Novant Family Medical Clinic - Princess Place Drive

NOVANT HEALTH

3009 Princess Place Drive

100% DESIGN DEVELOPMENT 12/20/2022

INDEX OF DRAWINGS

GENERAL
A000 COVER SHEET
A002 Building Code Summary
A010 Life Safety Plan
A030 Exterior Wall Types
A040 Interior Partition Types
A050 Standard Information
A051 Standard Information

CIVIL
CS100 SITE PLAN

ARCHITECTURAL
A101 FLOOR PLAN
A111 ENLARGED FLOOR PLAN - AREA A
A112 ENLARGED FLOOR PLAN - AREA B
A121 REFLECTED CEILING PLAN
A151 ROOF PLAN

A201 EXTERIOR ELEVATIONS
A221 ENLARGED EXTERIOR ELEVATIONS
A222 ENLARGED EXTERIOR ELEVATIONS
A223 ENLARGED EXTERIOR ELEVATIONS

A301 BUILDING SECTIONS
A302 BUILDING SECTIONS
A303 BUILDING SECTIONS
A351 WALL SECTIONS
A352 WALL SECTIONS

A401 TOILET PLANS AND ELEVATIONS
A402 INTERIOR ELEVATIONS
A403 RECEPTION ENLARGED
A404 EXAM/LARGE CLINICAL FLEX ENLARGED
A405 NURSE STATION ENLARGED
A406 MD/PA ROOM AND LAB ROOM

A701 FIRST FLOOR FINISH PLAN

STRUCTURAL
S101 GENERAL NOTES
S102 GENERAL NOTES
S103 TYPICAL DETAILS
S104 MATERIAL INSPECTIONS
S201 FOUNDATION PLAN
S202 LOW ROOF FRAMING PLAN
S203 CLERESTORY & HIGH ROOF FRAMING PLAN
S301 FOUNDATION SECTIONS & DETAILS
S401 ROOF FRAMING SECTIONS & DETAILS

MECHANICAL
M001 MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST
M002 MECHANICAL SCHEDULES
M101 MECHANICAL DUCTWORK PLAN
M102 MECHANICAL PIPING AND ZONING PLAN
M201 MECHANICAL ROOF PLAN
M400 MECHANICAL DETAILS
M401 MECHANICAL DETAILS
M500 MEHANICAL CONTROLS
M501 MECHANICAL CONTROLS

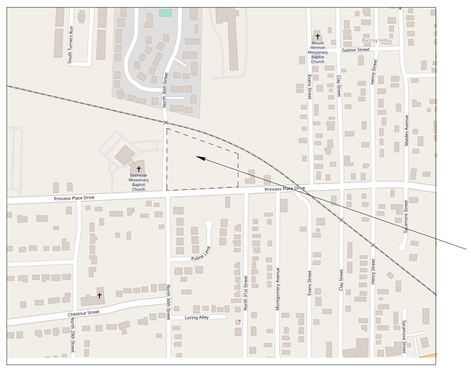
ELECTRICAL
E001 ELECTRICAL LEGEND & GENERAL NOTES
E100 ELECTRICAL SITE PLAN
E101 ELECTRICAL FIRST FLOOR - LIGHTING
E201 ELECTRICAL FIRST FLOOR - POWER & SYSTEMS
E301 ELECTRICAL FIRST FLOOR - MECHANICAL SYSTEMS
E302 ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS
E500 ELECTRICAL RISER DIAGRAM & SCHEDULES
E501 ELECTRICAL PANEL SCHEDULES
E600 ELECTRICAL DETAILS

E601 ELECTRICAL DETAILS

PLUMBING
P001 PLUMBING NOTES, SYMBOLS, SCHEDULES
P002 PLUMBING DETAILS
P101 FIRST FLOOR PLAN - HOT AND COLD WATER PIPING
P102 FIRST FLOOR - PLUMBING - WASTE AND VENT PIPING
P103 ROOF PLAN - PLUMBING
P201 PLUMBING ISOMETRIC - HOT AND COLD WATER
P202 PLUMBING ISOMETRIC - WASTE AND VENT



VICINITY MAP



Mechanical / Electrical / Plumbing Engineer
CMTA
8801 J.M. KEYNES DR. SUITE 240
CHARLOTTE, NC 28262
704.376.7072

Civil Engineer

Structural Engineer
WOODS ENG.
254 N. FRONT ST. SUITE 201
WILMINGTON, NC 28401
910.343.8007

Owner
NOVANT HEALTH
3334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-602-1811

Architect
NEIGHBORING CONCEPTS
1635 WEST TRADE ST. #1A
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21-010
Novant Family Medical Clinic - Princess Place Drive
100% DESIGN DEVELOPMENT

COVER SHEET

ISSUE DATE 12/20/2022
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SHEET BY Author
PROJECT NUMBER 21-010

A000

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

PROJECT SUMMARY / ALTERNATIVE MEANS OF COMPLIANCE

BUILDING DESCRIPTION: **The building is single story construction. The primary building structure is steel with metal stud framing. Exterior walls are masonry veneer. Openings are glazed in aluminum curtain wall and storefront systems.**

SCOPE OF WORK DETAILS: (If phased construction, please see plan submittal guidelines.) **The project's scope of work is to include site improvements and the new construction for a single story building. Site improvements will include grading, utilities, driveways, parking, and site lighting.**

☐ YES **Does this project have air rights, easements, an assumed or deeded property line, no build easements or other circumstances**
■ NO **similar to the aforementioned?** If yes, please provide a copy of the official documents.
OFFICIAL DOCUMENTS: **NA**

ALTERNATIVE MEANS OF CODE COMPLIANCE:

☐ **Renovation using Chapter 34 (3412-Existing Buildings) in the NCSBC or NFPA 101 as an alternative for Code compliance**
Renovation projects only: If you are using Chapter 34 (3412-Existing Buildings) in the NCSBC or NFPA 101 as an alternative for Code compliance please schedule a preliminary review before submitting your project for review.
Notes for Plans Examiner and Inspectors: Please reproduce the evaluation form on the plans.
DATE OF PRELIMINARY REVIEW: **NA** COMPLIANCE LETTER: **NA**

☐ **Engineering Judgement** (Approval needed from the Code Administrator is required before submitting)
DATE OF APPROVAL: **NA** COMPLIANCE DOCUMENT: **NA**

☐ **Industrial equipment with declaration documents attached** COMPLIANCE DOCUMENT: **NA**
☐ **RTAP (Revision to approved plans.)**

A: PROJECT INFORMATION

NAME OF PROJECT: **Novant Family Medical Clinic - Princess Place Drive**
ADDRESS: **3009 Princess Place Drive** ZIP CODE: **28405**
OWNER / AUTHORIZED AGENT: **Mary Anna Phillips** PHONE: **843-602-1811** E-MAIL: **mary.phillips@novanthealth.org**
OWNED BY: ☐ CITY / COUNTY ☐ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ■ CITY **Wilmington** ☐ COUNTY **New Hanover** ☐ STATE **North Carolina**

B: CONTACT INFORMATION

DESIGNER	FIRM	NAME	LICENSE #	PHONE # with EXT.	E-MAIL
Architectural	**NEIGHBORING CONCEPTS**	**Frank Little**	**9404**	**704.374.0916 x2506**	**frank@neighboringconcepts.com**
Landscape Architect					
Civil					
Electrical	**CMTA**	**Daniel A. Boland**	**38491**	**704.376.7072 x1851**	**DBoland@cmta.com**
Fire Alarm	**CMTA**	**Daniel A. Boland**	**38491**	**704.376.7072 x1851**	**DBoland@cmta.com**
Plumbing	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Mechanical	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Sprinkler-Standpipe	**CMTA**	**James L. Currie**	**31478**	**704.376.7072 x1866**	**JCurrie@cmta.com**
Structural	**WOODS ENG.**	**Don Woods**	**19475**	**910.343.8007 x 101**	**donwoods@woodseng.com**
Retaining Walls >5'	.	.	.	.	.
Other	.	.	.	.	.

C: CODE INFORMATION

2018 NC BUILDING CODE:

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

2018 NC EXISTING BUILDING CODE:

Existing: ☐ Prescriptive ☐ Repair ☐ Renovation
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) **CURRENT OCCUPANCY(S)** (Ch. 3): .
RENOVATED: (date) **PROPOSED OCCUPANCY(S)** (Ch. 3): .

RISK CATEGORY (Table 1604.5):
Current: ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

D: BASIC BUILDING DATA

Construction Type: (Table 601) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ■ II-B ☐ III-B ☐ V-B
(Check all that apply)
Sprinklers: (Chapter 9) ■ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: (Section 905) ■ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☐ Yes **Flood Hazard Area**: (Appendix G) ■ No ☐ Yes
Special Inspections Required: ☐ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

E: GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SF)	NEW (SF)	SUB-TOTAL
1st Floor	**NA**	**7383 sf**	**7383 sf**
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
TOTAL	**NA**	**7383 sf**	**7383 sf**

F: ALLOWABLE AREA

Primary Occupancy Classification(s): (Chapter 3) - Select One
Assembly (303) ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business (304) ■ B
Educational (305) ☐ E
Factory (306) ☐ F-1 Moderate ☐ F-2 Low
Hazardous (307) ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional (308) ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile (309) ☐ M
Residential (310) ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage (311) ☐ S-1 Moderate ☐ S-2 Low
☐ High-piled
☐ Parking Garage
☐ Open
☐ Enclosed
☐ Repair Garage
Utility and Miscellaneous (312) ☐ U

Accessory Occupancies: (if applicable - 508) **NA**
.

Incidental Uses: (if applicable - Table 509) **NA**
.
.
.
.
.
.
.

Special Uses: (if applicable, Chapter 4 - List Code Sections) .
.
Special Provisions: (if applicable, Chapter 5 - List Code Sections) .
.

Mixed Occupancy: If Applicable
■ No ☐ Yes Seperation: (HR.) . Exception: .

☐ **Incidental Use Separation: (508.2.5)** This seperation is not exempt as a Non-Separated Use (see exceptions).

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

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

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \frac{\ldots}{\ldots} \leq 1.00$$

$$\frac{\textbf{Actual Area of Occupancy A}}{\textbf{Allowable Area of Occupancy A}} + \frac{\textbf{Actual Area of Occupancy B}}{\textbf{Allowable Area of Occupancy B}} + \frac{\textbf{...}}{\textbf{...}} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1st Floor	**Clinic, Outpatient**	**7383 sf**	**23,000 sf**	**NA**	**23,000 sf**
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.
	.	.	.	.	.

[1] Frontage area increses from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase,I = 100 [F/P - 0.25] x W/30 = _____ (%)

[2] Unlimited area applicable under conditions of Section 507

[3] Maximum Building Area = total number of stories in the building x D (506.2)

[4] The maximum area of open parking garages must comply with Table 406.5.4.
The maximum area of air traffic control towers must comply with Table 412.3.1.

[5] Frontage increase is based on the unsprinklered area value in table 506.2

G: ALLOWABLE HEIGHT (CHAPTER 5)

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	**55'-0"**	**22'-0"**	**CH 5**
Building Height in Stories	**3 Stories**	**1 Story**	**CH 5**

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

H: FIRE PROTECTION REQUIREMENTS (CHAPTER 7)

BUILDING ELEMENT			FIRE SEPARATION DISTANCE (FEET)	RATING** REQUIRED	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			.	**0**	.	.	.	.	.
Bearing Walls	Exterior	North	.	**0**	.	.	.	.	.
		East	.	**0**	.	.	.	.	.
		West	.	**0**	.	.	.	.	.
		South	.	**0**	.	.	.	.	.
	Interior		.	**0**	.	.	.	.	.
Non-Bearing Walls & Partitions	Exterior	North	< 5 ft	**NA**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**NA**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		East	< 5 ft	**NA**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**NA**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		West	< 5 ft	**NA**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**NA**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
		South	< 5 ft	**0**	.	.	.	.	.
			≥ 5-ft to < 10-ft	**0**	.	.	.	.	.
			≥ 10-ft to < 30-ft	**0**	.	.	.	.	.
	Interior walls & partitions		.	**0**	.	.	.	.	.
Floor Construction including supporting beams and joists			.	**NA**	.	.	.	.	.
Floor Ceiling Assembly			.	**NA**	.	.	.	.	.
Columns Supporting Floors			.	**NA**	.	.	.	.	.
Roof Construction including supporting beams and joists			.	**NA**	.	.	.	.	.
Roof Ceiling Assembly			.	**NA**	.	.	.	.	.
Columns Supporting Roof			.	**NA**	.	.	.	.	.
Shaft Enclosures - Exit			.	**NA**	.	.	.	.	.
Shaft Enclosures - Other			.	**NA**	.	.	.	.	.
Corridor Separation			.	**NA**	.	.	.	.	.
Occupancy Separation			.	**NA**	.	.	.	.	.
Party / Fire Wall Separation			.	**NA**	.	.	.	.	.
Smoke Barrier Separation			.	**NA**	.	.	.	.	.
Tenant Separation			.	**NA**	.	.	.	.	.
Incidental Use Separation		Furnace Rm > 400,000 btu's	.	**NA**	.	.	.	.	.
		Boiler Rooms with > 15psi and 10 hp	.	**NA**	.	.	.	.	.
		Refrig. Machine Rm	.	**NA**	.	.	.	.	.
		Storage > 100 sf	.	**NA**	.	.	.	.	.

* Indicate section number permitting reduction.

I. 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 (%)
>30'	**UP, NS**	**No Limit**	.
.	.	.	.
.	.	.	.

J. LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ NO ■ YES
Exit Signs: ☐ NO ■ YES
Fire Alarm: ■ NO ☐ YES
Smoke Detection Systems: ☐ NO ☐ YES ■ PARTIAL .
Carbon Monoxide Detection: ■ NO ☐ YES

K. LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A010

☐ (N/A) Fire and/or smoke rated wall locations (Chapter 7)
☐ (N/A) 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)
■ Exit access travel distances (1017)
■ Common path of travel distances (1006.2.1 & 1006.3.2(1))
■ Maximum calculated occupant load capacity each exit door can accommodated based on egress width (1005.3)
☐ (N/A) 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)
☐ (N/A) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ (N/A) Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ (N/A) The square footage of each smoke compartment for Occupancy Classification I-2 (407.4)
■ Note any code exceptions or table notes that may have been utilized regarding the items above
■ Assumed and real property line locations
■ Occupant loads for each area
■ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Actual occupant load for each exit door
☐ (N/A) Location of doors equipped with hold-open devices
☐ (N/A) Location of emergency escape windows (1030)
■ The square footage of each fire area (202)

L. ACCESSIBLE DWELLING UNITS AND SLEEPING UNITS

ACCESSIBLE DWELLING UNITS (1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

M. ACCESSIBLE PARKING

ACCESSIBLE PARKING (1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH		
	REQUIRED	PROVIDED		132" ACCESS AISLE	8' ACCESS AISLE	
.	**36**	**42**	.	.	.	**3**
.	.	.	.	.	.	.
TOTAL	**36**	**42**	.	.	.	**3**

N. PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1) **Total Required / Total Provided**

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATERCLOSETS		URINALS	LAVATORIES		SHOWER S/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
BUSINESS	**3/3**	**3/3**	**0/0**	**2/3**	**2/3**	**0/0**	**1/1**	**1/1**
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.
TOTAL	**3/3**	**3/3**	**0/0**	**2/3**	**2/3**	**0/0**	**1/1**	**1/1**

O. SPECIAL APPROVALS

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

SCHEDULE OF SPECIAL INSPECTIONS ■ **No special inspections required for this project** ☐ **Special inspections required**

The following sheets comprise the required schedule of Special Inspections for this project:
The construction divisions which require special inspections for this project are as follows:

☐ **IT-1 Verification of Soils**
☐ **IT-2 Excavation and Fill**
☐ **IT-3 Piling and Drilling Piers**
☐ **IT-4 Modular Retaining Walls**
☐ **IT-5 Reinforced Concrete**
☐ **IT-6 Post Tension Slab**
☐ **IT-7 Pre-cast Concrete Erection**
☐ **IT-8 Pre-stressed Concrete**
☐ **IT-9 Inspection of Pre-Cast Fabricators**
☐ **IT-10 Inspection of Structural Steel Fabricators**
☐ **IT-11 Structural Masonry**
☐ **IT-12 Welding**
☐ **IT-13 High Strength Bolts & Steel Framing Insp.**
☐ **IT-14 Sprayed Fire-Resistance Materials**
☐ **IT-15 Exterior Insulation and Finish system**
☐ **IT-16 Seismic Resistance**
☐ **IT-17 Smoke Control**
☐ **IT-18 Detention Basin**
☐ **IT-19 Special Cases**

CHAPTER 17 Specific Special Inspetions: .

P. ENERGY SUMMARY

BUILDING ENVELOPE:
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 energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE ☐ **NO** ☐ **YES**

CLIMATE ZONE: (North Carolina Energy Conservation Code NCECC 301.1) ■ **3A** ☐ **4A** ☐ **5A**

METHOD OF COMPLIANCE: ☐ **Prescriptive** (ASHRAE 90.1) ■ **Prescriptive** ☐ **No change to Building Envelope**
☐ **Performance** (ASHRAE 90.1) ☐ **Performance**

THERMAL ENVELOPE: (NCECC Chapter 4 and or 5)

ROOF/CEILING ASSEMBLY (each assembly) — Code Allowable Max. or Min.
Description of assembly: **TPO single ply membrane roofing, 1/4 coverboard, 5" min rigid roof insulation over metal deck**
U-Value of total assembly: **U-0.039 max**
R-Value of insulation: **R-38 min**
Skylights in each assembly: **N/A**
U-Value of skylight: **N/A**
total square footage of skylights in each assembly: **N/A**

EXTERIOR WALLS (each assembly)
Description of assembly: **5/8" gypsum board, 6" cold formed metal framing w/batt insulation, 1/2" gypsum board sheathing and continuous spray foamed insulation**
U-Value of total assembly: **0.064**
R-Value of insulation: **R-13 + R-7.5ci min**
Openings (windows or doors with glazing): .
U-Value of assembly: **Storefront: U-45 max** **Entrance door: U-77 max**
shading coefficient: **SHGC: 0.25**
projection factor (PF): **<0.25**
Door R-Value: **Opaque doors: U-0.70 max**

WALLS BELOW GRADE (each assembly)
Description of assembly: **N/A**
U-Value of total assembly: **N/A**
R-Value of insulation: **N/A**

FLOORS OVER UNCONDITIONED SPACE (each assembly) .
Description of assembly: **N/A**
U-Value of total assembly: **N/A**
R-Value of insulation: **N/A**

FLOORS SLAB ON GRADE
Description of assembly: **Reinf. concrete on slab, on vapor barrier, on 4" compacted stone**
U-Value of total assembly: **F-0.730**
R-Value of insulation: **R-7.5ci @slab perimeter**
Horizontal/vertical requirement: **N/A**
slab heated: **N/A**

Q. STRUCTURAL DESIGN

LOCATED ON STRUCTURAL SHEET: ☐ **NO** ■ **YES** REFER TO SHEET NUMBER: **S101**

R. MECHANICAL SUMMARY (NCECC 503)

LOCATED ON MECHANICAL SHEET: ☐ **NO** ■ **YES** REFER TO SHEET NUMBER: **M001**

S. ELECTRICAL SUMMARY (NCECC 505)

LOCATED ON ELECTRICAL SHEET: ☐ **NO** ■ **YES** REFER TO SHEET NUMBER: **E001**

.

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NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

No.	Description	Date

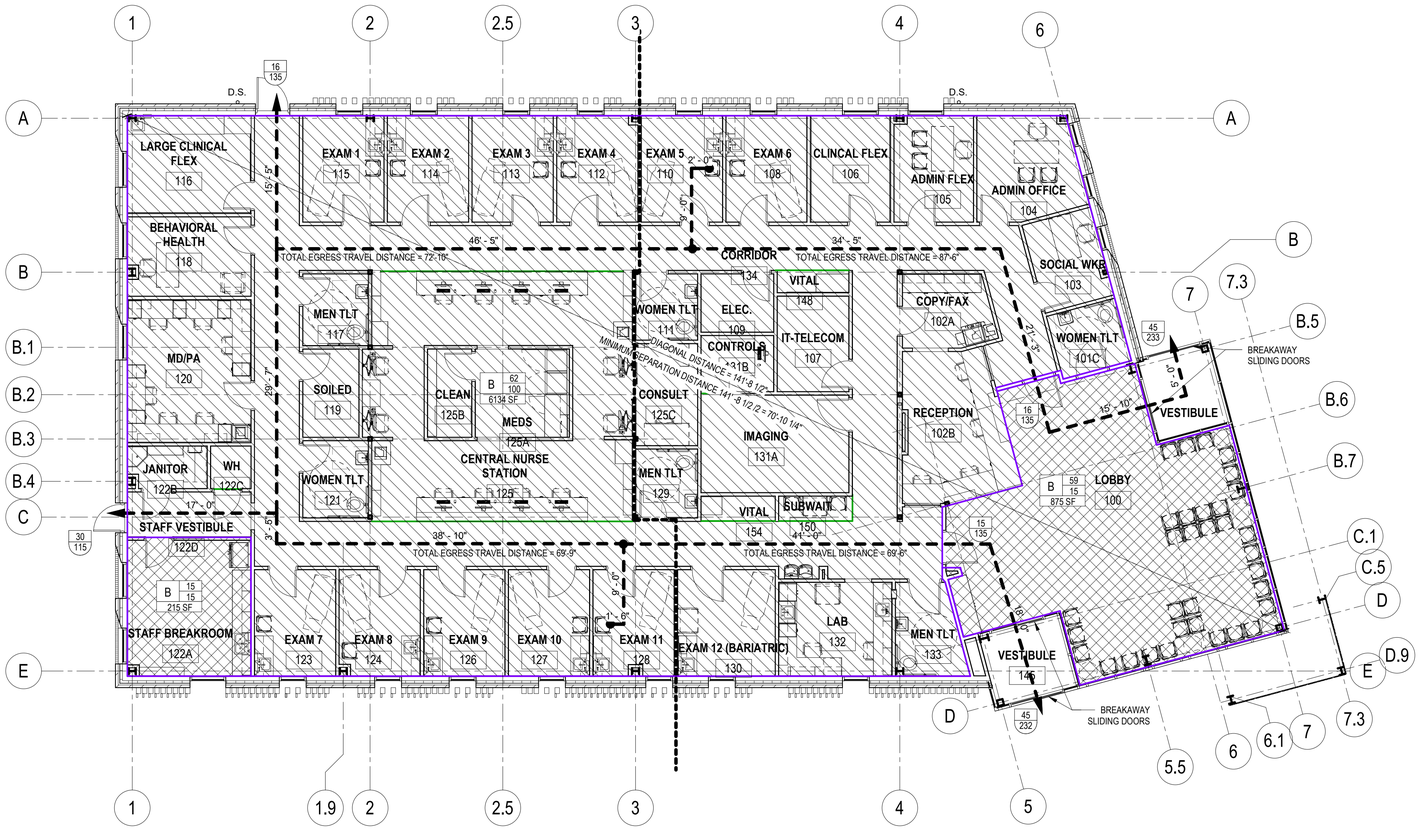
100% DESIGN DEVELOPMENT

Building Code Summary

ISSUE DATE 12/20/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A002

BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place.rvt
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1 A010 **FIRST FLOOR LIFE SAFETY PLAN**

SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

- PATH OF EGRESS
- OCCUPANCY / NUMBER OF OCCUPANTS (X-# / XX / XXX)
- DENSITY PER PERSON / AREA (XXXX SF)
- ACTUAL OCCUPANT LOAD (X / XXX)
- ALLOWABLE OCCUPANT LOAD
- GROSS BUSINESS AREA
- ASSEMBLY AREA
- 1 HR RATED ASSEMBLY
- 2 HR RATED ASSEMBLY
- 3 HR RATED ASSEMBLY
- T-SHAPE TURNING SPACE WITHIN A 60" MIN. SQUARE
- TURNING RADIUS BETWEEN AISLES 48" MIN.
- TURNING RADIUS 60"MIN.
- FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- FVC — FIRE VALVE CABINET

GENERAL LIFE SAFETY NOTES

1. PROVIDE FIRE EXTINGUISHER CABINETS AS INDICATED ON PLANS. VERIFY FINAL LOCATIONS AS ACCEPTABLE WITH FIRE MARSHAL.
2. PROVIDE RATINGS AS INDICATED ON PLANS. GC SHALL FIELD VERIFY CONDITION OF EXISTING RATED WALLS PRIOR TO BID SUBMISSION. PATCH ALL HOLES WITHIN EXISTING RATED WALL ASSEMBLIES WITH EQUIVALENT RATED ASSEMBLY WHERE DEMOLITION WILL REMOVE UTILITIES OR CRACKS AND OPEN PENETRATIONS CURRENTLY EXIST.
3. ALL RATED PARTITIONS TO BE EXTENED TO UNDERSIDE OF STRUCTURE.
4. ALL SHAFTS SHALL BE 2-HOUR RATED.
5. PROVIDE 2" HIGH STENCILED LETTERING AT ALL RATED CORRIDOR PARTITIONS, SMOKESTOP PARTITIONS, HORIZONTAL EXIT PARTITIONS, EXIT ENCLOSURES, FIRE WALLS AND FIRE BARRIERS IN A LOCATION ABOVE CEILINGS AND CONCEALED FROM PUBLIC VIEW. SUGGESTED WORDING: "X-HR (AS APPROPRIATED FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LOCATE AS PER CODE AUTHORITY AND AT 15'-0" O.C. MAX (NCSBC 704.2.1.5)
6. NEW FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT. REFER TO ELECTRICAL DRAWINGS FOR DETAILED INFORMATION.
7. EXIT SIGNAGE SYMBOL SHOWN ON THIS SHEET IS FOR GENERAL LOCATION AND COORDINATION PRUPOSES. CENTER SIGNAGE OVER DOORS UNLESS OTHERWISE NOTED.
8. PROVIDE RATED ACCESS HATCES IN SHAFT WALLS AT MECHANICAL DAMPERS BETWEEN FLOORS. COORDINATE WITH ARCHITECT AND ENGINEER FOR FINAL LOCATIONS IN FIELD.
9. SIGNAGE SHALL BE PROVIDED A T ALL AREAS AS FOLLOWS:

   A) AT ALL AREAS OF RESCUE ASSISTANCE
   B) AT MAIN CORRIDORS DIRECTING PUBLIC TO AREAS OF RESCUE ASSISTANCE. FINAL LOCATION TO BE DETERMINED BY ARCHITECT
   C) AT ALL RESTROOM FACILITIES, MECHANICAL, AND ELECTRICAL ROOMS

LIFE SAFETY KEYNOTES

A	Add your Note Here
B	Add your Note Here

Path of Travel Schedule	
Level	Path of Travel Distance

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Novant Family Medical Clinic - Princess Place Drive

No.	Description	Date

100% DESIGN DEVELOPMENT

Life Safety Plan

ISSUE DATE 12/20/2022
CHECKED Checker
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PROJECT NUMBER 21-010

A010

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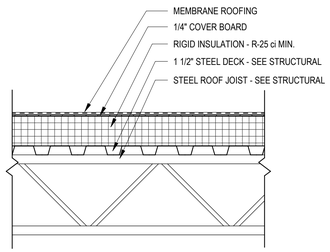
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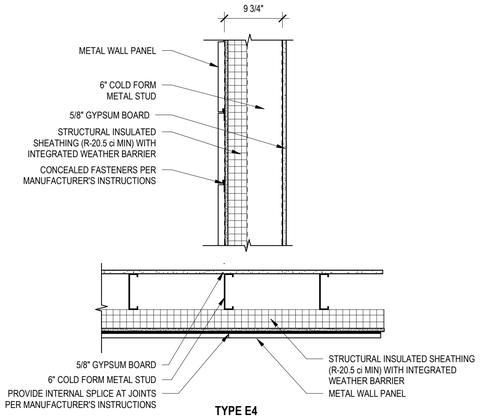
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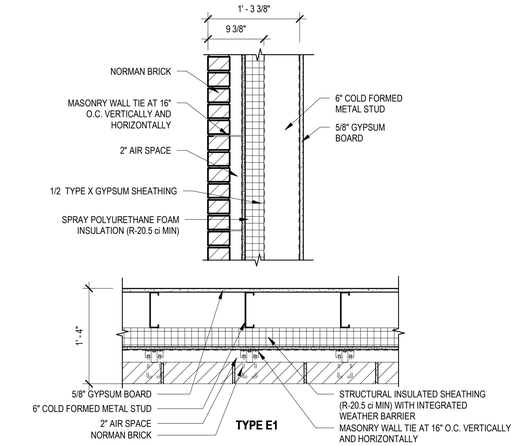
TYPE R1

ROOF TYPE	GENERAL NOTES
R2 SCALE 1" = 1'-0"	1. SEE ROOF PLAN FOR ROOF SLOPES



TYPE E4

EXTERIOR WALL TYPE - METAL PANEL	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E2 SCALE 1" = 1'-0"	E2D-0	6"	N/A	N/A		



TYPE E1

EXTERIOR WALL TYPE - CMU VENEER	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	SOUND INSUL	COMMENTS
E1 SCALE 1" = 1'-0"	E1D-0	6"	N/A	N/A		

Novant Family Medical Clinic - Princess Place Drive

No.	Description	Date

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Exterior Wall Types

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A030

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GYPSUM THRU CEILING PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
	G4B0	3 5/8"	0 hr	48	3"	Gypsum - 4" above ceiling partition type, plywood to be installed on Physical Therapy room side of wall

G4

SCALE 1" = 1'-0"

FIRE RATED GYPSUM PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
	G3B-0L	3 5/8"	0 hr	N/A	3"	Gypsum - 4" above ceiling partition type

G3

SCALE 1" = 1'-0"

GYPSUM TO STRUCTURE PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
	G2B-0	3 5/8"	0 hr	48	3"	
	G2L-0	3 5/8"	0 hr	48	3"	DRYWALL ON ONE SIDE.

G2

SCALE 1" = 1'-0"

GYPSUM THRU CEILING PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
	G1B-0	3 5/8"	0 hr	48	3"	Gypsum - 4" above ceiling partition type
	G1D-0	6"	0 hr	48	3"	Gypsum - 4" above ceiling partition type

G1

SCALE 1" = 1'-0"

Novant Family Medical Clinic - Princess Place Drive

No.	Description	Date

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Interior Partition Types

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STANDARD ABBREVIATIONS

@	AT
A/C	AIR CONDITIONER / CONDITIONING
ACC	ACCESSIBLE
ACCSY	ACCESSORY
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANELS
ACP	LAY-IN ACOUSTIC PANEL CEILING PADS
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALNMT	ALIGNMENT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
APPVD	APPROVED
APT	APARTMENT
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	WALL-MOUNTED SOUND ABSORPTION PANEL
AWT	ACOUSTIC WALL TREATMENT
BD	BOARD
BITUM	BITUMINOUS
BL	BASELINE
BL	BLACK
BLDG	BUILDING
BM	BEAM
BO	BLOWOFF
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS
C	CELSIUS
C	CHANNEL
C TO C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CEM PLAS	CEMENT PLASTER (STUCCO)
CER	CERAMIC
CG	CORNER GUARD
CH	CHILLER
CH	COAT HOOK
CHBD	CHALKBOARD
CHFR	CHAMFER
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CL D	CLOTHES DRYER
CLG	CEILING
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CARBON MONOXIDE
CO	CASED OPENING
CO	CERTIFICATE OF OCCUPANCY
CO	CLEANOUT
CO	COMPANY
CO	CUTOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONC FLR	SEALED CONCRETE FLOOR
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONT	CONTROLLER
CONV	CONVERT
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CR	CLOSET ROD
CR	CONTROL RELAY
CR	CONTROL ROOM
CR	CRASH RAIL
CS	CAST STONE
CS	CONTROL SWITCH
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
CU	COPPER
CU FT	CUBIC FOOT
CU YD	CUBIC YARD
CUB	CUBICLE CURTAIN
CURT	CURTAIN
CW	CASEMENT WINDOW
CW	CHEMICAL WASTE LINE
CW	CLOCKWISE
CW	COLD WATER PIPING
D	DEEP
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMPF	DAMPPROOFING
DR	DOOR / DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EF	EACH FACE
EG	VERTICAL END GUARDS
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	ELECTROMAGNETIC
EM	EXPANDED METAL
EMER	EMERGENCY
ENCL	ENCLOSED / ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EPB	ELECTRIC PANEL BOARD
EQ	EQUAL(LY)
EQUIP	EQUIPMENT
ER	POURED EPOXY
ERF	POURED EPOXY FLOORING
ESCAL	ESCALATOR
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXF	EXTERIOR FINISH
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FAB	FABRIC
FAI	FRESH AIR INTAKE
FBRK	FIREBRICK
FCP	PREFABRICATED FABRIC CEILING PANEL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FIN FLR	FINISHED FLOOR
FIN FLR	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASH(ING)
FLR	FLOOR
FLRSK	FLOOR SINK
FLUOR	FLUORESCENT
FM	FACTORY MUTUAL
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF
FPL	FIREPLACE
FR	FRAME
FRG	FIBER REINFORCED GYPSUM
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FSP	FIRE STAND PIPE
FSTNR	FASTENER
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
FWC	FABRIC WALL COVER
FWP	NON-ACOUSTIC STRETCHED FABRIC PANEL WALL INSTALATION
G	GROUND
GA	GAGE
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDISP	GARBAGE DISPOSAL
GEN	GENERAL
GFP	GFRP OR GFRG FREESTANDING PANEL
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLASS FIBER REINFORCED POLYMER
GL	GLASS / GLAZING
GL BLK	GLASS BLOCK
GLT	GLASS MOSIAC TILE
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GPM	GALLONS PER MINUTE
GR	GROSS
GR LN	GRADE LINE
GRAN	GRANITE
GT	GREASE TRAP
GT	GROSS TON
GT	GROUT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	HIGH
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAVY DUTY
HD	HAND DRYER
HDBD	HARDBOARD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HDWL	HEADWALL
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HEAT PUMP
HP	HIGH PRESSURE
HP	HORSEPOWER
HR	HAND RAIL
HS	HAND SINK
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HOT WATER
HWP	HOT WATER PUMP
HYD	HYDRANT
IC	IRONING CABINET
ID	INSIDE DIAMETER
IN	INCH / INCHES
INCL	INCLUDE(D) / INCLUDING
INSUL	INSULATE / INSULATION
INT	INTERIOR
INV	INVERT
ITS	INTERTEK TESTING SERVICES
J-BOX	JUNCTION BOX
JAN CLO	JANITOR'S CLOSET
JS	JANITOR'S SINK
KIT	KITCHEN
L	ANGLE
L	LITER
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB(S)	POUND(S)
LC	LINEN CLOSET
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LIB	LIBRARY
LINO	LINOLEUM
LKR	LOCKER
LNO	LINOLEUM
LPT	LOW POINT
LT	LIGHT
LTF	LINOLEUM TILE FLOORING
LTWT	LIGHT WEIGHT
LVR	LOUVER
m	METER
MACH	MACHINE
MAT	WALK-OFF MAT
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MAIL BOX
MB	MIXING BOX
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MCP	ACOUSTIC LAY-IN METAL CEILING PADS
ME	MECHANICAL ENGINEER
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MKR BD	MARKER BOARD
MLDG	MOULDING
mm	MILLIMETER
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MTL	METAL
MTS	METAL TRANSITION STRIP
MULL	MULLION
MVBL	MOVABLE
MW	MICROWAVE
N	NORTH
NA	NOT AVAILABLE / APPLICABLE
NAT	NATURAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OF / CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PAR	PARALLEL
PAR	PARAPET
PART	PARTIAL
PAT	PATTERN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PRE-FINISHED
PRF	POLYURETHANE SPORTS FLOORING
PROP	PROPERTY
PRST	PRESSURE TREATED
PS	POURED SEALANT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT(ED)
PT/E	EPOXY PAINT
PT/F	FLAT PAINT
PT/HG	HIGH GLOSS PAINT
PT/SG	SEMIGLOSS PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PV	PAVED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
Q	HEAT TRANSFER
Q	RATE OF FLOW
QT	QUARRY TILE
QTY	QUANTITY
QZF	QUARTZ FLOORING
QZR	QUARTZ RESIN
QZT	QUARTZ TILE
R	RISER
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REF	REFRIGERATOR
REFL	REFLECTED
REG	REGISTER
REINF	REINFORCE(D)
REQ	REQUIRED
RESIL	RESILIENT
REST	RESTROOM
RET	RETURN
REV	REVISE / REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RAILROAD
RR	ROLL ROOFING
RS	RAPID START
RS	ROUGH SAWN
RS	RUBBER SHEET
RSF	RUBBER SHEET FLOORING
RST	REINFORCING STEEL
RT	RIGHT
RTF	RUBBER TILE FLOORING
RTS	RUBBER TRANSITION STRIP
RWD	REDWOOD
RWL	RAIN WATER LEADER
S	SOUTH
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET
SGL	SINGLE
SH	SINGLE HUNG
SHR	SHOWER
SHR HD	SHOWER HEAD
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SL	SEA LEVEL
SL	SPOT LIGHT
SLDG	SLIDING
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPC	SUSPENDED PLASTER CEILING
SPEC	SPECIFY / SPECIFICATION
SPH	SOLID PHENOLIC POLYMER (TRESPA)
SPKR	SPEAKER
SPR	SOLID POLYMER RESIN (3FORM)
SQ	SQUARE
SQIN	SQUARE INCH(ES)
SSP	SOLID SURFACE POLYMER (CORIAN)
SSPR	SOLID POLYMER (CORIAN) RUB RAIL
SST	STAINLESS STEEL
SSTR	STAINLESS STEEL RUB RAIL
ST	SINGLE THROW
ST	STAIRS
ST	STREET
ST	STAIN
STA	STATION
STD	STANDARD
STIF	STIFFENER
STON	STONE
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUH	SUSPENDED UNIT HEATER
SURF	SURFACE
SUSP	SUSPENDED
SVP	VINYL SOLID PANEL (ACROVYN)
SW	SWITCH
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/S	TUB / SHOWER
TB	TOWEL BAR
TC	TERRA COTTA
TCZ	CEMENTITIOUS TERRAZZO
TEL	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TK BD	TACK BOARD
TKP	TACKABLE PANELING
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TR	ACCENT RAIL
TRTD	TREATED
TRZ	INTERIOR POURED EPOXY RESIN TERRAZO
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UGND	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLT
VAC	VACUUM
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VP	VACUUM PUMP
VP	VANISHING POINT
VP	VAPOR PRESSURE
VP	VENEER PLASTER
VPC	VENEER PLASTIC CEILING/SOFFIT
VR	VAPOR RETARDER
VRR	VINYL (ACROVYN) RAIL
VS	VENT STACK
VS	VOLUMETRIC SWITCH
VS	SHEET VINYL
VT	SOLID VINYL TILE
VTR	VENT THRU ROOF
VTS	VINYL TRANSITION STRIP
VWC	VINYL WALLCOVERING
W	WIDE
W	WEST
W / W	WALL TO WALL
W/	WITH
W/D	WASHER / DRYER
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WC	WALLCOVERING
WD	WOOD
WDH	WOOD HAND RAIL
WDM	WOOD WALL MOULDINGS
WDP	WOOD PANELING
WDR	WOOD CHAIR, CRASH, OR HAND RAIL
WDS	ATHLETIC/ACOUSTIC ISOLATED WOOD FLOORING
WDSHV	WOOD SHELVING
WDT	WOOD TILE OR PARQUET FLOORING
WDV	WOOD VENEER
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WP	WATERPROOF
WP	WORKING POINT
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT
WR	WIRE ROPE
WRP	WATER REPELLENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE
YD	YARD

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Novant Family Medical Clinic - Princess Place Drive

No.	Description	Date

100% DESIGN DEVELOPMENT

Standard Information

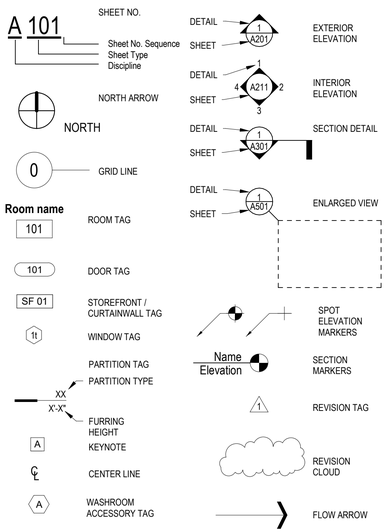
ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

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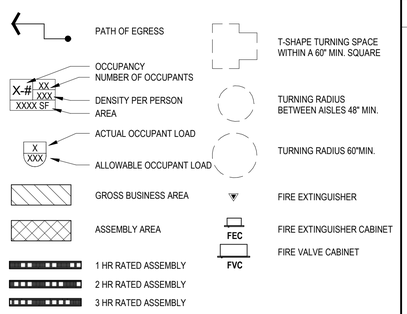
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GENERAL SYMBOL LEGEND

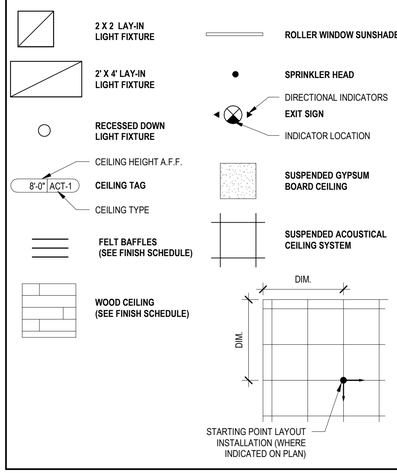
SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS



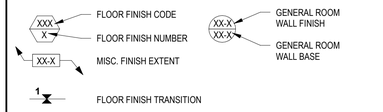
LIFE SAFETY SYMBOL LEGEND



REFLECTED CEILING SYMBOL LEGEND



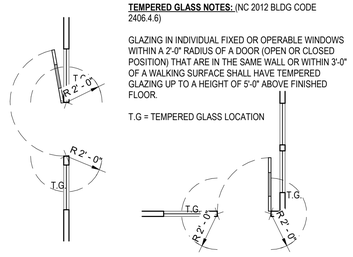
FINISH SYMBOL LEGEND



FLOOR FINISH TRANSITION LEGEND

1. **RESILIENT FLOOR TO EXISTING FINISHED FLOOR OR SUB-FLOOR** TO RECEIVE RUBBERSTRIP B.O.D. JOHNSONITE RRS-XX-C PROFILE
2. **CARPET FLOOR TO EXISTING FINISHED FLOOR** TO RECEIVE METAL EDGE GUARD. **CARPET TO EXISTING SUB-FLOOR** TO RECEIVE RUBBER STRIP B.O.D. JOHNSONITE EG-XX-G PROFILE
3. **TILE FLOOR TO EXISTING FINISHED FLOOR OR SUB-FLOOR** TO RECEIVE STAINLESS STEEL STRIP. TILE THAT TERMINATES AT DOOR JAMB SHALL RECEIVE STONE THRESHOLD TYP.
4. **RUBBER / VINYL STAIR LANDING TO EXISTING OR NEW FLOOR** TO RECEIVE RUBBER STRIP B.O.D. JOHNSONITE RRS-XX-C PROFILE.
5. **CARPET FLOOR TO RESILIENT FLOOR** TO RECEIVE STAINLESS STRIP B.O.D. SCHLUTER - DECO PROFILE

TEMPERED GLAZING DIAGRAM

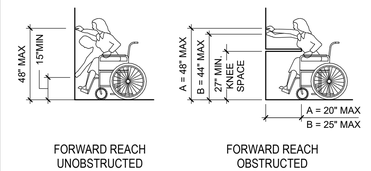


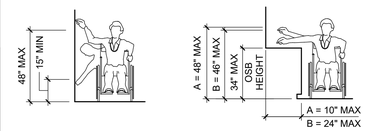
TEMPERED GLASS NOTES: (NC 2012 BLDG CODE 2406.4.6)

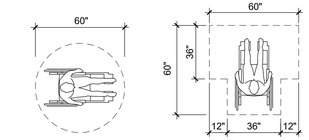
GLAZING IN INDIVIDUAL FIXED OR OPERABLE WINDOWS WITHIN A 2'-0" RADIUS OF A DOOR (OPEN OR CLOSED POSITION) THAT ARE IN THE SAME WALL OR WITHIN 3'-0" OF A WALKING SURFACE SHALL HAVE TEMPERED GLAZING UP TO A HEIGHT OF 5'-0" ABOVE FINISHED FLOOR.

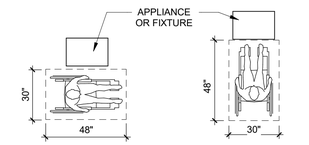
T.G = TEMPERED GLASS LOCATION

ACCESSIBILITY REQUIREMENTS

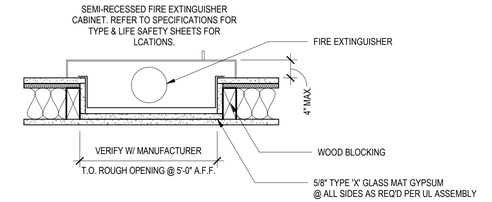






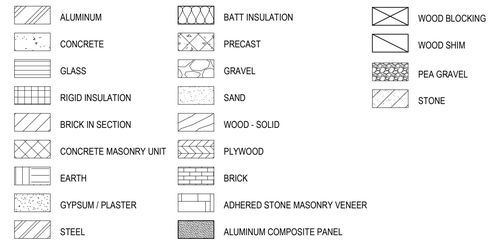


TYPICAL RECESSED F.E. CABINET DETAIL



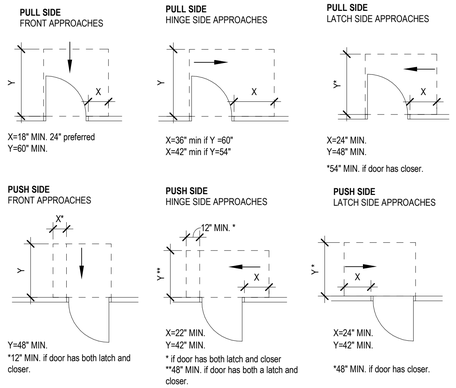
MAINTAIN THE INTEGRITY OF FIRE RATED CONSTRUCTION @ ALL EXTINGUISHER CABINETS

MATERIALS LEGEND



DOOR APPROACH ACCESSIBILITY REQUIREMENTS

NOTE:
1. ALL DOORS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES AS INDICATED.
2. ERECT ALL DOOR FRAMES & ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATION.
3. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF DOOR FRAMES & ADJACENT WALLS.



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No.	Description	Date

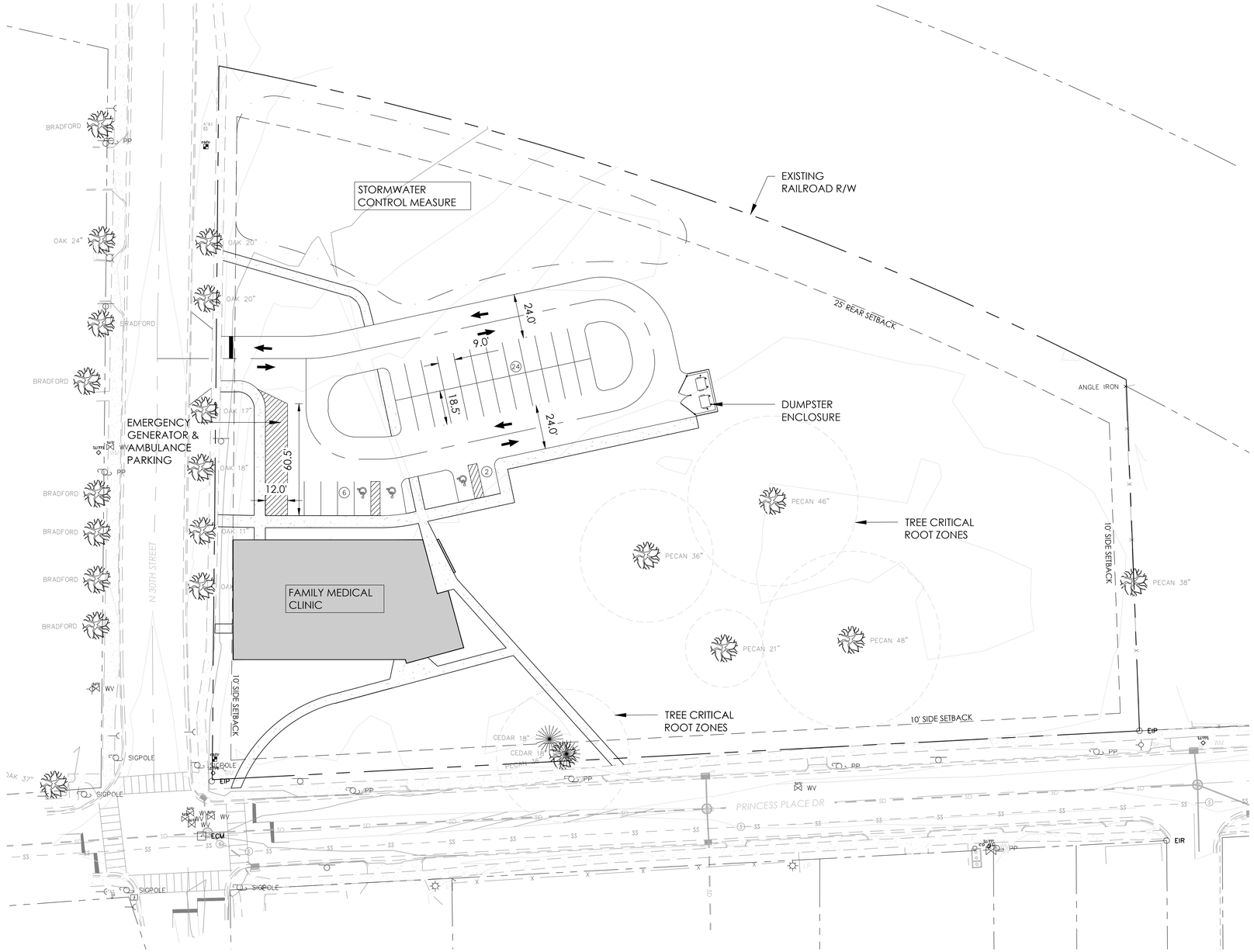
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Standard Information

ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

A051

12/20/2022 11:56:43 PM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place.rvt



SITE PLAN
Scale: 1" = 30'

FOR REFERNCE ONLY

SITE DATA TABLE		
ADDRESS	3009 PRINCESS PLACE DR. WILMINGTON, NC 28405	
OWNER	NOVANT HEALTH, INC.	
PIN		
PARCEL ID #	R04913-001-003-000	
ZONING DISTRICT	COMMUNITY BUSINESS	
LIMITS OF DISTURBANCE		
PROJECT LOT AREA	CURRENT: 3.4 ACRES (148,104SF)	PROPOSED: 3.4 ACRES (148,104SF)
WATERSHED		
RIVER BASIN	CAPE FEAR	
FLOODPLAIN	N/A	
WATERSHED OVERLAY DISTRICT	N/A	
USE	CURRENT: VACANT	PROPOSED: OFFICE & MEDICAL CLINIC
IMPERVIOUS	CURRENT: 802 SF	PROPOSED:
CAMA LAND USE CLASSIFICATION	URBAN	
COMMERCIAL BUSINESS DIMENSIONAL STANDARDS (UDO 18-194)		
SITE IS INSIDE THE 1945 CORPORATE LIMITS		
SETBACKS	MINIMUM REQUIRED	PROVIDED
FRONT (PRINCESS PLACE DR)	10'-0"	64'-0"
SIDE	10' OR 25' RESIDENTIAL ADJACENT	370' EAST | 10' WEST
REAR (RAILROAD ADJACENT)	25' (RESIDENTIAL ADJACENT)	198'-0"
BUILDING HEIGHT	MAXIMUM 45'	
BUILDING INFORMATION		
BUILDING CONSTRUCTION TYPE		
BUILDING LOT COVERAGE		
SQUARE FOOTAGE	MEDICAL CLINIC: 7,500 SF	
NONRESIDENTIAL BASELINE PARKING RATIOS BY USE (UDO Table 18-341.2)		
	MINIMUM REQUIRED	PROVIDED
PARKING SPACES	1 SPACE PER 250 SF GFA = 30 SPACES	32 SPACES
BICYCLE PARKING	2 SPACES OR 1 PER 5,000 SF OF GFA	2 SPACES
TREE PRESERVATION REQUIREMENTS (UDO 18-455)		
REGULATED TREES	Hardwood trees at least eight (8) inches DBH, all conifer trees at least twelve (12) inches DBH, and all dogwoods, magnolias, other ornamental flowering trees, and American hollies at least four (4) inches DBH anywhere on the site shall be considered regulated and protected, and shall be preserved	
	ALL EXISTING STREET TREES ALONG N 30TH ST	1 PROPOSED TO BE REMOVED FOR DRIVEWAY ENTRANCE
	MITIGATION WILL BE REQUIRED PER SECTION 18-460	
SIGNIFICANT TREES	Hardwood, long leaf pine, pocosin (pond) pine, black pine, and non-pine conifer trees at least twenty-four (24) inches DBH, all other pines at least thirty-two (32) inches DBH, and dogwoods, magnolias, American hollies and other ornamental flowering trees at least eight (8) inches DBH, anywhere on the site shall be considered significant and protected, and shall be preserved	
	5 PECAN TREES	NONE PROPOSED TO BE REMOVED
ESTIMATED TRIP GENERATION		

AM	PM	ADT
24	30	279

30' 15' 0 30'
SCALE: 1" = 30'

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

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1 GLENWOOD AVE. | SUITE 600
RALEIGH, NC 27603
PHONE | 919.789.9977

sepiinc.com

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N.C. CORPORATE SEAL F-0453

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1816 LAURIE E. DICKSON PRELIMINARY DO NOT CONSTRUCT

FOR REFERENCE ONLY NOT FOR CONSTRUCTION NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING 685

811 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES
Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE

3009 PRINCESS PLACE DR, WILMINGTON, NC

No.	Description	Date

SD OWNER REVIEW

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NOT FOR CONSTRUCTION

SITE PLAN

ISSUE DATE 10/5/2022
CHECKED L. DICKSON
SHEET BY J. ADRIATICO
PROJECT NUMBER 21-025

CS100

10/5/2022 11:57 AM X:\2022\SEP22.426.00_Novant_Princess_Place\LD\CAD\CDs\CS100.dwg

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

1. GC TO COORDINATE WITH VENDORS/INSTALLERS OF OWNER PROVIDED EQUIPMENT, FURNITURE, AND TELE-DATA ITEMS REGARDING DELIVERIES AND SCHEDULES.
2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
3. ALL POWER AND DATA SYMBOLS ARE EXISTING TO REMAIN , U.N.O. AND ARE SHOWN FOR REFERENCE ONLY.
4. TYPICAL DIMENSIONS ARE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.

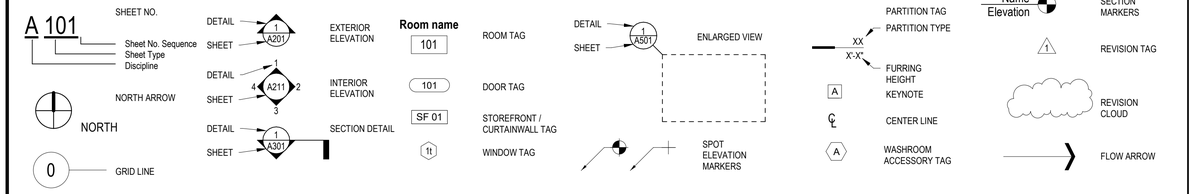
DOOR AND HARDWARE NOTES

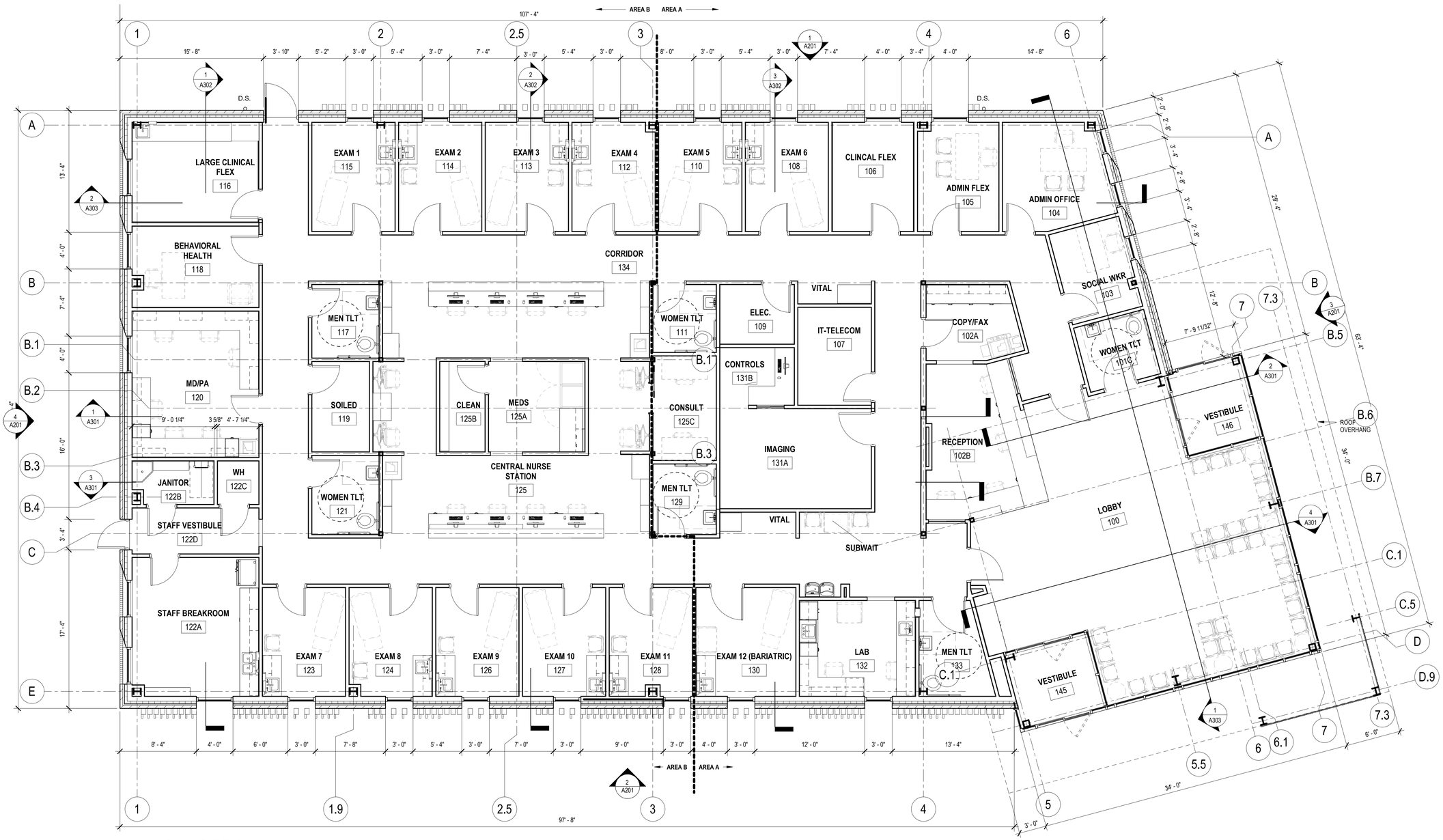
1. REFER TO SHEET **AXXX** FOR DOOR SCHEDULE
2. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT, U.N.O.
3. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PLACING ORDER.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
5. ALL WOOD DOORS TO BE PLAIN SLICED CHERRY, SLIP MATCHED, STAIN COLOR - TO MATCH PL-1.

CONSTRUCTION KEYNOTES

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS





1 A101 **FIRST FLOOR**
SCALE: 3/16" = 1'-0"

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No.	Description	Date

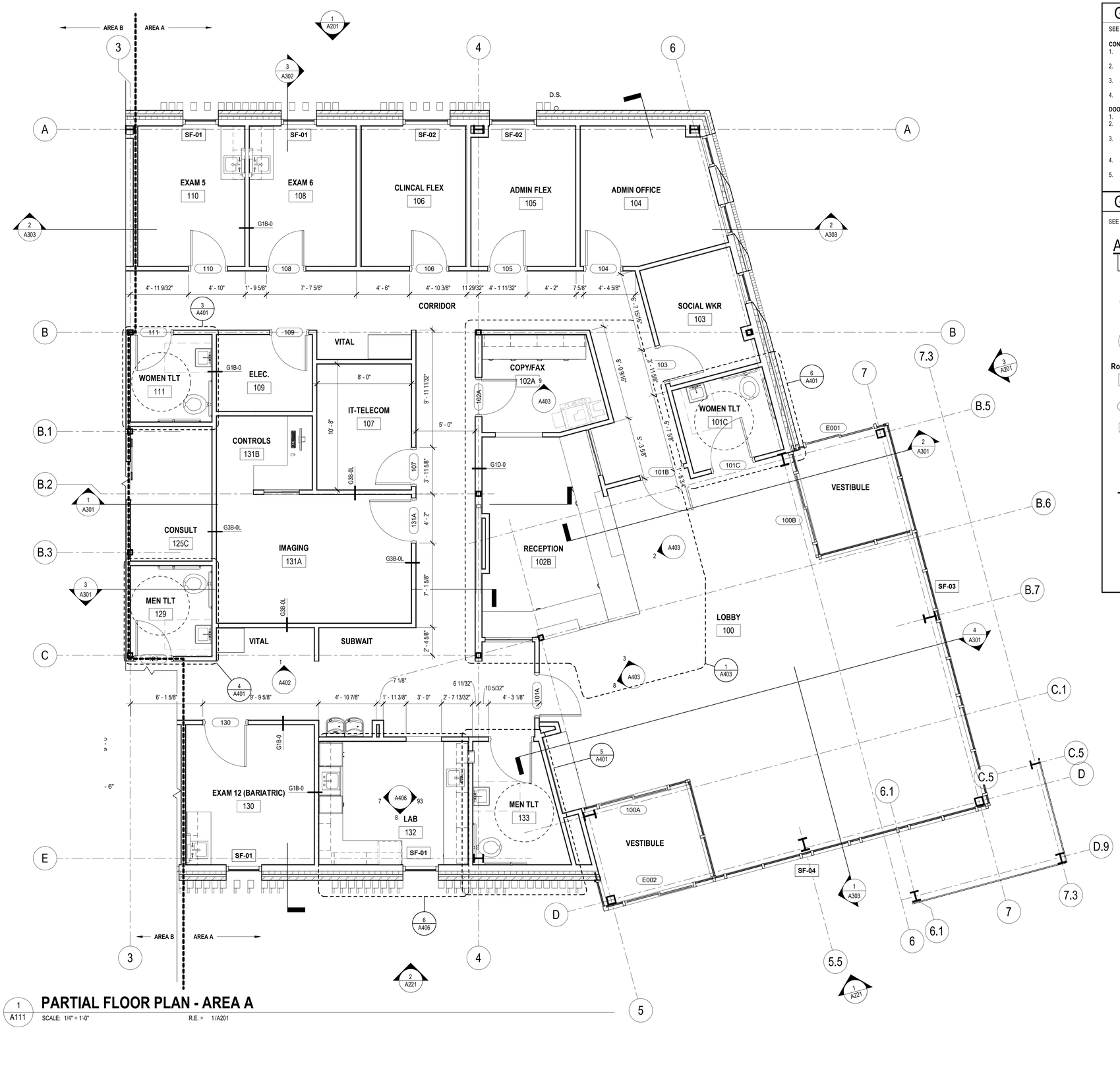
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FLOOR PLAN

ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

A101

12/21/2022 12:27:45 AM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place.rvt



1 A111 **PARTIAL FLOOR PLAN - AREA A**

SCALE: 1/4" = 1'-0" R.E. = 1/A201

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

1. GC TO COORDINATE WITH VENDORS/INSTALLERS OF OWNER PROVIDED EQUIPMENT, FURNITURE, AND TELE-DATA ITEMS REGARDING DELIVERIES AND SCHEDULES.
2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
3. ALL POWER AND DATA SYMBOLS ARE EXISTING TO REMAIN , U.N.O. AND ARE SHOWN FOR REFERENCE ONLY.
4. TYPICAL DIMENSIONS ARE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.

DOOR AND HARDWARE NOTES

1. REFER TO SHEET **AXXX** FOR DOOR SCHEDULE
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4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
5. ALL WOOD DOORS TO BE PLAIN SLICED CHERRY, SLIP MATCHED, STAIN COLOR - TO MATCH PL-1.

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

A 101 — Sheet No. Sequence, Sheet Type, Discipline — SHEET NO.

NORTH ARROW — NORTH

0 — GRID LINE

Room name — ROOM TAG

101 — DOOR TAG

SF 01 — STOREFRONT / CURTAINWALL TAG

1t — WINDOW TAG

PARTITION TAG

XX / X'-X" — PARTITION TYPE / FURRING HEIGHT

A — KEYNOTE

℄ — CENTER LINE

A — WASHROOM ACCESSORY TAG

DETAIL / SHEET — EXTERIOR ELEVATION

DETAIL / SHEET — INTERIOR ELEVATION

DETAIL / SHEET — SECTION DETAIL

DETAIL / SHEET — ENLARGED VIEW

SPOT ELEVATION MARKERS

Name / Elevation — SECTION MARKERS

REVISION TAG

REVISION CLOUD

FLOW ARROW

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No.	Description	Date

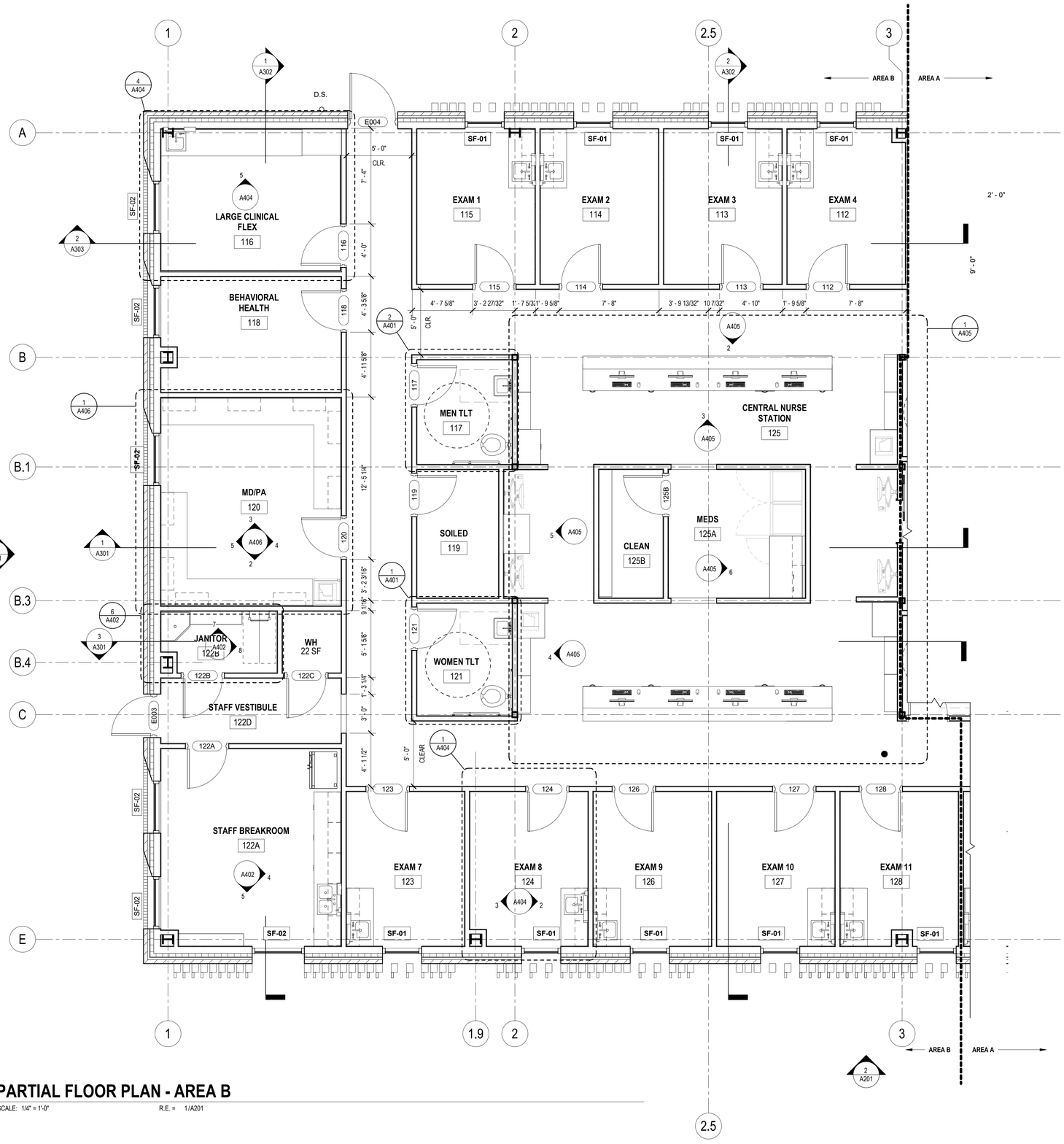
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ENLARGED FLOOR PLAN - AREA A

ISSUE DATE 12/20/2022
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SHEET BY Author
PROJECT NUMBER 21-010

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1 A112 **PARTIAL FLOOR PLAN - AREA B**

SCALE: 1/4" = 1'-0" R.E. = 1/A201

GENERAL NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

CONSTRUCTION NOTES

1. GC TO COORDINATE WITH VENDORS/INSTALLERS OF OWNER PROVIDED EQUIPMENT, FURNITURE, AND TELE-DATA ITEMS REGARDING DELIVERIES AND SCHEDULES.
2. REFER TO MILLWORK DETAILS AND COORDINATE WITH ELECTRICAL DRAWINGS FOR PLACEMENT OF ELECTRICAL OUTLETS.
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DOOR AND HARDWARE NOTES

1. REFER TO SHEET **AXXX** FOR DOOR SCHEDULE
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3. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PLACING ORDER.
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5. ALL WOOD DOORS TO BE PLAIN SLICED CHERRY, SLIP MATCHED, STAIN COLOR - TO MATCH PL-1.

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- A 101 — SHEET NO. (Sheet No. Sequence, Sheet Type, Discipline)
- NORTH ARROW — NORTH
- 0 — GRID LINE
- Room name / 101 — ROOM TAG
- 101 — DOOR TAG
- SF 01 — STOREFRONT / CURTAINWALL TAG
- 1t — WINDOW TAG
- PARTITION TAG
- XX / X'-X" — PARTITION TYPE / FURRING HEIGHT
- A — KEYNOTE
- ℄ — CENTER LINE
- A — WASHROOM ACCESSORY TAG
- DETAIL 1 / SHEET A201 — EXTERIOR ELEVATION
- DETAIL 4 2 3 / SHEET A211 — INTERIOR ELEVATION
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — SECTION MARKERS
- 1 — REVISION TAG
- REVISION CLOUD
- FLOW ARROW

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ENLARGED FLOOR PLAN - AREA B

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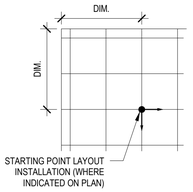


1 A121 **FIRST FLOOR REFLECTED CEILING PLAN**

SCALE: 1/8" = 1'-0" R.E. = 1/A201

REFLECTED CEILING SYMBOL LEGEND

- 2 X 2 LAY-IN LIGHT FIXTURE
- 2' X 4' LAY-IN LIGHT FIXTURE
- RECESSED DOWN LIGHT FIXTURE
- 8'-0" ACT-1 — CEILING HEIGHT A.F.F. / CEILING TAG / CEILING TYPE
- FELT BAFFLES (SEE FINISH SCHEDULE)
- WOOD CEILING (SEE FINISH SCHEDULE)
- ROLLER WINDOW SUNSHADE
- SPRINKLER HEAD
- DIRECTIONAL INDICATORS
- EXIT SIGN
- INDICATOR LOCATION
- SUSPENDED GYPSUM BOARD CEILING
- SUSPENDED ACOUSTICAL CEILING SYSTEM



GENERAL REFLECTED CEILING NOTES

1. ARCHITECTURAL CEILING PLANS SHALL GOVERN FOR LOCATIONS OF ALL DEVICES AS SHOWN. ENGINEER DOCUMENTS SHALL PREVAIL ONLY IN CASE OF SCOPE OF WORK AND ELEMENTS OCCURRING ABOVE CEILING. DISCREPANCIES (IF ANY) BETWEEN ARCHITECTURAL AND ENGINEERING DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION AT TIME OF BID. ANY COSTS ASSOCIATED WITH SPECIFICATION DISCREPANCIES NOT BROUGHT TO THE ARCHITECT'S ATTENTION IN WRITING SHALL BE THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR.
2. IF CEILING DIFFUSER, LIGHT FIXTURES OR OTHER ELEMENTS ON OR ABOVE THE CEILING SHALL NOT BE LOCATED AS SHOWN ON THE DRAWINGS, SUCH INTERFERENCE SHALL BE REPORTED IMMEDIATELY TO ARCHITECT FOR RELOCATION.
3. GC TO SUBMIT CUT SHEETS FOR ALL SPECIFIED FIXTURES TO ARCHITECT FOR REVIEW FOR COMPLIANCE WITH DESIGN INTENT.
4. ACOUSTICAL CEILING PANELS SHALL BE INSTALLED SO GRAIN LINES OF TILE ARE RUNNING IN SAME DIRECTION ON ALL CEILINGS.
5. ACOUSTICAL CEILING CONTRACTOR SHALL MIX PANELS IN A UNIFORM MANNER TO ELIMINATE BANDING OR BATCHING.
6. ALL DOWN LIGHTS SHALL BE CENTERED IN MODULE OF THE TILE INDICATED U.N.O.
7. FOLLOWING COMPLETION OF ACOUSTICAL CEILING INSTALLATION, ALL JOINTS SHALL BE STRAIGHT AND TRUE TO LINE, WITH EXPOSED SURFACES FLUSH AND LEVEL.
8. ALL DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF FIXTURE.
9. ALL DOWNLIGHTS / SPRINKLER HEADS OR MISC. CEILING MOUNTED COMPONENTS SHALL BE CENTERED IN MODULE OF THE TILE INDICATED UNLESS OTHERWISE NOTED.
10. PROVIDE EMERGENCY CIRCUITS AS REQUIRED BY CODE. SEE ELECTRICAL DRAWINGS FOR CIRCUITRY OF EMERGENCY LIGHT FIXTURES.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL QUANTITY AND LOCATION OF ALL EMERGENCY DEVICES (INCLUDING BUT NOT LIMITED OT EXIT SIGNS, FIRE ALARMS, ETC.) WITH MUNICIPAL AGENCY HAVING JURISDICTION.
12. ACCESS PANELS REQUIRED IN ANY CONSTRUCTION WITHIN THIS PROJECT SHALL BE APPROVED IN WRITING BY ARCHITECT AS TO SPECIFIC LOCATION, FINISH, ETC.
13. GYP. BOARD CEILINGS SHALL BE 1/2" GYP. BOARD ON DRYWALL SUSPENSION SYSTEM SECURELY HUNG FROM STRUCTURE ABOVE UNLESS OTHERWISE NOTED. (DO NOT SUPPORT FRAMING FROM DUCTWORK, PIPES, CONDUIT, OR OTHER NON-STRUCTURAL ELEMENTS).
14. ALL MATERIALS PLACED IN CEILING SHALL HAVE A PLENUM RATING.
15. STENCIL ALL RATED WALLS ABOVE CEILING. PROTECT ALL OPENINGS AT 1 AND 2 HOUR RATED WALLS - STENCIL SHALL BE PLACED AT MAX 20'-0" INTERVALS.

REFLECTED CEILING KEYNOTES

A	Add your Note Here
B	Add your Note Here

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No.	Description	Date

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REFLECTED CEILING PLAN

ISSUE DATE 12/20/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A121

12/20/2022 11:56:50 PM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place.rvt

VENT CALCULATIONS

MIN. REQUIREMENTS FOR ROOF AREA 1
ROOF AREA (RA): 0
REQUIRED VENTILATION (RA/300): 0

UPPER ROOF AREA (REQUIRES 50% OF TOTAL VENT AREA): 50% x 0 = 0 SF
RIDGE VENT LENGTH MINIMUM LENGTH REQUIRED = 0 LF x 0.125 SF/LF = 0
STATIC ROOF VENT AREA MINIMUM REQUIRED = 1.04 SF/UNIT x 0 VENTS = 0 SF

LOWER ROOF AREA (REQUIRES BALANCE OF TOTAL VENT AREA): 0 - 0 = 0 SF
SOFFIT VENT MINIMUM AREA REQUIRED = 0 LF x 0.035 SF/LF = 0

MIN. REQUIREMENTS FOR ROOF AREA 2
ROOF AREA (RA): 0
REQUIRED VENTILATION (RA/300): 0

UPPER ROOF AREA (REQUIRES 50% OF TOTAL VENT AREA): 50% x 0 = 0 SF
RIDGE VENT LENGTH MINIMUM LENGTH REQUIRED = 0 LF x 0.125 SF/LF = 0
STATIC ROOF VENT AREA MINIMUM REQUIRED = 1.04 SF/UNIT x 0 VENTS = 0 SF

LOWER ROOF AREA (REQUIRES BALANCE OF TOTAL VENT AREA): 0 - 0 = 0 SF
SOFFIT VENT MINIMUM AREA REQUIRED = 0 LF x 0.035 SF/LF = 0

MIN. REQUIREMENTS FOR ROOF AREA 3
ROOF AREA (RA): 0
REQUIRED VENTILATION (RA/300): 0

UPPER ROOF AREA (REQUIRES 50% OF TOTAL VENT AREA): 50% x 0 = 0 SF
RIDGE VENT LENGTH MINIMUM LENGTH REQUIRED = 0 LF x 0.125 SF/LF = 0
STATIC ROOF VENT AREA MINIMUM REQUIRED = 1.04 SF/UNIT x 0 VENTS = 0 SF

LOWER ROOF AREA (REQUIRES BALANCE OF TOTAL VENT AREA): 0 - 0 = 0 SF
SOFFIT VENT MINIMUM AREA REQUIRED = 0 LF x 0.035 SF/LF = 0

ROOF AREA DRAINAGE CALCS

ASSUMPTIONS PER NC PLUMBING CODE TABLE 1106.2 AND FIGURE 1106.1:
1) 4" / HR RAINFALL
2) 3"x4" RECTANGULAR DOWNSPOUT = 3,300 SF ROOF AREA

ROOF AREA 1 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 2 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 3 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 4 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 5 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 6 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 7 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 8 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF AREA 9 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

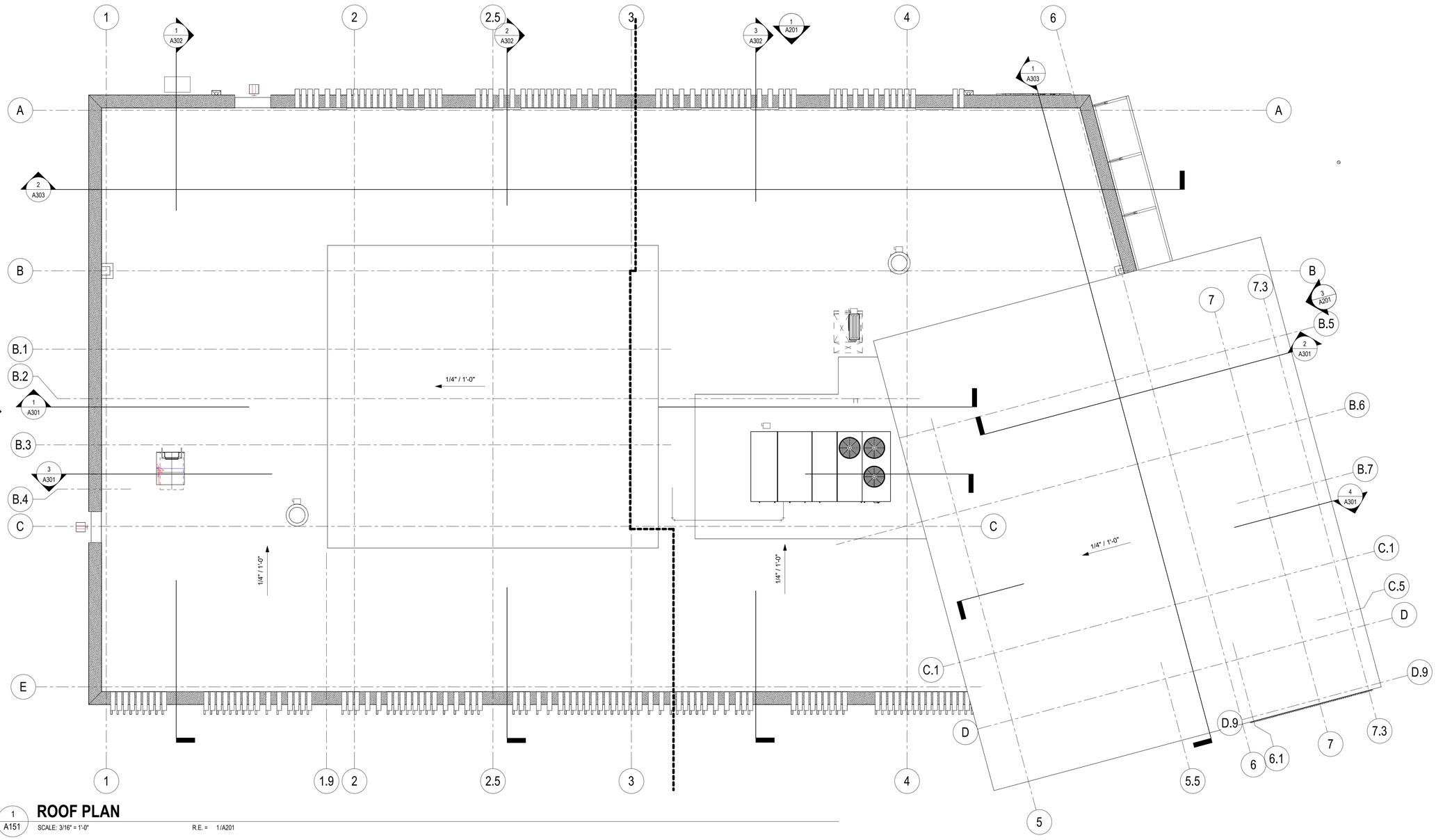
ROOF AREA 10 = 0 SF
0 DOWNSPOUTS PROVIDED: 0 SF < 0 SF **OK**

ROOF NOTES

1. INSTALL ALL ROOFING PRODUCTS PER MANUFACTURER STANDARD PROCEDURES AND DETAILS
2. SUBMIT SHOP DRAWINGS OF FINAL ROOF AND FLOOR TRUSS DESIGN TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL ROOF TRUSSES TO BE DESIGNED BY OTHERS.
3. THIS DRAWING SHOWS ARCHITECT'S DESIGN INTENT ONLY. SEE SEALED ENGINEERED TRUSS SHOP DRAWINGS FOR FINAL DESIGN.
4. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL ROOF FRAMING AND DETAIL INFORMATION.
5. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS WITHOUT TIE-INS.
6. ALL DOWNSPOUTS TO BE 3"x4" RECTANGULAR PREFINISHED ALUMINUM U.N.O.
7. MINIMIZE PENETRATIONS AND PLACE AND PLACE PLUMBING STACKS ON REAR ROOF WHERE POSSIBLE. COLOR TO MATCH ROOF.
8. PROVIDE RIDGE VENTS AT ALL ATTIC SPACES TO PROVIDE 50% OF THE REQUIRED ATTIC VENTILATION PER NCSBC SECTION 1203.2. WHERE RIDGE CONDITIONS FAIL TO PROVIDE ADEQUATE LENGTH TO MEET 50% OF THE REQUIRED ATTIC VENTILATION, PROVIDE ADDITIONAL STATIC VENTS A MINIMUM OF 3'-0" ABOVE SOFFIT VENTS. LOCATE ALL STATIC VENTS ON REAR FACING ROOF SLOPE. PAINT VENTS TO MATCH SURROUNDING ROOF SHINGLES.
9. HOLD RIDGE VENT 1'-0" MINIMUM OUT FROM EDGE OF ROOF.
10. RIDGE VENTS TO PROVIDE 18 SI/LF OF NFA (NET FREE AREA) = 0.125 SF/LF.
11. THROUGH-ROOF STATIC VENTS TO PROVIDE MIN. 150 SI/UNIT NFA = 1.04 SF/UNIT
12. ALL SOFFIT MATERIAL TO BE VENTED FIBER CEMENT SOFFIT AND PROVIDE MINIMUM 5 SI/LF NFA = 0.035 SF/LF
13. EXTEND ROOF WATERPROOFING UNDERLAYMENT 2'-0" BEYOND INTERIOR FACE OF STUD AT EXTERIOR WALLS. EXTEND IT 2'-0" TO EACH SIDE OF ALL ROOF VALLEYS.
14. EACH DRAFTSTOPPED AREA TO HAVE MIN. 20" x 30" ATTIC ACCESS. SEE UNIT PLANS FOR ACCESS LOCATION. COORDINATE WITH ROOF TRUSSES.

ROOF LEGEND

- PREFINISHED ALUMINUM GUTTER
- D.S. — PREFINISHED ALUMINUM DOWNSPOUT
- RIDGE VENT
- STATIC VENT
- FACE OF STUD WALL BELOW



1 A151 **ROOF PLAN**
SCALE: 3/16" = 1'-0" R.E. = 1/A201

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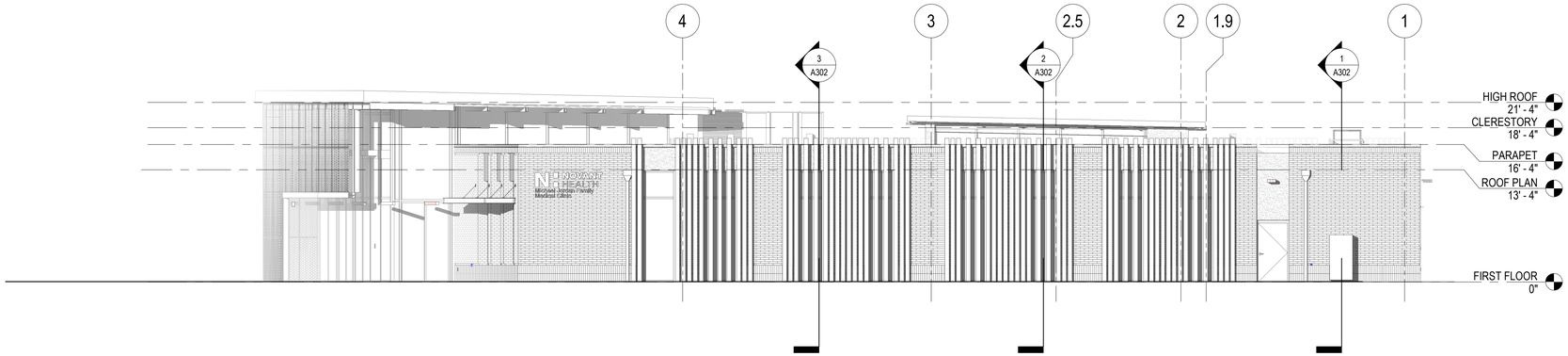
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ROOF PLAN

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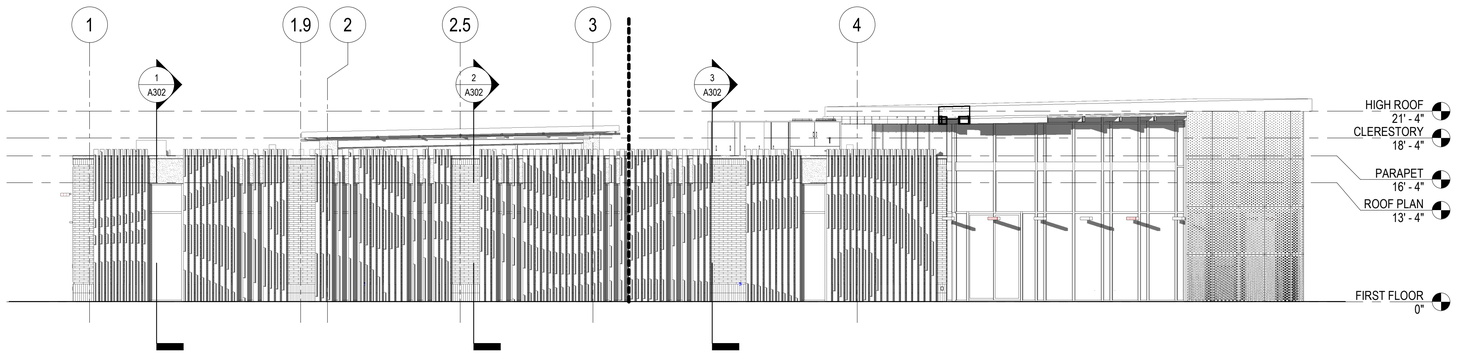
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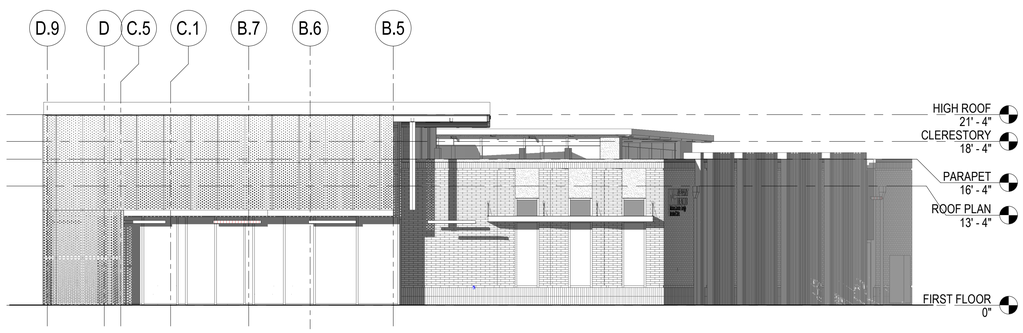
1 A201 **NORTH ELEVATION**

SCALE: 1/8" = 1'-0" R.E. = 1/A101



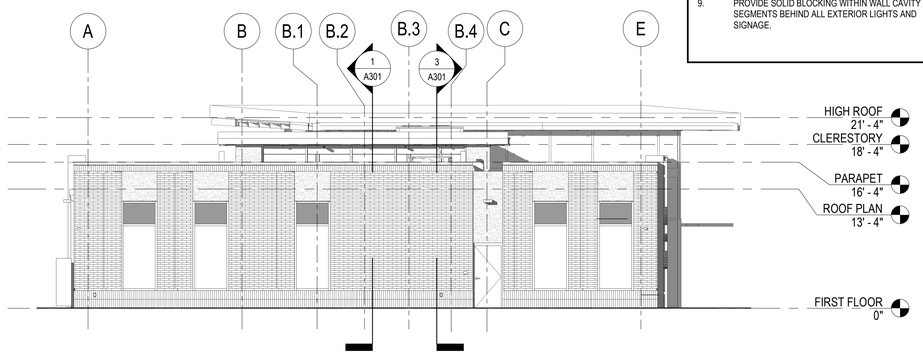
2 A201 **SOUTH ELEVATION**

SCALE: 1/8" = 1'-0" R.E. = 1/A101



3 A201 **EAST ELEVATION**

SCALE: 1/8" = 1'-0" R.E. = 1/A100



4 A201 **WEST ELEVATION**

SCALE: 1/8" = 1'-0" R.E. = 1/A101

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
- D.S. — DOWNSPOUT LOCATION
- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
- P1 — EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
2. FACE OF SLAB SHALL NOT BE EXPOSED AT SLOPED EXTERIOR PAVING CONDITIONS. COORDINATE EXT. PAVING CONDITIONS WITH CIVIL, TYP.
3. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.
4. VERTICAL CONTROL JOINTS ARE ILLUSTRATED FOR REFERENCE PURPOSES IN BUILDING ELEVATIONS. CJ'S ARE RECOMMENDED WHERE TRANSITIONS IN BRICK HEIGHT OCCUR, AT THE CORNERS OF LARGE OPENINGS, ALL INSIDE CORNERS, WITHIN 10' OF OUTSIDE CORNERS AND A MAXIMUM OF 30' O.C. MASONRY CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL EXPANSION JOINTS IN BRICKWORK PER TECHNICAL NOTES 18A AS PUBLISHED BY THE BRICK INDUSTRY ASSOCIATION.
5. NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
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8. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
9. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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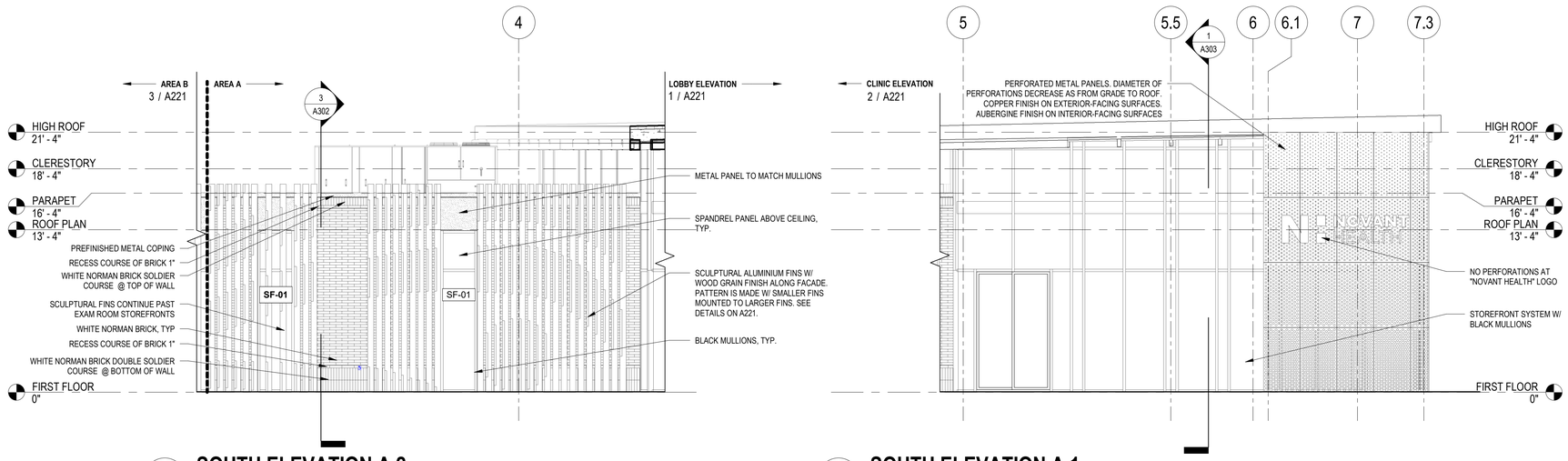
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EXTERIOR ELEVATIONS

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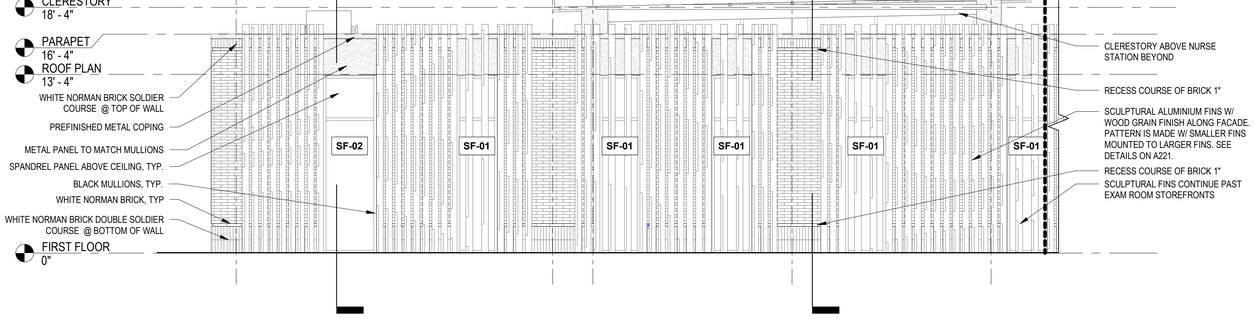
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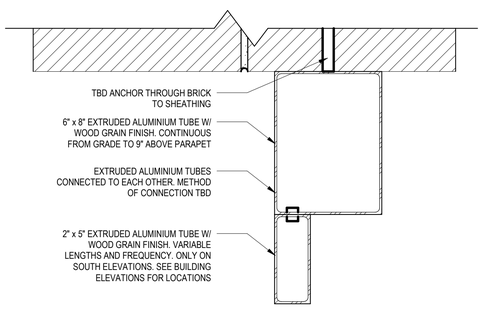


2 A221 **SOUTH ELEVATION A.2**
SCALE: 3/16" = 1'-0" R.E. = 1/A111

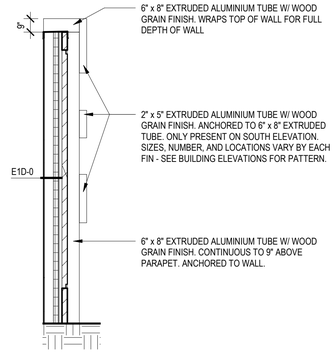
1 A221 **SOUTH ELEVATION A.1**
SCALE: 3/16" = 1'-0" R.E. = 1/A111



3 A221 **SOUTH ELEVATION B**
SCALE: 3/16" = 1'-0" R.E. = 1/A111



4 A221 **SCULPTURAL FIN PLAN DETAIL**
SCALE: 3" = 1'-0"



5 A221 **SCULPTURAL FIN SIDE ELEVATION**
SCALE: 1/4" = 1'-0"

EXTERIOR COLOR LEGEND

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
- D.S. — DOWNSPOUT LOCATION
- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / A301, SHEET — SECTION DETAIL
- DETAIL 1 / A501, SHEET — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
- P1 — EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

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1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
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5. NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
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8. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
9. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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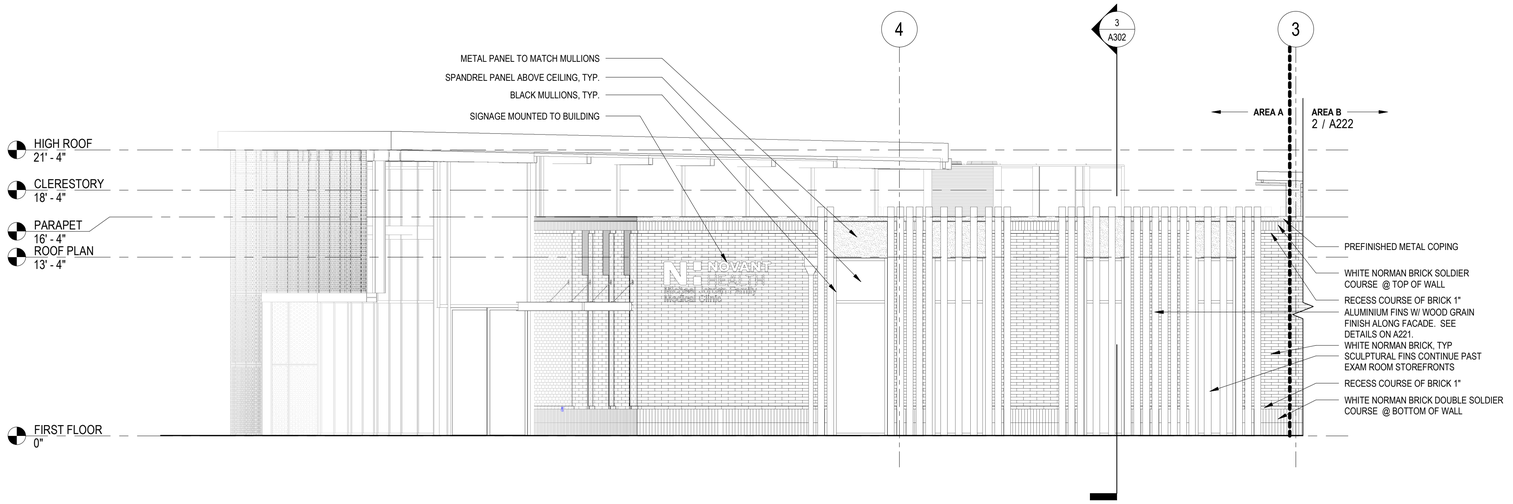
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ENLARGED EXTERIOR ELEVATIONS

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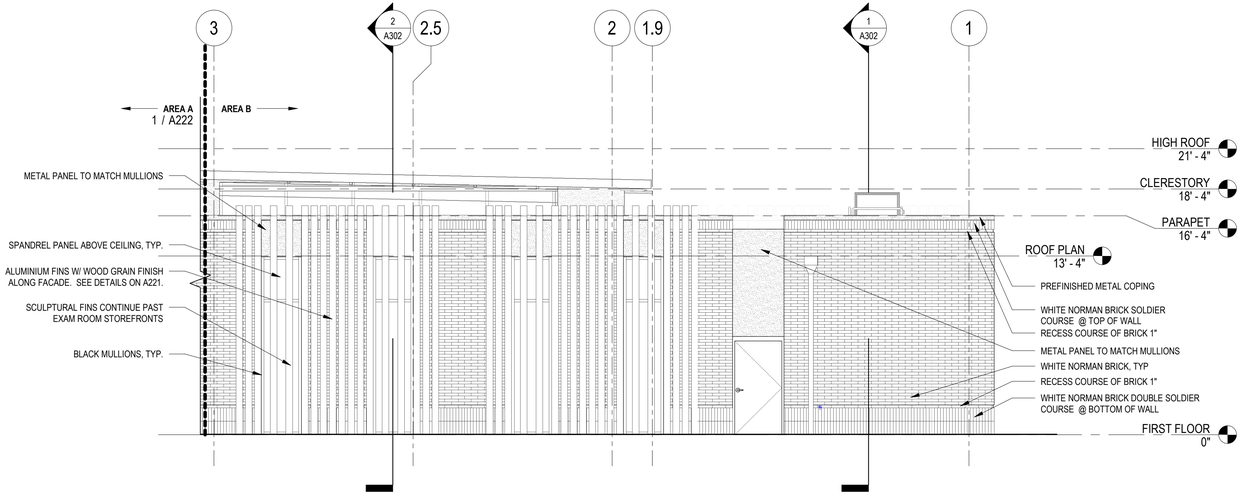
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1 / A222 **NORTH ELEVATION A**

SCALE: 3/16" = 1'-0" R.E. = 1/A112



2 / A222 **NORTH ELEVATION B**

SCALE: 3/16" = 1'-0" R.E. = 1/A100

EXTERIOR COLOR LEGEND

EXTERIOR SYMBOL LEGEND

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- DETAIL 1 / A501 SHEET — ENLARGED VIEW
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- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
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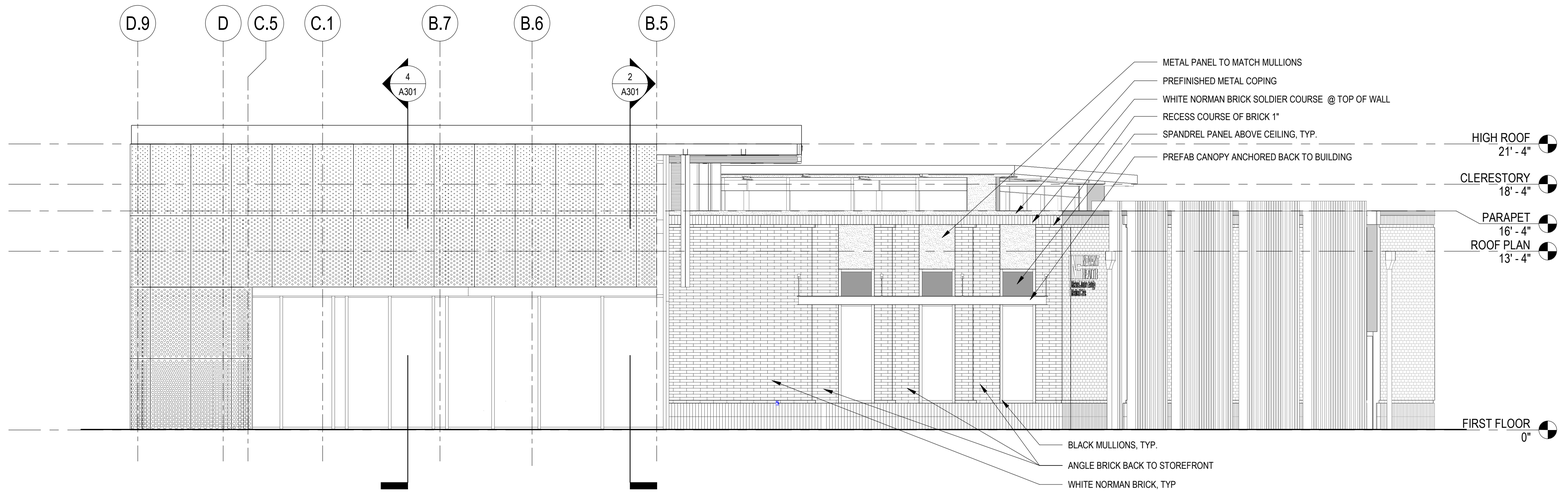
100% DESIGN DEVELOPMENT

ENLARGED EXTERIOR ELEVATIONS

ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

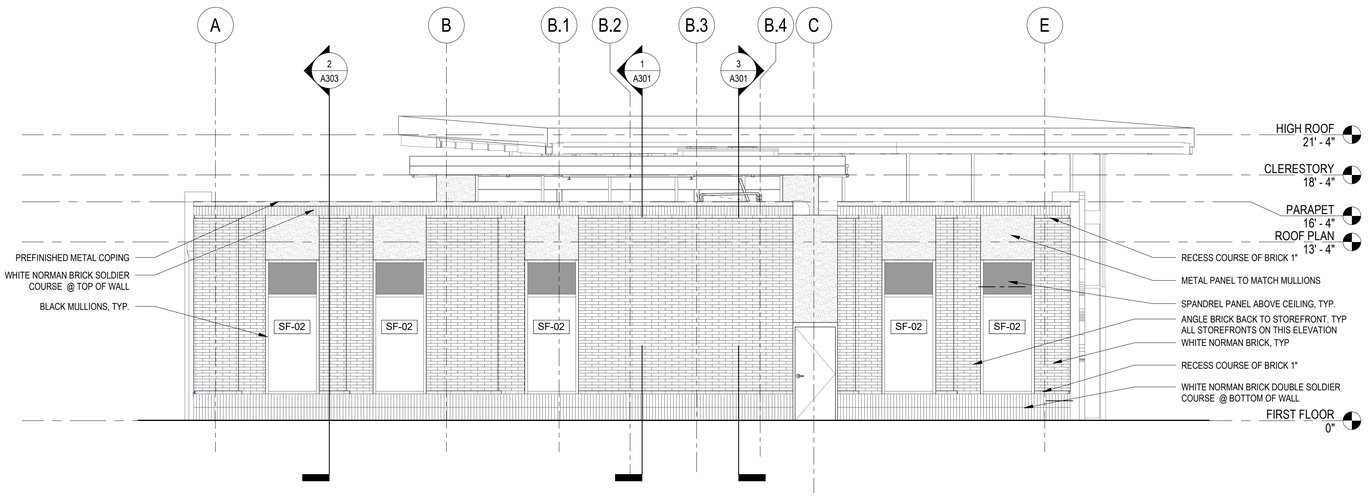
A222

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1 A223 **ENLARGED EAST ELEVATION**

SCALE: 3/16" = 1'-0" R.E. = 1/A100



2 A223 **ENLARGED WEST ELEVATION**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)
- D.S. — DOWNSPOUT LOCATION
- CJ — CONTROL JOINT LOCATION
- ℄ — CENTER LINE
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — LEVEL MARKER
- E1-A0 — EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES
- P1 — EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
2. FACE OF SLAB SHALL NOT BE EXPOSED AT SLOPED EXTERIOR PAVING CONDITIONS. COORDINATE EXT. PAVING CONDITIONS WITH CIVIL, TYP.
3. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.
4. VERTICAL CONTROL JOINTS ARE ILLUSTRATED FOR REFERENCE PURPOSES IN BUILDING ELEVATIONS. CJ'S ARE RECOMMENDED WHERE TRANSITIONS IN BRICK HEIGHT OCCUR, AT THE CORNERS OF LARGE OPENINGS, ALL INSIDE CORNERS, WITHIN 10' OF OUTSIDE CORNERS AND A MAXIMUM OF 30' O.C. MASONRY CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL EXPANSION JOINTS IN BRICKWORK PER TECHNICAL NOTES 18A AS PUBLISHED BY THE BRICK INDUSTRY ASSOCIATION.
5. NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
7. ALL PENETRATIONS, INCLUDING WINDOWS AND DOORS, SHALL BE SEALED TO THE BACKUP WALL AT THE PRIMARY MOISTURE BARRIER.
8. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
9. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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ENLARGED EXTERIOR ELEVATIONS

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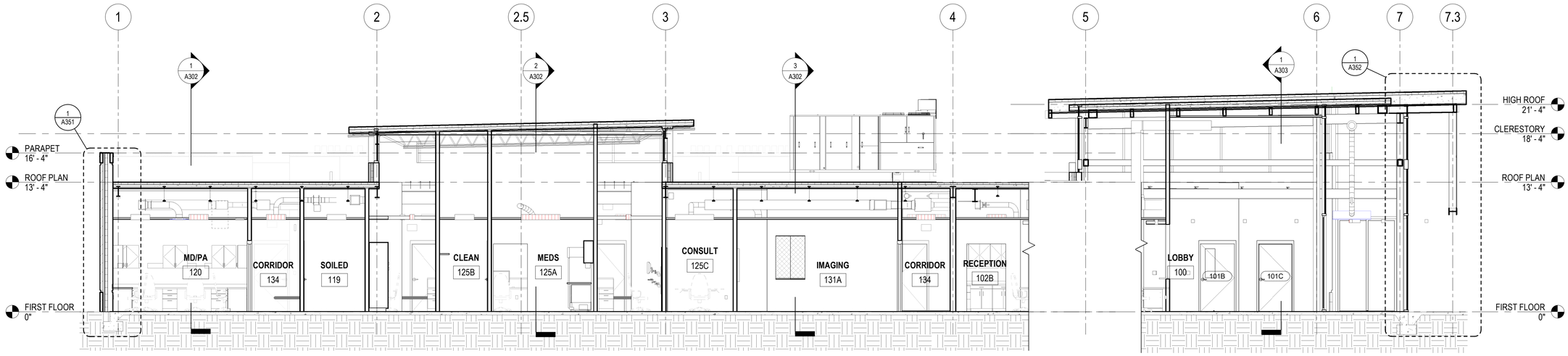
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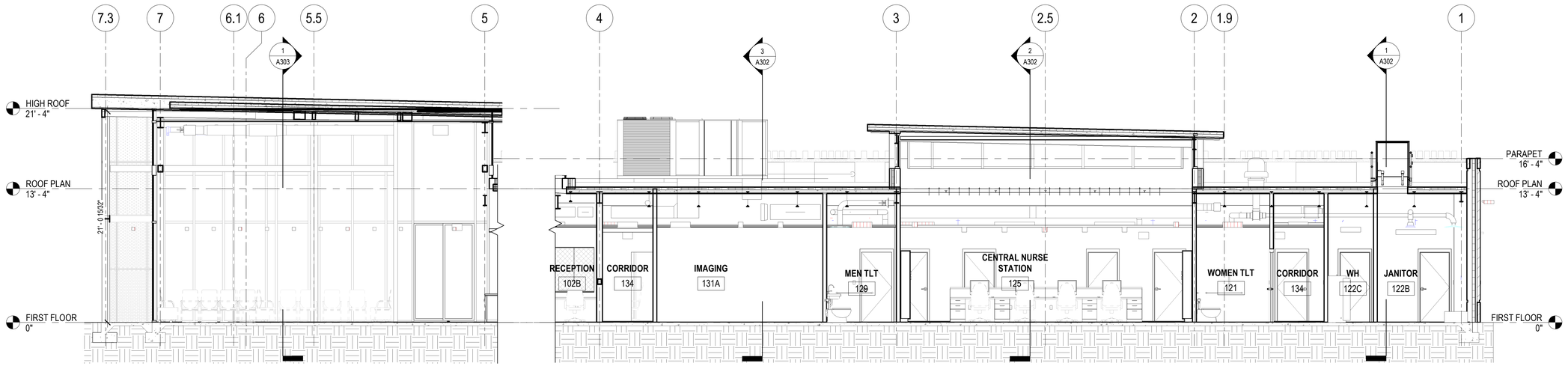


1 A301 **Section A1**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

2 A301 **SECTION A2**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



4 A301 **Section B2**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

3 A301 **Section B1**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

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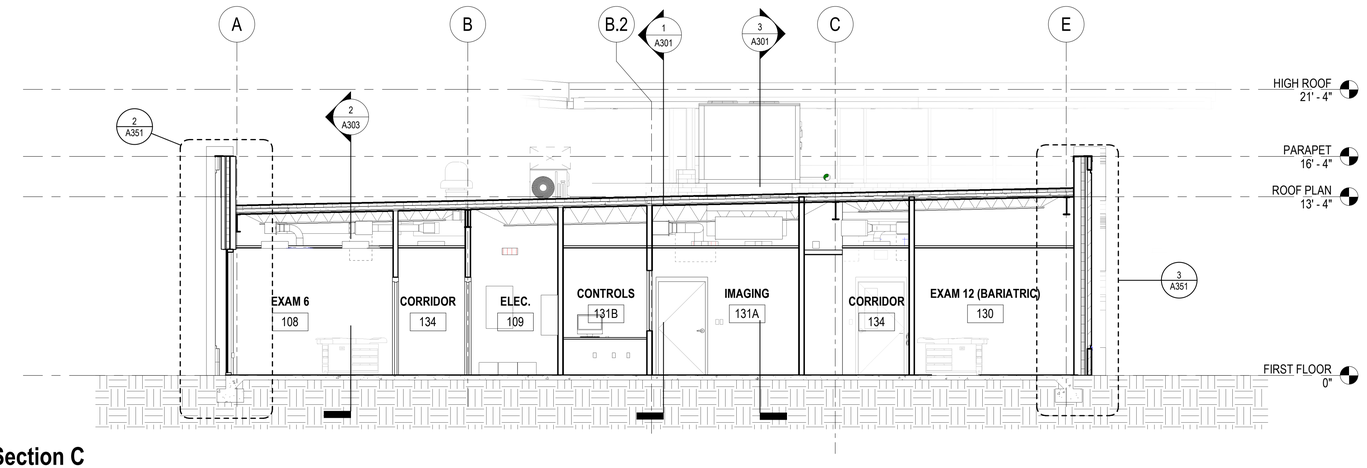
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BUILDING SECTIONS

ISSUE DATE 12/20/2022
CHECKED Checker
SHEET BY AB
PROJECT NUMBER 21-010

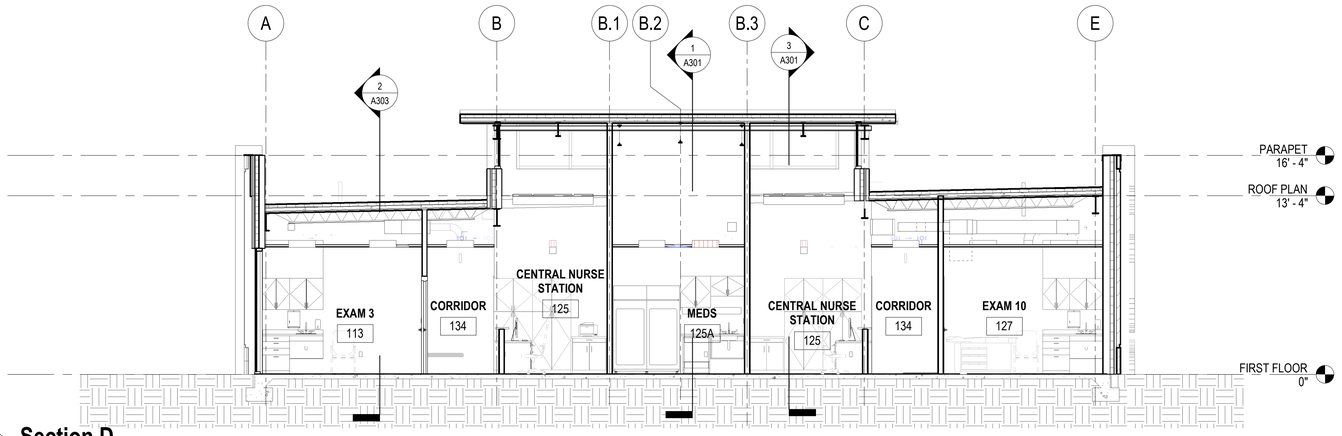
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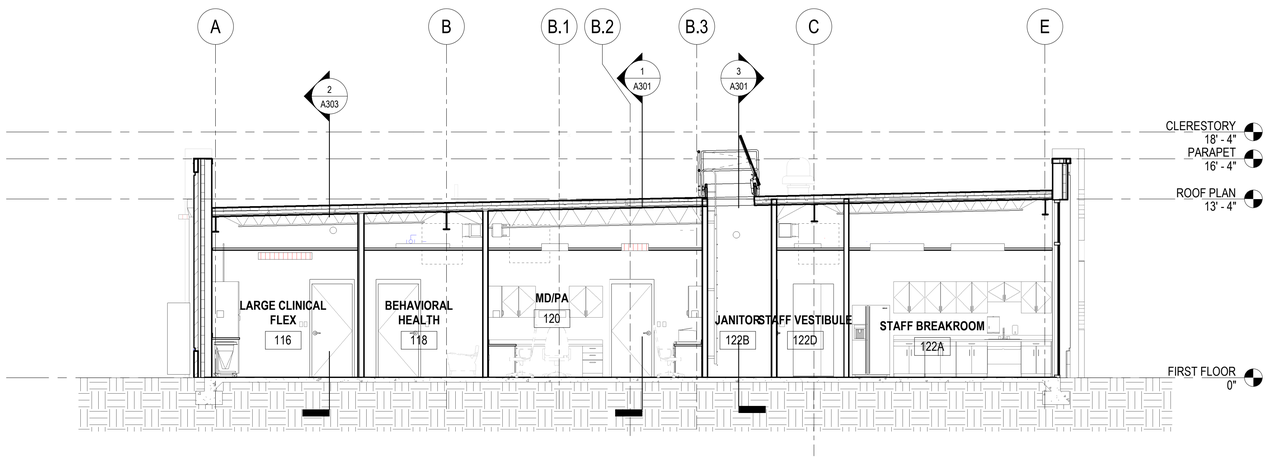
3 A302 **Section C**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



2 A302 **Section D**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



1 A302 **Section E**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

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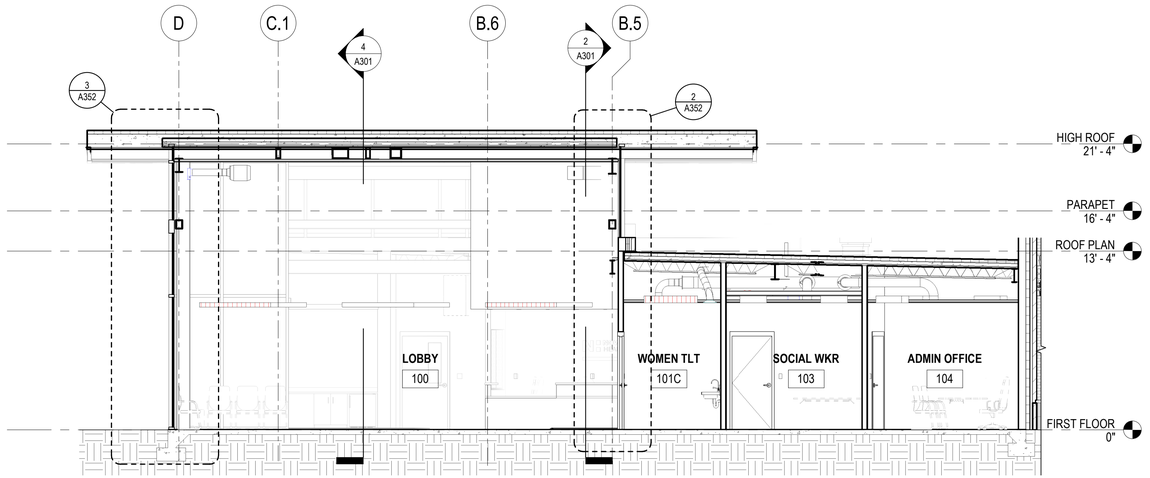
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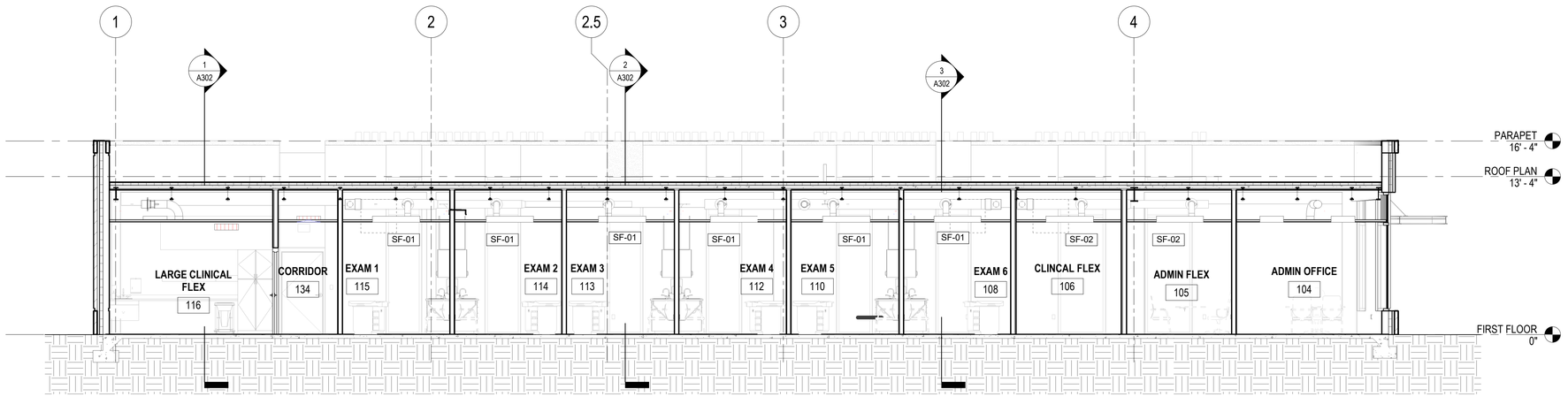
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1 A303 **SECTION F**

SCALE: 3/16" = 1'-0" R.E. = 1/A101



2 A303 **Section G**

SCALE: 3/16" = 1'-0" R.E. = 1/A101

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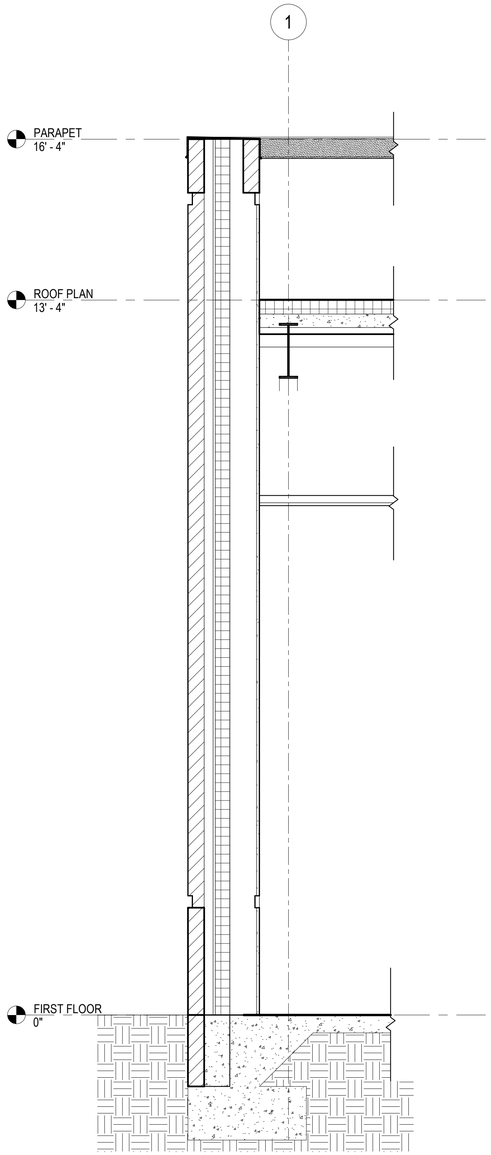
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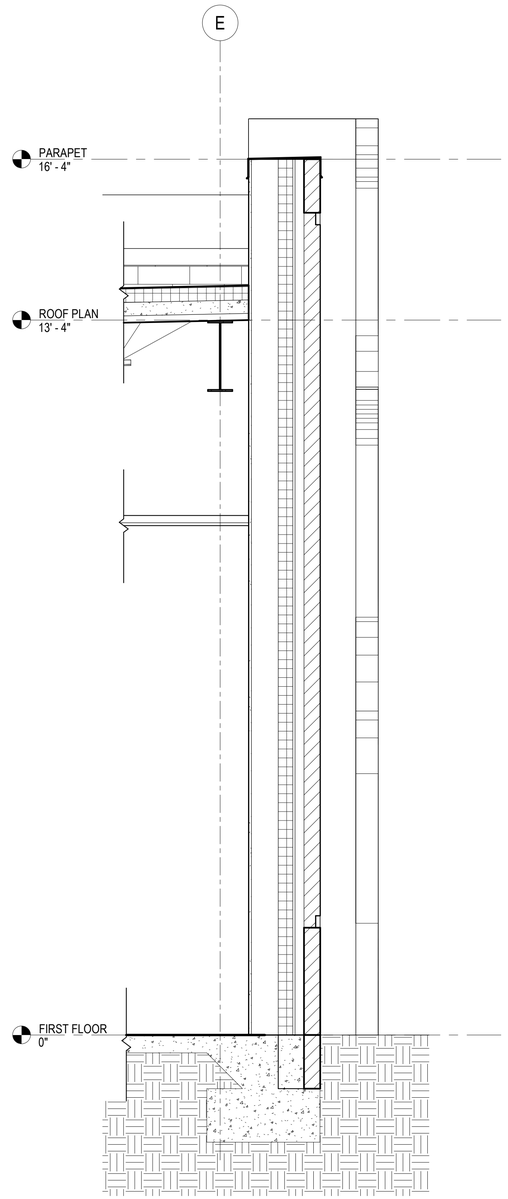
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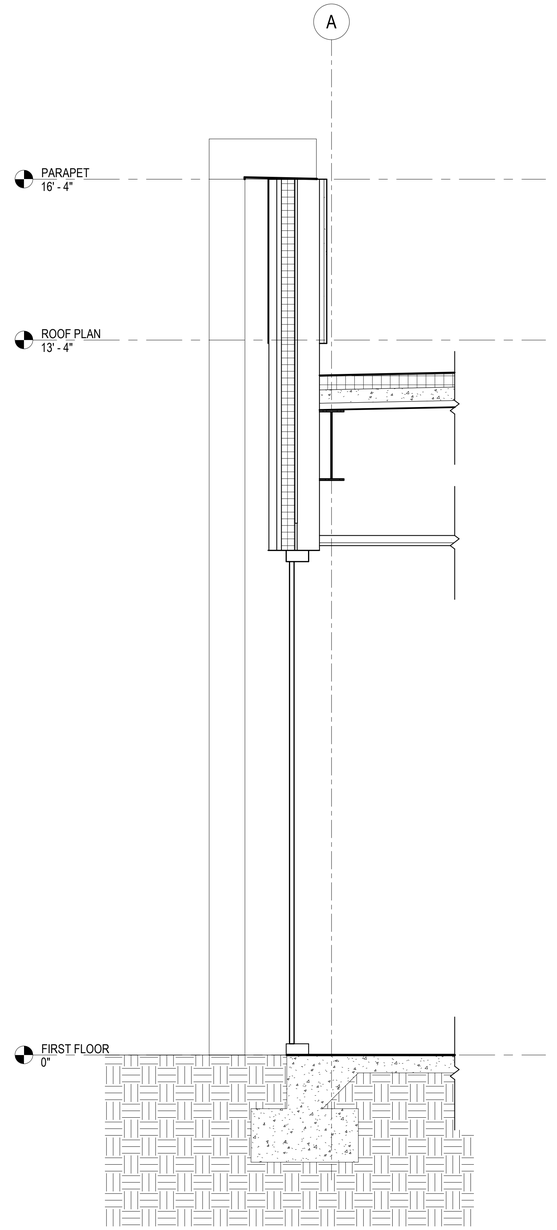
1 A351 **WALL SECTION**

SCALE: 3/4" = 1'-0" R.E. = 1 / A301



3 A351 **WALL WECTION @ EXTERIOR WALL E1**

SCALE: 3/4" = 1'-0" R.E. = 3 / A302



2 A351 **WALL SECTION THROUGH EXAM ROOMS**

SCALE: 3/4" = 1'-0" R.E. = 3 / A302

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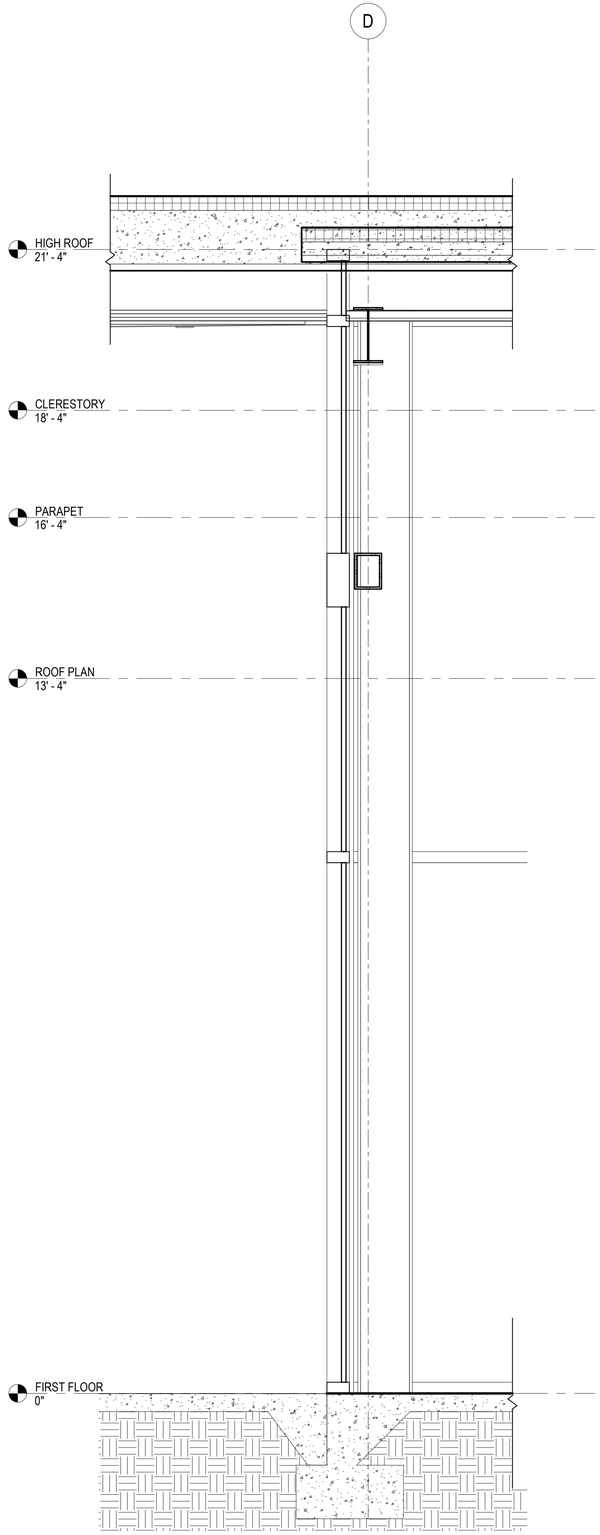
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WALL SECTIONS

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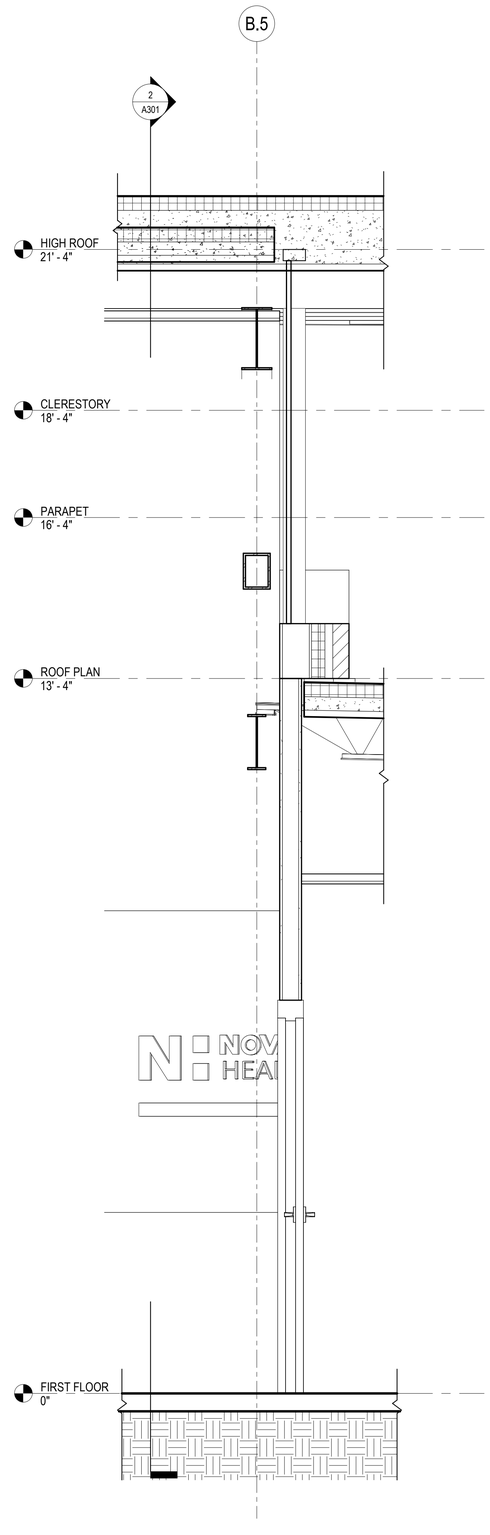
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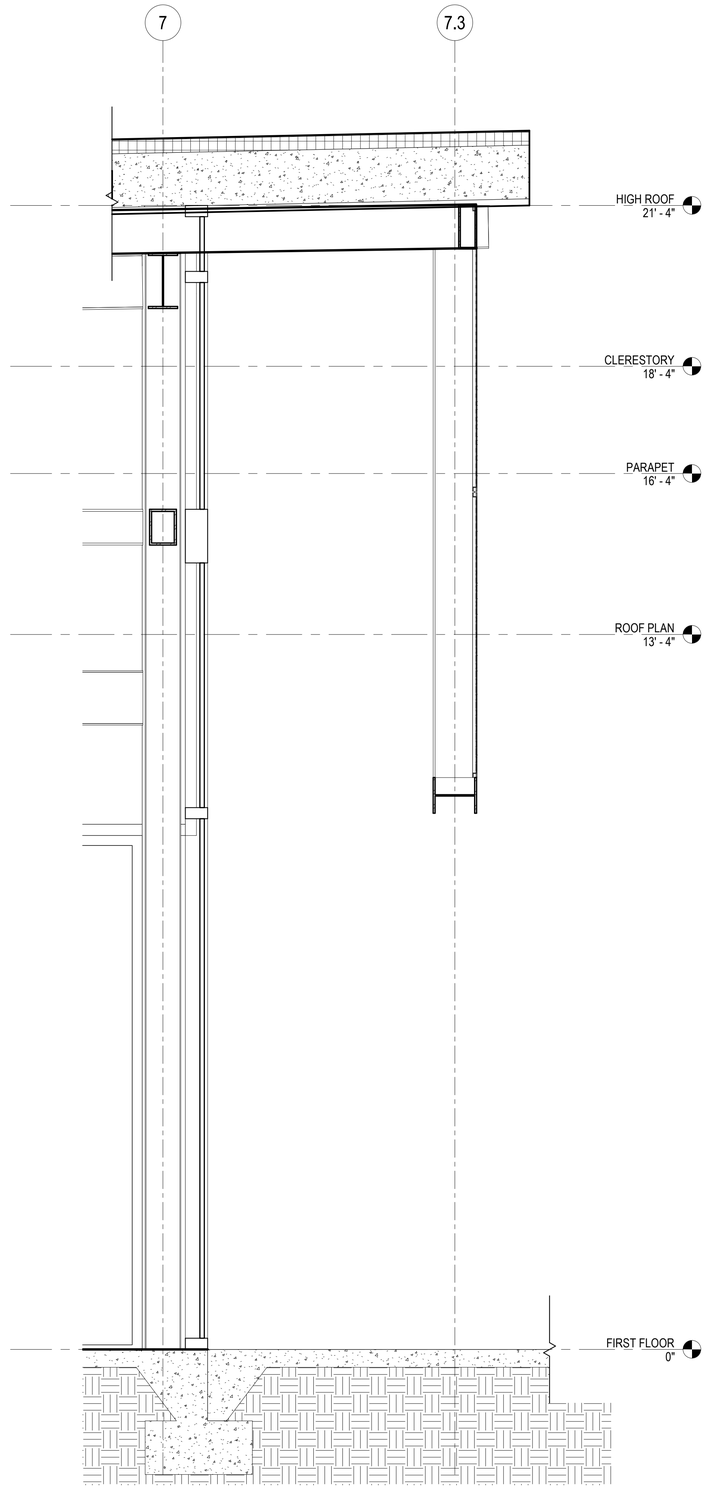
3 A352 **SECTION @ LOBBY C**

SCALE: 3/4" = 1'-0" R.E. = 1/A303



2 A352 **SECTION @ LOBBY B**

SCALE: 3/4" = 1'-0" R.E. = 1/A303



1 A352 **SECTION @ LOBBY A**

SCALE: 3/4" = 1'-0" R.E. = 2/A301

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WALL SECTIONS

ISSUE DATE 12/20/2022

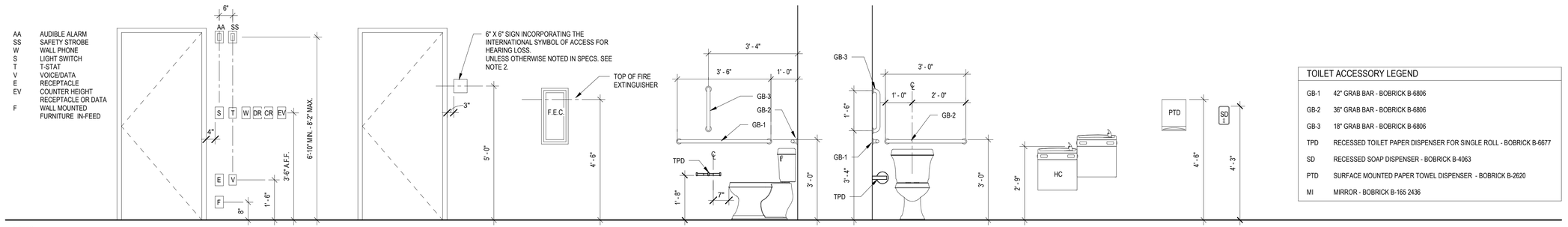
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A352

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NOTES:
1. ALL THERMOSTATS, SWITCHES AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
2. SIGNS CONTAINING TACTILE CHARACTERS TO BE LOCATED IN ALLOWANCE OF A 18" X 18" MIN. CLEAR FLOOR AREA, CENTERED ON THE TACTILE CHARACTERS, PER ANSI 703.3.11
3. GC. TO COORDINATE JUNCTION BOX AND RECEPTACLE LOCATIONS FOR SPECIALTY EQUIPMENT WITH EQUIPMENT PROVIDER.

FIRE EXTINGUISHER CABINET

ACCESSIBLE TOILET COMPARTMENT

ELECTRIC WATER COOLER REFER TO PLUMBING FIXTURES SCHEDULE

PAPER TOWEL DISPENSER

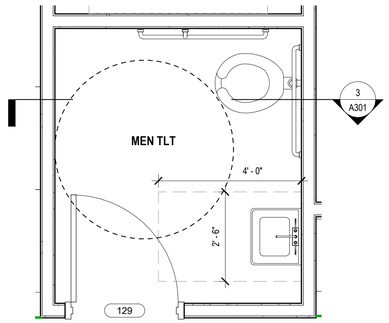
SOAP DISPENSER

TOILET ACCESSORY LEGEND	
GB-1	42" GRAB BAR - BOBRICK B-6806
GB-2	36" GRAB BAR - BOBRICK B-6806
GB-3	18" GRAB BAR - BOBRICK B-6806
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-6677
SD	RECESSED SOAP DISPENSER - BOBRICK B-4063
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620
MI	MIRROR - BOBRICK B-165 2436

7 A401

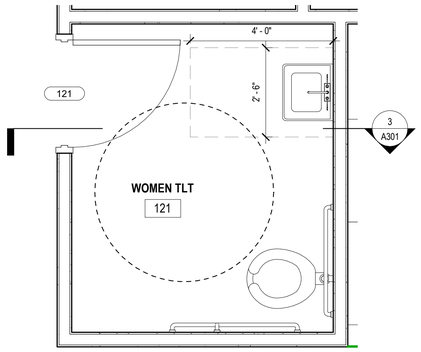
TYPICAL MOUNTING HEIGHTS

SCALE: 1/2" = 1'-0" R.E. = /



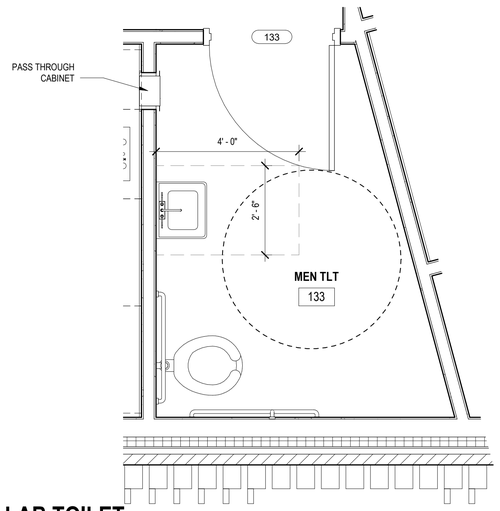
4 A401 **RESTROOM ENLARGED PLAN**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



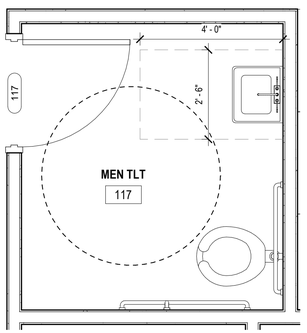
1 A401 **MEN'S TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A112



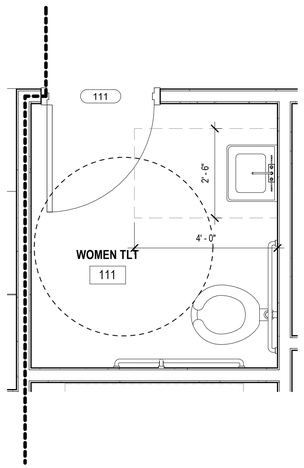
5 A401 **LAB TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



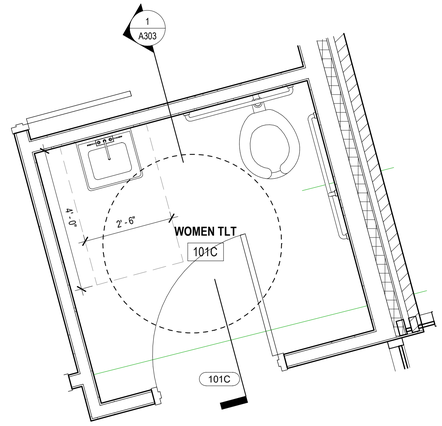
2 A401 **STAFF BREAK RR**

SCALE: 1/2" = 1'-0" R.E. = 1/A112



3 A401 **WOMEN'S TOILET**

SCALE: 1/2" = 1'-0" R.E. = 1/A111



6 A401 **WAITING ROOM RR**

SCALE: 1/2" = 1'-0" R.E. = 1/A111

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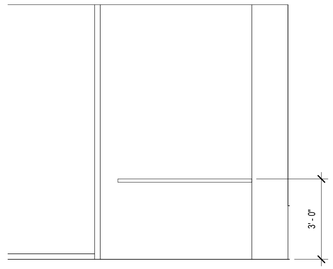
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TOILET PLANS AND ELEVATIONS

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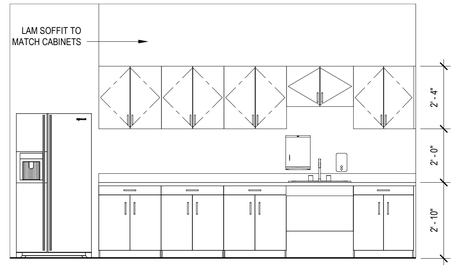
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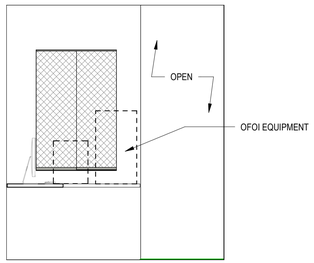
5 A402 **BREAK COUNTER**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



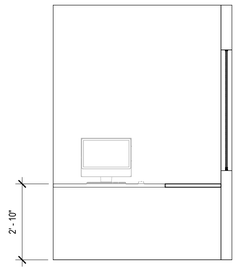
4 A402 **BREAK ROOM**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



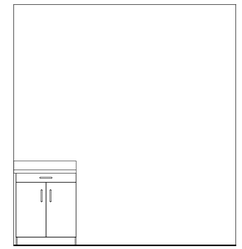
3 A402 **CONTROL SOUTH**

SCALE: 3/8" = 1'-0" R.E. = /



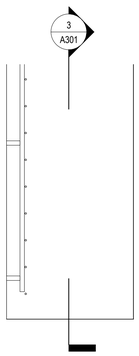
2 A402 **CONTROL**

SCALE: 3/8" = 1'-0" R.E. = /



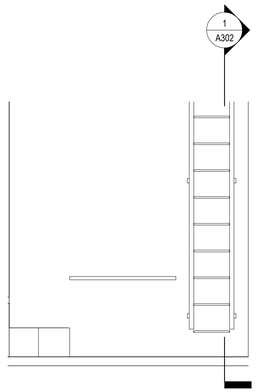
1 A402 **VITALS**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



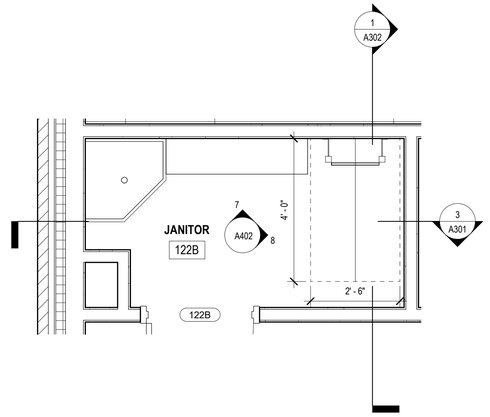
8 A402 **JANITOR - EAST**

SCALE: 3/8" = 1'-0"



7 A402 **JANITOR - NORTH**

SCALE: 3/8" = 1'-0"



6 A402 **JANITOR**

SCALE: 1/2" = 1'-0" R.E. = 1/A112

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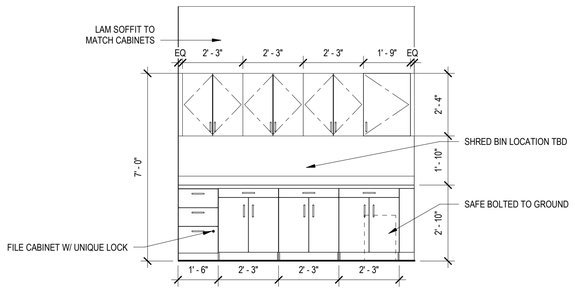
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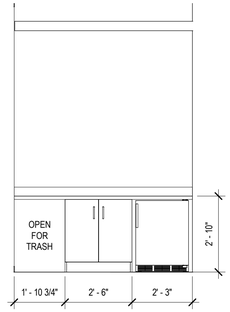
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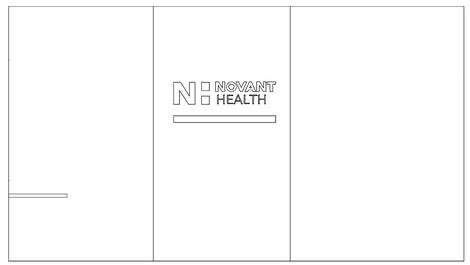
9 A403 **COPY**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



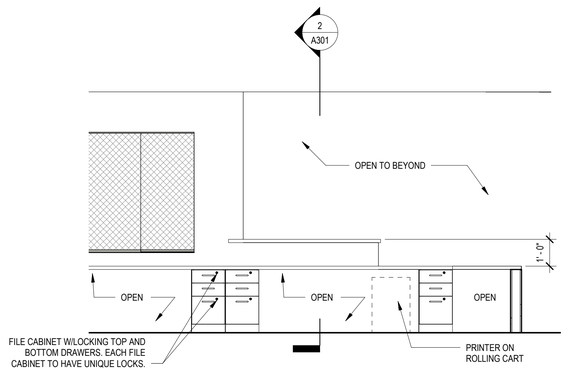
8 A403 **COFFEE BAR**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



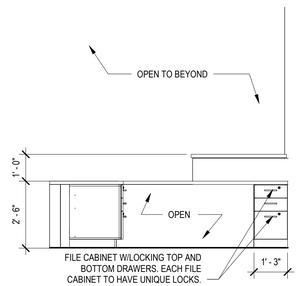
7 A403 **RECEPTION SIGNAGE**

SCALE: 3/8" = 1'-0" R.E. = 1/A403



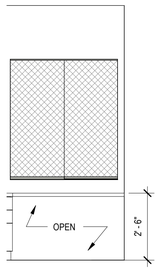
4 A403 **RECEPTION BACK**

SCALE: 3/8" = 1'-0" R.E. = 1/A403



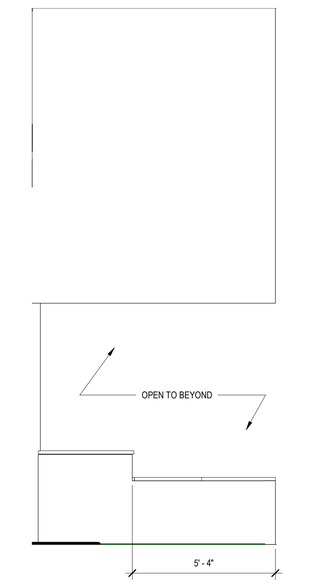
5 A403 **RECEPTION BACK 2**

SCALE: 3/8" = 1'-0" R.E. = 1/A403



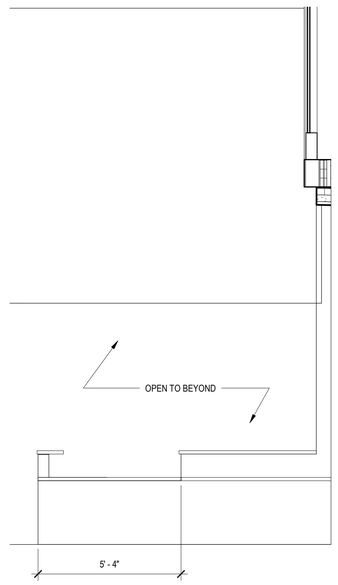
6 A403 **CHECK OUT**

SCALE: 3/8" = 1'-0"



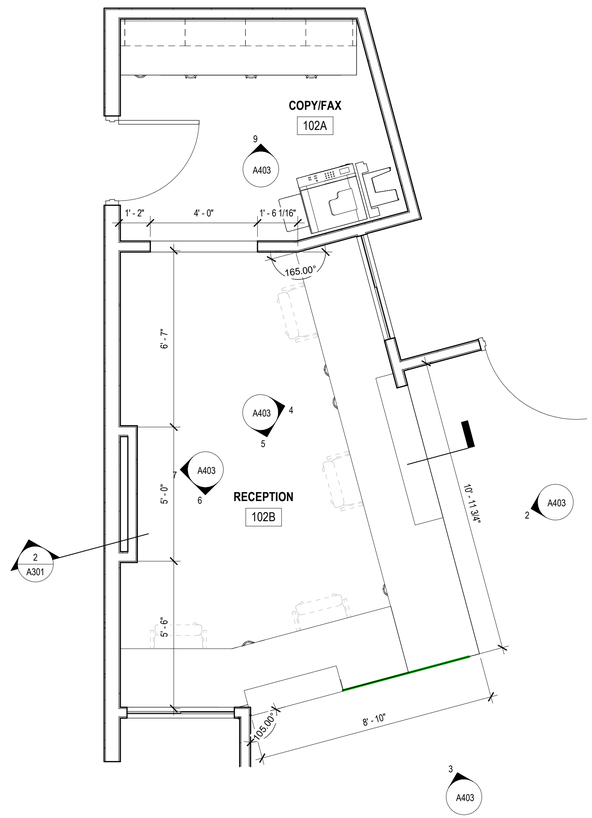
3 A403 **RECEPTION FRONT - SOUTH**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



2 A403 **RECEPTION FRONT - EAST**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



1 A403 **RECEPTION ENLARGED PLAN**

SCALE: 3/8" = 1'-0" R.E. = 1/A111

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RECEPTION ENLARGED

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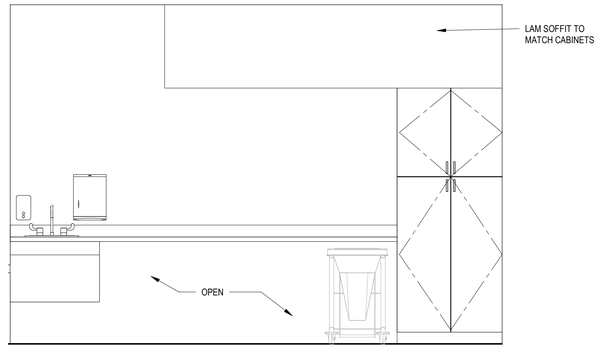
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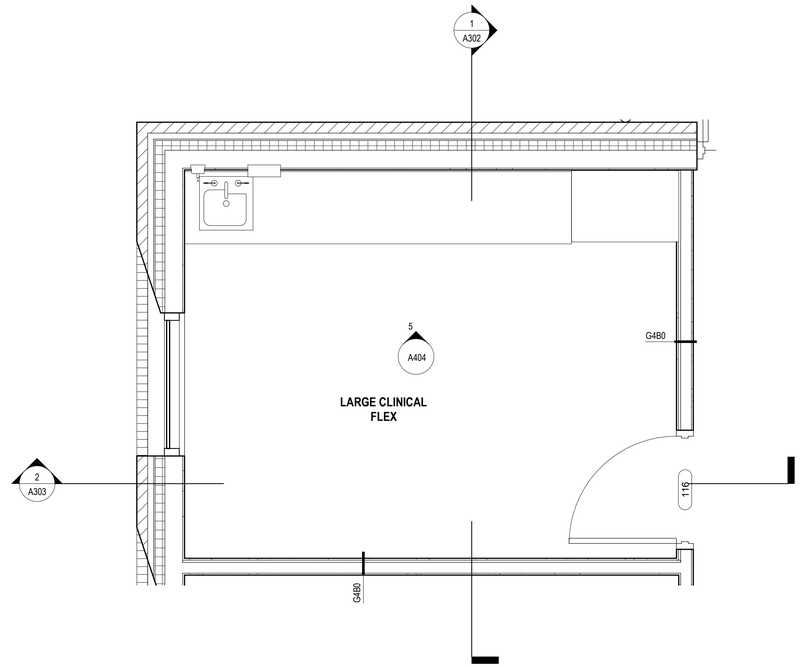
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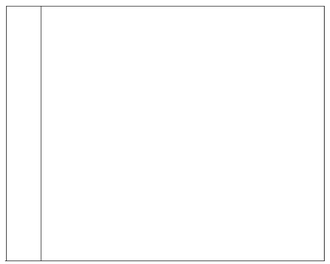
5 A404 CLNICAL FLEX

SCALE: 1/2" = 1'-0" R.E. = 1/A112



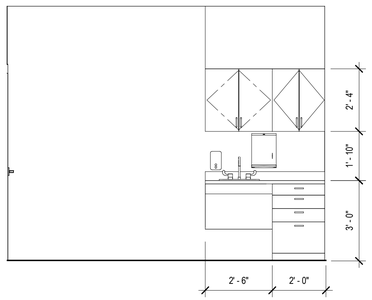
4 A404 CLINICAL FLEX ROOM ENLARGED

SCALE: 1/2" = 1'-0" R.E. = 1/A112



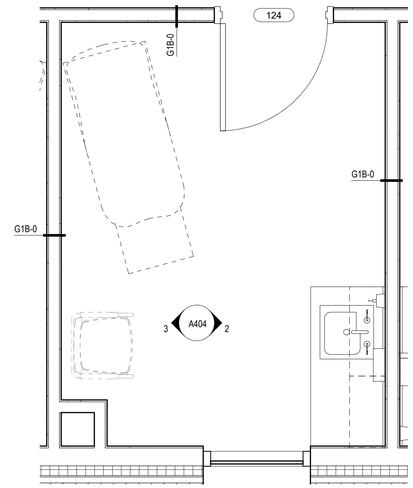
3 A404 EXAM ROOMS ACCENT WALL

SCALE: 3/8" = 1'-0" R.E. = 1/A112



2 A404 EXAM

SCALE: 3/8" = 1'-0" R.E. = 1/A112



1 A404 EXAM ROOM ENLARGED PLAN

SCALE: 1/2" = 1'-0" R.E. = 1/A112

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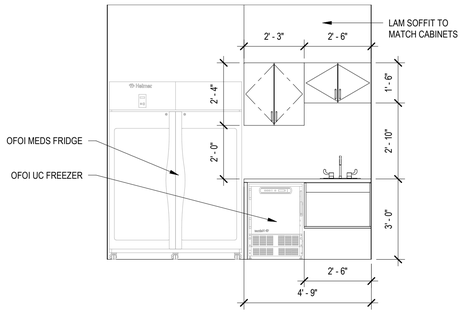
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EXAM/LARGE CLINICAL FLEX ENLARGED

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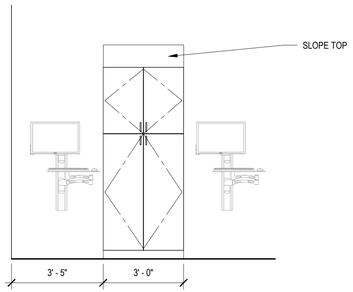
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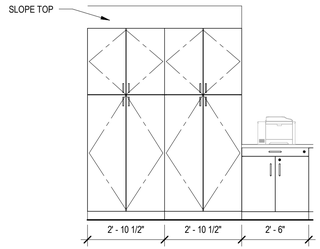
6 A405 **MEDS ROOM CASEWORK**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



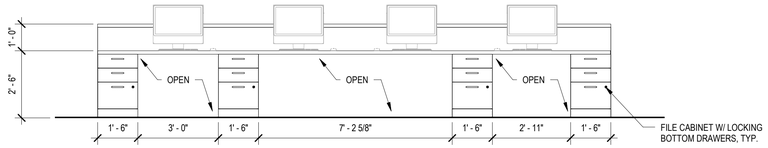
5 A405 **MD TOUCHDOWN WEST**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



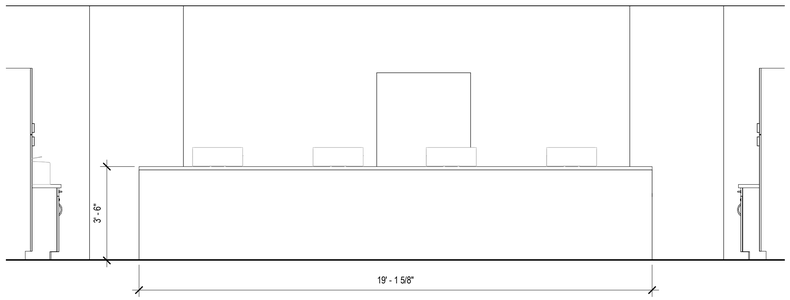
4 A405 **NURSE STATION PRINTER CASEWORK TYP**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



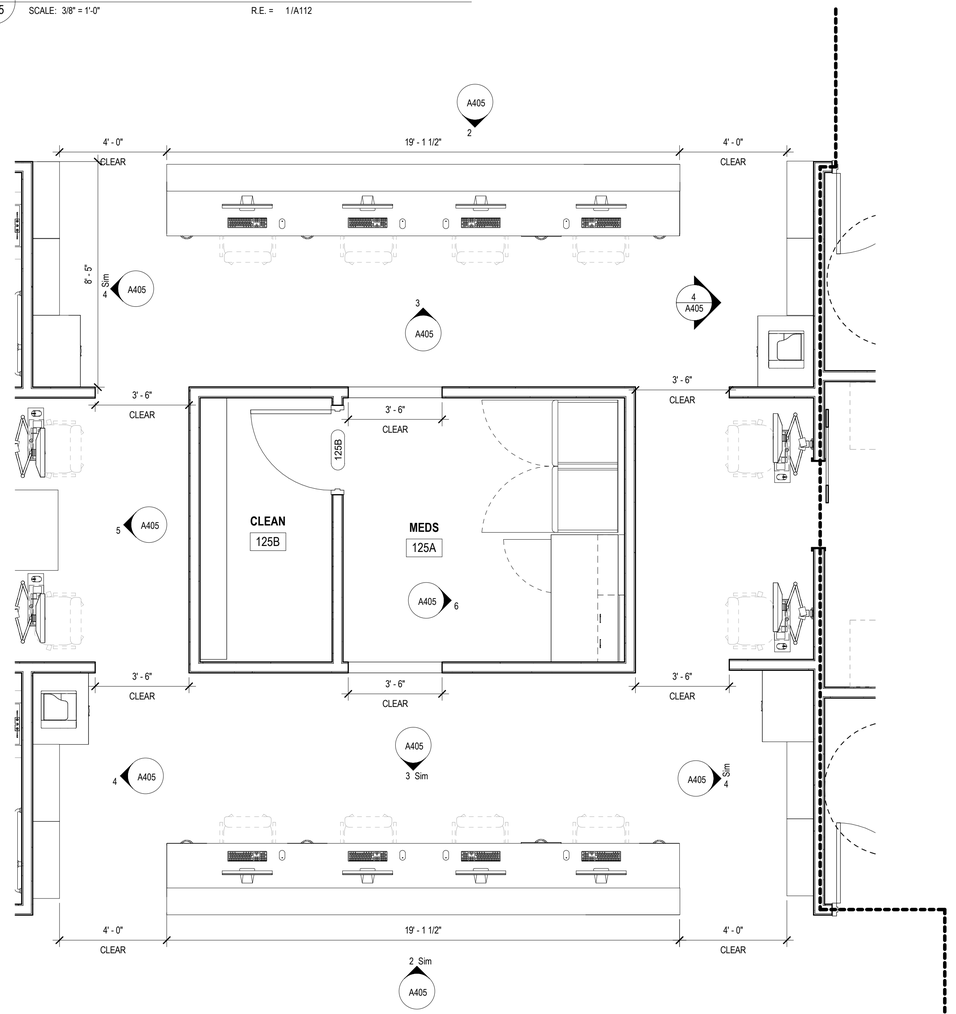
3 A405 **NURSE STATION BACK**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



2 A405 **NURSE STATION FRONT**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



1 A405 **NURSE STATION ENLARGED PLAN**

SCALE: 3/8" = 1'-0" R.E. = 1/A112

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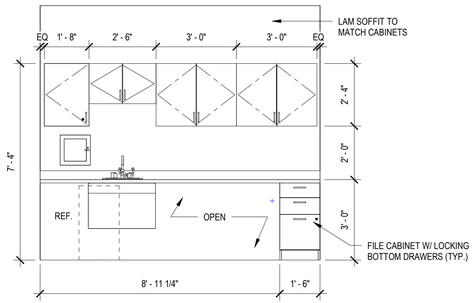
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NURSE STATION ENLARGED

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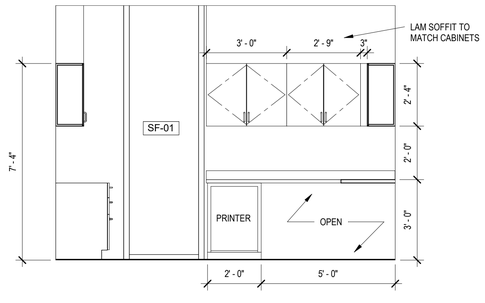
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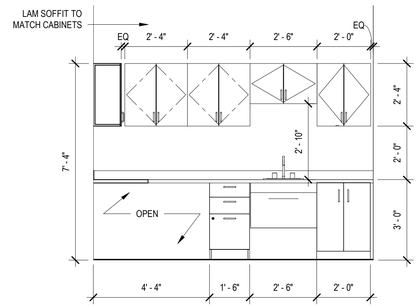
93 A406 **LAB EAST**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



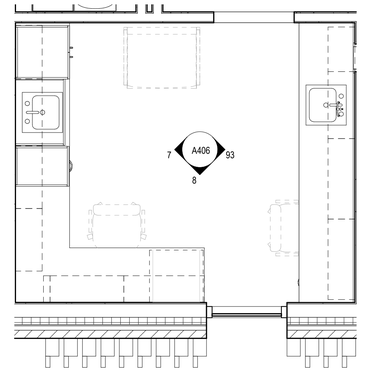
8 A406 **LAB SOUTH**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



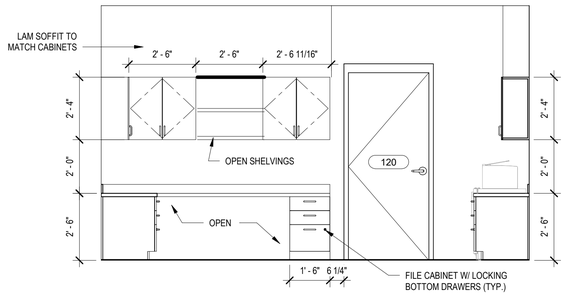
7 A406 **LAB WEST**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



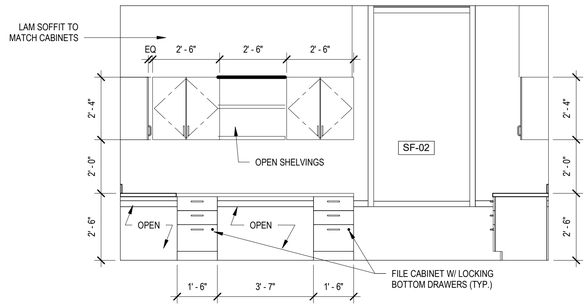
6 A406 **LAB ENLARGED PLAN**

SCALE: 3/8" = 1'-0" R.E. = 1/A111



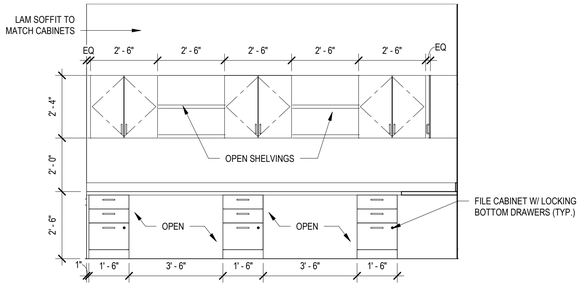
4 A406 **MD/PA EAST**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



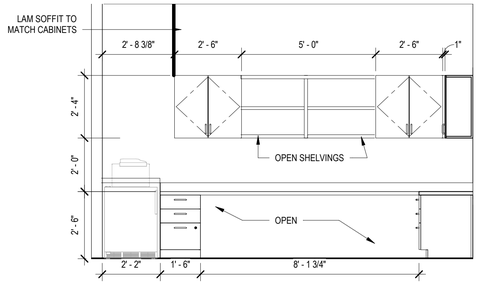
5 A406 **MD/PA WEST**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



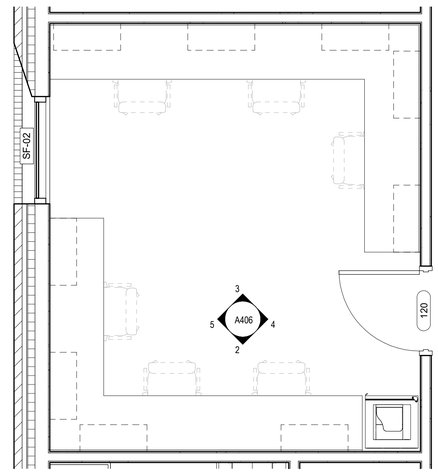
3 A406 **MD/PA NORTH**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



2 A406 **MD/PA SOUTH**

SCALE: 3/8" = 1'-0" R.E. = 1/A112



A402

1 A406 **MD/PA ROOM ENLARGED PLAN**

SCALE: 3/8" = 1'-0" R.E. = 1/A112

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MD/PA ROOM AND LAB ROOM

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1 A701 **FINISH FLOOR PLAN**

SCALE: 1/8" = 1'-0" R.E. = 1 / A201

FINISH SYMBOL LEGEND

XXX / X — FLOOR FINISH CODE / FLOOR FINISH NUMBER

XX-X — MISC. FINISH EXTENT

1 — FLOOR FINISH TRANSITION

XX-X / XX-X — GENERAL ROOM WALL FINISH / GENERAL ROOM WALL BASE

FLOOR FINISH TRANSITION LEGEND

1. **RESILIENT FLOOR TO EXISTING FINISHED FLOOR OR SUB-FLOOR** TO RECEIVE RUBBERSTRIP B.O.D. JOHNSONITE RRS-XX-C PROFILE
2. **CARPET FLOOR TO EXISTING FINISHED FLOOR** TO RECEIVE METAL EDGE GUARD. **CARPET TO EXISTING SUB-FLOOR** TO RECEIVE RUBBER STRIP B.O.D. JOHNSONITE EG-XX-G PROFILE
3. **TILE FLOOR TO EXISTING FINISHED FLOOR OR SUB-FLOOR** TO RECEIVE STAINLESS STEEL STRIP. TILE THAT TERMINATES AT DOOR JAMB SHALL RECEIVE STONE THRESHOLD TYP.
4. **RUBBER / VINYL STAIR LANDING TO EXISTING OR NEW FLOOR** TO RECEIVE RUBBER STRIP B.O.D. JOHNSONITE RRS-XX-C PROFILE.
5. **CARPET FLOOR TO RESILIENT FLOOR** TO RECEIVE STAINLESS STRIP B.O.D. SCHLUTER - DECO PROFILE

GENERAL FINISH NOTES

1. REFER TO SHEET **AXXX** FOR FINISH SCHEDULE
2. ALL FINISHES SPECIFIED HEREIN ARE B.O.D. GENERAL CONTRACTOR TO PROVIDE ALL INTERIOR FINISHES AS SPECIFIED HEREIN. ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO PROCEEDING WITH WORK.
3. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED. NO REQUEST FOR MATERIALS OR INSTALLATION EXTRAS WILL BE CONSIDERED DUE TO MEASUREMENT OR TAKEOFF ERRORS BY CONTRACTOR.
4. MAXIMUM HEIGHT DIFFERENCE BETWEEN FLOOR COVERING SURFACE SHALL BE 1/4".
5. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II (0.22 WATTS/CM SQ.) FOR MINIMUM CRITICAL RADIANT FLUX IN ACCORDANCE WITH NFPA 253.
6. VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1" FOR EVERY 10'-0" SHALL BE LEVELED BY CONTRACTOR. LEVELING SHALL BE COMPLTED WITH FLOOR READY TO RECEIVE NEW FINISHES AS SPECIFIED. CONTRACTOR SHALL VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION.
7. ALL MISCELLANEOUS GRILLES, PLATES, OR OTHER DEVICES SHALL BE PAINTED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED.
8. ALL WALL BASE AND TRIM TO RECEIVE GLOSS LEVEL 5 FINISH, UNLESS OTHERWISE NOTED.
9. ALL FINISHED GYP. BD. WALLS TO BE PAINTED GLOSS LEVEL 3 FINISH, UNLESS OTHERWISE NOTED. REFER TO FINISH PLANS FOR ACCENT PAINT LOCATIONS, TYP.
10. ALL GYP. BD. CEILINGS TO BE PAINTED GLOSS LEVEL 1 FINISH, UNLESS OTHERWISE NOTED.
11. FLOORING TRANSITIONS OCCUR AT CENTER OF DOOR OPENING, UNLESS OTHERWISE NOTED.
12. ALL TRANSITIONS BETWEEN MATERIALS SHALL BE SMOOTH.
13. REPLACE ALL ELECTRICAL SWITCH PLATES AND COVER PLATES, ETC. TO BE STAINLESS.
14. GENERAL CONTRACTOR TO PROVIDE MANUFACTURER'S RECOMMENDED FACTORY FORMULATED UNDERCOAT MATERIAL (SKIM COAT) COMPATIBLE WITH FINISH MATERIAL INDICATED ON SCHEDULE.

ALL INTERIOR FINISHES TO MEET TABLE 803.5 OF THE IBC AND TABLE 803.3 OF THE IFC:

A) ALL **EXIT ENCLOSURES** AND EXIT PASSAGEWAYS SHALL HAVE A MIN. OF **CLASS-B** FINISHES:
(FLAME SPREAD = 26-75max | SMOKE DEVELOPED = 0-450max)
B) ALL **CORRIDORS** SHALL HAVE A MINIMUM OF **CLASS-C** FINISHES:
(FLAME SPREAD = 76-200max | SMOKE DEVELOPED = 0-450max)
C) ALL **ROOMS** AND ENCLOSED SPACES SHALL HAVE A MINIMUM OF **CLASS-C** FINISHES:
(FLAME SPREAD = 76-200max | SMOKE DEVELOPED = 0-450max)

FINISH KEYNOTES

A	Add your Note Here
B	Add your Note Here

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FIRST FLOOR FINISH PLAN

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PROJECT NUMBER 21-010

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1.0 CODES AND STANDARDS:

1.1 "2018 North Carolina State Building Code" and "International Building Code", 2015.

1.2 "Minimum Design Loads for Buildings and other Structures" SEI/ASCE 7-16.

1.3 "Building Code Requirements for Structural Concrete (ACI 318-14)" American Concrete Institute 2014.

1.4 "Manual of Standard Practice", Concrete Reinforcing Steel Institute, latest edition.

1.5 "Specification for Structural Steel Buildings (AISC 360-10)" American Institute of Steel Construction, 2011 – 14th Edition

1.6 "Structural Welding Code – Steel (AWS D1.1)" and "Structural Welding Code – Reinforcing Steel (AWS D1.4)", American Welding Society.

1.7 "Specification for the Design of Cold-Formed Steel Structural Members", American Iron and Steel Institute (AISI), S100-12.

1.8 "Standard Specifications for Joist Girders (JG-10)", "Standard Specifications for Open Web Steel Joists, K-Series (k-10)", "Standard Specifications for Long Span Steel Joist, LH Series and Deep Longspan Steel Joists, DLH Series (LH/DLH-1.1)", Steel Joist Institute

1.9 "Design Manual For Floor Decks and Roof Decks", Steel Deck Institute, latest edition.

2.0 DESIGN LOADS:
Project Located in: City of Wilmington, County of New Hanover, State of North Carolina.

2.1 Gravity Loads: (Reduced where allowed)

GRAVITY LOADS		
Location	**Uniform (psf)**	**Concentrated (lbs) (Over 2.5'x2.5')**
Roof Loads:		
Dead Load	20	
Live Load	20	300

2.2 Drifting Snow Loads per Referenced Code.

Pg = 10 psf
I = 1.0
Ce = 0.9
Ct = 1.0

2.3 Risk Category = II

2.4 Wind Loads per Referenced Code.

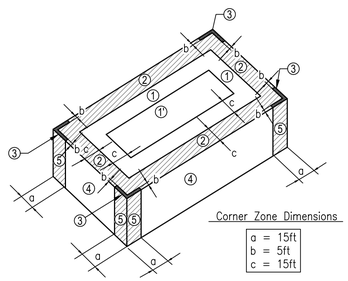
Basic Design Wind Speed:
3-second Gust PER ASCE
Vult. = 144 mph
Vasd = 111 mph
Exposure "B"

Main Wind Force Resisting System:
Building is enclosed & Internal Pressure coefficient (GCpi) = +0.18 & -0.18
Topographic Factor Kzt = 1.0
Wind Directionality Factor, Kd = 0.85
Calculated Wind Base Shear = Vx = Vy ??

Components & Cladding

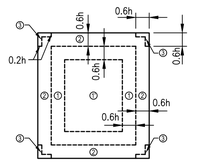
Components and Cladding Wind Pressure (psf)									
Walls	Area = 10ft²		Area = 20ft²		Area = 50ft²		Area = 100ft²		Area = 500ft²	
Zone 4	33.2	-35.9	31.7	-34.5	29.7	-32.5	28.2	-31.0	28.2	-31.0
Zone 5	33.2	-44.4	31.7	-41.4	29.7	-37.4	28.2	-34.5	28.2	-34.5
Roof	Area = 10ft²		Area = 20ft²		Area = 50ft²		Area = 100ft²		Area = 500ft²	
Zone 1	16.0	-52.8	16.0	-49.4	16.0	-44.7	16.0	-41.3	16.0	-41.3
Zone 1'	16.0	-30.4	16.0	-30.4	16.0	-30.4	16.0	-30.4	16.0	-30.4
Zone 2	16.0	-69.9	16.0	-65.1	16.0	-59.2	16.0	-54.8	16.0	-54.8
Zone 3	16.0	-94.9	16.0	-86.0	16.0	-74.2	16.0	-65.1	16.0	-65.1

Notes:
1. Areas noted are effective wind areas as per ASCE 7-16, 26.2 definitions.
2. See figures below for Zone locations.
3. Plus and minus signs signify pressures acting toward and away from surfaces, respectively.
4. Design pressures shown in table are strength design wind pressures. Allowable stress design wind pressures may be calculated by factoring the pressures by 0.6.
5. Design pressures for effective wind areas between those noted in schedule may be interpolated.
6. Tributary area = greater of LxW or LxL/3.
7. Deflections may be calculated based on 42% of these loads.



Corner Zone Dimensions

a = 15ft
b = 5ft
c = 15ft



COMPONENT & CLADDING ROOF PRESSURES

Flat Roof

h = 25ft "corner zone"

2.5 Seismic Loads per Referenced Code.

Risk Category = II
Site class = "D" (Per Geotechnical Report)
Spectral Response Coefficients:
SS = 0.154g
S1 = 0.068g
SDS = 0.164g
SD1 = 0.108g
Cs = 0.055

Seismic Design Category = "B"
Seismic Importance Factor = 1.0
Basic Seismic – Force – Resisting System
Building Frame System – Steel Systems Not Specifically Detailed for Seismic Resistance

RX=RY=3.0, ΩX=ΩY=3.0, CDX=CDY=3.0
Design Base Shear Vx = Vy = ??
Building Height Limit = NL
Analysis Procedure – per Referenced Code.
Equivalent Lateral Force Procedure

2.6 Guardrail designed per Referenced Code, Chapter 16 IBC

Guardrail:
Uniform load = 50 plf, any direction
Concentrated load = 200 lbs, any direction
Intermediate Rail: (all those except handrail)

2.7 Flood Loads:
Project is not located in a flood zone.

3.0 FOUNDATIONS:

3.1 Foundation design is based on geotechnical report #22:32430 by ECS Southeast, LLP Wilmington, NC dated November 14, 2022. This report is available in the project manual. The recommendations contained in this report are herein made part of the requirements of these contract documents.

3.2 Footings shall bear on strata capable of sustaining a minimum bearing pressure of 3000 psf.

3.3 Top of footing (T/FTG) elevations are shown on the drawings or are to be determined by the Contractor in the field in accordance with the guidelines set forth in the drawings.

3.4 Bottom of exterior footings, grade beams and walls shall bear at a minimum depth of 1'-0" below final grade for frost protection.

3.5 Testing and Inspection:
a. All areas to have slabs on grade shall be proof rolled in accordance with and under observation of the Geotechnical Engineer and approved prior to preparation for concrete placement.

b. All foundation bearing strata shall be inspected and approved by the Geotechnical Engineer prior to any concrete placement.

c. Geotechnical Engineer shall be the sole judge as to suitability of all foundation and/or slab bearing strata.

d. Footing bearing elevations shall be adjusted in the field as required to meet the design bearing pressures by additional excavation or compaction and/or backfilling or by other means acceptable to the Geotechnical Engineer.

3.6 Undercutting to remove existing fill beneath footings and slab shall be performed at the direction of the Geotechnical Engineer.

3.7 Engineered Fill: All fill material shall be selected in accordance with the Geotechnical Report Material shall be a clean, low plastic soil with a plasticity index less than 30 (less than 15 is preferred), liquid limit less than 50, and unit weight of 120 pcf (+ 5 pcf)

3.8 Compaction: All fill shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to a minimum of 96 percent Standard Proctor (ASTM D-698) except that the top 12 inches shall be compacted to a minimum of 98 percent Standard Proctor. Moisture shall be controlled to within 3 percent above or below optimum content.

3.9 Remove all topsoil and organic materials. The stripping should extend at least 10' beyond the proposed construction limits.

3.10 Contractor shall review all construction considerations as outlined in the Geotechnical report and bid accordingly.

4.0 CONCRETE:

4.1 Concrete Strength:
All concrete shall be in accordance with the American Concrete Institute (ACI) 301 and 318.

4.2 Concrete shall have a 28 day compressive strength and density as follows:
a. Footings, Grade Beams, and Interior Slab-on-grade.....3,000psi, Density = ±145pcf
b. Exterior Slab on Grade.....4,000psi, Density = ±145pcf

4.3 Concrete Mix Designs:
a. Submittals: Submit written reports of each proposed concrete mix not less than 15 days prior to the start of work.
b. Mix designs, including water, cement ratios and slumps, shall be prepared in accordance with ACI 301-05, Section 4, Cement shall conform to ASTM C 150 Type 1 or at contractor's option, ASTM C 595 Type IP where fly ash is permitted. Normal weight aggregate shall conform to ASTM C 33 and light weight aggregate shall conform to ASTM C 330. No admixtures containing calcium chloride shall be permitted in any concrete.
c. Aggregate size shall be #67 stone for supported slabs or other formed concrete elements; #57 stone for slabs on grade and footings or other concrete elements formed from and poured against earth; #89 stone for masonry grout.
d. Water reducing admixture shall be used in all concrete.
e. Air entraining admixture in accordance with ACI 301 shall be used in all concrete exposed freezing and thawing during construction or service conditions.
f. Concrete subjected to freezing/thawing shall have a maximum water/cement ratio of 0.45 and shall contain the amount of air entraining agent specified in ACI 301-05 Section 4.

4.4 Curing:
See specifications for curing method options and apply within two (2) hours after completion of finishing to all concrete flatwork and walls, U.N.O., other than footings and grade beams.

4.5 Use a non-corrosive, non-chloride accelerating admixture in concrete exposed to temperatures below 40 degrees. Uniformly heat the water and aggregates to a temperature of not less than 50 degrees. Place and cure concrete in accordance with ACI 306.

4.6 When hot weather conditions exist, place and cure concrete in accordance with ACI 301. Cool ingredients before mixing to maintain concrete temp. at time of placement below 90 degrees.

4.7 Reinforcing in all abutting concrete, including footings shall be continuous through or around all corners or intersections. Dowels or splices shall be equal in size and spacing to the reinforcing in the abutting members.

4.8 Refer to architectural drawings for door and window openings, drips, reglets, washes, masonry anchors, brick ledge elevations, slab depressions and miscellaneous embedded plates, bolts, anchors, angles, etc.

4.9 Refer to plumbing, mechanical and electrical drawings for underfloor, perimeter and other drains and for sleeves, outlet boxes, conduit, anchors, etc. The various trades are responsible for their items.

4.10 Base plates, anchor rods, support angles and other steel exposed to earth or granular fill shall be covered with a minimum of 3" of concrete.

4.11 Fill slabs, not shown on the structural drawings, shall be reinforced with a minimum of WWM W2.0xW2.0x6x6 of synthetic macro-fibers – see plan notes, unless noted otherwise on other drawings.

4.12 Finish surfaces to the following tolerances, according to ASTM E 1155, for a randomly trafficked floor surface:
a. Specified overall values of flatness, F(F) 25; and of levelness, F(L) 20; with minimum local values equal to ⅔ of the overall flatness and levelness values.
b. The composite F(F) and F(L) numbers shall be measured and reported within 72 hours after completion of slab concrete finishing operations and before removal of any supporting shores.

4.13 Non-shrink grout shall be pre-mixed, non-corrosive, non-metallic, non-staining containing silica sands, Portland cement, shrinkage compensating and water reducing agents. Product shall only require the addition of water. Minimum compressive strength shall be 2500 psi after one day and 7000 psi after 28 days. Grout shall be free of gas producing or air releasing and oxidizing agents and contain no corrosive iron, aluminum or gypsum.

4.14 Provide concrete grout – not mortar – for reinforced masonry lintel and bond beams where indicated on drawing or as scheduled.

4.15 Tolerance for anchor rods and other embedded items shall be per the AISC Code of Standard Practice Section 7.5.

4.16 Unless otherwise shown in the architectural drawings, provide 3/4-inch chamfers at all column, wall, slab or beam edges that are exposed to view in the finished structure.

4.17 Concrete cover for cast-in-place concrete reinforcement:
Concrete cast against & permanently exposed to earth:.....3 Inches
Concrete exposed to earth or weather:
No. 6 through No. 18 Bars:.....2 Inches
No. 5 Bar and smaller:.....1½" Inches
Concrete not exposed to weather or in contact with ground:
Slabs, Walls, Joists:
No. 11 Bar and smaller:.....¾" Inches
Beams, Columns:
Primary Reinforcement, Ties, Stirrups:.....1½" Inches

5.0 REINFORCING STEEL:

5.1 Reinforcing shall be domestic new billet steel conforming to ASTM A615, Grade 60 or 60S including stirrups and ties, except that reinforcing which is required to be welded shall conform to ASTM A706.

5.2 Field bending of concrete reinforcing steel is not permitted.

5.3 Welded wire mat and fabric shall conform to ASTM A184 and A185 respectively and shall be provided in flat sheets. Welded wire mat/fabric shall be lapped 0'-6" at all splices.

5.4 Bar Splices:

	f'c = 3,000psi		f'c = 4,000psi		f'c = 5,000psi	
Bar Size	**Ld (in)**	**Class "B" Lap Splice (in)**	**Ld (in)**	**Class "B" Lap Splice (in)**	**Ld (in)**	**Class "B" Lap Splice (in)**
#3	17	22	15	19	13	17
#4	22	29	19	25	17	23
#5	28	36	24	31	22	28
#6	33	43	29	37	26	34
#7	48	63	42	54	38	49
#8	55	72	48	62	43	56

1. Values are based on normal weight concrete.
2. Ld = minimum embed of rebar
3. Class "B" lap splice refers to minimum distance bars must be lapped for a full tension splice.

6.0 COLD-FORMED STEEL FRAMING:

6.1 All members shall be designed in accordance with the American Iron and Steel Institute (AISI) "Specifications for the Design of Cold-formed Steel Structural Members", Latest Edition.

6.2 All framing members shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446, with a minimum yield strength of 33 ksi for joists and studs and 33 ksi for runners.

6.3 All members shown are standard designations of Steel Stud Manufacturers Association (SSMA)

6.4 Design of members indicated in structural drawings is based on minimum properties of products produced per SSMA standards of members specified. No substitution of materials is acceptable for use without prior approval of the structural engineer. Substitutions shall meet or exceed all properties produced per SSMA standards of members specified.

6.5 All shop drawing submittals shall show layout, spacing, sizes, thicknesses and types of cold-formed metal framing, fabrication, and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details and attachment to adjoining work.

6.6 Shop drawings, design calculations and other structural data shall be prepared and sealed by a qualified engineer. The Structural Engineer shall be legally qualified to practice in the jurisdiction where the project is located and shall be experienced in providing engineering services of the kind indicated.

6.7 All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit tight against abutting members. All load bearing stud/walls shall be factory assembled into panels with studs bearing squarely and fully in top and bottom tracks.

6.8 Fastening components shall be by self-drilling screws or by welding as defined below UNO on the drawings.

6.9 Screwed connections:
a. Screws shall be type S-12 or type S-4 for all framing members per manufacturer's recommendations.
b. A minimum of three (3) exposed threads shall penetrate through at joined materials.
c. Corrosion-resistant cadmium-plated screws shall be used for screws attaching metal lath, masonry ties, and other exterior materials.

6.10 Welded connections:
a. Gas metal arc welding (GMAW) shall be used for 20 ga. Or lighter members. AWSE-705-3, E-705-E, E-705-6 wire electrodes .030"-.035" diameter shall be used with carbon dioxide, argon-oxygen or argon-carbon dioxide shielding. Welding equipment 60-100 amperes at 25 volts using 220-volt 3-phase electric service.
b. Shielded metal arc welding (SMAW) shall be used for 18 ga' and heavier members. AWS E-6012, E-6013, or E-7014 electrodes of 3/32" or 1/8" diameter shall be used. Welding equipment heat setting shall be varied dependent on material thickness.
c. All welds shall be touched up with zinc rich paint, or paint similar to that used by the framing member manufacturer.

6.11 Alignment of studs (plumbness) and walls (straightness) shall be within 1/960 of their respective heights and lengths.

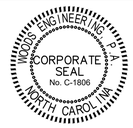
6.12 Studs shall be plumbed, aligned, and securely attached to top and bottom runners. Splices in studs are not permitted.

6.13 Where manufacturer's recommendations for erection, attachment, assembly, bracing, alignment, or other installation, or assembly requirements are more stringent than indicated in these drawings, the manufacturer's recommendations shall apply.

STEEL THICKNESS						
Gauge:	**Mils**	**Design Thickness**		**Minimum Thickness**		**Yield Strength**
		Inches	**mm**	**Inches**	**mm**	**ksi**
20	33	0.0346	0.879	0.0329	0.836	33
18	43	0.0451	1.146	0.0428	1.087	33
16	54	0.0566	1.438	0.0538	1.367	50
14	68	0.0713	1.811	0.0677	1.720	50
12	97	0.1017	2.583	0.0966	2.454	50

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NOT FOR CONSTRUCTION

NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

100% DESIGN DEVELOPMENT

GENERAL NOTES

ISSUE DATE 12/20/2022
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PROJECT NUMBER 22-3543

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7.0 STEEL JOISTS:

7.1 All steel joists shall be designed, fabricated, and erected in accordance with the SJI Specifications.

7.2 Joist ends shall be fixed and bridging shall be placed prior to application of any loads.

7.3 End Support:
- a. Minimum bearing requirements shall be in accordance with the SJI Specification. Extended joist ends for bearing on masonry shall be provided by the joist manufacturer where required to accommodate bearing conditions shown on the drawings.
- b. K Series joists shall be welded to supports with 1/8" fillet welds, one each side, 2" long.
- c. Bolt joists as indicated below to structural steel supports at column centerlines or where joists do not space on centerlines, bolt connections for each joist adjacent to centerline. K Series: 2 @ 1/2-inch diameter bolts (minimum)

7.4 Joist bridging:
- a. Shall be placed in accordance with the SJI Specification U.N.O. and shall be horizontal rods or angles at top & bottom chords for all K Series joists.
- b. Bridging that terminates at or is interrupted by structural steel members, shall be welded or bolted thereto. Provide diagonal ("X") bridging for ends of bridging lines terminating at walls/beams.

7.5 Holes in joist chords are not permitted, except at bearing and bolted connections.

7.6 All joists (40) forty feet and longer shall require a row of bolted bridging to be in place before slackening of hoisting lines.

8.0 STRUCTURAL STEEL:

8.1 All structural steel shall be of the grades indicated below, unless noted otherwise on plans or details.
Rolled shapes ASTM A992 Gr. 50
Steel pipe ASTM A53, Type E or S, Grade B, Fy-35ksi
Structural tubing ASTM A500, Grade B, Fy-46ksi
Plates and bars ASTM A36 U.N.O.
Anchor rods ASTM F1554, Grade 36 U.N.O.
Miscellaneous ASTM A36 U.N.O.

8.2 All structural steel shall be detailed, fabricated and erected in accordance with the AISC Code of Standard Practice. The fabricator is responsible for the design of connections not shown on the structural drawings. For the purpose of the connection design, the fabricator shall retain a professional engineer registered in the state where the project is located. The engineer shall seal and sign each shop drawing containing connection design. A note shall accompany the drawings stating that the seal is for "Connection Design Only".

8.3 Connection Design:
- a. Generally, connections shown on the drawings are schematic and are intended to show the relationship of the members.
- b. Connections shall be designed for one-half (1/2) the allowable uniform load on the member, as defined in Part 3, "Allowable Loads on Beams" tables in the AISC "Manual of Steel Construction", 14th Edition, See plan notes for design methodology and minimum reactions.

8.4 Bolted connections:
- a. Bearing type connections shall be snug tight with A325N or A490N bolts, U.N.O. Oversized and long-slotted holes are NOT permitted U.N.O. At single shear plate connections, provide bearing type fasteners with horizontal short slotted holes. All bolts shall be snug tight. DO NOT over torque bolts.
- b. Protruding bolt heads, shafts or nuts shall not extend nor prohibit the application of architectural finishes or placement of steel deck at its correct location and elevation.
- c. Connection designer is responsible for verifying the axial capacity after a section is reduced for bolt holes. Member size may be increased or plates added to maintain required capacity.
- d. Bolted connections shall be assembled and inspected in accordance with RCSC-2009 (Specification for Structural Joints Using High-Strength Bolts).

8.5 Welded connections:
- a. All welding shall be in accordance with the "Structural Welding Code - Steel" (AWS D1.1) of the American Welding Society, Latest Edition.
- b. Electrodes for welding shall comply with the requirements of Table 4.1.1 of the AWS code.
- c. At Moment Connections and Braced Frames Provide filler Metal that has a minimum CVN Toughness of 20 ft-lbs at minus 20 degrees F, As determined by AWS classification or Manufacturer Certification.
- d. Proof of welder certification shall be available at the job site during times of inspection.

8.6 Minimum plate thickness shall be 3/8" U.N.O.; minimum bolt diameter shall be 3/4-inch U.N.O.; minimum shop weld shall be 3/16" and minimum field weld shall be 1/4-inch U.N.O.

8.7 All re-entrant corners (such as copes and blocks) shall be cut and shaped notch free with a radius of at least 1/2-inch.

9.0 STEEL DECK:

9.1 Steel roof deck shall be galvanized, Type B, 1 1/2" deep, 20 gauge, U.N.O.

9.2 For steel roof deck spans, mechanically fasten side laps at mid-span using "Buildex", self-tapping TEKS No. 10 or larger machine screws or as noted on plan.
Provide additional sidelap fasteners where noted on plan.
Fasten roof deck to supporting members as noted on plan.

9.3 Do not hang pipes or ducts from steel roof deck. Fasten roof deck to supporting members as noted on plan.

10.0 CONSTRUCTION AND SAFETY:

10.1 Woods Engineering P.A.'s responsibility is limited to the details and information shown on these drawings. It is the responsibility of the Contractor to provide adequate safety measures required by local codes as well as OSHA Standards for the Construction Industry.
This should include, but not be limited to the following:
Shoring to protect new as well as existing structures.
Necessary Scaffolding.
Material Handling Equipment.
Trench Boxing.

11.0 MATERIAL INSPECTIONS:

11.1 Special Inspections are not required for this project; however, Material Inspection are required by Chapter 17, 2018 NCSBC, See S104 for material inspection schedules.

12.0 SHOP DRAWING SUBMITTAL:

12.1 See Project Manual

12.2 Contractor shall submit Electronic copies (PDF format) of each shop drawing for review. Shop drawings shall be reviewed by the Contractor prior to submission to the Engineer. The Contractor shall allow 10 working days for shop drawing approval.

13.0 SUPPLEMENTAL FRAMING:

13.1 Provide supplemental framing for the support of pipes, conduits, light fixtures, etc. Supplemental framing shall consist of slotted steel channels, steel angles, hanger rods, and appropriate hardware. Finish for framing and hardware shall be galvanized or rust-inhibiting acrylic enamel paint.

13.2 Slotted Steel Channels: For exterior use, hot-dipped galvanized finish. For interior use, manufacturer's standard finish.

13.3 Steel Angles: for exterior use, hot-dipped galvanized. For interior use, prime with rust-inhibitive primer and finish paint two coats of alkyd enamel.

13.4 Hanger Rods: Galvanized carbon steel threaded rods.

13.5 Fastening Hardware: Finish shall match connected parts.

ABBREVIATIONS

@	AT
&	AND
AB	ANCHOR BOLTS
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ARCH	ARCHITECTS - ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
B, BOTT	BOTTOM
BCX	BOTTOM CHORD EXTENSION
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BM	BEAM
BOS	BOTTOM OF STEEL
BRG	BEARING
BTWN	BETWEEN
CFS	COLD FORMED STEEL
CJ	CONTRACTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CSJ	COMPOSITE STEEL JOIST
CTRD	CENTERED
DBA	DEFORMED BAR ANCHOR
DD	DELEGATED DESIGN
DEFL	DEFLECTION
DEPR	DEPRESSION - DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
ø	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
EA	EACH
ELEV	ELEVATION
EMBED	EMBEDDED - EMBEDMENT
ENG	ENGINEER
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
EF	EACH FACE
EJ	EXPANSION JOINT
EOD	EDGE OF DECK
EOM	EDGE OF MASONRY
EOS	EDGE OF SLAB
EOW	EDGE OF WALL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GT	GIRDER TRUSS
HD	HEADED
HI	HIGH
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
IFM	INSIDE FACE OF MASONRY
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
K	KIP-S
KB	KICKER BRACE
KSI	KIPS PER SQUARE INCH
(L)	LONG SIDE REINFORCEMENT
LB	LONG BAR
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
LOC	LOCATION
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOW	MIDDLE OF WALL
MP	MASONRY PILASTER
d	NAILS - PENNY
No	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OFB	OUTSIDE FACE OF BRICK
OFM	OUTSIDE FACE OF MASONRY
OFS	OUTSIDE FACE OF STUD
OPNG	OPENING
OPP	OPPOSITE HAND
PEBS	PRE-ENGINEERED BUILDING SUPPLIER
PED	PEDESTAL
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PLF	POUNDS PER LINEAR FOOT
PT	PRESSURE TREATED
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
(S)	SHORT SIDE REINFORCEMENT
SB	SHORT BAR
SCHD	SCHEDULE
SF	STEP FOOTING
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SPF	SPRUCE PINE FUR
SQ	SQUARE
STD	STANDARD
STIFF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STR	STRUCTURAL
SW	SHEAR WALL
SYP	SOUTHERN YELLOW PINE
T	TOP
TCX	TOP CHORD EXTENSION
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	VEHICLE BARRIER
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WITH
WWF	WELDED WIRE FABRIC

DO NOT SCALE DIGITAL OR HARD COPIES OF THESE DRAWINGS:

Unless Specifically Noted - Drawings, Plans, Sections, Details, Etc. are a graphic representation of the framing conditions and/or requirements.
Rebar lengths, bends & etc. SHALL NOT be determined by scaling any drawings included in this set of documents. Lengths & sizes shall be determined by the schedules only, or specifically requested if not numerically shown. Submit a written request to Woods Engineering, PA if further clarification is needed.

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 049179 ENGINEER DAVID R. WOODS

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

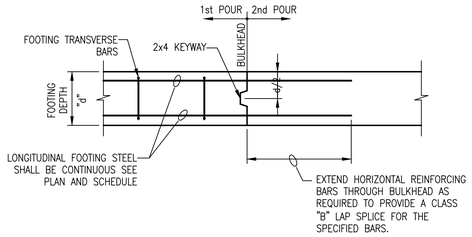
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GENERAL NOTES

ISSUE DATE 12/20/2022
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 22-3543

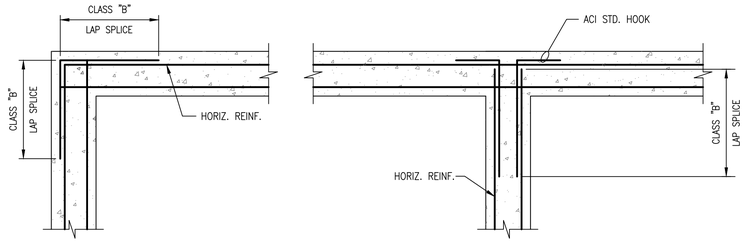
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TYPICAL FOOTING CONSTRUCTION JOINT SECTION

SCALE: 3/4" = 1'-0"

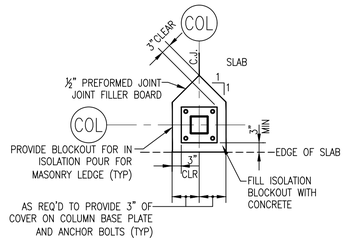


⓪ FOOTING CORNERS

⓪ FOOTING INTERSECTION

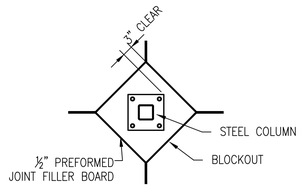
TYPICAL CORNER REINFORCING FOR CONCRETE FOOTINGS

SCALE: 3/4" = 1'-0"



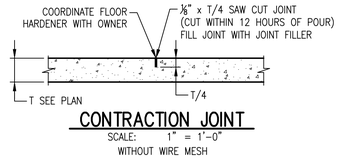
TYPICAL ISOLATION JOINT AT SLAB EDGE

NOT TO SCALE



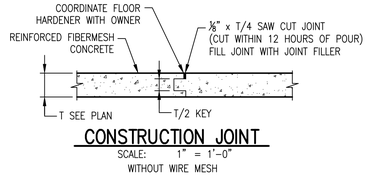
ISOLATION JOINT DETAIL

NOT TO SCALE



CONTRACTION JOINT

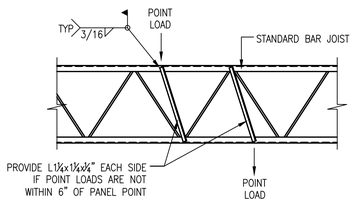
SCALE: 1" = 1'-0"
WITHOUT WIRE MESH



CONSTRUCTION JOINT

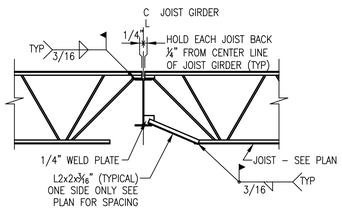
SCALE: 1" = 1'-0"
WITHOUT WIRE MESH

NOTE:
COORDINATE CONTROL JOINT LOCATION W/ARCHITECTURAL MAXIMUM SPACING OF 25' OR 3 TIMES THE WALL HT.



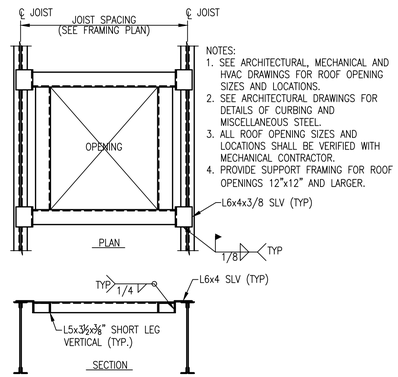
DETAIL OF TYPICAL JOIST REINFORCEMENT

NOT TO SCALE



SECTION "A"

SCALE: 1/2" = 1'-0"
GIRDER BOTTOM FLANGE (BRACE TYP.)

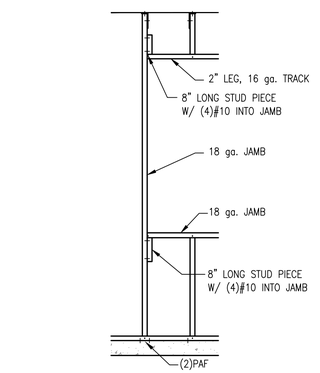


NOTES:
1. SEE ARCHITECTURAL, MECHANICAL AND HVAC DRAWINGS FOR ROOF OPENING SIZES AND LOCATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CURBING AND MISCELLANEOUS STEEL.
3. ALL ROOF OPENING SIZES AND LOCATIONS SHALL BE VERIFIED WITH MECHANICAL CONTRACTOR.
4. PROVIDE SUPPORT FRAMING FOR ROOF OPENINGS 12"x12" AND LARGER.

DETAIL OF TYPICAL ROOF OPENING

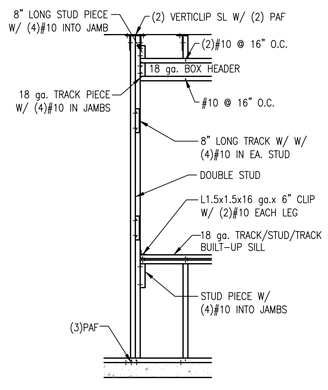
NOT TO SCALE

AT CONTRACTOR'S OPTION:
USE QUICKFRAMES
WWW.QUICKFRAMES.US



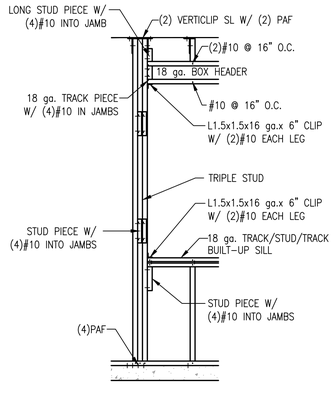
TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 3'-4"

SCALE: 1/2" = 1'-0"



TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 6'-4"

SCALE: 1/2" = 1'-0"



TYPICAL EXTERIOR WALL FRAMING AT WINDOW OPENING UP TO 8'-8"

SCALE: 1/2" = 1'-0"

TYPICAL LIGHT GAUGE CONSTRUCTION DETAILS FOR NON-LOAD BEARING EXTERIOR WALLS

NOTE: THESE DETAILS ARE GENERIC AND ARE FOR GENERAL INFORMATION AND BUDGET PRICING. ACTUAL DESIGN BY LIGHT GAUGE SUPPLIER AND ENGINEER.

GENERAL NOTE:
DETAILS SHOWN ON THIS SHEET ARE GENERIC IN NATURE AND MAY NOT PORTRAY EXACT CONDITIONS. THESE DETAILS ARE INTENDED TO PROVIDE GENERAL GUIDELINES FOR TYPICAL CONSTRUCTION CONDITIONS.

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

100% DESIGN DEVELOPMENT

TYPICAL DETAILS

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SCHEDULE FOR MATERIAL INSPECTIONS

BUILDING COMPONENTS OR MATERIAL	MATERIAL SUBMITTAL	INSPECTION / MONITORING	INSPECTION FREQUENCY	INSPECTOR QUALIFICATIONS	TEST REQUIREMENTS	TEST FREQUENCY	INSPECTION AGENCY
SOILS	1. REVIEW NOVA, GEOTECHNICAL REPORT #10705-2021050 – ALLOWABLE SOIL BEARING = 3000psf 2. FILL MATERIAL SPECIFICATIONS. 3. VAPOR BARRIER	1.-2. INSPECT SOILS PER ATTACHED 2015 IBC, TABLE 1705.6 FOR REQUIRED VERIFICATION AND INSPECTION. 3. INSPECT VAPOR BARRIER INSTALLATION. SEE PROJECT & MANUFACTURER SPECS.	ALL INSPECTIONS ARE PERIODIC EXCEPT FILL PLACEMENT AND COMPACTION WHICH IS CONTINUOUS.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. PROVIDE VISUAL AND DCP TESTS PER ASTM STP-399 2. SUBGRADE DENSITY VERIFICATION	1. EACH ISOLATED FOOTING AND AT 20' INTERVALS FOR CONTINUOUS FOOTINGS. 2. AS REQUIRED TO VERIFY ENTIRE BUILDING PAD.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
CONCRETE	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT MATERIAL CERTIFICATION 3. SUBMIT REBAR SHOP DRAWINGS.	INSPECT CONCRETE CONSTRUCTION PER ATTACHED 2015 IBC, TABLE 1705.3	AS OUTLINED PER TASK IN TABLE 1705.3	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. TEST CONCRETE FOR COMPRESSIVE STRENGTH, SLUMP, AIR CONTENT, TEMPERATURE AND BATCH TO PLACEMENT TIME.	1. SAMPLES FOR STRENGTH TESTS FOR EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 YD^3 OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000FT^2 OF SURFACE AREA FOR SLABS OR WALLS.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
STEEL	1. SUBMIT ANCHOR BOLT SETTING PLAN. 2. SUBMIT STEEL SHOP DRAWINGS. 3. SUBMIT MATERIAL CERTIFICATES. 4. FABRICATOR CERTIFICATE OF COMPLIANCE WITH 2015 IBC, 1705.2.	INSPECT STEEL PER ATTACHED TABLE BELOW	AS OUTLINED PER TASK IN TABLE BELOW	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED STEEL INSPECTOR. 2. MOMENT CONNECTIONS FIELD WELDED. 3. ALL FIELD BOLTING SHALL BE SNUG TIGHT.	INSPECT ALL FIELD CONNECTIONS. CONTINUOUS INSPECTION OF ALL MOMENT CONNECTIONS REQUIRED.	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
STEEL JOISTS	1. SUBMIT STEEL SHOP DRAWINGS. 2. SUBMIT MATERIAL CERTIFICATES. 3. FABRICATOR CERTIFICATE OF COMPLIANCE WITH 2015 IBC, 1705.2.	INSPECT STEEL JOIST PER ATTACHED TABLE 1705.2.3	AS OUTLINED PER TASK IN TABLE 1705.2.3	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED STEEL INSPECTOR. 2. MOMENT CONNECTIONS FIELD WELDED. 3. ALL FIELD BOLTING SHALL BE SNUG TIGHT.	1. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.
COLD FORMED STEEL	1. SUBMIT SEALED ROOF TRUSS AND WALL FRAMING SHOP DRAWINGS. 2. SUBMIT PRODUCT DATA SHEETS. 3. SUBMIT P.E. SEALED CALCULATIONS.	1. FABRICATOR SHALL BE SUBMIT SHOP CERTIFICATION IF ROOF TRUSSES ARE SHOP FABRICATED. 2. INSPECT ALL FIELD FABRICATED TRUSSES VS. APPROVED SHOP DRAWINGS. 3. INSPECT WALL FRAMING. 4. INSPECT MECHANICAL CONNECTIONS FROM TRUSS TO STEEL TUBE, STEEL TUBE TO WALL FRAMING AND ANCHORAGE OF WALL FRAMING TO CONCRETE.	1 & 2 CONTINUOUS 3. PERIODIC 4. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY BUILDING OFFICIAL.	1. VISUAL INSPECTION BY A QUALIFIED INSPECTOR.	1. PERIODIC	1. QUALIFIED INSPECTION AGENCY A) INSPECTION AGENCY TO BE APPROVED BY BUILDING OFFICIAL.

REQUIRED VERIFICATION & INSPECTION OF SOILS

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	–
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY,	–	X

NOTE: SEE IBC-2015, TABLE 1705.6, CHAPTER 17

REQUIRED VERIFICATION & INSPECTION OF CONCRETE CONSTRUCTION FREQUENCY CHART

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	–	X
2. REINFORCING BAR WELDING: a. VERIFY WEDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; and c. INSPECT ALL OTHER WELDS.	– X	X X
3. INSPECTION OF ANCHORS CAST IN CONCRETE	–	X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLUDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	X	X
5. VERIFY USE OF REQUIRED DESIGN MIX.	–	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS	X X	– –
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	–	X
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	–	X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X

NOTE: SEE 2012 NCSBC, SECTION 1704.4 FOR REFERENCE STANDARDS.

REQUIRED VERIFICATION & INSPECTION OF STEEL CONSTRUCTION

VERIFICATION & INSPECTION TASK	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
2. INSPECTION OF HIGH-STRENGTH BOLTING:		
a. SNUG-TIGHT JOINTS.	–	X
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	–	X
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	–
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	–	X
b. FOR OTHER STEEL, INDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
c. MANUFACTURER'S CERTIFIED TEST REPORTS.	–	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	–	X
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	–	X
5. INSPECTION OF WELDING:		
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	–
2) MULTIPASS FILLET WELDS.	X	–
3) SINGLE-PASS FILLET WELDS > 5/16"	X	–
4) PLUG AND SLOT WELDS.	X	–
5) SINGLE-PASS FILLET WELDS ≤ 5/16"	–	X
6) FLOOR AND ROOF DECK WELDS.	–	X
b. REINFORCING STEEL:		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	–	X
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	–
3) SHEAR REINFORCEMENT.	X	–
4) OTHER REINFORCING STEEL	–	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:		
a. DETAILS SUCH AS BRACING AND STIFFENING.	–	X
b. MEMBER LOCATIONS.	–	X
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	–	X

(a) OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM THESE TASKS FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT

(b) SEE AISC 360 QUALITY ASSURANCE INSPECTION REQUIREMENTS

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

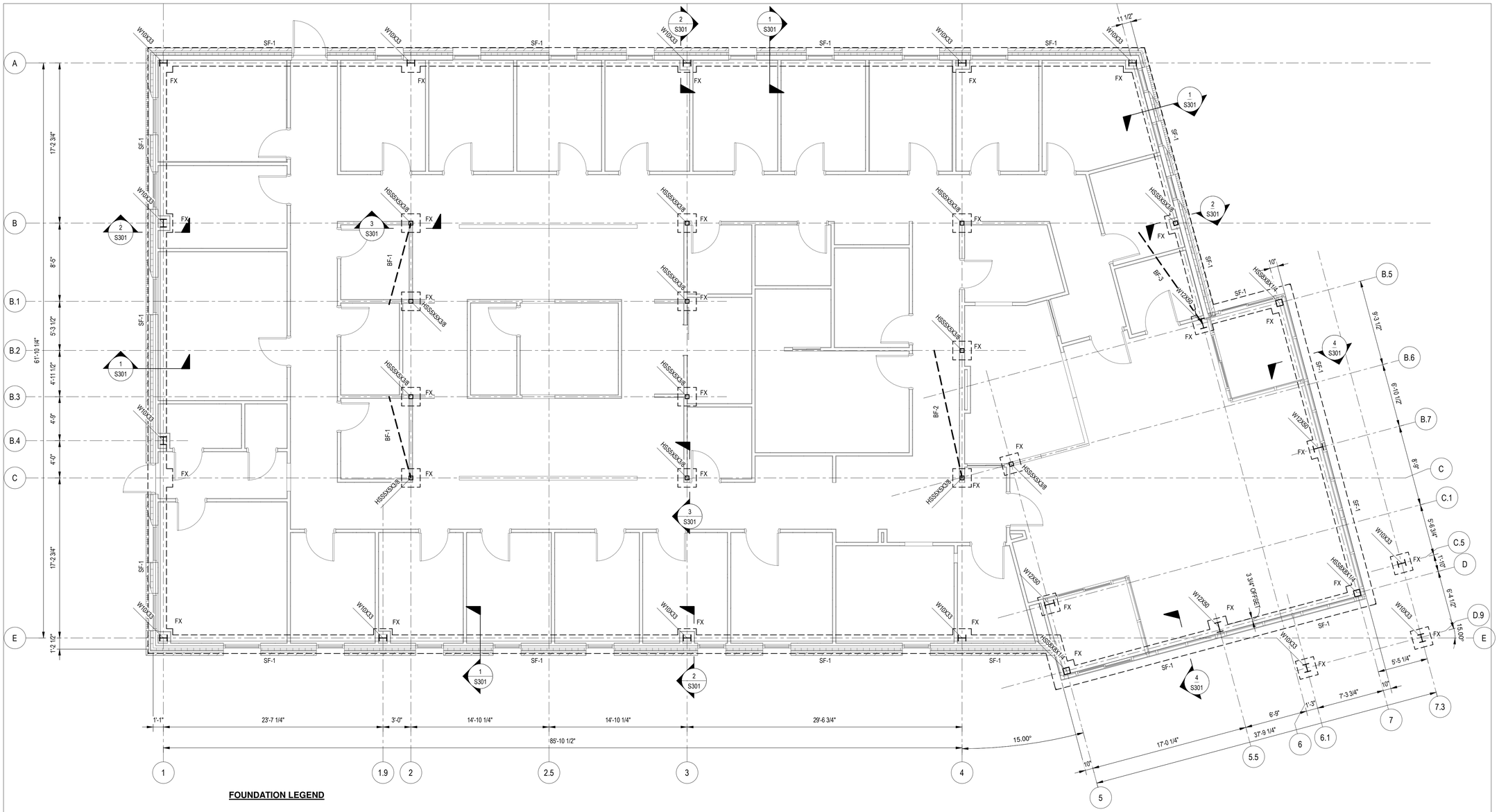
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MATERIAL INSPECTIONS

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FOUNDATION LEGEND

- FX — SPREAD FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- LF-X — LATERAL FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- SF-X — STRIP FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
- CJ — INDICATES CONCRETE SLAB CONTRACTION JOINTS, SEE S1.0 SHEETS FOR TYPICAL DETAILS. SEE PLAN FOR LOCATIONS. MAXIMUM SPACING = 12' IN EACH DIRECTION
- W#X BP-x / HSS#X BP-x — STEEL COLUMN - SEE PLAN FOR SIZE AND LOCATION SEE S3.0 SHEETS FOR BASE PLATE DETAILS (BP-x)
- 0 — GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.
- BRACE #X — INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5.0 SHEETS

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

SPREAD FOOTING (Fx) SCHEDULE

MARK	WIDTH x LENGTH x THICKNESS	REINFORCEMENT		COMMENTS
		TOP BARS EACH WAY (U.N.O.)	BOTTOM BARS EACH WAY (U.N.O.)	
FX				

STRIP FOOTING (SF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	

LATERAL FOOTING (LF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	

FOUNDATION PLAN NOTES

1. SEE S1.0 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
2. DATUM ELEVATION = TOP OF SLAB ELEVATION = ASSUMED 0'-0" = ?'-?" M.S.L. OTHER ELEVATIONS ARE NOTED AS (+ OR -) FROM DATUM ELEVATION.
3. TOP OF FOOTINGS SHALL BE (-1'-4") FROM DATUM ELEVATION, U.N.O.
4. INTERIOR TROWEL FINISHED SLAB-ON-GRADE (THICKNESS SPECIFIED ON PLAN) 3000 psi CONCRETE REINFORCED WITH WWM6x6xW2.0xW2.0 or 3.0lbs/yd.^{3} OF SYNTHETIC MACRO-FIBERS (TUF-STRAND SF BY EUCLID, FIBER MAC SERIES BY BASF, OR FORTA-FERRO BY FORTA CORP, OR APPROVED EQUAL) ON 15 mil VAPOR RETARDER, ON 6" CLEAN SANDS WITH LESS THAN 20% FINES PASSING #100 SIEVE (SP,SW,SP-SM) OR APPROVED EQUAL ON WELL COMPACTED SUB GRADE. EXTERIOR AND BROOM FINISHED SLASBS ON GRADE (THICKNESS SPECIFIED ON PLAN) 4,000 psi CONCRETE REINFORCED WITH WWF6X6XW2.9XW2.9 FLAT SHEETS ON 10 MIL VAPOR BARRIER ON 6" CLEAN SANDS ON COMPACTED SUB-GRADE.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
6. RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER:
   a. DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
   b. IF THE UTILITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
   c. IF THE UTILITY LINE IS ≥ 2'-0" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
7. DIMENSIONS ARE FROM EDGE OF SLAB (E.O.S.) AND OUTSIDE FACE OF STUD (O.F.S.) / CURTAINWALL (O.F.CW.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
8. SEE S5.0 SHEETS FOR STEEL BRACED FRAME INFORMATION AND REQUIREMENTS.
9. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

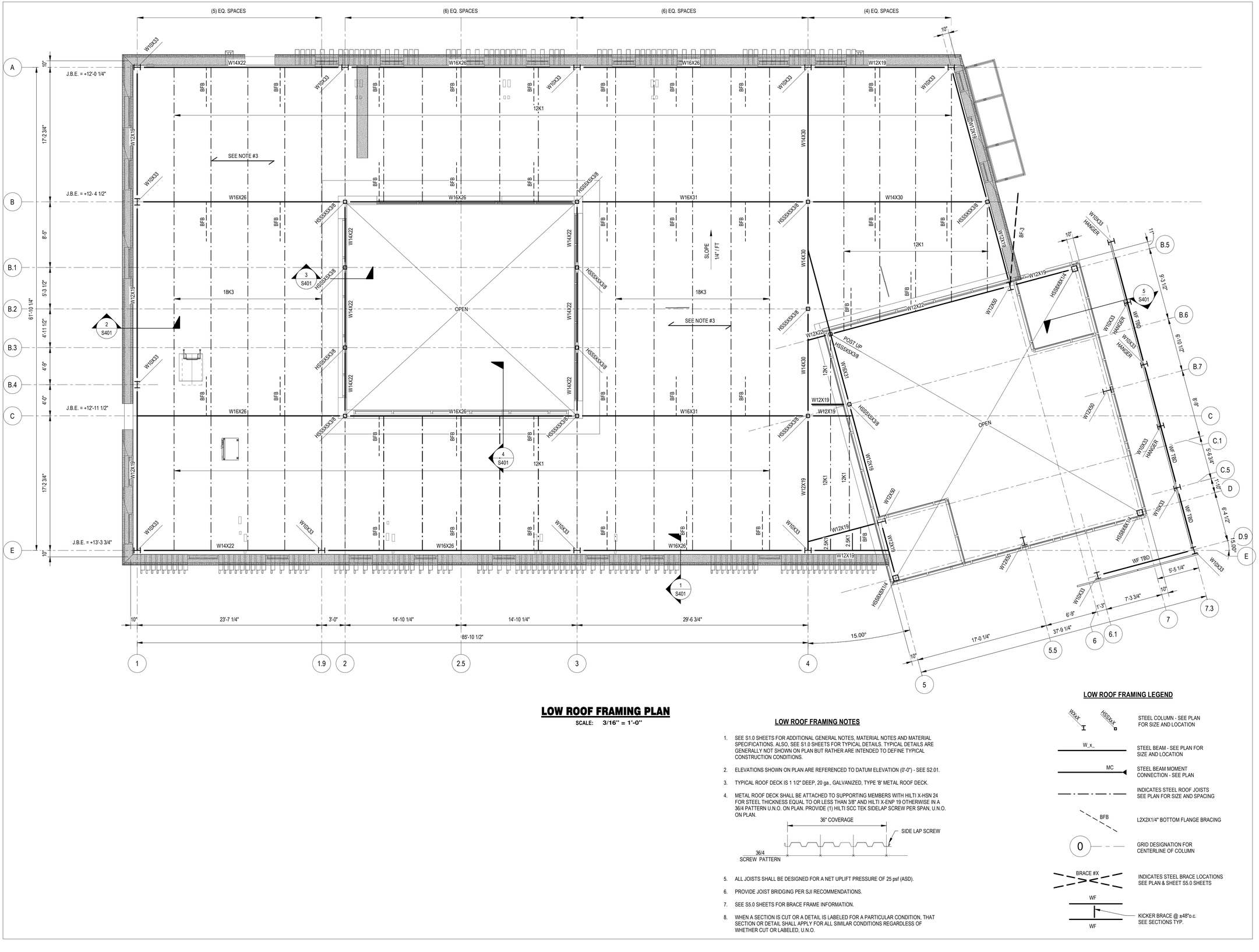
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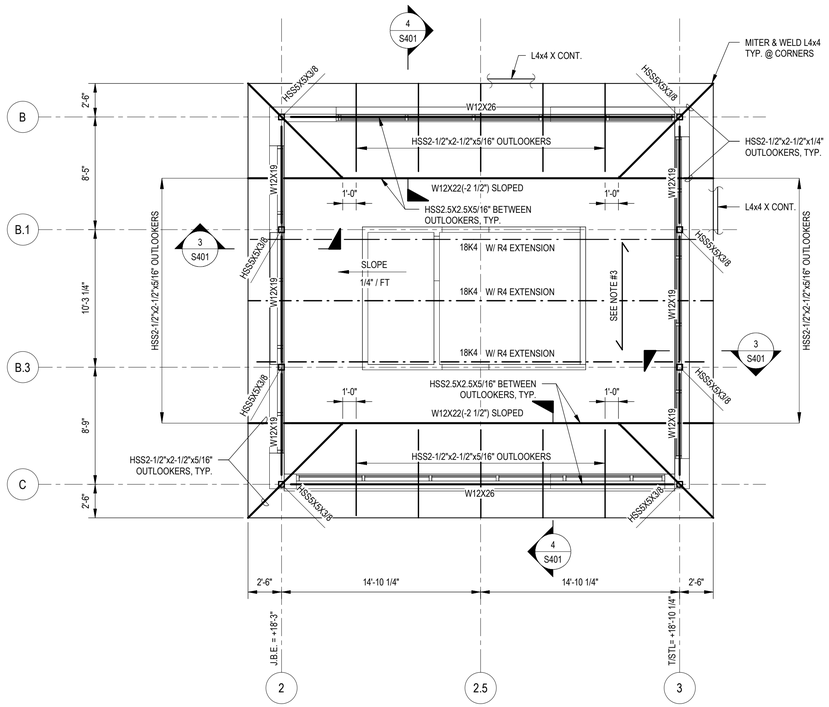
FOUNDATION PLAN

ISSUE DATE 12/20/2022
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

S201

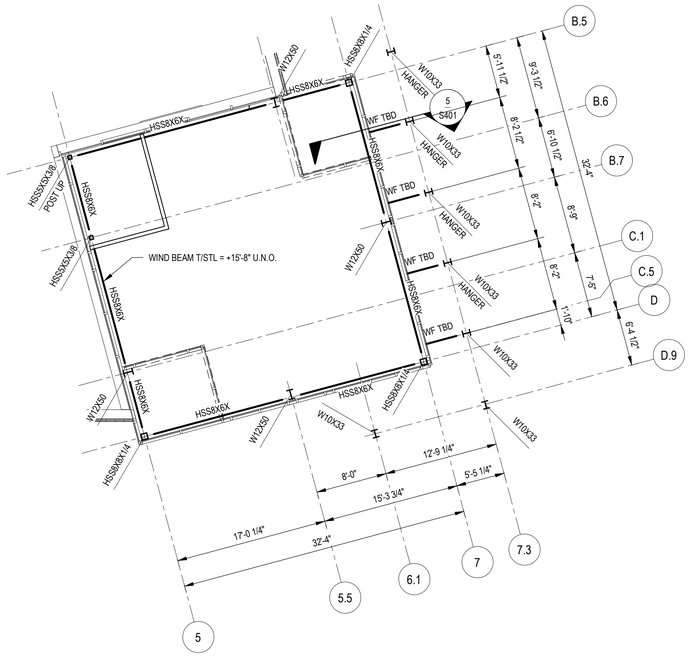
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(5) EQ. SPACES
(6) EQ. SPACES
(6) EQ. SPACES
(4) EQ. SPACES
A
B
B.1
B.2
B.3
B.4
C
E
J.B.E. = +12'-0 1/4"
J.B.E. = +12'- 4 1/2"
J.B.E. = +12'-11 1/2"
J.B.E. = +13'-3 3/4"
61'-10 1/4"
17'-2 3/4"
8'-5"
5'-3 1/2"
4'-11 1/2"
4'-9"
4'-0"
17'-2 3/4"
10"
W10X33
W14X22
W16X26
W16X31
W14X30
W12X19
W12X22
W12X50
W12X65
W12X136
W14X22
W16X26
W16X31
W14X30
W12X19
W12X19
W12X19



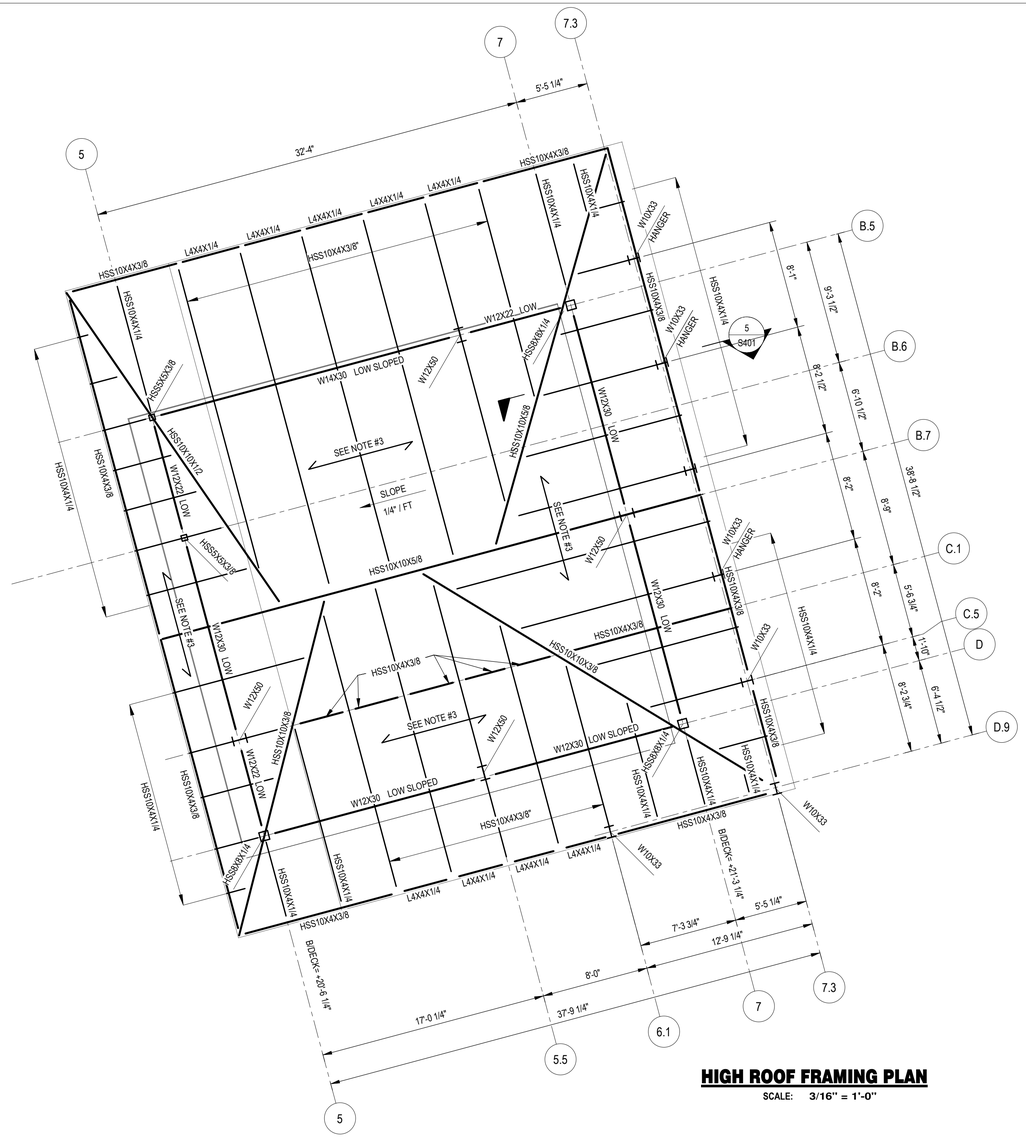
CELERESTORY ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"



CURTAIN WALL WIND BEAM FRAMING PLAN

SCALE: 1/8" = 1'-0"



HIGH ROOF FRAMING PLAN

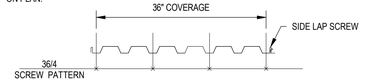
SCALE: 3/16" = 1'-0"

CLERESTORY & HIGH ROOF FRAMING LEGEND

- W0X3X / HSS3XXX — STEEL COLUMN - SEE PLAN FOR SIZE AND LOCATION
- W_x_ — STEEL BEAM MOMENT CONNECTION - SEE PLAN
- MC — STEEL BEAM - SEE PLAN FOR SIZE AND LOCATION
- INDICATES STEEL ROOF JOISTS SEE PLAN FOR SIZE AND SPACING
- BFB — GIRDER BOTTOM FLANGE BRACING SEE SECTION ON S1.0 SHEETS
- 0 — GRID DESIGNATION FOR CENTERLINE OF COLUMN
- BRACE #X — INDICATES STEEL BRACE LOCATIONS SEE PLAN & SHEET S5.0 SHEETS

CLERESTORY & HIGH ROOF FRAMING NOTES

1. SEE S1.0 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
2. ELEVATIONS SHOWN ON PLAN ARE REFERENCED TO DATUM ELEVATION (0'-0") - SEE S2.01.
3. TYPICAL ROOF DECK IS 1 1/2" DEEP, 20 ga., GALVANIZED, TYPE 'B' METAL ROOF DECK.
4. METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS WITH HILTI X-HSN 24 FOR STEEL THICKNESS EQUAL TO OR LESS THAN 3/8" AND HILTI X-ENP 19 OTHERWISE IN A 36/4 PATTERN U.N.O. ON PLAN. PROVIDE (1) HILTI SCC TEK SIDELAP SCREW PER SPAN, U.N.O. ON PLAN.



5. ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF 25 psf (ASD).
6. PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS.
7. SEE S5.0 SHEETS FOR BRACE FRAME INFORMATION.
8. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

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No.	Description	Date

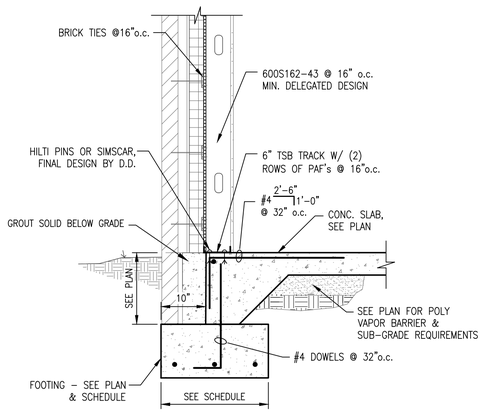
100% DESIGN DEVELOPMENT

CLERESTORY & HIGH ROOF FRAMING PLAN

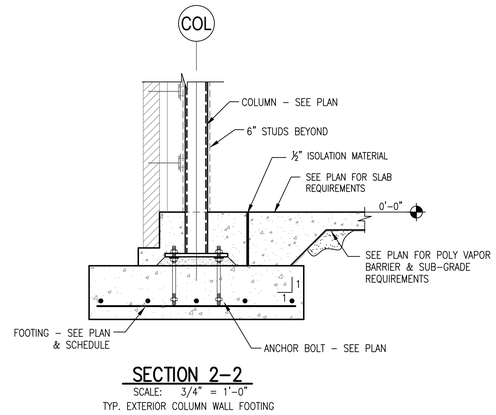
ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

S203

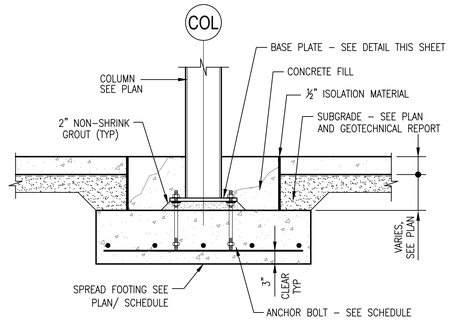
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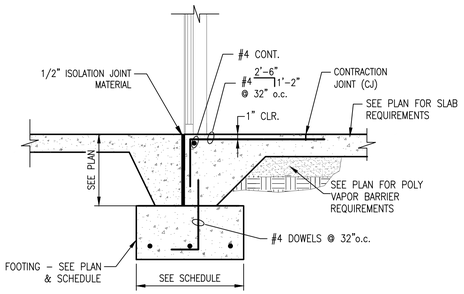
SECTION 1-1
SCALE: 3/4" = 1'-0"



SECTION 2-2
SCALE: 3/4" = 1'-0"
TYP. EXTERIOR COLUMN WALL FOOTING



SECTION 3-3
SCALE: 3/4" = 1'-0"
TYP. INTERIOR COLUMN FOOTING



SECTION 4-4
SCALE: 3/4" = 1'-0"

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 049776 ENGINEER DAVID R. WOODS

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

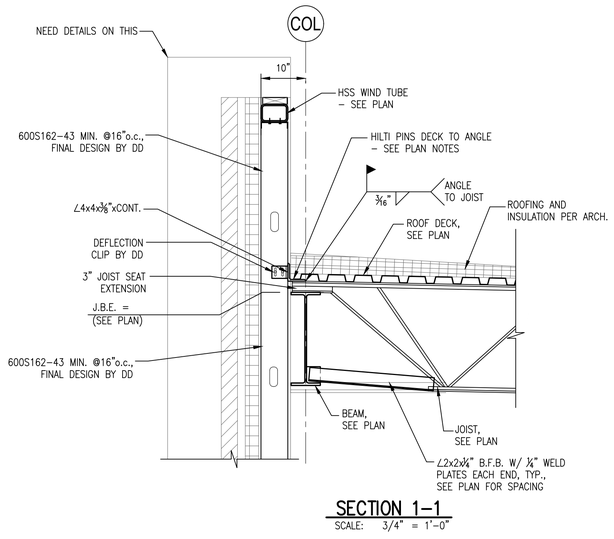
100% DESIGN DEVELOPMENT

FOUNDATION SECTIONS & DETAILS

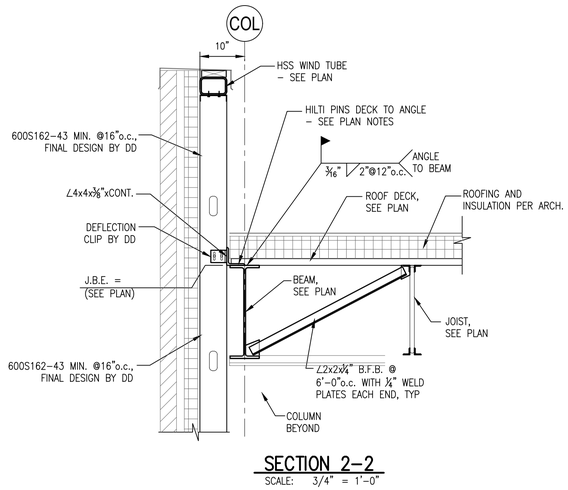
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S301

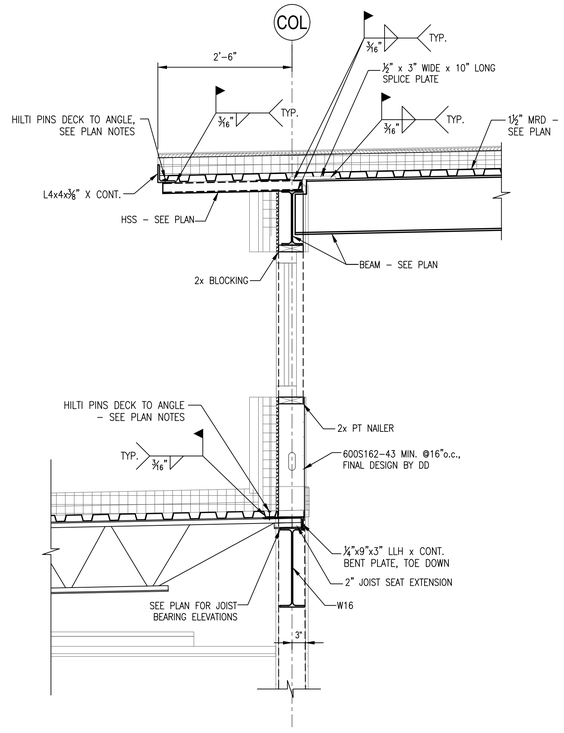
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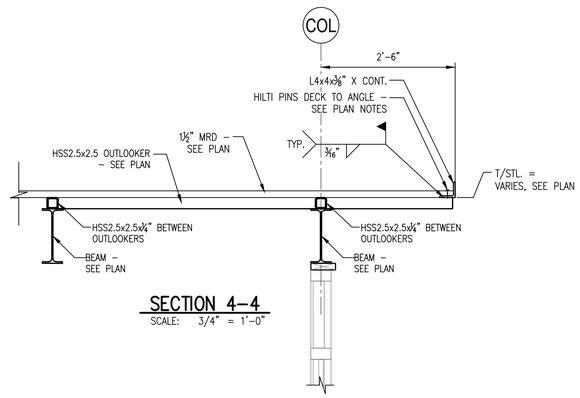
SECTION 1–1
SCALE: 3/4" = 1'–0"



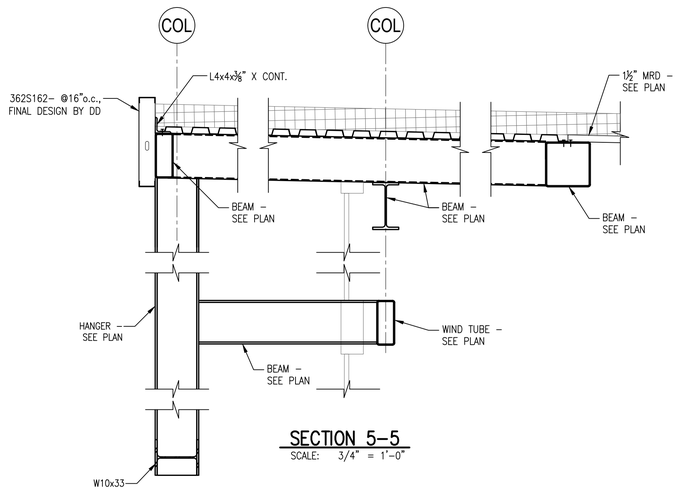
SECTION 2–2
SCALE: 3/4" = 1'–0"



SECTION 3–3
SCALE: 3/4" = 1'–0"



SECTION 4–4
SCALE: 3/4" = 1'–0"



SECTION 5–5
SCALE: 3/4" = 1'–0"

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

No.	Description	Date

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ROOF FRAMING SECTIONS & DETAILS

ISSUE DATE 12/20/2022
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PROJECT NUMBER 22-3543

S401

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GENERAL MECHANICAL NOTES

1. CEILING CAVITIES ON ALL FLOORS ON THIS PROJECT ARE USED AS RETURN AIR PLENUMS AND ALL SYSTEM COMPONENTS SHALL BE RATED FOR PLENUM APPLICATIONS.
2. THERMOSTATS, WALL SWITCHES, ETC. SHALL BE LOCATED AT THE SAME HEIGHT AS LIGHT SWITCHES (WITH 48" TO TOP MAXIMUM) IN ACCORDANCe. WITH THE NORTH CAROLINA ACCESSIBILITY CODE. COORDINATE PLACEMENT WITH THE ELECTRICAL SUB-CONTRACTOR.
3. ALL DOOR LOUVERS AND UNDERCUTS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. ARCHITECT TO SELECT.
4. ALL WIRING, CONTROL WIRING, AND CONDUIT SHALL BE CONCEALED IN FINISHED SPACES.
5. DUCT DIMENSIONS INDICATED ARE NET AIR STREAM INTERIOR DIMENSIONS OF DUCTWORK.
6. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0".
7. SUPPLY AND RETURN REGISTERS IN THE WALLS SHALL BE FIELD PAINTED. COLOR SHALL BE SELECTED BY THE ARTCHITECT.
8. FOR EXACT LOCATION OF GRILLES, DIFFUSERS, ETC., REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
9. THE DIVISION 23 SUB-CONTRACTOR SHALL PROVIDE TRANSITIONS AS REQUIRED TO MAKE DUCT CONNECTIONS FROM TERMINAL UNITS TO DUCTWORK WHERE DUCT SIZES ARE NOT SHOWN OR DO NOT MATCH INLET OPENINGS. TRANSITIONS SHALL HAVE A 7:1 RATIO.
10. RUN-OUTS TO SUPPLY, RETURN AND EXHAUST DISTRIBUTION DEVICES SHALL BE AS INDICATED ON THE PLANS. WHERE SIZE OF RUN-OUT IS NOT GIVEN, THE RUN-OUT SHALL HAVE AN AREA EQUAL TO THE DISTRIBUTION DEVICE NECK SIZE. NECK SIZE SHALL BE BASED ON NC 20 OR LESS.
11. ROOF OPENINGS AND THEIR ASSOCIATED MISCELLANEOUS STEEL SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
12. PROVIDE REMOTE MOUNTED YOUNG REGULATORS FOR BALANCING OF ALL VOLUME DAMPERS ABOVE ROOMS WITH DRY WALL CEILINGS.
13. THE GENERAL CONTRACTOR SHALL PROVIDE HORIZONTAL CHANNELS AS REQUIRED TO FRAME CEILING OPENINGS FOR STRIP DIFFUSERS. THE GENERAL CONTRACTOR SHALL POSITION HIS DIAGONAL BRACES TO AVOID DUCT AND PIPING. THE DIVISION 15B SUB-CONTRACTOR SHALL COORDINATE THESE ITEMS WITH THE GENERAL CONTRACTOR.
14. ALL LOW PRESSURE DUCTWORK ABOVE NON-LAY-IN CEILINGS SHALL BE RIGID SHEET METAL. NO FLEXIBLE DUCTWORK SHALL BE USED.
15. PIPE HANGERS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE DIVISION 23 SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
16. ALL DUCTWORK SHALL BE SEALED CLASS 'A' PER SMACNA STANDARDS.
17. INSULATE BACKS OF ALL SUPPLY DIFFUSERS.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

Prescriptive [X] Energy Cost Budget [ ]

Thermal Zone: ZONE 3A

Exterior design conditions

winter dry bulb	23 °F
summer dry bulb	93 °Fdb / 78°Fwb

Interior design conditions

winter dry bulb	70 °F
summer dry bulb	75 °F
relative humidity	50 % R.H.

Building heating load: 154 MBH

Building cooling load: 30 TONS

Mechanical Spacing Conditioning System

Unitary: PACKAGED ROOF TOP UNIT

description of unit	DX COOLING ONLY
heating efficiency	SEE DRAWING M002
cooling efficiency	SEE DRAWING M002
heat output of unit	SEE DRAWING M002
cooling output of unit	SEE DRAWING M002

boiler: NOT APPLICABLE

total boiler output, if oversized, state reason.

chiller: NOT APPLICABLE

total chiller capacity, if oversized, state reason.

List equipment efficiencies

Equipment schedule with motors (mechanical systems)

motor horsepower	SEE DRAWING M002
number of phases	SEE DRAWING M002
minimum efficiency	SEE DRAWING M002
motor type	SEE DRAWING M002
# of poles	SEE DRAWING M002

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code, 2018Edition.

Signed:

Name: JAMES CURRIE, P.E.

Title: PRINCIPAL

MECHANICAL SYMBOLS LEGEND

CD	SUPPLY AIR DUCT OR DIFFUSER
RG/EG	RETURN OR EXHAUST AIR DUCT OR GRILLE
CD-X / XXX	DEVICE DESIGNATION / CFM
8"x10"	RECTANGULAR DUCTWORK WIDTH x HEIGHT
8"x10"(L)	RECTANGULAR DUCTWORK WIDTH x HEIGHT LINED DUCT; (L) DUCT LINER
10"□	ROUND DUCT SIZE
	VANE ELBOW (DOUBLE WALL VANES)
7 1	RECTANGULAR DUCTWORK TRANSITION
	DUCT/ AIR BLOWING UP TOWARD READER
	DUCT/ AIR BLOWING AWAY FROM READER
	DUCT/ AIR FLOW DOWN
	FLEXIBLE DUCT, MAX. 6'-0" LONG.
	EXHAUST OR RETURN REGISTER OR GRILLE
	CONICAL TAP WITHOUT VOLUME DAMPER (MPSA DUCT)
VD	SPIN-IN FITTING WITH VOLUME DAMPER (LOW PRESSURE DUCT ONLY)
VD	BRANCH TAKE-OFF WITH VOLUME DAMPER
MD	MANUAL ISOLATION DAMPER (NORMALLY CLOSED)
AD	MOTORIZED AUTOMATIC DAMPER
T	THERMOSTAT
S	WALL SWITCH
O	WALL MOUNT - PUSHBUTTON OVERRIDE SWITCH TO BAS
DD	DUCT DETECTOR
▶ FD	FIRE DAMPER W/ACCESS DOOR (WALL)
◆ FD	FIRE DAMPER W/ACCESS DOOR (FLOOR)
▲FD/SD	COMBINATION FIRE/SMOKE DAMPER W/ACCESS DOOR (WALL)
◆ FD/SD	COMBINATION FIRE/SMOKE DAMPER W/ACCESS DOOR (FLOOR)
▲SD	SMOKE DAMPER W/ACCESS DOOR (WALL)
◆ SD	SMOKE DAMPER W/ACCESS DOOR (FLOOR)
VD	VOLUME DAMPER
	ACCESS DOOR
OA	OUTDOOR AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
RA	RETURN AIR
MPSA	MEDIUM PRESSURE SUPPLY AIR
RTU	PACKAGED ROOFTOP UNIT
AFF	ABOVE FINISHED FLOOR
M.C.	HVAC SUB-CONTRACTOR
G.C.	GENERAL SUB-CONTRACTOR
P.C.	PLUMBING SUB-CONTRACTOR
E.C.	ELECTRICAL SUB-CONTRACTOR
F.D.	FIRE DAMPER OR FLOOR DRAIN
B.O.W.	BAKED ON WHITE
NTS	NOT TO SCALE
X-	EXISTING
	CONNECT TO EXISTING
	EXISTING EQUIPMENT, DUCT OR PIPE

MECHANICAL DRAWING LIST

Sheet Number	Sheet Name
M001	MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST
M002	MECHANICAL SCHEDULES
M101	MECHANICAL DUCTWORK PLAN
M102	MECHANICAL PIPING AND ZONING PLAN
M201	MECHANICAL ROOF PLAN
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL CONTROLS
M501	MECHANICAL CONTROLS

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

222.063

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

3009 PRINCESS PLACE DRIVE

No.	Description	Date

100% DESIGN DEVELOPMENT

MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST

ISSUE DATE 12/20/2022

CHECKED JLC

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PROJECT NUMBER 21-010

M001

AIR DISTRIBUTION DEVICE SCHEDULE

DESIGNATION	NAILOR MODEL NO.	SERVICE	MAXIMUM CFM	PANEL SIZE	NECK SIZE	FINISH	REMARKS
CD-1	RNS/ARNS	CEILING SUPPLY DIFFUSER	0-140	24X24	6"□	B.O.W.	NOTE 1, 6, 7
CD-2	RNS/ARNS	CEILING SUPPLY DIFFUSER	141-250	24X24	8"□	B.O.W.	NOTE 1, 6, 7
CD-3	RNS/ARNS	CEILING SUPPLY DIFFUSER	251-360	24X24	10"□	B.O.W.	NOTE 1, 6, 7
SR-1	51DV	SURFACE MOUNT SUPPLY GRILLE ALUMINUM CONSTRUCTION	200	14X8	12x6	B.O.W.	NOTE 5, 6
RG-1	4360A	CEILING MOUNTED RETURN GRILLE	600	24X12	22X10	B.O.W.	NOTE 3, 6
RG-2	4360A	CEILING MOUNTED RETURN GRILLE	1000	24X24	22X22	B.O.W.	NOTE 3, 6
EG-1	4360A	CEILING MOUNTED EXHAUST GRILLE	100	24X12	6"□	B.O.W.	NOTE 5, 6, 7
SD-1	5850	SLOT DIFFUSER (ICE TONG DEFLECTORS)	150	48"X6"	8"□	NOTE 6	NOTE 2, 6, 2 SLOT, 3/4"
SD-2	5850	SLOT DIFFUSER (ICE TONG DEFLECTORS)	250	48"X6"	8"□	NOTE 6	NOTE 2, 6, 3 SLOT, 3/4"
RR-1	5145H	SURFACE MOUNT TRANSFER GRILLE	1500	28x24	26x22	B.O.W.	NOTE 5, 6, 7
RR-2	5145H	SURFACE MOUNT TRANSFER GRILLE	200	14x10	12x8	B.O.W.	NOTE 5, 6, 7
RR-3	5850	SURFACE MOUNT TRANSFER GRILLE	200	48"X6"	N/A	B.O.W.	NOTE 2, 6, 2 SLOT, 3/4"

NOTES:

1. PROVIDE FRAMES TO MATCH CEILING TYPES. "a" DESIGNATION ON CEILING DIFFUSERS DENOTES SURFACE MOUNTING.
2. PROVIDE END CLIPS, ALIGNMENT STRIPS AND CONCEALED MOUNTING. PROVIDE 12"H X FULL LENGTH INTERNALLY LINED PLENUM FOR EACH AT WIDTH NECESSARY TO ACCOMMODATE # OF SLOTS..
3. INSULATE THE BACKS OF ALL SUPPLY DIFFUSERS.
4. SURFACE MOUNT
5. PROVIDE MANUAL VOLUME DAMPER FOR BALANCING AIR FLOWS IN ACCESSIBLE LOCATION.
6. VERIFY COLOR WITH ARCHITECT.
7. ALL GRILLES AND REGISTERS LOCATED IN JANITOR AND TOILER TOOMS SHALL BE ALUMINUM CONSTRUCTION. OTHER AREAS TO BE STEEL CONSTRUCTION.
8. ALL LINEAR DIFFUSERS SHALL HAVE EXTERNALLY INSULATED SUPPLY PLENUMS.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

DESIGNATION	ROOMS SERVED	SELECTED ON TRANE MODEL	SIZE	INLET DIA.	COOLING		HEAT CFM	REHEAT COIL DATA										REMARKS
					MIN CFM	MAX CFM		MBH	KW	VOLTS	PHASE	STAGES	CONTROL	AMPS	MCA	MOCP	EAT	LAT @ HTG. CFM	
VAV-01	103, 104, 105, CORRIDOR	VCEF	6"	6"	85	325	190	8.4	2.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-02	106, 107, CORRIDOR	VCEF	5"	5"	45	175	150	6.5	2	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-03	108, 109, 110, CORRIDOR	VCEF	6"	6"	90	350	190	8.4	2.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-04	111, 112, 113, CORRIDOR	VCEF	6"	6"	75	285	225	9.9	3	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-05	114, 115, CORRIDOR	VCEF	8"	8"	105	405	205	8.5	2.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-06	117, 119	VCEF	6"	6"	85	330	165	6.4	2	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-07	116, 118, 120, CORRIDOR	VCEF	5"	5"	45	175	90	3.2	1	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-08	121, 122	VCEF	8"	8"	110	430	225	10.1	3	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-09	123, 124, 125, CORRIDOR	VCEF	8"	8"	145	570	285	11.5	3.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-10	126, 127, 128, CORRIDOR	VCEF	8"	8"	135	525	265	11.2	3.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-11	142, 143, CORRIDOR	VCEF	6"	6"	85	330	165	6.6	2	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-12	101, 102, CORRIDOR	VCEF	6"	6"	70	270	135	4.7	1.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-13	132, 136, 137, 138, 139	VCEF	10"	10"	225	900	450	14.9	4.5	277	1	1	SCR	-	-	-	55	90	1, 2, 3, 4
VAV-14	129, 130, 131	VCEF	10"	10"	230	920	600	26.8	8	480	3	1	SCR	-	-	-	55	90	1, 2, 3, 4

NOTE:

1. VAV BOX INLET SIZE MAY NOT MATCH INCOMING DUCT SIZE. CONCENTRIC TRANSITION WILL BE REQUIRED WHEN THIS OCCURS.
2. VAV BOX HEATING COILS SHALL BE KW INDICATED ON SCHEDULE.
3. PROVIDE WITH DDC CONTROLLER, 1" FOIL FACED INSULATION. ORIENTATION OF ACCESS PANELS PER FLOOR PLANS.
4. PROVIDE DISCONNECT.

SERIES FAN POWERED AIR TERMINAL UNIT SCHEDULE

DESIGNATION	SELECTED ON TRANE MODEL	SIZE	INLET DIA.	COOLING		HEAT CFM	FAN CFM	FAN STATIC	VOLTS / PH	FAN HP	REHEAT COIL DATA									REMARKS
				MIN CFM	MAX CFM						KW	VOLTS	PHASE	CONTROL	FLA	MCA	MOCP	EAT	LAT @ HTG CFM	
FPVAV-01	RMS 100, 145	12"	12"	325	1285	865	1285	0.3"	480/3	1	11.5	480	3	SCR				66	90	1, 2, 3, 4, 5
FPVAV-02	RMS 100, 146	10"	10"	260	1035	695	1035	0.3"	480/3	1	9	480	3	SCR				66	90	1, 2, 3, 4, 5

NOTE:

1. VAV BOX INLET SIZE MAY NOT MATCH INCOMING DUCT SIZE. CONCENTRIC TRANSITION WILL BE REQUIRED WHEN THIS OCCURS.
2. UNITS WITH 208V THREE PHASE POWER REQUIRE 36" CLEARANCE ON SIDE WITH ACCESS PANEL.
3. PROVIDE SERIES FAN POWERED BOXES WITH ELECTRIC REHEAT FOR THE MAIN LOBBY. ALL OTHER BOXES ARE SHUTOFF VAV TYPE WITH ELECTRIC REHEAT.
4. VAV BOX HEATING COILS SHALL BE KW INDICATED ON SCHEDULE.
5. PROVIDE DISCONNECT.
6. FURNISH WITH HANG POINTS.

FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	CFM	E.S.P.	TYPE	DRIVE	BHP	MHP	VOLTS/ PHASE	WEIGHT LBS	ROOF OPENING	RPM	COOK MODEL NUMBER	REMARKS
EF-1	ROOF	TOILETS, JANITOR, SOILED, CLEAN	420	0.5	CENTRIFUGAL DOWNBLAST	DIRECT	0.122	0.167	120/1	20	28 7/16" x 28 7/16"	3348	120 ACED OR80	SEE NOTES 1-8

NOTES:

1. PROVIDE WITH THE FOLLOWING ACCESSORIES:
   - ECM WITH SPEED CONTROLLER
   - 14" HIGH INSULATED ROOF CURB
   - DISCONNECT SWITCH
   - HIGH WIND RATED
   - FOAM CURB SEAL
   - BACKDRAFT DAMPER
   - TIE DOWN POINTS
   - HOOD HASPS
   - STAINLESS STEEL FASTENERS
   - ALUMINUM BIRD SCREEN

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

DESIGNATION	LOCATION	TYPE	UNIT CAPACITY		MITSUBISHI MODEL NUMBER	CFM/HEAT/DRY	CFM/COOL/WET	ELECTRICAL DATA				SEER RATING	REMARKS
			COOLING @ 80°F	HEATING @ 17°F		LOW/MED/HIGH	LOW/MED/HIGH	VOLTS	PHASE	MCA	MOCP		
INDOOR UNITS													
SSI-1	IT-TELECOM 145	WALL HUNG	12.0 MBH	N/A	PKA-A12HA7	250/315/380	240/290/340	208	1	1.2	15	NA	1, 2, 3, 6
OUTDOOR UNIT													
SSO-1	ROOF	PAD	NA	NA	PUY-A12NKA7	NA	NA	208	1	15	20	16.0	1, 3, 4, 7

NOTES:

1. PROVIDE UNIT WITH LOW-AMBIENT COOLING CONTROL ACCESSORY TO 20°F.
2. PROVIDE WALL MOUNTED THERMOSTAT.
3. CAPACITIES BASED ON OUTDOOR AMBIENT TEMPERATURE OF 95°F.
4. REFRIGERANT SIZING, ROUTING AND ACCESSORIES SHALL BE PROVIDED BY UNIT MANUFACTURER.
5. PROVIDE EMERGENCY FLOAT SWITCH.
6. PROVIDE CONDENSATE PUMP: LITTLE GIANT VCMX-20. PUMP CONDENSATE TO ROOF.
7. PROVIDE DISCONNECT.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	LOCATION	TONS	EER	BASIS OF DESIGN: TRANE MODEL	OUTSIDE AIR CFM	SUPPLY AIR FAN				DX COOLING COIL DATA (95° AMBIENT)				RETURN/EXHAUST AIR FAN		ELECTRICAL CONNECTIONS			FAN HEAT (°F)	ELECTRIC HEATING COIL			WEIGHT WITH CURB	NOTES
						SUPPLY AIR CFM	TOTAL/ EXT. S.P. IN W.G.	MOTOR		E.A.T. °F db / wb	L.C.T. °F db / wb	SENSIBLE MBH (NET)	TOTAL MBH (NET)	CFM	MOTOR HP	VOLTS/ PHASE	MCA	MOCP		EAT (°F)	LAT (°F)	KW		
								HP	BHP															
RTU-1	ROOF	30	10.6	TED360CE**0D3GGA0B*****HJBE2KOR	1500	9500	2.0	15	8.98	77.9/66.0	52.3/52.2	236	357	9500	2	208/3	184.05	225	3	62.3	79.5	54	5000	1 THRU 20

NOTES:

1. L.A.T. °F IS THE LEAVING AIR TEMPERATURE FROM COIL.
2. PROVIDE INSULATED 14" HIGH CURB FOR SLOPED ROOF WITH SPRING ISOLATION RAIL FOR ENTIRE UNIT, UNIT SHOULD BE LEVEL, O.A. INTAKE & RELIEF HOOD.
3. PROVIDE VFD FOR EACH FAN. VFD - VARIABLE FREQUENCY DRIVE w/PHASE LOSS PROTECTION FOR DRIVE & MANUAL BYPASS.
4. PROVIDE 100% OUTSIDE AIR AND 100% RELIEF AIR ECONOMIZER CYCLE PACKAGE COMPLETE WITH OPERATING CONTROLS AND "ULTRA LOW LEAK" DAMPERS FOR EACH UNIT. POWERED EXHAUST.
5. SINGLE POINT POWER CONNECTION FOR EACH UNIT. UL OR ETL LISTED.
6. VERIFY SLOPE OF ROOF FOR CURB TO BE LEVEL WITH STRUCTURAL DRAWINGS.
7. 4" MERV 14 FILTERS.
8. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE PRESSURE DROP FOR COOLING COIL, FILTER, GAS FURNACE ECONOMIZER SECTION & FAN SECTIONS.
9. PROVIDE BAS INTERFACE CONTROLLER FOR EACH UNIT.
10. PROVIDE HINGED SERVICE ACCESS PANELS.
11. PROVIDE 5-YEAR COMPRESSOR WARRANTY.
12. PROVIDE STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
13. PROVIDE 5 MINUTE TIME DELAY.
14. PROVIDE HIGH EFFICIENCY MOTORS.
15. PROVIDE HIGH CAPACITY EVAPORATOR.
16. REFRIGERANT SHALL BE R410A.
17. PROVIDE CRANKCASE HEATERS.
18. PROVIDE CLOGGED FILTER SWITCH, CONDENSER COIL GUARDS, AND THROUGH THE BASE ELECTRICAL.
19. ACCEPTABLE ALTERNATE MANUFACTURERS ARE CARRIER, DAIKEN AND JCI.
20. PROVIDE DISCONNECT.

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

3009 PRINCESS PLACE DRIVE

No.	Description	Date

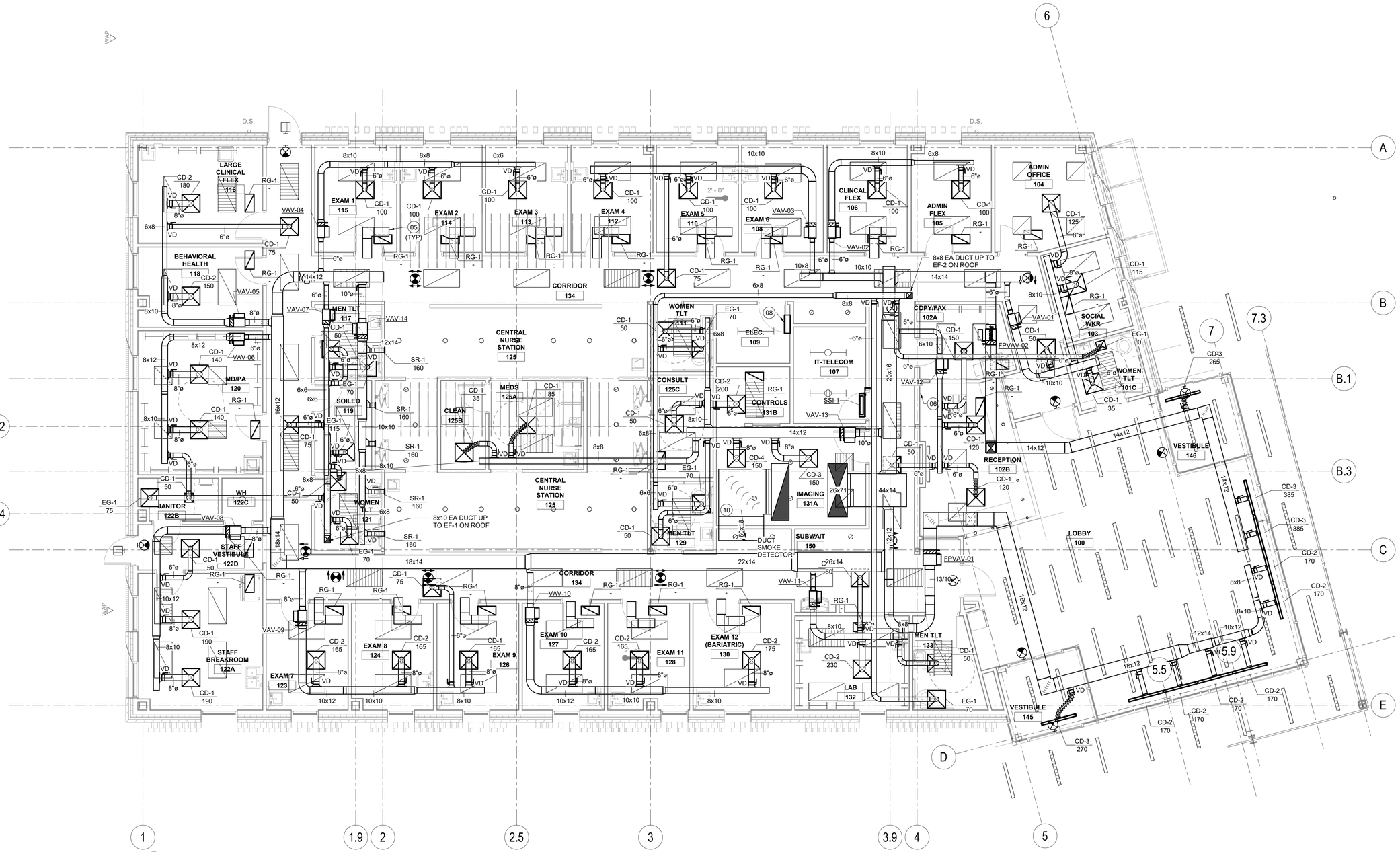
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MECHANICAL SCHEDULES

ISSUE DATE 12/20/2022
CHECKED JLC
SHEET BY CADD
PROJECT NUMBER 21-010

M002

MECHANICAL KEYNOTE LEGEND	
Key Value	Keynote Text
05	12x12 TRANSFER AIR DUCT WITH 1" ACOUSTICAL LINER. SEE DETAIL.
06	INSTALL AUDIBLE AND VISUAL ALARM ON BACK WALL OF RECEPTION DESK. ALARM SHALL ACTIVATE IF THE ROOFTOP UNIT DUCT SMOKE DETECTOR GOES OFF. COORDINATE EXACT LOCATION OF ALARM DEVICE WITH ARCHITECT.
08	PROVIDE NEW JACE WITH TRANSFORMERS, DATA CONNECTION, AND ROUTER SWITCH IN A UL LISTED CONTROL PANEL. JACE SHALL HAVE A 7" TOUCHSCREEN DISPLAY WITH GRAPHICS CAPABILITY. PROVIDE WIRING IN 1" CONDUIT FROM IT SERVER TO JACE. PROVIDE LOCAL UPS POWERSTRIP. A 120V OUTLET AND DATA CONNECTION IS PROVIDED BY EC FOR POWER. OWNER'S IT GROUP TO PROVIDE IP ADDRESS.
10	DUCT MOUNTED SMOKE DETECTOR. SEE KEYNOTE 6 FOR INTERLOCK GUIDELINES.



1 M101 FLOOR PLAN - DUCTWORK
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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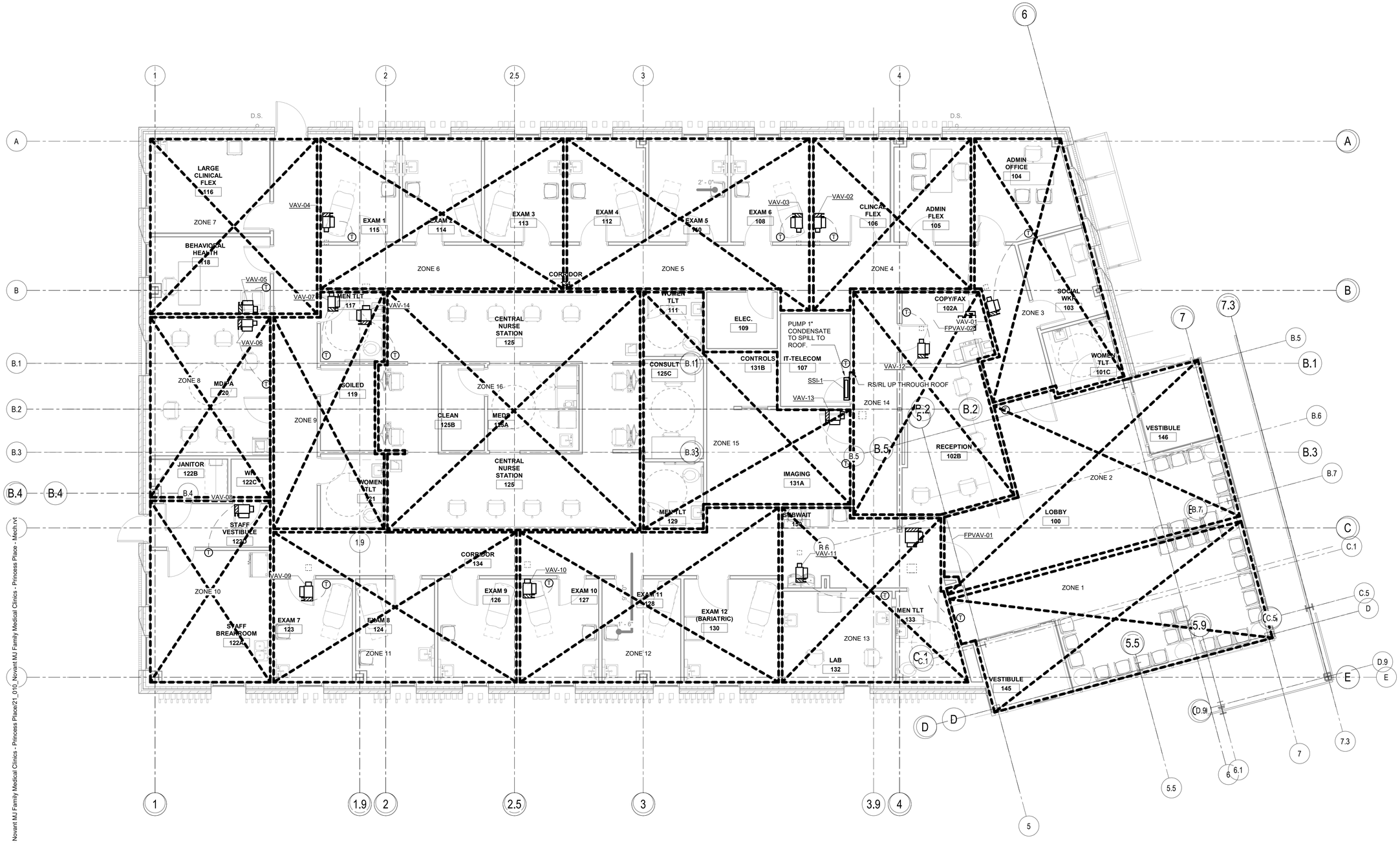
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MECHANICAL DUCTWORK PLAN

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M101

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1 M102 MECHANICAL ZONING PLAN
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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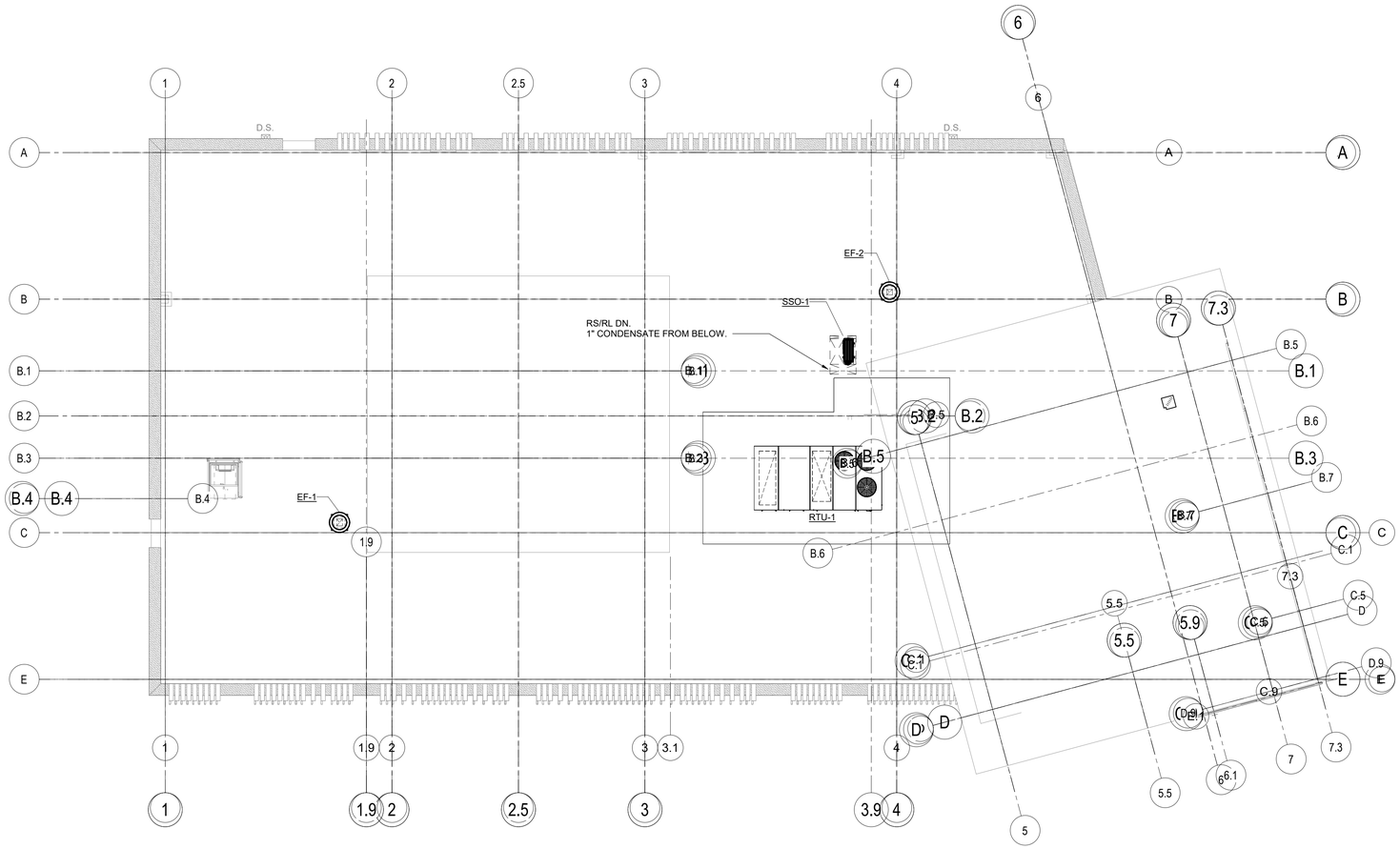
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MECHANICAL PIPING AND ZONING PLAN

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M102



1 M201 HIGH ROOF
1/8" = 1'-0"

4' 0 4' 8' 16'

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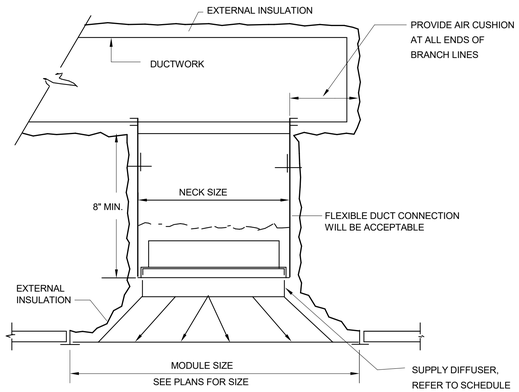
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MECHANICAL ROOF PLAN

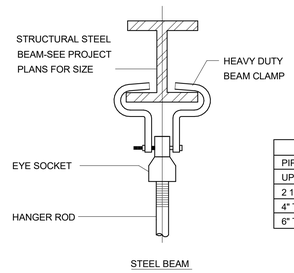
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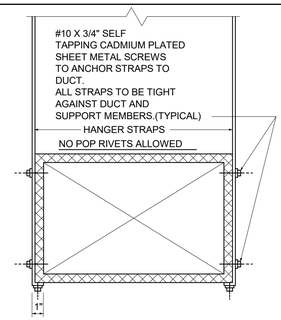


9	CEILING DIFFUSER DETAIL
M400	SCALE: NONE



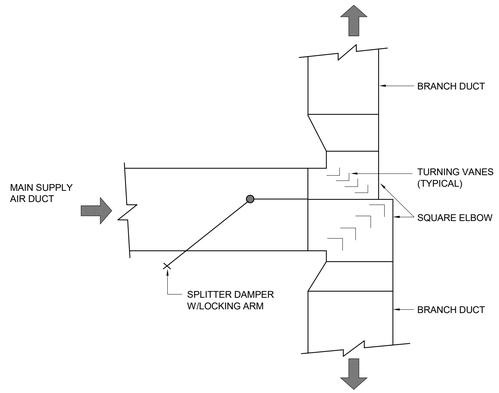
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 12" THRU 3"	1/2" DIA.
4" THRU 5"	5/8" DIA.
6" THRU 12"	7/8" DIA.

6	PIPE HANGER ATTACHMENT
M400	SCALE: NONE

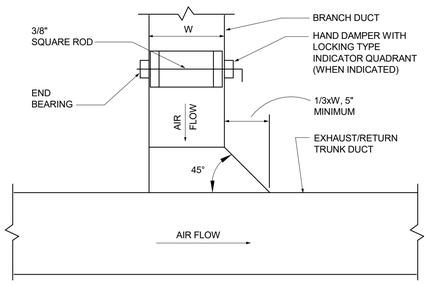


HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
UP TO 34"	1"X18" GAUGE STRAP	NONE REQUIRED	8'-0"

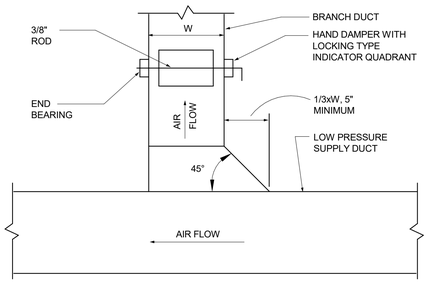
3	DUCT STRAP HANGAR DETAIL
M400	SCALE: NONE



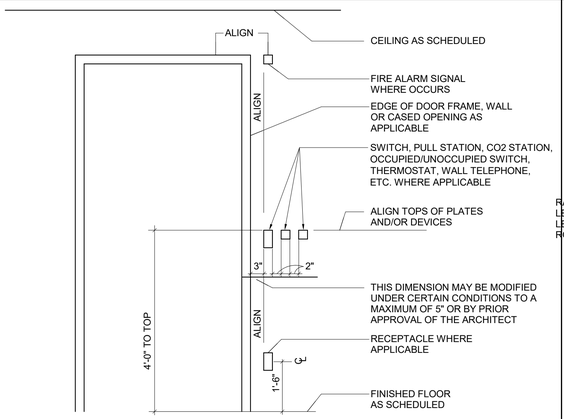
8	HORIZONTAL SUPPLY AIR SPLITTER DAMPER DETAIL
M400	SCALE: NONE



5	RECTANGULAR EXHAUST/ RETURN TAP INTO MAIN DUCT
M400	SCALE: NONE

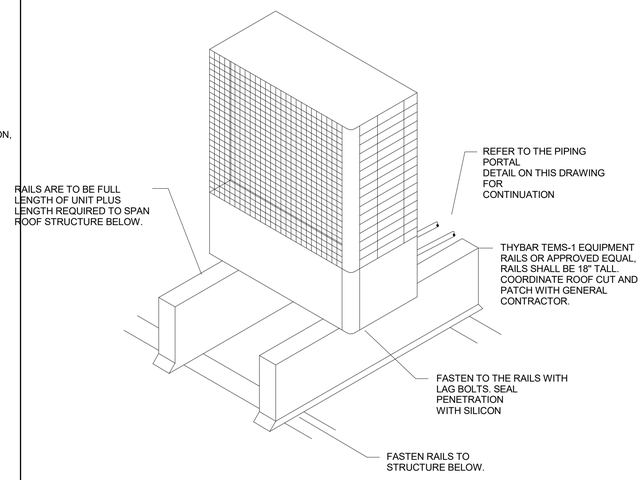


2	RECTANGULAR SUPPLY DUCT TAP TO SINGLE AIR OUTLET
M400	SCALE: NONE

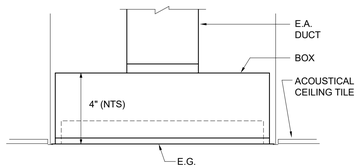


NOTES:
1. SEE ELECTRICAL DRAWINGS FOR SPECIAL CONDITIONS (IE. RECEPTACLES ABOVE COUNTERS, ETC.)
2. ALL THERMOSTATS, SWITCHES, STROBES, HORNS AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
3. FOR STROBES, HORNS, ETC. NOT ADJACENT TO DOORS, ALIGN VERTICALLY AS DIRECTED BY ARCHITECT.

7	TYP. LOCATION OF SWITCHES/ALARMS/THERMOSTATS/OUTLETS
M400	SCALE: NONE



4	ROOF MOUNTED CONDENSING UNIT DETAIL
M400	SCALE: NONE



1	DUCT MOUNTED EXHAUST GRILLE DETAIL (LAY-IN CEILING)
M400	SCALE: NONE

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NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

3009 PRINCESS PLACE DRIVE

No.	Description	Date

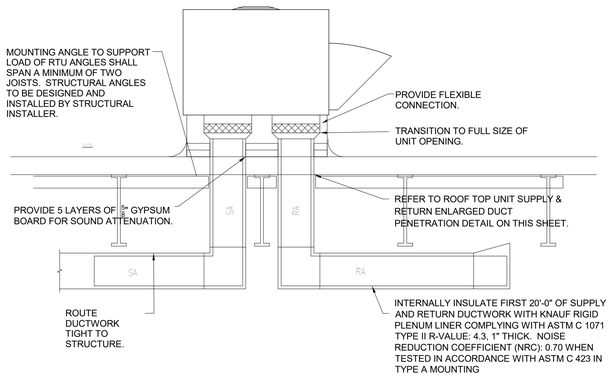
100% DESIGN DEVELOPMENT

MECHANICAL DETAILS

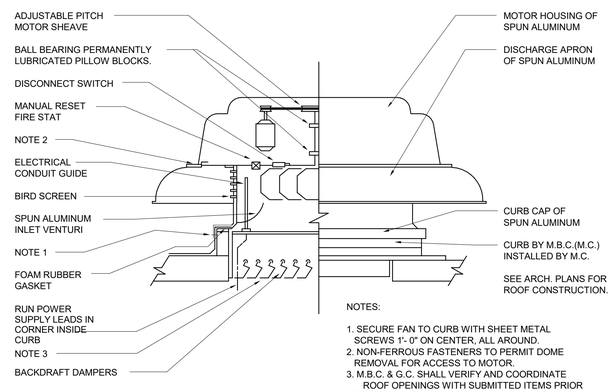
ISSUE DATE 12/20/2022
CHECKED JLC
SHEET BY CADD
PROJECT NUMBER 21-010

M400

12/20/2022 1:41:28 PM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - Mech.rvt



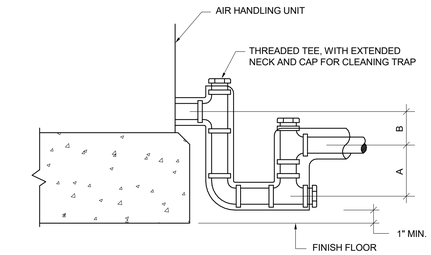
9	ROOF TOP UNIT INSTALLATION DETAIL
M401	SCALE: NONE



NOTES:

1. SECURE FAN TO CURB WITH SHEET METAL SCREWS 1'- 0" ON CENTER, ALL AROUND.
2. NON-FERROUS FASTENERS TO PERMIT DOME REMOVAL FOR ACCESS TO MOTOR.
3. M.B.C. & G.C. SHALL VERIFY AND COORDINATE ROOF OPENINGS WITH SUBMITTED ITEMS PRIOR TO INSTALLATION.

6	TOILET AND GENERAL ROOF EXHAUST DETAIL
M401	SCALE: NONE



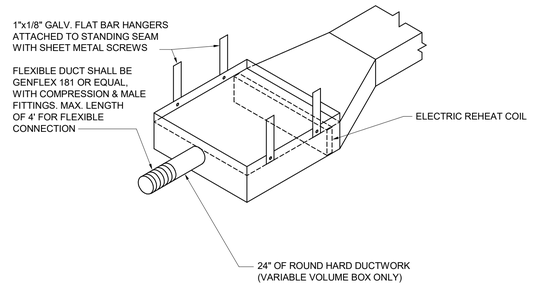
A = GREATER OF 4" OR 1/2" PLUS (BLOWTHRU) AHU TOTAL PRESSURE IN INCHES-WC

B = GREATER OF 2" OR 1/2" PLUS (DRAWTHRU) AHU TO TOTAL PRESSURE IN INCHES-WC

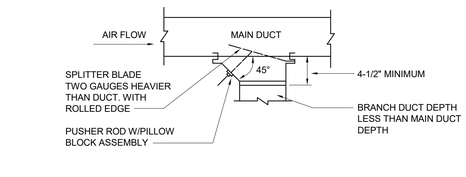
NOTES:

1. 1" MIN. PIPE SIZE OR DRAIN SIZE TAP IN AHU INSULATE FOR CONDENSATE CONTROL AS REQUIRED.

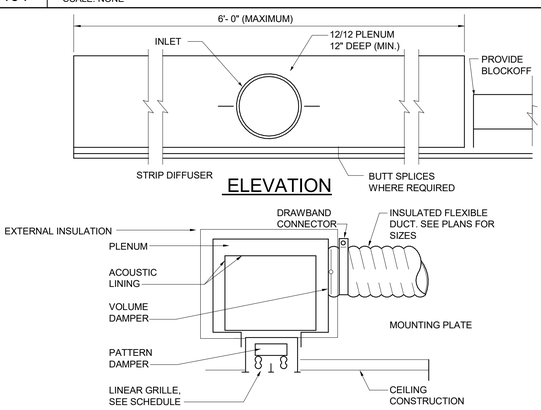
3	RTU CONDENSATE DRAIN DETAIL
M401	SCALE: NONE



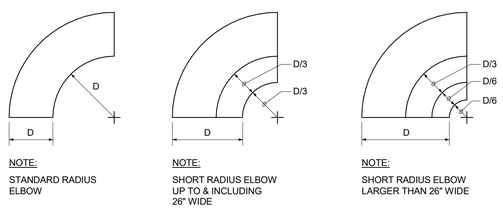
8	SHUTOFF VARIABLE VOLUME BOX DETAIL
M401	SCALE: NONE



5	SUPPLY AIR SPLITTER DAMPER DETAIL
M401	SCALE: NONE



2	STRIP DIFFUSER DETAIL (SUPPLY)
M401	SCALE: NONE

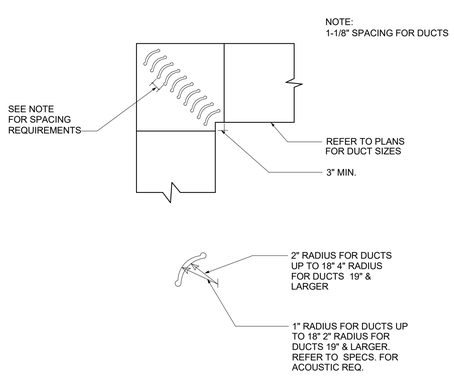


NOTE: STANDARD RADIUS ELBOW

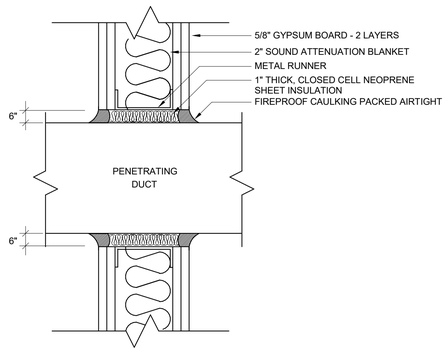
NOTE: SHORT RADIUS ELBOW UP TO & INCLUDING 26" WIDE

NOTE: SHORT RADIUS ELBOW LARGER THAN 26" WIDE

7	RADIUS ELBOW TURNING VANE DETAIL
M401	SCALE: NONE



4	SQUARE ELBOW DETAIL
M401	SCALE: NONE



1	DUCT PENETRATION AT DRYWALL PARTITION
M401	SCALE: NONE

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

222.063

NOT FOR CONSTRUCTION

NOVANT HEALTH FAMILY MEDICAL CLINIC - PRINCESS PLACE DRIVE

3009 PRINCESS PLACE DRIVE

No.	Description	Date

100% DESIGN DEVELOPMENT

MECHANICAL DETAILS

ISSUE DATE 12/20/2022
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BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - Mech.rvt

SEQUENCES OF OPERATION

ROOFTOP UNIT

ROOFTOP UNIT SHALL BE PROVIDED WITH SUPPLY AIR TEMPERATURE SENSOR IN THE LEAVING AIR DUCT, A VAV CONTROLLER AND A MASTER ENERGY CONTROLLER. A 24 VOLT DC REGULATED POWER SUPPLY SHALL BE PROVIDED TO THE VAV CONTROLLER. A CONTINUOUS SIGNAL FROM 1 TO 16 VOLTS IS RETURNED TO THE MASTER ENERGY CONTROLLER BY THE TRANSMITTER. THIS SIGNAL SEQUENCES THE STAGES OF MECHANICAL COOLING, ELECTRIC REHEAT COIL AND MODULATES THE ECONOMIZER IN RESPONSE TO THE SUPPLY AIR TEMPERATURE DEVIATION FROM SET POINT. A STATIC PRESSURE SENSOR LOCATED IN THE SUPPLY AIR DUCT SHALL CAUSE THE FAN SPEED TO MODULATE TO MAINTAIN SET POINT. IN ADDITION, AN OUTDOOR AIR TEMPERATURE SENSOR SHALL PROVIDE CONTINUOUS INPUT TO THE VAV CONTROLLER. THE VAV CONTROLLER WILL RESET THE ALLOWABLE LEAVING SUPPLY AIR SET POINT OF 55°F UP 2°F FOR EVERY 5°F DROP IN OUTDOOR AIR TEMPERATURE FROM 70°F TO 45°F. IF TWO OR MORE TERMINAL UNITS DEMAND COOLING WHILE THE LEAVING AIR TEMPERATURE IS RESET ABOVE 55°F, THE UNIT SHALL RETURN THE LEAVING AIR TEMPERATURE BACK TO 55°F UNTIL EACH ZONE IS SATISFIED.

THE VAV CONTROLLER SHALL PROVIDE ANTI SHORT CYCLE PROTECTION BY PROVIDING FIVE MINUTE TIME DELAY BETWEEN SUCCEEDING ON AND OFF STAGES.

ON A CALL FOR COOLING WITH THE OUTDOOR AIR TEMPERATURE BELOW THE SUPPLY AIR SET POINT, THE FIRST STAGE OF MECHANICAL COOLING WILL BE LOCKED OUT FOR A PERIOD OF 10 MINUTES TO ALLOW THE ECONOMIZER TO SATISFY THE LOAD. IF THE OUTDOOR AIR TEMPERATURE IS HIGHER THAN THE SET POINT, THE FIRST STAGE OF COOLING WILL BE ALLOWED TO START IMMEDIATELY.

DURING ECONOMIZER OPERATION, THE LOW LIMIT FUNCTION WILL BEGIN TO MODULATE THE OUTDOOR AIR DAMPERS OPEN AT 62°F. THE VAV CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN A LEAVING AIR TEMPERATURE OF NO LESS THAN 50°F. THE DAMPERS WILL RETURN TO A MINIMUM POSITION IF THE DISCHARGE TEMPERATURE DROPS BELOW 50°F. IF THE LEAVING AIR TEMPERATURE DROPS BELOW THIS SUPPLY AIR SET POINT, THE ECONOMIZER LOW LIMIT FUNCTION IS DISABLED IN ORDER TO CYCLE OFF MECHANICAL COOLING MORE RAPIDLY. THE LOW LIMIT FUNCTION IS DISABLED WHEN THE ECONOMIZER ALONE CAN SATISFY THE LOAD.

AT OUTDOOR AIR CONDITIONS ABOVE THE ENTHALPY CONTROL SETTING, MECHANICAL COOLING IS USED AND THE OUTDOOR AIR DAMPERS REMAIN AT MINIMUM AIR FLOW POSITION.

IF THE HUMIDITY LEVEL IN THE SPACE RISES ABOVE 60%RH AT ANY TIME, THE OUTDOOR AIR DAMPERS SHALL CLOSE TO THE MINIMUM OUTSIDE AIR POSITION AND THE LEAVING AIR TEMPERATURE SHALL BE RESET TO 50°F. THE TERMINAL UNITS SHALL MAINTAIN SPACE TEMPERATURES UNTIL THE RELATIVE HUMIDITY IN THE SPACE DROPS BELOW 55%RH AS DETECTED BY THE RETURN AIR DUCT HUMIDITY SENSOR.

THE EXHAUST AIR FANS WILL FUNCTION TO MAINTAIN A CONSTANT POSITIVE BUILDING PRESSURE BALANCE OF 0.05" AND A MINIMUM OUTDOOR AIR FLOW RATE ACCORDING TO CO2 LEVEL SENSOR MOUNTED IN THE COMMON RETURN TO EACH ROOFTOP UNIT RETURN AIR DUCT WHEN NOT IN THE ECONOMIZER MODE.. FANS SHALL BE INTERLOCKED WITH THE OPERATION OF RTU-1.

CO2 LEVEL SENSORS IN THE RETURN AIR DUCT OF EACH ROOFTOP UNIT SHALL CONTROL THE OUTSIDE AIR DAMPER TO A MINIMUM UNTIL SUCH TIME AS THE CO2 LEVEL DETECTED EXCEEDS 500 PPM ABOVE THE OUTDOOR LEVEL. WHEN THIS LEVEL IS EXCEEDED THE MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE OPEN IN 25% INCREMENTS ONCE EVERY 15 MINUTES UNTIL THE CO2 LEVEL IS DECREASED BELOW THE SETPOINT.

MORNING WARM UP -

IF, AT THE SCHEDULED START TIME OR OPTIMUM START TIME, THE RETURN AIR TEMPERATURE FROM THE SPACES IS BELOW 70°F (ADJ.), THE MORNING WARM UP CYCLE SHALL BE ENGAGED.

THE RTU SHALL ENERGIZE AND RUN IN HEATING MODE. ONCE SPACE TEMPERATURE IS REACHED, THE FANS SHALL CONTINUE TO OPERATE AND THE HEAT MODE IS DISABLED.

WHEN ON THE MORNING WARM UP CYCLE, THE COLD DECK DAMPERS OF THE VAV UNITS SHALL CYCLE OPEN TO DISCHARGE WARM AIR INTO THE VARIOUS SPACES. WHEN THE MORNING WARM UP CYCLE FOR THE AHU IS SATISFIED AND DISENGAGED, THE VAV UNITS SHALL RETURN TO NORMAL OPERATION.

WHEN THE BUILDING RETURN AIR DUCT TEMPERATURE RISES TO 70°F (ADJ.), THE UNIT OPERATION SHALL AUTOMATICALLY SWITCH TO NORMAL OPERATION, EITHER COOLING BY ECONOMIZER CYCLE OR D-X COOLING.

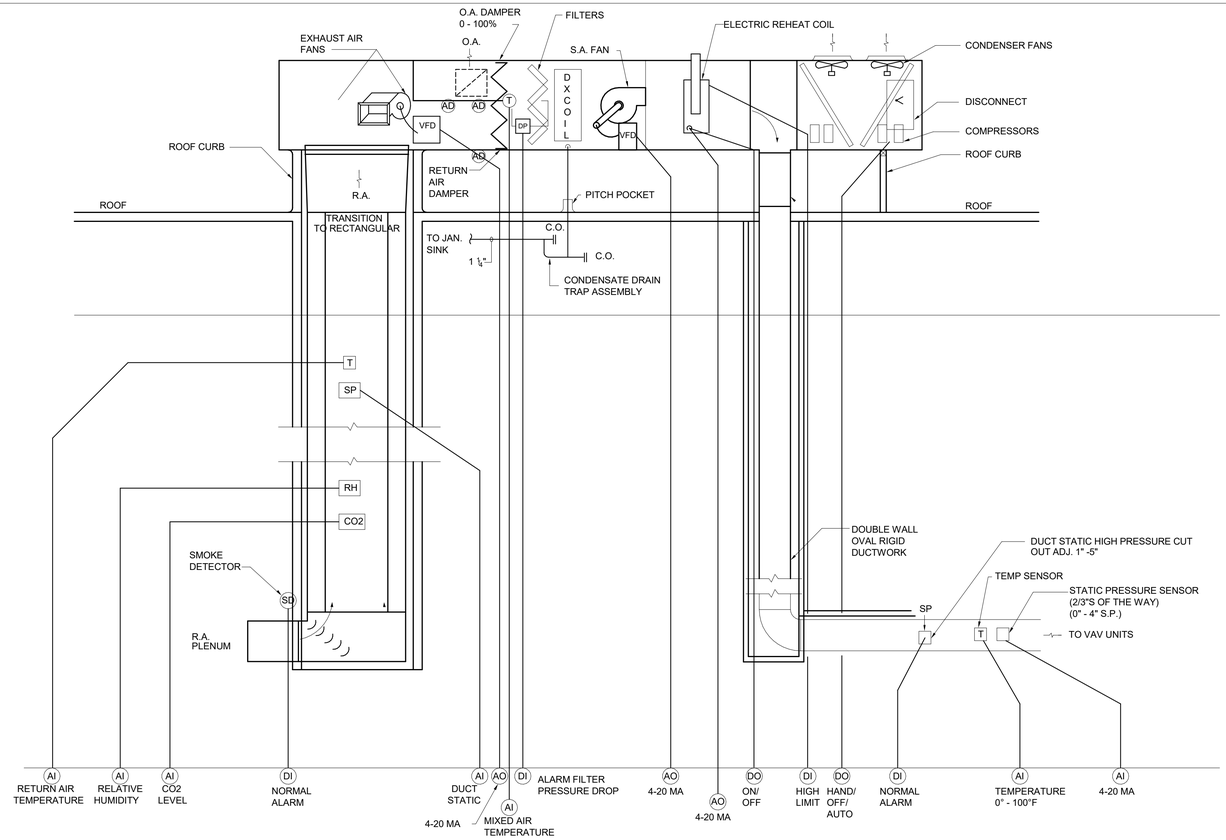
DURING MORNING WARM UP CYCLE, THE O.A. DAMPER SHALL BE CLOSED TO ITS MINIMUM AIR FLOW POSITION.

THE UNITS SHALL BE OPERATED THROUGH THE 7-DAY TIME PROGRAM. LOCATE THE CONTROL PANEL ON THE WALL IN AN OPEN AREA OF THE IT ROOM. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.

2 HOUR (ADJUSTABLE) ZONE OVERRIDE SWITCHES (SINGLE PUSH BUTTON WITH ENGRAVED LABEL) LOCATED CONVENIENTLY THROUGHOUT THE SPACE TO SERVE SPECIFIC ZONES AND THEIR RESPECTIVE ROOFTOP UNITS SHALL BE USED TO OPERATE THE UNITS DURING THE UNOCCUPIED PERIODS. THEY SHALL BE WALL MOUNTED IN LOCATIONS AS SHOWN ON THE FLOOR PLANS AND SHALL RETURN ALL TERMINAL UNITS WITHIN THE OUTLINED PERIMETERS TO THE OCCUPIED MODE FOR THIS PREPROGRAMMED PERIOD OF TIME.

A SMOKE DETECTOR LOCATED IN THE RETURN AIR DUCT SYSTEM SHALL DE-ENERGIZE THE UNIT AND ALL ASSOCIATED VAV OR FPU'S WHEN SMOKE IS DETECTED, AND SEND A SIGNAL TO A LOCAL AUDIBLE/VISUAL ALARM LOCATED AT THE NURSES STATION.]

PROVIDE A VISUAL AND AUDIBLE ALARM AT THE RECEPTION DESK AND AT THE CENTRAL NURSE STATION. IF THE DUCT SMOKE DETECTOR MEASURES SMOKE, THE ALARM SHALL ENERGIZE. PROVIDE LABEL ON ALARMS TO INDICATE IT IS TIED INTO THE ROOF TOP UNIT SMOKE DETECTOR.

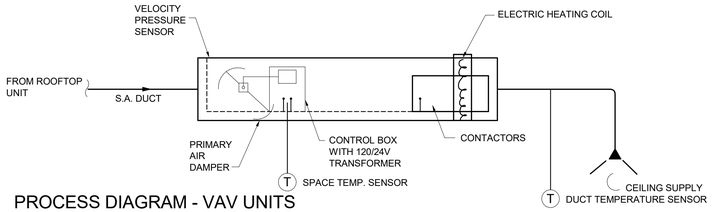


PROCESS DIAGRAM - ROOFTOP A/C UNIT

NTS

POINT LIST

| | HARDWARE | | | | | | | | | | | | | | | | SOFTWARE | | | | | | | | | | | | | | | |



PROCESS DIAGRAM - VAV UNITS

SEQUENCES OF OPERATION

THROTTLING: A ROOM TEMPERATURE SENSOR SHALL MODULATE OPEN THE UNIT'S PRIMARY AIR DAMPER. UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT, THE VAV BOX DAMPER SHALL OPEN TO ITS MAXIMUM COOLING SETPOINT. ONCE COOLING SETPOINT HAS BEEN REACHED, THE DAMPER SHALL CLOSE DOWN TO ITS COOLING MINIMUM AIRFLOW. DAMPER SHALL MODULATE TO MAINTAIN COOLING SETPOINT.

HEATING: A DROP IN SPACE TEMPERATURE SHALL CAUSE THE UNIT'S PRIMARY AIR DAMPER TO MODULATE CLOSED UNTIL THE SCHEDULED MINIMUM AIR FLOW RATE IS REACHED. IF THE SPACE TEMPERATURE CONTINUES TO DROP, THE UNIT'S ELECTRIC STAGED HEATING COILS SHALL BE ENERGIZED TO MAINTAIN ROOM SET POINT TEMPERATURE. ONCE HEATING SETPOINT AS BEEN REACHED, THE ELECTRIC COIL SHALL DE-ENERGIZE AND BOX SHALL RETURN TO ITS MINIMUM COOLING AIRFLOW. AN AIR FLOW PROVING SWITCH SHALL PROHIBIT HEATER OPERATION WHEN THERE IS LESS THAN ADEQUATE AIR FLOW. UNITS SHALL BE SHUT DOWN WHEN SMOKE DETECTORS ARE ACTIVATED.

COOLING SETPOINT SHALL BE 75 DEG F (ADJ). HEATING SETPOINT SHALL BE 70 DEG F (ADJ).

NIGHT SET-BACK: IF THE ROOFTOP AIR UNIT IS OFF THE PRIMARY AIR DAMPER SHALL BE AT ITS MINIMUM POSITION. IF THE SPACE TEMPERATURE DROPS TO 60 DEGREES F(ADJ) THE UNIT'S PRIMARY AIR DAMPER SHALL OPEN AND HEATER SHALL AUTOMATICALLY START TO MAINTAIN SPACE CONDITIONS. WHEN SPACE CONDITION IS SATISFIED, THE UNIT SHALL RETURN TO ITS NORMAL POSITION. ASSOCIATED RTU UNITS SHALL START WHEN ANY VAV UNIT ENTERS NIGHT SET-BACK MODE. WHEN ALL VAV UNITS RETURN TO NORMAL, THE RTU'S WILL RETURN TO SCHEDULED OPERATION.

A SEPARATE ROOM TEMPERATURE SHALL BE PROVIDED FOR EACH TERMINAL UNIT.

A SEPARATE DUCT TEMPERATURE SENSOR SHALL BE PROVIDED IN THE SUPPLY AIR DISCHARGE DUCT 60" AWAY FROM THE DISCHARGE OF THE UNIT TO MONITOR BUT NOT CONTROL THE AIR TEMPERATURE.

POINT LIST

| | HARDWARE | | | | | | | | SOFTWARE | | | | | | | |

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH:GENERAL PURPOSE	46"	$
DIMMER SWITCH	46"	$D
THREE-WAY SWITCH	46"	$3
FOUR-WAY SWITCH	46"	$4
KEYED SWITCH	46"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$OS,$VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
PHOTO-CELL AS NOTED	AS NOTED	PC
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)		ER
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J, HJ
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS.	2'-2"	WP
ELECTRIC WATER COOLER/ BOTTLE FILLER RECEPTACLE: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET(S) BEHIND COOLER, PROVIDE MULTIPLE RECEPTACLES WHERE REQUIRED BY MANUFACTURER. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT(S) BEING PROVIDED FOR THE WATER COOLER/ BOTTLE FILLER FOR PROTECTION OF RECEPTACLE(S)		EWC
GROUND FAULT PROTECTED DUPLEX WITH SLASH THROUGH DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		
FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES	1'-6"	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
WALL MOUNT FIXTURE		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM BATTERIES/ INVERTER(S)		
LIGHTING FIXTURE DESIGNATION		FIXTURE SWITCH FIXTURE TYPE
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS; HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND PHASE NEUTRAL
DISCONNECT SWITCH	5'-0"	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES. POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL.	46"	DB
DOORBELL AUDIO/VISUAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OWNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
INDICATES EMERGENCY POWER		E,EM
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	GEN-A
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	T

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
SPECIAL OUTLETS		
FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, RACO #6255 WITH #6249 COVER OR APPROVED EQUAL. COORDINATE FINISH WITH ARCHITECT.	FLOOR	
FIRE RATED POKE-THRU FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION		AV
SURFACE WIRE-MOLD (WIREMOLD #3000 SERIES; DEVICES SHALL BE MOUNTED EVERY 12" OR APPROVED EQUAL)		
TELEVISION		
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
SECURITY ACCESS CONTROL		
DOOR ALARM/POSITION SWITCH	DOOR FRAME	DA
MAGNETIC LOCK(S)	ABV DOOR	ML
DOOR POWER SUPPLY	ABV CLG	DS
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	DP
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNT	46"	CR M
MOTION SENSOR DOOR CONTROL	CEIL.	MS
PUSH-TO-EXIT BUTTON	46"	PE
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC-A
REMOTE DOOR RELEASE		RR
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D/#V
RF TRACKER ANTENNA	CLG	
TELEMETRY ANTENNA	CLG	PAY
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT. #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN).		
WIRELESS ACCESS POINT WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE FOR APPLICATION SHOWN. COORDINATE WITH OWNER MOUNTING HEIGHT. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS. WAP'S ARE OWNER-FURNISHED, OWNER-INSTALLED. NEMA 3R - DEVICE/ ENCLOSURE RATED FOR EXTERIOR APPLICATION(S).		WAP

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E001	ELECTRICAL LEGEND & GENERAL NOTES
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL FIRST FLOOR PLAN - LIGHTING
E201	ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS
E301	ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS
E302	ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS
E500	ELECTRICAL RISER DIAGRAM & SCHEDULES
E501	ELECTRICAL PANEL SCHEDULES
E600	ELECTRICAL DETAILS
E601	ELECTRICAL DETAILS

GENERAL NOTES (LEGEND):

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.

D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.

J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

K. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.

M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

O. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

Y. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.

Z. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

AA. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.

BB. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.

CC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

DD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

EE. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

FF. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.

GG. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

HH. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

II. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.

JJ. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

KK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.

LL. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

MM. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

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NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

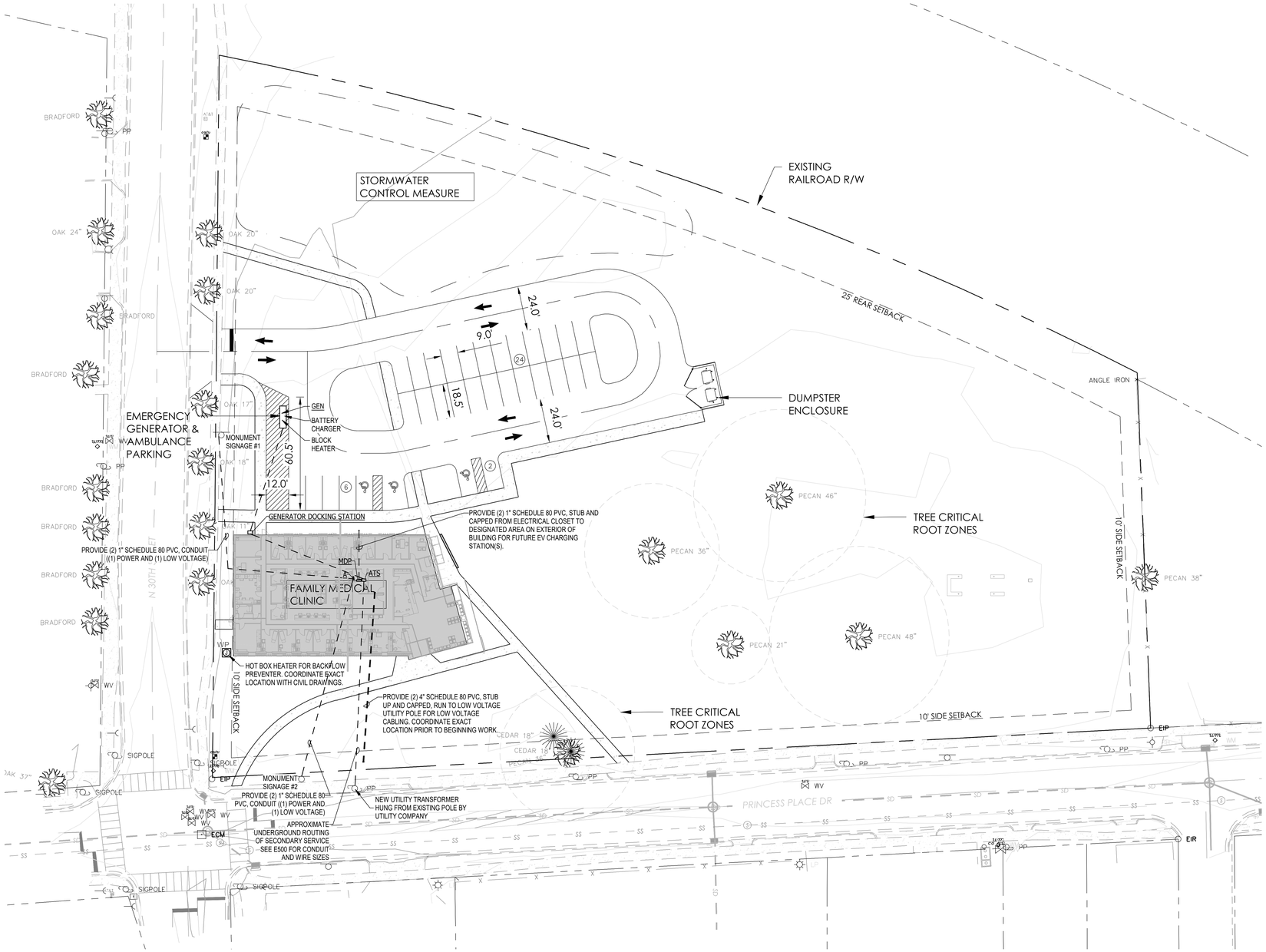
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ELECTRICAL LEGEND & GENERAL NOTES

ISSUE DATE 12/20/2022
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1 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

GENERAL NOTES (SITE):

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.

H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

J. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

K. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 DANIEL A. BOLAND

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Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

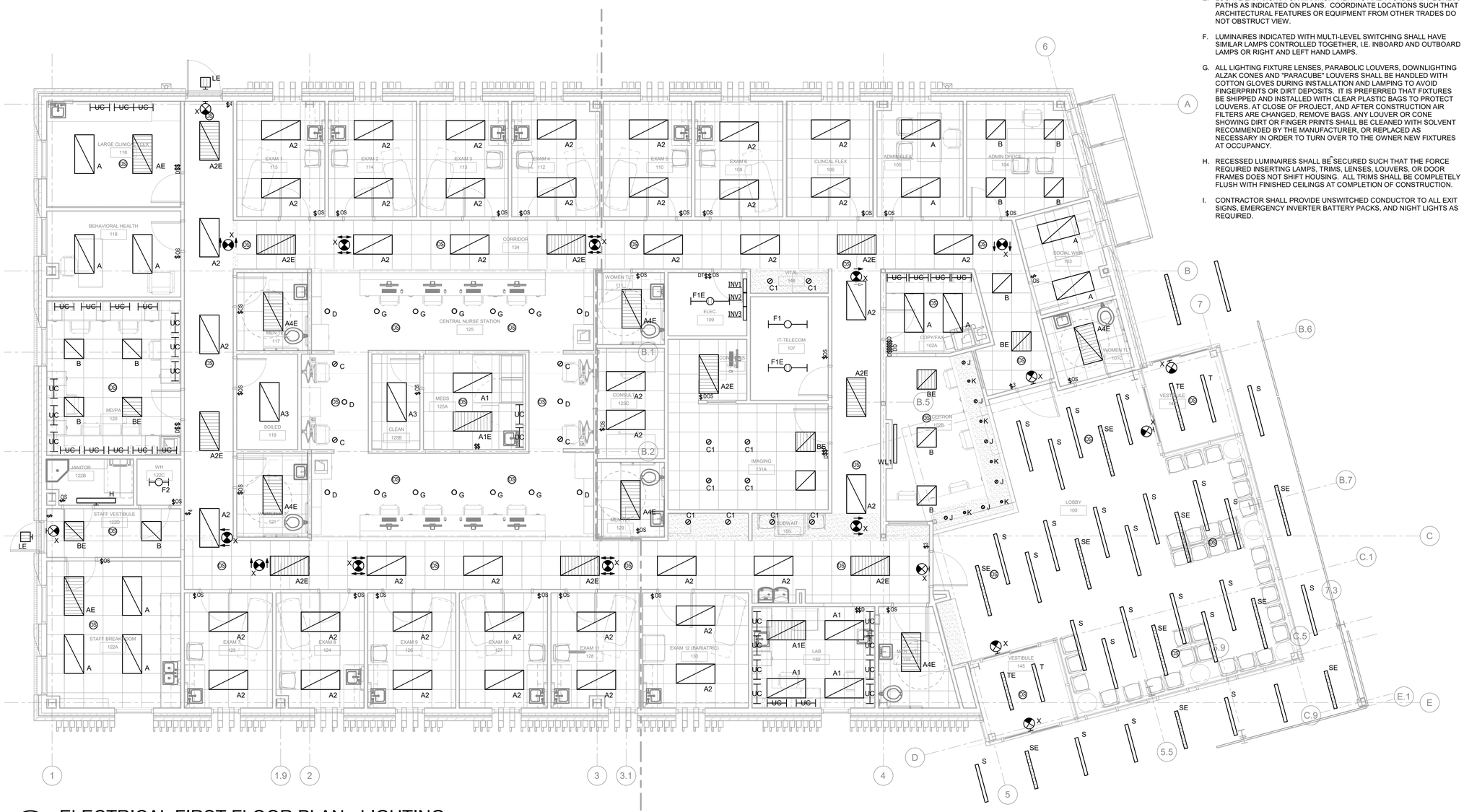
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ELECTRICAL SITE PLAN

ISSUE DATE 12/20/2022
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1 ELECTRICAL FIRST FLOOR PLAN - LIGHTING

SCALE: 3/16" = 1'-0"

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

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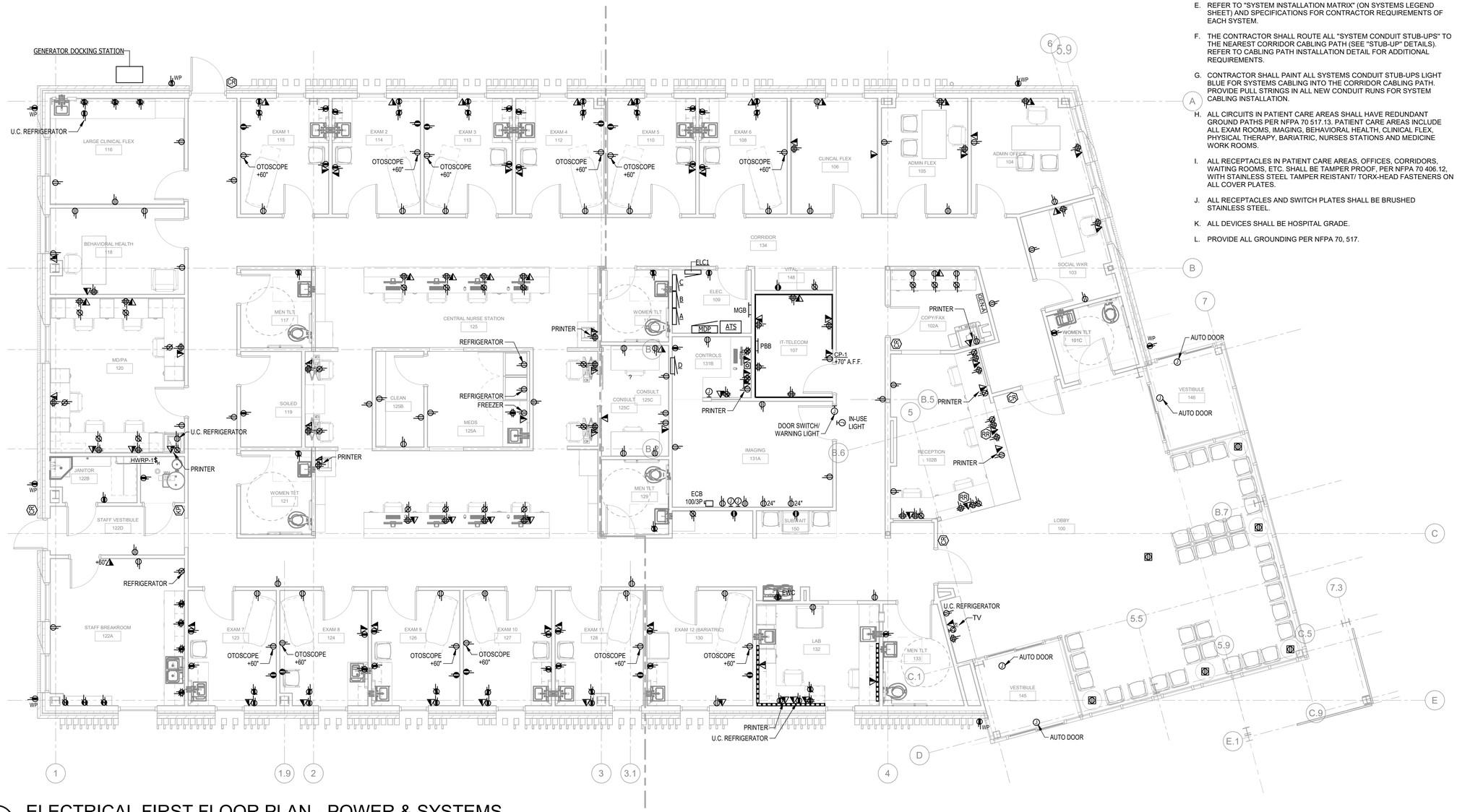
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ELECTRICAL FIRST FLOOR PLAN - LIGHTING

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1 ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS

SCALE: 3/16" = 1'-0"

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

E. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

F. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

G. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

H. ALL CIRCUITS IN PATIENT CARE AREAS SHALL HAVE REDUNDANT GROUND PATHS PER NFPA 70 517.13. PATIENT CARE AREAS INCLUDE ALL EXAM ROOMS, IMAGING, BEHAVIORAL HEALTH, CLINICAL FLEX, PHYSICAL THERAPY, BARIATRIC, NURSES STATIONS AND MEDICINE WORK ROOMS.

I. ALL RECEPTACLES IN PATIENT CARE AREAS, OFFICES, CORRIDORS, WAITING ROOMS, ETC. SHALL BE TAMPER PROOF, PER NFPA 70 406.12, WITH STAINLESS STEEL TAMPER REISTANT/ TORX-HEAD FASTENERS ON ALL COVER PLATES.

J. ALL RECEPTACLES AND SWITCH PLATES SHALL BE BRUSHED STAINLESS STEEL.

K. ALL DEVICES SHALL BE HOSPITAL GRADE.

L. PROVIDE ALL GROUNDING PER NFPA 70, 517.

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NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

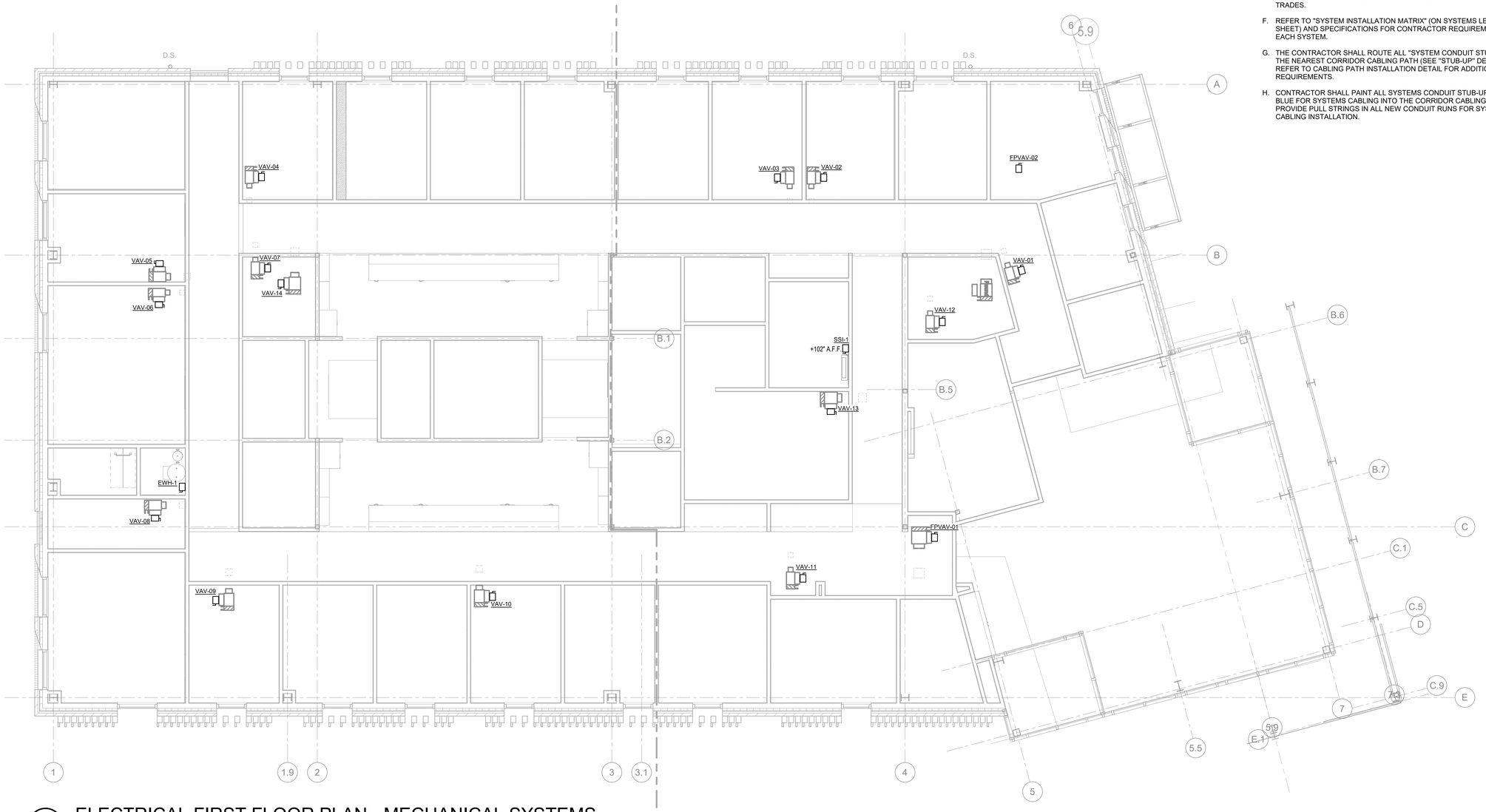
100% DESIGN DEVELOPMENT

ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS

ISSUE DATE 12/20/2022
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PROJECT NUMBER 21-010

E201

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BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - ELEC.rvt



1 ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS

SCALE: 3/16" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

H. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

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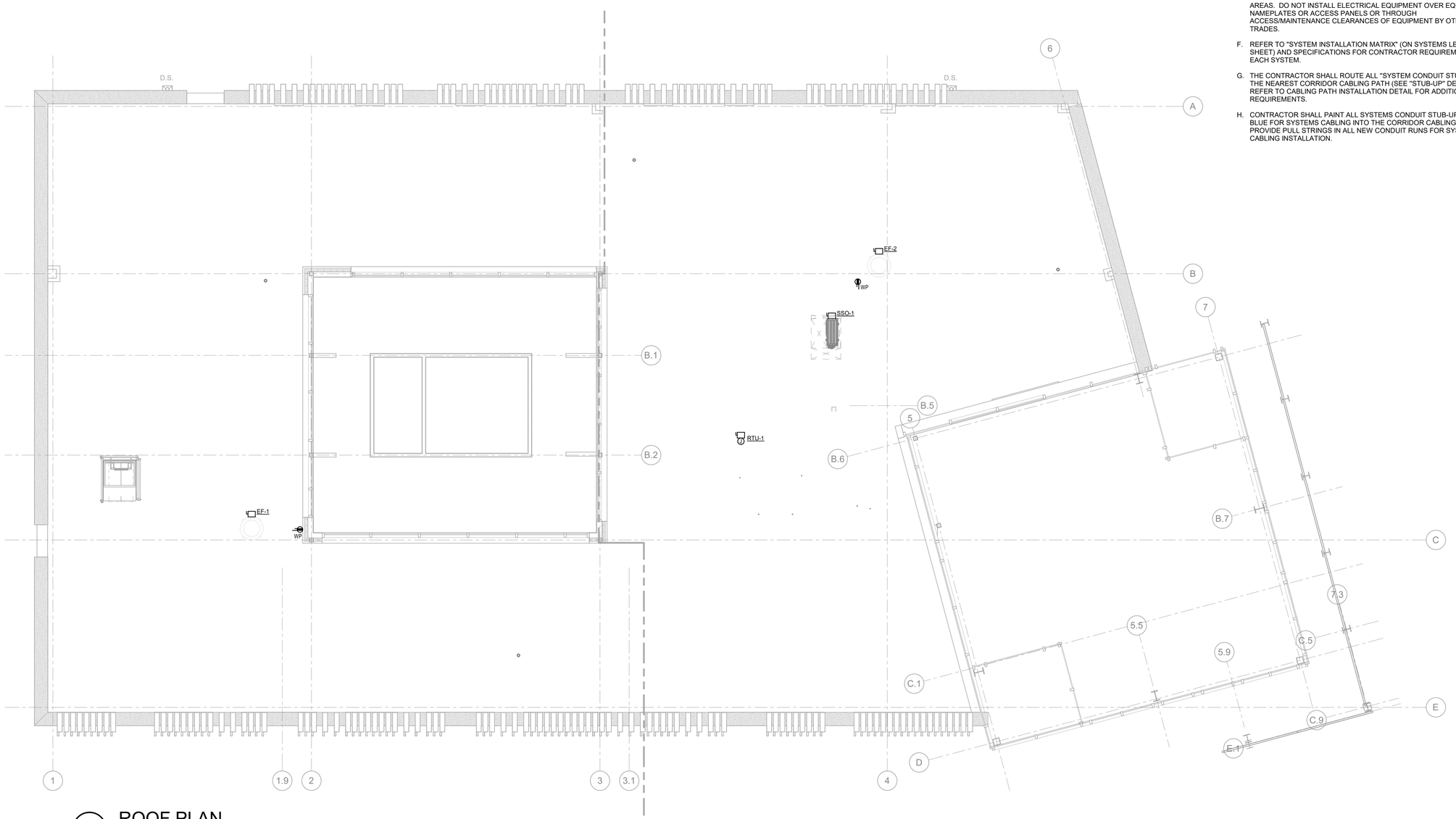
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ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS

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1 ROOF PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES (POWER/SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

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D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

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F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

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ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS

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LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40LWG-ED	YES	RECESSED	LED / 4000	4617	32	120	
A1	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40MLG-EDU	YES	RECESSED	LED / 4000	5026	36	120	
A1E	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40MLG-EDU-ELL14	YES	RECESSED	LED / 4000	5026	36	120	
A2	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40HLG-EDU	YES	RECESSED	LED / 4000	5786	40	120	
A2E	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #LCAT24-40HLG-EDU	YES	RECESSED	LED / 4000	5786	40	120	
A3	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED.	COLUMBIA #SRP24-40HLHE-G-EDU	YES	RECESSED	LED / 4000	5902	42	120	
A4E	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40VLG-EDU-ELL14	YES	RECESSED	LED / 4000	7440	53	120	
AE	2X4 TROFFER. 20-GUAGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTEE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROSTED SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT24-40LWG-EDU-ELL14	YES	RECESSED	LED / 4000	3730	45	120	
B	2X2 TROFFER. 20-GAUGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROST SHIELDING. UL LISTED.	COLUMBIA #LCAT22-40MWG-EDU	YES	RECESSED	LED / 4000	1860	24	120	
BE	2X2 TROFFER. 20-GAUGE COLD ROLLED, STEEL HOUSING, HIGH REFLECTANCE MATTE WHITE FINISH, NORMAL OUTPUT, ROUNDED CLEAR FROST SHIELDING. UL LISTED. BATTERY BACKUP.	COLUMBIA #LCAT22-40MWG-EDU-ELL14	YES	RECESSED	LED / 4000	2253	16	120	
C	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-6RD-H-ML25L-DM1/LTR-6RD-T-ML40K8MD-SS	YES	RECESSED	LED / 4000	2612	30	120	
C1	6" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-6RD-H-SL10L-DM1/LTR-6RD-T-ML40K8WD-SS	YES	RECESSED	LED / 4000	1203.92	12	120	
D	PENDANT MOUNTED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	ALW #I6RT-N-1-V-138340W-30834051NN-FINISH-RS-FINISH	YES	PENDANT	LED / 4000	3077	30	120	BOTTOM OF FIXTURE SHALL BE FLUSH WITH CEILING BAFFLES.
F1	4' PENDANT STRIP FIXTURE.	COLUMBIA #LCL4-50ML-EDU	YES	PENDANT	LED / 5000	5556	42	120	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
F1E	4' PENDANT STRIP FIXTURE. BATTERY BACKUP.	COLUMBIA #LCL4-50ML-EDU-ELL14	YES	PENDANT	LED / 5000	5556	42	120	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
F2	2' PENDANT STRIP FIXTURE.	COLUMBIA #LCL2-50ML-EDU	YES	PENDANT	LED / 5000	2925	24	120	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
G	6" PENDANT MOUNTED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	ALW #I6RT-N-1-V-MOD-30834051NN-FINISH-RS-FINISH-DOWNLIGHT ONLY	YES	PENDANT	LED / 4000	3077	30	120	BOTTOM OF FIXTURE SHALL BE FLUSH WITH CEILING BAFFLES.
H	4' WALL MOUNTED FIXTURE.	COLUMBIA #ESL-4-4000-MW-FA-W-ED-U	YES	SURFACE/WALL	LED / 4000	3702	30	120	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
J	3" RECESSED CAN LIGHT FIXTURE. SELF-FLANGED, CLEAR APEREATURE/ TRIM COLOR, MATTE-DIFFUSE FINISH, MEDIUM WIDE DISTRIBUTION. UL LISTED.	PRESCOLITE #LTR-3RD-H-SL15L-DM1/LTR-3RD-T-SL40K8MD-SS	YES	RECESSED	LED / 4000	2612	30	120	
K	RETRO STYLE PENDANT WITH ETCHED ACRYLIC DIFFUSER.	WAC LIGHTING #PD-76908	YES	PENDANT	LED / 3000	674	7	120	MOUNT AT 7'-0" TO BOTTOM OF FIXTURE. COORDINATE FINISH WITH ARCHITECT.
LE	LOW PROFILE EMERGENCY LED FIXTURE	SIGNTEX #MUE-BB-10-[HOUSING COLOR BY ARCHITECT]-W	YES	WALL	LED / 4000	445	10	120	DOOR FRAMECOORDINATE FIXTURE MULLION MOUNTING WITH
S	RECESSED SLOT FIXTURE	ALW SUPERPLANE 4R	YES	RECESSED	LED / 4000	-		120	
SE	RECESSED SLOT FIXTURE	ALW SUPERPLANE 4R WITH BATTERY	YES	RECESSED	LED / 4000	-		120	
T	PENDANT SLOT FIXTURE	ALW SUPERPLANE SP4	YES	PENDANT	LED / 4000	-		120	
TE	PENDANT SLOT FIXTURE	ALW SUPERPLANE SP4 WITH BATTERY	YES	PENDANT	LED / 4000	-		120	
UC	UNDERCABINET FIXTURE	COLUMBIA #CUC*-CS-ED120	YES	SURFACE	LED / 4000	740	13	120	
WL1	RECESSED WALL WASHER	COLUMBIA #CWW4-40VW-1WW-EDU	YES	RECESSED	LED / 4000	3389	16	120	
X	EDGE-LIT EXIT SIGN WITH RED LETTERS	COMPASS #CELS(1/2)RNE	YES	SURFACE	-	--	5	120	SEE DRAWINGS FOR ARROWS.

GENERAL NOTES (LUMINAIRE SCHEDULE):

A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.

B. WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER/ HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.

C. PROVIDE BALLASTS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS. WHERE A SINGLE FIXTURE IS POWERED FROM NORMAL AND EMERGENCY POWER, HALF OF THE LAMPS WITH A MINIMUM OF TWO LAMPS SHALL BE ON EMERGENCY POWER.

D. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.

E. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.

F. EXIT SIGNS AND FIXTURES THAT ARE HATCHED OR WHERE THE FIXTURE TYPE CONTAINS THE SUFFIX "E" FOR EMERGENCY OPERATION SHALL HAVE AN INTEGRAL 90 MINUTE BATTERY INVERTER IF NOT POWERED FROM AN EMERGENCY GENERATOR.

G. ALL BATTERY POWERED FIXTURES SHALL HAVE TEST SWITCHES FACTORY INSTALLED INTEGRAL TO THE REFLECTOR, REMOTE TEST SWITCHES WILL NOT BE ACCEPTED.

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE

METHOD OF COMPLIANCE

ENERGY CODE ☐ PERFORMANCE ☒ PRESCRIPTIVE
ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESCRIPTIVE

LIGHTING SCHEDULE:

LAMP TYPE REQUIRED IN FIXTURE ..SEE FIXTURE SCHEDULE
NUMBER OF LAMPS IN FIXTURE ..SEE FIXTURE SCHEDULE
BALLAST TYPE USED IN THE FIXTURE ..SEE FIXTURE SCHEDULE
NUMBER OF BALLAST IN FIXTURE ..SEE FIXTURE SCHEDULE
TOTAL WATTAGE PER FIXTURE ..SEE FIXTURE SCHEDULE
TOTAL INTERIOR WATTAGE SPEC'D VS. ALLOWED ___-___ vs. ___-___
☐ WHOLE BUILDING ☒ SPACE BY SPACE
TOTAL EXTERIOR WATTAGE SPEC'D VS. ALLOWED ___-___ vs. ___-___

ADDITIONAL EFFICIENCY PACKAGE OPTIONS

(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
☒ C406.3 REDUCED LIGHTING POWER DENSITY
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ C406.5 ON-SITE RENEWABLE ENERGY
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NORTH CAROLINA ENERGY CODE.

SERVICE GROUND CONDUCTOR SCHEDULE

SYMBOL	CONDUCTORS & CONDUIT
60 SG	1 #8 G, 3/4"C
100 SG	1 #8 G, 3/4"C
150 SG	1 #6 G, 3/4"C
200 SG	1 #4 G, 3/4"C
300 SG	1 #2 G, 3/4"C
400 SG	1 #1/0 G, 3/4"C
600 SG	1 #2/0 G, 3/4"C
800 SG	1 #2/0 G, 3/4"C
1000 SG	1 #3/0 G, 3/4"C

BRANCH CIRCUIT AND FEEDER SCHEDULE

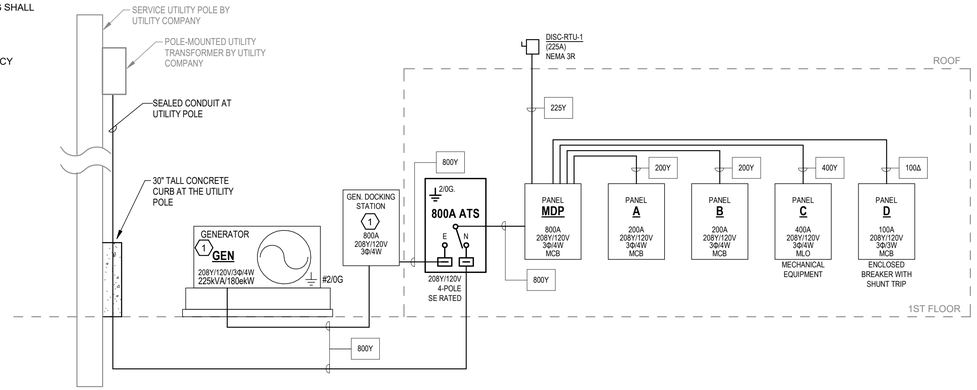
NOTE: ALL CONDUCTORS ARE COPPER, THWN/THHN.

3-PHASE CIRCUITS (NO NEUTRAL) + GROUNDING

SYMBOL	MINIMUM SIZE CONDUCTORS & CONDUIT
20 △	3 #12, 1 #12 G, 3/4"C
30 △	3 #10, 1 #10 G, 3/4"C
50 △	3 #8, 1 #10 G, 3/4"C
60 △	3 #6, 1 #10 G, 3/4"C
80 △	3 #4, 1 #8 G, 1"C
100 △	3 #2, 1 #6 G, 1 1/4"C
125 △	3 #1, 1 #6 G, 1 1/2"C
150 △	3 #1/0, 1 #6 G, 1 1/2"C
175 △	3 #2/0, 1 #6 G, 1 1/2"C
200 △	3 #3/0, 1 #6 G, 2"C
225 △	3 #4/0, 1 #4 G, 2"C
250 △	3-250 MCM, 1 #4 G, 2"C
300 △	3-350 MCM, 1 #4 G, 2 1/2"C
400 △	2(3 #3/0, 1 #2G, 2"C)
500 △	2(3-250 MCM, 1 #2 G, 2 1/2"C)
600 △	2(3-350 MCM, 1 #1 G, 2 1/2"C)
700 △	2(3-500 MCM, 1 1/0 G, 3"C)
800 △	3(3-300 MCM, 1 1/0 G, 2 1/2"C)
1000 △	3(3-500 MCM, 1 #2/0 G, 3"C)
1200 △	4(3-350 MCM, 1 #3/0 G, 3"C)

3-PHASE + NEUTRAL + GROUND

SYMBOL	MINIMUM SIZE CONDUCTORS & CONDUIT
20 Y	4 #12, 1 #12 G, 3/4"C
30 Y	4 #10, 1 #10 G, 3/4"C
50 Y	4 #8, 1 #10 G, 1"C
60 Y	4 #6, 1 #10 G, 1"C
80 Y	4 #4, 1 #8 G, 1 1/4"C
100 Y	4 #2, 1 #6 G, 1 1/2"C
125 Y	4 #1, 1 #6 G, 1 1/2"C
150 Y	4 #1/0, 1 #6 G, 2"C
175 Y	4 #2/0, 1 #4 G, 2"C
200 Y	4 #3/0, 1 #6 G, 2"C
225 Y	4 #4/0, 1 #4 G, 2 1/2"C
250 Y	4-250 MCM, 1 #2 G, 2 1/2"C
300 Y	4-350 MCM, 1 #2 G, 3"C
400 Y	2(4 #3/0,1 #2 G, 2"C)
500 Y	2(4-250 MCM, 1 #2 G, 2 1/2"C)
600 Y	2(4-350 MCM, 1 #2/0 G, 3"C)
800 Y	3(4-300 MCM, 1 #2/0 G, 3"C)
1000 Y	3(4-500 MCM, 1 #2/0 G, 3 1/2"C)
1200 Y	4(4-350 MCM, 1 #3/0 G, 3"C)
1600 Y	5(3-400 MCM, 1 #4/0 N, 1 #4/0 G, 3"C)
2000 Y	6(3-400 MCM, 1-250 MCM N, 1-250 MCM G, 3 1/2"C)



1 ELECTRICAL RISER DIAGRAM

NO SCALE

KEYED NOTE(S):

1. PROVIDE TEMPORARY DOCKING STATION UNIT AS BASED BID (2/E100). PROVIDE SEPARATE LINE ITEM PRICING FOR CONDUITS, DOCKING STATION (3/E100) AND PERMANENT DIESEL GENERATOR WITH BELLY TANK AND HIGHLY CORROSION RESISTANT ENCLOSURE (ENCLOSURE RECOMMENDED FOR COASTAL REGIONS).

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ELECTRICAL RISER DIAGRAM & SCHEDULES

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PANELBOARD AND WIRING SCHEDULE

PANEL: MDP | **MAINS TYPE:** MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 800 A | **MOUNTING:** SURFACE | **LOCATION:** ELEC. 109
SUPPLY FROM:

NOTE	CIRCUIT DESCRIPTION	WIRE	GND	C	**	OCP	P	C...	A	B	C	C...	P	OCP	**	C	GND	WIRE	CIRCUIT DESCRIPTION	NOTE
								1	0.0 0.0			2								
	PANEL "A"	SEE	RISE R	DIAG R	AM	200	3	3		0.0 0.0		4	3	200	SEE	RISER	DIAG	RAM	PANEL "B"	
								5			0.0 0.0	6								
								7	0.0 0.0			8	2	100	SEE	RISER	DIAG	RAM	PANEL "D"	
	PANEL "C"	SEE	RISE R	DIAG R	AM	400	3	9		0.0 0.0		10								
								11			0.0 0.0	12								
								13	0.0 0.0			14	3	100		--	--	--	SPARE	
	SPARE	--	--	--		225	3	15		0.0 0.0		16								
								17			0.0 0.0	18								
	SPARE	--	--	--		20	1	19	0.0 0.0			20	3	30		--	--	--	SPARE	
	SPARE	--	--	--		20	1	21		0.0 0.0		22								
	SPARE	--	--	--		20	1	23			0.0 0.0	24	1	20		--	--	--	SPARE	
	SPARE	--	--	--		40	2	25	0.0 0.0			26								
								27		0.0 0.0		28	2	40		--	--	--	SPARE	
	SPACE	--	--	--	--	--	1	29			-- --	30	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	31	-- --			32	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	33		-- --		34	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	35			-- --	36	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	37	-- --			38	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	39		-- --		40	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	41			-- --	42	1	--	--	--	--	--	SPACE	
								TOTAL LOAD (kVA):	0.0 kVA	0.0 kVA	0.0 kVA									
								TOTAL CURRENT (A):	0 A	0 A	0 A									

**** BREAKER TYPE KEY:** BLANK = STANDARD; G3 = GROUND FAULT 30mA (EQUIPMENT); GF = GROUND FAULT 5mA (PERSONNEL);
AF = ARC FAULT; ST = SHUNT TRIP; LC = LOCKING CLIP; LR = LOCKING CLIP & RED HANDLE (FIRE ALARM)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
				TOTAL CONNECTED LOAD: 0 VA
				TOTAL ESTIMATED DEMAND: 0 VA
				TOTAL CONNECTED CURRENT: 0 A
				TOTAL ESTIMATED DEMAND CURRENT: 0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.

PANELBOARD AND WIRING SCHEDULE

PANEL: B | **MAINS TYPE:** MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 200 A | **MOUNTING:** SURFACE | **LOCATION:** ELEC. 109
SUPPLY FROM: MDP

NOTE	CIRCUIT DESCRIPTION	WIRE	GND	C	**	OCP	P	C...	A	B	C	C...	P	OCP	**	C	GND	WIRE	CIRCUIT DESCRIPTION	NOTE
	SPARE	--	--	--		20	1	1	0.0 0.0			2	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	3		0.0 0.0		4	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	5			0.0 0.0	6	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	7	0.0 0.0			8	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	9		0.0 0.0		10	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	11			0.0 0.0	12	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	13	0.0 0.0			14	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	15		0.0 0.0		16	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	17			0.0 0.0	18	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	19	0.0 0.0			20	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	21		0.0 0.0		22	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	23			0.0 0.0	24	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	25	0.0 0.0			26	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	27		0.0 0.0		28	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	29			0.0 0.0	30	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	31	0.0 0.0			32	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	33		0.0 0.0		34	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	35			0.0 0.0	36	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	37	0.0 0.0			38	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	39		0.0 0.0		40	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	41			0.0 0.0	42	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	43	0.0 0.0			44	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	45		0.0 0.0		46	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	47			0.0 0.0	48	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	49	0.0 0.0			50	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	51		0.0 0.0		52	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	53			0.0 0.0	54	1	20		--	--	--	SPARE	
								TOTAL LOAD (kVA):	0.0 kVA	0.0 kVA	0.0 kVA									
								TOTAL CURRENT (A):	0 A	0 A	0 A									

**** BREAKER TYPE KEY:** BLANK = STANDARD; G3 = GROUND FAULT 30mA (EQUIPMENT); GF = GROUND FAULT 5mA (PERSONNEL);
AF = ARC FAULT; ST = SHUNT TRIP; LC = LOCKING CLIP; LR = LOCKING CLIP & RED HANDLE (FIRE ALARM)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
				TOTAL CONNECTED LOAD: 0 VA
				TOTAL ESTIMATED DEMAND: 0 VA
				TOTAL CONNECTED CURRENT: 0 A
				TOTAL ESTIMATED DEMAND CURRENT: 0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.

EQUIPMENT CONNECTION SCHEDULE

EQUIP ID	DESCRIPTION	DISCONNECT MEANS	VOLTAGE	POLES	HP	POWER (kVA)	MCA	FURNISHED BY	INSTALLED BY
CP-1	CONDENSATE PUMP	20A MOTOR RATED TOGGLE SWITCH	120	1	-	0.18	1.875		
EF-1	EXHAUST FAN	20A MOTOR RATED TOGGLE SWITCH	120	1	1/4	0.70	6.25		
EF-2	EXHAUST FAN	20A MOTOR RATED TOGGLE SWITCH	120	1	1/4	0.70	6.25		
EWH-1	ELECTRIC WATER HEATER	30A/3P/25AF/3R	208	3	-	6.00	20.83		
FPVAV-01	FAN POWERED AIR TERMINAL	30A/3P/20AF/3R	208	3	-	5.50	15.278		
FPVAV-02	FAN POWERED AIR TERMINAL	30A/3P/15AF/3R	208	3	-	4.50	12.5		
HWRP-1	HOT WATER RECIRCULATION	20A MOTOR RATED TOGGLE SWITCH	120	1	1/6	0.53	5.5		
RTU-1	ROOF TOP UNIT	400A/3P/225AF/3R	208	3	-	66.26	184.05		
SSI-1	SPLIT SYSTEM - INDOOR UNIT	30A/2P/15AF/1	208	1	-	0.25	1.2		
SSO-1	SPLIT SYSTEM - OUTDOOR UNIT	30A/3P/15AF/3R	208	1	-	3.12	15		
VAV-01	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.00	4.81		
VAV-02	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	0.50	2.4		
VAV-03	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.00	4.81		
VAV-04	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.00	4.81		
VAV-05	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.50	7.21		
VAV-06	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.50	7.21		
VAV-07	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	0.50	2.4		
VAV-08	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.50	7.21		
VAV-09	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	2.00	9.62		
VAV-10	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	2.00	9.62		
VAV-11	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	1.50	7.21		
VAV-12	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/25AF/1	208	1	-	1.50	7.21		
VAV-13	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/25AF/1	208	1	-	4.50	21.63		
VAV-14	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	1	-	2.00	9.62		

PANELBOARD AND WIRING SCHEDULE

PANEL: A | **MAINS TYPE:** MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 200 A | **MOUNTING:** SURFACE | **LOCATION:** ELEC. 109
SUPPLY FROM: MDP

NOTE	CIRCUIT DESCRIPTION	WIRE	GND	C	**	OCP	P	C...	A	B	C	C...	P	OCP	**	C	GND	WIRE	CIRCUIT DESCRIPTION	NOTE
	SPARE	--	--	--		20	1	1	0.0 0.0			2	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	3		0.0 0.0		4	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	5			0.0 0.0	6	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	7	0.0 0.0			8	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	9		0.0 0.0		10	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	11			0.0 0.0	12	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	13	0.0 0.0			14	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	15		0.0 0.0		16	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	17			0.0 0.0	18	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	19	0.0 0.0			20	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	21		0.0 0.0		22	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	23			0.0 0.0	24	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	25	0.0 0.0			26	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	27		0.0 0.0		28	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	29			0.0 0.0	30	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	31	0.0 0.0			32	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	33		0.0 0.0		34	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	35			0.0 0.0	36	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	37	0.0 0.0			38	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	39		0.0 0.0		40	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	41			0.0 0.0	42	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	43	0.0 0.0			44	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	45		0.0 0.0		46	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	47			0.0 0.0	48	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	49	0.0 0.0			50	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	51		0.0 0.0		52	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	53			0.0 0.0	54	1	20		--	--	--	SPARE	
								TOTAL LOAD (kVA):	0.0 kVA	0.0 kVA	0.0 kVA									
								TOTAL CURRENT (A):	0 A	0 A	0 A									

**** BREAKER TYPE KEY:** BLANK = STANDARD; G3 = GROUND FAULT 30mA (EQUIPMENT); GF = GROUND FAULT 5mA (PERSONNEL);
AF = ARC FAULT; ST = SHUNT TRIP; LC = LOCKING CLIP; LR = LOCKING CLIP & RED HANDLE (FIRE ALARM)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
				TOTAL CONNECTED LOAD: 0 VA
				TOTAL ESTIMATED DEMAND: 0 VA
				TOTAL CONNECTED CURRENT: 0 A
				TOTAL ESTIMATED DEMAND CURRENT: 0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.

PANELBOARD AND WIRING SCHEDULE

PANEL: C | **MAINS TYPE:** MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 400 A | **MOUNTING:** SURFACE | **LOCATION:** ELEC. 109
SUPPLY FROM: MDP

NOTE	CIRCUIT DESCRIPTION	WIRE	GND	C	**	OCP	P	C...	A	B	C	C...	P	OCP	**	C	GND	WIRE	CIRCUIT DESCRIPTION	NOTE
	SPARE	--	--	--		20	2	1	0.0 0.0			2								
								3		0.0 0.0		4	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	5			0.0 0.0	6								
								7	0.0 0.0			8	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	9		0.0 0.0		10								
								11			0.0 0.0	12	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	13	0.0 0.0			14								
								15		0.0 0.0		16	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	17			0.0 0.0	18								
								19	0.0 0.0			20	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	21		0.0 0.0		22								
								23			0.0 0.0	24	3	30		--	--	--	SPARE	
	SPARE	--	--	--		20	2	25	0.0 0.0			26								
								27		0.0 0.0		28	2	20		--	--	--	SPARE	
	SPARE	--	--	--		20	2	29			0.0 0.0	30								
								31	0.0 0.0			32								
	SPARE	--	--	--		25	3	33		0.0 0.0		34	3	45		--	--	--	SPARE	
								35			0.0 0.0	36								
								37	0.0 0.0			38								
	SPARE	--	--	--		20	2	39		0.0 0.0		40	3	30		--	--	--	SPARE	
								41			0.0 0.0	42								
	SPARE	--	--	--		20	1	43	0.0 0.0			44	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	45		0.0 0.0		46	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	47			0.0 0.0	48	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	49	0.0 0.0			50	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	51		0.0 0.0		52	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	53			0.0 0.0	54	1	20		--	--	--	SPARE	
								TOTAL LOAD (kVA):	0.0 kVA	0.0 kVA	0.0 kVA									
								TOTAL CURRENT (A):	0 A	0 A	0 A									

**** BREAKER TYPE KEY:** BLANK = STANDARD; G3 = GROUND FAULT 30mA (EQUIPMENT); GF = GROUND FAULT 5mA (PERSONNEL);
AF = ARC FAULT; ST = SHUNT TRIP; LC = LOCKING CLIP; LR = LOCKING CLIP & RED HANDLE (FIRE ALARM)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
				TOTAL CONNECTED LOAD: 0 VA
				TOTAL ESTIMATED DEMAND: 0 VA
				TOTAL CONNECTED CURRENT: 0 A
				TOTAL ESTIMATED DEMAND CURRENT: 0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.

PANELBOARD AND WIRING SCHEDULE

PANEL: D | X-RAY/ IMAGE PANEL | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 120/208V,1P,3W | **MAINS TYPE:** MCB (WITH SHUNT TRIP) | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 100 A | **SPD:** | **LOCATION:** CONTROLS 131B
MOUNTING: FLUSH | **SUPPLY FROM:** MDP

NOTE	CIRCUIT DESCRIPTION	WIRE	GND	C	**	OCP	P	CKT	A	B	CKT	P	OCP	**	C	GND	WIRE	CIRCUIT DESCRIPTION	NOTE
								1			2								
								3			4								
								5			6								
								7			8								
								TOTAL LOAD (kVA):	0.0 kVA	0.0 kVA								
								TOTAL CURRENT (A):	0 A	0 A								

**** BREAKER TYPE KEY:** BLANK = STANDARD; G3 = GROUND FAULT 30mA (EQUIPMENT); GF = GROUND FAULT 5mA (PERSONNEL);
AF = ARC FAULT; ST = SHUNT TRIP; LC = LOCKING CLIP; LR = LOCKING CLIP & RED HANDLE (FIRE ALARM)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
				TOTAL CONNECTED LOAD: 0 VA
				TOTAL ESTIMATED DEMAND: 0 VA
				TOTAL CONNECTED CURRENT: 0 A
				TOTAL ESTIMATED DEMAND CURRENT: 0 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.

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NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive
3009 Princess Place Drive

No.	Description	Date

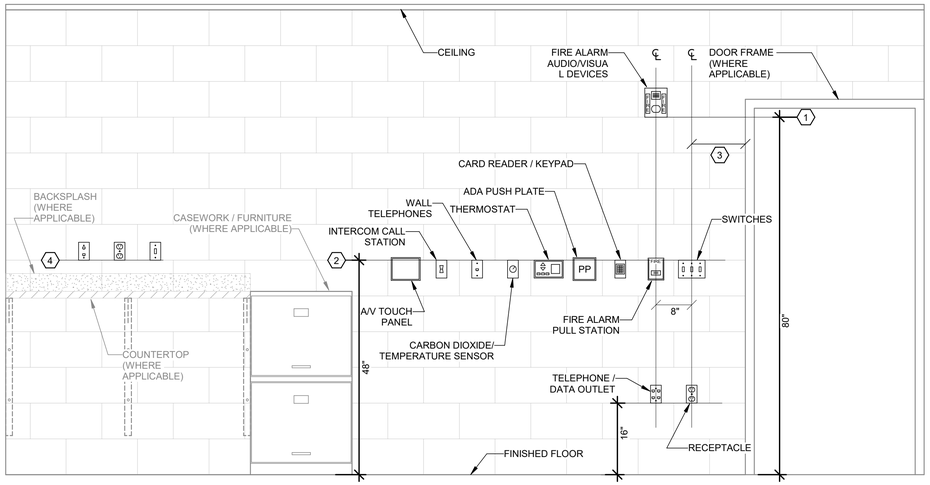
100% DESIGN DEVELOPMENT

ELECTRICAL PANEL SCHEDULES

ISSUE DATE 12/20/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-010

E501

12/20/2022 5:05:18 PM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - ELEC.rvt



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

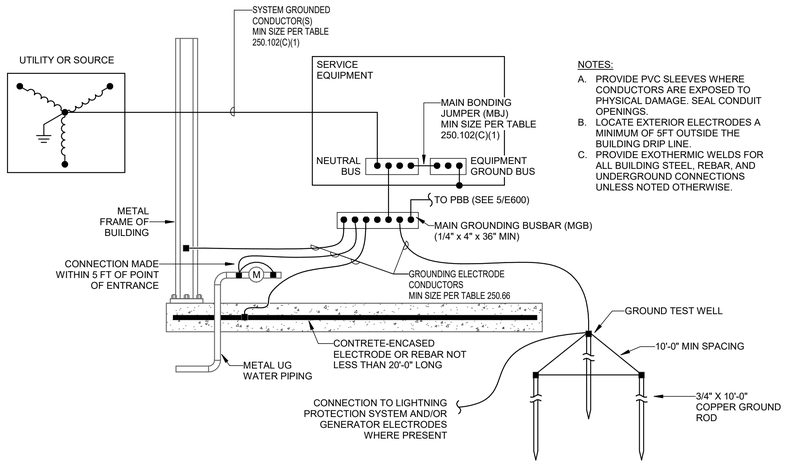
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

1 TYPICAL WALL DEVICE MOUNTING DETAIL

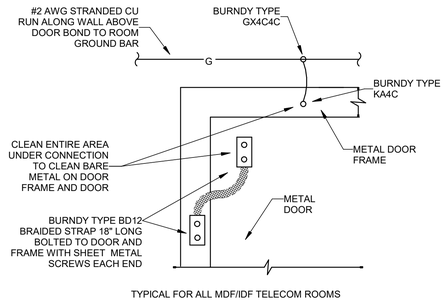
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NOTES:
A. PROVIDE PVC SLEEVES WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
B. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
C. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.

2 GROUNDING ELECTRODE SYSTEM DETAIL

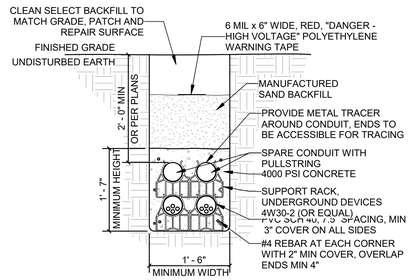
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TYPICAL FOR ALL MDF/IDF TELECOM ROOMS

3 METAL DOOR GROUNDING DETAIL

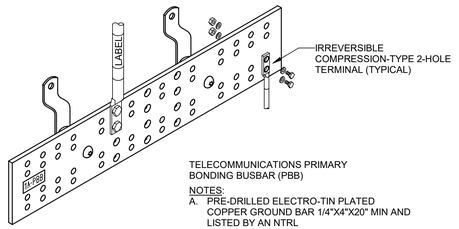
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DUCT BANK NOTES:
A. USE RIGID STEEL SWEEPING ELBOWS AT ALL TURNS, WHERE RISING ON UTILITY POWER POLE, TURNING UP INTO PAD MOUNTED UTILITY TRANSFORMER AND TURNING UP INTO BUILDING.
B. REFER TO POWER RISER, FLOOR PLANS AND PLAN NOTES FOR EXACT QUANTITY AND SIZE OF CONDUITS.
C. COMMUNICATIONS/FIBER RACEWAYS SHALL BE ROUTED IN DUCT BANK ENCASED CONSTRUCTION, CONSTRUCTED SAME AS SHOWN, EXCEPT FOR NUMBER AND SIZE OF CONDUIT.
D. POUR CONCRETE AGAINST UNDISTURBED EARTH.
E. REFER TO SPECIFICATIONS FOR EXCAVATION, TRENCHING, BACKFILLING AND GRADING REQUIREMENTS. REFER TO EARTHWORK SPECIFICATIONS FOR GENERAL ROCK REMOVAL AND EARTHWORK REQUIREMENTS.

4 DUCT BANK DETAIL - 4 CONDUIT

NO SCALE

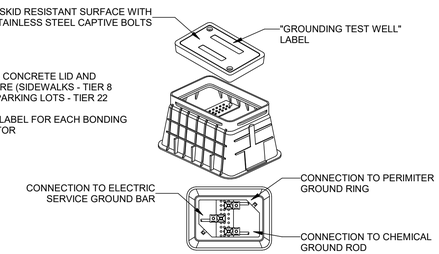


TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

5 TELECOMM BUSBAR - PBB

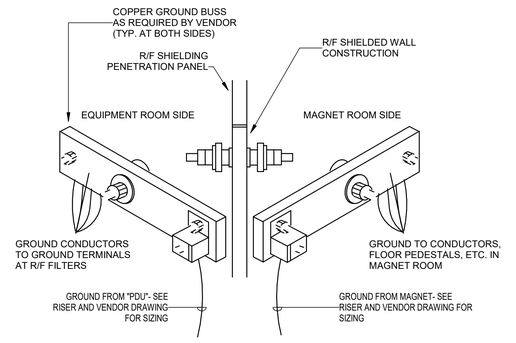
NO SCALE



NOTES:
A. POLYMER CONCRETE LID AND ENCLOSURE (SIDEWALKS - TIER 8 RATING, PARKING LOTS - TIER 22 RATING)
B. PROVIDE LABEL FOR EACH BONDING CONDUCTOR

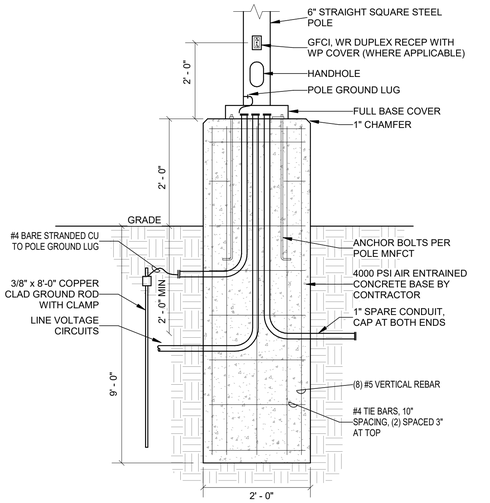
6 GROUND INSPECTION WELL

NO SCALE



7 R/F SHIELDING COMMON GROUND STUD DETAIL

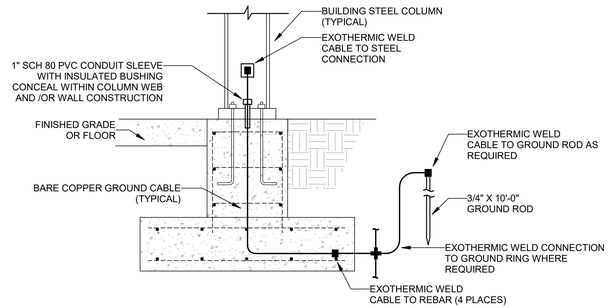
NO SCALE



8 POLE BASE DETAIL

NO SCALE

A. WHERE FOOTING REBAR DOES NOT MEET REQUIREMENTS OF NEC 250.52(A)(3), PROVIDE 20FT OF #4 AWG BARE COPPER CONDUCTOR.
B. PROVIDE PVC SLEEVE WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
C. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.



9 CONCRETE FOOTING GROUNDING DETAIL

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

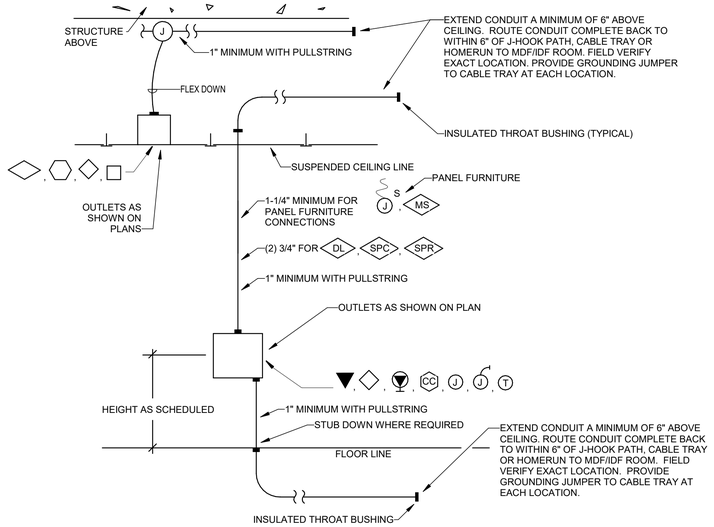
100% DESIGN DEVELOPMENT

ELECTRICAL DETAILS

ISSUE DATE 12/20/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-010

E600

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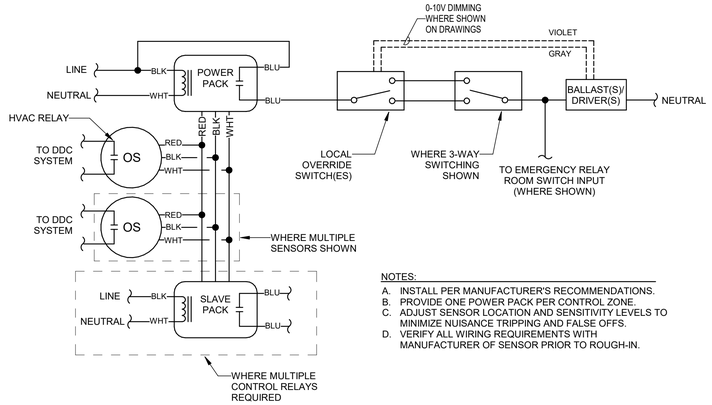


NOTES:

A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON ALL SYSTEM'S DRAWINGS. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
D. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.
E. AT ALL ISLAND MILLWORK LOCATIONS, PROVIDE 2" CONDUIT.

1 ROUGHING-IN DETAIL FOR STUB-OUTS

NO SCALE

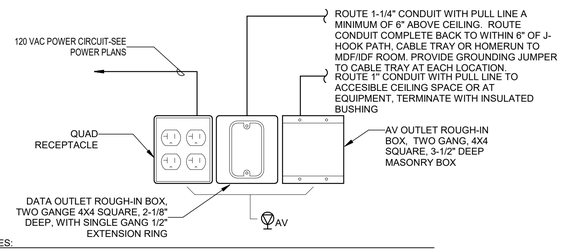


NOTES:

A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. PROVIDE ONE POWER PACK PER CONTROL ZONE.
C. ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
D. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SENSOR PRIOR TO ROUGH-IN.

2 OCC SENSOR - LOW VOLTAGE

NO SCALE

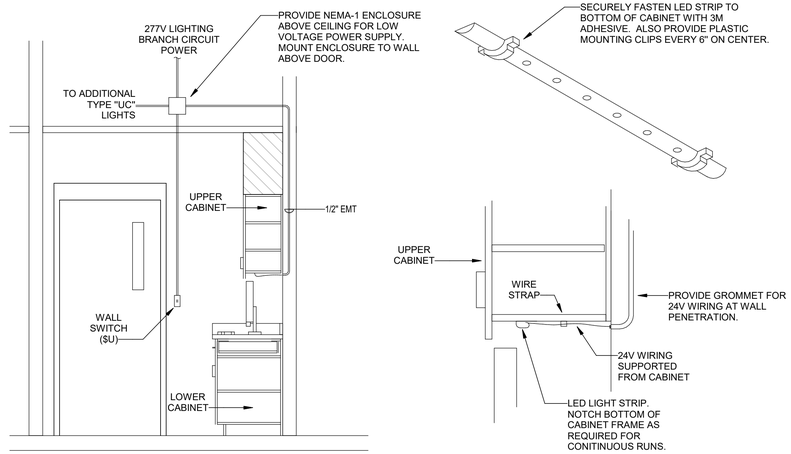


NOTES:

A. EXTEND CONDUIT TO ABOVE ACCESSIBLE CEILING OF SAME ROOM OR NEAR ASSOCIATED PROJECTOR OR AV EQUIPMENT CABINET. IN AREAS WITHOUT ACCESSIBLE CEILNGS, ROUTE DIRECTLY TO PROJECTOR OR AV EQUIPMENT CABINET.
B. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
C. MOUNT AT 18" AFF, BOXES TO BE NO MORE THAN 2" APART.

3 AV OUTLET BOX DETAIL

NO SCALE

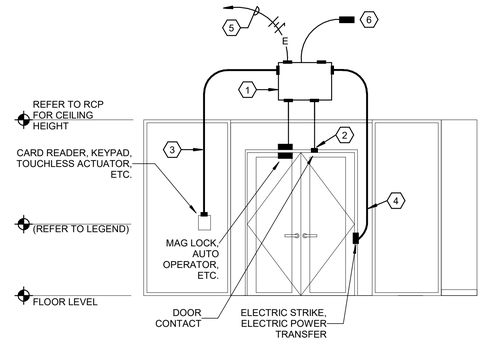


NOTES

A. PROVIDE LED STRIPS WITH ALL 24V FITTINGS REQUIRED.
B. LOW VOLTAGE POWER SUPPLY SHALL REQUIRE 277V HARDWIRED CONNECTION.
C. PROVIDE LINE VOLTAGE WALL SWITCH FOR ALL ROOMS WITH TYPE "UC" LIGHTING. SWITCH SHALL CONTROL ALL TYPE "UC" LIGHTS IN ROOM.
D. CONNECT TYPE "UC" LIGHTING TO 277V NORMAL POWER LIGHTING CIRCUIT IF PRESENT IN ROOM. OTHERWISE CONNECT TO 277V EMERGENCY POWER LIGHTING CIRCUIT IN ROOM.

4 LIGHT FIXTURE TYPE "UC" INSTALLATION DETAIL

NO SCALE



TAGGED NOTES:

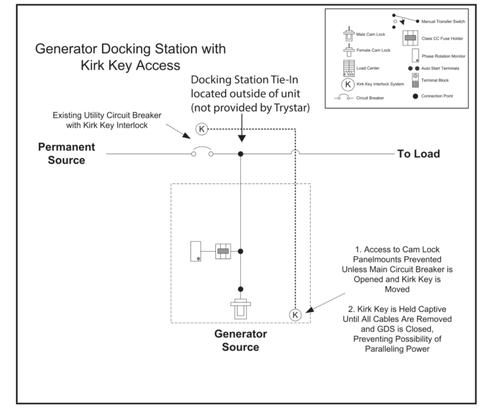
1. DOOR JUNCTION PANEL ABOVE DOOR PROVIDED AND INSTALLED BY THE ACCESS CONTROL VENDOR/CONTRACTOR. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR ALL LOCATIONS.
2. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR DOOR POSITION CONTACT SWITCHES, AUTO OPERATORS, MAGNETIC LOCKS, ETC.. PROVIDE ADDITIONAL CONDUITS AND LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
3. PROVIDE CONDUIT STUB-OUT FROM DOOR OPERATOR DEVICE 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR CARD READERS, TOUCHLESS ACTUATORS, KEYPADS, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
4. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR FOR ELECTRIC POWER TRANSFER, ELECTRIC STRIKE, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
5. ROUTE 120V POWER TO ALL DOOR POWER SUPPLIES, AUTO DOOR OPERATORS, ETC. AS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.
6. PROVIDE BACKBOX AND CONDUIT CONNECTION FROM INFANT ABDUCTION SYSTEM TO 6" ABOVE CEILING AT DOOR LOCATION INDICATED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED.

GENERAL NOTES:

A. PROVIDE ALL NECESSARY BACKBOXES, CONDUITS AND ROUGH-INS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR RISER REQUIREMENTS PER DOOR AND FOR EQUIPMENT ITEMS AND CONNECTIONS.
B. REFER TO DOOR HARDWARE SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL CONDUITS AND FINAL TERMINATIONS OF PATHWAYS AT ALL DOOR FRAMES, WALLS, BACKBOXES, ETC. AS REQUIRED FOR WIRING PATHWAYS.
C. PROVIDE 3/4" CONDUIT MINIMUM FOR ALL ACCESS CONTROL ROUGH-IN AND STUB-OUTS VIA 4" CONDUIT SLEEVE.

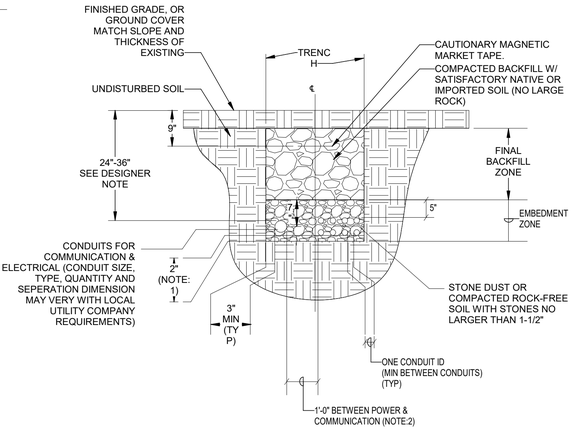
5 TYPICAL DOOR HARDWARE ROUGH-IN ELEVATION

NO SCALE



6 GENERATOR DOCKING STATION

NO SCALE



NOTE:

1. THE BOTTOM OF THE TRENCH MUST BE FREE OF ROCK. CINDERS OR SHARP OBJECTS.
2. SEPERATION BETWEEN ELECTRICAL CONDUITS AND COMMUNICATION CONDUITS SHALL BE 12" MINIMUM. GREATER SEPERATION SHALL BE MAINTAINED WHERE PRACTICAL. LOCAL COMPANIES MAY REQUIRE GREATER SEPARATION. THIS SHOULD BE DETERMINED IN ADVANCED BY THE SUBCONTRACTOR.
3. THE BACKFILLED TRENCH SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY (CH PER ASTM D-2487), OR OTHER UNSUITABLE MATERIAL SUCH AS TRASH, DEBRIS, BRUSH, FROZEN MATERIAL OR ICE.
4. PLACE EMBEDMENT ZONE MATERIAL IN 3 OR MORE LIFTS AS SHOWN AND TAMP TO ELIMINATE VOIDS AND ASSURE FULL CONTACT WITH THE CONDUIT PERIMMETER.
5. PLACE FINAL BACKFILL ZONE MATERIAL IN 6-INCH LIFT AND COMPACT WITH MULTIPLE PASSES OF A MACHINE TAMPER, ROLLER OR VIBRATORY EQUIPMENT (FOR USE ON SAND AND GRAVEL ONLY) THAT IS SPECIFICALLY DESIGNED FOR SOIL COMPACTION. COMPACT UNTIL VOIDS ARE ELIMINATED AND THE COMPACTED SURFACE NO LONGER VISIBLY YIELDS BENEATH THE COMPACTION EQUIPMENT.
6. ALL CONDUITS SHALL BE BURIED A MINIMUM OF 24" BELOW GRADE TO TOP OF CONDUIT.

7 DIRECT BURIED CONDUIT

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

100% DESIGN DEVELOPMENT

ELECTRICAL DETAILS

ISSUE DATE 12/20/2022
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-010

E601

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PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION		ROUGH-IN-SIZE WASTE	VENT	CW	HW	REMARKS
P-1A	FLOOR MOUNTED, ADA COMPLIANT, WHITE, VITREOUS CHINA WITH BATTERY OPERATED 1.28 GPF FLUSH VALVE AND WHITE OPEN FRONT SEAT. PROVIDE 10 YEAR BATTERY.	WATER CLOSET: KOHLER HIGHCLIFF ULTRA K-96057-B, FLUSH VALVE: ZURN ZTR-6200-EV-LL SEAT: BEMIS B1955SSCT000 SEAT	4"	2"	1"	——	
P-3	ADA COMPLIANT LAVATORY, WALL MOUNTED CAST IRON WITH METERING FAUCET. FAUCET IS HARDWIRED.	LAVATORY:KOHLER HUDSON K-2812-0 FAUCET: SLOAN EFX-300 FAUCET AND MIX-60A MIXING VALVE, 1.5 GPM.	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT, WALL CARRIER.
P-4	EXAM ROOMS: 18 GAUGE STAINLESS STEEL, DROP-IN SINGLE COMPARTMENT SINK, 15"x15"x7" WITH GOOSENECK FAUCET AND WRIST BLADE HANDLES	SINK: JUST SL-1515-A-GR FAUCET: CHICAGO 786-GN2317-E3TWCP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4A	BREAK ROOM: 18 GAUGE STAINLESS STEEL DROP-IN TWO COMPARTMENT SINK, 33"x22"x6.5" ADA COMPLIANT WITH SINGLE HANDLE FAUCET AND SPRAYER.	SINK: JUSTDLN-ADA-1829-A-GR FAUCET: MOEN MODEL 8711, 1.5 GPM, SINGLE LEVER HANDLE.	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4B	SOILED UTILITY SINK: WALL MOUNTED	SINK: KOHLER HUDSON K-2812-0 FAUCET: CHICAGO 786-GN2317-E3TWCP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-4C	LAB SINK: DROP IN SINGLE COMPARTMENT SINK	SINK:JUST SL-1617-A-GR FAUCET: CHICAGO 895-317-E29VP, 4" WRIST BLADE HANDLES	2"	2"	1/2"	1/2"	GRID STRAINER, SUPPLIES, 17 GAUGE BRASS TRAP WITH CLEANOUT.
P-5	ELECTRIC WATER COOLER W/ BOTTLE FILLER. 8 GPH CAPACITY WITH FILTER.	BASIS OF DESIGN: ELKAY MODEL LZSTL8WSLP	2"	2"	1/2"	1/2"	SMITH 0831 WALL CARRIER CW SUPPLY, 17 GAUGE BRASS TRAP WITH CLEANOUT
P-6	MOP BASIN 24x24x12 TERRAZZO WITH STAINLESS STEEL CAPS, HOSE BRACKET AND SS WALL GUARDS. WALL MOUNTED FAUCET WITH VACUUM BREAKER	SINK: FIAT TBSC1610 FAUCET: T&S BRASS B-665 BSTP	3"	2"	3/4"	3/4"	INSTALL CHECK VALVES ON SUPPLIES SEE DETAIL
P-7	ANTI-SIPHON HOSE BIBB. PROVIDE SQUARE BOX WITH DOOR IN TOILET ROOMS.	BASIS OF DESIGN: WOODFORD MODEL 24P	——	——	1/2"	——	
P-7A	ANTI-SIPHON WALL HYDRANT. PROVIDE SQUARE BOX WITH DOOR	BASIS OF DESIGN: WOODFORD B67	——	——	3/4"	——	
P-7B	ANTI-SIPHON ROOF HYDRANT. PROVIDE SQUARE BOX WITH DOOR	BASIS OF DESIGN: WOODFORD SRH-MS	——	——	3/4"	——	
P-9a	RECESSED ICEMAKER BOX WITH WATER HAMMER ARRESTOR	BASIS OF DESIGN: SIOUX CHIEF 696RG1010MF	——	——	1/2"	——	
P-10	EMERGENCY EYEWASH - LAB EYEWASH/DRENCH HOSE UNIT - ANSI Z358.1 COMPLIANT	BASIS OF DESIGN: GUARDIAN G5022 WITH TMV THERMOSTATIC MIXING VALVE	-	-	1/2"	1/2"	INSTALL AT CLEAN SINK IN LAB.
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE TOP	BASIS OF DESIGN: ZURN ZN415B	3"	2"	——	——	PROVIDE FLOOR DRAINS WITH SURE SEAL MODEL SS3009V OR EQUAL.
FCO	FLOOR CLEANOUT -	BASIS OF DESIGN: WATTS MODEL CO-200	-	——	——	——	SEE FLOOR PLANS FOR SIZE
WCO	WALL CLEANOUT -						

NOTE:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FIXTURES.

MOTOR CONTROL SCHEDULE

MOTOR DESIGNATION	UNIT USE	POWER SOURCE	RATING HORSEPOWER (KW)	RATING VOLTAGE	RATING PHASE	MOTOR LOCATION	MOTOR STARTER TYPE	MOTOR STARTER LOCATION	MOTOR STARTER FURNISHED BY	MOTOR STARTER INSTALLED BY	MOTOR STARTER WIRED THRU STARTER TO MOTOR	AUXILIARY CONTROL DEVICES ITEM	AUXILIARY CONTROL DEVICES LOCATION	AUXILIARY CONTROL DEVICES FURNISHED BY	AUXILIARY CONTROL DEVICES INSTALLED BY	AUXILIARY CONTROL DEVICES WIRED BY
HWRP-1	HOT WATER RECIRCULATION	NORMAL	1/6	120	1	MECHANICAL ROOM	MANUAL	JANITORS CLOSET	PC	PC	EC	AQUASTAT	ON HOT WATER RETURN	PC	PC	EC

ABBREVIATIONS:

P.C.	PLUMBING CONTRACTOR	FVNR	FULL VOLTAGE NON-REVERSING - MAGNETIC	AUX	AUXILIARY CONTACTS
E.C.	ELECTRICAL CONTRACTOR	ALT	ALTERNATOR	MANUAL	MANUAL ON/OFF

MOTOR CONTROL SCHEDULE NOTES

1. THE ABOVE LISTED SCHEDULE OUTLINES THE MAJOR MOTOR LOADS, STARTERS AND THEIR ASSOCIATED AUXILIARY CONTROL DEVICES. IN NO CASE IS THIS SCHEDULE MEANT TO ONLY INDICATE ALL DEVICES, BUT TO ASSIST THE DIVISION 22 CONTRACTORS IN CLARIFYING THEIR SCOPE OF WORK. UNIT HEATERS, ETC. MISCELLANEOUS MOTORS MAY NOT BE REPRESENTED. ALL STARTERS SHALL BE SIZED FOR PROPER OPERATION AND IN CASES WHERE MC WIRES A DEVICE, WIRING AND CONDUIT SHALL BE SIZED PER LATEST EDITION OF N.E.C.
2. STARTER TYPE (PROVIDED BY MC OR PC)
   A. (FVNR) (INTEGRAL WITH UNIT) FULL VOLTAGE, NON-REVERSIBLE MAGNETIC STARTERS FURNISHED AS PART OF THE UNIT AND CIRCUIT BREAKER OR EQUIVALENT AS ACCEPTED BY A-E. WIRING FROM STARTER TO MOTOR SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.

THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR THE BELOW LISTED MONITORING FUNCTIONS AND PROVIDE ALL NECESSARY WIRING AND DEVICES REQUIRED TO DISPLAY THE MONITORING FUNCTIONS.

THE BAS CONTRACTOR SHALL WRITE AND IMPLEMENT ALL PROGRAMMING STRATEGIES.

THE CONTROL SYSTEM COMPONENTS SHALL BE BACNET,OVER ETHERNET, LON OR MODBUS RTU. PROVIDE THE FOLLOWING MONITORING FUNCTIONS:

b. HOT WATER RETURN PUMP HWRP-1

- PUMP ON - PROGRAMMED BY THE OWNER
- PUMP OFF - PROGRAMMED BY THE OWNER

PLUMBING LEGEND

SYMBOL	DESCRIPTION
CW	COLD WATER
HW	HOT WATER - 110°
HWR	HOT WATER RECIRCULATION
V	VENT
SAN	SANITARY SEWER
140	HOT WATER - 140°
	FLOW ARROW
	WALL HYDRANT/HOSE BIBB
	SHUT-OFF VALVE (BALL VALVE)
	HWR CIRCUIT SETTER OR GAS COCK
	CHECK VALVE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
VTR	VENT THRU ROOF
DROP RISE	DROP OR RISE
	CAPPED CONNECTION
FD	FLOOR DRAIN
	VALVE IN RISER
8 / P0.04	DETAIL SYMBOL INDICATING THE DETAIL NUMBER AND THE DETAIL LOCATION SHEET REFERENCE
CW	COLD WATER
HW	HOT WATER
BFF	BELOW FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
WHA	WATER HAMMER ARRESTOR
	BALL VALVE
	SOLENOID VALVE
FD	FLOOR DRAIN
TMV	THERMOSTATIC MIXING VALVE
HP	HORSEPOWER
PH	PHASE
RPM	REVOLUTIONS PER MINUTE
KW	KILOWATT
GPM	GALLON PER MINUTE
CW	GENERAL CONTRACTOR
HWRP	HOT WATER RECIRCULATION PUMP

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	GALLONS STORAGE	GALLONS RECOVERY	KW INPUT	VOLTAGE	A.O.SMITH MODEL NUMBER	SERVICE	REMARKS
WH-1	50	27	6	208V, 3PH	DEN-50	140°	STORE WATER AT 140°F

NOTES:
1. HEATER BASED ON NON-SIMULTANEOUS OPERATION.
2. RECOVERY BASED ON 90 DEGREE F TEMPERATURE RISE.

THERMOSTATIC MIXING VALVE SCHEDULE

SYMBOL	MINIMUM FLOW	MAXIMUM FLOW	PRESS. DROP @ MAX. FLOW	SELECTED ON LAWLER MODEL NUMBER	SERVICE	REMARKS
TMV-1	1 gpm	10 gpm	10 psi	801	115°	THERMOSTATIC MIXING VALVE SHALL BE PRESSURE BALANCING TYPE

THERMOSTATIC MIXING VALVE AND RECIRCULATION PUMP SHALL BE PART OF A PRE-PIPED DIGITAL CONTROL AND MONITORING RECIRCULATION SYSTEM . BASIS OF DESIGN IS THE LAWLER MODEL SEA BASIC OR EQUAL.

THE THERMOSTATIC MIXING VALVE SHALL BE CAPABLE OF RESPONDING TO THE FOLLOWING THREE CONDITIONS AND MAINTAINING THE WATER TEMPERATURE OR PREVENTING ANY END USER SCALDING:

1. SYSTEM SHUTDOWN IF THE LIQUID MOTOR FAILS.

2. AUTOMATIC CHANGES DUE TO HOT WATER TEMPERATURE FLUCTUATIONS.

3. SYSTEM SHUTDOWN IF THE COLD WATER SUPPLY IS INTERRUPTED.

HOT WATER RECIRCULATION PUMP SCHEDULE

SYMBOL	SERVICE	GPM	HEAD	HP	VOLT	PH	RPM	B&G MODEL NUMBER	REMARKS
HWRP-1	HOT WATER RECIRC.	4	20	1/6	120	1	1750	PL-36	MAINTAIN 5°F DT OVER SYSTEM. PROVIDE DISCONNECT.

GENERAL NOTES:

1. ALL OPENINGS FOR PIPING PENETRATIONS ARE GENERALLY PROVIDED BY THE PLUMBING SUB-CONTRACTOR. EXCEPTIONS ARE COVERED BY NOTES AND DETAILS. THE LOCATION AND SIZE OF EACH OPENING SHALL BE FURNISHED TO THE GENERAL CONTRACTOR BY THE PLUMBING SUB-CONTRACTOR.
2. PIPE HANGERS AND CONCRETE INSERTS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE PLUMBING SUB-CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC.
3. UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT, NO BURIED PIPING UNDER THE SLAB SHALL BE INSTALLED WITHIN THE FOOTING BEARING.
4. SLEEVES FOR PIPING PASSING THROUGH BELOW SLAB FOUNDATION WALLS SHALL BE COORDINATED AND PROVIDED BY THE PLUMBING SUB-CONTRACTOR.
5. ALL LINTELS REQUIRED IN MASONRY AND STUD WALLS FOR PIPING PENETRATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
6. COORDINATE VERTICAL PIPING WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF RISER.
7. UNLESS APPROVED BY THE ENGINEER, NO HORIZONTAL PIPING IN THE MECHANICAL ROOM, SHALL BE INSTALLED WITH A BOTTOM OF PIPE ELEVATION BELOW 8'-0"AFF.
8. ALL BURIED PRESSURE PIPING SHALL BE A MINIMUM OF 24" BELOW FINISHED GRADE TO TOP OF PIPE.
9. INSTALL ALL HANDICAP TOILET FLUSH VALVES ON THE WIDE SIDE OF THE TOILET.
10. COORDINATE THE INVERT ELEVATIONS WITH THE SITE UTILITY DRAWINGS. THE INVERT INDICATED ON THE PLUMBING DRAWINGS IS THE MINIMUM INVERT TO EXIT THE BUILDING. THE PLUMBING SUB-CONTRACTOR SHALL COORDINATE, VERIFY AND PROVIDE THE INVERT ELEVATIONS ON THE COORDINATION DRAWINGS.
11. THE PLUMBING SUB-CONTRACTOR IS REQUIRED TO COMPLETELY ROD AND FLUSH OUT ALL SANITARY, GREASE WASTE PIPING AFTER THE BUILDING IS COMPLETED.
12. REFER TO SPECIFICATIONS REGARDING VIDEO INSPECTIONS OF SANITARY, GREASE WASTE AND STORM DRAINAGE PIPING.
13. THE PLUMBING SUB-CONTRACTOR IS REQUIRED TO PROVIDE DETECTABLE WARNING TAPE AND TRACER WIRE FOR UNDERGROUND WATER DISTRIBUTION AND ALL DRAINAGE PIPING WITHIN THE SCOPE OF THIS CONTRACT.
14. ALL PLUMBING VENTS SHALL BE INSTALLED AT A MINIMUM OF 15'-0" FROM ANY FRESH AIR INTAKES.
15. REFER TO THE SPECIFICATIONS FOR WATER SUPPLY AND P-TRAP INSULATION REQUIRED FOR ALL EXPOSED ADA SINK AND LAVATORY LOCATIONS.
16. PROVIDE LABEL ON CEILING GRID FOR ALL VALVE LOCATIONS.
17. ALL SANITARY PIPING BELOW GRADE SHALL BE PVC. ALL VENT PIPING ABOVE GRADE SHALL BE GALVANIZED STEEL. MATERIALS ABOVE CEILING SHALL BE PLENUM RATED.
18. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.
19. THE HOT WATER RECIRCULATION SYSTEM SHALL BE BALANCED. SUBMIT REPORT TO ARCHITECT.

DRAWING LIST - PLUMBING

Sheet Number	Sheet Name
P001	PLUMBING NOTES, SYMBOLS, SCHEDULES
P002	PLUMBING DETAILS
P101	FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER PIPING
P102	FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING
P103	ROOF PLAN - PLUMBING
P201	PLUMBING ISOMETRIC- HOT AND COLD WATER
P202	PLUMBING ISOMETRIC - WASTE AND VENT

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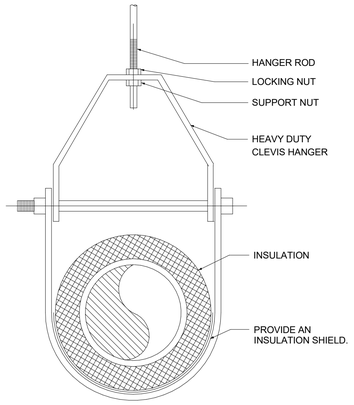
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PLUMBING NOTES, SYMBOLS, SCHEDULES

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P001

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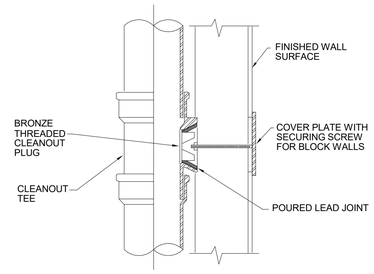


MAXIMUM PIPE SUPPORT SPACING				
	HORIZONTAL			VERTICAL
PIPE SIZE	1"	1¼"	1½" AND LARGER	ALL PIPE SIZES
COPPER PIPING	6 FT		10 FT	10 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
CAST IRON PIPING	5 FT. (10 FT WHERE 10 FOOT LENGTH OF PIPE ARE USED)			15 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
STEEL PIPING	12 FT			15 FT

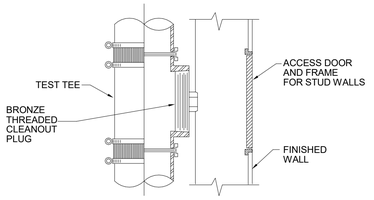
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.

REFER TO THE GAS PIPING HANGER SCHEDULE FOR GAS PIPING.

7 P002 — CLEVIS HANGER DETAIL
SCALE: NONE

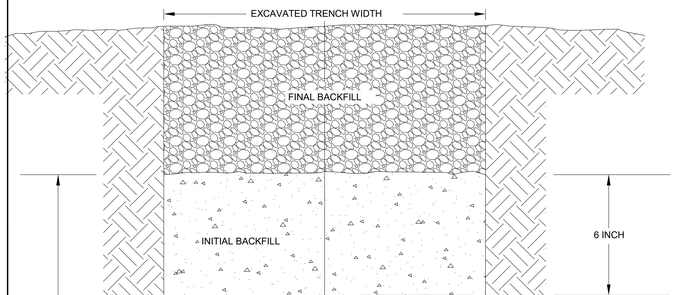


HUB AND SPIGOT WITH COVER PLATE



NO-HUB WITH ACCESS COVER

5 P002 — WALL CLEANOUT DETAIL
SCALE: NONE



2 P002 — UNDERGROUND PCV PIPE INSTALLATION DETAIL
SCALE: NONE

UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

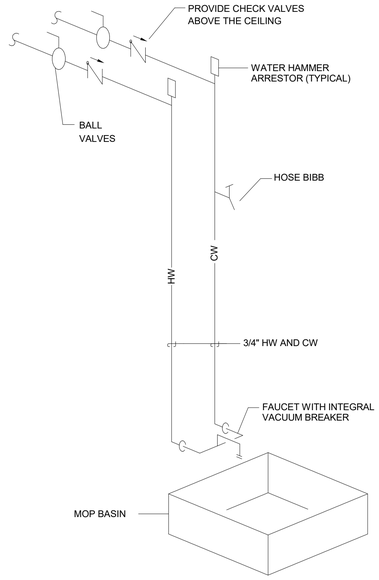
ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

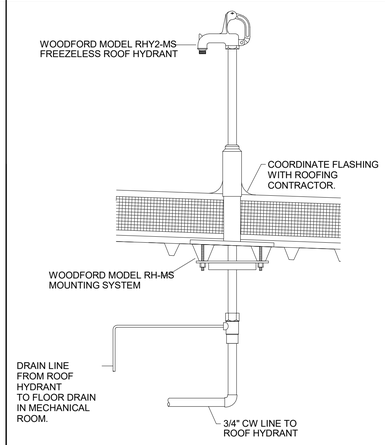
NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

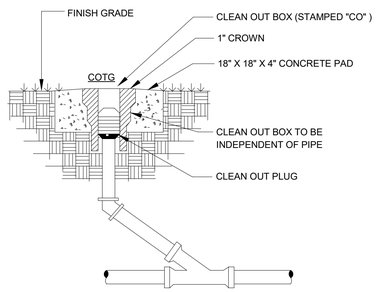
1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH. BEDDING SHALL BE CLEAN SAND.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.



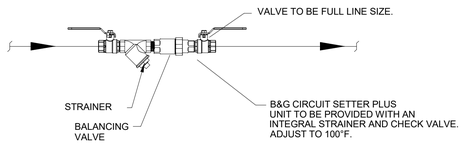
8 P002 — MOP BASIN DETAIL
SCALE: NONE



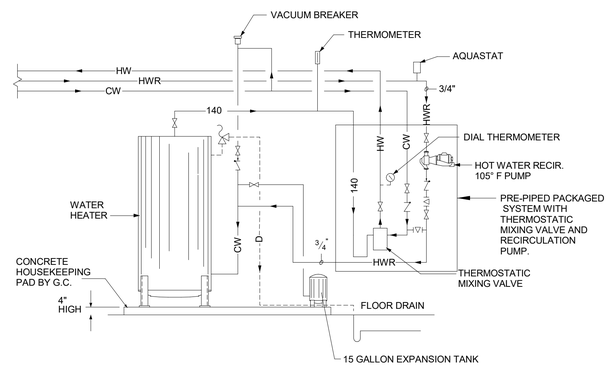
6 P002 — ROOF HYDRANT DETAIL
SCALE: NONE



3 P002 — EXTERIOR CLEANOUT DETAIL (COTG)
SCALE: NONE



4 P002 — HOT WATER RETURN BALANCING VALVE DETAIL
SCALE: NONE SCALE: NONE



1 P002 — ELECTRIC HEATER PIPING DETAIL
SCALE: NONE

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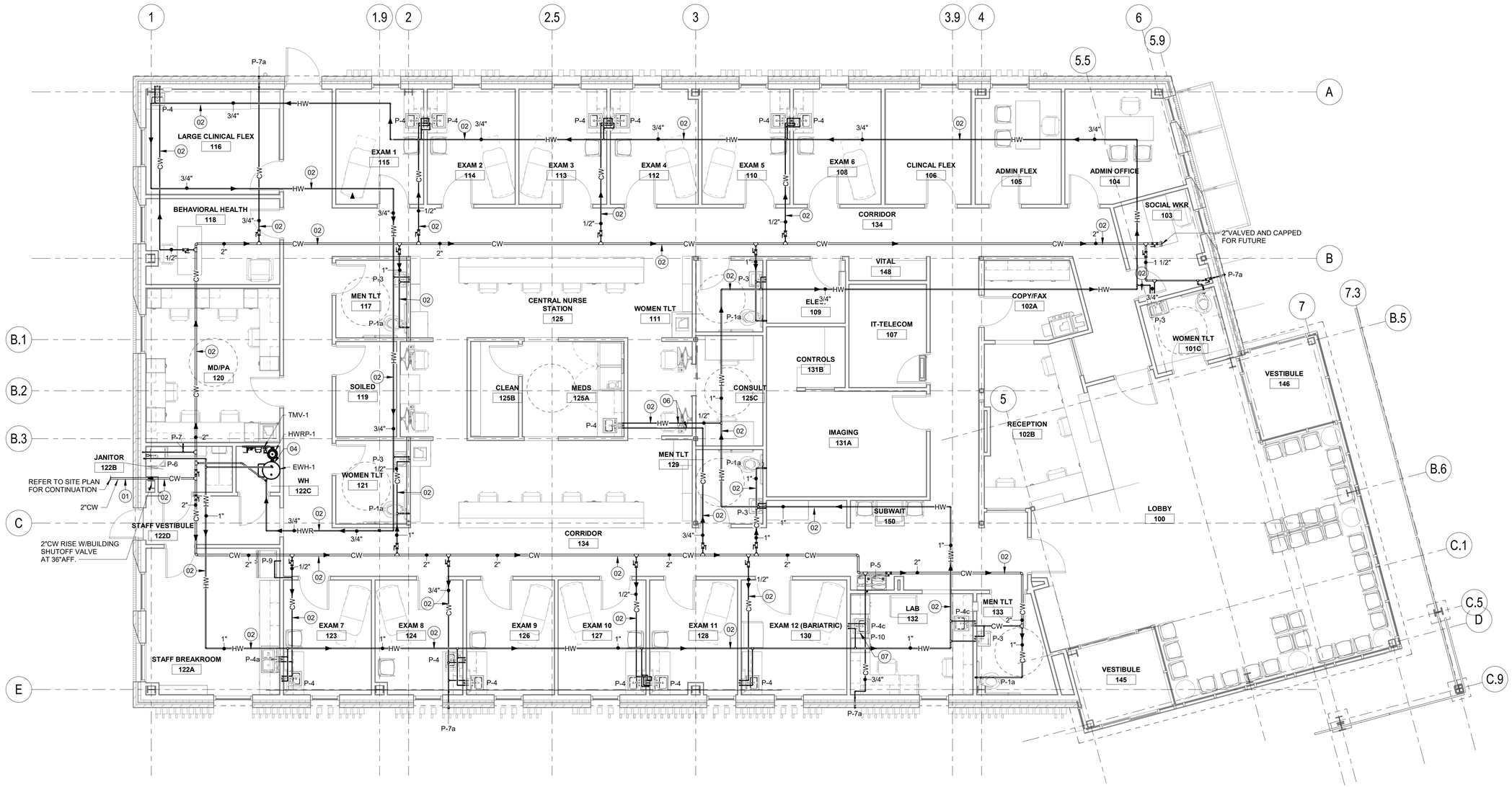
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P002

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Keynote Legend	
Key Value	Keynote Text
01	PIPING ROUTED BELOW THE FINISHED SLAB OR BELOW THE FINISHED GRADE.
02	PIPING ROUTED WITHIN THE CEILING CAVITY WHERE LAY-IN OR HARD CEILINGS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS. PIPING ROUTED EXPOSED AT THE STRUCTURE ABOVE WHERE EXPOSED CEILING CONDITIONS EXIST.
04	SEE DRAWING P002 FOR SCHEMATIC PIPING DIAGRAM FOR WATER HEATER, THERMOSTATIC MIXING VALVE AND HOT WATER RECIRCULATION PUMP.
06	RUN HW, CW AND VENT PIPING IN SOFFIT. COORDINATE WITH ELECTRICAL, SPRINKLER AND DUCTWORK.
07	RUN 1/2" CW/HW TO THERMOSTATIC MIXING VALVE SERVING EYEWASH P-10.



1 P101 FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER PIPING
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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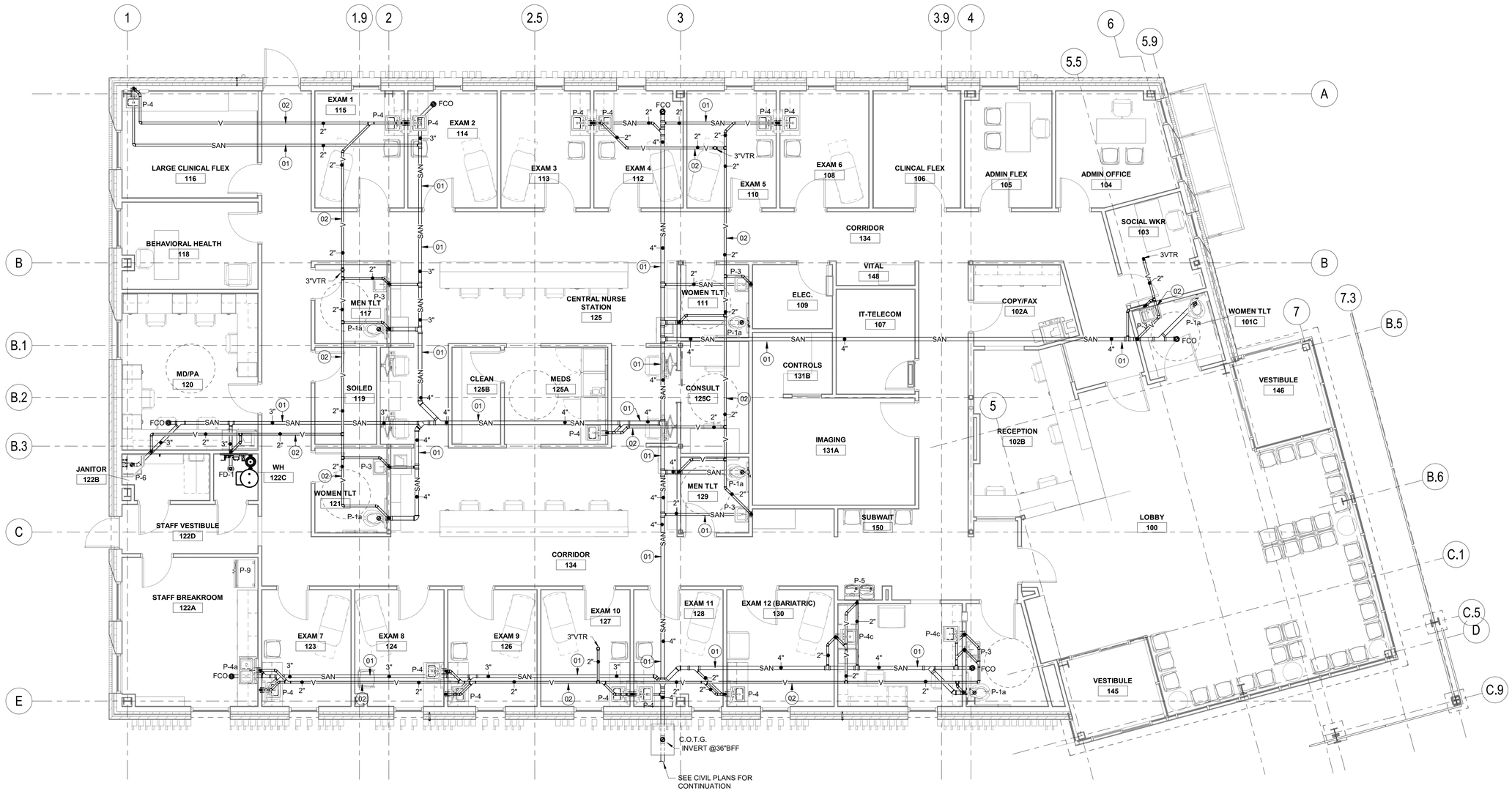
FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER PIPING

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1 P102 FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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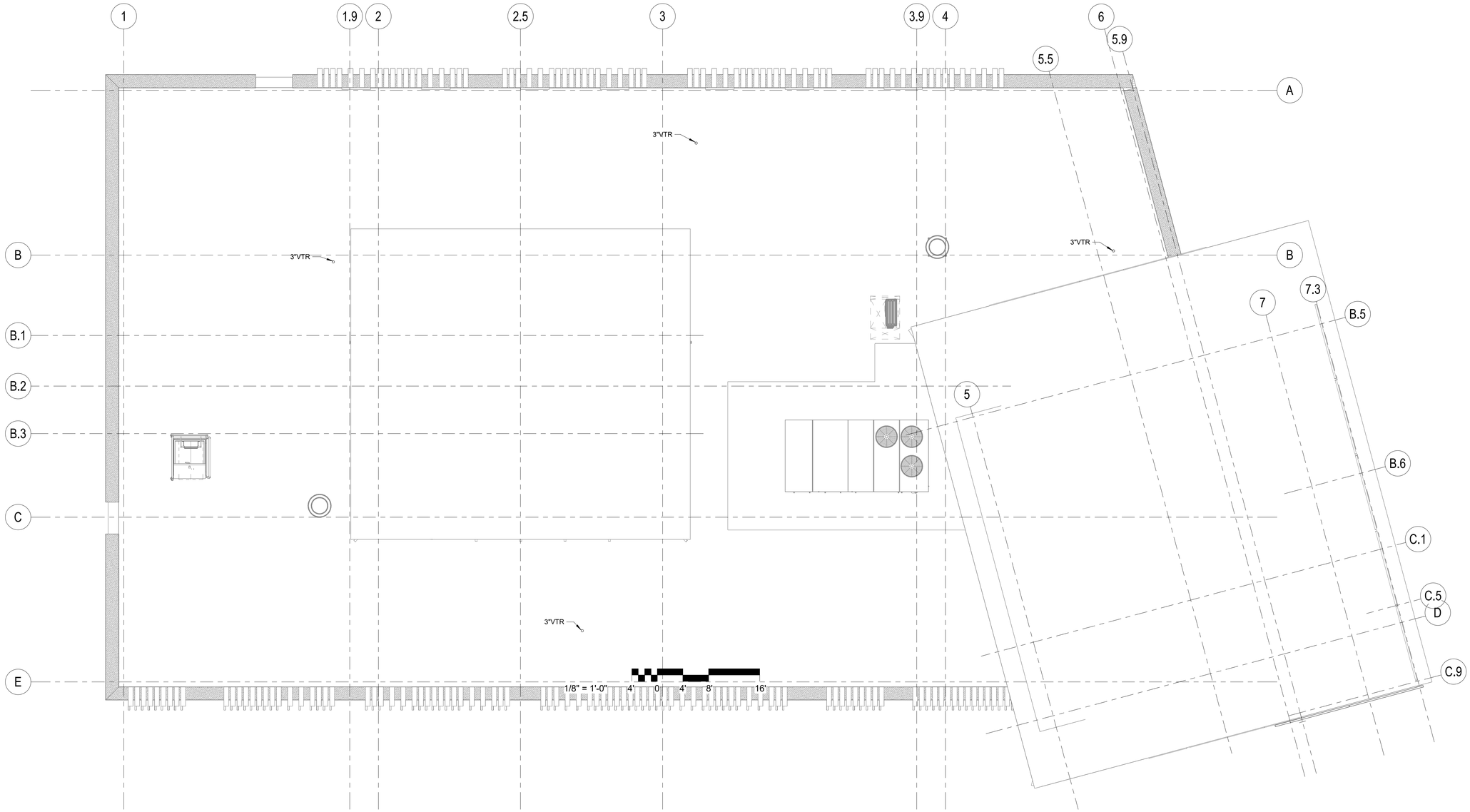
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FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING

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P102

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1 P103 ROOF PLAN
3/16" = 1'-0"

3/16" = 1'-0" 2' 0 2' 4' 8'

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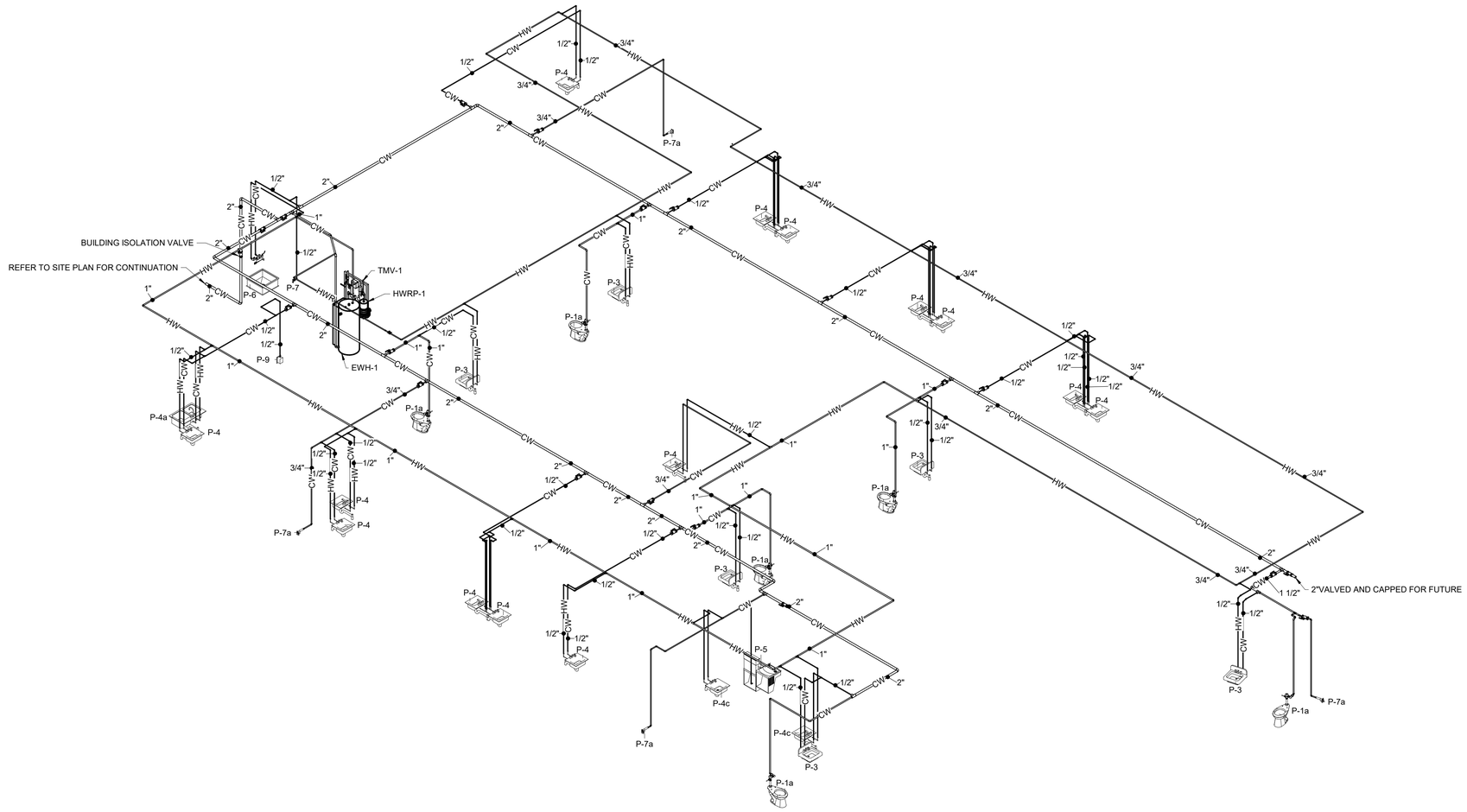
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ROOF PLAN - PLUMBING

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1 P201 PLUMBING ISOMETRIC - HOT AND COLD WATER PIPING

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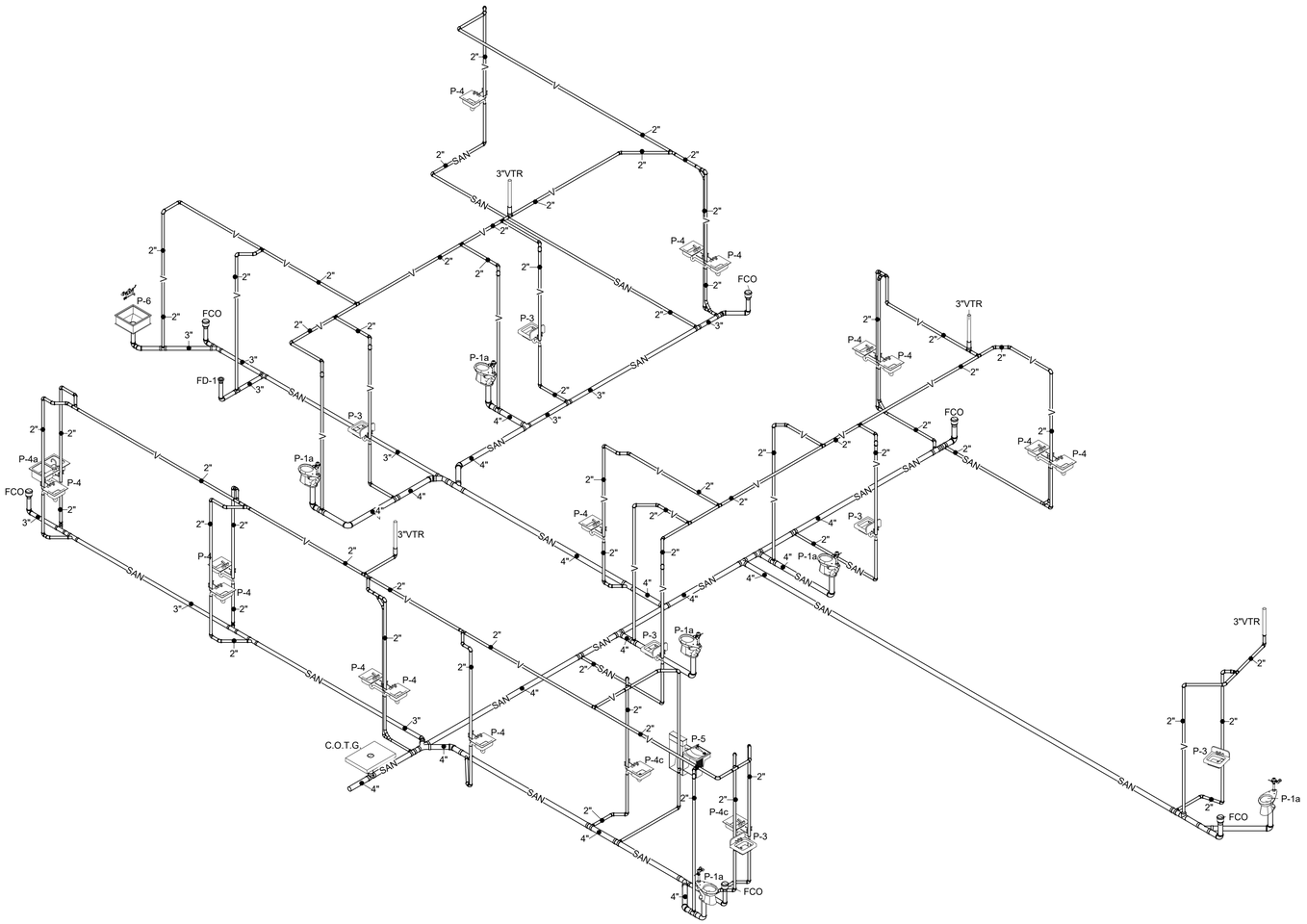
100% DESIGN DEVELOPMENT

PLUMBING ISOMETRIC-HOT AND COLD WATER

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1 P202 PLUMBING ISOMETRIC - WASTE AND VENT PIPING

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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

NOT FOR CONSTRUCTION

Novant Family Medical Clinic - Princess Place Drive

3009 Princess Place Drive

No.	Description	Date

100% DESIGN DEVELOPMENT

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ISSUE DATE 12/20/2022
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