS TO COMPLY WITH NEC 517. 13 (A) & (B) AND NEC 517.31
- 28. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITIES
- 29. THE LIGHTING HAS BEEN DESIGNED IN ACCORDANCE OF THE STATE OF NORTH CAROLINA STATE BUILDING CODE, ENERGY EFFICIENCY CODE, CHAPTER 13 (2018)
- 30. VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED WITH A MAXIMUM OF 5 PERCENT VOLTAGE DROP TOTAL. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH CHAPTER 13 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.
- THE CONTRACTOR SHALL HAVE A QUALIFIED PERSON COMMISSION ALL LIGHTING CONTROL SYSTEMS PRIOR TO OBTAINING THE C.O. THE PERSON SHALL TRAIN THE OWNER ON THE OPERATION OF THE LIGHTING CONTROLS.
- 32. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUIVALENT PROTECTION. MET FITTINGS SHALL BE MALLEABLE IRON OR STEEL.
- NON-METALLIC AND FLEXIBLE CONDUITS SHALL FIXVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).

- 35. THE CONTRACTOR SHALL PROVIDE GFCI PROTECTION FOR PERSONNEL AS PER 2017 NEC 210.8(B).
- 36. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- WHERE PANELS ARE INSTALLED FLUSH WITH WALLS. EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4"C. SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. FLUSH MOUNTED PANEL SHALL BE INSTALLED IN 6" WALLS. COORDINATE WITH
- WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR
- ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., IN MOTOR CONTROL STARTERS AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSH BUTTONS OR SELECTOR SWITCH AS REQUIRED. IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED, SUBMIT ELEMENTARY CONTROL DIAGRAMS FOR APPROVAL. SUBMITTALS SHALL INCLUDE INDICATION OF PRIOR REVIEW AND ACCEPTANCE BY TEMPERATURE CONTROL CONTRACTOR. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- RECEPTACLE AND TELEPHONE OUTLETS AT COUNTER SHALL BE MOUNTED WITH THEIR LONG AXIS HORIZONTAL AT +42" UNLESS NOTED.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR
- 42. DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS "R" FUSES ONLY AND REJECT ALL OTHERS.
- 43. PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- 44. DEVICES SHALL BE AS FOLLOWS: (OR OTHERWISE AS NOTED)
- RECEPTACLES HUBBELL #5362 SERIES
- SWITCHES HUBBELL #1221 SERIES DIMMERS - LUTRON "NOVA" SERIES.
- THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT. IN DAMP OR WET LOCATIONS COVER PLATES SHALL BE STAINLESS STEEL. IN DRY LOCATIONS COVER PLATES SHALL BE SMOOTH HIGH ABUSE NYLON OR EQUIVALENT. PROVIDE COVER PLATES FOR SWITCHES, RECEPTACLES, TELEPHONE, TELEVISION, COMPUTER, AND J-BOX OUTLETS AS REQUIRED.
- 45. THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR PROVIDING THE REQUIRED CONDUIT SIZE AND NUMBER TO THE TENANT SPACE. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL CORDS AND SHALL INSTALL FROM THE LOCAL TELEPHONE BOARD TO THE MAIN POINT OF SERVICE
- 46. FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES. EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED
- 7. SEE DIVISION 22 & 23 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.

TYPE

48. SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT

NOTE

ED EMERGENCY LIGHT W/90 MIN EM BATTERY LITHONIA

6" ROUND LED DOWNLIGHT

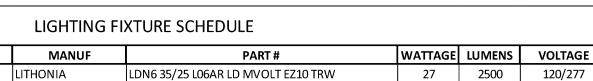
- 49. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMANN OR
- 50. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300, OF THE NEC.
- PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
- 52. PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF
- 53. FLUSH FLOOR RECEPTACLE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-3725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
- 54. FLUSH FLOOR TELEPHONE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-2725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
- 55. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
- 56. RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED. 57. FIXTURES RECESSED IN "T-BAR" U.L. FIRE RATED CEILING ASSEMBLIES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE
- 58. CONDUITS PENETRATING THRU ROOF SHALL HAVE FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.

SHALL BE MADE WITH FLEXIBLE U.L. APPROVED ASSEMBLY.

- 59. PROVIDE A GREEN GROUND CONDUCTOR AND METAL RACEWAY IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS & PATIENT CARE ROOMS AS PER 2017 NEC 517.13. PROVIDE EMT METAL RACEWAY OR HEALTH CARE RATED MC CABLE AS PER 2017
- 60. AN ISOLATED GROUND RECEPTACLE SHALL NOT BE INSTALLED WITHIN A PATIENT CARE VICINITY AS PER 2017 NEC 517.16
- 61. AUTOMATIC LIGHTING CONTROL DEVICES SHALL COMPLY WITH NFPA 101: 7.8.1.2.2 (1) THROUGH (7).
- 62. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL CONTROL DEVICES (OCCUPANCY/VACANCY SENSORS) WITH THE CORRECT CIRCUIT. ACCORDING TO CIRCUIT PANEL DESIGN FOR MAINTENANCE AS REQUIRED BY NEC 408.4.

63. ADDITIONAL NOTES FOR NEW PANELBOARDS:

- A. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
- B. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0"
- C. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
- D. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES.
- E. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E. TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED
- CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS
- TWO (2), SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE. G. ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.



ELECTRICAL SYMBOL LIST

		1	
S	WALL SWITCH - 1 POLE - 125V - 20 AMP. MOUNT 46" A.F.F. 42" A.F.F. @ COUNTERTOPS OR AS NOTED. QUIET TYPE.	W.P.	WEATHERPROOF
S_3	WALL SWITCH - 3 WAY - 125V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED	I.G.	ISOLATED GROUND
S _D	DIMMER SWITCH — 125V — 1000W — 20 AMP, MOUNT 46" A.F.F. OR AS NOTED	N.L.	NIGHT LIGHT
_	·	EM.	EMERGENCY
S _M	MOTOR RATED "SNAP" SWITCH - 125V - 20 AMP, MOUNT AS NOTED	E OR EX	EXISTING
<u>0</u> 3	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 120V-800W-6.7 AMP, MOUNT 46" A.F.F. OR AS NOTED. DUAL TECHNOLOGY	N.	NEW
®	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-800W-6 AMP, CEILING MOUNT OR AS NOTED. DUAL TECHNOLOGY	\blacksquare	EMERGENCY POWER OFF (EPO) BUTTON
(CS)	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-800W-6 AMP, CEILING MOUNT FOR CORRIDOR OR AS NOTED. DUAL TECHNOLOGY		X-RAY "IN USE" LIGHT
\(\operatorname(\pi)\)	HOSPITAL GRADE DUPLEX RECEPTACLE — 125V — 20 AMP — NEMA 5—20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED		X-RAY "IN USE" LIGHTING CONTROL PANEL
#	HOSPITAL GRADE QUAD RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED	(S)	DOOR SAFETY SWITCH
GFI	DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT.		DOOK SALETT SWITCH
#	125V - 20 AMP - NEMA 5-20R		RECESSED LED DOWNLIGHT, SEE LUMINAIRE LIST.
•	JUNCTION BOX MOUNTED ABOVE CEILING.		2' x 4' LED LAY-IN TROFFER, SEE LUMINAIRE LIST.
Ю	JUNCTION BOX RECESS OR MOUNTED IN WALL.		
TV	TELEVISION OUTLET MOUNT 15" A.F.F. OR AS NOTED, PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J—BOX AND CONDUIT WITH CABLING CONTRACTOR.		EMERGENCY BATTERY PACK WITH LAMPS, SEE LUMINAIRE LIST.
•	ETHERNET OUTLET. MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J—BOX AND CONDUIT WITH CABLING CONTRACTOR.		EXISTING 2' x 4' LAY-IN TROFFER.
			ELECTRICAL CONDUIT CONCEALED IN WALLS OR IN CONCRETE
Æ	EXHAUST FAN - FRACTIONAL HORSEPOWER.		ELECTRICAL CONDUIT UNDERGROUND
/2/	MOTOR - NUMBER DENOTES HORSEPOWER.	/ ·-·-·	ELECTRICAL CONTROL WIRING
[]//////	PANELBOARD		ELECTRICAL WIRE HOME—RUN, 1ST HASH MARK REPRESENTS THE HOT,
3P NF	NON-FUSED DISCONNECT SWITCH.	11/10	SECOND HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPESENTS THE GROUND
3P ²⁰ ₩	FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER ENCLOSURE.	- MRC	ELECTRICAL MULTI-WIRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOT'S, HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND, NUMBER OF ARROWS INDICATE
	PUSH BUTTON	"""	NUMBER OF CIRCUITS
		WC .	ELECTRICAL WRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOT'S, ARC WIRE MARK REPRESENTS THE GROUND

ELECTRICAL DRAWING LIST DRAWING DRAWING NAME NUMBER ELECTRICAL NOTES, LEGEND AND SCHEDULES FIRST FLOOR ELECTRICAL PLAN FIRST FLOOR LIGHTING PLAN SIEMENS REFERENCE DESIGN PLANS

SIEMENS REFERENCE DESIGN PLANS

NOTE

120/277

120/277

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE

PLANS OR NOT.

2522 S.E. COLUSA AVE. PORT ST. LUCIE, FLORIDA TEL: 561-900-2447

FAX: 561-274-0222

E-MAIL: andrew@tecfla.com

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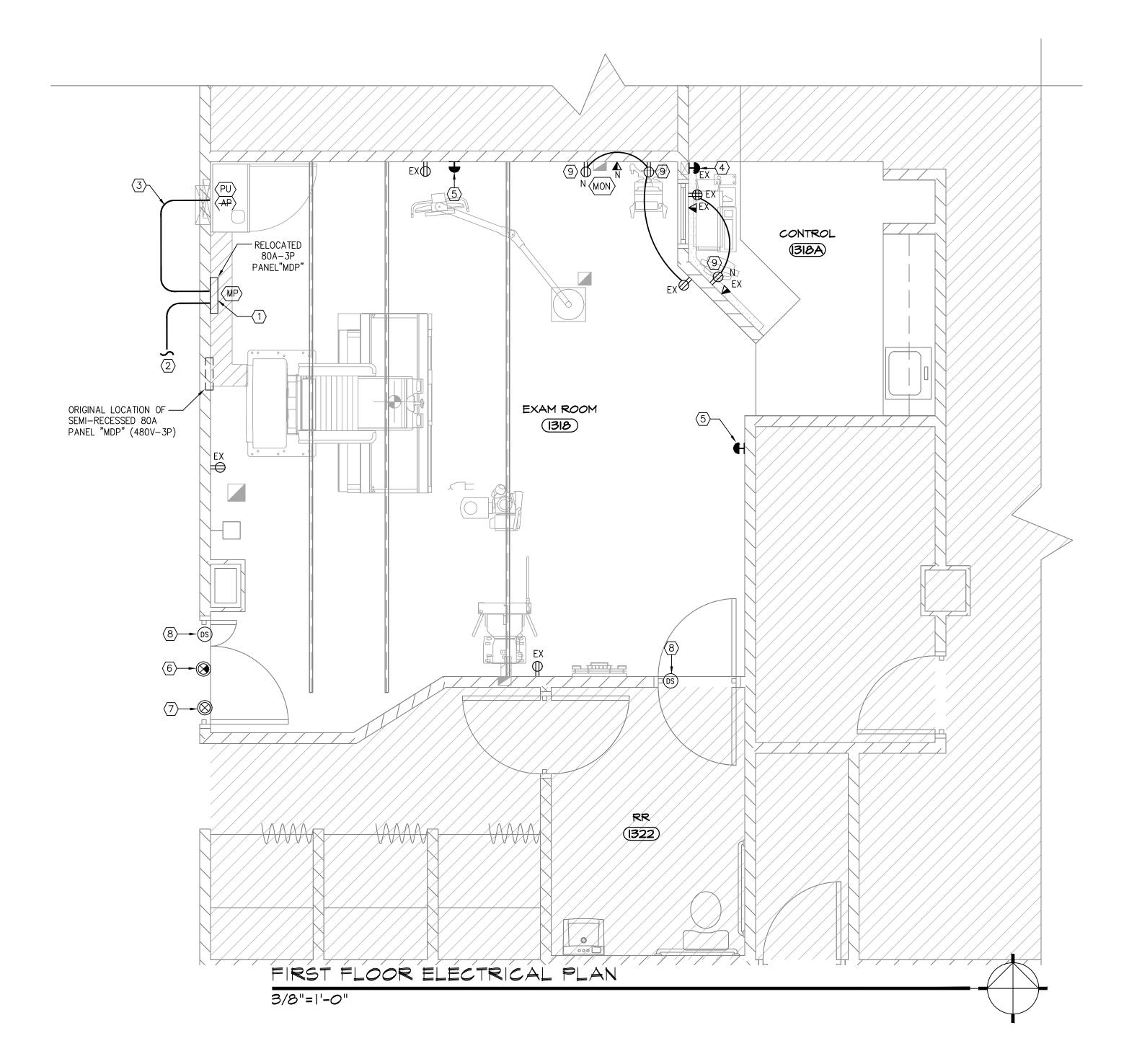


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> 08.10.23 notes, legend and schedules

PLUMBING **ELECTRICAL**



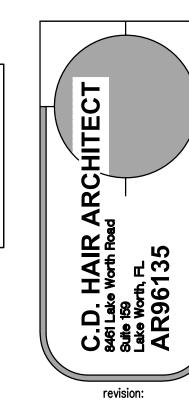
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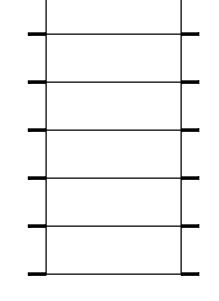
- SEE SIEMENS ELECTRICAL DRAWINGS ON SHEETS E3.1, AND E3.2 FOR WORK SCOPE REQUIRED.
- PROVIDE LABOR AND MATERIALS TO INSTALL NEW OVERHEAD AND IN FLOOR RACEWAY TO ACCOMODATE NEW
- RAD EQUIPMENT TOO ADAPT TO EXISTING RACEWAY.. PROVIDE POST TESTING OF ROOM FOR GROUND IMPEDANCE.

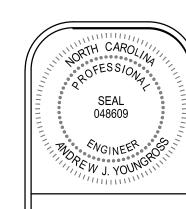
PLAN KEY NOTES

- RELOCATED SEMI -RECESSED MAIN DISTRIBUTION PANEL "MDP". PANEL "MDP" HAS 100A CIRCUIT BREAKER (WITH 80A PLUG) AND 150A LOW PEAK FUSES IN SERIES (480V-3P). SEE SHEETS E3.1 (SIEMENS), E3.2 (SIEMENS) AND E4.1 (ELECTRICAL RISER) FOR ADDITIONAL INFORMATION. NOTE: PANEL "MDP" REQUIRES 48" DEEP X 30" WIDE CLEARANCE IN FRONT OF THE PANEL. VERIFY WITH SIEMENS REPRESENTATIVE IF THE LOCATION SHOWN IS ACCEPTABLE PRIOR TO COMMENCEMENT OF WORK - AN ALTERNATE LOCATION MAY BE REQUIRED.
- PROVIDE 20" X 20" SPLICE BOX ABOVE THE CEILING IN THE AREA OF ORIGINAL PANEL "MDP". INTERCEPT THE EXISTING CONDUIT/ CONDUCTORS FEEDING PANEL "MDP" & EXTEND TO RELOCATED PANEL "MDP" (3#2 CU & 1#2 CU GRD IN 1-1/4" CONDUIT) USE POLARIS TAPS. NOTE: SIEMENS DESIGN DRAWINGS REQUIRE THE GROUND CONDUCTOR TO BE THE SAME SIZE AS THE PHASE CONDUCTORS. FIELD VERIFY ALL CONDUCTORS ARE #2 CU IF THE GROUND IS NOT #2 CU A NEW GROUND CONDUCTOR WILL NEED TO BE INSTALLED.
- FURNISH AND INSTALL NEW 3#2 CU & 1#2 CU GRD CONDUCTORS IN 1-1/4 CONDUIT FROM RELOCATED 80A PANEL "MDP" TO SIEMENS GENERATOR CABINET.
- (4) | EXISTING EMERGENCY POWER OFF (EPO) SWITCH TO REMAIN.
- FURNISH AND INSTALL NEW EMERGENCY POWER OFF (EPO) SWITCH - TIE INTO EXISTING EPO SWITCH. SEE SIEMENS DESIGN DRAWINGS ON SHEETS E3.1, E3.2 FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT/CONDUCTORS AS NECESSARY.
- EXISTING X-RAY ROOM "IN USE" LIGHT TO REMAIN.
- REWORK EXISTING X-RAY LIGHT CONTROL PANEL AND CONNECT TO EXISTING X-RAY ROOM "IN-USE" LIGHT AND NEW SIEMENS SYSTEM. SEE SIEMENS DESIGN DRAWINGS ON SHEETS E3.1, E3.2 FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT/CONDUCTORS & RELAYS AS NECESSARY.
- FURNISH AND INSTALL DOOR INTERLOCK SWITCH, IF NOT EXISTING AT PRESENT. SEE SIEMENS DESIGN DRAWINGS ON SHEETS E3.1, E3.2 FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT/ CONDUCTORS AS NECESSARY AND TIE INTO SIEMENS SYSTEM.
- FURNISH AND INSTALL 20A,120V, HOSPITAL GRADE DUPLEX WITH RED FACEPLATE. PROVIDE CONDUIT/CONDUCTORS AND CONNECT TO RECEPTACLE SHOWN.

DRAWINGS FROM SIEMENS INCLUDED ON SHEETS E3.1 AND E3.2 ARE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING AS NECESSARY.



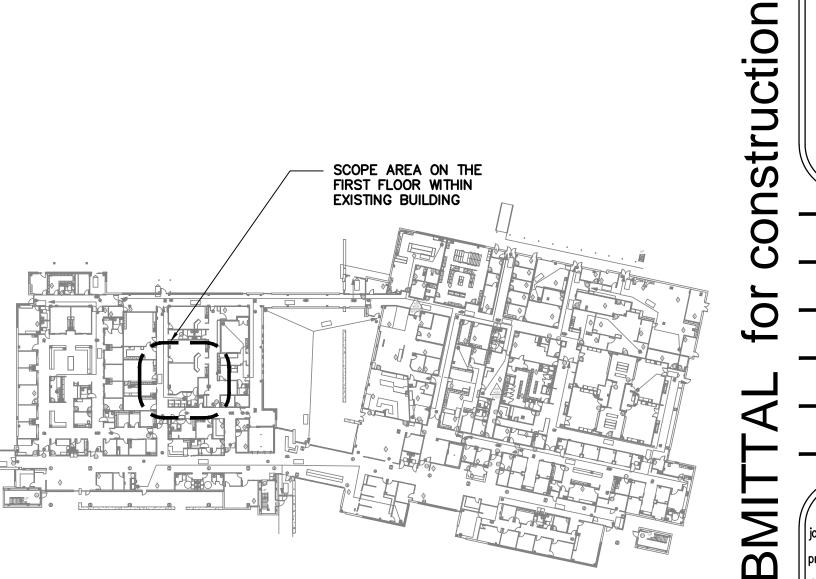


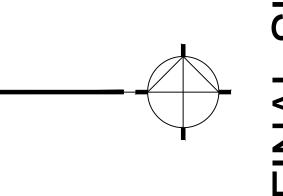


Renovation

no. 23-016/23077

08.10.23





NOTE

OVERALL FIRST FLOOR PLAN

FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND

OPERATIONAL BUILDING WHETHER INDICATED ON THE

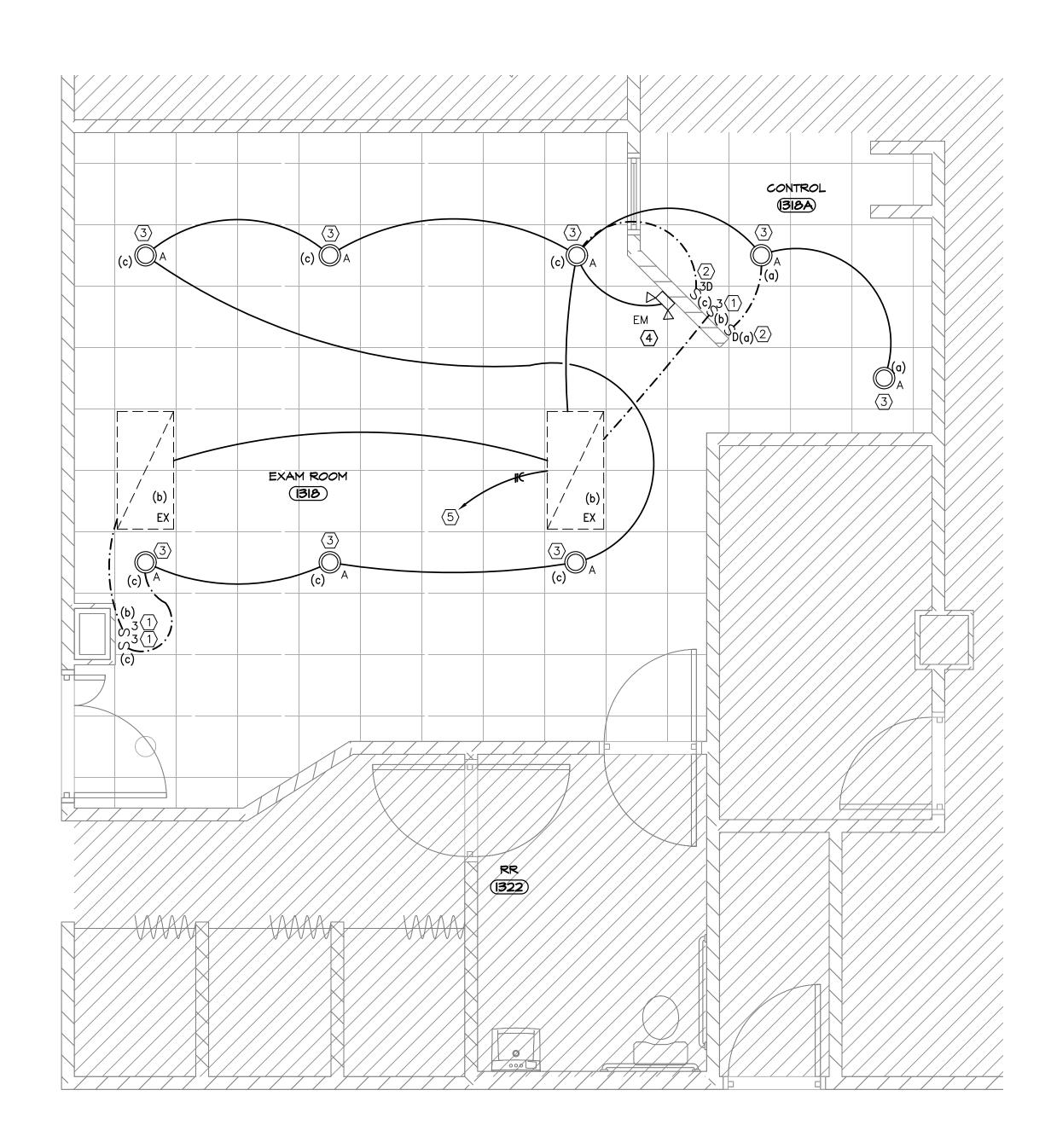
PLANS OR NOT.

THESE DRAWINGS ARE PREPARED PER ESTABLISHED DESIGN CONCEPT. THEY ARE NOT INTENDED TO 2522 S.E. COLUSA AVE. PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO PORT ST. LUCIE, FLORIDA CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS

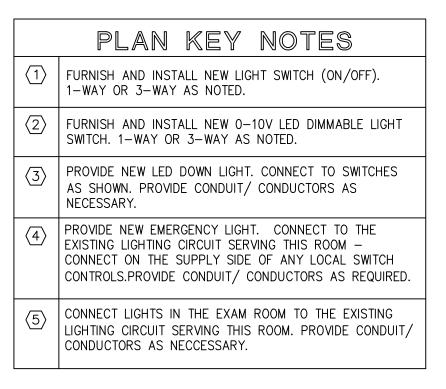
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INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS AND REPRESENT THE ENGINEERS AND REPRESENT THE ENGINEERS

TEL: 561-900-2447 FAX: 561-274-0222 E-MAIL: andrew@tecfla.com





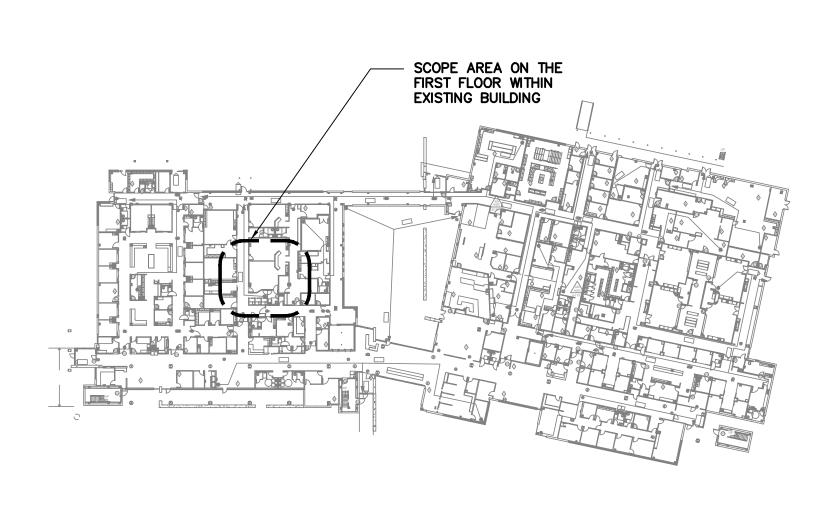


GENERAL NOTES REMOVE ANY UNUSED LIGHT SWITCHES.

LIGHTING LEGEND

(b) A - LIGHT TYPE "A" (b) - LIGHT SWICHING ZONE "(b)"

S_(c) SD - DIMMER SWICTH (c) - LIGHT SWICHING ZONE "(c)"



OVERALL FIRST FLOOR PLAN

NOTE THESE DRAWINGS ARE PREPARED PER ESTABLISHED
INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS

ANDREW J YOUNGROSS, P.E.
2522 S.E. COLUSA AVE.
2522 S.E. COLUSA AVE. PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE

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PORT ST. LUCIE, FLORIDA

TEL: 561-900-2447

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PLUMBING ELECTRICAL

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FIRST FLOOR

LIGHTING

08.10.23

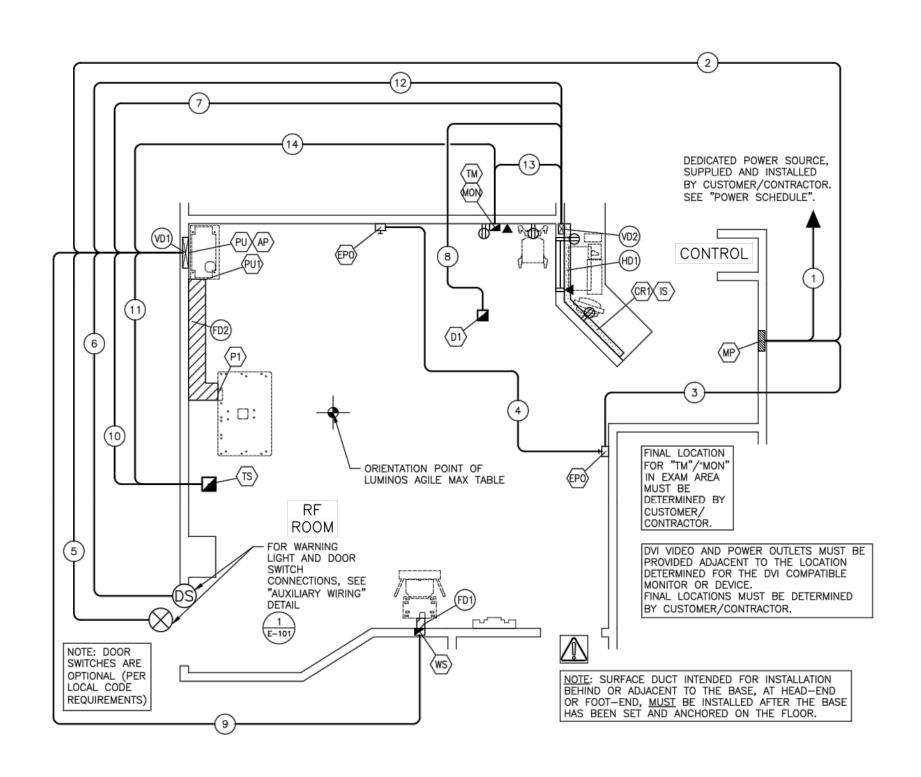
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construction no. 23-016/23077

C.D. HAIR ARCHITECT
8461 Lake Worth Road
Suite 159
Lake Worth, R.
AR96135

048609

Renovation



CONTRACTOR SUPPLIED CABLES

MP DETERMINED BY ELECTRICAL CONTRACTOR.

PU DETERMINED BY ELECTRICAL CONTRACTOR.

WL DETERMINED BY ELECTRICAL CONTRACTOR.

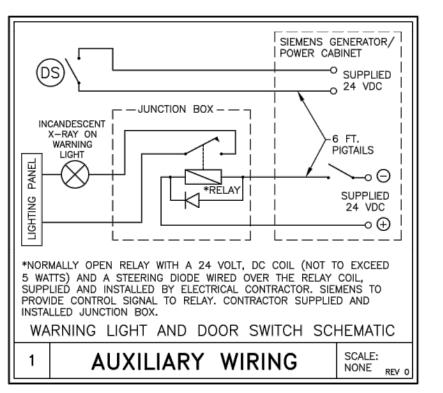
DETERMINED BY ELECTRICAL CONTRACTOR.

DETERMINED BY ELECTRICAL CONTRACTOR.

DETERMINED BY ELECTRICAL CONTRACTOR.

DESCRIPTION

SYMBOLS ALL MAY NOT APPLY MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR OPENING IN RACEWAY OR TRENCHDUCT PULLBOX IN (FLOOR/WALL/CEILING) OPENING IN ACCESS FLOORING WARNING LIGHT (X-RAY ON) DOOR SAFETY SWITCH (EPO) EMERGENCY POWER OFF BUTTON TRENCHOUCT CEILING DUCT UNDER FLOOR DUCT SURFACE DUCT \times VERTICAL DUCT THERNET CONNECTION TO CUSTOMER'S INFORMATION STEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER) O VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET \Rightarrow NLESS OTHERWISE STATED. 10 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET SPECIAL PURPOSE RECEPTACLE



	SIEMENS GENERATOR/POWER CABINET
•	ROOM LIGHTS CONTROL RELAY
ROOM LIGHTS POWER FROM WALL SWITCH 100-277 VAC ROOM LIGHTS NORMALLY CLOSED 24 VAC RELAY, SEE NOTE (1)	24 VAC
ROOM LIGHTS	6 FT. PIGTAIL
HOSPITAL POWER 100-277 VAC 24 VAC TRANSFORMER	
NOTES; 1) NORMALLY CLOSED RELAY WITH A 24 VOLT EXCEED 5 WATTS), SUPPLIED AND INSTALLED E CONTRACTOR. SIEMENS ONLY PROVIDES CONTR	Y ELECTRICAL
 ALL ITEMS SHOWN ARE SUPPLIED AND INS CUSTOMER/CONTRACTOR, WITH THE EXCEPTION GENERATOR/POWER CABINET. 	
ROOM LIGHTS SCHEN	MATIC

CABLE LENGTH LIMITATIONS

2 ROOM LIGHTING WIRING SCALE:

HE CONDUITS ARE SHOWN SCHEMATICALLY IN THIS PLAN AND MUST BE RUN IN THE SHORTEST POSSIBLE DISTANCE BETWEEN TERMINATION POINTS. ANY VARIATION IN THE ROUTING OF DUCTS COULD RESULT IN CABLE LENGTH LIMITATIONS BEING EXCEEDED. THEREFORE, ANY CHANGES MUST BE APPROVED BY THE SIEMENS PROJECT MANAGER.

		SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	FOR CONTROL EQUIPMENT	
@\B\	OPENING IN FACE OF "HD1". EXACT LOCATION MUST BE DETERMINED AT TIME OF EQUIPMENT INSTALLATION.			
®	6"x6"x6" PULL BOX MOUNTED FLUSH WITH FINISHED CEILING, WITH REMOVABLE COVER.		FOR DCS CEILING MONITOR	
®	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED 5'-0" ABOVE THE FINISHED SEE POWE FLOOR.			
₩		MAIN PANEL WITH MAIN BREAKER, EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE	
€	4 11/16" SQUARE x 3 1/4" DEEP	PULL BOX MOUNTED FLUSH WITH FINISHED WALL, CENTERLINE 18" ABOVE THE FINISHED FLOOR, WITH TIMS WALL BOX AND COVER PLATE SURFACE MOUNTED FOR DVI, TRIGGER AND NETWORK CONNECTIONS. (MAX. DISTANCE FROM CART — 25 FT.)	FOR TIMS MOBILE CART	
(P)		OPENING IN END OF "FD2" ALONG TABLE BASE	FOR TABLE	
@\@\	18"x4"	OPENING IN FACE OF "VD1" AT THE FLOOR LINE TO ACCOMMODATE CONDUIT TRANSITIONS, ADD A 12" x 12" JUNCTION BOX ATTACHED TO VERTICAL DUCT IN THE CEILING.	FOR GENERATOR W/ ACCESS POINT	
@		OPENING IN SIDE OF "FD2" ALONG LEFT SIDE OF GENERATOR BASE.	FOR GENERATOR	
(II)	8"x8"x8"	PULL BOX MOUNTED FLUSH WITH FINISHED CEILING, WITH REMOVABLE COVER.	FOR CEILING TUBE STAND	
®	6"x6"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT THE FLOOR LINE AND FITTED WITH REMOVABLE COVER.	FOR WALL STAND	
(ED)	4 3/4"x1 3/4"	FLOOR DUCT (6" LONG WIREMOLD 4000 OR EQUIVALENT) SURFACE MOUNTED ON FLOOR FROM PULL BOX "WS" TO REAR OF WALL STAND BASE, TO PROVIDE COVER FOR CABLES.	FOR WALL STAND	
®	10"x3 1/2"	FLOOR DUCT SURFACE MOUNTED ON THE FLOOR FROM "PU1" TO ALONG REAR OF TABLE BASE, AS SHOWN. THIS DUCT MUST BE DIVIDED INTO THREE SECTIONS: ONE 4" AND TWO 3" SECTIONS TO PROVIDE FOR SEPARATION OF CABLES.	FOR TABLE	
(10)	6"x3 1/2"	HORIZONTAL DUCT SURFACE MOUNTED ON WALL JUST BELOW THE CONTROL COUNTER AND CONNECTED TO "VD2".	FOR CONTROL EQUIPMENT	
(M)	18"x3 1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL FROM ABOVE FINISHED CEILING TO END AT THE FLOOR LINE. THIS DUCT MUST BE DIVIDED INTO THREE EQUAL SECTIONS, TO PROVIDE FOR SEPARATION OF POWER CABLES.	FOR GENERATOR	
(M2)	6"x3 1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL FROM ABOVE FINISHED CEILING TO END AT THE FLOOR LINE.	FOR CONTROL EQUIPMENT	
0	_	NOTES: 1. WARNING LIGHTS AND DOOR SWITCHES ARE THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR. SEE "AUXILIARY WIRING" DETAIL. 2. TO TURN ROOM LIGHTS OFF FROM THE SIEMENS EQUIPMENT, SEE "ROOM LIGHTING WIRING" DETAIL.		
1	AS REQUIRED	CONDUIT FROM POWER SOURCE TO MAIN PANEL (MP).	SIZED BY ELEC. CONTRACTOR	
2		CONDUIT FROM "MP" TO "VD1" (PU). (POWER TO "PU")	SIZED BY ELEC. CONTRACTOR	
3		CONDUIT FROM "MP" TO "EPO".	SIZED BY ELEC. CONTRACTOR	
4	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO".	SIZED BY ELEC. CONTRACTOR	
5	AS REQUIRED	CONDUIT FROM "VD1" (PU) VIA RELAY CIRCUITRY TO WARNING LIGHT.	SIZED BY ELEC. CONTRACTOR	
6	AS REQUIRED	CONDUIT FROM "VD1" (PU) TO DOOR SWITCH.	SIZED BY ELEC. CONTRACTOR	
0	2 1/2" DIA.	CONDUIT FROM "VD2" (CR1) TO "VD1" (PU).	MAX. CONDUIT LENGTH 32 FT	
8	2 1/2" DIA.	CONDUIT FROM "VD2" (IS) TO "D1".	MAX. CONDUIT LENGTH 42 FT	
9	3" DIA.	CONDUIT FROM "VD1" (PU) TO "WS". (EXTENDED CABLE SET)	MAX. CONDUIT LENGTH 39.5 FT.	
10)	(2) 2 1/2" DIA.	CONDUITS FROM "VD1" (PU) TO "TS". [USE CONDUIT BENDS PER NEC E346.10]	MAX. CONDUIT LENGTH 19 FT	
(1)	2" DIA.	CONDUITS FROM "VD1" (PU) TO "TS". [USE CONDUIT BENDS PER NEC E346.10]	MAX. CONDUIT LENGTH 19 FT	
(12)	(2) 2 1/2" DIA.	CONDUITS FROM "VD2" (IS) TO "VD1" (PU).	MAX. CONDUIT LENGTH 32 FT	
13	2" DIA.	CONDUIT FROM "VD2" (IS) TO "MON".	MAX. CONDUIT LENGTH 105 FT.	
(14)	1" DIA.	CONDUIT FROM "TM" TO "VD1" (PU).	MAX. CONDUIT LENGTH 87 FT	

ELECTRICAL LEGEND

DESCRIPTION

REMARKS

SIZE

SYM

(14) 1" DIA. CC		CONDUIT FROM	1 "IM" TO "VD1" (PU).	MAX. CONDUIT LENGTH 87 FT.	
		S	IEMENS SUPPLIED CABLES		
FROM	VIA	то	DESCRIPTION	REMARKS	
P1	FD2	PU1	W100 UNIT/GENERATOR, X-RAY TUBE (INCLUDES 30V, 300V, 600V AND FIBER OPTIC CABLES)	MAXIMUM LENGTH 22.5 FT.	
P1	FD2	PU1	W400, W140 UNIT/GENERATOR, POWER SUPPLY AND XCS (INCLUDES 30V, 300V, 600V AND FIBER OPTIC CABLES)		
CR1	HD1,VD2,7,VD1	PU	W310, CONTROL ROOM MODULE (300 V CABLE) MAXIMUM LENGTH 59 FT.		
IS	LOOSE	CR1	IMAGING SYSTEM FLAT DISPLAY AND KEYBOARD	MAXIMUM LENGTH 11 FT.	
IS	HD1,VD2,8	D1	W200 FOR 1-DISPLAY, W300 FOR 2-DISPLAYS, (INCLUDES 30V, 300V AND 600V CABLES)	MAXIMUM LENGTH 59 FT.	
PU	VD1,9	WS	W150F, W150P, W150X BUNDLES - (INCLUDES 300V, 125V AND DATA CABLES) - EXTENDED CABLE SET	MAXIMUM LENGTH 52.5 FT.	
PU	VD1,10,11	TS	W110, HIGH TENSION CABLES (INCLUDES 30V, 300V, 600V AND ETHERNET CABLES) [USE CONDUIT BENDS PER NEC E346.10]	MAXIMUM LENGTH 32 FT.	
IS	HD1,VD2,12,VD1	PU	W500 FL-C/GENERATOR, RADIATION DISPLAY (INCLUDES 30V, 300V AND FIBER OPTIC CABLES)	MAXIMUM LENGTH 59 FT.	
IS	HD1,VD2,12,VD1	PU	W600 ((INCLUDES 300V AND FIBER OPTIC CABLES) MAXIMUM LENGTH 59 FT.		
IS	HD1,VD2,13	MON	DVI VIDEO CABLE MAXIMUM LENGTH 118 FT.		

TIMS BNC COAX TRIGGER CABLE (INSTALLED BY MIV)

RECOMMENDED

CEILING

HEIGHT

9'-6"

ELECTRICAL NOTES

) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION. QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER. POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYE' SOURCE PE THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC O SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE. 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED B SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES. BUT IS NOT LIMITED TO THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND 5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL

ELECTRICAL CODE.

CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES, INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE

INDICATED, THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS—SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO

BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE JL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS.

LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIFLD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS. WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER, ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE MAINTENANCE, CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED

TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR. 7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT

AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR

NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE

LUMINOS AGILE REV 20

SIEMENS

CENTRAL HARNETT HEALTH HOSPITAL

215 BRIGHTWATER DRIVE, LILLINGTON, NC 27546 RF ROOM - LUMINOS AGILE MAX PROJECT #:

06/22/23

ATTENTION:

ELECTRICAL RACEWAY PLAN

2.VD1

VD1,5

VD1,6

CONSIDERED PREMISE WIRING.

CABLE SEPARATION

THIS ELECTRICAL RACEWAY PLAN DEPICTED IN THIS DRAWING IS PLANNED

ACCORDING TO SIEMENS SYSTEM REQUIREMENTS AND UL CERTIFICATION

OF THIS SYSTEM. ADDITIONAL SEPARATION OF THE SYSTEM CABLE SETS INTO SEPARATE OR PARTITIONED RACEWAYS UNLESS OTHERWISE NOTED IS

NOT NECESSARY TO ENSURE SEPARATION OF CIRCUITS. INTERCONNECTING CABLE SETS ARE TESTED AS PART OF THE SYSTEM, AND ARE NOT

ADDITIONAL SEPARATION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: DETERMINING THE NEED FOR ADDITIONAL SEPARATION AND DETERMINING ANY ADDITIONAL ITEMS NEEDED OTHER THAN THOSE IDENTIFIED ON THIS

CABLE PROTECTION

CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.

THE CUSTOMER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY

TO

FROM

PANEL

THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. -THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED

CONDUIT LENGTH CALCULATIONS

FOR SITE SPECIFIC INSTANCES WHERE CABLES ARE BEING

ROUTED IN A COMBINATION OF CONDUIT AND DUCTS, THE

VERTICAL DUCTS - 10'-0"

OTHERWISE SPECIFIED.

MAXIMUM LENGTH FOR THOSE CONDUITS, AS LISTED ON THE

ELECTRICAL LEGEND, HAS BEEN CALCULATED BASED UPON THE

DUCT LAYOUT SHOWN AND THE FOLLOWING ASSUMED VALUES:

FLOOR PENETRATIONS THROUGH CONCRETE SLAB - 3'-0"

THE ACTUAL SITE SPECIFIC CONDITIONS EXCEED THESE

RECALCULATE THE MAXIMUM LENGTH OF THE CONDUITS

ASSUMED VALUES AND/OR THE DUCT LOCATIONS ARE ALTERED.

I IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO

CONTRACTOR SUPPLIED ITEMS

ALL ITEMS, INCLUDING BUT NOT LIMITED TO CONDUITS, DUCTS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, AND WARNING LIGHTS, SHOWN IN THESE PLANS ARE TO BE SUPPLIED AND

INSTALLED BY THE CUSTOMER/ELECTRICAL CONTRACTOR, UNLESS

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

REMARKS

SEE POWER SCHEDULE.

SEE POWER SCHEDULE

SEE POWER SCHEDULE

SEE POWER SCHEDULE.

SEE AUXILIARY WIRING DTL.

SEE AUXILIARY WIRING DTL.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. -THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

CEILING

HEIGHT

WITHOUT

RESTRICTION SEE RM HT REQMTS

14,VD1

MINIMUM

CEILING

HEIGHT

SEE RM HT REQMTS

W/RESTRICTION

11952RA DATED 05/17 APPROVED BY CUSTOMER FOR FINAL DATE DESCRIPTION -ISSUE BLOCK-

SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. CALE: REF. #:
AS NOTED 30277332

PROJECT MANAGER: JASON BOSWELL TEL: (919) 368-5780 VMAIL: (800) 727-7156 EXT:

MAIL: JASON.BOSWELL@SIEMENS-HEALTHINEERS.COM

MAXIMUM LENGTH 100 FT.

2311952

NOTE

DESIGN CONCEPT. THEY ARE NOT INTENDED TO

SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND

OPERATIONAL BUILDING WHETHER INDICATED ON THE

PLANS OR NOT.

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS ANDREW J YOUNGROSS, P.E. 2522 S.E. COLUSA AVE. PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO PORT ST. LUCIE, FLORIDA CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH

TEL: 561-900-2447 FAX: 561-274-0222 E-MAIL: andrew@tecfla.com

SIEMENS REFERENCE Design plans PLUMBING **ELECTRICAL**

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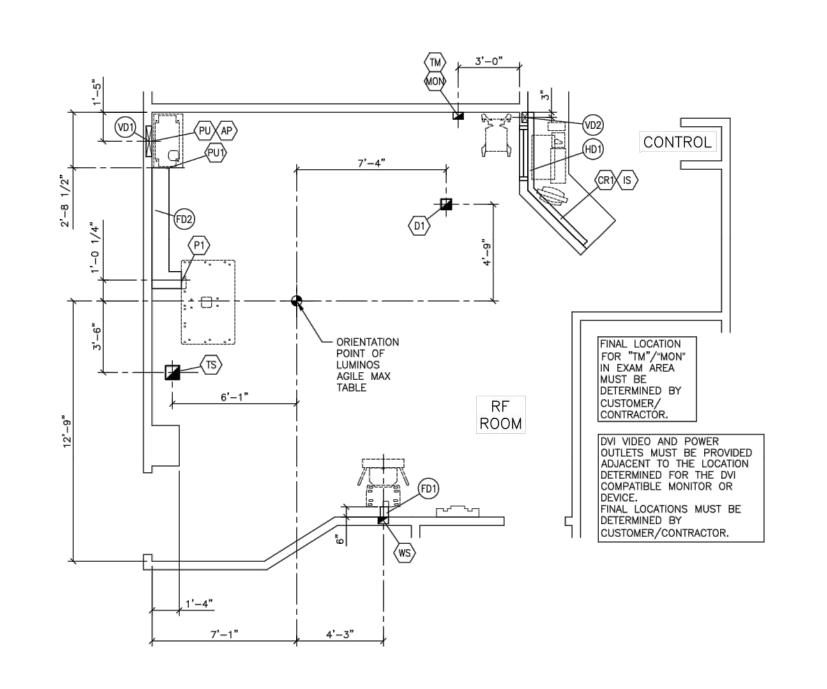
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23-016/23077 file name:

08.10.23



EXAM ROOM - CONTROL ROOM

(SEE NOTE 1)

IMAGING SYSTEM CONTAINER SUPPLIED AND INSTALLED BY SIEMENS

TIMS TRIGGER CABLE, SIEMENS-SUPPLIED, MIV INSTALLED IN

SIEMENS-SUPPLIED, INSTALLED BY VENDOR

(2) 120V DUPLEX OUTLETS REQUIRED

PULL BOX SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. (SEE NOTE 2)

TIMS COVERPLATE
SIEMENS-SUPPLIED, MIV INSTALLED -

TIMS DESKTOP INSTALLATION

TIMS TERMINATING CONNECTIONS BY VENDOR

ETHERNET

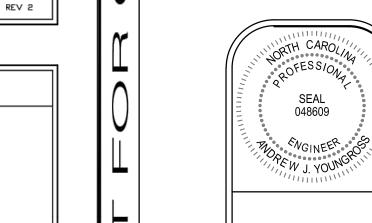
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SCALE: NONE

- EACH PULL BOX AND BEND RADIUS SUBTRACT 3'-0" FROM THE MAX. FIX POINT LENGTH FROM THE MAX. FIX POINT LENGTH FROM THE MAX. FIX POINT LENGTH EXAM ROOM - CONTROL ROOM . EXTENDED CABLE SET AVAILABLE FOR "PU1" TO "WS" (MAX. LENGTH W/ EXT. = 52'-6") . THIS CONDUIT IS ELIMINATED FOR ALL MAX SYSTEMS. . THIS CONDUIT IS ADDED FOR ALL MAX SYSTEMS WITH WI-D. . MAXIMUM FIX POINT DISTANCE "AP" TO "PU1"/"IS": CONDUIT MAX. FIX POINT CONDUIT FROM TO SIZE DISTANCE NUMBER FROM TO CONDUIT MAX. FIX POINT SIZE DISTANCE 19'-6" FOR GENERATOR MOUNTED INSTALLATIONS VIA "PU1' 82'-0" FOR WALL MOUNTED INSTALLATIONS VIA "IS". 22'-6" 7 PU1 TS 2- 2 1/2" 2 P1 PU1 2- 2 1/2" 22'-6" 8 PU1 TS 2" ACTUAL FIX POINT DISTANCE IS $52^{\circ}-0^{\circ}$, $20^{\circ}-0^{\circ}$ RESERVED FOR CART MOBILITY IN THE EXAM ROOM. 3 CR1 PU1 2 1/2" 59'-0" 9 IS PU1 2- 2 1/2" CONDUIT SIZED FOR SPLICED CABLE PROVIDED WITH 5M (16 FT.) 4 IS CR1 2 1/2" 11'-0" 10 (2) PU1 DOS 1 1/2" 36'-0" 5 IS D1 2 1/2" 59'-0" 11 IS MON 2" 118'-0' IS D2 2 1/2" 32'-0" (5) 12 (3) AP PU1 1 1/2" (4) CABLE EXTENSION, AND/OR W150E CABLES FOR STATIC DETECTOR. 6 PU1 WS 3" 36'-0" (1,6) () - REFER TO NOTES SCALE: NONE LUMINOS AGILE CONNECTION DIAGRAM

X-RAY GENERATOR POWER REQUIREMENTS 480 VOLTS, 3 PHASE, 60Hz INCOMING POWER: 80 AMPS. CIRCUIT BREAKER GENERATOR OUTPUT ALLOWABLE IMPEDANCE: ≤ 0.16 Ω MAXIMUM MOMENTARY LOAD: 126 kVA LINE VOLTAGE VARIATION: ± 10% MAX PHASE IMBALANCE: ± 2% FREQUENCY VARIATION: ± 1 Hz ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT, SUCH AS, ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. A NEUTRAL CONDUCTOR, IF PRESENT, IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. IF THE NEUTRAL CONDUCTOR IS PROVIDED, IT SHOULD NOT BE ELECTRICALLY CONNECTED AT ANY POINT IN THE POWER DISTRIBUTION TO THE SIEMENS EQUIPMENT UNLESS SPECIFICALLY REQUIRED, UNINTENTIONAL NEUTRAL TO GROUND BONDS MAY VIOLATE LOCAL AND NATIONAL ELECTRICAL CODES, AS WELL AS CREATE GROUNDING PROBLEMS. IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN XP MODALITY OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER & CONDUCTORS). ATTENTION: SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.

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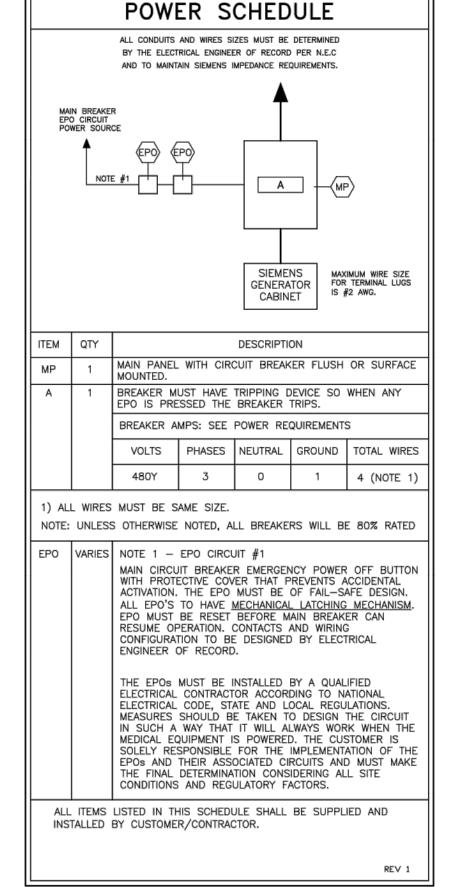
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3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS. 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH. 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS. 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION. 7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.



SIEMENS

MINIMUM CEILING RECOMMENDED CEILING HEIGHT CEILING HEIGHT WITHOUT HEIGHT RESTRICTION W/RESTRICTION 9'-6" SEE RM HT REQMTS SEE RM HT REQMTS

MAIL: JASON, BOSWELL @SIEMENS—HEALTHINEERS, COM **CENTRAL HARNETT HEALTH HOSPITAL** THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL 311952RA DATED 05, RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. O6/22/23 APPROVED BY CUSTOMER FÓR ALL RIGHTS ARE RESERVED. DATE DESCRIPTION SCALE: REF. #:
AS NOTED 30277332 -ISSUE BLOCK-

215 BRIGHTWATER DRIVE, LILLINGTON, NC 27546 RF ROOM - LUMINOS AGILE MAX PROJECT #: 2311952 T. SALVIN

ATTENTION:

ELECTRICAL DIMENSION PLAN

CONNECTION: BY VENDOR

/ LOCATE CART

OF "MON"/"TM"

TIMS MOBILE CART INSTALLATION

1. TIMS TERMINATING CONNECTIONS AT THE SIEMENS GENERATOR CABINET, BY SIEMENS.

2. WELDED, METALLIC PULL BOX, 4 11/16" SQUARE X 3 1/4" DEEP.

MIV INSTALLED IN 1" CONDUIT SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR -

GENERATOR CABINET SUPPLIED AND INSTALLED BY SIEMENS

(SEE NOTE 1)

EXAM ROOM - CONTROL ROOM

DVI INTERFACE CABLE, SIEMENS-SUPPLIED, MIV

INSTALLED IN 2" CONDUIT SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.

DVI INTERFACE CABLE -

CONTRACTOR. (SEE NOTE 2)

TIMS COVERPLATE SIEMENS-SUPPLIED, MIV INSTALLED

TIMS SPEECH PATHOLOGY SYSTEM INSTALLATION

THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

SCALE: 1/4" = 1'-0

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. -THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PROJECT MANAGER: JASON BOSWELL TEL: (919) 368-5780 VMAIL: (800) 727-7156 EXT:

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE

PLANS OR NOT.

2522 S.E. COLUSA AVE. PORT ST. LUCIE, FLORIDA

PLUMBING **ELECTRICAL**

file name: 08.10.23 | | title: SIEMENS REFERENCE DESIGN PLANS

no. 23-016/23077

principal:

GROUNDING NOTES EQUIPMENT GROUNDING CONDUCTOR TO COMPLY WITH THE FOLLOWING: 1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS. 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.

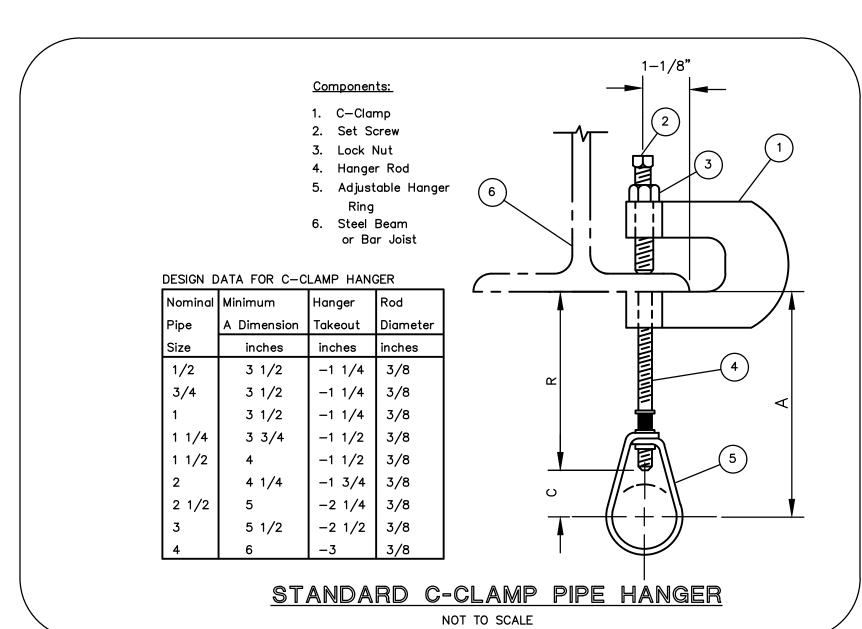
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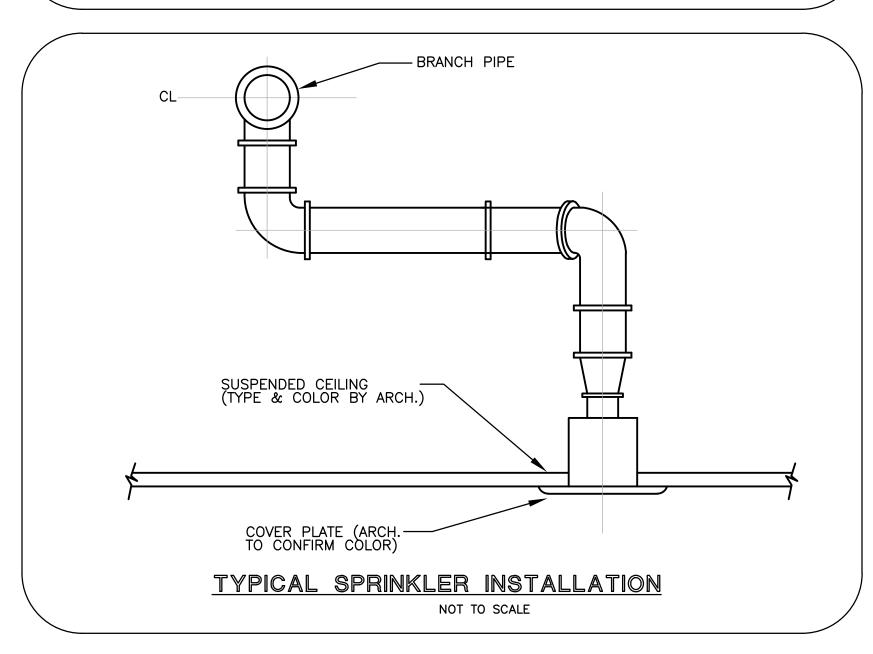
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NOTE

ANDREW J YOUNGROSS, P.E.

TEL: 561-900-2447 FAX: 561-274-0222 E-MAIL: andrew@tecfla.com





NOTE

THESE DRAWINGS ARE INTENDED TO PROVIDE THE GENERAL REQUIREMENTS AND DESIGN CRITERIA FOR THE PROJECT. FIRE SPRINKLER CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING CURRENT FIRE FLOWS FROM LOCAL AUTHORITIES AND PREPARE COMPLETE DESIGN AND INSTALLATION DRAWINGS AND CALCULATIONS AS NECESSARY FOR FULL COMPLIANCE WITH ALL LAWS AND REGULATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANYTHING DEEMED TO BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION AFTER AWARD OF BID.

FIRE PROTECTION NOTES

- SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES INCLUDING BUT NOT LIMITED TO NORTH CAROLINA STATE FIRE PREVENTION CODE 2018. NFPA 1 (2018), NFPA 101 (2018), NFPA 13 (2016), NFPA 20 (2016), NFPA 24 (2016), NFPA 25 (2017).
- CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
- RESTORATION OF EXISTING SYSTEMS, DEVICES, FINISHES, ETC. DAMAGED OR ALTERED BY NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY THE OWNER, ARCHITECT AND/OR ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
- CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER
- CONTRACTORS. 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND

PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.

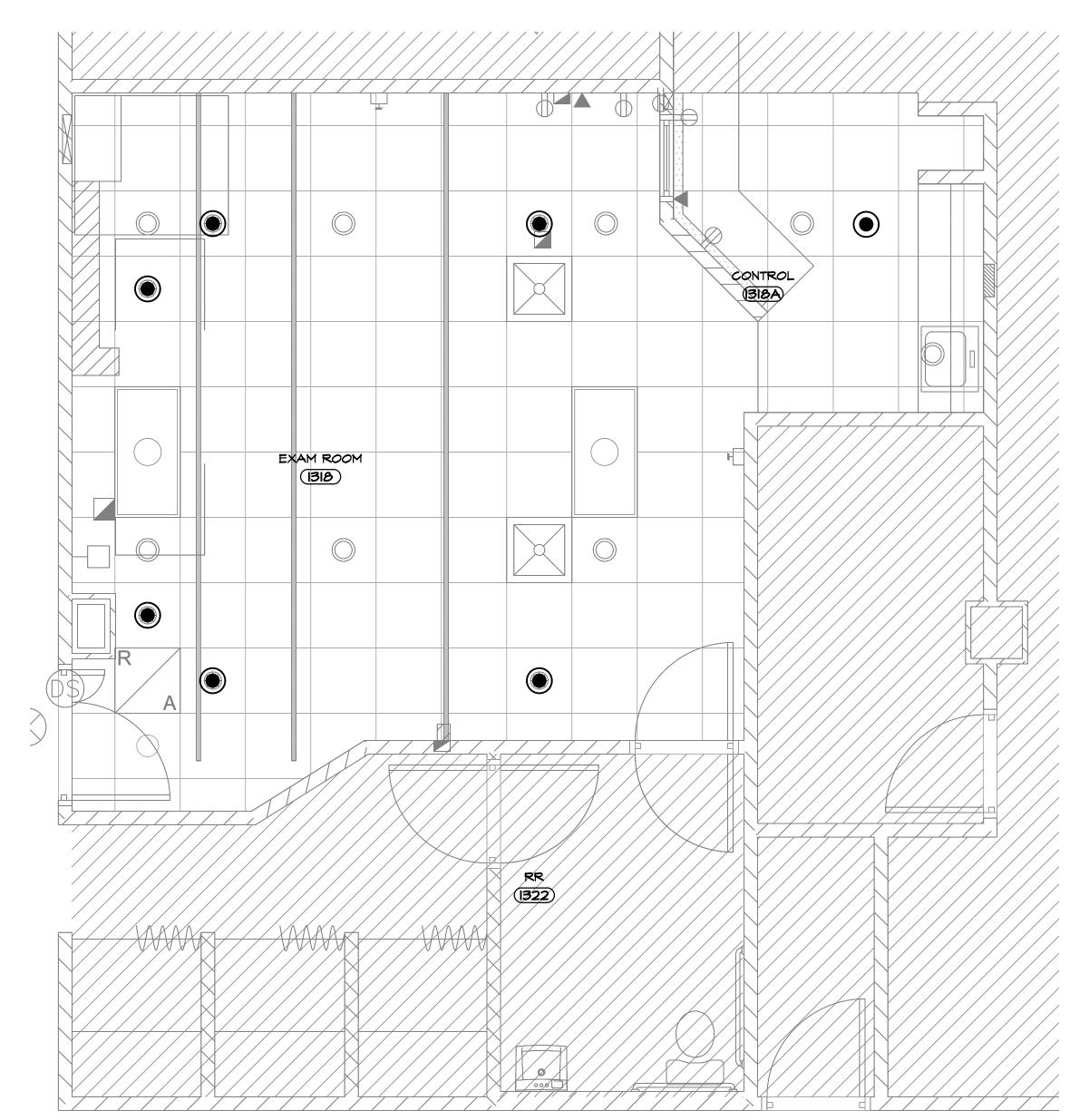
PROTECTION OF MATERIALS. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND

TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.

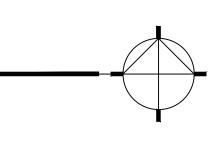
- 12. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW CORNING CORP., SILICONE ELASTOMER, DOW CORNING 3-6548 SILICONE RTV FOAM, OR APPROVED EQUAL. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEAM PENETRATIONS AS IT RELATES TO HIS WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAIL.
- 15. CONTRACTOR TO PROVIDE HYDRAULIC CALCULATIONS, SYSTEM LINE SIZING, PUMP SIZING, AND SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 16. CONTRACTOR SHALL SUBMIT (1) SET OF INSTALLATION SHOP DRAWINGS AND EQUIPMENT CUT SHEETS IN ELECTRONIC FORMAT TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK.
- 17. UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL SUPPLY THE ENGINEER WITH (1) COMPLETE SET OF MYLAR AS-BUILT DOCUMENTS AND (3)COMPLETE COPIES OF OPERATIONS AND MAINTENANCE MANUALS. MYLARS SHALL BE OBTAINED AT CONTRACTOR'S EXPENSE.
- 18. ALL EXPOSED FIRE SPRINKLER PIPING TO BE PAINTED RED.
- 19. ALL FIRE SPRINKLERS TO BE INSTALLED CENTERED IN TILE.
- 20. ACCEPTANCE AND HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 25 OF NFPA 13.
- 21. DO NOT SCALE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL CONDITIONS AT THE JOB SITE AND COORDINATE WITH ALL TRADES PRIOR TO COMMENCEMENT. THE SPRINKLER DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC.
- 22. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE SPRINKLER CONTRACTOR'S EXPENSE.

GENERAL NOTES - OFFICES

- 1. FIRE SPRINKLER SPACING TO BE: LIGHT HAZARD: OFFICE AREA DENSITY: 0.1GPM/SF @ 15'X15' MAX
- 2. ALL FIRE SPRINKLER DEVICES TO BE UL AND/OR FM APPROVED.
- 3. SPRINKLER PIPING SHALL BE STEEL PIPE (ASTM 53, 120, OR 135) WITH 150 PSI MALLEABLE IRON FITTINGS WITH THREADED CONNECTIONS OR TYPE "L" HARD DRAWN COPPER TUBING WITH COPPER OR BRASS FITTINGS AND 125 PSI SOLDER JOINTS ("NO-LEAD SOLDER"). A. SCH. 40, ALLIED XL OR AMERICAN BLT FOR 1" THRU 2"
- B. SCH. 10 FOR 2-1/2" AND LARGER
- C. SCH. 80 IF 1/2" OR 3/4" NIPPLE IS USED.
- NOTE: NIPPLE CANNOT EXCEED 4" IN LENGTH AND SUPPLY ONLY ONE HEAD PER NFPA 13.
- 4. FITTINGS
- A. BLACK CIS CLASS 125 FOR 1" THRU 2". B. GROOVED TYPE FOR 2-1/2" AND LARGER.
- 5. HANGERS TO BE IN ACCORDANCE WITH NFPA 13 AND LOCAL AUTHORITIES. SPRINKLER PIPING IS NOT TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES. MAXIMUM DISTANCE BETWEEN PIPE SUPPORTS:
 - * 12'-0" FOR 1 1/4" DIAMETER PIPE AND SMALLER * 15'-0" FOR 1 1/2" DIAMETER PIPE AND LARGER



FIRST FLOOR FIRE PROTECTION PLAN 3/8"=1'-0"



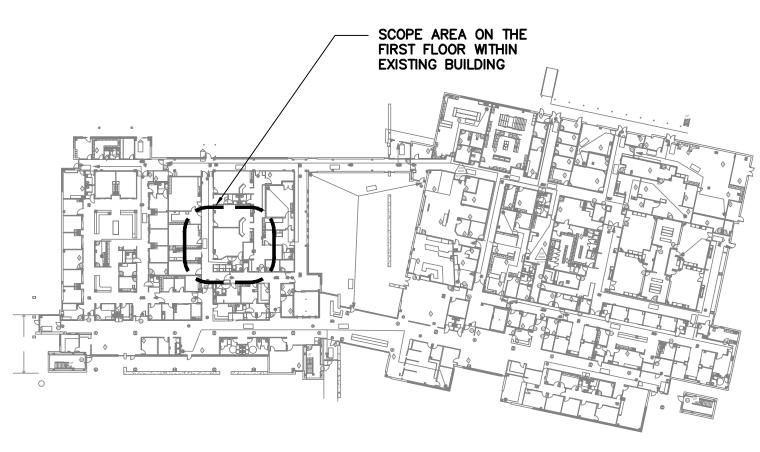


REMOVE AND REPLACE SEMI-RECESSED PENDANT SPRINKLER HEAD WITH CONCEALED PENDANT HEAD TO ACCOMMODATE NEW CEILING GRID LAYOUT.

SPRINKI ER HEAD SCHEDLIE

OF NIINNEEN TIEME OOTTEEGEE						
SPRINKLER TYPE	SYMBOL	TEMPERATURE RATING (°F.)	NOMINAL ORIFICE SIZE	MANUFACTURER & MODEL	MAXIMUM SPACING	FLOW/PRESS GPM / PSI
CONCEALED QR-PEN	•	165	1/2" K=5.6	RELIABLE G5-56 LIGHT HAZARD, COMMERCIAL AREAS	15'X15'	5.6 / 7.0

NOTE: THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM SPACING, LOCATION AND COVERAGE FOR ALL FIRE SPRINKLERS. COORDINATE WITH ALL TRADES.





E-MAIL: andrew@tecfla.com

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Z 2522 S.E. COLUSA AVE. PLUMBING PORT ST. LUCIE, FLORIDA ELECTRICAL TEL: 561-900-2447

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> no. 23-016/23077 principal: 08.10.23

GENERAL HVAC NOTES

- ALL WORK SHALL COMPLY WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, MECHANICAL, ENERGY CONSERVATION, ACCESSIBILITY CODES, AND ALL LOCAL CODE AMENDMENTS.
- . CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQUIRED SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK. SUBMISSION OF THE CONTRACTORS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. ANY CHANGES RESULTING FROM CONFLICTS IN THE FIELD, WHICH WERE NOT BROUGHT TO THE ENGINEERS ATTENTION, ARE TO BE MADE BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 3. DO NOT SCALE DRAWNGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. MECHANICAL PLANS ARE GENERAL, DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND INTERIOR DESIGNER PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PROVIDE OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS AS MAY BE NECESSARY TO FIT ACTUAL SPACE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL
- CONTRACTOR SHALL PROVIDE A COMPLETE MECHANICAL SYSTEM(S) AS DETAILED ON THE DRAWINGS AND SPECIFICATIONS. WORK CONSISTS OF PROVIDING ALL MATERIALS, EQUIPMENT, APPURTENANCES, ETC. REQUIRED FOR A COMPLETE SYSTEM(S). INCLUDE ANY INCIDENTAL APPARATUS. APPLIANCES. MATERIALS, LABOR, PERMITS, SERVICES, ETC. NECESSARY TO MAKE WORK COMPLETE AND READY FOR OPERATION. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
- . CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND REPORTING CONFLICTS TO THE ENGINEER BEFORE BIDDING. ANY CHANGES RESULTING FROM CONFLICTS IN THE FIELD, WHICH WERE NOT BROUGHT TO THE ENGINEERS ATTENTION, ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS
- B. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTING, ETC.
-). CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 10. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH ICC 2018, CH. 3, GENERAL REGULATIONS. BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZE NON-FERROUS MATERIALS FOR ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, ETC.
- 1. COORDINATE EXACT LOCATION OF ALL DIFFUSERS AND RETURNS WITH ARCHITECTURAL REFLECTED
- I. CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF THE EXISTING SUPPLY AND RETURN STATIC PRESSURES, TEMPERATURES, AND AIR FLOWS, AND BALANCE THE CFMS OF THE NEW DIFFUSERS TO
- 12. CONTRACTOR SHALL INCLUDE COSTS NECESSARY (PART OF BID) TO MAKE ONE CHANGE IN EACH UNITS SHEAVE, BUSHINGS AND BELTS, BALANCING DAMPERS REQUIRED AND ANY OTHER DEVICES REQUIRED FOR THE CORRECT BALANCE OF THE SYSTEM AS REQUIRED BY THE TAB FIRM.
- 13. GENERAL CONTRACTOR SHALL VERIFY THAT THE AIR CONDITIONED SPACE IS SEALED WITH AN APPROVED AIR BARRIER IN ACCORDANCE WITH IECC-2018, SEC 402.5.1. MECHANICAL CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR, ARCHITECT AND ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- 14. FURNISH AND INSTALL PIPE IDENTIFICATION MARKERS ON ALL PIPES AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. MARKERS SHALL BE A MINIMUM OF 1-1/2" X 8" AND IDENTIFIED IN ACCORDANCE WITH THE BACKGROUND AND LETTER COLORS ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). PIPING SHALL BE IDENTIFIED AS FOLLOWS: CHILLED WATER RETURN, CHILLED WATER SUPPLY, CONDENSATE, HOT WATER RETURN, HOT WATER SUPPLY, CONDENSER WATER RETURN, CONDENSER WATER SUPPLY, REFRIGERANT LIQUID, REFRIGERANT SUCTION, AND DIRECTIONAL ARROWS. ALL IDENTIFICATIONS MUST BE VISIBLE AT EQUIPMENT.

UPPER ATTACHMENT -

MAXIMUM D/8 OFFSET

D INCHES TO DEVICE WHERE D IS THE INTERNAL FLEX DIAMETER -

NECK SIZE TO

∠CEILING (T-BAR SHOWN.

GYP. BOARD SIMILAR)

NTS

MATCH FLEX

DUCT SIZE

INDICATED

ALLOWED IN LAST

FLEXIBLE DUCT — 2'-0" MIN. LENGTH

PER SMACNA

MAX. SAG 1/2" PER FOOT BETWEEN SUPPORT POINTS

45^ TAKEOFF OR ROUND -BELLMOUTH COLLAR MOUNT IN SIDE OF DUCT

- 22 GAUGE GALVANIZED STEEL

STRAP HANGER AS PER

SMACNA FIG. 3-10

//INSULATE TOP PANEL OF DIFFUSER OR GRILLE

ADJUSTABLE CLAMP

SADDLE

-ADJUSTABLE CLAMP

-DUCT SEALER

AIR DISTRIBUTION DEVICE

SURFACE MOUNT SIMILAR

FLEXIBLE DUCT TAKEOFF DETAIL

LAY-IN SHOWN .

GENERAL INSTALLATION NOTE

1. IT SHALL BE UNDER THE GENERAL CONTRACTOR'S RESPONSABILTY TO INVESTIGATE EXISTING CONDITIONS AND MODIFY EXISTING PIPE ROUTING OF PLUMBING, FIRE PROTECTION AND ELECTRICAL IN ORDER TO PROPERLY ALLOW SPACE FOR DUCTWORK ROUTING.

A/C OPERATION DURING CONSTRUCTION

THE USE OF NEW OR EXISTING AIR HANDLING UNITS DURING CONSTRUCTION IS PROHIBITED UNLESS APPROVED BY THE OWNER AND THE PROCEDURE SHOWN BELOW ARE FOLLOWED:

- THE CONTRACTOR SHALL PROTECT THE INTERIOR OF ALL DUCTWORK AND AIR HANDLING UNITS FROM THE ACCUMULATION OF DIRT AND DUST USUALLY ASSOCIATED WITH THE FINISHING STAGES OF THE CONSTRUCTION WORK.
- DUCTWORK STORED ON SITE AWAITING INSTALLATION SHALL BE CAREFULLY EXAMINED AND THOROUGHLY CLEANED BEFORE PLACEMENT IN ITS FINAL LOCATION. THE ENDS OF DUCTWORK SHALL BE CLOSED DURING CONSTRUCTION.
- THE AIR HANDLING UNITS MAY BE ALLOWED TO OPERATE DURING FINISHING STAGES OF THE GENERAL WORK PROVIDED THAT THE PRE-FILTERS ARE IN PLACE AND THE ENDS OF ALL RETURN AIR INLETS ARE COVERED WITH ROLL-UP FILTER MATERIAL.
- WHEN THE SPACE IS TURNED OVER TO THE OWNER, THE CONTRACTOR SHALL REMOVE ALL FILTERS USED DURING CONSTRUCTION AND REPLACE THEM WITH NEW FILTERS.
- 5. USE OF NEW AHU'S DURING CONSTRUCTION IS NOT ALLOWED.

DUCT SEALER AT 45^ TAKEOFF OR ROUND BELLMOUTH COLLAR

SUPPLY AIR DUCT

CONNECTION TO MAIN

✓ VOLUME DAMPER W/ LOCKING QUADRANT & 2" STANDOFF

1. FLEXIBLE DUCTS SHALL BE ONE PIECE AND SHALL NOT

2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER

3. FLEXIBLE AIR DUCT SHALL NOT EXCEED 15 FT. WHEN EXTENDED . ELBOW RADIUS SIZED FOR NO LESS THAN

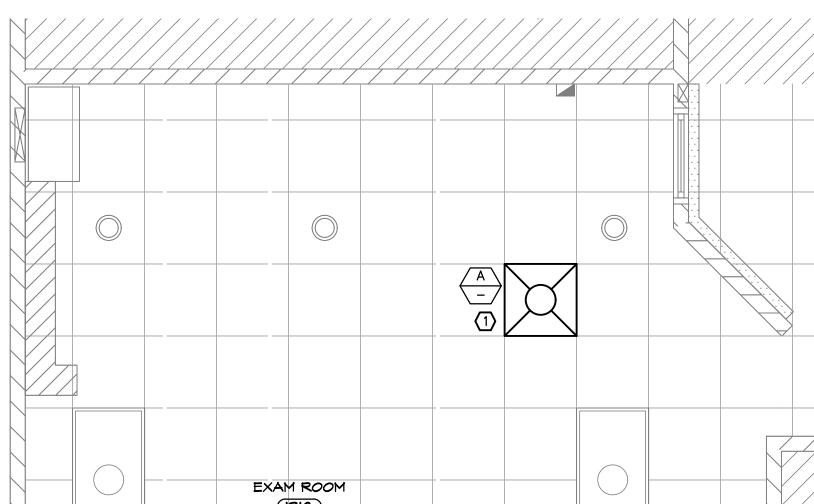
PANEL INSULATION AND SEAL WITH MASTIC.

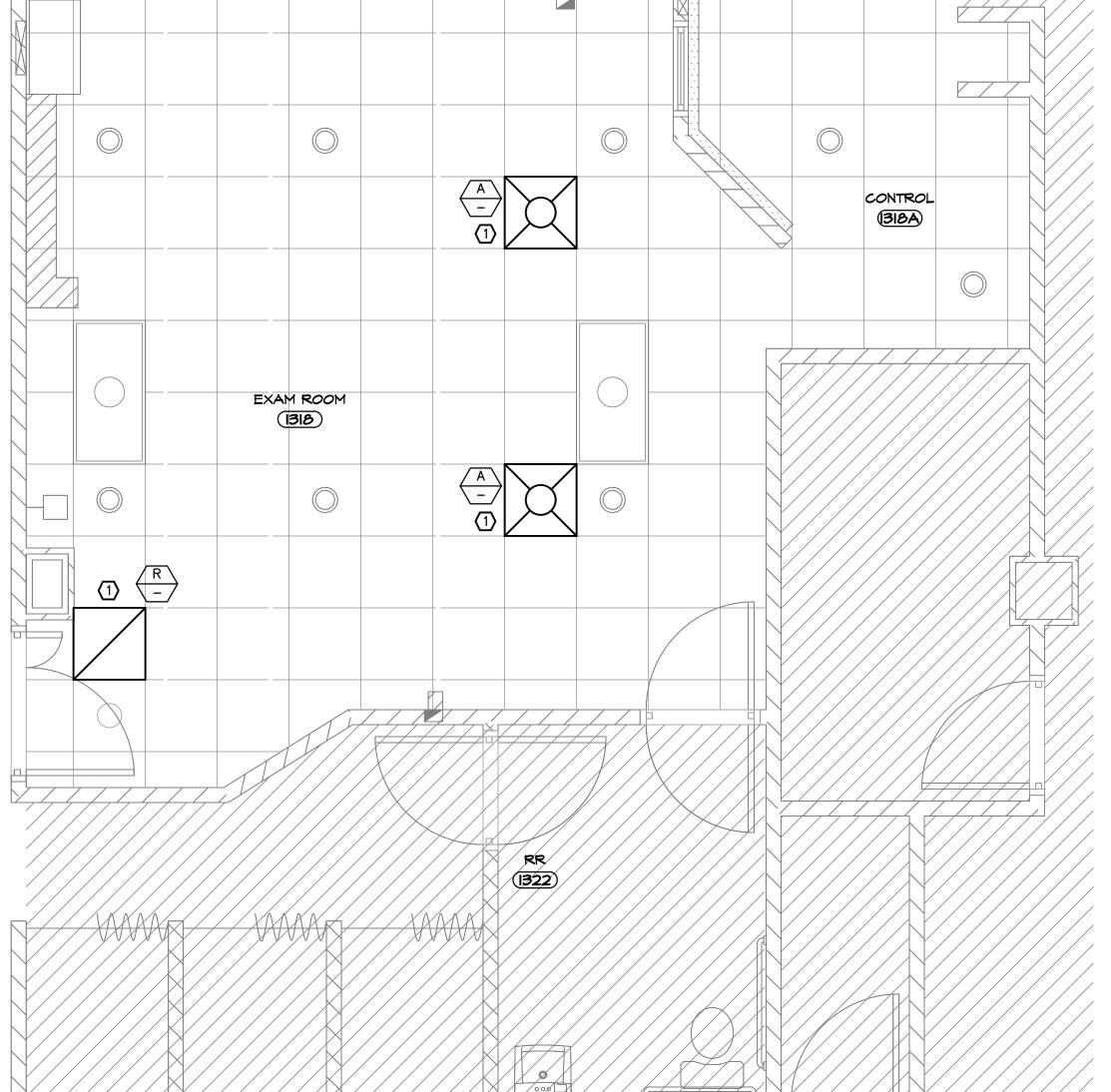
BE SPLICED TOGETHER.

R / D = 1.0.

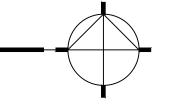
MECHANICAL LEGEND				
SYMBOL	DESCRIPTION			
C.F.M.	CUBIC FEET PER MINUTE			
(CFM)	A = DIFFUSER TYPE, CFM = DIFFUSER AIR FLOW			
Ø	CEILING DIFFUSER — SUPPLY AIR			
	CEILING DIFFUSER — RETURN AIR			

AIR DISTRIBUTION SCHEDULE MODEL PATTERN DAMPER MOUNTING NECK MODULE MAX N.C. MAX CFM NOTES TYPE MFG TITUS TMS-AA | 4-WAY O.B.D. | LAY-IN |SEE NOTE 2 | 24x24 TITUS 350 FL RETURN O.B.D. LAY-IN SEE NOTE 2 24x24 30 -1,2 COORDINATE EXACT LOCATION IN THE FIELD. MATCH NECK SIZE WITH EXISTING FLEXIBLE DUCT SIZE. VERIFY IN THE FIELD.



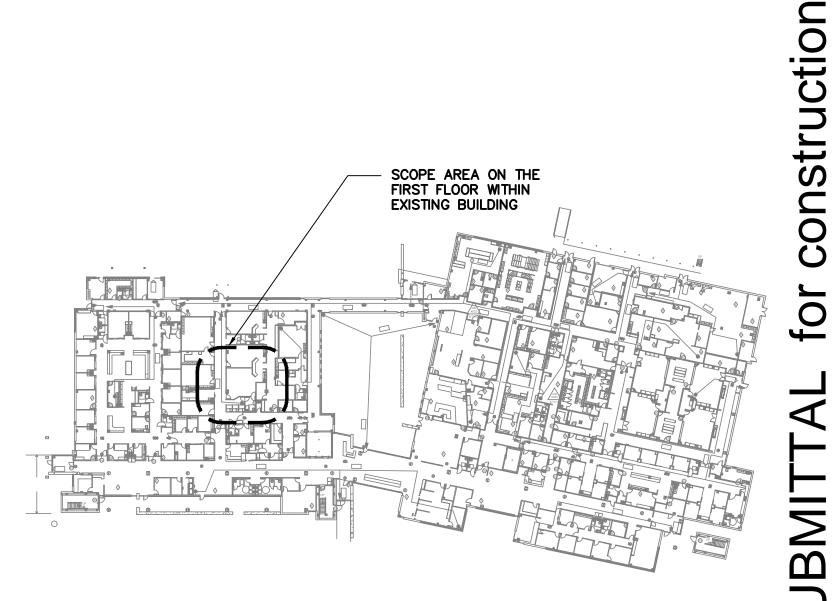


FIRST FLOOR MECHANICAL PLAN 3/8"=1'-0"



PLAN KEY NOTES

CONTRACTOR TO REMOVE EXISTING SUPPLY AND RETURN DIFFUSERS IN SCOPE OF WORK SPACE. CONTRACTOR TO INSTALL NEW SUPPLY AND RETURN DIFFUSERS IN EXISTING LOCATIONS AS PER SCHEDULE ON M1.1. CONNECT EXISTING FLEX DUCTWORK TO NEW DIFFUSERS. VERIFY EXISTING LOCATION IN THE FIELD.



OVERALL FIRST FLOOR PLAN NTS

NOTE

OPERATIONAL BUILDING WHETHER INDICATED ON THE

PLANS OR NOT.

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND TEL: 561-900-2447

ANDREW J YOUNGROSS, P.E. 2522 S.E. COLUSA AVE. PORT ST. LUCIE, FLORIDA

FAX: 561-274-0222

E-MAIL: andrew@tecfla.com

PLUMBING **ELECTRICAL**

no. 23-016/23077 08.10.23

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HAIR Worth Rog

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