Novant Family Medical Clinic - North Wilmington

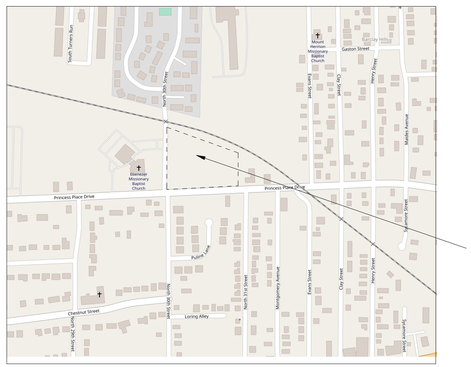
NOVANT HEALTH

416 N 30th Street, Wilmington, NC 28405

CONSTRUCTION DOCUMENTS 05/26/2023



VICINITY MAP



Mechanical / Electrical / Plumbing Engineer
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Structural Engineer
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NOVANT HEALTH
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FRANK ARNELL LITTLE · REGISTERED ARCHITECT · 9404 · NORTH CAROLINA · MOORESVILLE, N. CAROLINA

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Frank A. Little Date: 2023.06.14 17:34:45-04'00'

21-010
Novant Family Medical Clinic - North Wilmington
CONSTRUCTION DOCUMENTS

COVER SHEET

ISSUE DATE	06/14/2023
CHECKED	GTB
SHEET BY	AVB
PROJECT NUMBER	21-010

A000

GENERAL

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CIVIL

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C1	INVENTORY/TREE REMOVAL PLAN
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C6	NOTES & DETAILS
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E301	ELECTRICAL FIRST FLOOR - MECHANICAL SYSTEMS
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P002	PLUMBING DETAILS
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P103	ROOF PLAN - PLUMBING
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P202	PLUMBING ISOMETRIC - WASTE AND VENT

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FRANK ARNELL LITTLE · REGISTERED ARCHITECT · 9404 · NORTH CAROLINA · MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:34:47-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

DRAWING INDEX

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A001

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 - North Wilmington**
ADDRESS: **416 N 30th Street, Wilmington, NC 28405** 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	**MIHALY LAND DESIGN**	**Josh Mihaly**		**910.343.9653**	**josh@mihalyland.net**
Civil	**NTCE, P.C.**	**John Tunstall**	**19851**	**910.343.9653**	**jtunstall@ntengineers.com**
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**	**7404 sf**	**7404 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	
.	**32**	**32**	.	.	.	**3**
.	.	.	.	.	.	.
TOTAL	**32**	**32**	.	.	.	**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**
	.	.	.	.	.	.	.	.
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	.	.	.	.	.	.	.	.
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-16.5 ci**
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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NEIGHBORING CONCEPTS PLLC — CERT. NO. C-2915 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:48-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

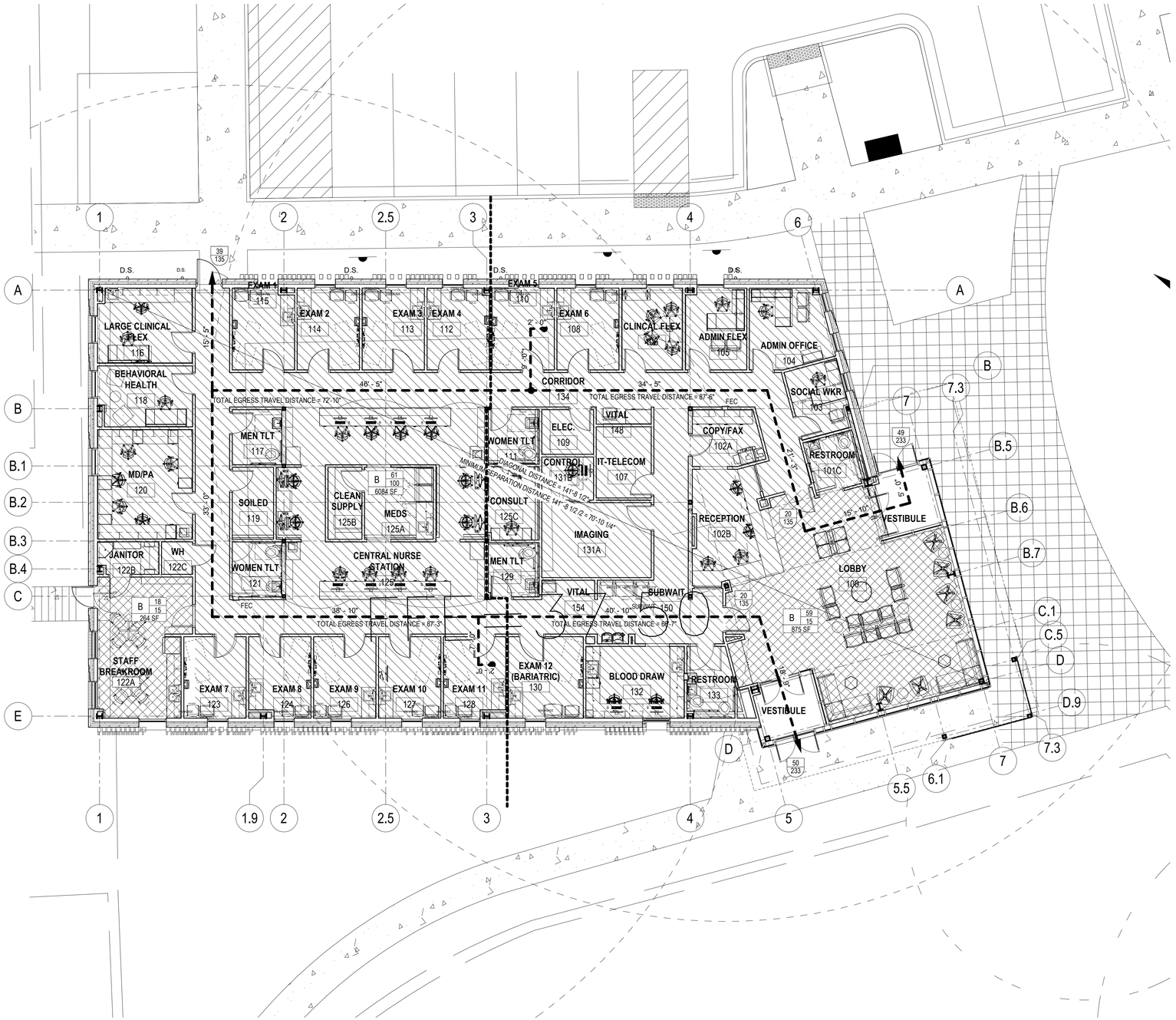
CONSTRUCTION DOCUMENTS

BUILDING CODE SUMMARY

ISSUE DATE 06/14/2023
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A002

06/14/2023



1 A010 **FIRST FLOOR LIFE SAFETY PLAN**

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

LIFE SAFETY SYMBOL LEGEND

- PATH OF EGRESS
- T-SHAPE TURNING SPACE WITHIN A 60" MIN. SQUARE
- OCCUPANCY
- NUMBER OF OCCUPANTS
- DENSITY PER PERSON
- AREA
- TURNING RADIUS BETWEEN AISLES 48" MIN.
- ACTUAL OCCUPANT LOAD
- ALLOWABLE OCCUPANT LOAD
- TURNING RADIUS 60"MIN.
- GROSS BUSINESS AREA
- FIRE EXTINGUISHER
- ASSEMBLY AREA
- FIRE EXTINGUISHER CABINET
- FIRE VALVE CABINET
- 1 HR RATED ASSEMBLY
- 2 HR RATED ASSEMBLY
- 3 HR RATED ASSEMBLY

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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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

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Date: 2023.06.14 17:34:48-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

LIFE SAFETY PLAN

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A010

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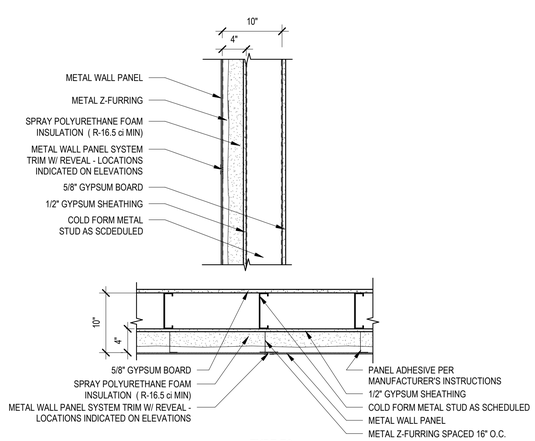
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ARCHITECTURE
CERT. NO. 51098
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:34:49-04'00'

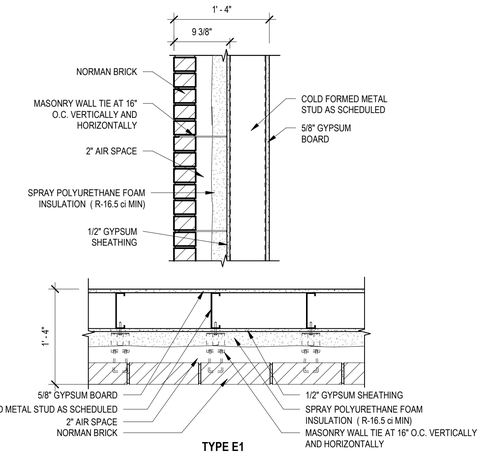
TYPE R1

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



TYPE E2

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		
	E2D-1	4"	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 - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

EXTERIOR WALL TYPES

ISSUE DATE 06/14/2023
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SHEET BY AVB
PROJECT NUMBER 21-010

A030

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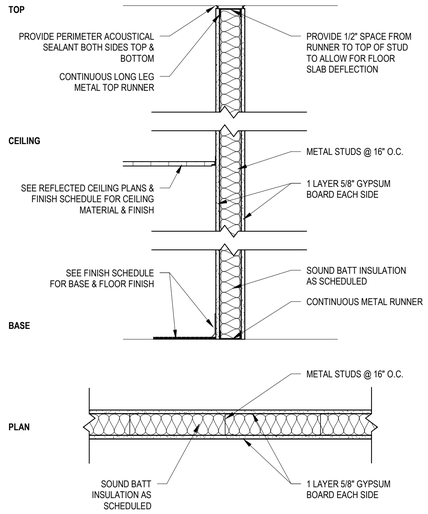
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MOORESVILLE, N.C.

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Frank A. Little Date: 2023.08.16 18:16:02-04'00'

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 Large Clinical Flex room side of wall

G4

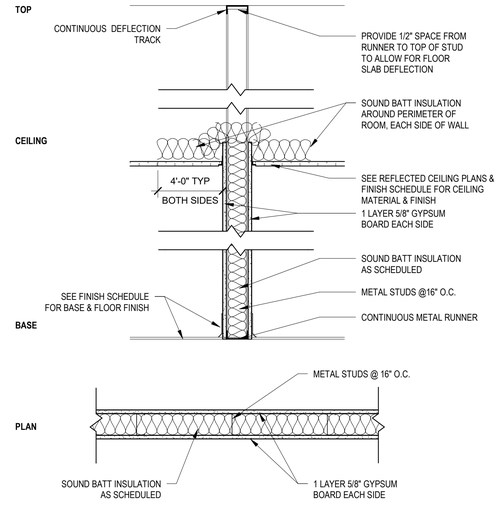
SCALE 1" = 1'-0"



GYPSUM TO STRUCTURE PARTITION TYPE	TYPE	FRAMING WIDTH	FIRE RATING	STC RATING	INSULATION	COMMENTS
	G2B-0	3 5/8"	0 hr	48	3"	
	G2D-0	6"	0 hr	48	3"	

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 Wallboard - 4" above ceiling partition type
	G1D-0	6"	0 hr	48	3"	Gypsum Wallboard - 4" above ceiling partition type
	G1G-0	3 5/8"	0 hr	48	3"	Furred out Gypsum Wallboard on one side. 4" above ceiling partition type

G1

SCALE 1" = 1'-0"

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

INTERIOR PARTITION TYPES

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A040

STANDARD ABBREVIATIONS

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

neighboring concepts

1635 West Trade Street, Suite 1A
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www.neighboringconcepts.com

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NEIGHBORING CONCEPTS, PLLC
CERTIFICATE OF AUTHORIZATION
CERT. NO. S1098
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:50-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

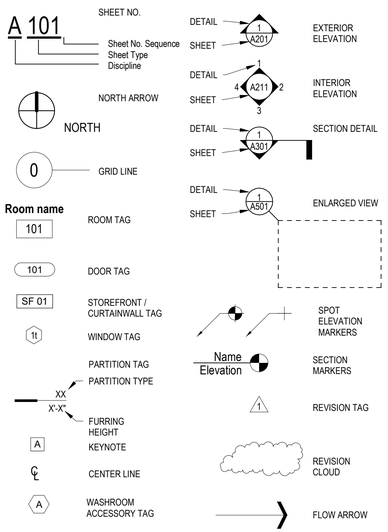
STANDARD INFORMATION

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

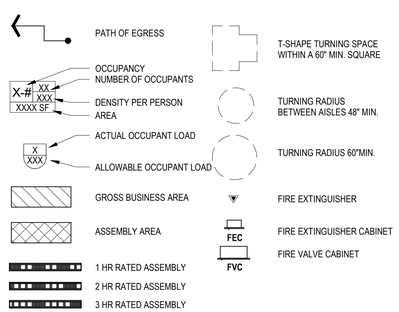
A050

GENERAL SYMBOL LEGEND

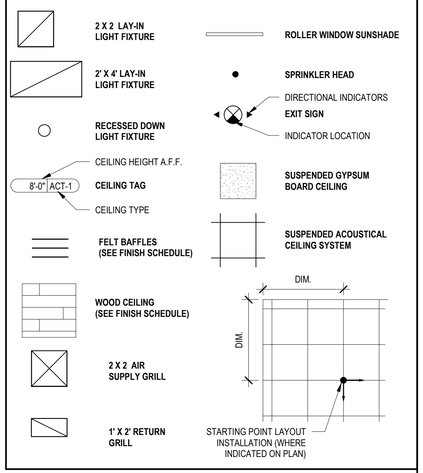
SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS



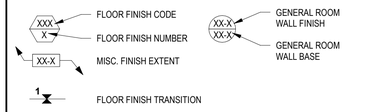
LIFE SAFETY SYMBOL LEGEND



REFLECTED CEILING SYMBOL LEGEND



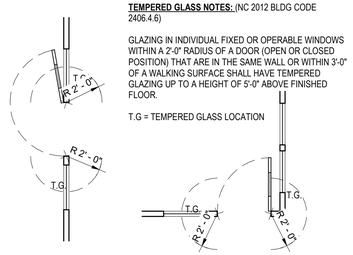
FINISH SYMBOL LEGEND



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

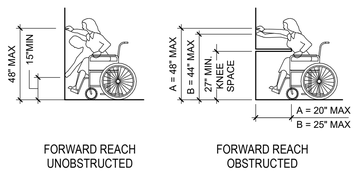


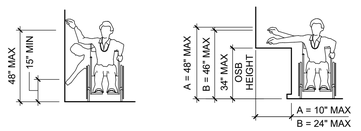
TEMPERED GLASS NOTES: (NC 2012 BLDG CODE 2406.4.6)

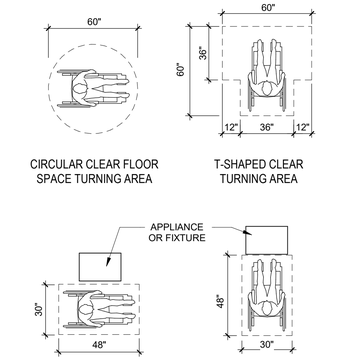
GLAZING IN INDIVIDUAL FIXED OR OPERABLE WINDOWS WITHIN A 2'-0" RADIUS OF A DOOR (OPEN OR CLOSED POSITION) THAT ARE IN THE SAME WALL OR WITHIN 3'-0" OF A WALKING SURFACE SHALL HAVE TEMPERED GLAZING UP TO A HEIGHT OF 5'-0" ABOVE FINISHED FLOOR.

T.G = TEMPERED GLASS LOCATION

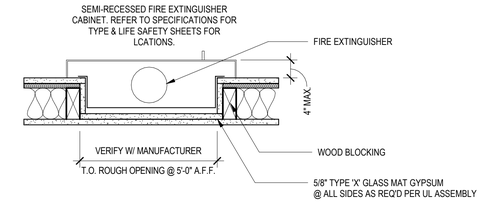
ACCESSIBILITY REQUIREMENTS





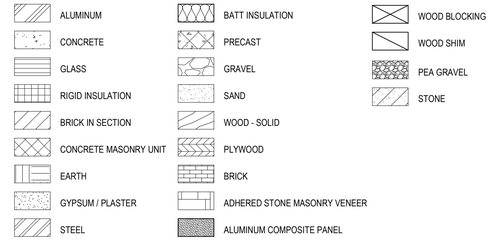


TYPICAL RECESSED F.E. CABINET DETAIL



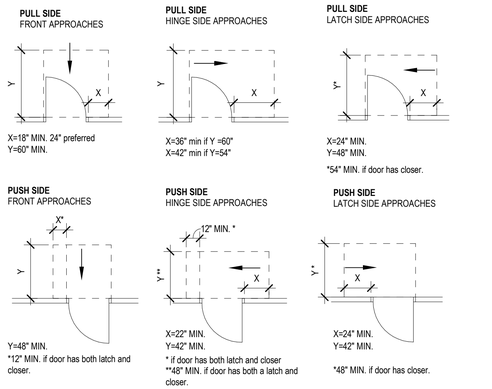
MAINTAIN THE INTEGRITY OF FIRE RATED CONSTRUCTION @ ALL EXTINGUISHER CABINETS

MATERIALS LEGEND

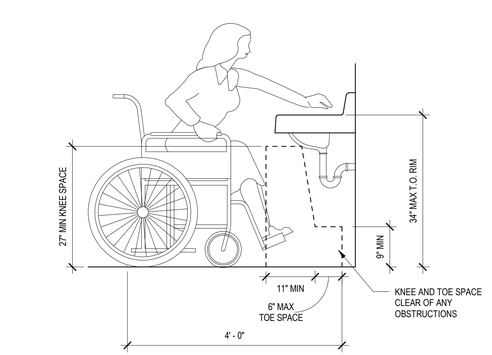


DOOR APPROACH ACCESSIBILITY REQUIREMENTS

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.



SINK KNEE AND TOE ACCESSIBLE REQUIREMENTS



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NEIGHBORING CONCEPTS PLLC — CERT. NO. 51098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:34:50-04'00'

Novant Family Medical Clinic - North Wilmington

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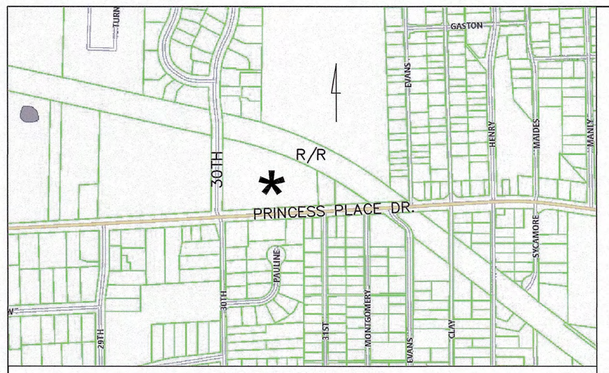
No.	Description	Date

CONSTRUCTION DOCUMENTS

STANDARD INFORMATION

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

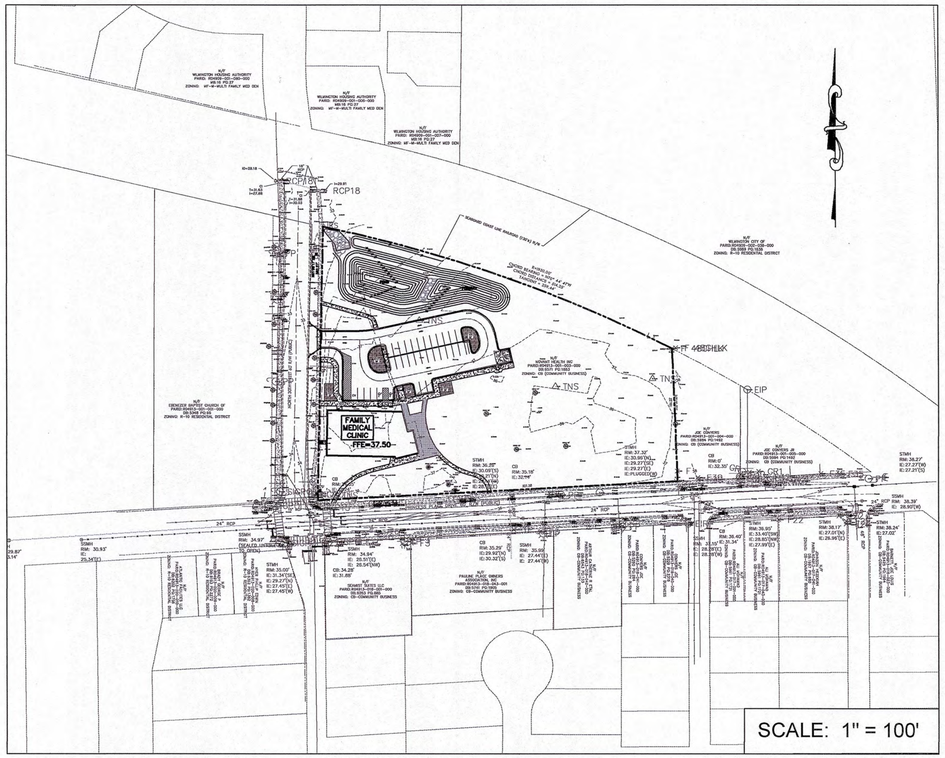
A051



LOCATION MAP NTS

NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON

AT 3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405
CIVIL/SITE DOCUMENTS
APRIL 5, 2023



RECEIVED
By Jeff Walton at 11:56 am, Apr 05, 2023

INDEX OF SHEETS

	COVER SHEET
C0	OVERALL PLAN
C1	SITE INVENTORY/TREE REMOVAL PLAN
C2	GRADING, DRAINAGE, & EROSION CONTROL PLAN
C3	UTILITY PLAN
C4	LAYOUT PLAN
C5	PRE-DRAINAGE AREA PLAN
C6	POST-DRAINAGE AREA PLAN
C7	NOTES & DETAILS
C8	NOTES & DETAILS
C9	NOTES & DETAILS
C10	NOTES & DETAILS
C11	NOTES & DETAILS
C12	VEHICLE TACKING PLAN

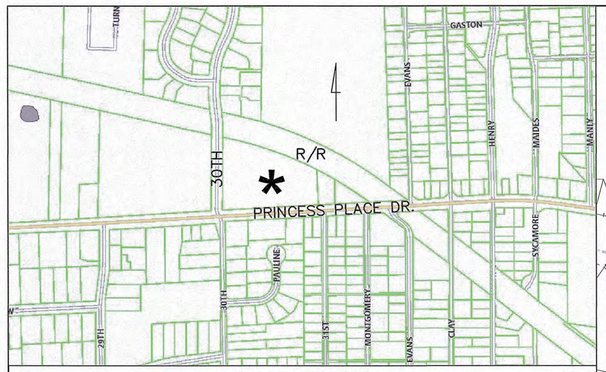
CIVIL ENGINEER:
NORRIS & TUNSTALL
CONSULTING ENGINEERS,PC
2602 IRON GATE DR. SUITE 102
WILMINGTON, NC 28412
(910) 343-9653

SURVEYOR
SEPI
1 GLENWOOD AVE. SUITE 600
RALEIGH, NC 27603
(919) 789-9977

ARCHITECT
NEIGHBORING CONCEPTS
1635 W TRADE ST. SUITE 1A
CHARLOTTE, NC 28216
(704) 594-7977

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

23010



LOCATION MAP NTS

- PROPERTY LINE
- DISTURBED AREA LIMITS
- 35 PROPOSED CONTOUR
- TEMPORARY SILT FENCE
- PROPOSED STORMDRAIN PIPE
- 8W PROPOSED WATERLINE
- SS PROPOSED SANITARY SEWER
- 41.35 PROPOSED SPOT ELEVATION FLOW LINE
- 41.85 PROPOSED SPOT ELEVATION TOP OF CURB
- 41.85 PROPOSED SPOT ELEVATION FINISH GRADE
- BUBBLER BOX
- FLARED END SECTION WITH RIP-RAP ENERGY DISSIPATOR
- DI DROP INLET WITH INLET PROTECTION (DI)
- CI CURB INLET WITH INLET PROTECTION (CI)
- JB JUNCTION BOX WITH INLET PROTECTION (JB)
- PROPOSED FIRE HYDRANT
- 49 EXISTING CONTOUR
- 13"PINE EXISTING TREE TO BE SAVED
- 13"PINE EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCING
- ASPHALT
- SIDEWALK
- INTERIOR LANDSCAPING
- HARDSCAPE MATERIAL

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909-001-007-000
MB:16 PG:27
ZONING: MF-M-MULTI FAMILY MED DEN

NOTE:

SURVEY BY SEPI, INC. & PROVIDED BY OWNER. PER SURVEYOR, SITE IS NOT LOCATED WITHIN 100 YEAR FLOOD PLAIN BOUNDARY. *CONFIRM NOTE ON PDF.
SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION ZONE X (AREA TO BE OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP NO. 3720313800K PANEL 3138 WITH A DATE OF IDENTIFICATION OF AUGUST 28, 2018, IN NEW HANOVER COUNTY, STATE OF NORTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

SEABOARD COAST LINE RAILROAD (130'±) R/W

CHORD BEARING = N70° 44' 41"W
CHORD DISTANCE = 514.25'
TANGENT = 259.44'
R=1930.00'

I=29.91
RCP18

NOTO8 PTE
382.27'

POND

FOREBAY

491 SF
647 SF
333 SF
240 SF
333 SF
EV

FAMILY MEDICAL CLINIC
FFE=37.50

NORTH 30TH STREET 60' R/W (PUBLIC)

PRINCESS PLACE DRIVE 60' R/W (PUBLIC)

501.38'
S85°57'58"W

N/F
EBENEZER BAPTIST CHURCH OF
PARID: R04913-001-001-000
DB: 5348 PG: 66
ZONING: R-10 RESIDENTIAL DISTRICT

N/F
NOVANT HEALTH INC
PARID: R04913-001-003-000
DB: 6571 PG: 1883
ZONING: CB (COMMUNITY BUSINESS)

N/F
JOE CONYERS
PARID: R04913-001-004-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
JOE CONYERS JR
PARID: R04913-001-005-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
SEAMIST SUITES LLC
PARID: R04913-018-001-000
DB: 6263 PG: 885
ZONING: CB-COMMUNITY BUSINESS

N/F
PAULINE PLACE OWNERS ASSOCIATION, INC
PARID: R04913-018-043-001
DB: 5741 PG: 1905
ZONING: CB-COMMUNITY BUSINESS

N/F
ARTHUR CATHERINE R ETAL
PARID: R04913-018-042-000
DB: 6543 PG: 133
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-041-000
DB: 5260 PG: 284
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-040-000
DB: 5229 PG: 2316
ZONING: CB-COMMUNITY BUSINESS

N/F
JOHNSON, HEZE
PARID: R04913-017-
DB: 1997 PG: 6
ZONING: CB-COMMUNIT

SSMH
RIM: 34.97'
(SEALED UNABLE TO OPEN)

STMH
RIM: 35.00'
IE: 31.34'(SE)
IE: 29.27'(N)
IE: 27.45'(E)
IE: 27.45'(W)

SSMH
RIM: 34.94'
IE: 26.51'(E)
IE: 26.54'(NW)
CB: 34.28'
IE: 31.88'

CB
RIM: 34.05'
IE: 31.24'

CB
RIM: 35.29'
IE: 29.92'(N)
IE: 30.32'(S)

SSMH
RIM: 35.99
IE: 27.44'(E)
IE: 27.44'(W)

STMH
RIM: 36.25'
IE: 30.09'(S)
IE: 30.21'(N)
IE: 28.74'(W)
IE: 28.74'(E)

CB
RIM: 35.18'
IE: 32.14'

STMH
RIM: 37.32'
IE: 30.96'(N)
IE: 29.27'(SE)
IE: 29.27'(E)
IE: PLUGGED(W)

CB
RIM: 0'
IE: 32.35'

SSMH
RIM: 37.15'
IE: 28.28'(E)
IE: 28.28'(W)

CB
RIM: 36.40'
IE: 31.34'

STMH
RIM: 36.95'
IE: 33.40'(SW)
IE: 28.85'(NW)
IE: 27.99'(E)

STM
RIM
IE:
IE:

15" RCP
24" RCP
18" RCP

POND DESIGN

DRAINAGE AREA=148,104 SF
IMPERVIOUS:

• BUILDING=	7,500	SF
• ASPHALT, C&G=	18,632	SF
• SIDEWALK=	4,722	SF
• PATIO HARDSCAPE=	1,826	SF
• FUTURE=	10,320	SF
	43,000	SF

ON-SITE IMP. FLOWING OFFSITE

• ASPHALT, C&G=	1,100	SF
• SIDEWALK=	140	SF
	1,240	SF

SITE DATA TABLE

PARCEL ID#:	R04913-001-003-000
PARCEL PIN#:	313817.01.5709.000
PARCEL AREA:	3.4 ACRES (148,104 SF)
SITE ADDRESS:	3009 PRINCESS PLACE DR.
PARCEL OWNER:	NOVANT HEALTH, INC.
PROPOSED PARCEL USE:	MEDICAL OFFICE
CURRENT ZONING:	CB (COMMUNITY BUSINESS)
CAMA LAND CLASSIFICATION:	URBAN
SOIL TYPE:	On, Se, Wr

BUILDING SETBACKS:

FRONT SETBACK:	10'
INTERIOR SIDE SETBACK	10' OR 25' ADJ TO RESIDENTIAL
SIDE STREET SETBACKS	10'
REAR SETBACKS:	25'
BUILDING MAX HEIGHT:	45'

BUILDING SETBACKS PROPOSED: (CLOSEST POINT)

FRONT SETBACK:	52'
SIDE STREET SETBACK WEST:	11'
SIDE SETBACK EAST:	359'
REAR SETBACK:	232'

BUILDING INFORMATION:

TOTAL # OF BUILDINGS=	1
TOTAL # OF STORIES=	1
TOTAL SF OF BUILDINGS=	7,500 SF
BUILDING HEIGHT (MAX PEAK)=	24'-8"
BUILDING LOT COVERAGE=	5%
CONSTRUCTION TYPE:	2B

TOTAL EXISTING IMPERVIOUS: (ALL TO BE REMOVED)=802 SF

PROPOSED IMPERVIOUS: (ON-SITE)

SIDEWALK=	4,862	SF
BUILDING=	7,500	SF
ASPHALT, CONCRETE, CURB & GUTTER=	19,732	SF
PATIO HARDSCAPE=	1,826	SF
FUTURE=	10,320	SF
TOTAL PROPOSED IMPERVIOUS: (ON-SITE)=	44,240	SF

PROPOSED IMPERVIOUS: (OFF-SITE)

SIDEWALK=	116	SF
DRIVEWAY=	45	SF
TOTAL PROPOSED IMPERVIOUS: (OFF-SITE)=	607	SF
	652	SF

TOTAL PROPOSED IMPERVIOUS: (ON & OFF SITE)=44,892 SF

REQUIRED BICYCLE PARKING: 2 SP OR 5,000 SF=2
BICYCLE PARKING PROVIDED=5

REQUIRED PARKING PER CITY (MAXIMUM & MINIMUM):
MAXIMUM PARKING: 1SP/200SF=38
MINIMUM PARKING REQUIRED: 40% OF 38=15
(IF NEAR RESIDENTIAL ZONING, THE 40% OF THE PARKING MAX IS NOW MINIMUM REQUIRED PARKING OR 15 SPACES.
MOPED/MOTORCYCLE PARKS: REQUIRED 1/25 SP=2 SP REQUIRED.
PROPOSED MOPED/MOTORCYCLE PARKS=2 SPACES
EV PARKS (2% OF TOTAL)=1 REQUIRED; 1 PROPOSED

TOTAL PARKING PROVIDED:	32
REGULAR PARKS:	30
HC PARKS:	2
EV PARKS:	1
MOPED/MOTORCYCLE PARKS:	2

TRIP GENERATION: AM=24 PM=30 ADT=279

AREA OF DISTURBED LIMITS =2 ACRES

WATER & SEWER DEMAND: 3 DOCTORS X 250GPD/DOC=750 GPD

TRASH REMOVAL: DUMPSTER

SCALE: 1" = 30'
0 30 60 120

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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OVERALL PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY-ANNE PHILLIPS
DESIGN & CONSTRUCTION MANAGER OF OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-602-1611
MARY-ANNE.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD, NW
ASH, NC 28420
PHONE (910) 287-5900
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9633
Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 047001 JOHN P. NORRIS

C0

NOTE:

SURVEY BY SEPI, INC. & PROVIDED BY OWNER. PER SURVEYOR, SITE IS NOT LOCATED WITHIN 100 YEAR FLOOD PLAIN BOUNDARY. *CONFIRM NOTE ON PDF.
SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION ZONE X (AREA TO BE OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP NO. 3720313800K PANEL 3138 WITH A DATE OF IDENTIFICATION OF AUGUST 28, 2018, IN NEW HANOVER COUNTY, STATE OF NORTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

SOILS

SYMBOL	NAME	SOIL GROUP
On	ONSLOW	B
Se	SEAGATE	A/D
Wr	WRIGHTSBORO	C

PROTECTED TREES

SIGNIFICANT (CEDAR)	SIGNIFICANT (PECAN)
(3) 18"	(1) 21"
	(1) 36"
	(1) 46"
	(1) 48"

TREE TO BE REMOVED

30TH STREET OFF-SITE: STREET TREE

SIGNIFICANT (OAK)
(1) 18"

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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SITE INVENTORY/TREE REMOVAL PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEAL DRIVE
WINSTON-SALEM, NC 27103
843.602.1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2612 IRON CLUTCH DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9653
1429 ASHLEY LITTLE RIVER RD. NW
ASHLEY, NC 28420
PHONE (910) 287-5900
Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14961 JOHN S. TUNSTALL

SCALE: 1" = 30'
0 30 60 120

C1

SURFACE AREA

POND		POND & FORBAY		FORBAY	
25=443	SF	32=7,470	SF	28=67	SF
26=898	SF	33=9,780	SF	29=283	SF
27=1,424	SF	34=11,346	SF	30=798	SF
28=2,023	SF	35=12,969	SF	31=1,455	SF
29=2,693	SF	36=14,647	SF		
30=3,429	SF				
31=4,225	SF				

NOTES:
1) SITE MUST CONFORM TO ALL ADA REGULATIONS. MAX. LONGTUDINAL SLOPE ON ADA ACCESS IS 5% (1'V:20'H) & MAX. CROSS SLOPE IS 2% (1/4" PER FOOT)
2) ALL ROOF DRAIN DOWNSPOUTS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM, UNLESS OTHERWISE NOTED. ALL DOWNSPOUTS SHALL HAVE AIR GAPS/OVERFLOWS PRIOR TO CONNECTING TO HEADER STORM DRAIN OR TO STORM DRAINAGE SYSTEM.
3) CLEANOUTS ARE REQUIRED AT ALL JUNCTIONS AND ENDS OF ROOF DRAINAGE SYSTEM.
4) ALL ROOF DRAINAGE PIPING SHALL BE C900 PVC OR HDPE.
5) ROOF DRAINAGE PIPING MAY BE FIELD ADJUSTED TO AVOID TREES AND PER LANDSCAPE PLAN.
6) BUILDING CONDENSATE DRAINS SHALL NOT CONNECT TO THE SD SYSTEM UNLESS DESIGNED AND ANALYZED BY MEP.
7) NO PARKING SPACES, FENCES, WALKS, POSTS, LIGHTS, SHRUBS TREES OR OTHER TYPE OF OBSTRUCTIONS NOT SPECIFICALLY EXEMPTED SHALL BE PERMITTED IN THE SPACE BETWEEN 30 INCHES ABOVE GROUND AND 10' ABOVE GROUND LEVEL WITHIN A TRIANGULAR SIGHT DISTANCE.
8) FINAL SITE LIGHTING PLAN TO BE PROVIDED BY DUKE ENERGY AND PER COW REQUIREMENTS.
9) CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
10) LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
11) ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
12) CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDING THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
13) NEW HYDRANTS MUST BE BROUGHT INTO SERVICES PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
14) PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

NOTES ON DETECTABLE WARNING FOR WHEEL CHAIR RAMPS

1. RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES:
2. THE DETECTABLE WARNINGS AT CURB RAMPS SHALL BE 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
3. MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.
4. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% – REFER TO ADA GUIDELINES FOR DEFINITION OF "CONTRAST".
5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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GRADING, DRAINAGE, & EROSION CONTROL PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
336-970-1611
MARY-PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9633
1429 ASH-LITTLE RIVER RD., NW
ASH, NC 28420
PHONE (910) 287-5900

Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19861 JOHN P. NORRIS, JR. TUNSTALL

C2

SCALE: 1" = 30'
0 30 60 120

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909-001-007-000
MB: 16 PG: 27
ZONING: MF-M-MULTI FAMILY MED DEN

SEABOARD COAST LINE RAILROAD (130'±) R/W

N/F
WILMINGTON CITY OF
PARID: R04909-002-038-000
DB: 5989 PG: 1638
ZONING: R-10 RESIDENTIAL DISTRICT

I=28.18
18" RCP
CI
T=31.63
I=27.88
I=29.91
RCP18
CI
T=31.88
I=30.03

R=1930.00'
CHORD BEARING = N70° 44' 41"W
CHORD DISTANCE = 514.25'
TANGENT = 259.44'

N01°08'17"E 382.27'

POND
FOREBAY
25' REAR SETBACK
49 SF
647 SF
240 SF
33.3 SF
EV

N/F
NOVANT HEALTH INC
PARID: R04913-001-003-000
DB: 6571 PG: 1885
ZONING: CB (COMMUNITY BUSINESS)

NORTH 30TH STREET 60' R/W (PUBLIC)

N/F
EBENEZER BAPTIST CHURCH OF
PARID: R04913-001-001-000
DB: 5348 PG: 66
ZONING: R-10 RESIDENTIAL DISTRICT

FAMILY MEDICAL CLINIC
FFE=37.50

2" SERVICE SADDLE & GV
2" WATER METER
2" DW
2" RPZ
2" DW
REMOVE & REPLACE EXISTING SIDEWALK & ASPHALT AS REQUIRED TO INSTALL NEW WATER SERVICE.
EXISTING FIRE HYDRANT
SSCO I=34.5
6" SS @ 1% SLOPE MIN.
11' SIDE SETBACK
10' FRONT SETBACK
SSCO I=33.75
6" SS OVER 24" RCP
REMOVE & REPLACE EXISTING SIDEWALK & ASPHALT AS REQUIRED TO INSTALL NEW SEWER SERVICE.
CORE NEW 6" SS INTO SSMH I=31.5

PRINCESS PLACE DRIVE 60' R/W (PUBLIC)

15" RCP
24" RCP
18" RCP
24" RCP
24" RCP
4" RCP

SSMH
RIM: 34.97'
(SEALED UNABLE TO OPEN)

STMH
RIM: 35.00'
IE: 31.34'(SE)
IE: 29.27'(N)
IE: 27.45'(E)
IE: 27.45'(W)

SSMH
RIM: 34.94'
IE: 26.51'(F)
IE: 26.54'(NW)

CB: 34.28'
IE: 31.88'

N/F
SEAMIST SUITES LLC
PARID: R04913-018-001-000
DB: 6263 PG: 885
ZONING: CB COMMUNITY BUSINESS

STMH
RIM: 36.26'
IE: 30.09'(S)
IE: 30.21'(N)
IE: 28.15'(E)

CB
RIM: 35.18'
IE: 32.14'

CB
RIM: 35.29'
IE: 29.92'(N)
IE: 30.32'(S)

SSMH
RIM: 35.99'
IE: 27.44'(E)
IE: 27.44'(W)

N/F
PAULINE PLACE OWNERS ASSOCIATION, INC
PARID: R04913-018-043-001
DB: 5741 PG: 1905
ZONING: CB-COMMUNITY BUSINESS

N/F
ARTHUR CATHERINE R ETAL
PARID: R0493-018-042-000
DB: 6543 PG: 133
ZONING: CB-COMMUNITY BUSINESS

N/F
JOE CONYERS
PARID: R04913-001-004-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

STMH
RIM: 37.32'
IE: 30.96'(N)
IE: 29.27'(SE)
IE: 29.27'(E)
IE: PLUGGED(W)

CB
RIM: 0'
IE: 32.35'

N/F
JOE CONYERS JR
PARID: R04913-001-005-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

10' SIDE SETBACK
186.22'
S30°20'23"E
501.38'
S85°57'58"W
EXISTING FIRE HYDRANT

CB
RIM: 36.40'
IE: 31.34'

SSMH
RIM: 37.15'
IE: 28.28'(E)
IE: 28.28'(W)

STMH
RIM: 36.95'
IE: 33.40'(SW)
IE: 28.85'(NW)
IE: 27.99'(E)

N/F
JOE CONYERS
PARID: R04913-018-040-000
DB: 5229 PG: 216
ZONING: CB-COMMUNITY BUSINESS

N/F
JOE CONYERS
PARID: R04913-018-040-003
DB: 5260 PG: 284
ZONING: CB-COMMUNITY BUSINESS

N/F
ALI MOHAMMED
PARID: R04913-
DB: 5961
ZONING: CB-COMM

N/F
PARID: R04913-
DB: 5961
ZONING: CB-COM

N/F
JOHNSON -EZE
PARID: R04913-017-
DB: 1997 PG: 6
ZONING: CB-COMMUNIT

N/F
ATLANTIC FACILITIES
PARID: R0493-020-017
DB: 6202 PG: 417
ZONING: R-10 RESIDENTIAL

N/F
BRADY GEORGE P
PARID: R04913-020-002
DB: 6162 PG: 1827
ZONING: R-10 RESIDENTIAL

N/F
HYER PHILLIP E JR
PARID: R04913-020-003
DB: 6362 PG: 1581
ZONING: R-10 RESIDENTIAL

ANGLE IRON FENCE POST

SCALE: 1" = 30'
0 30 60 120

NOTES:

1) FIRE HYDRANTS TO BE INSTALLED PER CFPUA STANDARDS.
2) THE CONTRACTOR WILL MAINTAIN ALL-WEATHER EMERGENCY ACCESS TO CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION.
3) ALL SANITARY SEWER SERVICES SHALL BE 6" C900 PVC WITH A MINIMUM SLOPE OF 1%.
4) ALL WATERLINES SHALL BE INSTALLED SO THAT THE MINIMUM DEPTH OF COVER IS 30".
5) BACKFLOW PREVENTION DEVICES MUST MEET THE ASSE STANDARDS OR BE ON THE USC APPROVED LIST AND ALSO MEET AWWA STANDARDS. BFP'S MUST BE INSTALLED PER RULE 0.0406 (B)(4)(F).
6) LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
7) WATERLINE EXTENSION MUST REMAIN A MINIMUM OF 10 FEET AWAY FROM SSFM.
8) SECTION 510 STUDY WILL BE REQUIRED-EMERGENCY FIRST RESPONDER RADIO COVERAGE.
9) BUILDING INFORMATION SIGNAGE IS REQUIRED PER APPENDIX J OF THE FIRE CODE.

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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UTILITY PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY-ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-802-1811
MARY-PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
26021 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9653
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900
Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030361 JOHN P. LIMINTANG
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 1997 JOHN S. TUNSTALL

C3

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909-001-007-000
MB: 16 PG: 27
ZONING: MF-M-MULTI FAMILY MED DEN

SEABOARD COAST LINE RAILROAD (130'±) R/W

N/F
WILMINGTON CITY OF
PARID: R04909-002-038-000
DB: 5989 PG: 1638
ZONING: R-10 RESIDENTIAL DISTRICT

NOTES:

1) ANY REQUIRED INSTALLATION OR RELOCATION OF TRAFFIC SIGNS/PAVEMENT MARKINGS IS THE RESPONSIBILITY OF THE PROJECT DEVELOPER. PLEASE COORDINATE WITH CITY TRAFFIC SIGNS AND PAVEMENT MARKINGS MANAGER/SUPERVISOR PRIOR TO INSTALLATION/RELOCATION OF ANY TRAFFIC SIGNS OR MARKINGS IN EXISTING OR PROPOSED PUBLIC ROW.
2) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3) ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
4) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
5) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
6) ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
7) CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.
8) CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.

* PROPOSED SITE LIGHTING

(NOTE: FINAL SITE LIGHTING PLAN TO BE PROVIDED BY DUKE ENERGY & MUST MEET CITY OF WILMINGTON REQUIREMENTS.)

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

©2020 NORRIS & TUNSTALL

LAYOUT PLAN

NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF
CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-602-1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9653
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19867 JOHN S. TUNSTALL

C4

SCALE: 1" = 30'
0 30 60 120

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909 001-007-000
MB:16 PG:27
ZONING: MF-M-MULTI FAMILY MED DEN

①	**PRE DRAINAGE AREAS** TOTAL AREA= 13,704 SF 79% 'A' SOILS (SE)= 10,827 SF 21% 'B' SOILS (ON)= 2,877 SF
②	**PRE DRAINAGE (TOWARD RR)** TOTAL AREA= 46,487 SF 50% 'A' (SE)= 22,551 SF 40% 'B' (ON)= 18,876 SF 10% C' (WR)= 5,060 SF

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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PRE-DRAINAGE AREA PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-802-1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-0653
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037570 JOSEPH P. TUNSTALL

C5

SCALE: 1" = 30'
0 30 60 120

Wr
Se
On
Se

SEABOARD COAST LINE RAILROAD (130'±) R/W

R=1930.00'
CHORD BEARING = N70° 44' 41"W
CHORD DISTANCE = 514.25'
TANGENT = 259.44'

N/F
WILMINGTON CITY OF
PARID: R04909 002-038-000
DB: 5989 PG: 1638
ZONING: R-10 RESIDENTIAL DISTRICT

N/F
NOVANT HEALTH INC
PARID: R04913-001-003-000
DB: 6571 PG: 1883
ZONING: CB (COMMUNITY BUSINESS)

N/F
EBENEZER BAPTIST CHURCH OF
PARID: R04913-001-001-000
DB: 5348 PG: 56
ZONING: R-10 RESIDENTIAL DISTRICT

NORTH 30TH STREET 60' R/W (PUBLIC)

PRINCESS PLACE DRIVE 60' R/W (PUBLIC)

N/I
JOE CONYERS
PARID: R04913-001-004-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
JOE CONYERS JR
PARID: R04913-001-005-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
SEAMIST SUITES LLC
PARID: R04913-018-00'-000
DB: 6263 PG: 885
ZONING: CB-COMMUNITY BUSINESS

N/F
PAULINE PLACE OWNERS ASSOCIATION, INC
PARID: R04913-018-043.001
DB: 5741 PG: 1905
ZONING: CB-COMMUNITY BUSINESS

N/F
ARTHUR CATHERINE R ETAL
PARID: R0491 3-018-044-000
DB: 6547 PG: 135
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-041-000
DB: 5260 PG: 284
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-040-000
DB: 5229 PG: 236
ZONING: CB-COMMUNITY BUSINESS

N/F
ALI MOHAMMED
PARID: R04913-017-
DB: 5961
ZONING: CB-COMMUNITY BUSINESS

N/F
JOHNSON HEZE
PARID: R0491 3-017-
DB: 1997 PG: 6
ZONING: CB-COMMUNITY BUSINESS

N/F
BRADY GEORGE
PARID: R0491 3-020-
DB: 1616
ZONING: R-10 RESIDENTIAL

N/F
HYER PHILLIP EDWARD
PARID: R04913-020-
DB: 6362 PG: 1
ZONING: R-10 RESIDENTIAL

N/F
ATLANTIC FACILITIES
PARID: R0491 3-020-
DB: 6202 PG: 177
ZONING: R-10 RESIDENTIAL

10=78.18
18" RCP
CI
T 31.63
I=27.88
I=29.91
RCP18
CI
T=31.88
I=30.03
N01°08'17"E
382.27'
EXISTING ASPHALT
EXISTING FIRE HYDRANT
EXISTING FIRE HYDRANT
POWER POLE
CB
RIM: 34.05'
IE: 31.24'
STMH
RIM: 36.26'
IE: 30.09'(S)
IE: 30.21'(N)
IE: 28.14'(W)
IE: 28.11'(E)
CB
RIM: 35.18'
IE: 32.14'
501.38'
S85°57'56"W
STMH
RIM: 37.32'
IE: 30.96'(N)
IE: 29.27'(SE)
IE: 29.27'(E)
IE: PLUGGED(W)
CB
RIM: C'
IE: 32.55'
186.22
S02°02'04"E
SSMH
RIM: 34.97'
(SEALED UNABLE TO OPEN)
SSMH
RIM: 34.94'
IE: 26.51'(E)
IE: 26.5'(NW)
CB: 34.28'
IE: 31.88'
CB
RIM: 35.29'
IE: 29.92'(N)
IE: 30.32'(S)
SSMH
RIM: 35.99'
IE: 27.44'(E)
IE: 27.44'(W)
CB
RIM: 36.40'
IE: 31.34'
SSMH
RIM: 37.15'
IE: 28.28'(F)
IE: 28.28'(W)
STMH
RIM: 36.95'
IE: 33.40'(SW)
IE: 28.85'(NW)
IE: 27.99'(E)
STMH
RIM: 35.00'
IE: 31.34'(SF)
IE: 29.27'(N)
IE: 27.45'(F)
IE: 27.45'(W)
24" RCP
15" RCP
24" RCP
24" RCP
18" RCP
4" RCP
24" RCP

DA	TOTAL AREA
1	7,990 SF
2	7,016 SF
3	22,579 SF
4	1,677 SF
5	6,559 SF
6	7,500 SF

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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POST DRAINAGE AREA PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
DESIGN & CONSTRUCTION MANAGER OF
DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-802-1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9653
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049861 JOHN P. ELLIMAN JR. NORRIS & TUNSTALL

C6

SCALE: 1" = 30'
0 30 60 120

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909-001-007-000
MB: 16 PG: 27
ZONING: MF-M-MULTI FAMILY MED DEN

N/F
WILMINGTON CITY OF
PARID: R04909-002-038-000
DB: 5989 PG: 1638
ZONING: R-10 RESIDENTIAL DISTRICT

N/F
EBENEZER BAPTIST CHURCH OF
PARID: R04913-001-001-000
DB: 5348 PG: 66
ZONING: R-10 RESIDENTIAL DISTRICT

N/F
NOVANT HEALTH INC
PARID: R04913-001-003-000
DB: 6571 PG: 1883
ZONING: CB (COMMUNITY BUSINESS)

N/F
SEAMIST SUITES LLC
PARID: R04913-018-001-000
DB: 6263 PG: 885
ZONING: CB-COMMUNITY BUSINESS

N/F
PAULINE PLACE OWNERS
ASSOCIATION, INC
PARID: R04913 018 043-001
DB: 5741 PG: 1905
ZONING: CB-COMMUNITY BUSINESS

N/F
JOE CONYERS
PARID: R04913-001-004-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
JOE CONYERS JR
PARID: R04913-001-005-000
DB: 5984 PG: 1492
ZONING: CB (COMMUNITY BUSINESS)

POND DA

FAMILY MEDICAL CLINIC
FFE=37.50

POND

FOREBAY

DA-1
DA-2
DA-3
DA-4
DA-5
DA-6

BUBBLER BOX TOP @ 33.33' (SEE DETAIL)
(39')15" RCP
20' EMERGENCY SPILLWAY @ 34.55'
POND PRE-POST OUTLET STRUCTURE (SEE DETAIL)
12" CLB RIP-RAP OVER FABRIC TOP FOREBAY BERM @ 31.0'
24" FES IO=30.0' WITH 12'LX10'WX18"D CL 'B' RIP-RAP
POND WQ OUTLET STRUCTURE (SEE DETAIL)
(52")12" C900 PVC
(240")12" C900 PVC
(110')24" RCP
(41')15" RCP
(24")12" C900 PVC
24" RCP
18" RCP
EXISITNG CI T=34.05 I=31.24 (EXIST) I=31.5 (NEW 12" PVC)

IO=28.18
CI T=31.63 I=27.88
I=29.91
RCP18
CI I=31.88 I=30.03
CI-1 T=35.50 I=30.16
CI-2 T=35.50 I=30.97
DI-3 T=36.0 I=31.87
DI-4 T=34.75 I=31.20
CI-5 T=34.75 I=31.50
SDMH-10 T=34.2± I=31.80
DI-11 T=35.8± I=31.65

R=1930.00'
CHORD BEARING = N70° 44' 41"W
CHORD DISTANCE = 514.25'
TANGENT = 259.44'

SEABOARD COAST LINE R.R. (130'±) R/W

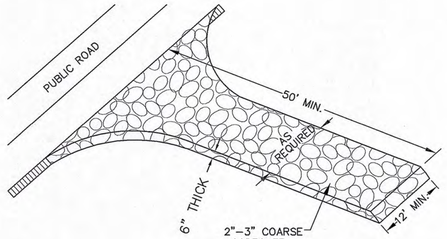
NORTH 30TH STREET 60' R/W (PUBLIC)
PRINCESS PLACE DRIVE 60' R/W (PUBLIC)

N07°08'17"E 382.27'
S02°20'23"E 186.22'
S58°37'36"E 501.38'

SSMH RIM: 34.97' (SEALED UNABLE TO OPEN)
SSMH RIM: 34.94' IE: 26.51'(E) IF: 26.54'(NW) CB: 34.28' IF: 31.88'
STMH RIM: 35.00' IE: 31.34'(SE) IE: 29.27'(N) IE: 27.45'(F) IE: 27.45'(W)
CB RIM: 35.29' IE: 29.92'(N) IE: 30.32'(S)
SSMH RIM: 35.99 IE: 27.44'(E) IE: 27.44'(W)
STMH RIM: 37.32' IE: 30.96'(N) IF: 29.27'(SE) IF: 29.27'(F) IE: PLUGGED(W)
CB RIM: 0' IE: 32.35'
CB RIM: 35.18' IE: 32.74'
CB RIM: 36.40' IE: 31.34'
SSMH RIM: 37.15' IE: 28.28'(E) IE: 28.28'(W)
STMH RIM: 36.95' IE: 33.40'(SW) IE: 28.85'(NW) IE: 27.99'(E)
STMH RIM: 36.26' IE: 30.09'(S) IE: 28.[illegible]'(N) IE: 28.[illegible]'(W)
CB RIM: 35.05' IE: 31.24'

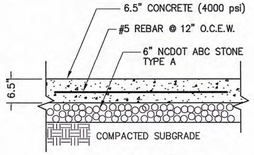
ATLANTIC FACILITIES PARID: R04913-020-[illegible] DB: 6202 PG: 177 ZONING: R-10 RESIDENTIAL
BRADY GEORGE PARID: R04913-020-003 DB: 6182 PG: 2272 ZONING: R-10 RESIDENTIAL
HYER PHILLIP EDW PARID: R04913-020-003 DB: 6382 PG: 362 ZONING: R-10 RESIDENTIAL
ARTHUR CATHERINE R ET AL PARID: R04913-018-042-000 DB: 6543 PG: 133 ZONING: CB-COMMUNITY BUSINESS
CONYERS JOE PARID: R04913-018-041-000 DB: 5260 PG: 284 ZONING: CB-COMMUNITY BUSINESS
CONYERS JOE PARID: R04913-018-040-000 DB: 5223 PG: 216 ZONING: CB-COMMUNITY BUSINESS
ALI MOHAMMED PARID: R04913-017-[illegible] DB: 5961 ZONING: CB-COMMUNITY BUSINESS
JOHNSON HEZE PARID: R04913-017-[illegible] DB: 199? PG: [illegible] ZONING: CB COMMUNITY

CALL 811 (3) WORKING DAYS BEFORE YOU DIG.



NOT TO SCALE

1 TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE



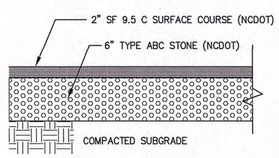
NOTES:
1. CONTROL JOINTS SHALL BE EVERY 15 FT. (MAX.) AND EXPANSION JOINTS SHALL BE EVERY 50 FT. (MAX).

1. PAVEMENT SECTIONS SHALL BE DETERMINED WITH CONSULTATION FROM THE GEOTECHNICAL ENGINEER AND ONLY PER THEIR RECOMMENDATIONS. PAVEMENT DETAIL SECTIONS SHOWN ARE MINIMUMS AND MAY BE STRENGTHENED PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

2. REFERENCE GEOTECHNICAL REPORT FOR UNDERCUTTING IN AREAS OF PROPOSED PARKING AND DRIVE AREAS. CONSULT WITH GEOTECHNICAL ENGINEER TO DETERMINE REQUIRED SUBGRADE UNDERCUTTING AND REPLACEMENT.

NOT TO SCALE

2 HEAVY DUTY CONCRETE PAVEMENT SECTION

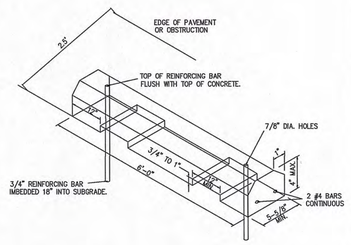


NOTES:
1. PAVEMENT SECTIONS SHALL BE DETERMINED WITH CONSULTATION FROM THE GEOTECHNICAL ENGINEER AND ONLY PER THEIR RECOMMENDATIONS. PAVEMENT DETAIL SECTIONS SHOWN ARE MINIMUMS AND MAY BE STRENGTHENED PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

2. REFERENCE GEOTECHNICAL REPORT FOR UNDERCUTTING IN AREAS OF PROPOSED PARKING AND DRIVE AREAS. CONSULT WITH GEOTECHNICAL ENGINEER TO DETERMINE REQUIRED SUBGRADE UNDERCUTTING AND REPLACEMENT.

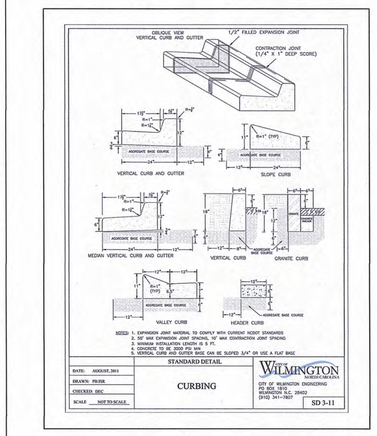
NOT TO SCALE

3 LIGHT DUTY ASPHALT PAVEMENT SECTION



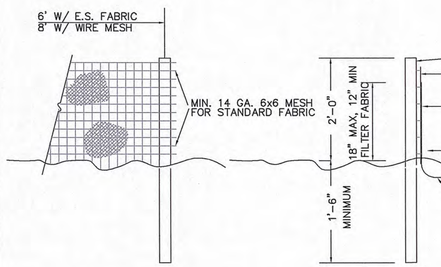
NOT TO SCALE

4 CONCRETE WHEEL STOPS



NOT TO SCALE

5 CURBING



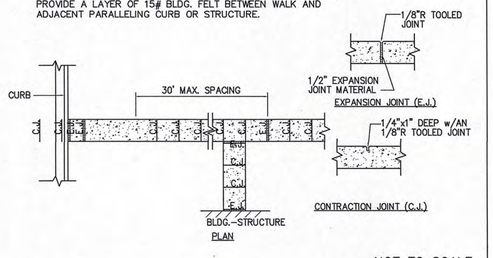
NOTES:

1. SYN. FENCE FABRIC SHALL BE MIN. OF 30" IN WIDTH WITH 30 LB/IN TENSILE STRENGTH FOR STANDARD FABRIC AND 50 LB/IN FOR EXTRA STRENGTH.
2. FABRIC SHALL BE CONTINUOUS LENGTH. IF JOINTS ARE NECESSARY, LAP FABRIC POST TO POST.
3. STEEL POST SHALL BE MIN 4' IN HEIGHT AND BE OF THE SELF–FASTENER STEEL ANGLE TYPE.

NOT TO SCALE

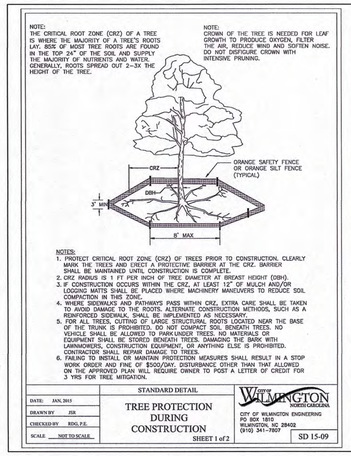
6 TEMPORARY SILT FENCE

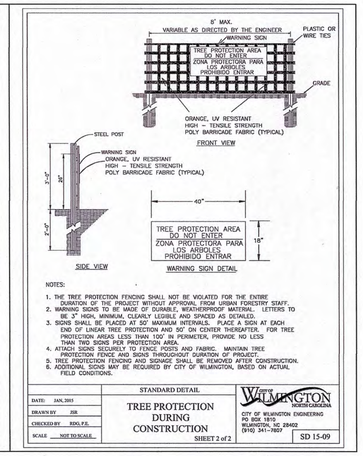
NOTES:
1. SIDEWALK THICKNESS SHALL BE 4" UNLESS NOTED OTHERWISE.
2. CONTRACTION JOINTS (C.J.) SPACE SAME AS SIDEWALK WIDTH.
3. THICKEN SIDEWALK TO 6" AT DRIVEWAYS.
4. THICKEN SIDEWALK TO 6" IN LAST 3' WHERE IT ABUTS PAVEMENT WITH NO CURB.
5. 1/2" EXPANSION JOINT (E.J.) AND SNAP CAP EXPANSION JOINT COVERS ARE REQUIRED AT 50' MAX. AT SIDEWALK JUNCTIONS, AT STRUCTURES, AND AS NOTED ON SITE PLAN. 6. PROVIDE A LAYER OF 15# BLDG. FELT BETWEEN WALK AND ADJACENT PARALLELING CURB OR STRUCTURE.



NOT TO SCALE

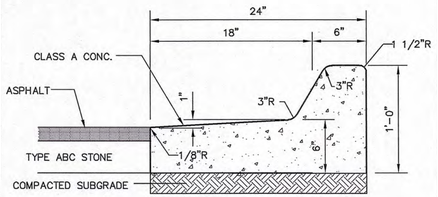
7 SIDEWALK JOINT DETAIL





NOT TO SCALE

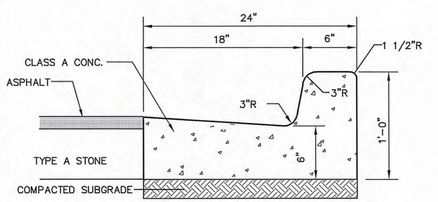
8 TREE PROTECTION



NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

NOT TO SCALE

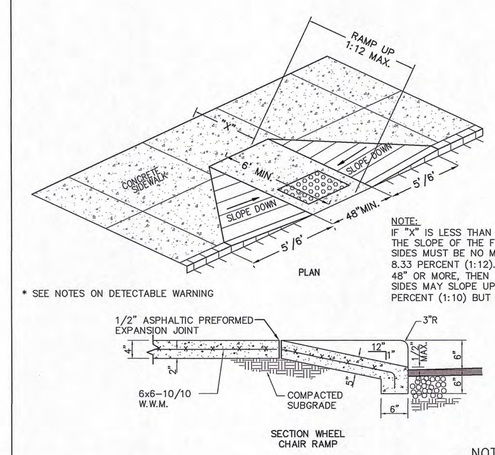
9 24" CURB AND GUTTER SECTION (SPILL-OFF)



NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

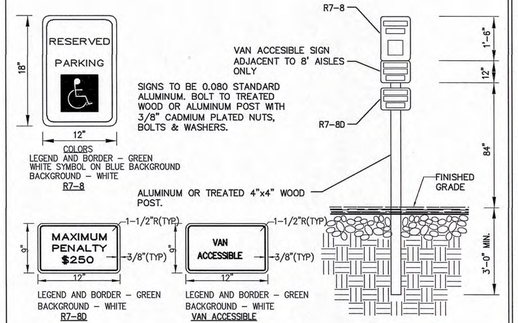
NOT TO SCALE

10 24" CURB AND GUTTER SECTION (FLOW-LINE)



NOT TO SCALE

11 SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL



NOT TO SCALE

12 TYPICAL HANDICAPPED SIGN DETAIL

Figure 3B-22. International Symbol of Accessibility Parking Space Marking



Figure 3B-22. International Symbol of Accessibility Parking Space Marking

NOT TO SCALE

13 HC PARKING SPACE MARKING

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.

2. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.

3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.

4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.

5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT–FILL COMPACTED AS SPECIFIED.

6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.

7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.

8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5" OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D–698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D–698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN–PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS.

9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.

10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.

11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY PARAMOUNTE ENGINEERING, AND PROVIDED BY OWNER.

12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.

13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.

14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.

15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.

16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.

17. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.

18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.

19. REINF. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS.

20. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYD, FS TT–P–115, TYPE III, FACTORY MIXED, QUICK DRYING, NON–BLEEDING.

21. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE, WATER AND ROOF DRAIN LINES.

NOTES & DETAILS
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF
NOVANT HEALTH, INC. OPERATIONS
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
843-602-1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE #102 WILMINGTON, NC 28412 PHONE (910) 343-9653
1429 ASH-LITTLE RIVER RD. NW ASH, NC 28420 PHONE (910) 287-5900

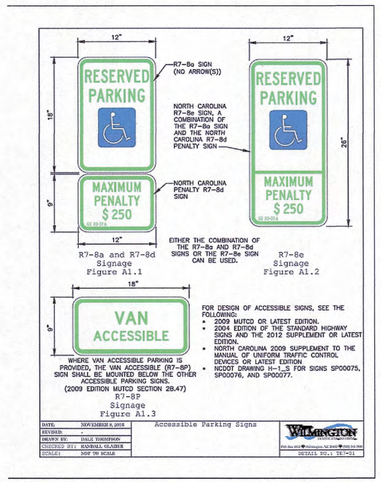
Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

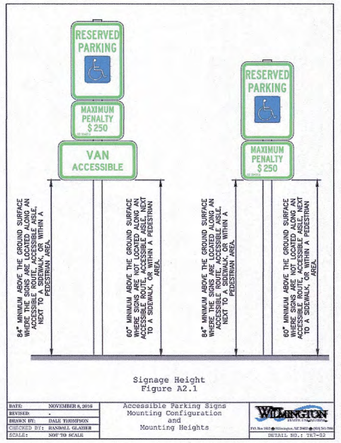
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19661 JOHN S. TUNSTALL

C7



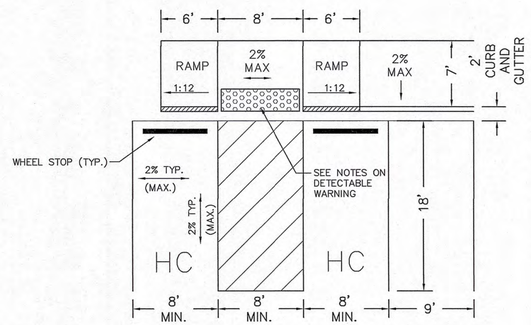
NOT TO SCALE

1 PARKING SIGNS DETAIL (TE7-01)



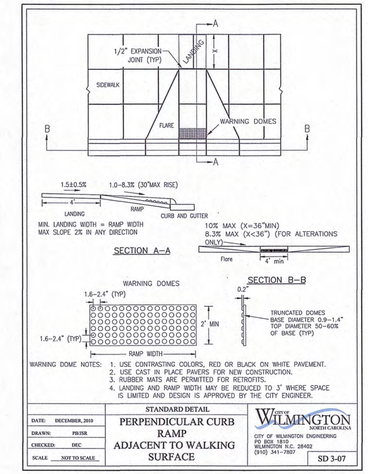
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2 PARKING SIGNS DETAIL (TE7-02)



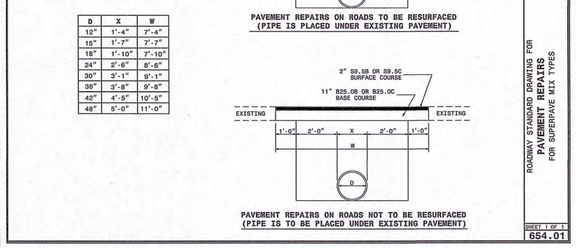
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3 SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL



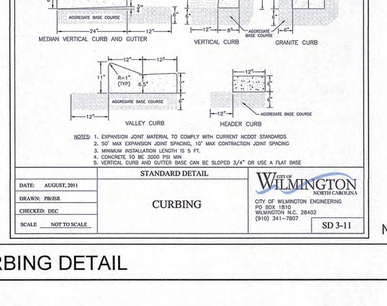
NOT TO SCALE

4 PERPENDICULAR RAMP ADJACENT TO WALKING SURFACE



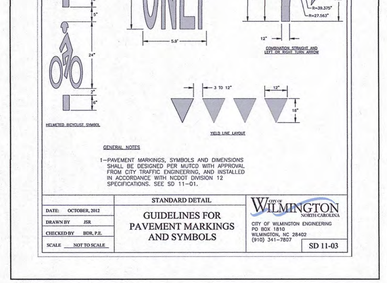
NOT TO SCALE

5 PAVEMENT REPAIRS



NOT TO SCALE

6 CROSSWALK PAVEMENT MARKINGS



NOT TO SCALE

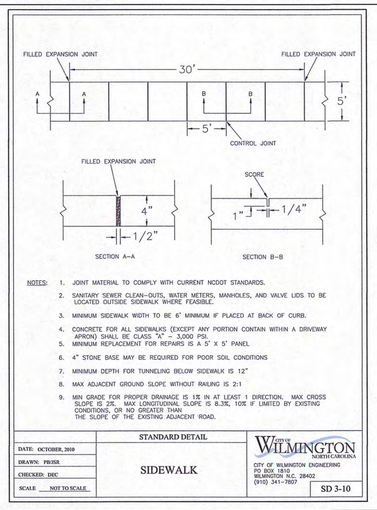
7 GUIDELINES FOR PAVEMENT MARKINGS AND SYMBOLS

1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.
2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.
3. Curbing, crosstiles, utility poles, etc., can be used as wheel stops. (Must be anchored down)
4. All medians shall be a minimum of six (6) feet wide.
5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.
6. All parking stall markings and lane arrows shall be white.
7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).
8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

STANDARD DETAIL
PARKING FACILITY DESIGN NOTES
DATE: 2001
DRAWN BY: JSR/CMS
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE
CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
SD 15-13

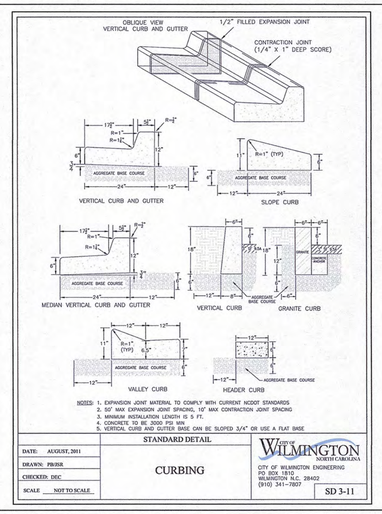
NOT TO SCALE

8 PARKING FACILITY DESIGN NOTES



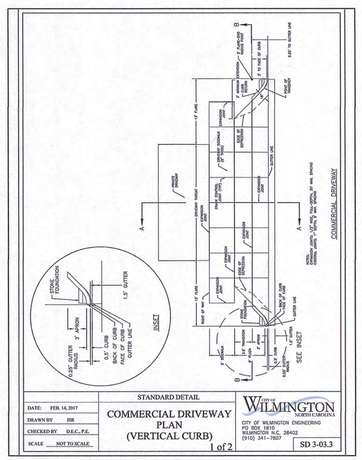
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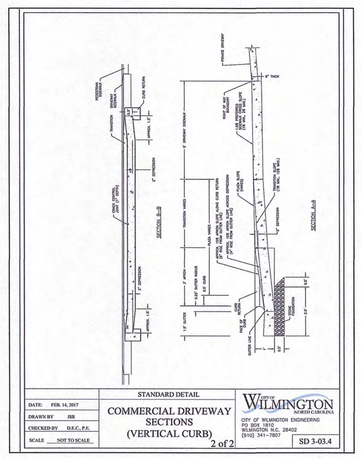
9 SIDEWALK DETAIL



NOT TO SCALE

10 CURBING DETAIL





NOT TO SCALE

11 COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)

NOTES & DETAILS
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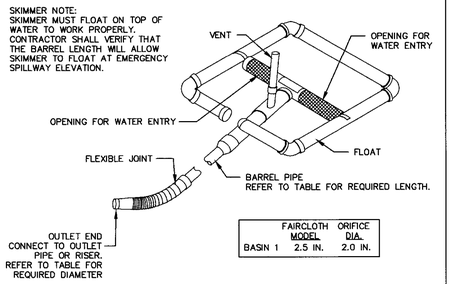
Licence #C-3641

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DES. JST
CKD. JPN
DRWN. TOM
DATE: 4/5/23

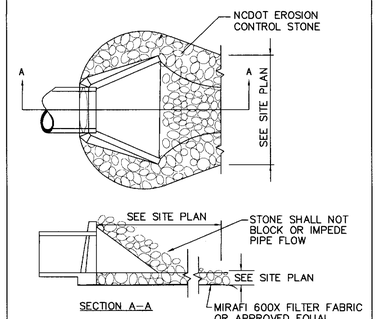
NORTH CAROLINA PROFESSIONAL SEAL 19861 ENGINEER JOHN S. TUNSTALL

C8



NOT TO SCALE

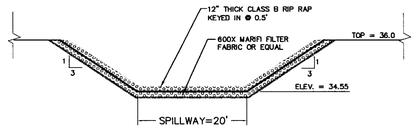
1 STANDARD SKIMMER DETAIL



NOTE: FILTER FABRIC AND STONE SHALL BE TOED UNDER FLARED END SECTION

NOT TO SCALE

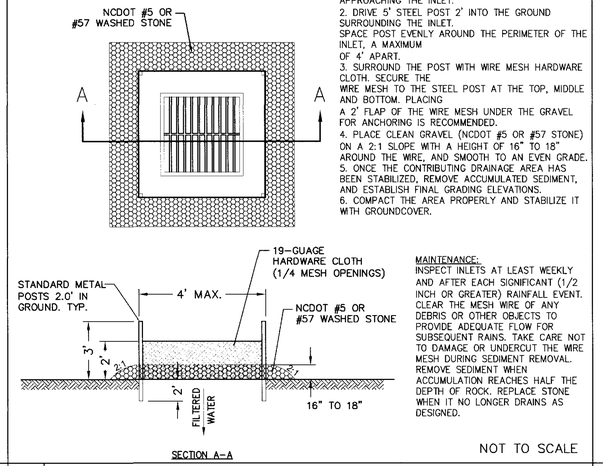
2 ENERGY DISSIPATOR



NOTE: A TEMPORARY SKIMMER TO BE EXTENDED THROUGH SPILLWAY DURING CONSTRUCTION AT ELEVATION -'

NOT TO SCALE

3 EMERGENCY SPILLWAY DETAIL

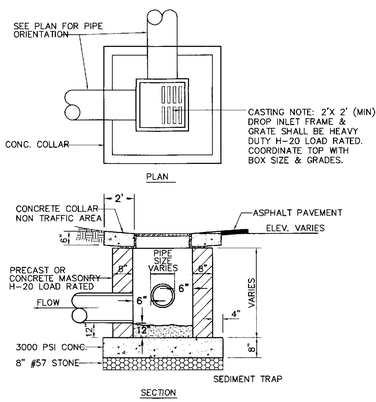


CONSTRUCTION SEQUENCE:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5' STEEL POST 2' INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2' FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16" TO 18" AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUNDCOVER.

MAINTENANCE:
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REMOVE SEDIMENT WHEN ACCUMULATION REACHES HALF THE DEPTH OF ROCK. REPLACE STONE WHEN IT NO LONGER DRAINS AS DESIGNED.

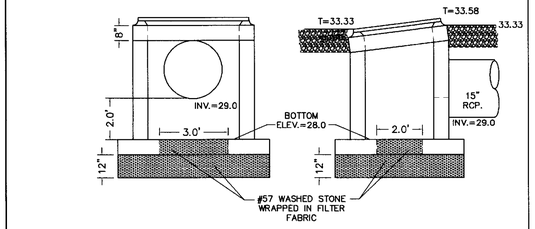
NOT TO SCALE

4 HARDWARE CLOTH AND GRAVEL INLET PROTECTION



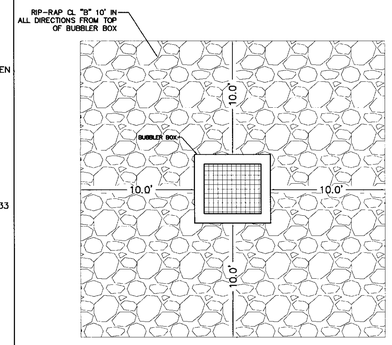
NOT TO SCALE

5 TYPICAL DROP INLET



NOT TO SCALE

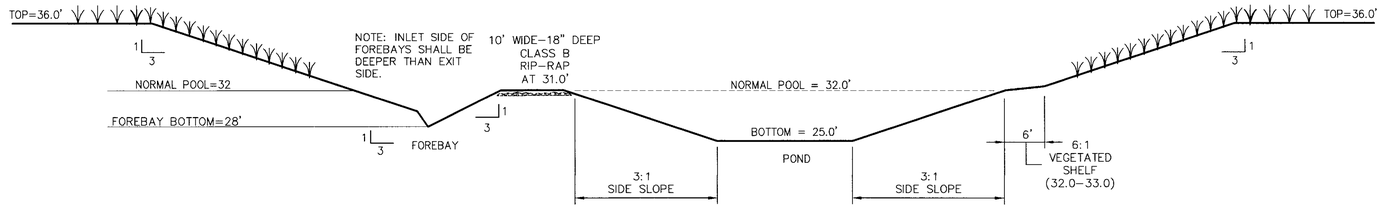
6 BUBBLER BOX BASIN B DETAIL BOX 4-1



RIP-RAP SHALL BE MIN. 24" DEEP WITH 600X MIRAFI FABRIC OR EQUAL.

NOT TO SCALE

7 BUBBLER BOX ENERGY DISSIPATOR

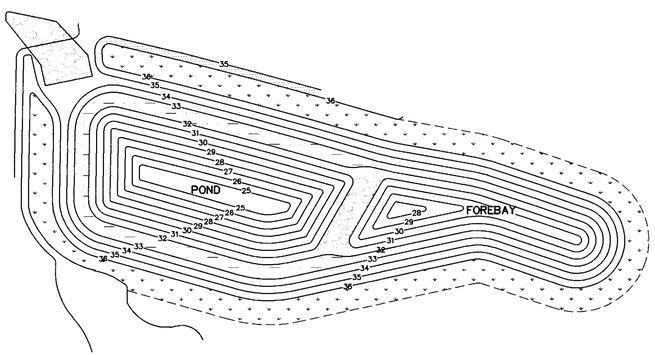


DETENTION POND NOTE:

POND CONTOURS ARE TO BE RESTORED TO DESIGN CONDITIONS ONCE THE SITE IS STABLE AND NO LONGER AN EROSION CONTROL SITE.

NOT TO SCALE

8 POND SECTION



POND PLANTING LEGEND:

TOP OF POND/BERM SHALL BE PLANTED WITH NON-CLUMPING TURF GRASS. TREES AND WOODY SHRUBS SHALL NOT BE ALLOWED. BERMUDA GRASS SOD SHALL BE PLANTED ON THE MAINTENANCE SHELF/BERM, OR THE BERM MAY BE MATTED AND SEEDED WITH BERMUDA GRASS SEED.

VEGETATED SHELF, 50 PLANTS PER 200 SF. PLANTS ARE TO BE EVENLY DISTRIBUTED AND SPACED AT 2' ON CENTER. PLANTS ARE TO BE SWAMP MILKWEED, SCARLET ROSE MALLOW, AND NARROW PLUMEGRASS. (BETWEEN 32-33)

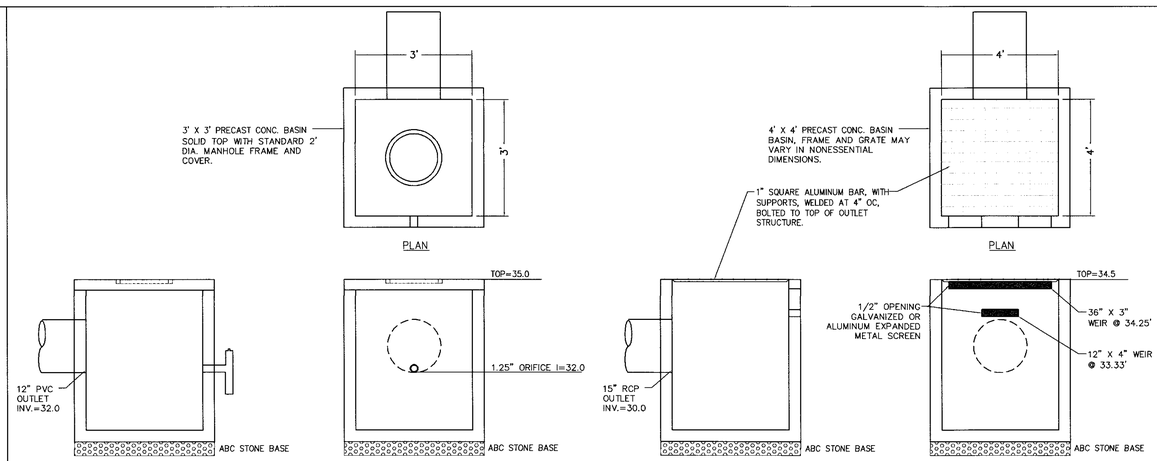
POND SLOPES ARE TO BE PLANTED WITH PERENNIAL TURF GRASS-HYBRID BERMUDA GRASS. POND SLOPE PLANTINGS SHALL BE EITHER SOD (BERMUDA GRASS) OR OR MATTED AND SEEDED WITH BERMUDA GRASS SEED.

NOTES:
1. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 SF OF SHELF AREA.
2. CATTAILS ARE NOT TO BE PLANTED IN OR AROUND POND.

SCALE: 1" = 30'
0 30 60 120

NOT TO SCALE

9 POND PLANTING



POND OUTLET STRUCTURES (STATE WQ VOLUME)

POND OUTLET STRUCTURE (COW PRE-POST)

NOT TO SCALE

10 SW POND OUTLET STRUCTURES

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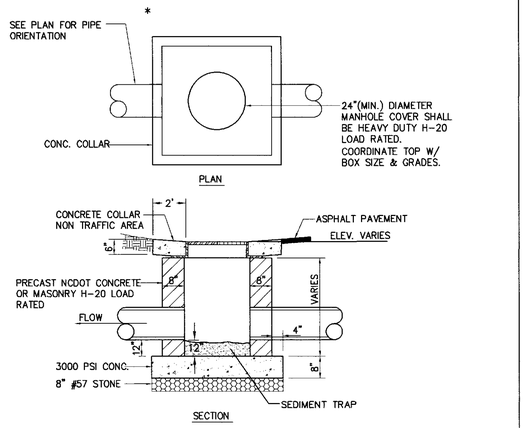
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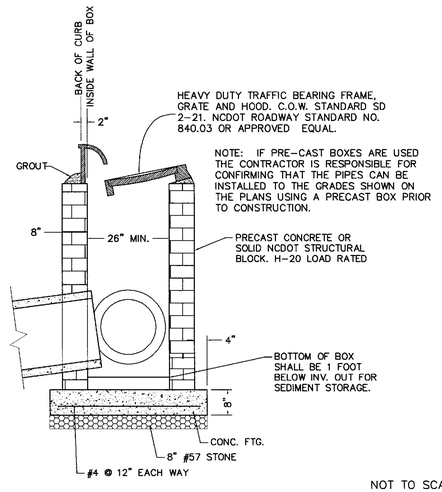
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DRWN. TOM
DATE 4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19611 JOHN S. TUNSTALL

C9



1 | SDMH DETAIL



2 | CATCH BASIN DETAIL (CI)

3

NOT TO SCALE

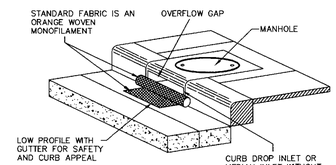
TRUE DAM®

Installation and Maintenance Guidelines

Installation: Place True Dam® on ground with aggregate pouch on street side near the inlet on which it will be installed. Open Velcro access pouch located on the street side edge of the unit. If using optional absorbents, place absorbent sock in pouch and push to back of pouch. Fill pouch with aggregate to a level that will keep the unit in place during a rain event and create a seal between the True Dam® and the surface of the street. Reseal Velcro access. Center the unit against a curb or median inlet opening so that the curb side of the unit creates a seal with the curb and inlet structure. There should be an equal length of the True Dam® overhanging on each side of the opening.

Maintenance: Remove all accumulated sediment and debris from surface and vicinity of unit after each storm event. If using optional oil absorbents; remove and replace absorbent pillow when near saturation.

TRUE DAM®



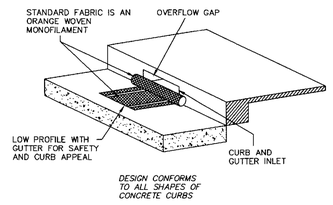
BEAVER DAM®

Installation and Maintenance Guidelines

Installation: The empty Beaver Dam® should be placed over the grate as the grate stands on end. If using optional oil absorbents; place absorbent pillow on pouch, on the bottom (below-grade side) of the unit. Attach absorbent pillow to tether loop. Tuck the enclosure flap inside to completely enclose the grate. Holding the lifting devices (do not rely on lifting devices to support the entire weight of the grate), place the grate into its frame (street side first), then lower back edge with dam into place. The Beaver Dam® should be partially blocking the curb hood when installed properly.

Maintenance: Remove all accumulated sediment and debris from surface and vicinity of unit after each storm event. Remove sediment that has accumulated within the containment area of the Beaver Dam® as needed. If using optional oil absorbents; remove and replace absorbent pillow when near saturation.

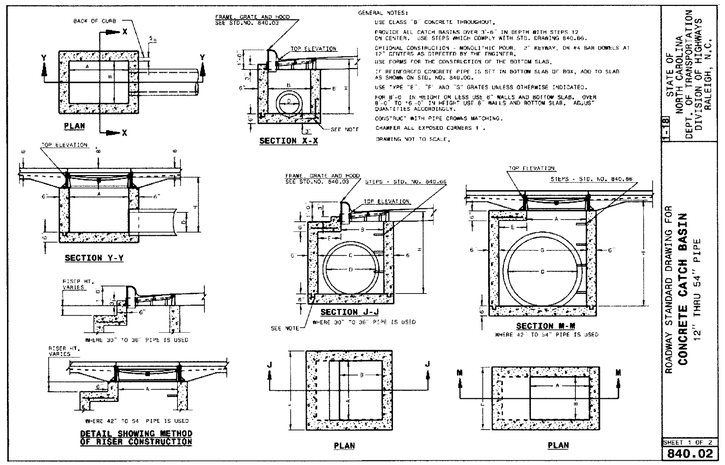
BEAVER DAM®

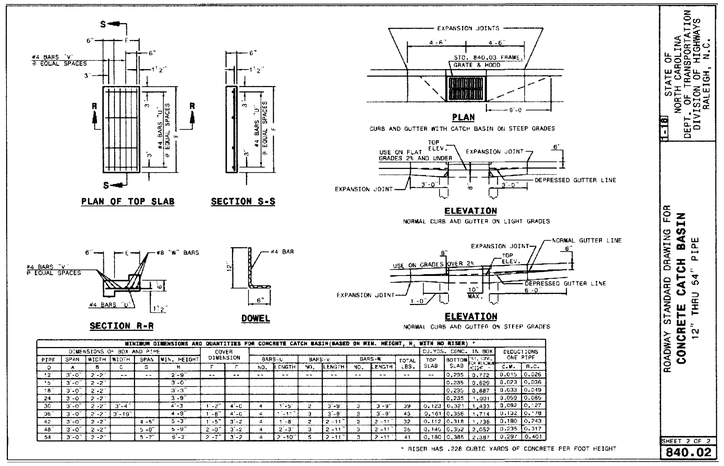


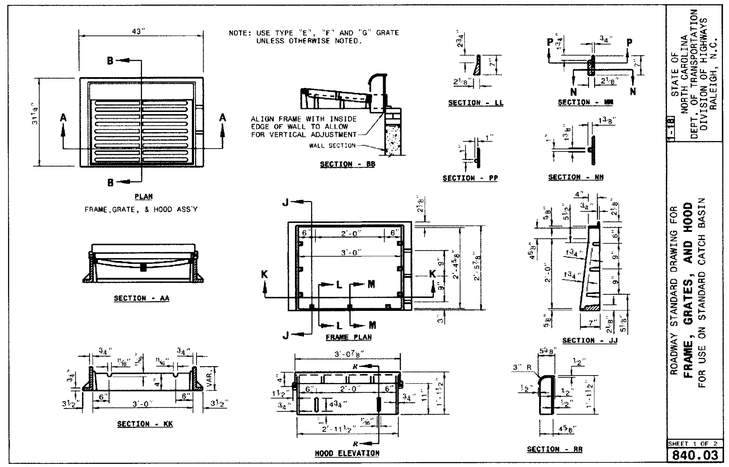
* USE AT EXISTING CURB INLETS IN PAVED AREAS.

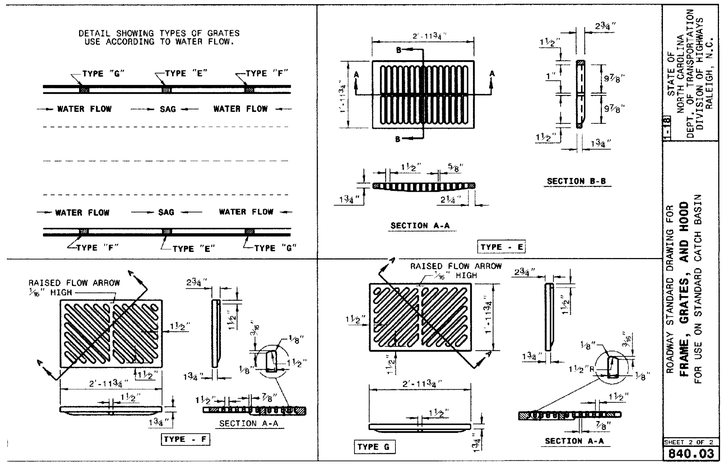
NOT TO SCALE

4 | EROSION CONTROL INLET PROTECTION









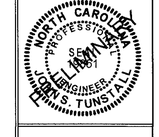
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DATE	4/5/23



C10

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	· 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 · 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones · 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	· 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones · 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below.

Temporary Stabilization	Permanent Stabilization
· Temporary grass seed covered with straw or other mulches and tackifiers · Hydroseeding · Rolled erosion control products with or without temporary grass seed · Appropriately applied straw or other mulch · Plastic sheeting	· Permanent grass seed covered with straw or other mulches and tackifiers · Geotextile fabrics such as permanent soil reinforcement matting · Hydroseeding · Shrubs or other permanent plantings covered with mulch · Uniform and evenly distributed ground cover sufficient to restrain erosion · Structural methods such as concrete, asphalt or retaining walls · Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

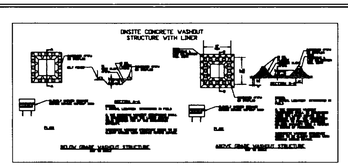
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA *Environmental Quality*



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

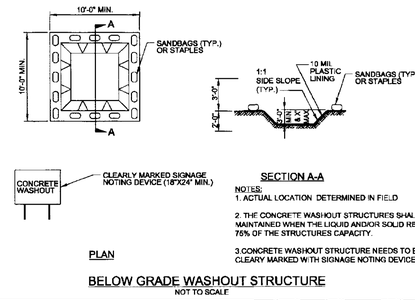
HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING | EFFECTIVE: 04/01/19

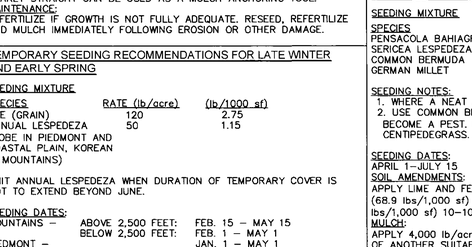
WITH LINER, NO GRAVEL APPROACH

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

EROSION CONTROL NOTES AND MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.

2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.

3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND WATTLES, BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.

4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.

5. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

6. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.

7. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.

8. LAND QUALITY REQUIRES:
ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.
WATER QUALITY REQUIRES:
ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN 3' HORIZONTAL TO 1' VERTICAL (3:1) AND ALL HIGH QUALITY WATER (HQW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

9. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECT SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

10. BASIN OUTLET STRUCTURES AND SKIMMERS SHALL WITHDRAW WATER FROM THE SURFACE.

11. CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS. DAMAGES SHOULD BE REPAIRED PROMPTLY. IF FILLED TO OVER 75% CAPACITY WITH RAIN WATER IT SHOULD BE VACUUMED OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. BEFORE HEAVY RAINS THE CONTAINERS LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER COVERED TO AVOID AN OVER FLOW DURING RAIN. WHEN SOLIDS HAVE HARDENED THEY SHOULD BE REMOVED AND RECYCLED.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, only the measured rain amount that is available (usually the cumulative rain measurement for those un-attended days) and the date and determine if a site inspection is required. Days on which no rainfall occurred shall be recorded as "0"s. The permittee may use another rain monitoring device approved by the Division.
(2) ESC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeters of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands unless on private (without accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence, and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land disturbing activity, construction of impervious surface, final grade, final stabilization), 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure that has been installed and does not significantly deviate from the locations, dimensions, and relative elevations shown on the approved E&SC Plan	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The ne-fe'tenance and repair requirements for all E&SC Measures have been performed	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site

and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the 303(d) list or has an approved sediment related control, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b) (c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)] • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING | EFFECTIVE: 04/01/19

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
RYE (GRAIN)	120	2.75

SEEDING DATES:
MOUNTAINS – AUG. 15 – DEC. 15
COASTAL PLAIN AND PIEDMONT – AUG. 15 – DEC. 15
SOIL AMENDMENTS:
FOLLOW SOIL TEST OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH 50 lb/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 lb/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
GERMAN MILLET	40	0.92

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 lb/acre.

SEEDING DATES:
MOUNTAINS – MAY 15 – AUG. 15
PIEDMONT – MAY 1 – AUG. 15
COASTAL PLAIN – APR. 15 – AUG. 15
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
RYE (GRAIN)	120	2.75
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50	1.15

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES:
MOUNTAINS – ABOVE 2,500 FEET: FEB. 15 – MAY 15
BELOW 2,500 FEET: FEB. 1 – MAY 1
PIEDMONT – JAN. 1 – MAY 1
COASTAL PLAIN – DEC. 1 – APRIL 15
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

PERMANENT SEEDING RECOMMENDATIONS FOR FALL AND EARLY SPRING

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
TALL FESCUE	80	1.84
PENSACOLA BAHIAGRASS	50	1.15
SERICEA LESPEDEZA	30	0.69
KOBE LESPEDEZA	10	0.23

SEEDING NOTES:
1. FROM SEPT. 1 THRU MAR. 1, USE UNSCARIFIED SERICEA SEED.
2. ON POORLY DRAINED SITES OMIT SERICEA AND INCREASE KOBE TO 30 lbs/acre.
3. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE TO 40 lbs/acre.

NURSE PLANTS: BETWEEN APR. 15 AND AUG. 15, ADD 10 lbs/acre GERMAN MILLET OR 15 lbs/acre SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15 ADD 25 lbs/acre RYE (GRAIN).

SEEDING DATES:	BEST	POSSIBLE
EARLY SPRING:	FEB 15–MAR. 20	FEB.15–APR. 30
FALL:	SEPT. 1–SEPT. 30	SEPT. 1–OCT. 31

SOIL AMENDMENTS:
APPLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000–5,000 lbs/acre (68.9–114.8 lbs/1,000 sf) GROUND AGRICULTURAL LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 1,000 lbs/acre (22.9 lbs/1,000 sf) 10–10–10 FERTILIZER.
MULCH:
APPLY 4,000 lb/acre (91.8 lbs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
IF GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE IN THE SECOND YEAR, ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 lbs/acre (11.5 lbs/1,000 sf) 10–10–10 FERTILIZER. MOW AS NEEDED WHEN SERICEA IS OMITTED FROM THE MIXTURE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

PERMANENT SEEDING RECOMMENDATIONS FOR LATE SPRING AND EARLY SUMMER

SEEDING MIXTURE

SPECIES	RATE (lb/acre)	(lb/1000 sf)
PENSACOLA BAHIAGRASS	50	1.15
SERICEA LESPEDEZA	30	0.69
COMMON BERMUDA	10	0.23
GERMAN MILLET	10	0.23

SEEDING NOTES:
1. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA.
2. USE COMMON BERMUDAGRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 5 lbs/acre CENTIPEDEGRASS.

SEEDING DATES:
APRIL 1–JULY 15
SOIL AMENDMENTS:
APPLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000 lbs/acre (68.9 lbs/1,000 sf) GROUND AGRICULTURAL LIMESTONE AND 500 lbs/acre (11.5 lbs/1,000 sf) 10–10–10 FERTILIZER.
MULCH:
APPLY 4,000 lb/acre (91.8 lbs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REFERTILIZE THE FOLLOWING APRIL WITH 50 lbs/acre (1.15 lbs/1,000 sf) NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOWED ONLY ONCE A YEAR. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND MOW AS OFTEN AS NEEDED.

NPDES-SPECIFIC PLAN SHEET NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

NOTES & DETAILS
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
334 HEALY DRIVE
WINSTON-SALEM, NC 27103
336-718-5555
MARY.PHILLIPS@NOVANTHEALTH.ORG

N/F
WILMINGTON HOUSING AUTHORITY
PARID: R04909-001-007-000
MB:16 PG:27
ZONING: MF-M-MULTI FAMILY MED DEN

IO=28.18

18" RCP

I=29.91

RCP18

CI
T=31.63
I=27.88

CI
T=31.88
I=30.03

SEABOARD COAST LINE RAILROAD (130'±) R/W

N/F
WILMINGTON CITY OF
PARID: R04909-002-038-000
DB: 5989 PG:1638
ZONING: R-10 RESIDENTIAL DISTRICT

R=1930.00'
CHORD BEARING = N70° 44' 41"W
CHORD DISTANCE = 514.25'
TANGENT = 259.44'

POND

FOREBAY

N01°08'17"E 382.27'

NORTH 30TH STREET 60' R/W (PUBLIC)

491 SF

647 SF

240 SF

111 SF

EV

FAMILY MEDICAL CLINIC

FFE=37.50

N/F
NOVANT HEALTH INC
PARID: R04913-001-003-000
DB: 6571 PG:1883
ZONING: CB (COMMUNITY BUSINESS)

ANGLE IRON FOUND

S02°20'23"E 186.22'

N/F
EBENEZER BAPTIST CHURCH OF
PARID: R04913-001-001-000
DB: 5348 PG:66
ZONING: R-10 RESIDENTIAL DISTRICT

N/F
JOE CONYERS
PARID: R04913-001-004-000
DB: 5984 PG:1492
ZONING: CB (COMMUNITY BUSINESS)

N/F
JOE CONYERS JR
PARID: R04913-001-005-000
DB: 5984 PG:1492
ZONING: CB (COMMUNITY BUSINESS)

STMH
RIM: 37.32'
IE: 30.96'(N)
IE: 29.27'(SE)
IE: 29.27'(E)
IE: PLUGGED(W)

CB
RIM: 0'
IE: 32.35'

STMH
RIM: 36.26'
IE: 30.09'(S)
IE: 30.21'(N)
IE: 28.74'(W)
IE: 28.74'(E)

CB
RIM: 35.18'
IE: 32.77'

CB
RIM: 34.05'
IE: 31.24'

501.38'
S82°57'38"W

GUYWIRE

CONCRETE

PRINCESS PLACE DRIVE 60' R/W (PUBLIC)

15" RCP

24" RCP

18" RCP

SSMH
RIM: 34.97'
(SEALED UNABLE TO OPEN)

STMH
RIM: 35.00'
IE: 31.34'(SE)
IE: 29.27'(N)
IE: 27.45'(E)
IE: 27.45'(W)

SSMH
RIM: 34.94'
IE: 26.51'(E)
IE: 26.54'(NW)
CB: 34.28'
IE: 31.88'

N/F
SEAMIST SUITES LLC
PARID: R04913-018-001-000
DB: 6263 PG:885
ZONING: CB-COMMUNITY BUSINESS

CB
RIM: 35.29'
IE: 29.92'(N)
IE: 30.32'(S)

SSMH
RIM: 35.99
IE: 27.44'(E)
IE: 27.44'(W)

N/F
PAULINE PLACE OWNERS ASSOCIATION, INC
PARID: R04913-018-043-001
DB: 5741 PG:1905
ZONING: CB-COMMUNITY BUSINESS

N/F
ARTHUR CATHERINE R ETAL
PARID: R04913-018-042-000
DB: 6543 PG:133
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-041-000
DB: 5260 PG:284
ZONING: CB-COMMUNITY BUSINESS

N/F
CONYERS JOE
PARID: R04913-018-040-000
DB: 5229 PG:2346
ZONING: CB-COMMUNITY BUSINESS

SSMH
RIM: 37.15'
IE: 28.28'(E)
IE: 28.28'(W)

CB
RIM: 36.40'
IE: 31.34'

STMH
RIM: 36.95'
IE: 33.40'(SW)
IE: 28.85'(NW)
IE: 27.99'(E)

N/F
ATLANTIC FACILITIES
PARID: R04913-020-0
DB: 6202 PG:17
ZONING: R-10 RESIDENTIA

N/F
BRADY GEORGE P
PARID: R04913-020-020
DB: 5193 PG:2
ZONING: R-10 RESIDENTIAL

N/F
HYER PHILLIP EDW
PARID: R04913-020-0
DB: 6352 PG:1
ZONING: R-10 RESIDENTIAL

N/F
ALI MOH
PARID: R04913-
DB: 5961
ZONING: CB-COM

N/F
JOHNSON HEZE
PARID: R04913-017-
DB: 1997 PG: 6
ZONING: CB-COMMUNIT

SCALE: 1" = 30'
0 30 60 120

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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VEHICLE TRACKING PLAN
NOVANT HEALTH FAMILY MEDICAL CLINIC-NORTH WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC 28405

OWNER/DEVELOPER
MARY ANNA PHILLIPS, MANAGER OF DESIGN & CONSTRUCTION OPERATIONS
NOVANT HEALTH, INC.
304 HERITAGE DRIVE
WINSTON-SALEM, NC 27103
843-602-1811
MARY.PHILLIPS@NOVANTHEALTH.ORG

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
2602 IRON GATE DR., SUITE 102
WILMINGTON, NC 28412
PHONE (910) 343-9053
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

Licence #C-3641

23010

DES.	JST
CKD.	JPN
DRWN.	TOM
DATE	4/5/23

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17001 JOHN S. TUNSTALL

C12

SHEET INDEX

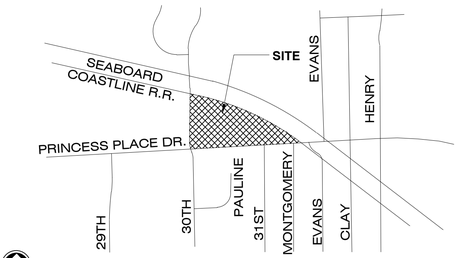
SHEET L1.0 OVERALL PLANTING PLAN & CALCULATIONS
SHEET L1.1 DETAILS



PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	MIN. REQ. SIZE		QTY
	Betula nigra / River Birch `Duraheat`	B & B			2" CAL		9
	Cercis c. `Forest Pansy` TM / Forest Pansy Redbud	B & B			8` HT		16
	Ilex x a. `Eagleston` / Eagleston Holly TREE FORM	B&B			8` HT		10
	Ilex x a. `East Palatka` / Single Stem East Palatka Holly	25 GAL		8` HT			7
	Quercus virginiana / Southern Live Oak	B & B			2" CAL		7
STREET TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	MIN. REQ. SIZE		QTY
	Quercus virginiana / Southern Live Oak	B & B			2" CAL		13
SHRUBS	BOTANICAL / COMMON NAME	CONT	SIZE	-	MIN. REQ. SIZE		QTY
	Ilex vomitoria `Nana` / Dwarf Yaupon	3 gal			12" HT.		58
	Muhlenbergia capillaris / Pink Muhly	3 gal			12" HT.		21
	Pittosporum tobira / Pittosporum	3 gal			12" HT.		58
	Pittosporum tobira `Wheelei` s Dwarf` / Dwarf Pittosporum	3 gal			12" HT.		74
	Sabal minor / Dwarf Palmetto	3 gal					10
	Viburnum odoratissimum / Sweet Viburnum				3' HT.		38
GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SIZE				
	Liriope gigantea / Giant Liriope	1 GAL	12-18" HT			18" o.c.	589
	Liriope muscari / Lily Turf	1 GAL	6-12" HT			18" o.c.	237
	Trachelospermum a. `Asiatic` / Asiatic Jasmine	1 qt	6-12" HT			12" o.c.	342
SOD/SEED	BOTANICAL / COMMON NAME	CONT	SIZE				
	Eremochloa ophiuroides / Centipede Sod	sod					

VICINITY MAP



NOT TO SCALE

SITE DATA

ADDRESS:	3009 PRINCESS PLACE DR.
PARCEL ID:	R04913-001-003-000
PARCEL OWNER:	NOVANT HEALTH, INC.
CAMA LAND CLASSIFICATION:	URBAN
ZONING:	CB - COMMUNITY BUISNESS
PROPOSED PARCEL USE:	MEDICAL OFFICE
PARCEL AREA:	+/- 3.4 AC (148,104 SF)
DISTURBED AREA:	2 AC

BUILDING REQUIREMENTS	REQUIRED	PROPOSED
FRONT SETBACK	10'	52'
INTERIOR SIDE SETBACK	10'	N/A
SIDE STREET SETBACK	10'	11'
REAR SETBACK	25'	232'
MAX. BUILDING HEIGHT	45'	24'-8"

CITY OF WILMINGTON LANDSCAPE REQUIREMENTS

	REQUIRED	PROVIDED
PARKING LOT CANOPY COVERAGE (19,732 SF X 15%)	2,960 SF , 5 TREES	5 LARGE TREES
STREETYARD PLANTING		
30TH STREET	307 LF	
CANOPY TREES REQUIRED	4 (1/100 LF)	1 CANOPY TREES 4 EXISTING TREES
UNDERSTORY TREES REQUIRED	10 (3/100 LF)	10 UNDERSTORY TREES
SHRUBS REQUIRED	19 (6/100 LF)	19 SHRUBS
PRINCESS PLACE DRIVE	500 LF	
CANOPY TREES REQUIRED	5 (1/100 LF)	5 CANOPY TREES
UNDERSTORY TREES REQUIRED	15 (3/100 LF)	15 UNDERSTORY TREES
SHRUBS REQUIRED	30 (6/100 LF)	30 SHRUBS
FOUNDATION PLANTING 12% FACADE AREA		
	REQUIRED	PROVIDED
1-STORY BUILDING		
SOUTH	382 SF (129 LF x 24'-8" HT x .12)	988 SF
WEST	190 SF (64 LF x 24'-8" HT x .12)	658 SF
NORTH	311 SF (105 LF x 24'-8" HT x .12)	665 SF

MITIGATION REQUIREMENTS

*NOTE: NO SIGNIFICANT TREES ARE TO BE REMOVED WITHIN PROJECT BOUNDARY, NO MITIGATION WILL BE REQUIRED

OVERALL TREE REQUIREMENT

TREE REQUIREMENTS PER DISTURBED ACRE
15 TREES PER DISTURBED ACRE MUST BE RETAINED OR PLANTED ON SITE.

REQUIRED:	2 ACRES DISTURBED x 15 TREES = 30 TREES REQUIRED
PROVIDED:	49 TREES PLANTED
TOTAL:	**49 PROVIDED TREES**

GENERAL NOTES

STREETYARD NOTES:
- ALL SHRUBS TO BE A MINIMUM OF 12" HEIGHT AT TIME OF PLANTING

SIGHT TRIANGLE NOTES:
- ALL PROPOSED VEGETATION WITHIN SIGHT DISTANCES TRIANGLES SHALL NOT INTERFERE WITH CLEAR SIGHT LINES FROM 30" - 10'.

TREE PROTECTION NOTES:
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING

SYMBOL LEGEND

PROPERTY LINE
LIMITS OF DISTURBANCE
SETBACK
TREE PROTECTION
STREETYARD
EXISTING TREES TO REMAIN
SITE TRIANGLE
TREES COUNTED SHADING REQUIREMENTS

NORTH

0 30 60 90 feet
SCALE: 1" = 30'

MIHALY
LAND DESIGN
PLANNING + LANDSCAPE ARCHITECTURE
330 MILITARY CUTOFF RD., Suite A3
Wilmington, NC 28405 910.392.4355

Revisions

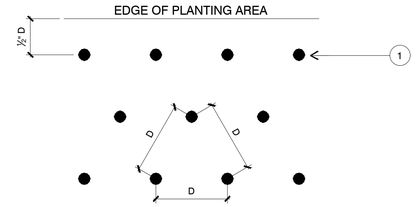
CLIENT
NOVANT HEALTH, INC
334 HEALY DRIVE
WINSTON-SALEM, NC
843-602-1811

PROJECT
NOVANT HEALTH FAMILY MEDICAL CLINIC - N. WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC
LANDSCAPE PLAN

PERMIT SET

Date:	2023-04-12
Phase:	
Job Number:	680-30
Designed by:	MLD
Drawn by:	RJB
Checked by:	JWM
Sheet Title:	OVERALL SHEET

Sheet Number:
L1.0
of 2 sheets

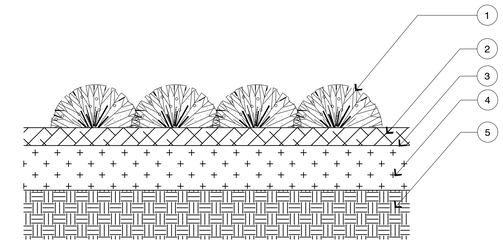


LEGEND

1. GROUNDCOVER OR SHRUB PLANTING LOCATION

NOTE:
- D - AS NOTED ON PLANTING SCHEDULE

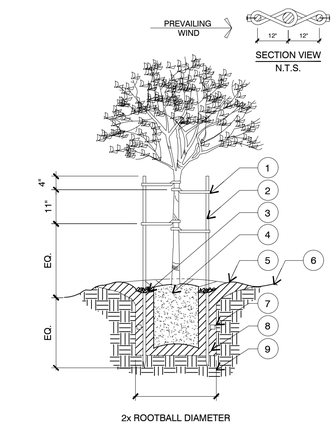
4 PLANT SPACING



LEGEND

1. GROUND COVER PLANT- REFER TO PLANTING PLAN FOR SPACING INFORMATION
2. MULCH - REFER TO PLANTING SPECIFICATIONS FOR TYPE AND DEPTH
3. FINISH GRADE
4. TOPSOIL AND NATIVE BACKFILL - REFER TO PLANTING SPECIFICATIONS FOR TYPE AND DEPTH
5. COMPACTED SUBGRADE

1 GROUNDCOVER

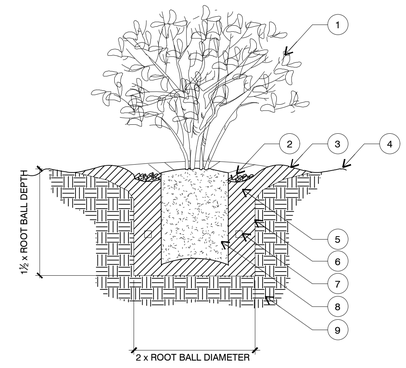


LEGEND

1. 24" CORDED BLACK RUBBER TREE TIE. LOOP AT TRUNK AND NAIL TO STAKE
2. 2½" DIA. x 12' LONG TREATED LODGEPOLE PINE STAKE
3. 3" LAYER OF MULCH
4. ROOT BALL
5. 3" WATER BASIN
6.
7. ET
8. E BACKFILL MIXTURE
9. DE

N
- SCARIFY ROOT BALLS OF PLANTS WITH CIRCLING ROOTS.
- HEAVILY ROOT BOUND SHRUBS WILL NOT BE ACCEPTED
- WHEN OVERHANGING A CIRCULATION ROUTE, MAINTAIN 80" ABOVE THE WALKING SURFACE.

5 TREE STAKING

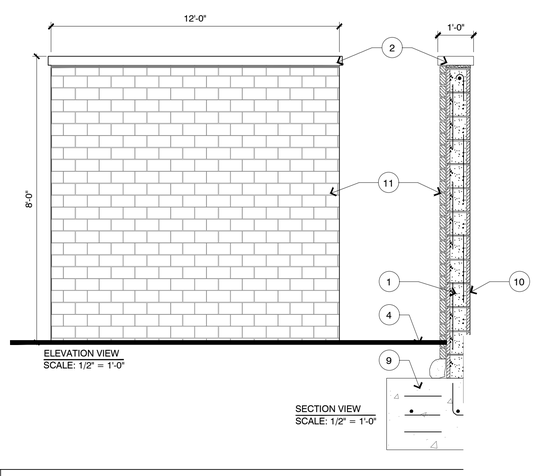


LEGEND

1. SHRUB
2. 3" LAYER OF MULCH
3. 3" WATER BASIN
4. FINISH GRADE
5. TOPSOIL & NATIVE BACKFILL MIXTURE
6. SCARIFY EDGE OF PIT
7. FERTILIZER TABLETS - REFER TO SCHEDULE FOR QUANTITY
8. ROOT BALL
9. NATIVE SUBGRADE

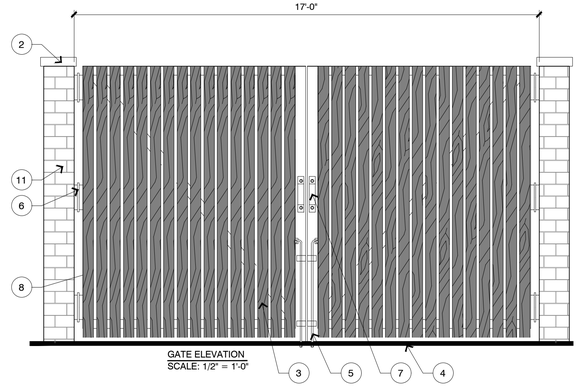
NOTES:
- SCARIFY ROOT BALLS OF PLANTS WITH CIRCLING ROOTS.
- HEAVILY ROOT BOUND SHRUBS WILL NOT BE ACCEPTED

2 SHRUB PLANTING



LEGEND

1. 8" CMU BLOCK W/ STEEL REINFORCEMENT
2. PRECAST CONCRETE CAP
   COLOR: NATURAL GREY
3. 1x4 VERTICAL WOOD SLATS STAINED
   STAIN: TO BE SELECTED
4. FINISH GRADE
5. POWDER COATED STEEL DROP BAR
   COLOR: BLACK
6. POWDER COATED STEEL HINGES
   COLOR: BLACK
7. POWDER COATED STEEL HANDLE
   COLOR: BLACK
8. 2x3 POWDER COATED ALUMINUM FRAME
   COLOR: BLACK
9. CONCRETE FOOTER W/ #4 REBAR REINFORCEMENT
10. PARGE FINISH ON INTERIOR WALL ONLY
11. BRICK VENEER
    BRICK: TO MATCH ARCHITECTURE



NOTES:
- STRUCTURAL ENGINEER TO PROVIDE SUPPORTIVE DETAILS SHOWING CONNECTIONS, FOOTING, AND REINFORCEMENT

3 DUMPSTER ENCLOSURE

MIHALY
LAND DESIGN
PLANNING + LANDSCAPE ARCHITECTURE
330 MILITARY CUTOFF RD., Suite A3
Wilmington, NC 28405 910.392.4355

Revisions

CLIENT
NOVANT HEALTH, INC
334 HEALY DRIVE
WINSTON-SALEM, NC
843-602-1811

PROJECT
NOVANT HEALTH FAMILY MEDICAL CLINIC - N. WILMINGTON
3009 PRINCESS PLACE DR.
WILMINGTON, NC
LANDSCAPE PLAN

PERMIT SET

Date:	2023-04-12
Phase:	
Job Number:	680-30
Designed by:	MLD
Drawn by:	RJB
Checked by:	JWM

Sheet Title:
DETAIL SHEET

Sheet Number:
L1.1
of 2 sheets

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. TYPICAL DIMENSIONS ARE TO GRIDLINES, EXTERIOR FACE OF WALL, AND TO OPENINGS UNLESS NOTED OTHERWISE.

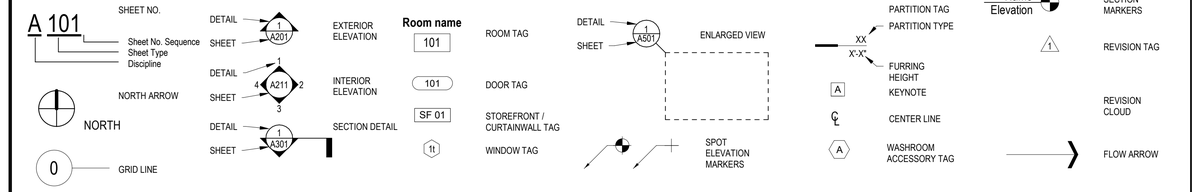
DOOR AND HARDWARE NOTES

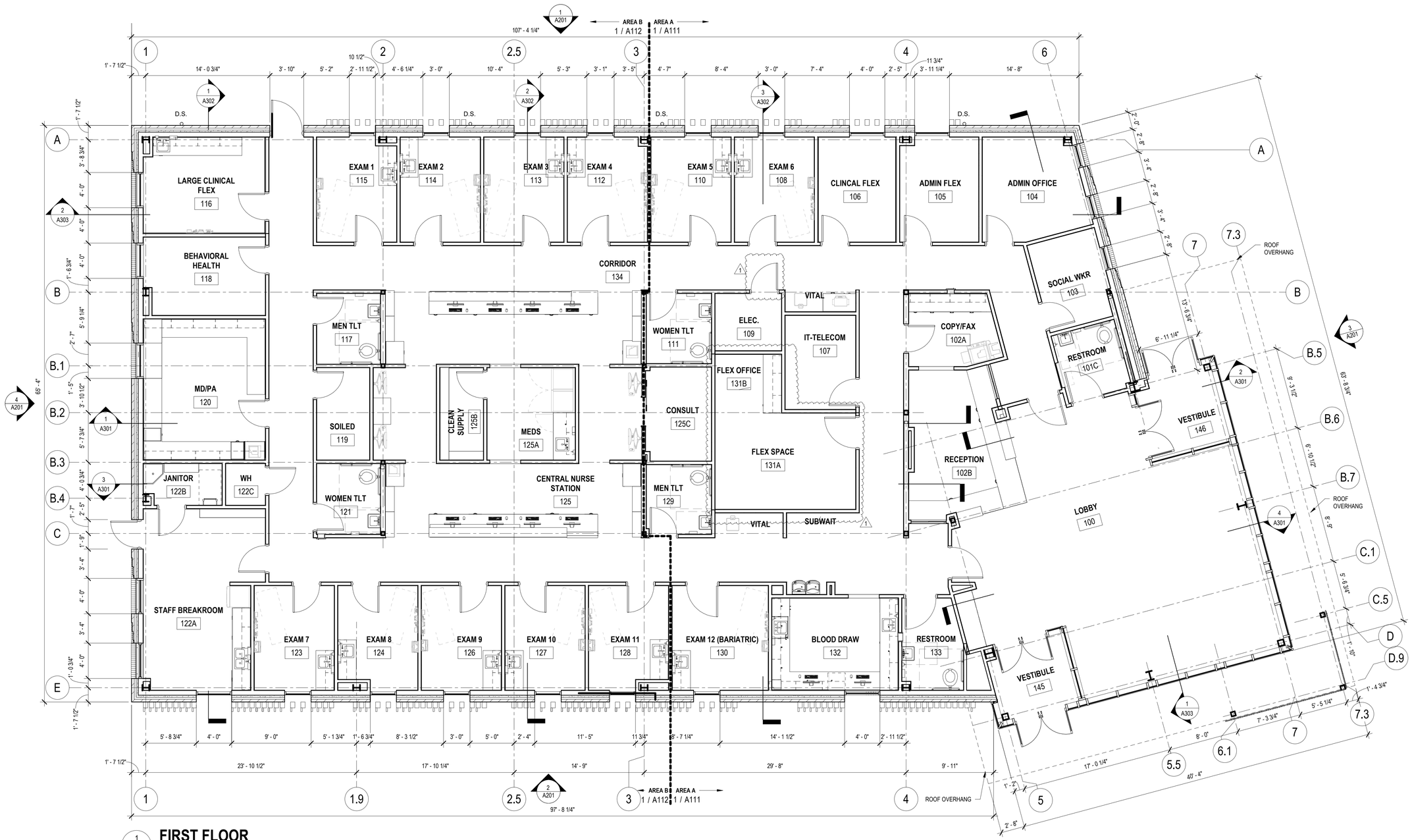
1. REFER TO SHEET **A601** FOR DOOR SCHEDULE
2. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT, U.N.O.
3. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM "ADA" REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PLACING ORDER.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
5. ALL DOORS TO MATCH FINISHES AS INDICATED ON A721.

CONSTRUCTION KEYNOTES

GENERAL SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS





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

neighboring concepts
1635 West Trade Street, Suite 1A
Charlotte, North Carolina 28216
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www.neighboringconcepts.com

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NEIGHBORING CONCEPTS PLLC — CERT. NO. C-2098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

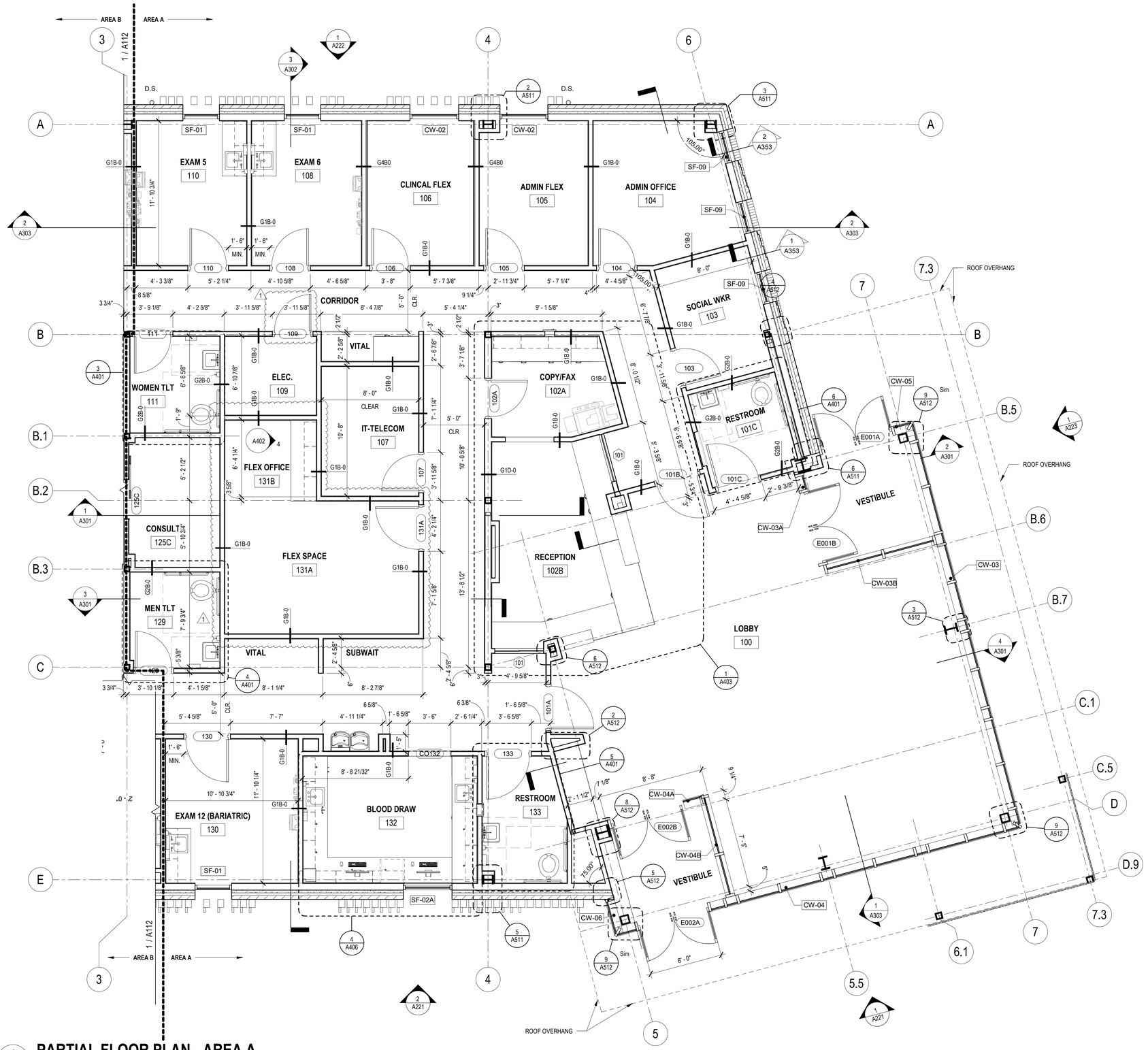
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

FLOOR PLAN

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A101



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. TYPICAL DIMENSIONS ARE TO GRIDLINES, OPENINGS AND FACE OF STUD UNLESS NOTED OTHERWISE.

DOOR AND HARDWARE NOTES

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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.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CUSTOM WOOD DOORS TO INCLUDE: DOOR, ALL HARDWARE AND SUPPORT.
5. ALL DOORS TO MATCH FINISHES AS INDICATED ON A721.

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 / 101 — ROOM TAG
- 101 — DOOR TAG
- SF 01 — STOREFRONT / CURTAINWALL TAG
- 1f — 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 1 / SHEET A211 (4, 2, 3) — 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

neighboring concepts

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Charlotte, North Carolina 28216
T:704.374.0916 F:704.342.3808

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

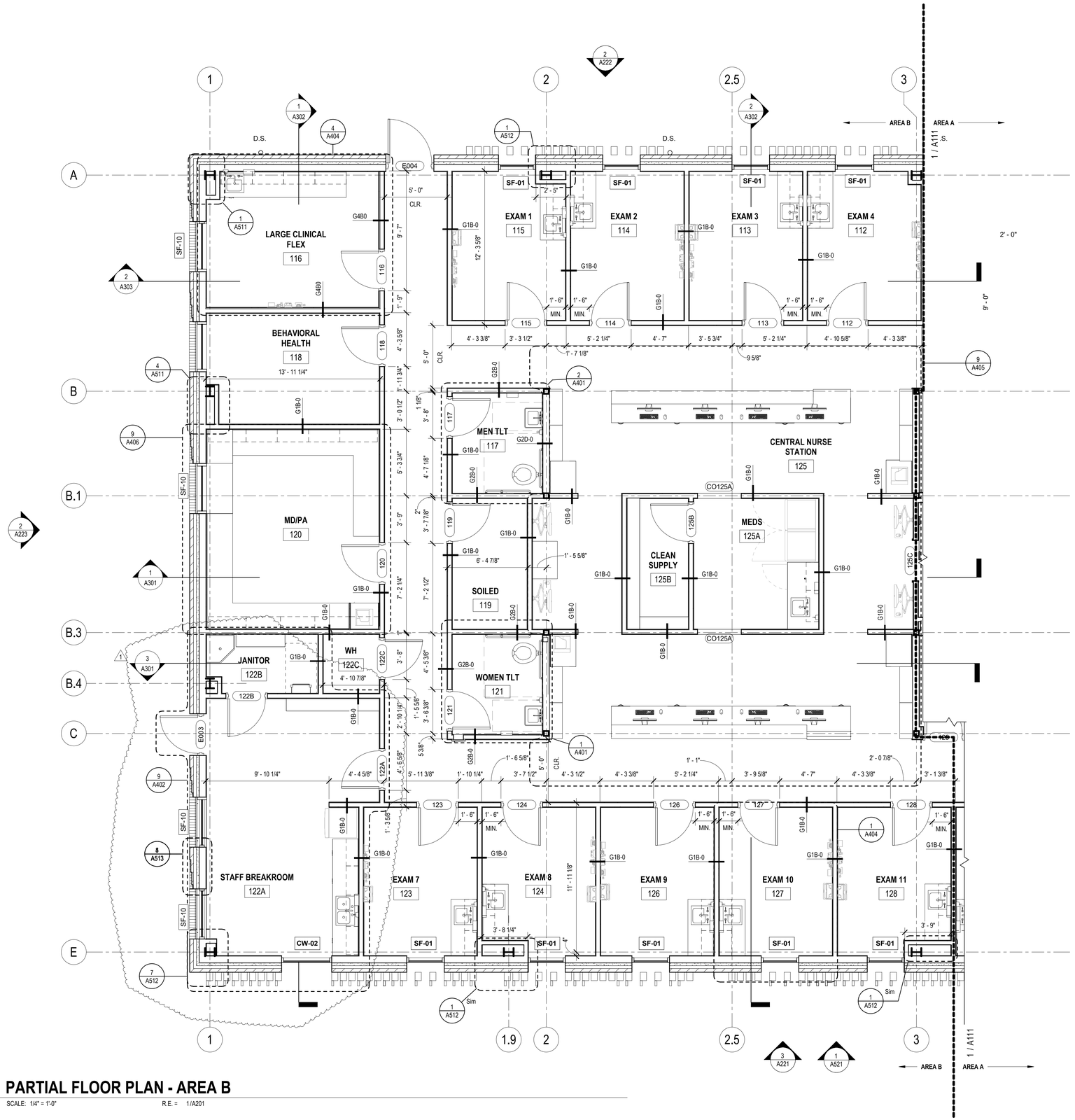
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

ENLARGED FLOOR PLAN - AREA A

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A111



PARTIAL FLOOR PLAN - AREA B

1 / A112

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

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GENERAL SYMBOL LEGEND

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- DETAIL 1 / SHEET A211 (1, 2, 3, 4) — INTERIOR ELEVATION
- DETAIL 1 / SHEET A301 — SECTION DETAIL
- DETAIL 1 / SHEET A501 — ENLARGED VIEW
- SPOT ELEVATION MARKERS
- Name / Elevation — SECTION MARKERS
- 1 — REVISION TAG
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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

ENLARGED FLOOR PLAN - AREA B

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A112

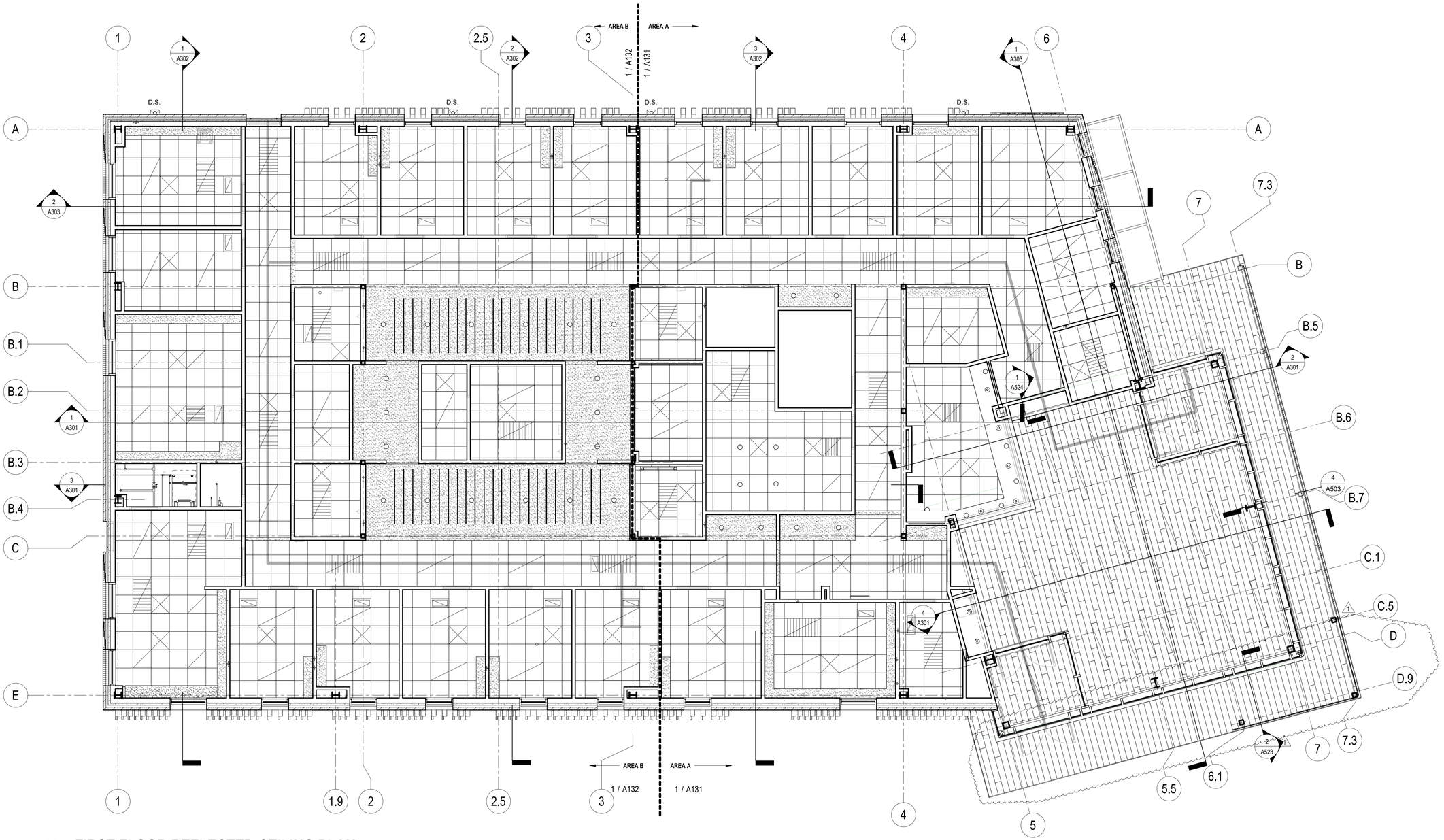
REFLECTED CEILING NOTES

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 ARCHITECTS 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 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
- ROLLER WINDOW SUNSHADE
- SPRINKLER HEAD
- DIRECTIONAL INDICATORS
- EXIT SIGN
- INDICATOR LOCATION
- SUSPENDED GYPSUM BOARD CEILING
- FELT BAFFLES (SEE FINISH SCHEDULE)
- WOOD CEILING (SEE FINISH SCHEDULE)
- 2 X 2 AIR SUPPLY GRILL
- 1' X 2' RETURN GRILL
- SUSPENDED ACOUSTICAL CEILING SYSTEM
- STARTING POINT LAYOUT INSTALLATION (WHERE INDICATED ON PLAN)



1 A121 **FIRST FLOOR REFLECTED CEILING PLAN**

SCALE: 3/16" = 1'-0" R.E. = 1/A201

neighboring concepts
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NEIGHBORING CONCEPTS PLLC — ARCHITECTURE — CERT. NO. 51098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

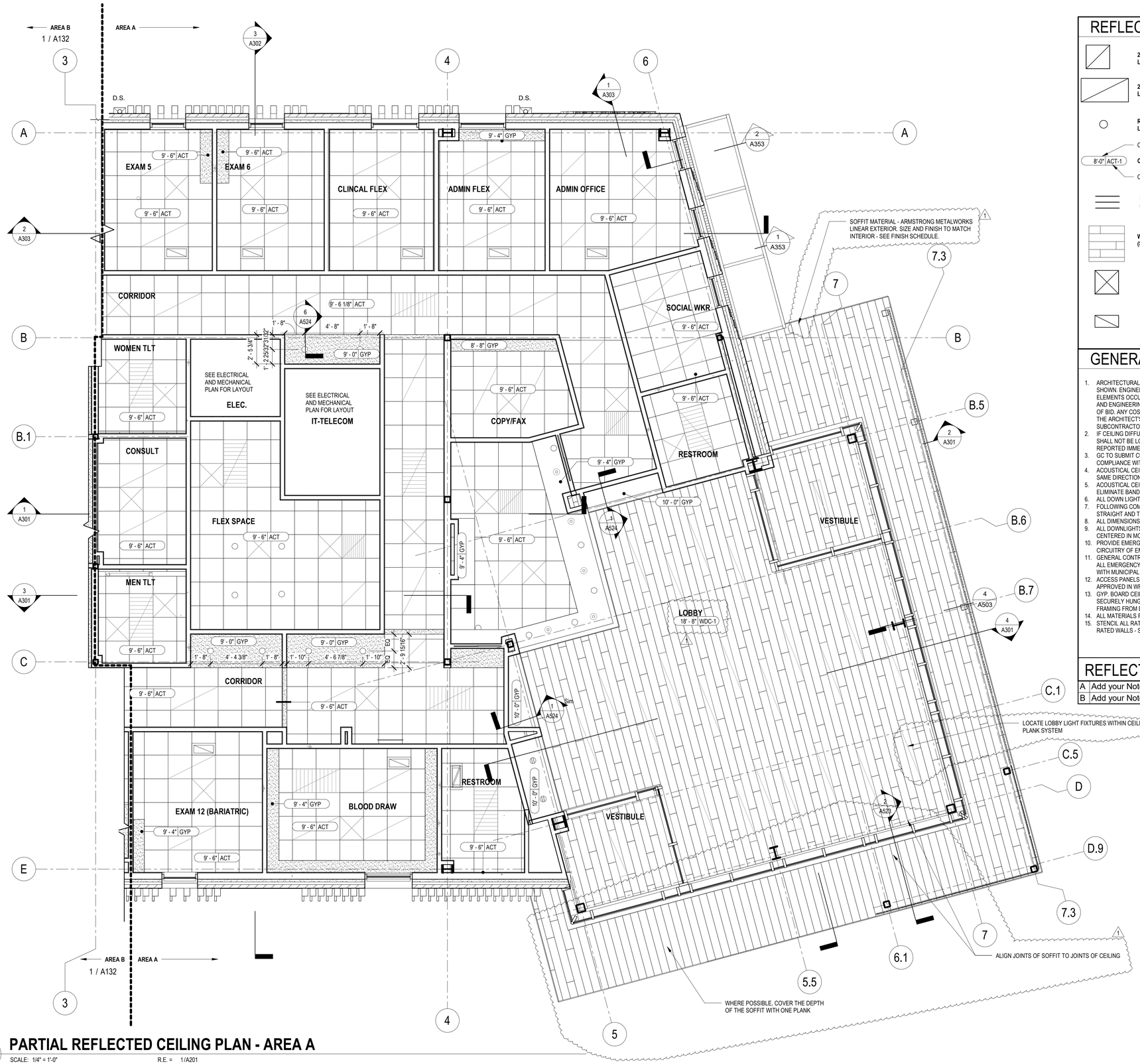
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

REFLECTED CEILING PLAN

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A121



1 / A131 **PARTIAL REFLECTED CEILING PLAN - AREA A**

SCALE: 1/4" = 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)
- 2 X 2 AIR SUPPLY GRILL
- 1' X 2' RETURN GRILL
- ROLLER WINDOW SUNSHADE
- SPRINKLER HEAD
- DIRECTIONAL INDICATORS
- EXIT SIGN
- INDICATOR LOCATION
- SUSPENDED GYPSUM BOARD CEILING
- SUSPENDED ACOUSTICAL CEILING SYSTEM
- DIM. / STARTING POINT LAYOUT INSTALLATION (WHERE INDICATED ON PLAN)

GENERAL REFLECTED CEILING NOTES

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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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NEIGHBORING CONCEPTS PLLC — CERT. NO. C-2965 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

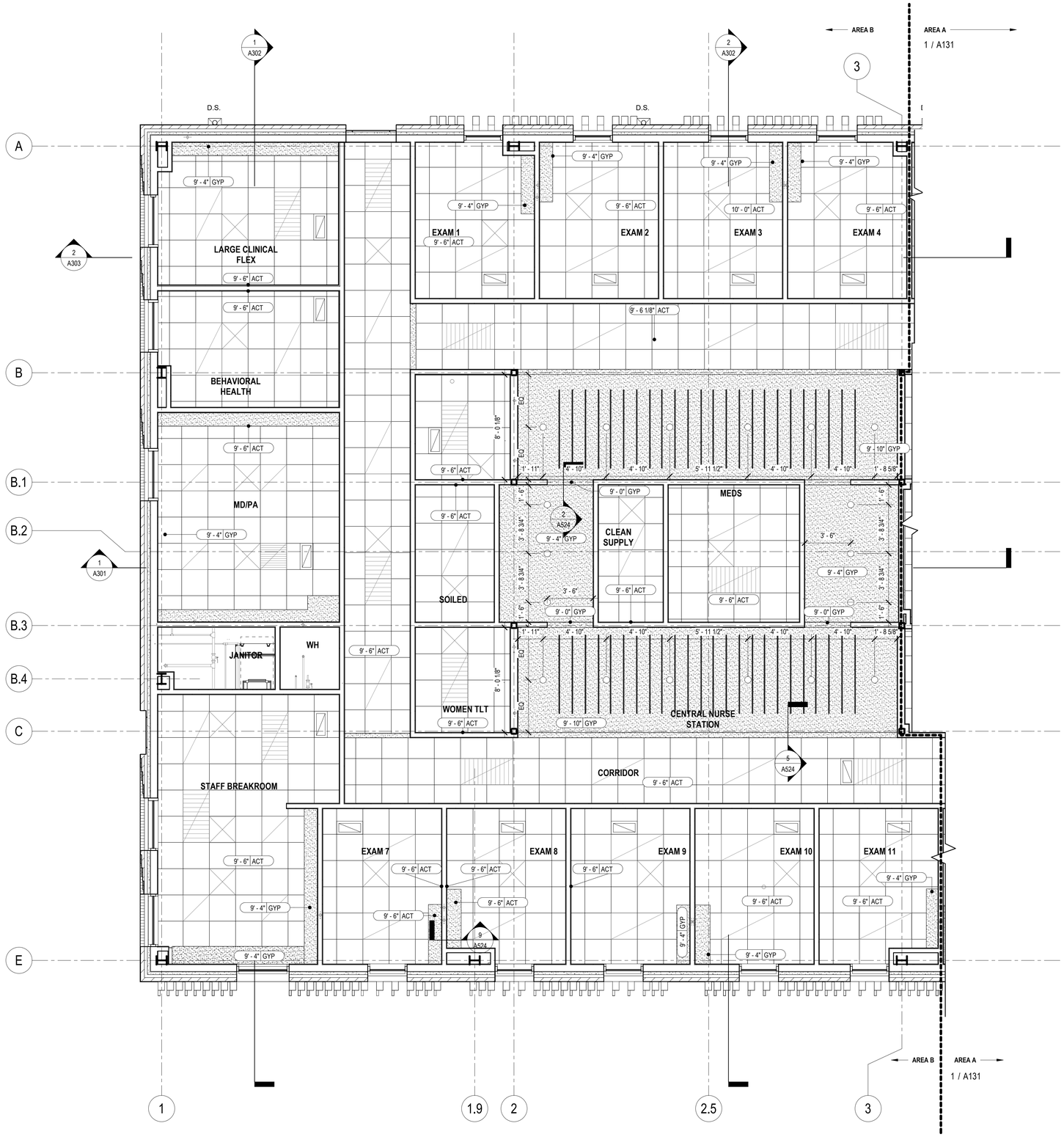
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

ENLARGED REFLECTED CEILING PLAN - AREA A

ISSUE DATE 05/26/2023
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A131

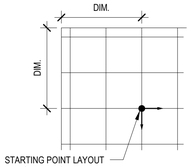


1 A132 **PARTIAL REFLECTED CEILING PLAN - AREA B**

SCALE: 1/4" = 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)
- 2 X 2 AIR SUPPLY GRILL
- 1' X 2' RETURN GRILL
- ROLLER WINDOW SUNSHADE
- SPRINKLER HEAD
- DIRECTIONAL INDICATORS
- EXIT SIGN
- INDICATOR LOCATION
- SUSPENDED GYPSUM BOARD CEILING
- SUSPENDED ACOUSTICAL CEILING SYSTEM
- STARTING POINT LAYOUT INSTALLATION (WHERE INDICATED ON PLAN)



GENERAL REFLECTED CEILING NOTES

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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
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neighboring concepts
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NEIGHBORING CONCEPTS, PLLC — CERT. NO. 51098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:53-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

ENLARGED REFLECTED CEILING PLAN - AREA B

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A132

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) 5" / HR RAINFALL
2) 4" ROUND DOWNSPOUT = 3,680 SF ROOF AREA

ROOF AREA 1 = 2097 SF
1 DOWNSPOUTS PROVIDED: 2097 SF < 3680 SF **OK**

ROOF AREA 2 = 8010 SF
4 DOWNSPOUTS PROVIDED: 8010 SF < 14720 SF **OK**

ROOF AREA 2 CALCULATED VALUE

ROOF AREA 1 SHEDS TO ROOF AREA 2. FOR DRAINAGE CALCULATIONS, SF OF ROOF AREA 2 IS INCLUSIVE OF BOTH AREAS 1 AND 2.

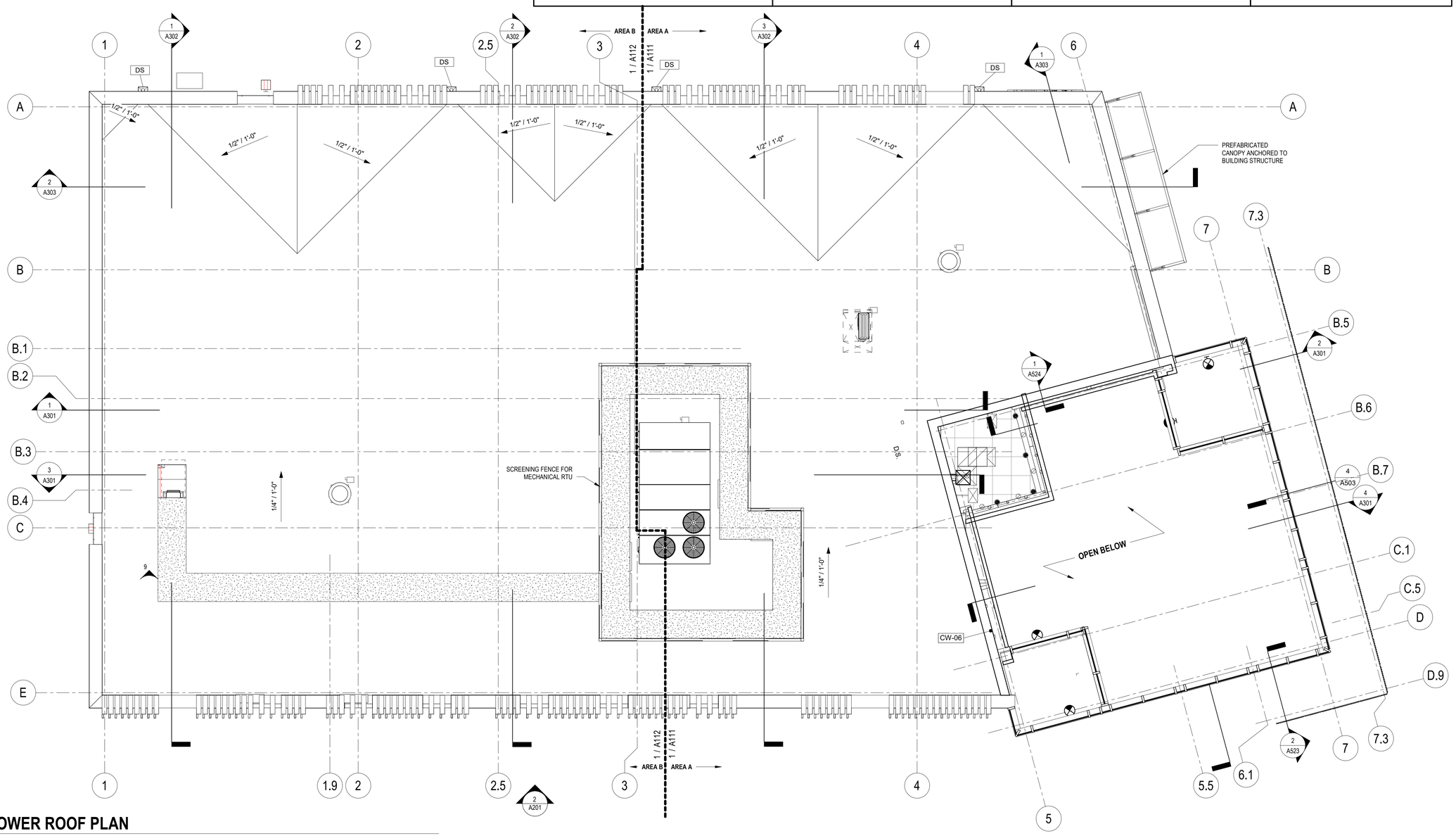
ACTUAL ROOF AREA = 5913 SF
ROOF AREA 2 + ROOF AREA 1 - DRAINAGE AREA OF ROOF AREA 2
5913 SF + 2097 SF = 8010 SF

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 ARCHITECTS 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 4" ROUND 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
- ROOF WALKING PAD



1 A151 **LOWER ROOF PLAN**
SCALE: 3/16" = 1'-0" R.E. = 1 / A301

neighboring concepts
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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:54-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

LOWER ROOF PLAN

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A151

06/14/2023

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

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1 DOWNSPOUTS PROVIDED: 2097 SF < 3680 SF **OK**

ROOF AREA 2 = 8010 SF
4 DOWNSPOUTS PROVIDED: 8010 SF < 14720 SF **OK**

ROOF AREA 2 CALCULATED VALUE

ROOF AREA 1 SHEDS TO ROOF AREA 2. FOR DRAINAGE CALCULATIONS, SF OF ROOF AREA 2 IS INCLUSIVE OF BOTH AREAS 1 AND 2.

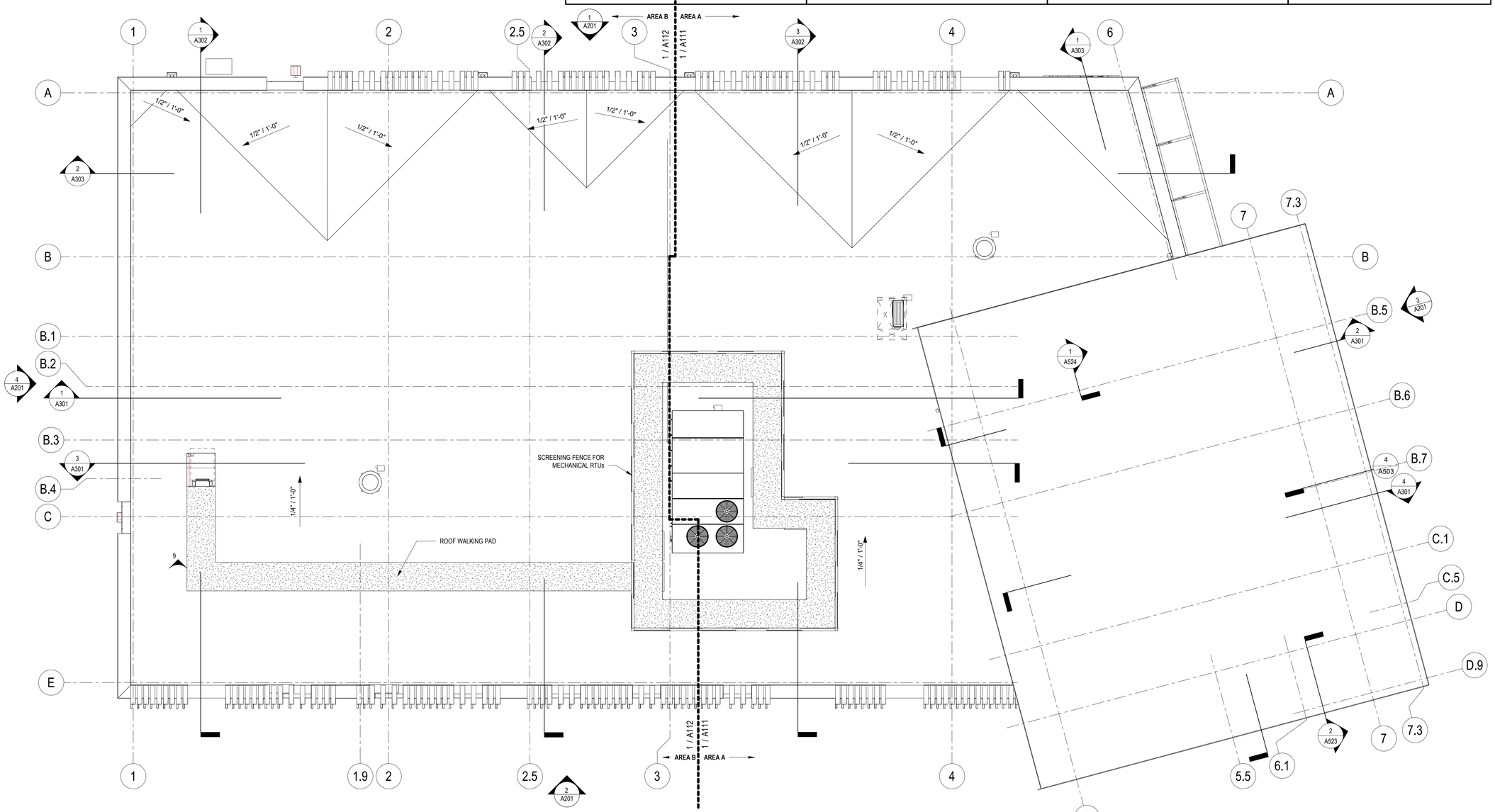
ACTUAL ROOF AREA = 5913 SF
ROOF AREA 2 + ROOF AREA 1 - DRAINAGE AREA OF ROOF AREA 2
5913 SF + 2097 SF = 8010 SF

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 ARCHITECTS 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 4" ROUND 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
- ROOF WALKING PAD



1 A152 **UPPER ROOF PLAN**
SCALE: 3/16" = 1'-0" R.E. = 1/A301

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:55-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

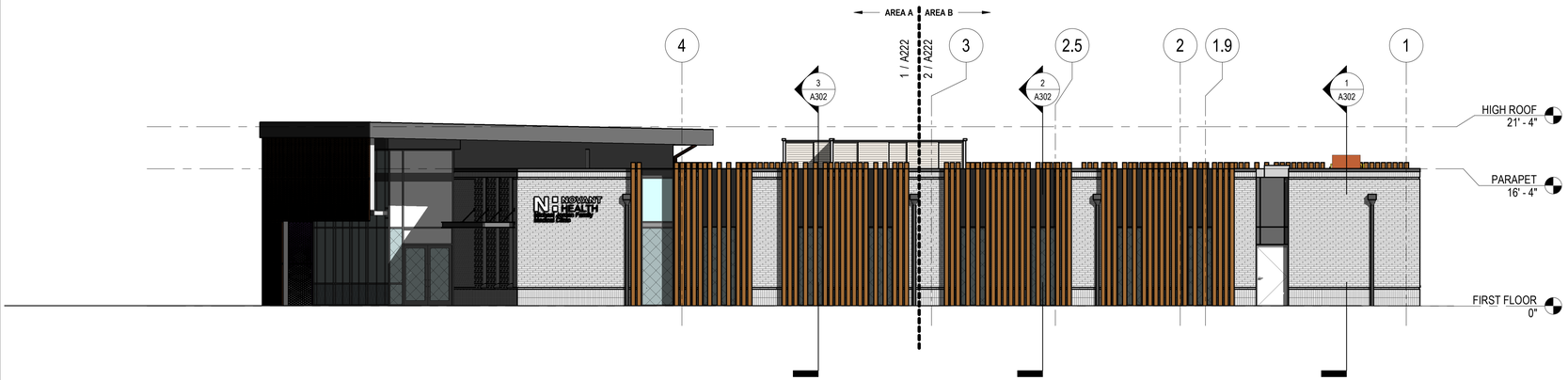
CONSTRUCTION DOCUMENTS

UPPER ROOF PLAN

ISSUE DATE 06/14/2023
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SHEET BY AVB
PROJECT NUMBER 21-010

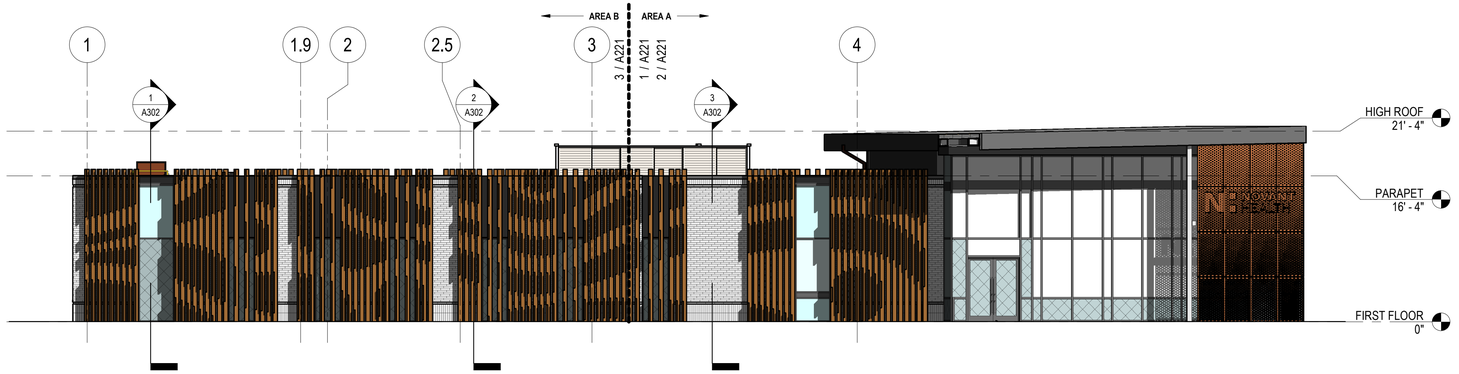
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06/14/2023



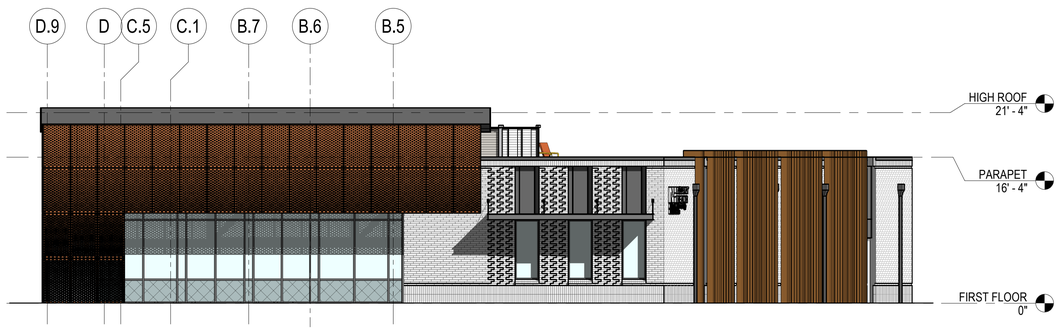
1 A201 **NORTH ELEVATION**

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



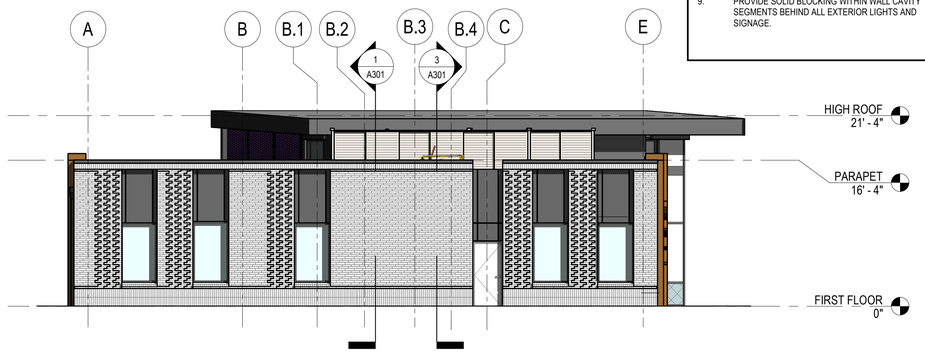
2 A201 **SOUTH ELEVATION**

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



3 A201 **EAST ELEVATION**

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



4 A201 **WEST ELEVATION**

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

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
M1	METAL PANEL - TO MATCH MULLIONS

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

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

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9. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

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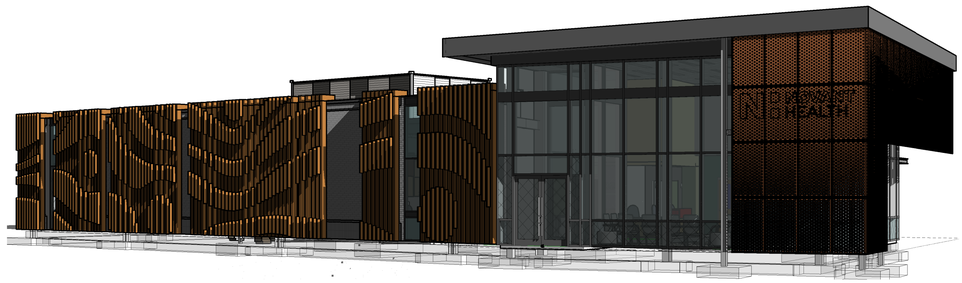
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CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS

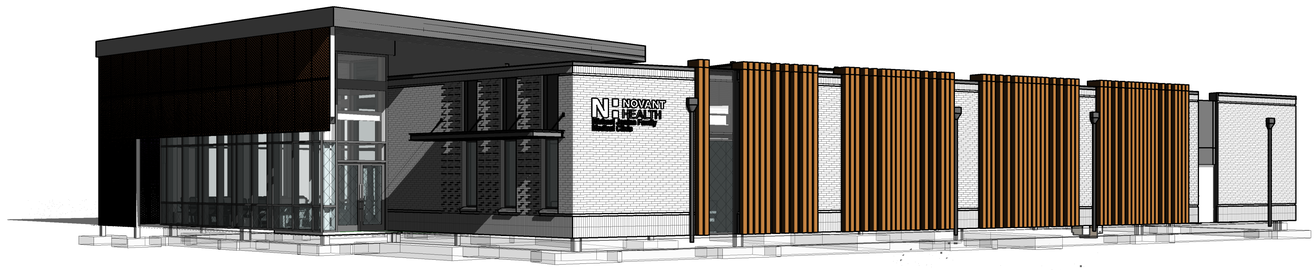
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PROJECT NUMBER 21-010

A201



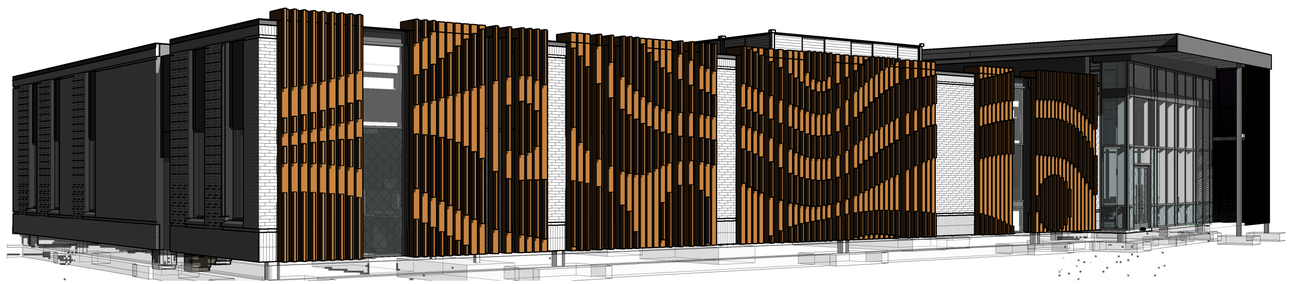
1 A211 **SOUTHEAST CORNER**

NOT TO SCALE



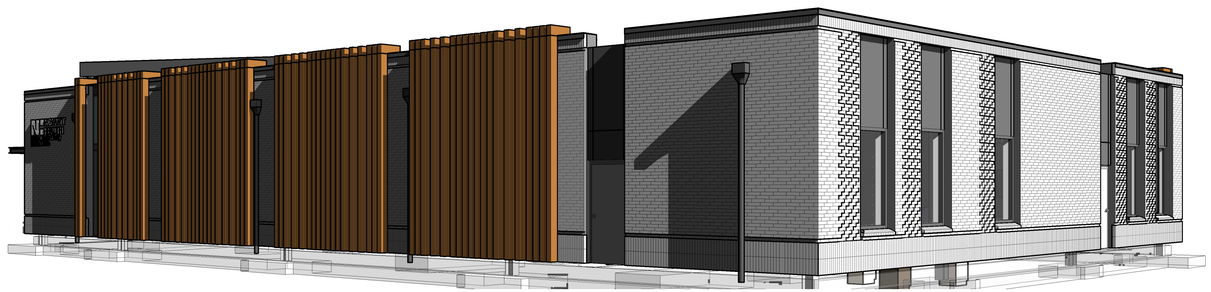
2 A211 **NORTHEAST CORNER**

NOT TO SCALE



3 A211 **SOUTHWEST CORNER**

NOT TO SCALE



4 A211 **NORTHWEST CORNER**

NOT TO SCALE

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ARCHITECTURE
CERT. NO. 51098
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, N.C.

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Frank A. Little Date: 2023.06.14 17:34:56-04'00'

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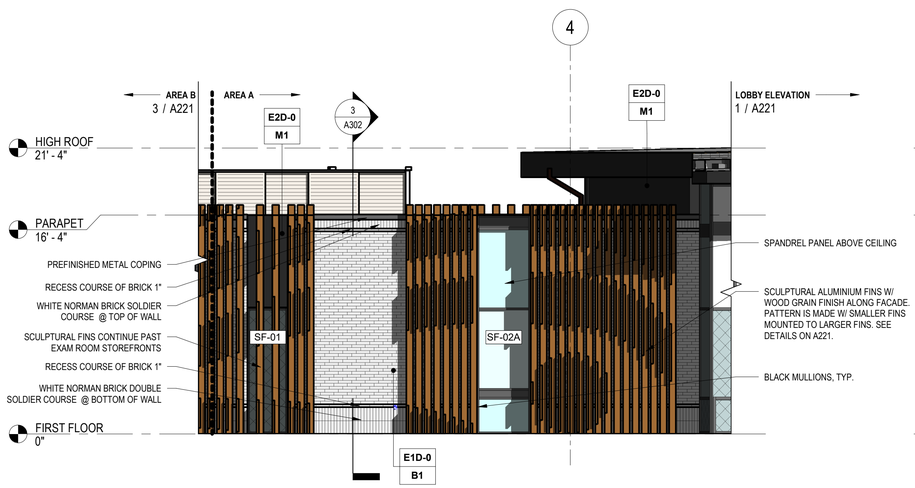
No.	Description	Date

CONSTRUCTION DOCUMENTS

3D VIEWS

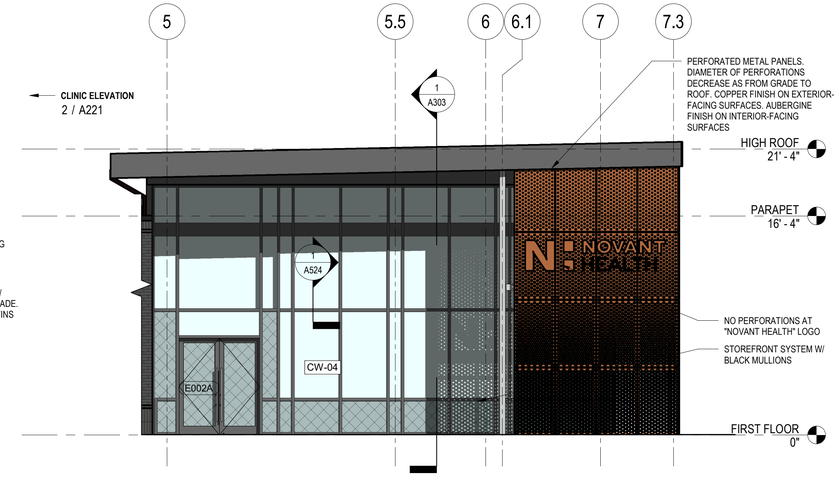
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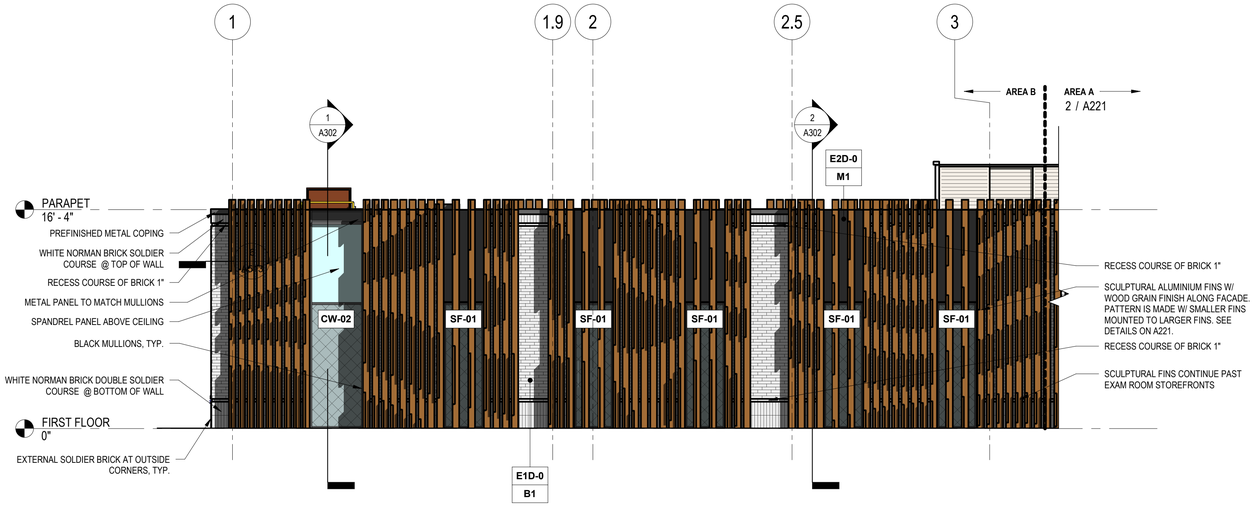
2 / A221 **SOUTH ELEVATION A.2**

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

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
M1	METAL PANEL - TO MATCH MULLIONS

EXTERIOR SYMBOL LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

- 1t — DOOR TAG
- 1t — WINDOW TAG (REFER TO A802 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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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

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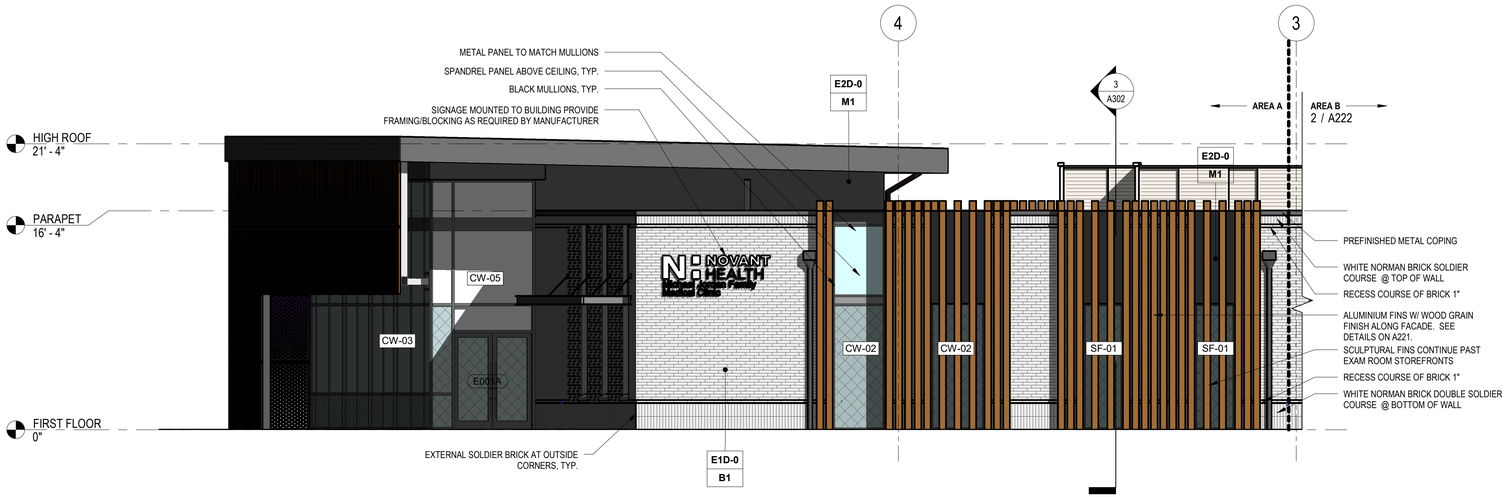
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CONSTRUCTION DOCUMENTS

ENLARGED EXTERIOR ELEVATIONS

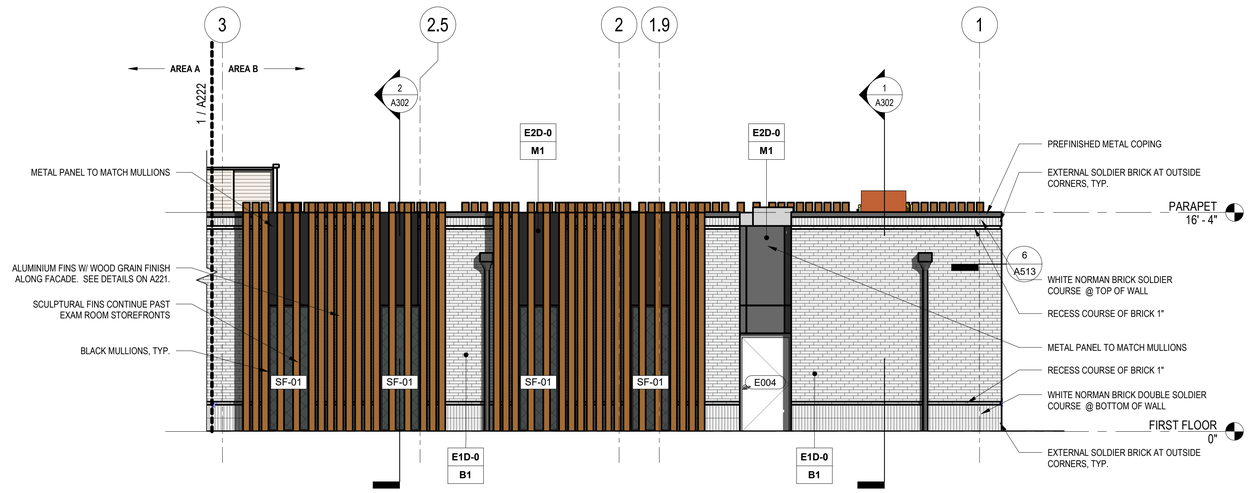
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A221



1 / A222 NORTH ELEVATION A

SCALE: 3/16" = 1'-0" R.E. = 1/A111



2 / A222 NORTH ELEVATION B

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

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
M1	METAL PANEL - TO MATCH MULLIONS

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

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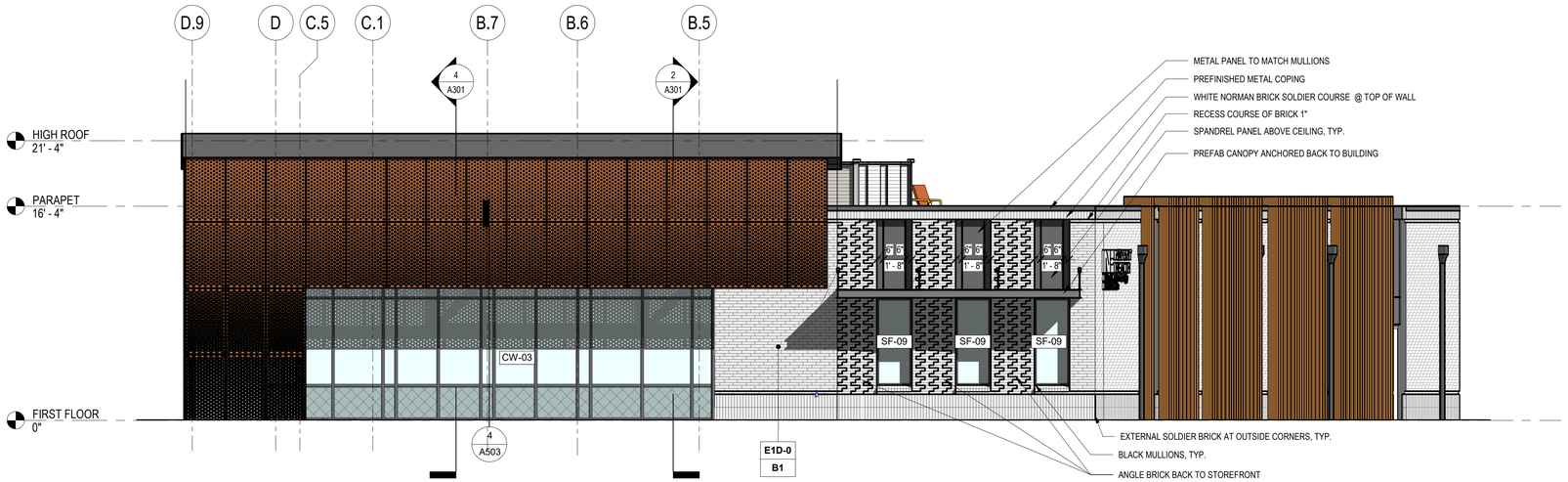
CONSTRUCTION DOCUMENTS

ENLARGED EXTERIOR ELEVATIONS

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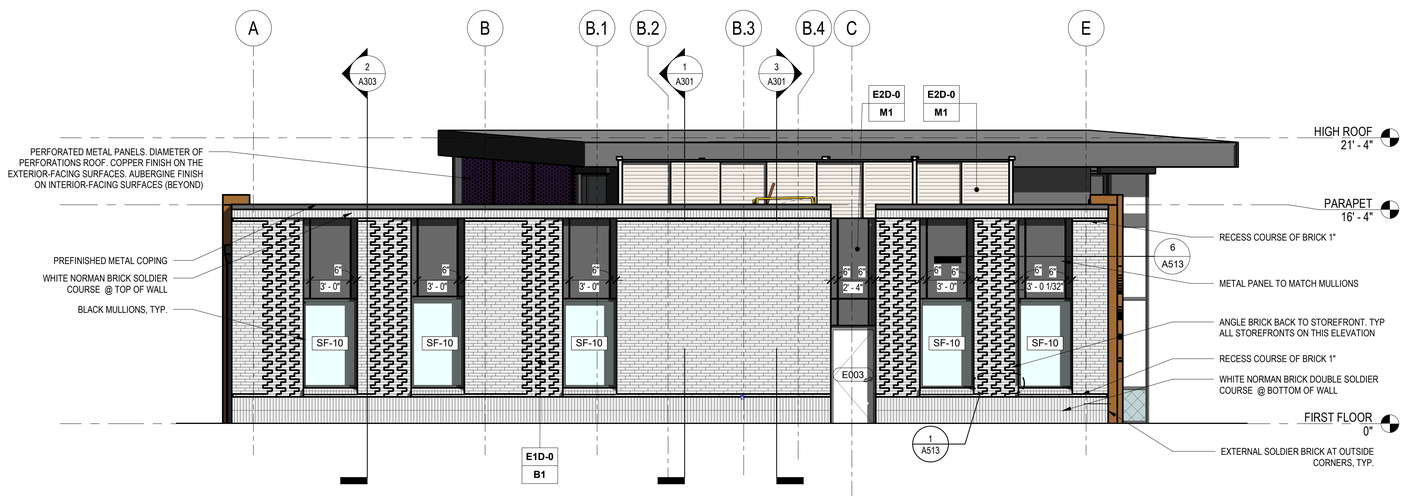
A222

06/14/2023



1 A223 **ENLARGED EAST ELEVATION**

SCALE: 3/16" = 1'-0" R.E. = 1/A111



2 A223 **ENLARGED WEST ELEVATION**

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

EXTERIOR COLOR LEGEND

B1	WHITE NORMAN BRICK - TBD
M1	METAL PANEL - TO MATCH MULLIONS

EXTERIOR SYMBOL LEGEND

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- ℄ — 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

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.06.14 17:34:57-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

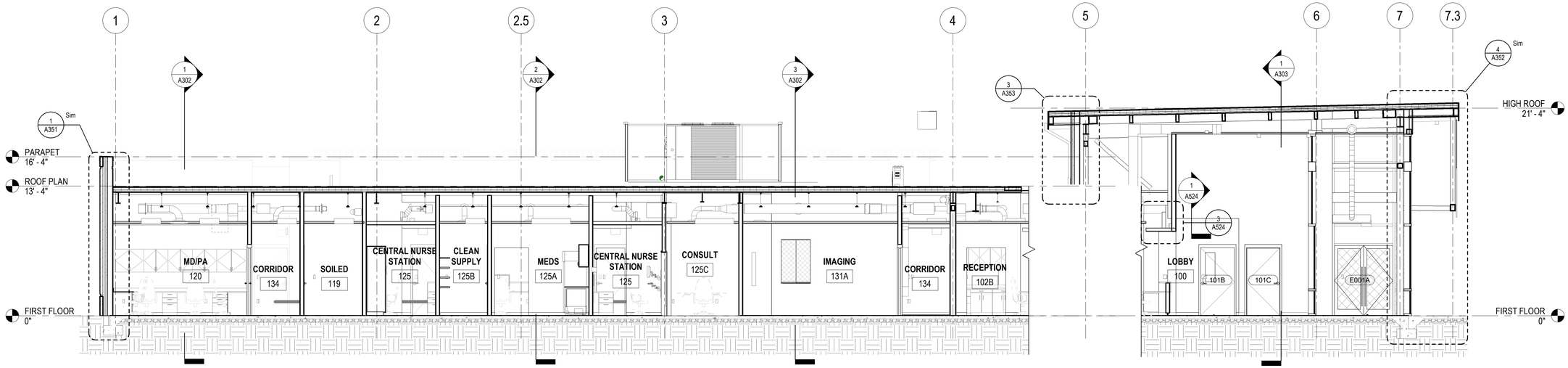
CONSTRUCTION DOCUMENTS

ENLARGED EXTERIOR ELEVATIONS

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A223

06/14/2023

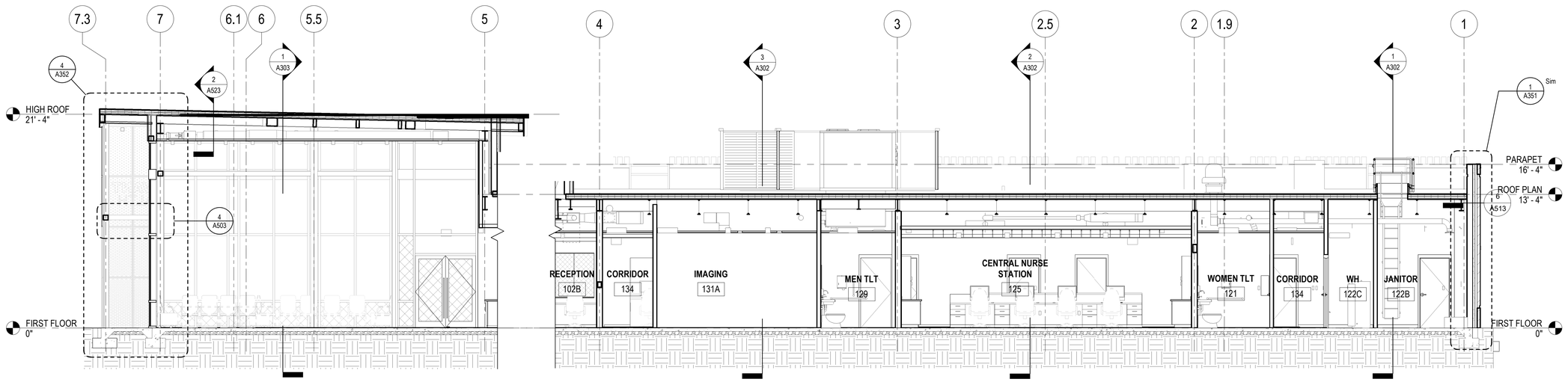


1 A301 **Section A1**

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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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

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Frank A. Little Date: 2023.06.14 17:34:58-04'00'

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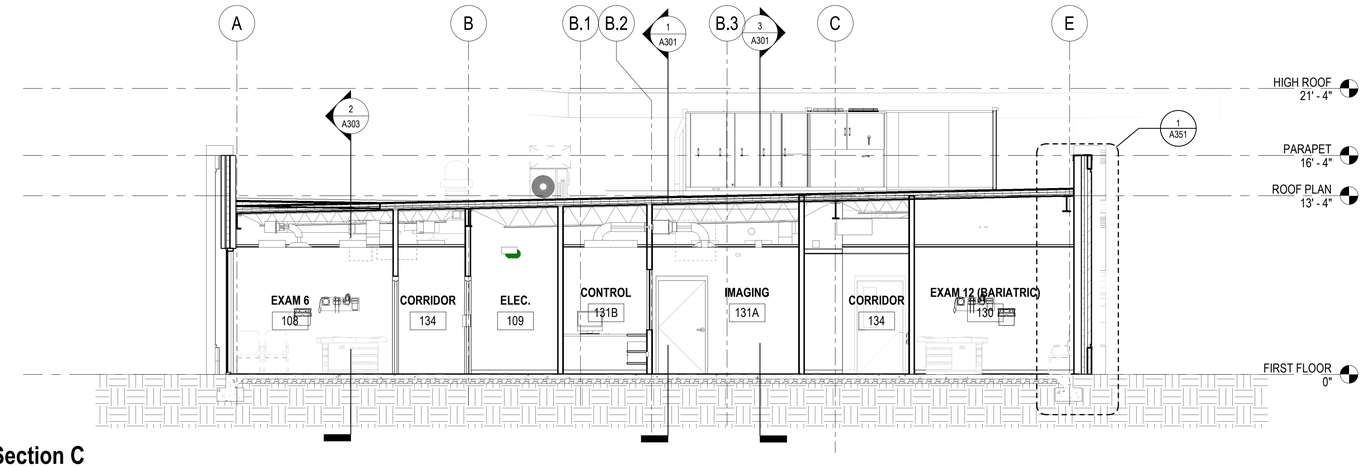
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CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

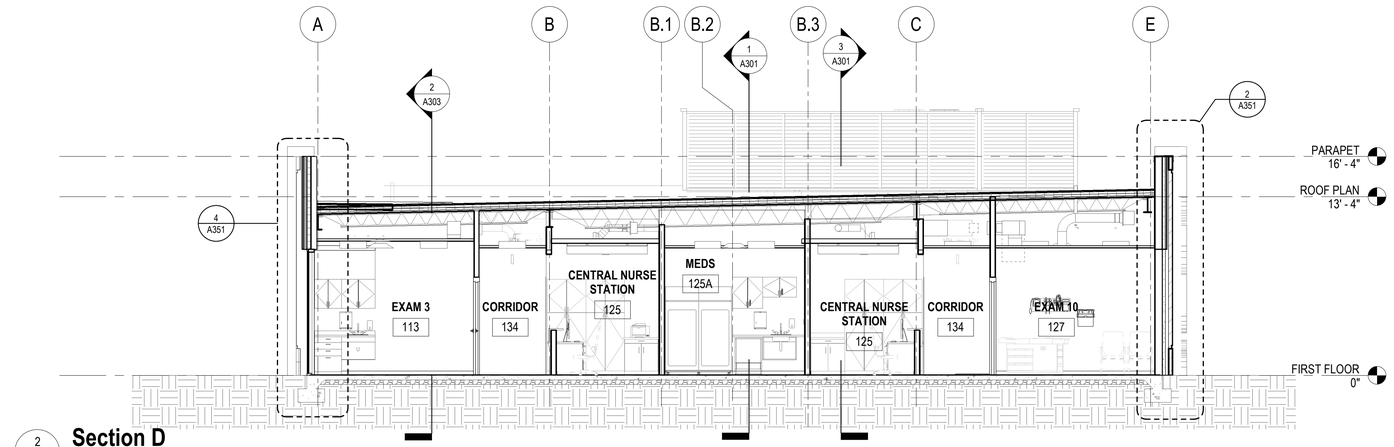
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CHECKED Checker
SHEET BY AB
PROJECT NUMBER 21-010

A301



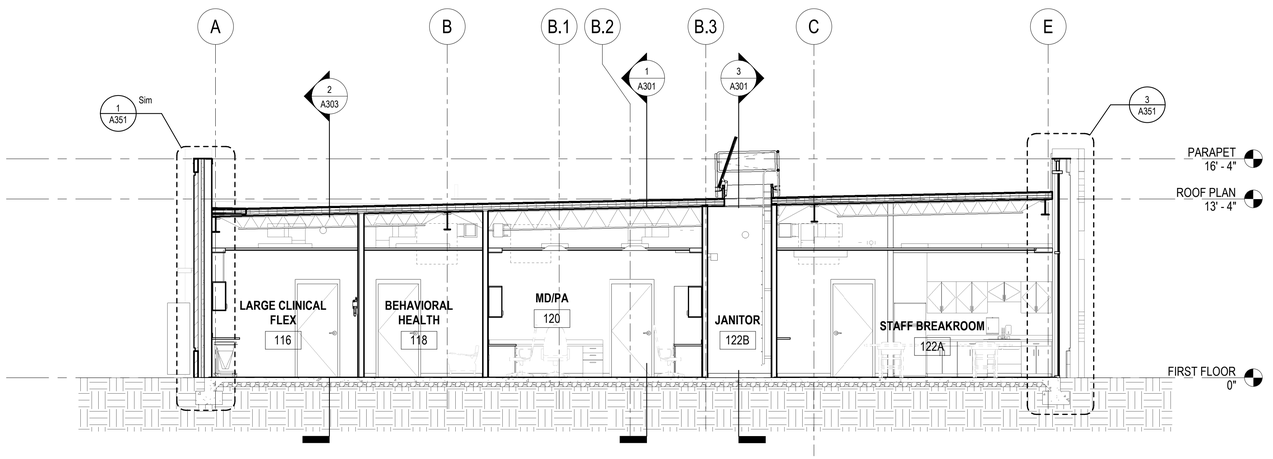
3 A302 **Section C**

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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Frank A. Little Date: 2023.06.14 17:34:58-04'00'

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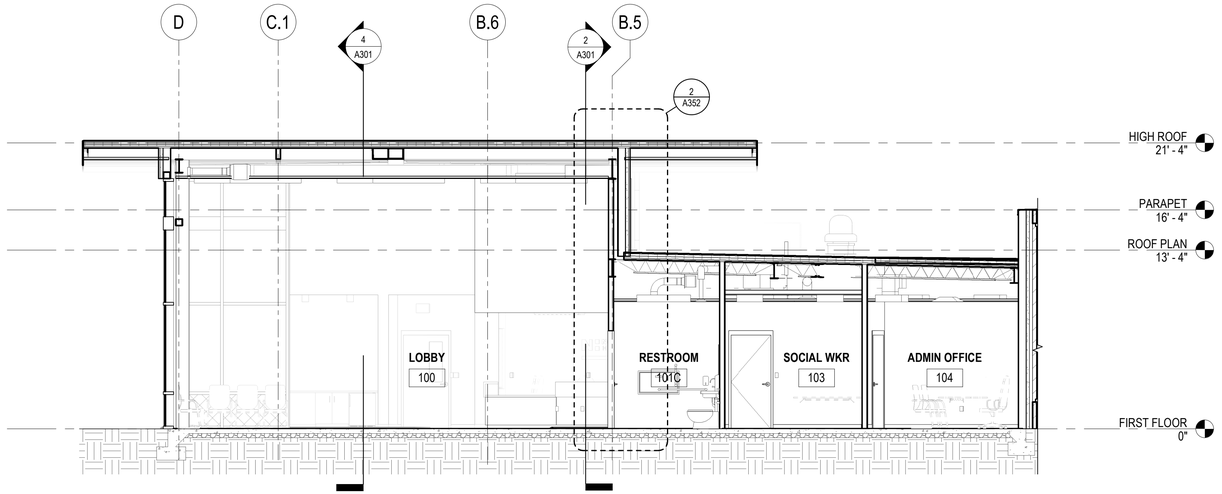
No.	Description	Date

CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

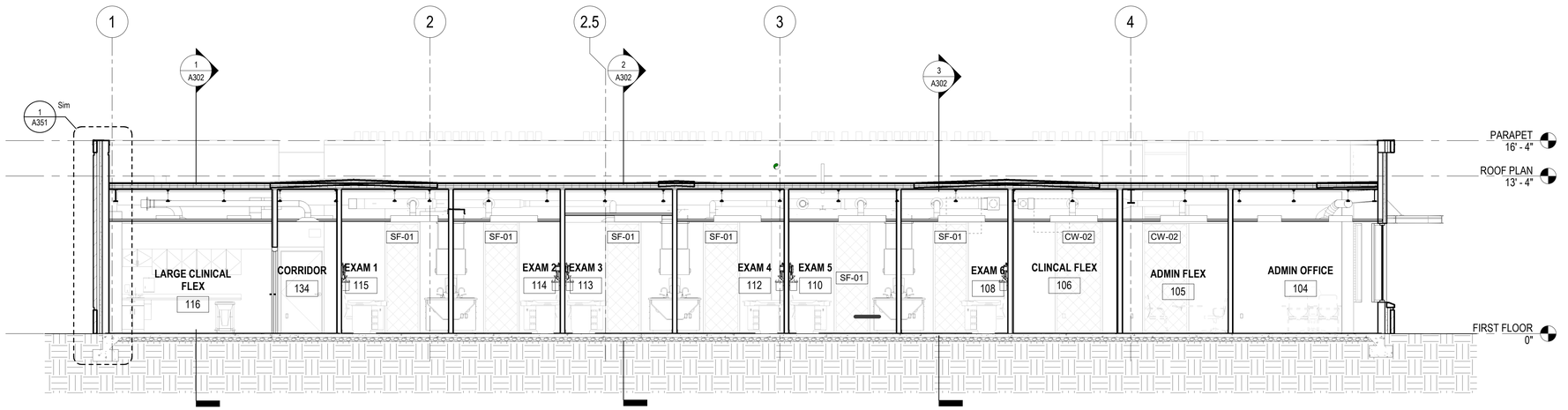
ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

A302



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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Frank A. Little Date: 2023.06.14 17:34:59-04'00'

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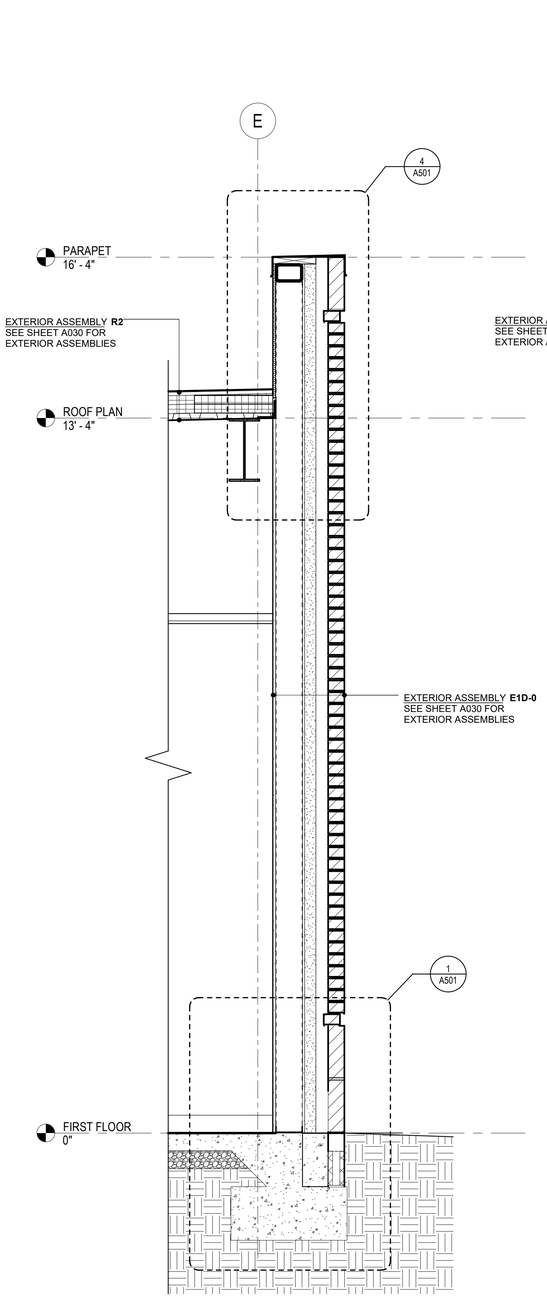
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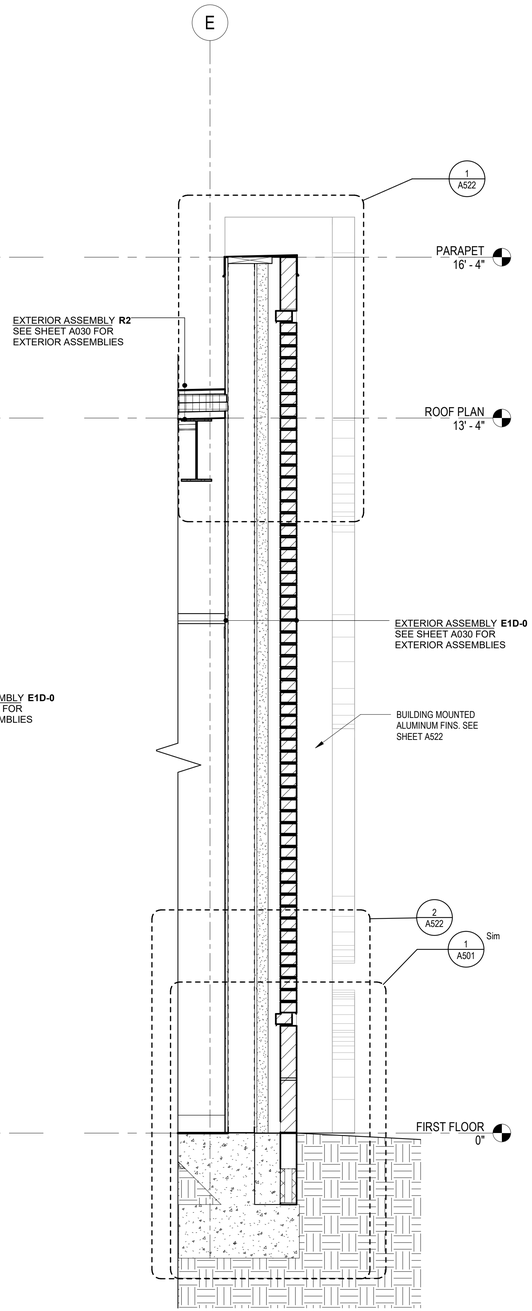
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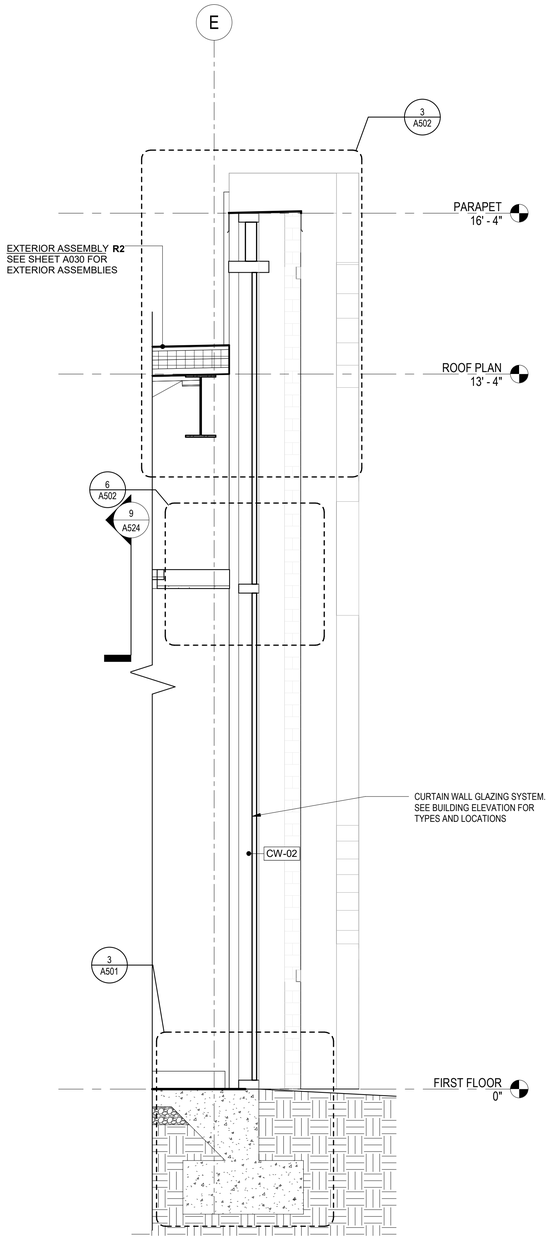
BUILDING SECTIONS

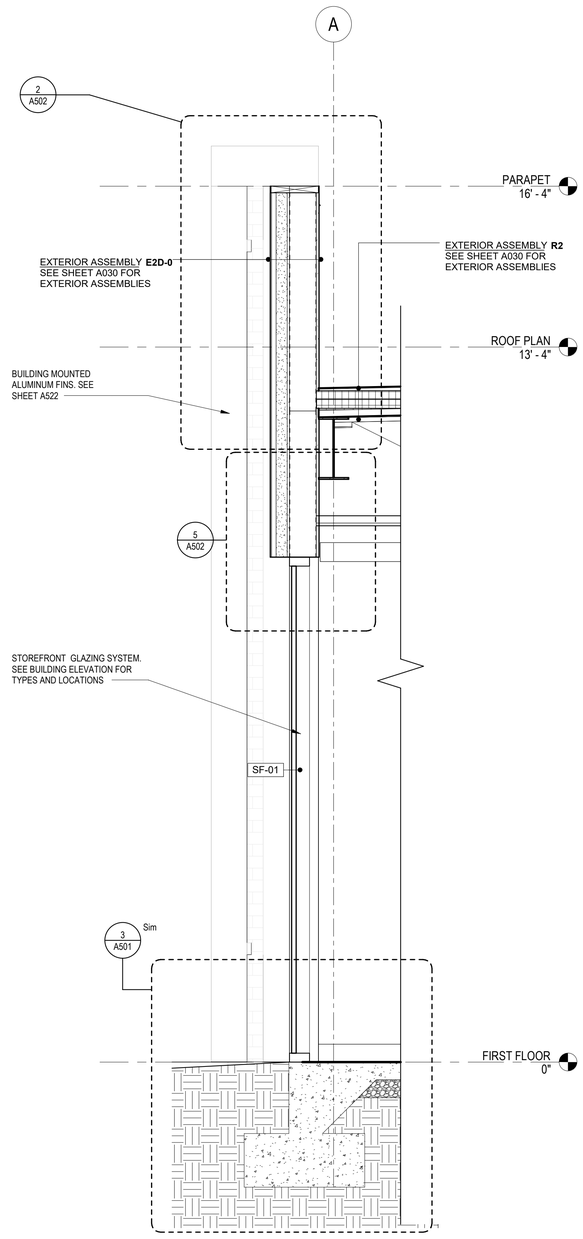
ISSUE DATE 06/14/2023
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A303









1 A351 **WALL SECTION 1 @ EXTERIOR WALL E1**
SCALE: 3/4" = 1'-0" R.E. = 1/A301

2 A351 **TYPICAL DETAIL @ ALUMINIUM FIN**
SCALE: 3/4" = 1'-0" R.E. = 2/A302

3 A351 **WALL SECTION @ STOREFRONT W/ ALUMINUM FIN**
SCALE: 3/4" = 1'-0" R.E. = 1/A302

4 A351 **WALL SECTION @ CURTAINWALL W/ NO FIN**
SCALE: 3/4" = 1'-0" R.E. = 2/A302

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Frank A. Little Date: 2023.06.14 17:35:00-04'00'

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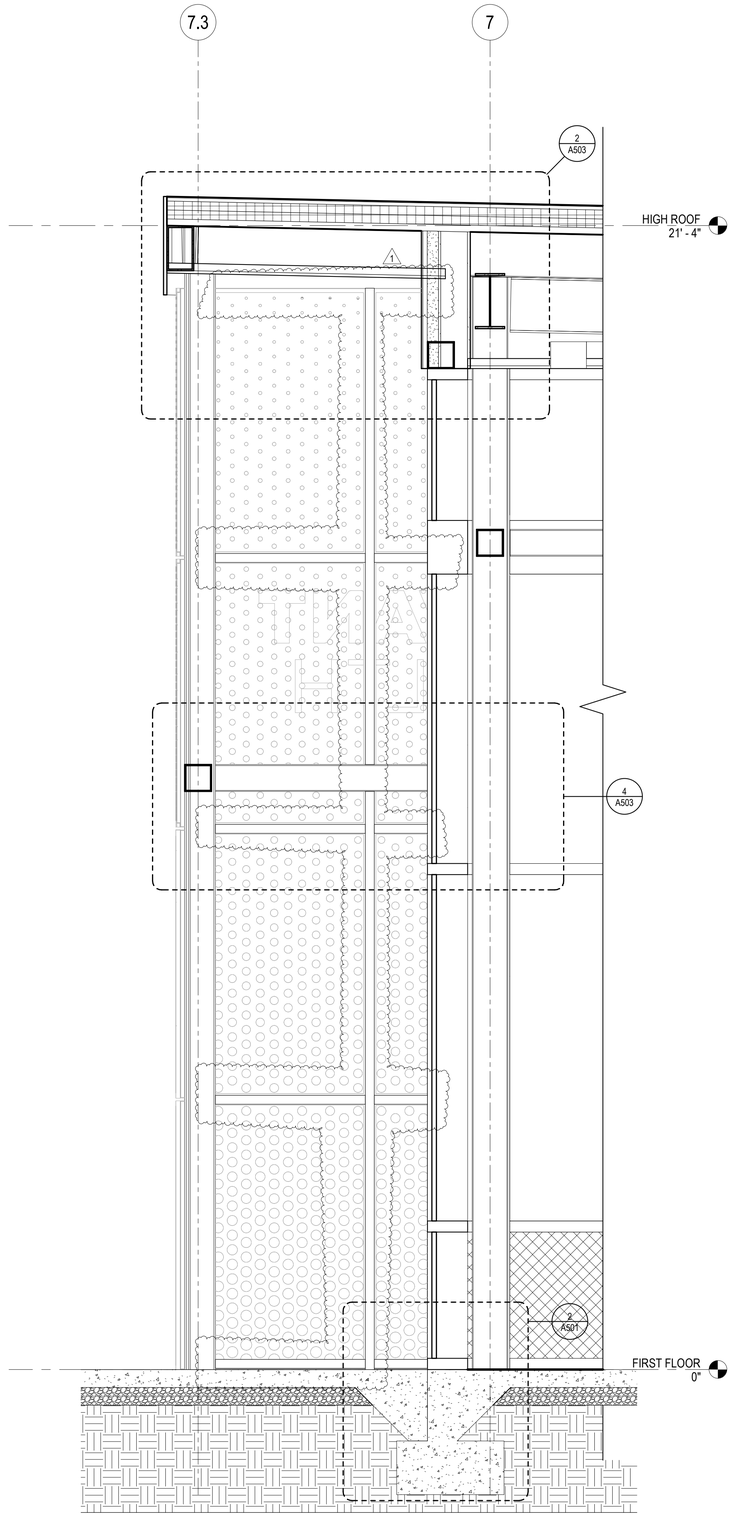
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CONSTRUCTION DOCUMENTS

WALL SECTIONS

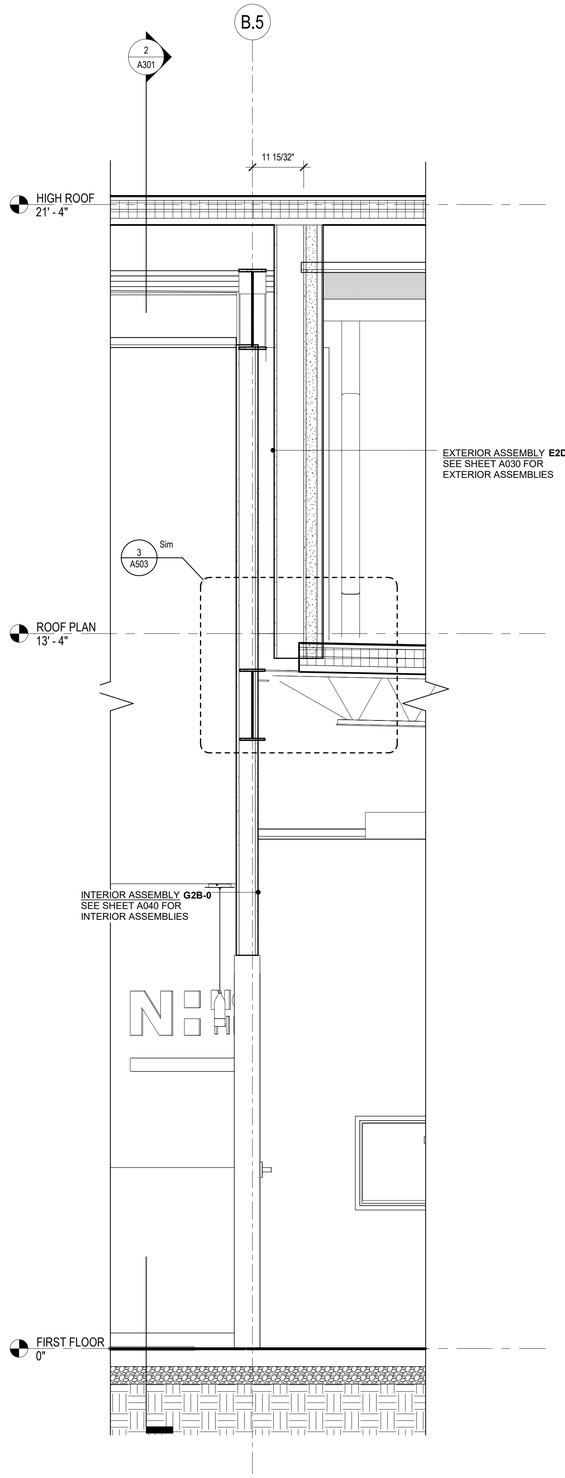
ISSUE DATE 06/14/2023
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A351



4 A352 **SECTION AT LOBBY B2**

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



2 A352 **SECTION AT LOBBY B**

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

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Frank A. Little Date: 2023.08.16 18:16:02-04'00'

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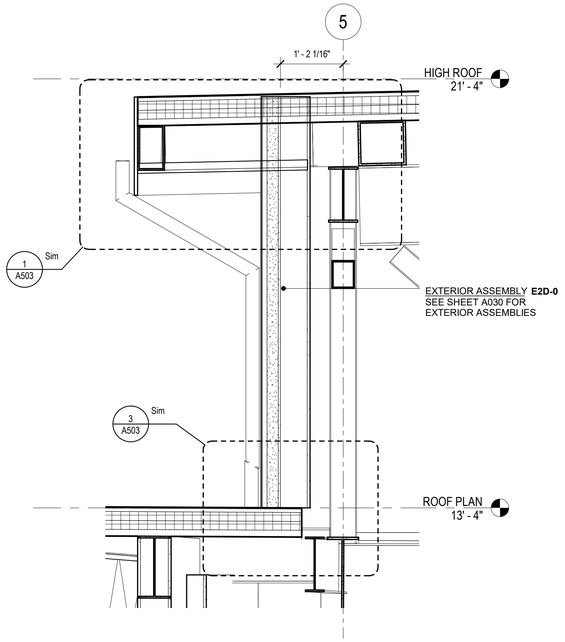
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1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

WALL SECTIONS

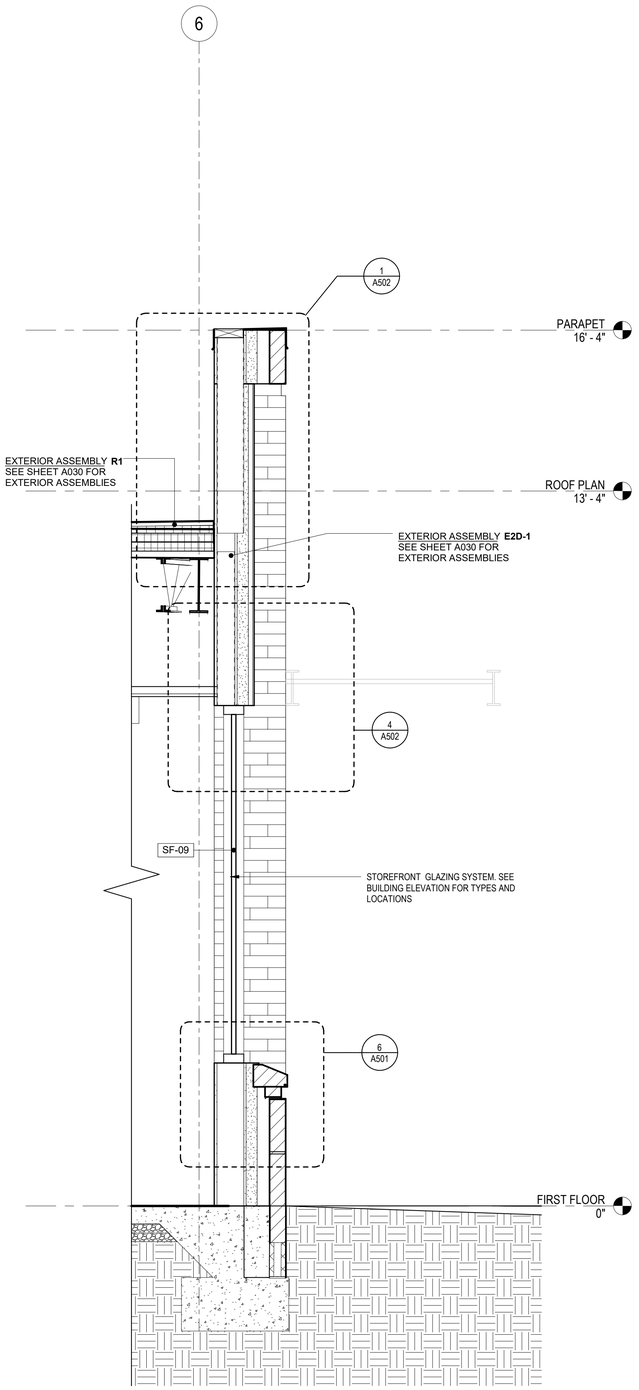
ISSUE DATE 05/26/2023
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PROJECT NUMBER 21-010

A352



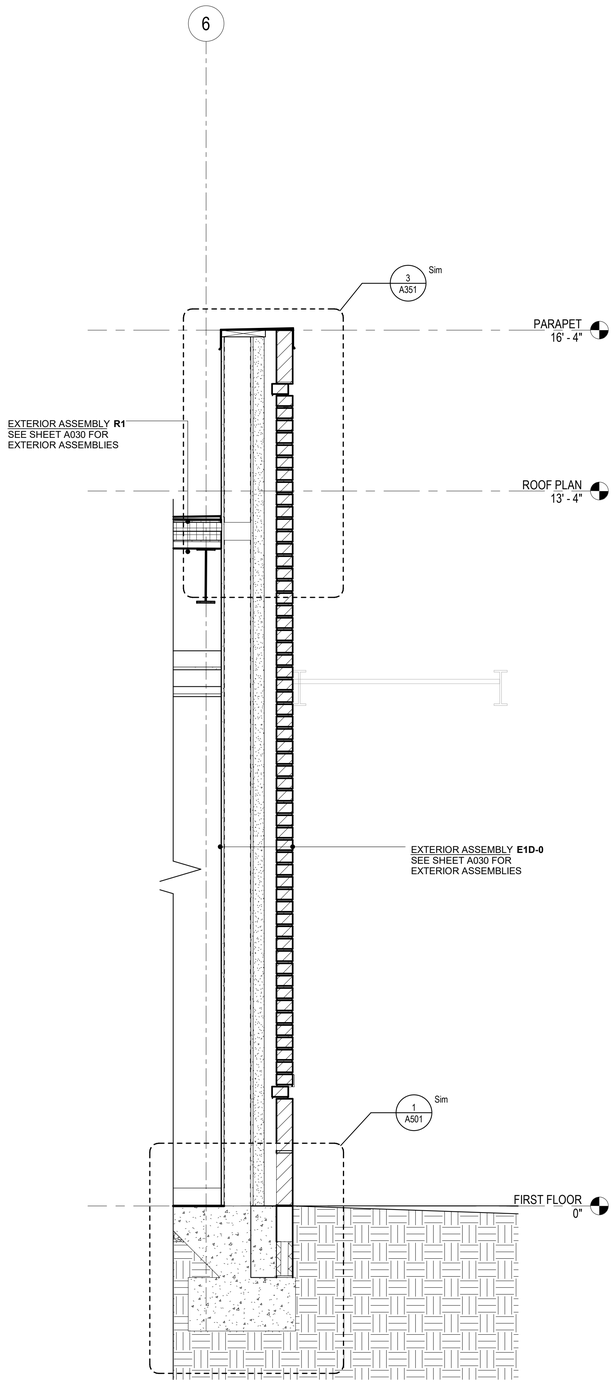
3 A353 **HIGH TO LOW ROOF SECTION DETAIL @ METAL PANEL**

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



2 A353 **WALL SECTION @ STOREFRONT AND CANOPY**

SCALE: 3/4" = 1'-0" R.E. = 1 / A111



1 A353 **WALL SECTION @ CANOPY**

SCALE: 3/4" = 1'-0" R.E. = 1 / A111

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Frank A. Little Date: 2023.06.14 17:35:01-04'00'

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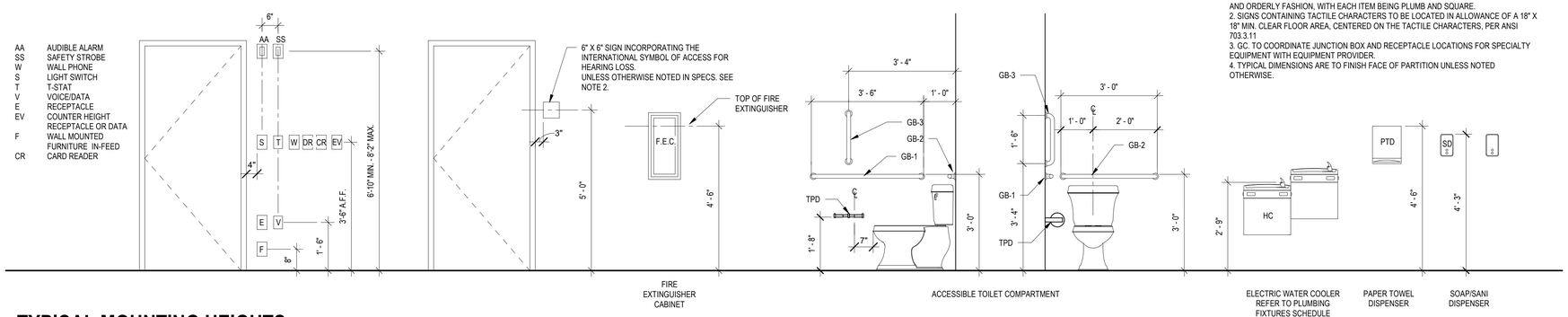
No.	Description	Date

CONSTRUCTION DOCUMENTS

WALL SECTIONS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

A353



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.
4. TYPICAL DIMENSIONS ARE TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE.

7 A401

TYPICAL MOUNTING HEIGHTS

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

GENERAL NOTES

1. SEE A721 FOR FINISH LEGEND, SCHEDULE, AND CASEWORK LEGEND
2. OFCO ITEM LOCATIONS TO BE COORDINATED WITH OWNER.
3. ACCESSORY MOUNTING HEIGHTS MUST BE IN REACH RANGES SHOWN ON A051
4. REFER TO ACCESSIBILITY DIAGRAM FOR KNEE AND TOE CLEARANCE DIAGRAM.
5. SEE A401 FOR TYPICAL MOUNTING HEIGHTS

ACCESSORIES LEGEND

PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-3	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI

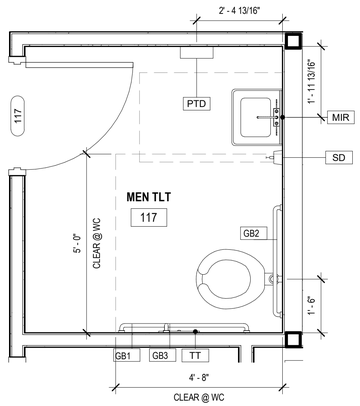
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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

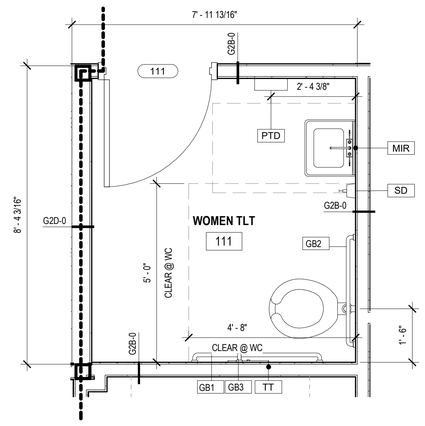
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Date: 2023.06.14 17:35:02-04'00'



2 A401

MEN'S TOILET - 117

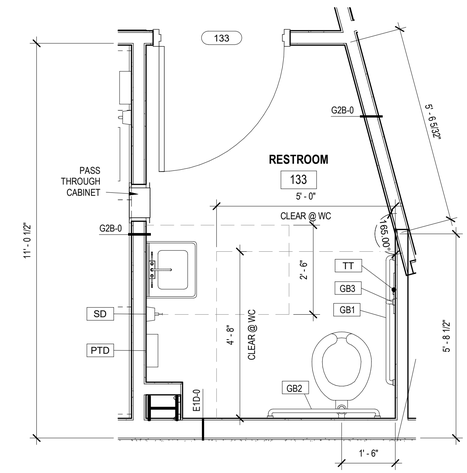
SCALE: 1/2" = 1'-0" R.E. = 1/A112



3 A401

WOMEN'S TOILET - 111

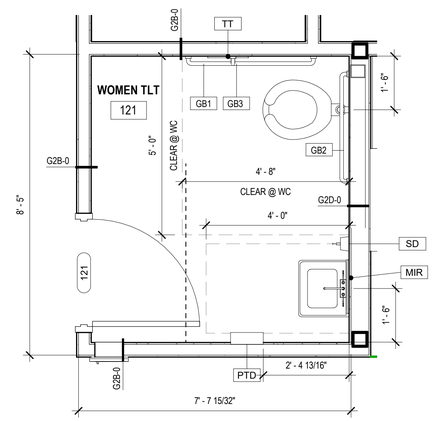
SCALE: 1/2" = 1'-0" R.E. = 1/A111



5 A401

RESTROOM - 133

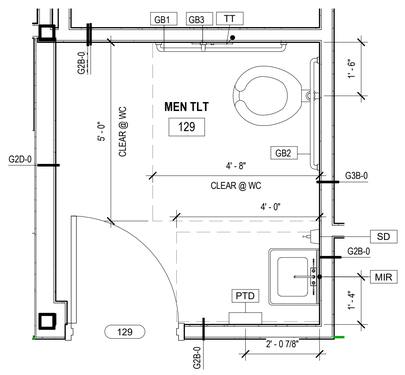
SCALE: 1/2" = 1'-0" R.E. = 1/A111



1 A401

WOMEN'S TOILET - 121

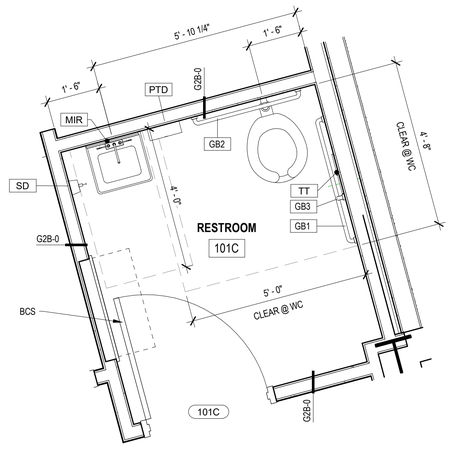
SCALE: 1/2" = 1'-0" R.E. = 1/A112



4 A401

MEN'S TOILET - 129

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



6 A401

RESTROOM - 101C

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

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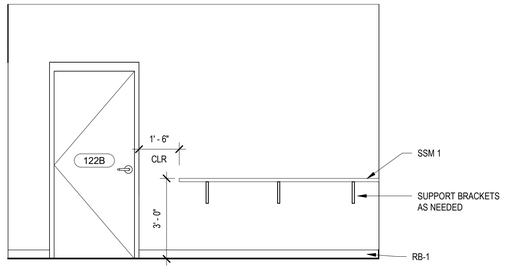
No.	Description	Date

CONSTRUCTION DOCUMENTS

TOILET PLANS AND ELEVATIONS

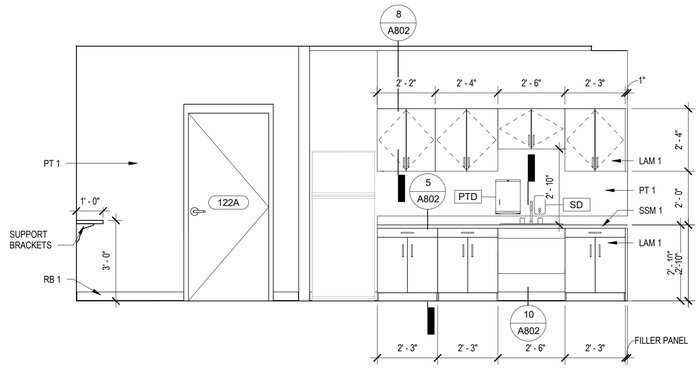
ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

A401



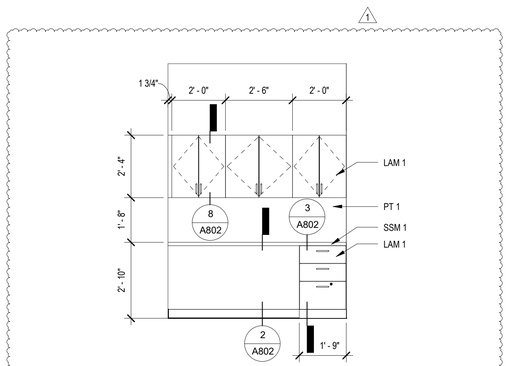
1 A402 BREAKROOM - NORTH

SCALE: 3/8" = 1'-0" R.E. = 9/A402



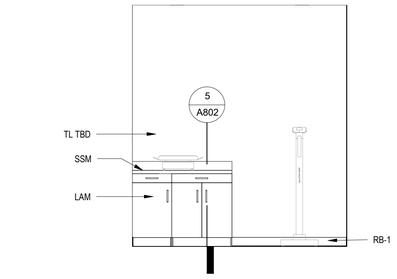
2 A402 BREAK ROOM

SCALE: 3/8" = 1'-0" R.E. = 9/A402



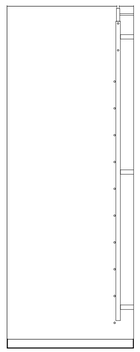
4 A402 FLEX OFFICE

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



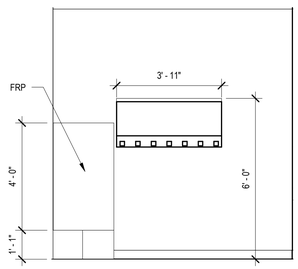
7 A402 VITALS 2

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



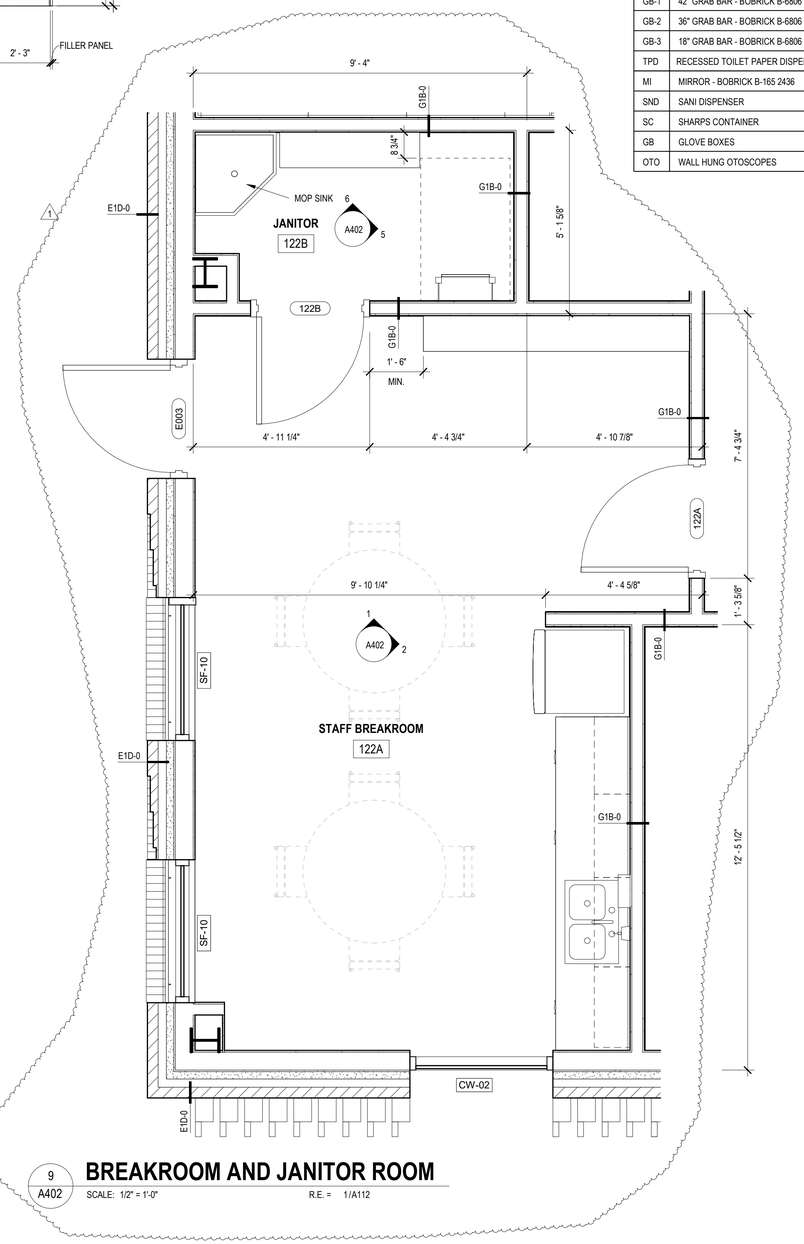
5 A402 JANITOR - EAST

SCALE: 3/8" = 1'-0" R.E. = 9/A402



6 A402 JANITOR - NORTH

SCALE: 3/8" = 1'-0" R.E. = 9/A402



9 A402 BREAKROOM AND JANITOR ROOM

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

GENERAL NOTES

1. SEE A721 FOR FINISH LEGEND, SCHEDULE, AND CASEWORK LEGEND
2. OFCO ITEM LOCATIONS TO BE COORDINATED WITH OWNER.
3. ACCESSORY MOUNTING HEIGHTS MUST BE IN REACH RANGES SHOWN ON A051
4. REFER TO ACCESSIBILITY DIAGRAM FOR KNEE AND TOE CLEARANCE DIAGRAM.
5. SEE A401 FOR TYPICAL MOUNTING HEIGHTS

ACCESSORIES LEGEND

PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-3	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI

neighboring concepts
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NEIGHBORING CONCEPTS PLLC · ARCHITECTURE · INTERIOR DESIGN · CERT. NO. 51098 · CHARLOTTE, NC

FRANK ARNELL LITTLE · REGISTERED ARCHITECT · 9404 · NORTH CAROLINA · MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

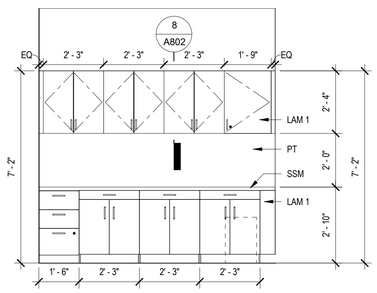
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

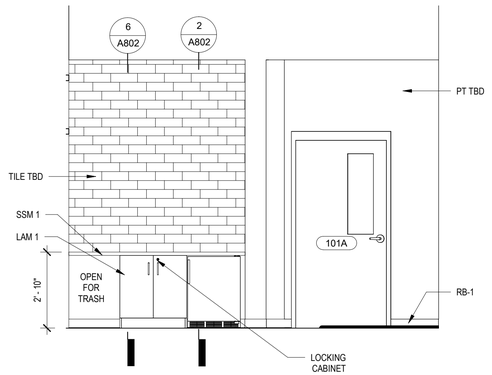
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ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

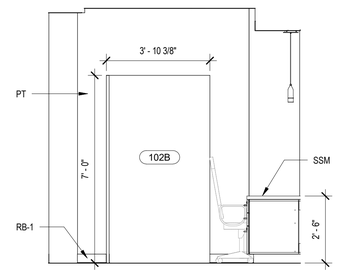
A402



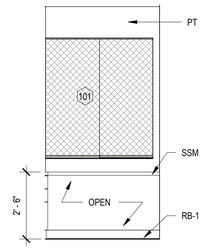
9 A403 **COPY/FAX**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



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



10 A403 **RECEPTION NORTH**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



6 A403 **CHECK OUT**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403

GENERAL NOTES

1. SEE A721 FOR FINISH LEGEND, SCHEDULE, AND CASEWORK LEGEND
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5. SEE A401 FOR TYPICAL MOUNTING HEIGHTS

ACCESSORIES LEGEND

PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-3	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI

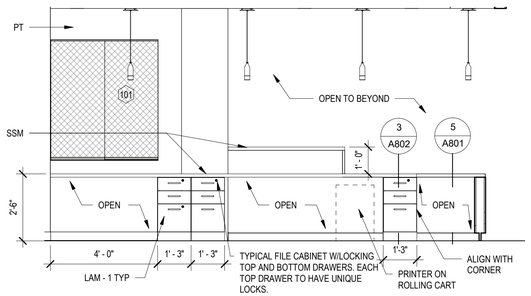
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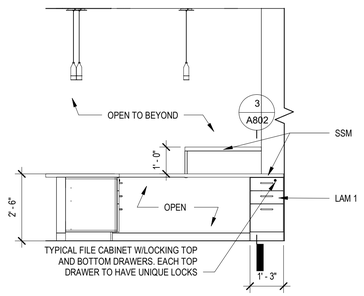
NEIGHBORING CONCEPTS PLLC
CERT. NO. C-2965
CERTIFICATE OF AUTHORIZATION
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, N.C.

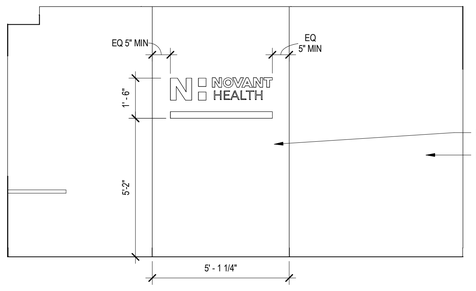
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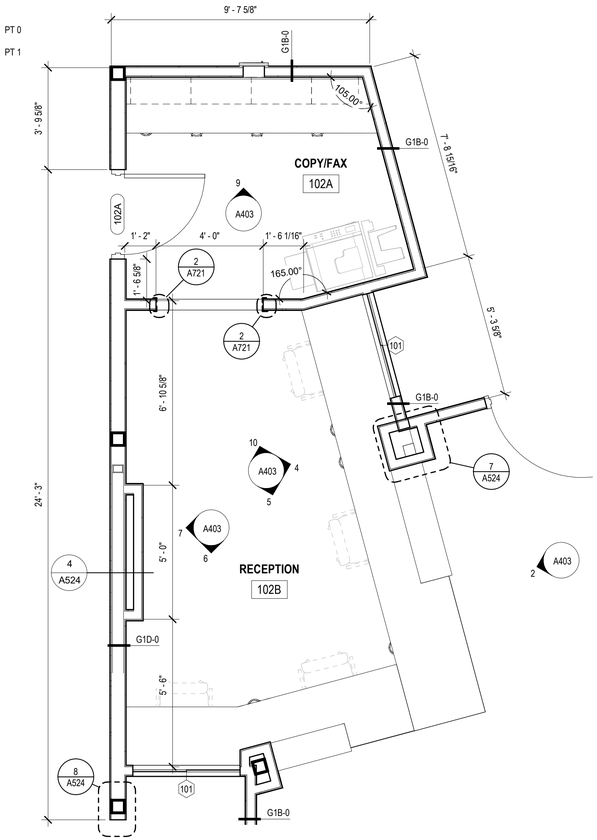
4 A403 **RECEPTION BACK**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



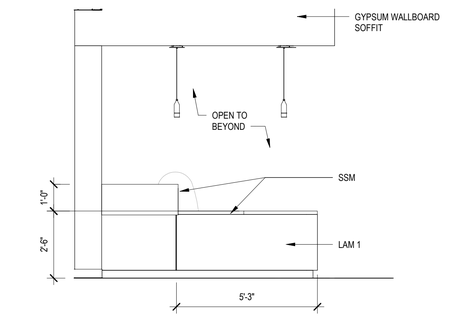
5 A403 **RECEPTION BACK 2**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



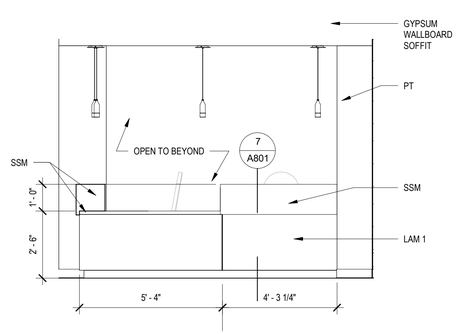
7 A403 **RECEPTION SIGNAGE**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403



1 A403 **RECEPTION ENLARGED PLAN**
SCALE: 3/8" = 1'-0" R.E. = 1/A111



3 A403 **RECEPTION FRONT - SOUTH**
SCALE: 3/8" = 1'-0" R.E. = /



2 A403 **RECEPTION FRONT - EAST**
SCALE: 3/8" = 1'-0" R.E. = 1 / A403

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

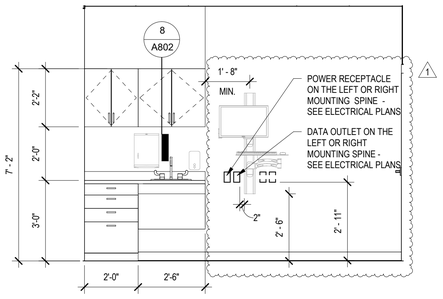
No.	Description	Date

CONSTRUCTION DOCUMENTS

RECEPTION ENLARGED

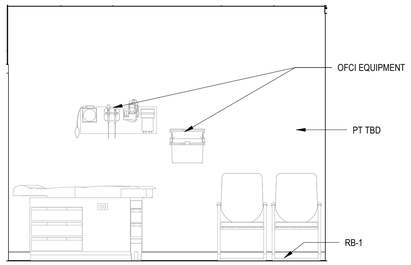
ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

A403



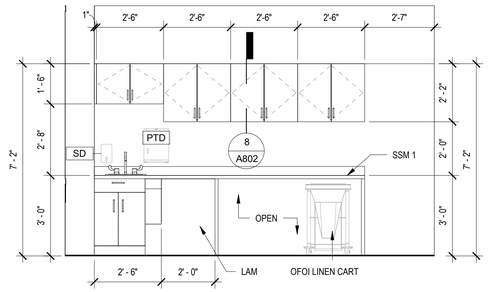
3 A404 **EXAM ROOM TYP.**

SCALE: 3/8" = 1'-0" R.E. = 1/A404



2 A404 **EXAM ACCENT ROOM**

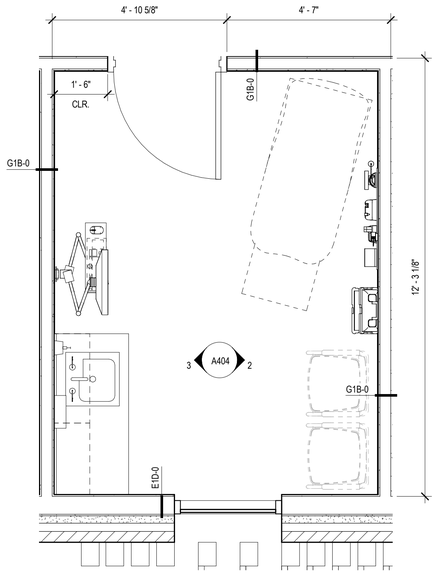
SCALE: 3/8" = 1'-0" R.E. = 1/A404



5 A404 **LARGE CLNICAL FLEX 116**

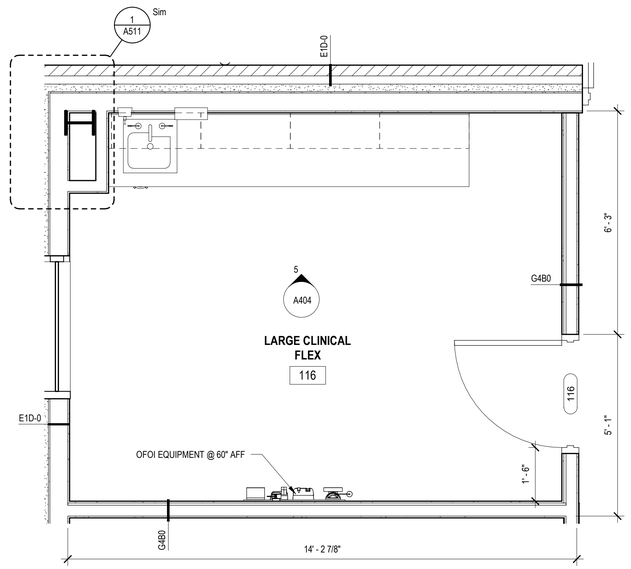
SCALE: 3/8" = 1'-0" R.E. = 4/A404





1 A404 **TYPICAL EXAM ROOM ENLARGED PLAN**

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



4 A404 **CLINICAL FLEX ROOM ENLARGED**

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

GENERAL NOTES

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2. OFCO ITEM LOCATIONS TO BE COORDINATED WITH OWNER.
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4. REFER TO ACCESSIBILITY DIAGRAM FOR KNEE AND TOE CLEARANCE DIAGRAM.
5. SEE A401 FOR TYPICAL MOUNTING HEIGHTS

ACCESSORIES LEGEND

PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-3	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI

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NEIGHBORING CONCEPTS PLLC ARCHITECTURE CERT. NO. 51098 CHARLOTTE, NC

FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

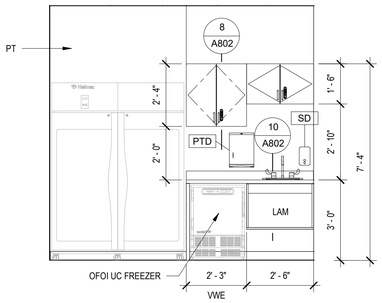
CONSTRUCTION DOCUMENTS

EXAM/LARGE CLINICAL FLEX ENLARGED

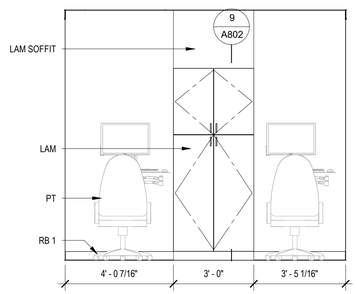
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SHEET BY Author
PROJECT NUMBER 21-010

A404

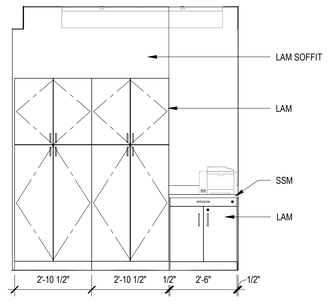
06/14/2023



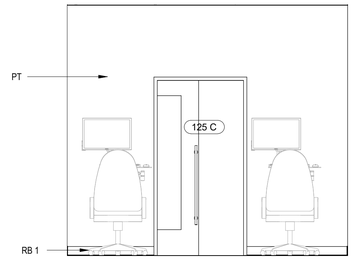
1 A405 **MEDS ROOM CASEWORK**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



2 A405 **MD TOUCHDOWN WEST**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



3 A405 **NURSE STATION PRINTER CASEWORK TYP**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



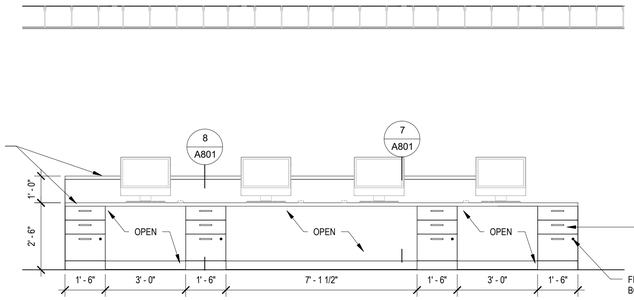
4 A405 **MD TOUCHDOWN EAST**
SCALE: 3/8" = 1'-0" R.E. = 9/A405

GENERAL NOTES

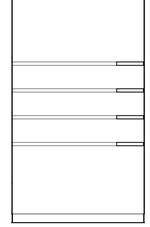
1. SEE A721 FOR FINISH LEGEND, SCHEDULE, AND CASEWORK LEGEND
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ACCESSORIES LEGEND

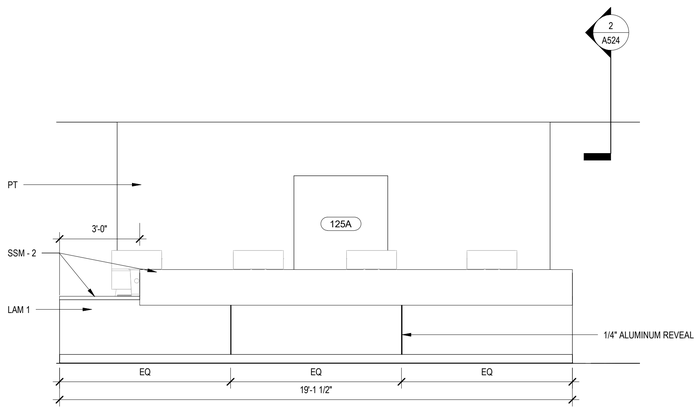
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
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TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI



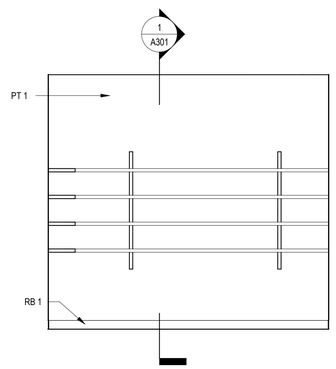
5 A405 **NURSE STATION BACK**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



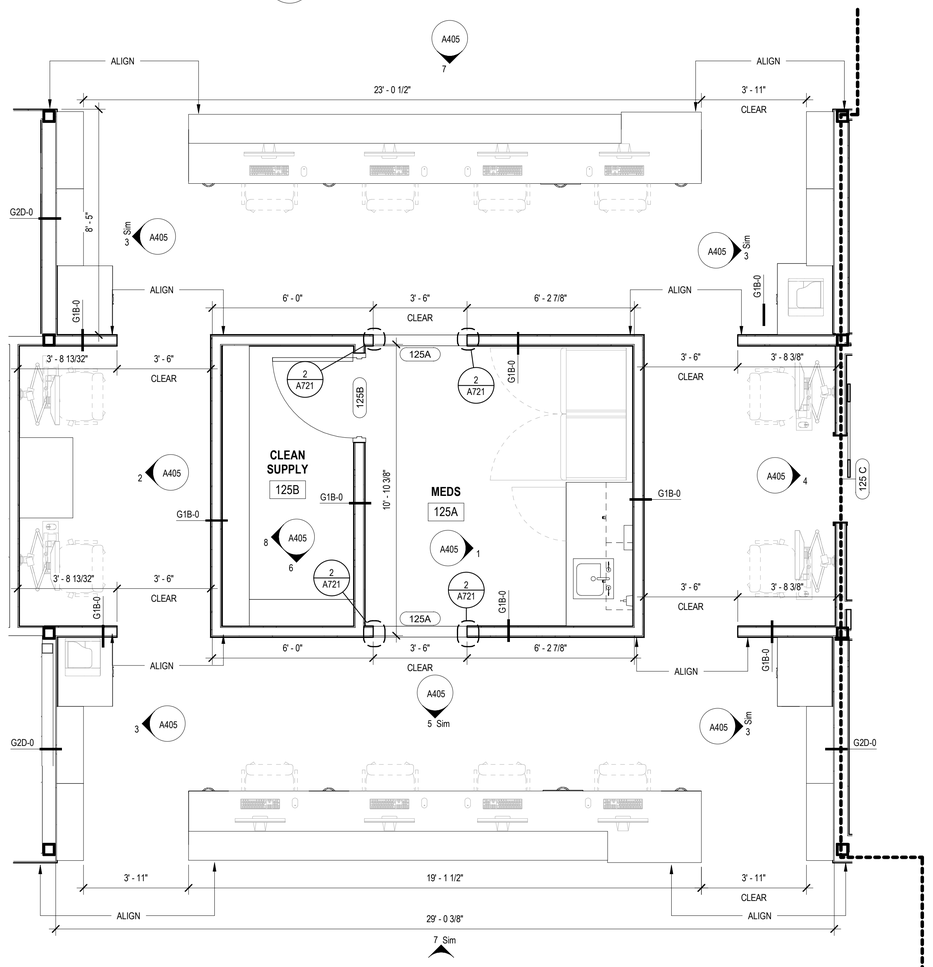
6 A405 **CLEAN - SOUTH**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



7 A405 **NURSE STATION FRONT**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



8 A405 **CLEAN - WEST**
SCALE: 3/8" = 1'-0" R.E. = 9/A405



9 A405 **NURSE STATION ENLARGED PLAN**
SCALE: 3/8" = 1'-0" R.E. = 1/A112

neighboring concepts
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Charlotte, North Carolina 28216
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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:04-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

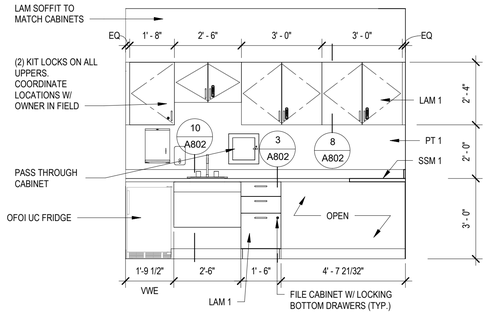
No.	Description	Date

CONSTRUCTION DOCUMENTS

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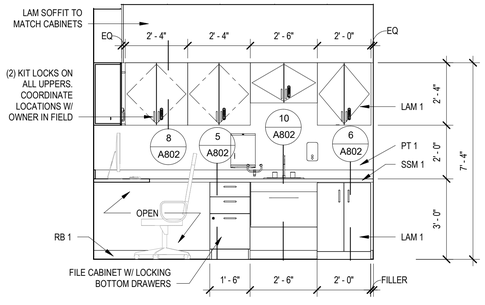
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PROJECT NUMBER 21-010

A405



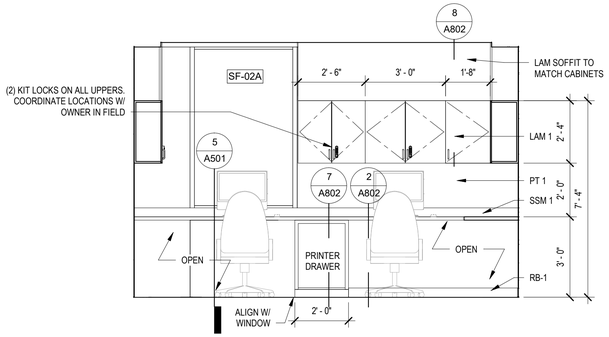
1 A406 **BLOOD DRAW EAST**

SCALE: 3/8" = 1'-0" R.E. = 4/A406



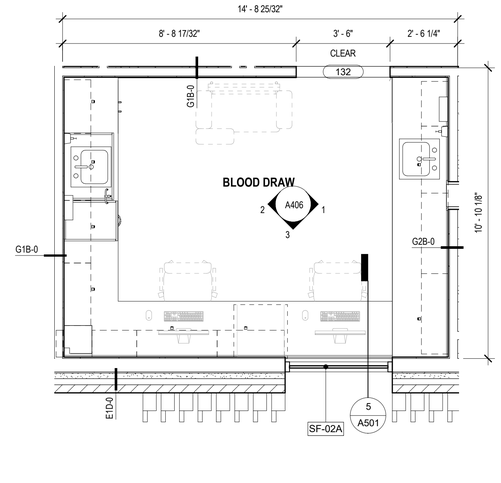
2 A406 **BLOOD DRAW WEST**

SCALE: 3/8" = 1'-0" R.E. = 4/A406



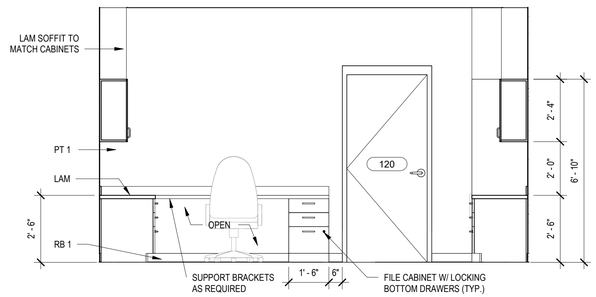
3 A406 **BLOOD DRAW SOUTH**

SCALE: 3/8" = 1'-0" R.E. = 5/A401



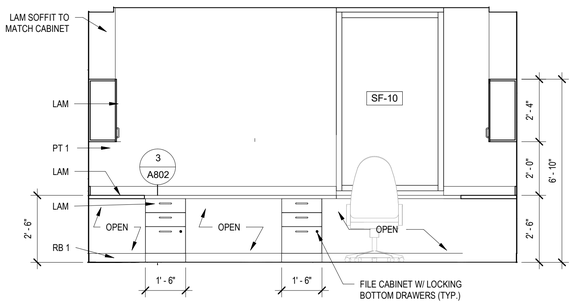
4 A406 **BLOOD DRAW ENLARGED PLAN**

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



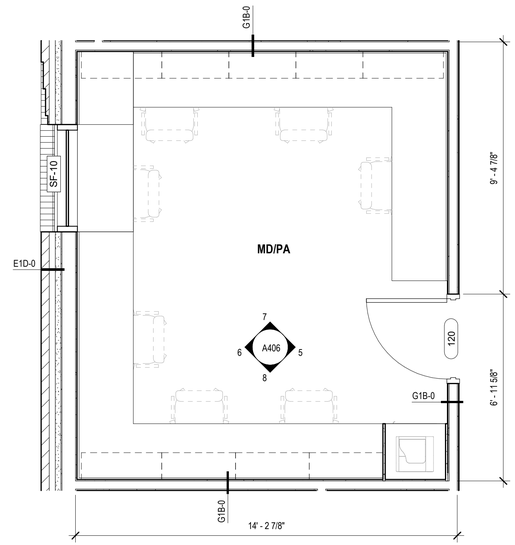
5 A406 **MD/PA EAST**

SCALE: 3/8" = 1'-0" R.E. = 9/A406



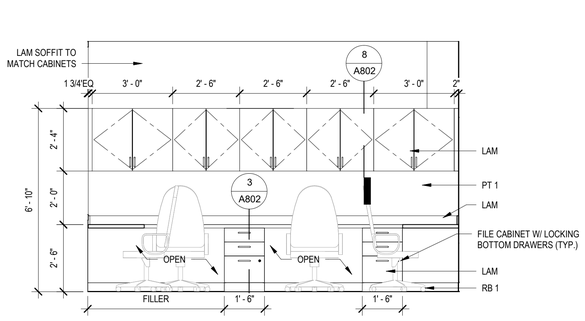
6 A406 **MD/PA WEST**

SCALE: 3/8" = 1'-0" R.E. = 1/A402



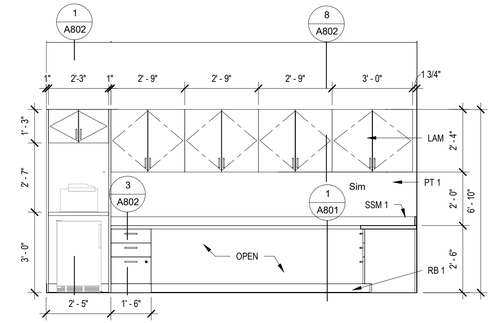
9 A406 **MD/PA ROOM ENLARGED PLAN**

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



7 A406 **MD/PA NORTH**

SCALE: 3/8" = 1'-0" R.E. = 9/A406



8 A406 **MD/PA SOUTH**

SCALE: 3/8" = 1'-0" R.E. = 9/A406

GENERAL NOTES

1. SEE A721 FOR FINISH LEGEND, SCHEDULE, AND CASEWORK LEGEND
2. OFCO ITEM LOCATIONS TO BE COORDINATED WITH OWNER.
3. ACCESSORY MOUNTING HEIGHTS MUST BE IN REACH RANGES SHOWN ON A051
4. REFER TO ACCESSIBILITY DIAGRAM FOR KNEE AND TOE CLEARANCE DIAGRAM.
5. SEE A401 FOR TYPICAL MOUNTING HEIGHTS

ACCESSORIES LEGEND

PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER - BOBRICK B-2620	CFCI
SD	SOAP DISPENSER	OFCI
SB	SHARPS BIN	OFCI
HS	HAND SANITIZER	OFCI
GVB	GLOVE BOX	OFCI
BCS	BABY CHANGING STATION	CFCI
PTC	PASS THROUGH CABINET	CFCI
SSH	SOLAR SHADES - NON MOTORIZED	CFCI
GB-1	42" GRAB BAR - BOBRICK B-6806 CFCI	CFCI
GB-2	36" GRAB BAR - BOBRICK B-6806	CFCI
GB-3	18" GRAB BAR - BOBRICK B-6806	CFCI
TPD	RECESSED TOILET PAPER DISPENSER FOR SINGLE ROLL - BOBRICK B-2740	CFCI
MI	MIRROR - BOBRICK B-165 2436	CFCI
SND	SANI DISPENSER	OFCI
SC	SHARPS CONTAINER	OFCI
GB	GLOVE BOXES	OFCI
OTO	WALL HUNG OTOSCOPES	OFCI

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FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:04-04'00'

Novant Family Medical Clinic - North Wilmington

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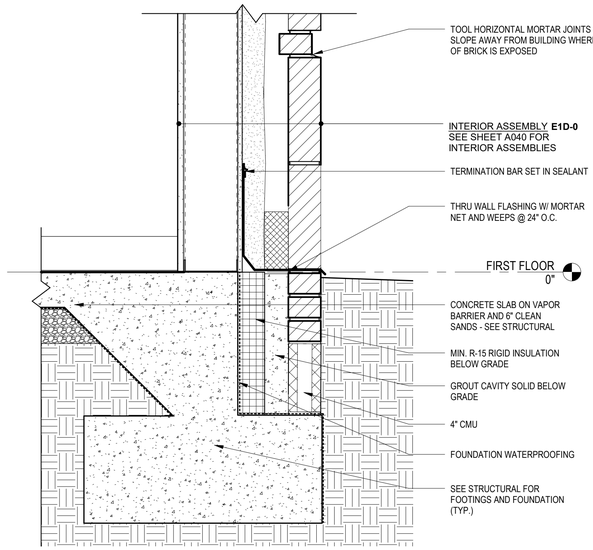
No.	Description	Date

CONSTRUCTION DOCUMENTS

MD/PA ROOM AND BLOOD DRAW

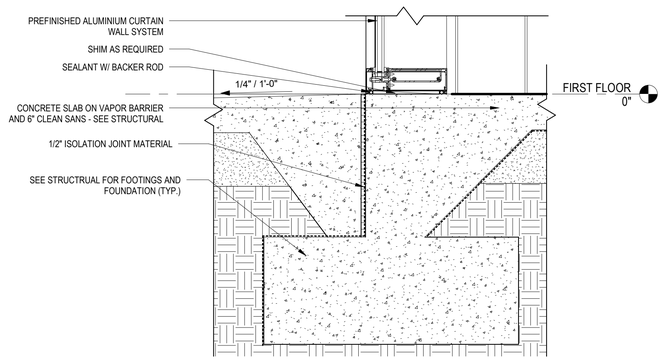
ISSUE DATE 06/14/2023
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SHEET BY AVB
PROJECT NUMBER 21-010

A406



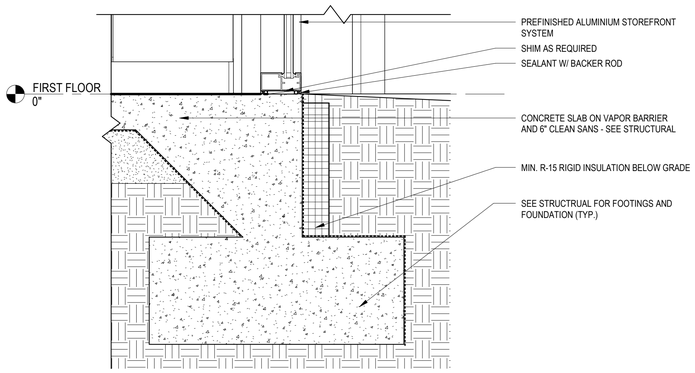
1 A501 **TYPICAL SLAB EDGE DETAIL AT WALL TYPE E1D-0**

SCALE: 1 1/2" = 1'-0" R.E. = 1 / A351



2 A501 **TYPICAL SLAB AT CURTAINWALL /SIDEWALK**

SCALE: 1 1/2" = 1'-0" R.E. = 4 / A352



3 A501 **TYPICAL STOREFRONT SILL DETAIL @ SLAB**

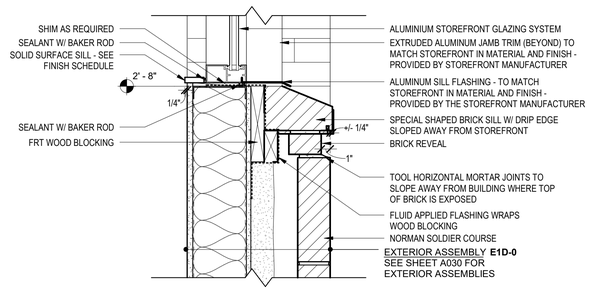
SCALE: 1 1/2" = 1'-0" R.E. = 3 / A351

4 A501 **TYPICAL PARAPET DETAIL**

SCALE: 1 1/2" = 1'-0" R.E. = 1 / A351

5 A501 **BACKSPLASH @ CURTAIN WALL DETAIL**

SCALE: 1 1/2" = 1'-0" R.E. = 3 / A406



6 A501 **TYPICAL STOREFRONT SILL DETAIL**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A353

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Frank A. Little Date: 2023.06.14 17:35:05-04'00'

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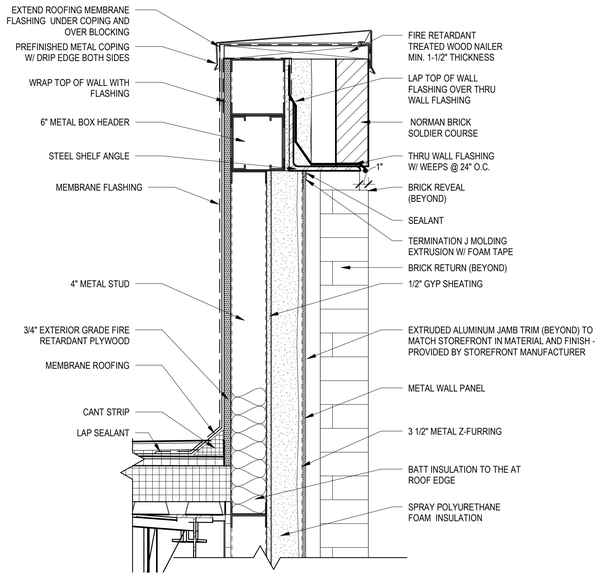
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SECTION DETAILS

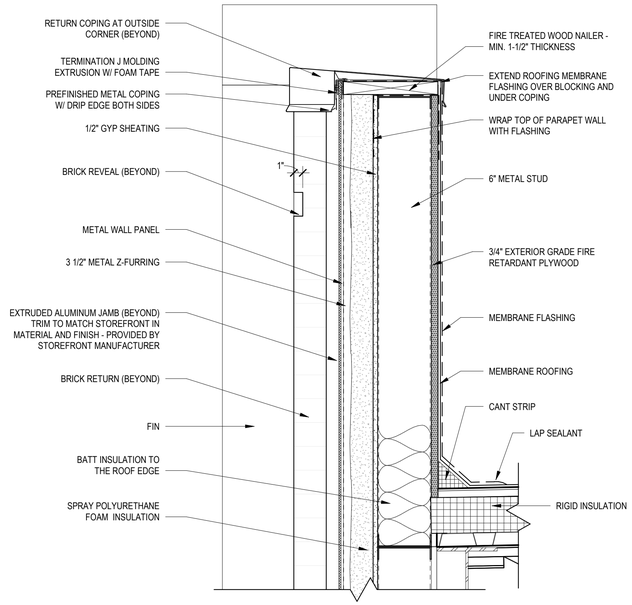
ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

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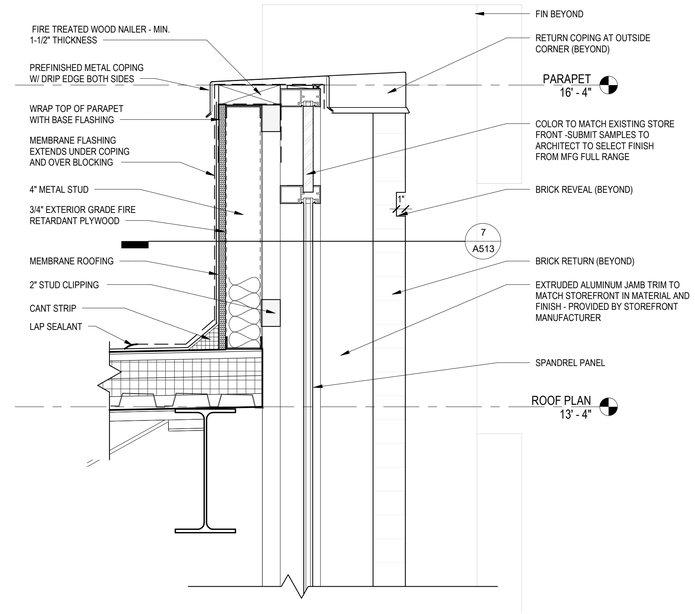
1 A502 **TYPICAL PARAPET DETAIL @ METAL PANEL**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A353



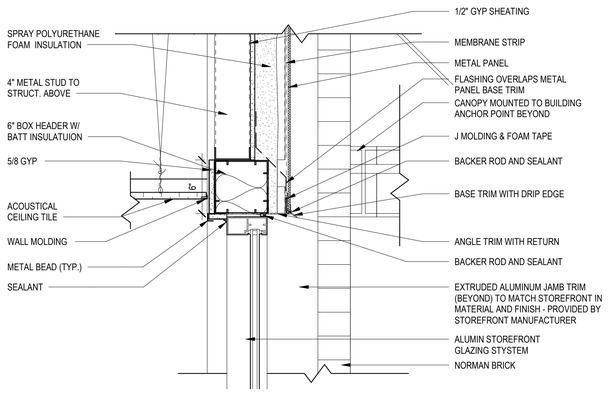
2 A502 **PARAPET DETAIL @ EXAM ROOMS**

SCALE: 1 1/2" = 1'-0" R.E. = 4 / A351



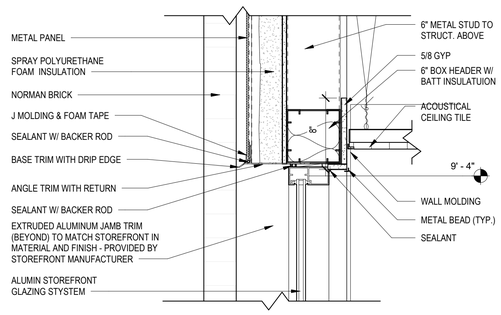
3 A502 **PARAPET DETAIL @CURTAIN WALL**

SCALE: 1 1/2" = 1'-0" R.E. = 3 / A351



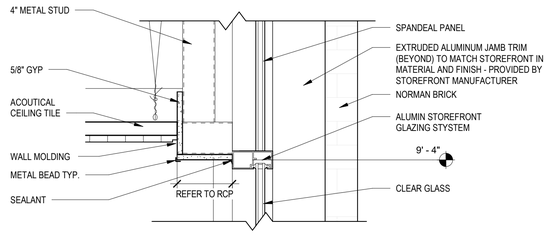
4 A502 **STOREFRONT HEAD DETAIL @METAL PANEL**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A353



5 A502 **STOREFRONT HEAD DETAIL @ EXAM ROOM**

SCALE: 1 1/2" = 1'-0" R.E. = 4 / A351



6 A502 **CURTAIN WALL HEAD DETAIL W/ NO FIN**

SCALE: 1 1/2" = 1'-0" R.E. = 3 / A351

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Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:06-04'00'

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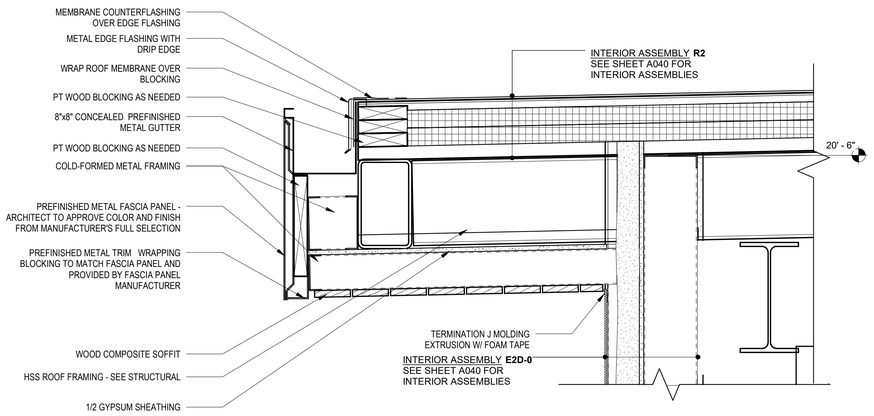
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CONSTRUCTION DOCUMENTS

SECTION DETAILS

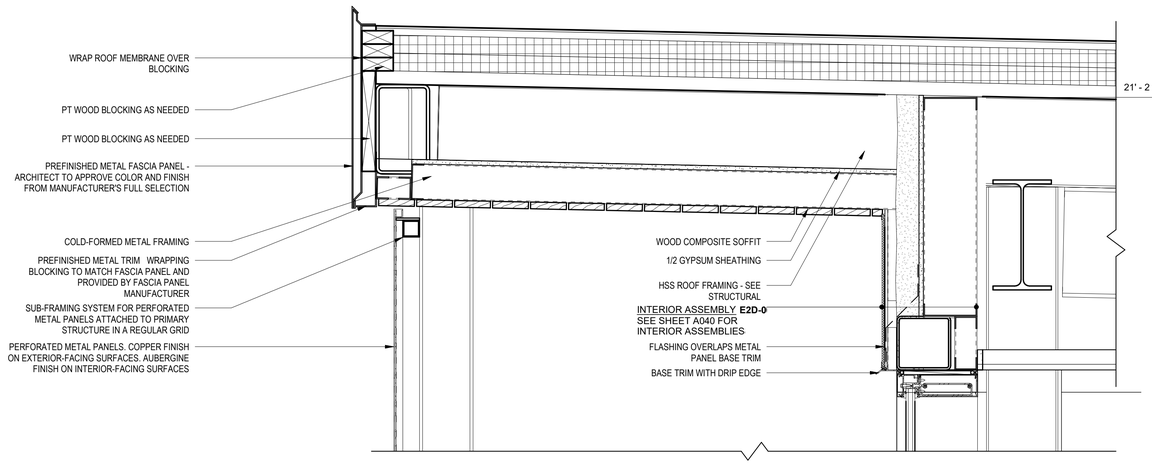
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SHEET BY SAM
PROJECT NUMBER 21-010

A502



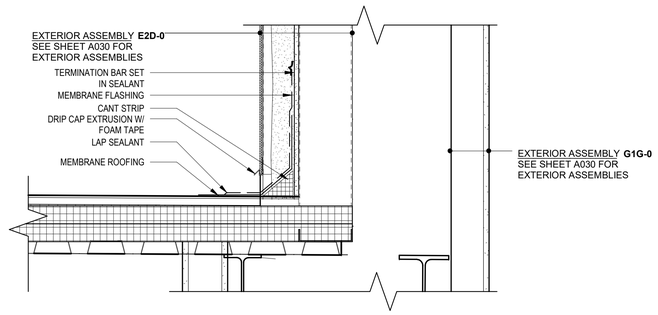
1 A503 **ROOF EDGE DETAIL @ LOBBY - LOW END**

SCALE: 1 1/2" = 1'-0" R.E. = 3 / A353



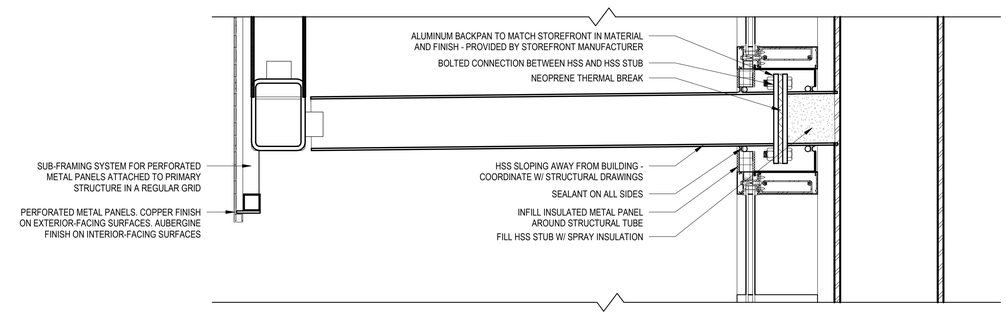
2 A503 **SECTION AT EXTERIOR LOBBY SOFFIT**

SCALE: 1 1/2" = 1'-0" R.E. = 4 / A352



3 A503 **ROOF EDGE DETAIL @ TPO AND METAL PANEL**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A352



4 A503 **SECTION AT PENETRATIONS THROUGH CURTAIN WALL**

SCALE: 1 1/2" = 1'-0" R.E. = 1 / A121

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Date: 2023.06.14 17:35:06-04'00'

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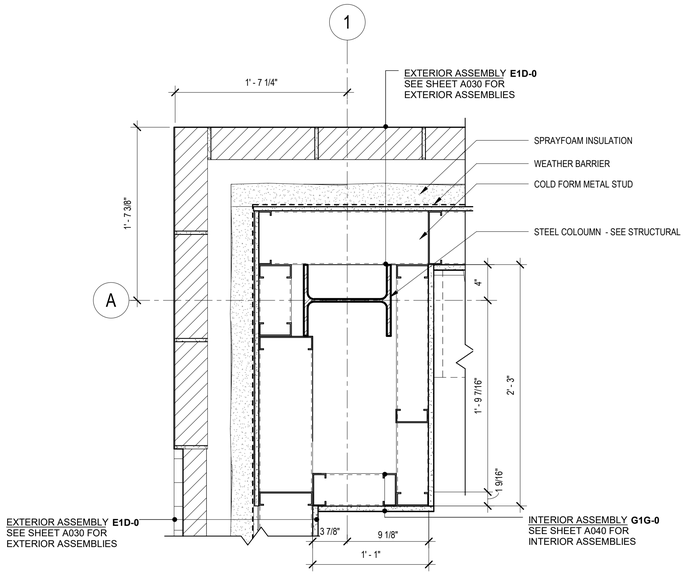
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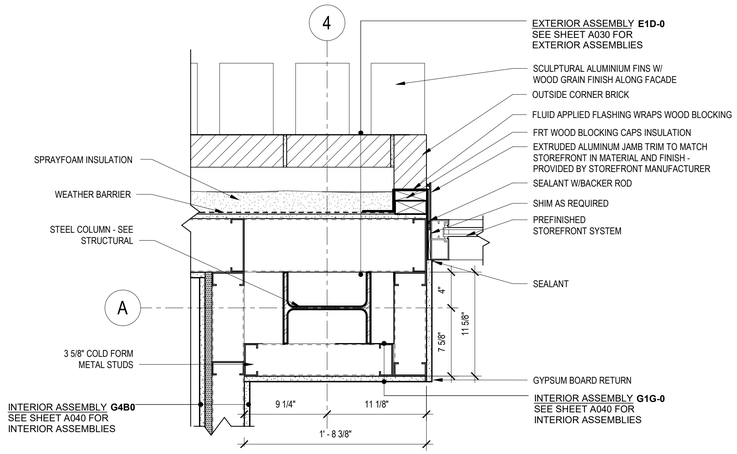
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PROJECT NUMBER 21-010

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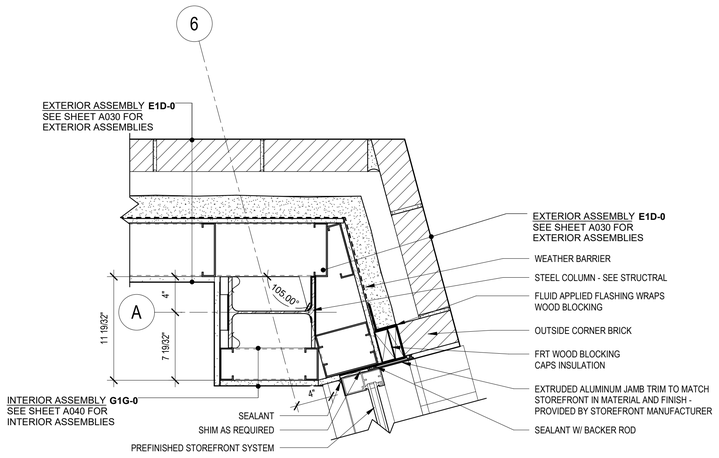
1 A511 **ENLARGED PLAN DETAIL COL. LINE A, 1**

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



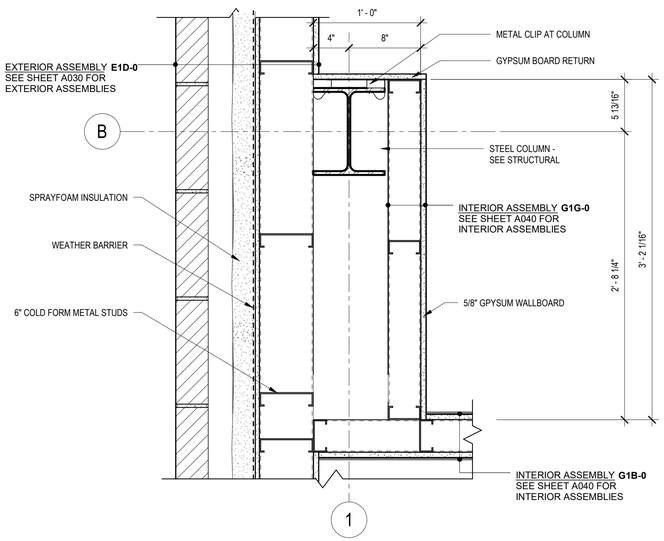
2 A511 **ENLARGED PLAN DETAIL COL. LINE A & 4**

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



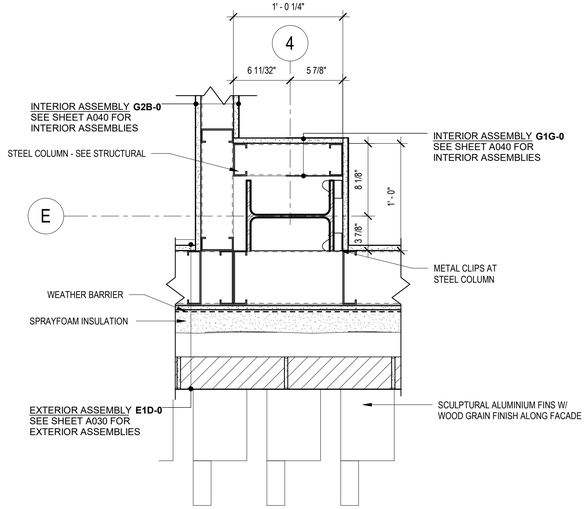
3 A511 **ENLARGED PLAN DETAIL COL. LINE A, 6**

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



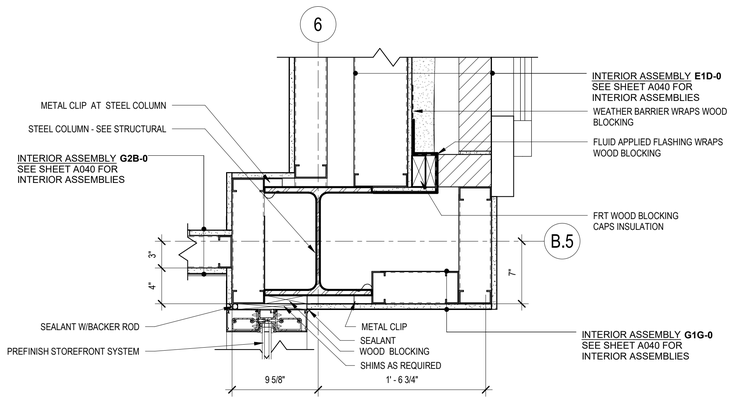
4 A511 **ENLARGED PLAN DETAIL COL. LINE B, 1**

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



5 A511 **ENLARGED PLAN DETAIL COL. LINE E & 4**

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



6 A511 **ENLARGED PLAN DETAIL COL. LINE B.5, 6**

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

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NORTH CAROLINA
CERT. NO.
51098
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FRANK ARNELL LITTLE
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9404
NORTH CAROLINA
MOORESVILLE, NC

Digitally signed
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Frank A. Little Date: 2023.06.14
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28405

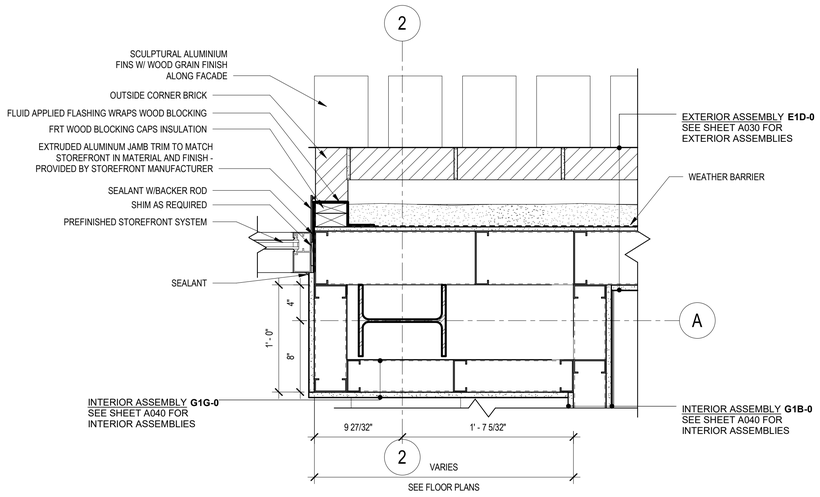
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CONSTRUCTION DOCUMENTS

PLAN DETAILS

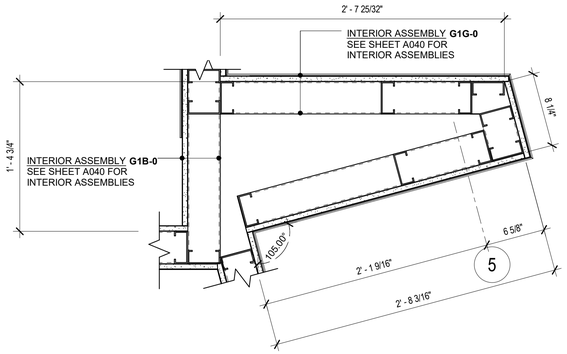
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A511



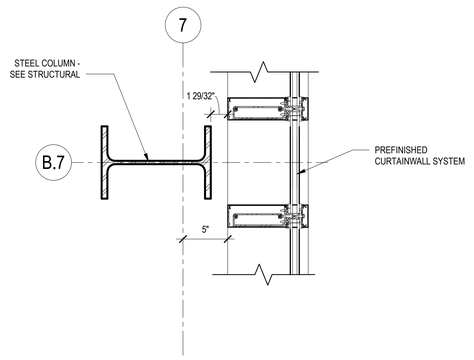
1 A512 **ENLARGED PLAN DETAIL COL. LINE A, 2**

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



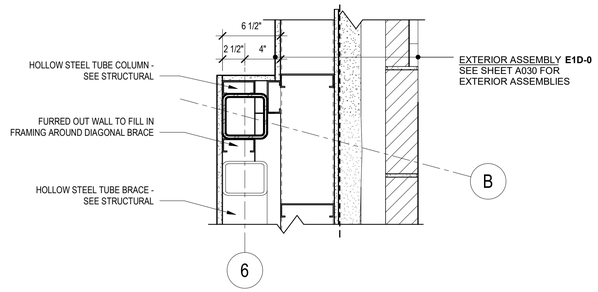
2 A512 **PLAN DETAIL @ COFFEE STATION**

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



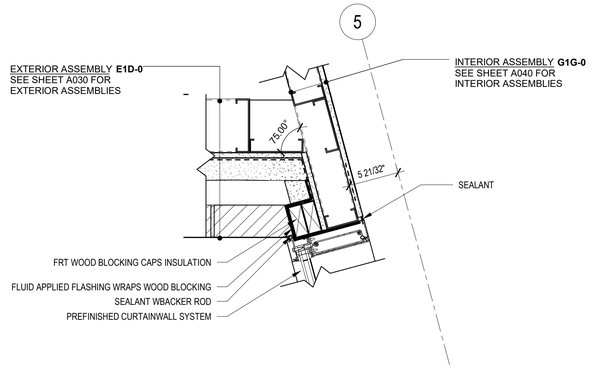
3 A512 **ENLARGED PLAN DETAIL COL. LINE B.7, 7**

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



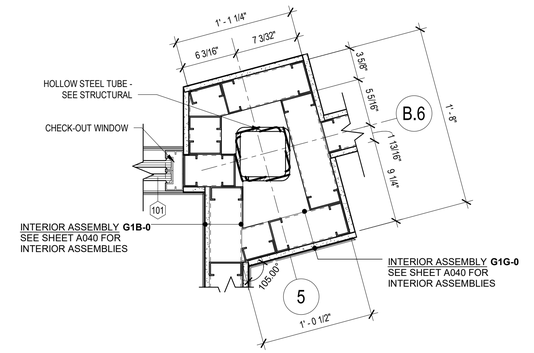
4 A512 **ENLARGED PLAN DETAIL COL. LINE B, 6**

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



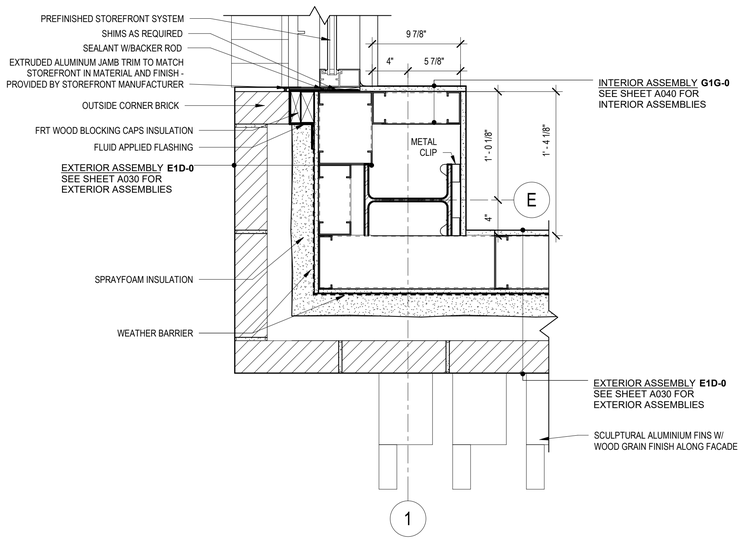
5 A512 **PLAN DETAL @ WALL TYPE E1D-0 AND CURTAIN WALL**

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



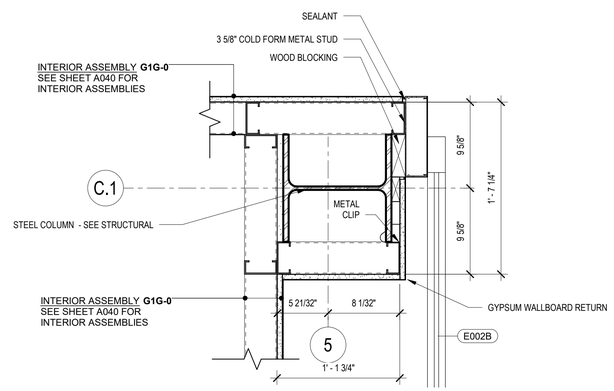
6 A512 **ENLARGED PLAN DETAIL COL. LINE B.6, 5**

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



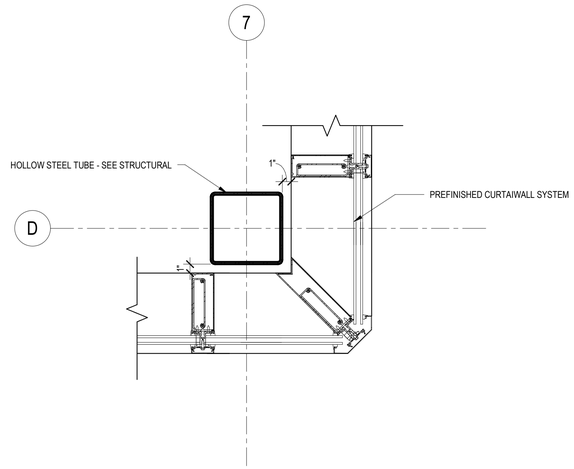
7 A512 **ENLARGED PLAN DETAIL COL. LINE E, 1**

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



8 A512 **ENLARGED PLAN DETAIL COL. LINE C.1, 5**

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



9 A512 **ENLARGED PLAN DETAIL COL. LINE D & 7**

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

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1635 West Trade Street, Suite 1A
Charlotte, North Carolina 28216
T:704.374.0916 F:704.342.3808
www.neighboringconcepts.com

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NEIGHBORING CONCEPTS PLLC — ARCHITECTURE — CERT. NO. 51098 — CHARLOTTE, NC

FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.06.14 17:35:07-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

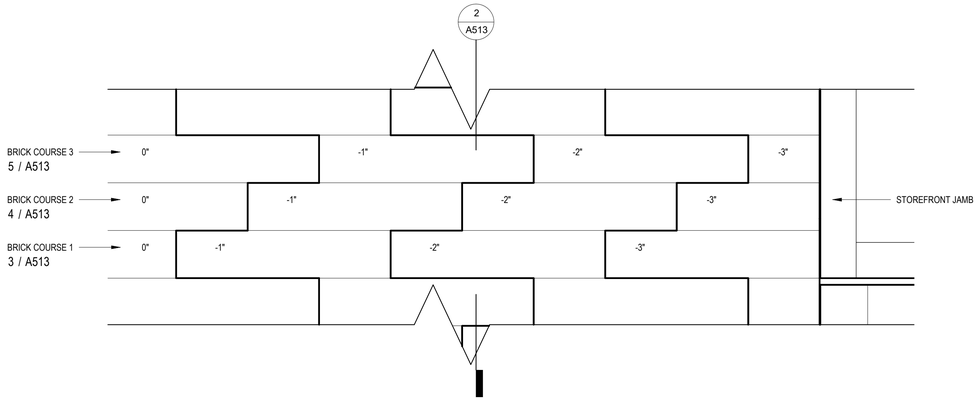
No.	Description	Date

CONSTRUCTION DOCUMENTS

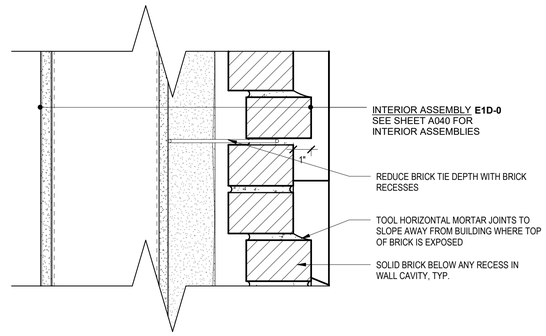
PLAN DETAILS

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A512

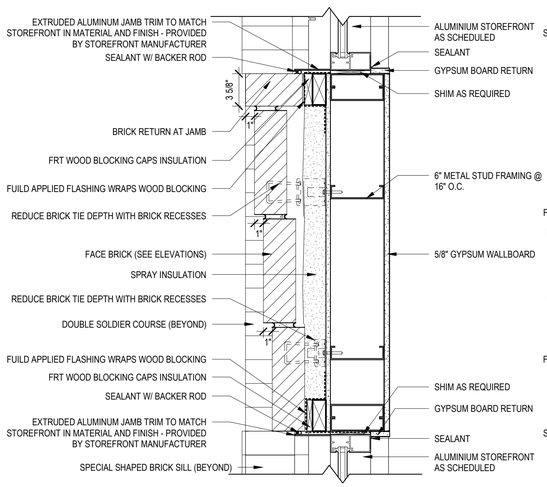


DIMENSIONS SHOWN ARE RELATIVE TO THE TYPICAL FACE OF BRICK WHERE TYPICAL FACE OF BRICK IS 0" AND RECESSES ARE SHOW AS NEGATIVE DIMENSIONS.



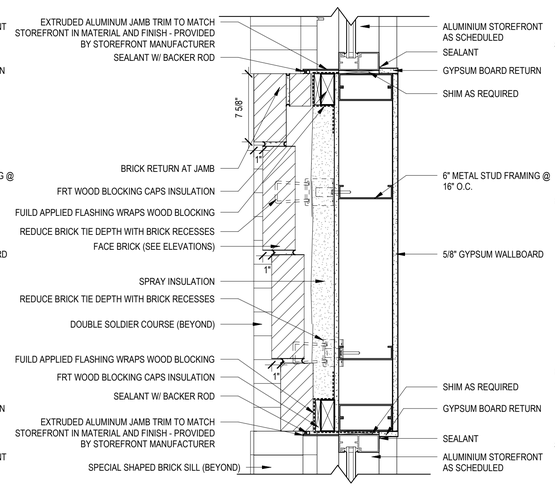
1 A513 STEPPED BRICK RETURN PATTERN

SCALE: 3" = 1'-0" R.E. = 2/A223



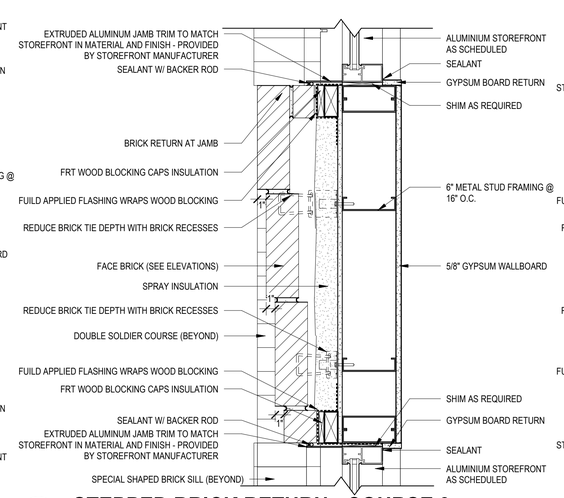
3 A513 STEPPED BRICK RETURN - COURSE 1

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



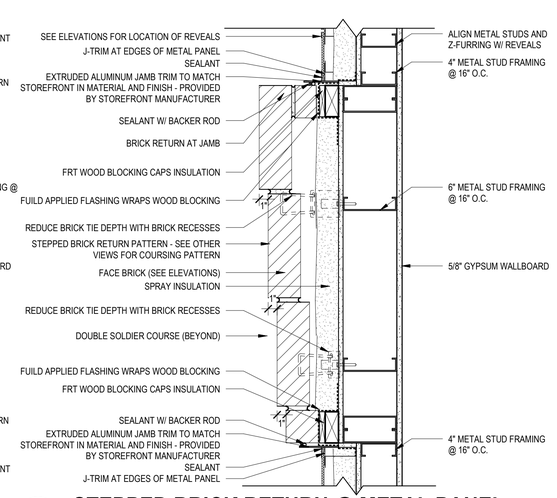
4 A513 STEPPED BRICK RETURN - COURSE 2

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



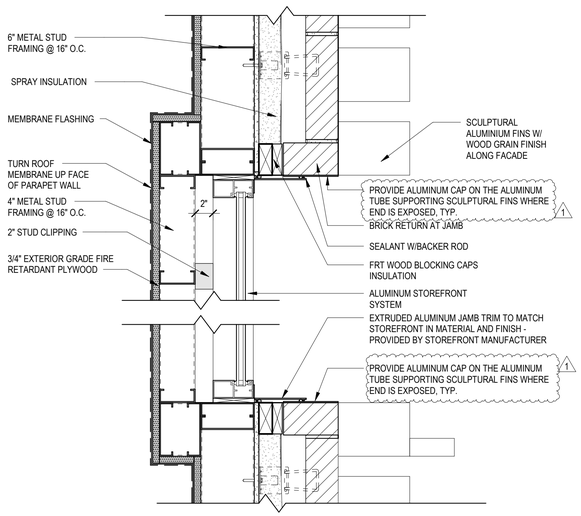
5 A513 STEPPED BRICK RETURN - COURSE 3

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



6 A513 STEPPED BRICK RETURN @ METAL PANEL

SCALE: 1 1/2" = 1'-0" R.E. = 3/A221



7 A513 ENLARGE DETAIL @ PARAPET CURTAIN WALL

SCALE: 1 1/2" = 1'-0" R.E. = 3/A502

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NEIGHBORING CONCEPTS PLLC ARCHITECTURE ENGINEERING CERT. NO. 51098 CHARLOTTE, NC

FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

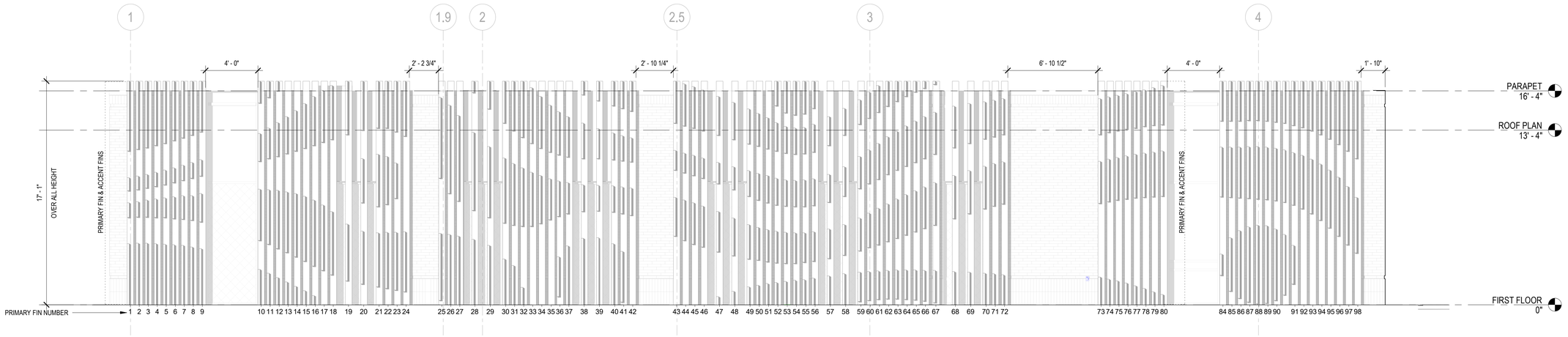
CONSTRUCTION DOCUMENTS

PLAN DETAILS

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY GTB
PROJECT NUMBER 21-010

A513

06/14/2023



1
A521

OVERALL SCULPTURAL FINS ELEVATION

SCALE: 1/4" = 1'-0" R.E. = 1/A111

PRIMARY FIN & ACCENT FINS										
PRIMARY FIN NUMBER	FIN 1 - Start	FIN 1 - End	FIN 2 - Start	FIN 2 - End	FIN 3 - Start	FIN 3 - End	FIN 4 - Start	FIN 4 - End	FIN 5 - Start	FIN 5 - End
1	0"	4' - 8"	6' - 8"	7' - 9 1/2"	8' - 8 1/2"	9' - 8 1/2"	11' - 9"	17' - 1"		
2	0"	4' - 8 1/2"	6' - 8 1/2"	7' - 10 1/2"	8' - 9 1/2"	9' - 10"	11' - 10 1/2"	17' - 1"		
3	0"	4' - 8 1/2"	6' - 8 1/2"	8' - 0"	8' - 11"	9' - 11 1/2"	12' - 0"	17' - 1"		
4	0"	4' - 8"	6' - 8"	8' - 1"	9' - 0 1/2"	10' - 1 1/2"	12' - 2"	17' - 1"		
5	0"	4' - 7 1/2"	6' - 8"	8' - 2"	9' - 2"	10' - 3 1/2"	12' - 4"	17' - 1"		
6	0"	4' - 7"	6' - 7"	8' - 3"	9' - 4"	10' - 5 1/2"	12' - 6 1/2"	17' - 1"		
7	0"	4' - 6 1/2"	6' - 6 1/2"	8' - 4"	9' - 6"	10' - 8"	12' - 9"	17' - 1"		
8	0"	4' - 5"	6' - 5 1/2"	8' - 4"	9' - 8"	10' - 10 1/2"	12' - 11 1/2"	17' - 1"		
9	0"	4' - 3 1/2"	6' - 4"	8' - 6"	9' - 10"	11' - 1"	13' - 2 1/2"	17' - 1"		
10	0"	2' - 8 1/2"	4' - 11"	8' - 10"	10' - 11 1/2"	13' - 1"	15' - 5"	17' - 1"		
11	0"	2' - 5"	4' - 7 1/2"	8' - 9 1/2"	11' - 2"	13' - 6"	15' - 10"	17' - 1"		
12	0"	2' - 1"	4' - 3 1/2"	8' - 9"	11' - 4"	13' - 11"	16' - 4"	17' - 1"		
13	0"	1' - 9"	4' - 0"	8' - 7 1/2"	11' - 6 1/2"	14' - 4 1/2"				
14	0"	1' - 5"	3' - 8"	8' - 6"	11' - 9"	14' - 10"				
15	0"	1' - 1"	3' - 4"	8' - 3 1/2"	11' - 11 1/2"	15' - 4 1/2"				
16	0"	8 1/2"	2' - 11 1/2"	8' - 0"	12' - 2"	15' - 11"				
17	2' - 7 1/2"	7' - 7 1/2"	12' - 5"	16' - 4 1/2"						
18	2' - 3 1/2"	7' - 1 1/2"	12' - 7 1/2"	16' - 9"						
19	1' - 10"	6' - 2"	13' - 0"	17' - 1"						
20	1' - 7"	5' - 7 1/2"	7' - 9 1/2"	11' - 2"	13' - 4"	17' - 1"				
21	1' - 4 1/2"	5' - 6"	7' - 6"	11' - 6"	13' - 6"	17' - 1"				
22	1' - 3"	5' - 6 1/2"	7' - 8"	11' - 4"	13' - 6"	17' - 1"				
23	1' - 1 1/2"	5' - 6 1/2"	8' - 1 1/2"	10' - 10"	13' - 2 1/2"	17' - 1"				
24	1' - 0"	5' - 7"	12' - 10 1/2"	17' - 1"						
25	4"	5' - 5 1/2"	9' - 8"	15' - 10"						
26	0"	5' - 4 1/2"	8' - 6"	15' - 3"						
27	0"	5' - 3"	7' - 11"	14' - 5 1/2"						
28	0"	5' - 0"	7' - 2 1/2"	13' - 2"	16' - 2 1/2"	17' - 1"				
29	0"	4' - 6 1/2"	6' - 8"	12' - 1"	14' - 11 1/2"	17' - 1"				
30	0"	3' - 6"	6' - 3"	11' - 2 1/2"	13' - 10 1/2"	17' - 1"				
31	0"	3' - 0"	6' - 1"	10' - 9 1/2"	13' - 3 1/2"	17' - 1"				
32	0"	1' - 4"	6' - 0"	10' - 5 1/2"	12' - 9 1/2"	17' - 1"				
33	6' - 0"	10' - 1 1/2"	12' - 4"	16' - 7"						
34	6' - 2 1/2"	9' - 10 1/2"	11' - 11 1/2"	15' - 11"						
35	6' - 6"	9' - 7 1/2"	11' - 8"	15' - 3"						
36	7 1/2"	3' - 8"	6' - 9"	9' - 5 1/2"	11' - 5 1/2"	14' - 9"				
37	0"	4' - 6"	6' - 11 1/2"	9' - 4"	11' - 3 1/2"	14' - 4 1/2"				
38	0"	5' - 1"	7' - 1 1/2"	9' - 2"	11' - 2"	13' - 10 1/2"	16' - 0 1/2"	17' - 1"		
39	0"	5' - 1 1/2"	7' - 2"	9' - 1 1/2"	11' - 2"	13' - 5 1/2"	15' - 7"	17' - 1"		
40	0"	4' - 8"	7' - 1"	9' - 1"	11' - 1"	13' - 1 1/2"	15' - 2 1/2"	17' - 1"		
41	2 1/2"	4' - 1"	6' - 11 1/2"	9' - 0"	11' - 0"	12' - 11"	15' - 0"	17' - 1"		
42	6' - 10"	8' - 11"	10' - 11"	12' - 9"	14' - 9 1/2"	17' - 1"				
43	5' - 3"	8' - 2 1/2"	10' - 3 1/2"	11' - 9 1/2"	13' - 10 1/2"	17' - 1"				
44	4' - 11"	8' - 0"	10' - 1"	11' - 7"	13' - 8"	16' - 10 1/2"				
45	4' - 7 1/2"	7' - 9 1/2"	9' - 10 1/2"	11' - 5"	13' - 6"	16' - 8"				
46	4' - 5"	7' - 6 1/2"	9' - 8"	11' - 2 1/2"	13' - 3 1/2"	16' - 5"				
47	0"	7 1/2"	4' - 0 1/2"	7' - 1 1/2"	9' - 3"	10' - 10 1/2"	12' - 11 1/2"	15' - 11"		

PRIMARY FIN & ACCENT FINS										
PRIMARY FIN NUMBER	FIN 1 - Start	FIN 1 - End	FIN 2 - Start	FIN 2 - End	FIN 3 - Start	FIN 3 - End	FIN 4 - Start	FIN 4 - End	FIN 5 - Start	FIN 5 - End
48	0"	1' - 0 1/2"	3' - 9"	6' - 7 1/2"	8' - 9 1/2"	10' - 6 1/2"	12' - 7 1/2"	15' - 5 1/2"		
49	0"	1' - 4 1/2"	3' - 6"	6' - 1 1/2"	8' - 3 1/2"	10' - 3"	12' - 3 1/2"	14' - 11 1/2"		
50	0"	1' - 6"	3' - 5"	5' - 11"	8' - 0"	10' - 0 1/2"	12' - 1 1/2"	14' - 7 1/2"		
51	0"	1' - 7 1/2"	3' - 3 1/2"	5' - 9"	7' - 9 1/2"	9' - 10 1/2"	11' - 11"	14' - 3 1/2"		
52	0"	1' - 8 1/2"	3' - 2 1/2"	5' - 7 1/2"	7' - 7 1/2"	9' - 8"	11' - 9"	13' - 11"	15' - 2 1/2"	17' - 1"
53	0"	1' - 9 1/2"	3' - 2"	5' - 6 1/2"	7' - 6 1/2"	9' - 6 1/2"	11' - 7"	13' - 7 1/2"	14' - 8"	17' - 1"
54	0"	1' - 10 1/2"	3' - 2"	5' - 6"	7' - 6"	9' - 6"	11' - 6"	13' - 6"	14' - 6"	17' - 1"
55	0"	1' - 11"	3' - 3"	5' - 6"	7' - 6"	9' - 6 1/2"	11' - 6 1/2"	13' - 6 1/2"	14' - 7"	17' - 1"
56	0"	2' - 0 1/2"	3' - 4"	5' - 7"	7' - 7"	9' - 7 1/2"	11' - 8"	13' - 9 1/2"	15' - 0"	17' - 1"
57	0"	2' - 2 1/2"	3' - 6 1/2"	5' - 9 1/2"	7' - 10"	9' - 11 1/2"	12' - 2"	14' - 4 1/2"		
58	0"	2' - 4 1/2"	3' - 9 1/2"	6' - 1 1/2"	8' - 3 1/2"	10' - 6 1/2"	12' - 11 1/2"	15' - 0"		
59	3"	2' - 6"	4' - 1 1/2"	6' - 7 1/2"	8' - 10 1/2"	11' - 4"	13' - 9 1/2"	15' - 8"		
60	4"	2' - 6 1/2"	4' - 4 1/2"	7' - 0"	9' - 3"	11' - 10"	14' - 3"	16' - 3"		
61	5"	2' - 7"	4' - 7"	7' - 4 1/2"	9' - 7"	12' - 4"	14' - 8 1/2"	16' - 9"		
62	5 1/2"	2' - 7 1/2"	4' - 10"	7' - 8 1/2"	9' - 11 1/2"	12' - 10"	15' - 2"	17' - 1"		
63	5 1/2"	2' - 8"	5' - 1"	8' - 1"	10' - 3 1/2"	13' - 3"	15' - 6 1/2"	17' - 1"		
64	5"	2' - 8"	5' - 4"	8' - 5"	10' - 7"	13' - 8"	15' - 11"	17' - 1"		
65	4 1/2"	2' - 8"	5' - 7"	8' - 8 1/2"	10' - 10 1/2"	14' - 0 1/2"	16' - 3"	17' - 1"		
66	3 1/2"	2' - 7 1/2"	5' - 10"	9' - 0"	11' - 2"	14' - 4 1/2"	16' - 6 1/2"	17' - 1"		
67	2"	2' - 7 1/2"	6' - 1"	9' - 4"	11' - 6"	14' - 8 1/2"	16' - 10"	17' - 1"		
68	0"	2' - 6 1/2"	6' - 7"	9' - 10 1/2"	12' - 0"	15' - 2"				
69	0"	2' - 6"	6' - 11 1/2"	10' - 3"	12' - 4"	15' - 4 1/2"				
70	0"	2' - 5"	7' - 4"	10' - 7"	12' - 8"	15' - 6"				
71	0"	2' - 4 1/2"	7' - 6 1/2"	10' - 9 1/2"	12' - 10"	15' - 7 1/2"				
72	0"	2' - 3 1/2"	7' - 8 1/2"	10' - 11"	13' - 0"	15' - 9"				
73	0"	2' - 1 1/2"	7' - 9"	10' - 11 1/2"	13' - 0"	15' - 9"				
74	0"	1' - 11 1/2"	7' - 10 1/2"	11' - 1 1/2"	13' - 2"	15' - 10 1/2"				
75	0"	1' - 10"	8' - 0"	11' - 3"	13' - 3 1/2"	16' - 0"				
76	0"	1' - 8"	8' - 1"	11' - 4 1/2"	13' - 5"	16' - 1 1/2"				
77	0"	1' - 5 1/2"	8' - 2"	11' - 6"	13' - 6"	16' - 3 1/2"				
78	0"	1' - 3"	8' - 2 1/2"	11' - 7"	13' - 7 1/2"	16' - 5"				
79	0"	1' - 0"	8' - 3"	11' - 8"	13' - 8 1/2"	16' - 7"				
80	0"	9 1/2"	8' - 3 1/2"	11' - 9"	13' - 9"	16' - 9"				
84	2' - 3"	3' - 10 1/2"	8' - 3"	12' - 0 1/2"	14' - 0 1/2"	17' - 1"				
85	1' - 0 1/2"	5' - 1 1/2"	8' - 2 1/2"	12' - 0 1/2"	14' - 0 1/2"	17' - 1"				
86	6"	5' - 8"	8' - 2"	12' - 0 1/2"	14' - 0 1/2"	17' - 1"				
87	2 1/2"	5' - 11 1/2"	8' - 1 1/2"	12' - 1"	14' - 1"	17' - 1"				
88	1"	6' - 1"	8' - 1"	12' - 1"	14' - 1"	17' - 1"				
89	1 1/2"	6' - 0 1/2"	8' - 0 1/2"	12' - 0 1/2"	14' - 0 1/2"	17' - 1"				
90	4"	5' - 9 1/2"	7' - 11 1/2"	11' - 11 1/2"	13' - 11 1/2"	17' - 1"				
91	1' - 7"	4' - 6 1/2"	7' - 7 1/2"	11' - 7 1/2"	13' - 8 1/2"	17' - 1"				
92	7' - 4"	11' - 5"	13' - 6 1/2"	17' - 1"						
93	6' - 11 1/2"	11' - 1 1/2"	13' - 3 1/2"	17' - 1"						
94	6' - 5 1/2"	10' - 9"	13' - 0"	17' - 1"						
95	5' - 10 1/2"	10' - 3 1/2"	12' - 8"	17' - 1"						
96	5' - 3"	9' - 9"	12' - 3"	17' - 1"						
97	4' - 7"	9' - 0 1/2"	11' - 9"	17' - 1"						
98	3' - 11 1/2"	8' - 2 1/2"	11' - 2"	17' - 1"						

neighboring concepts

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:08-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

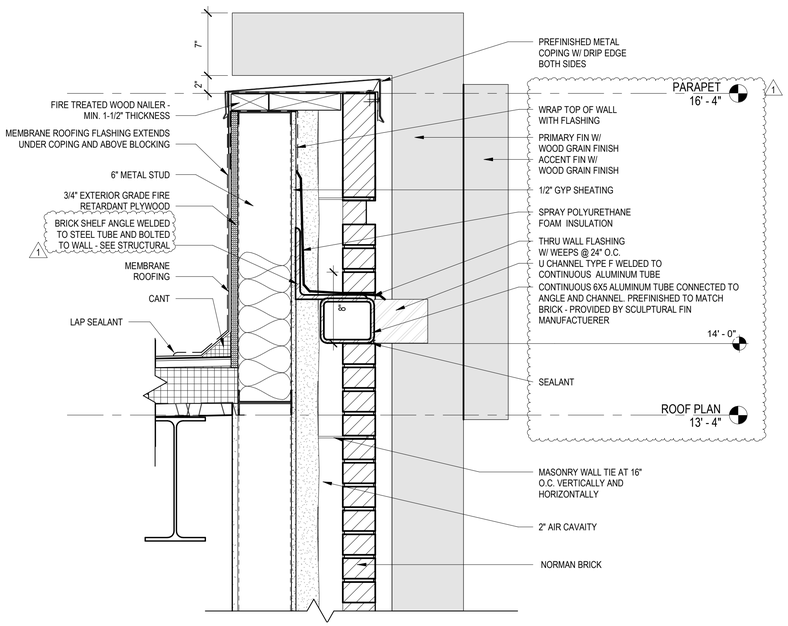
No.	Description	Date

CONSTRUCTION DOCUMENTS

SCULPTURAL FINS DETAILS

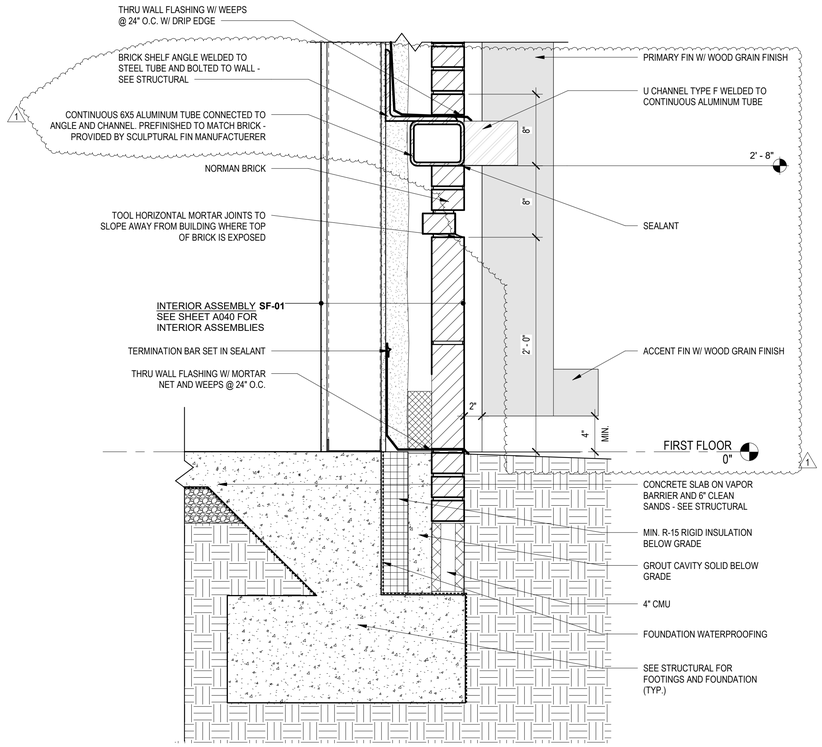
ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY SAM
PROJECT NUMBER 21-010

A521



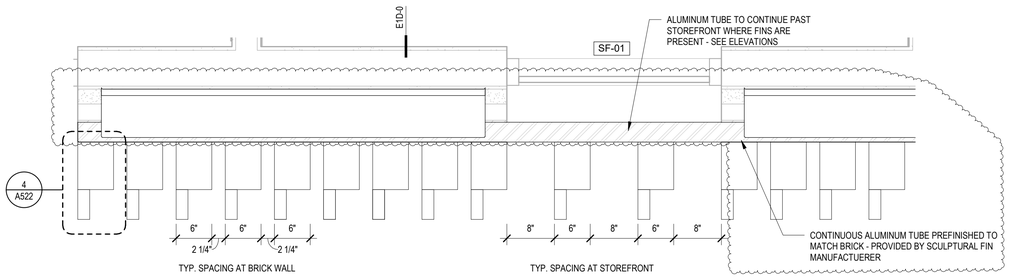
1 A522 **TYPICAL PARAPET DETAIL @ ALUMINUM FIN**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A351



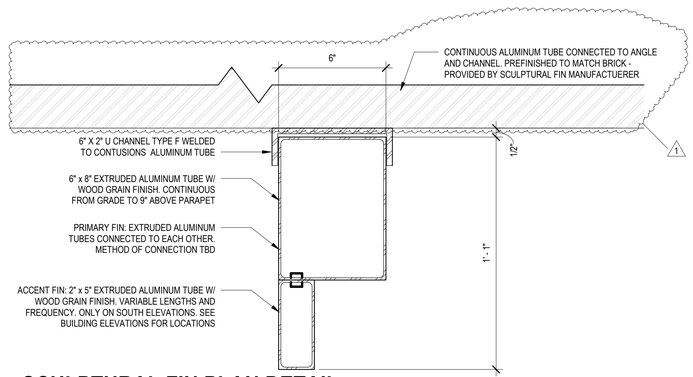
2 A522 **TYPICAL ALUMINUM FIN DETAIL@ BASE**

SCALE: 1 1/2" = 1'-0" R.E. = 2 / A351



3 A522 **WOOD SLATS PLAN DETAILS**

NOT TO SCALE



4 A522 **SCULPTURAL FIN PLAN DETAIL**

SCALE: 3" = 1'-0" R.E. = 3 / A522

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NEIGHBORING CONCEPTS PLLC ARCHITECTURE CERT. NO. 51098 CHARLOTTE, NC

FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

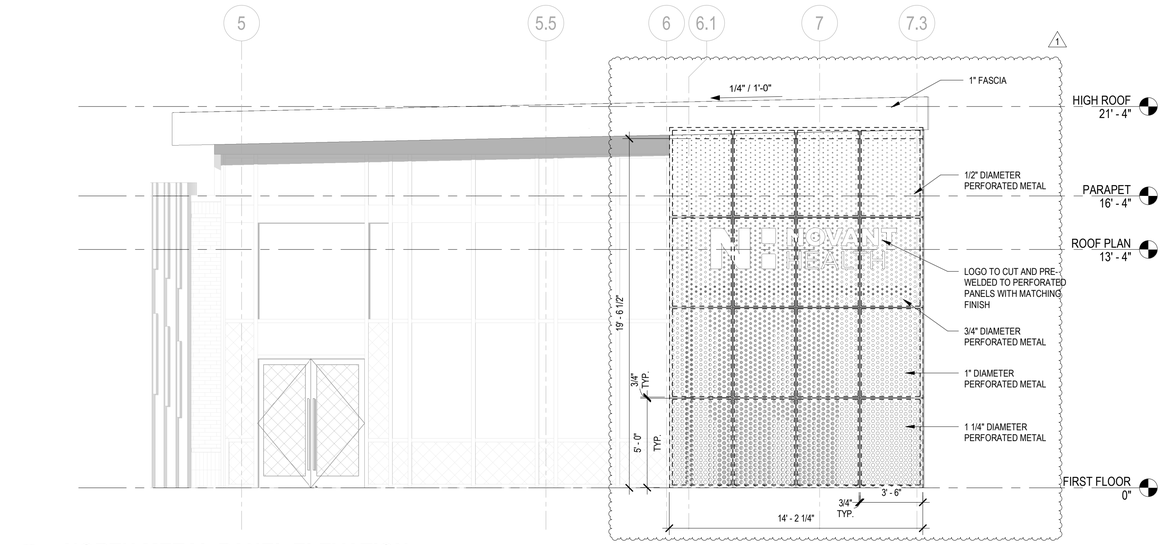
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

SCULPTURAL FINS DETAILS

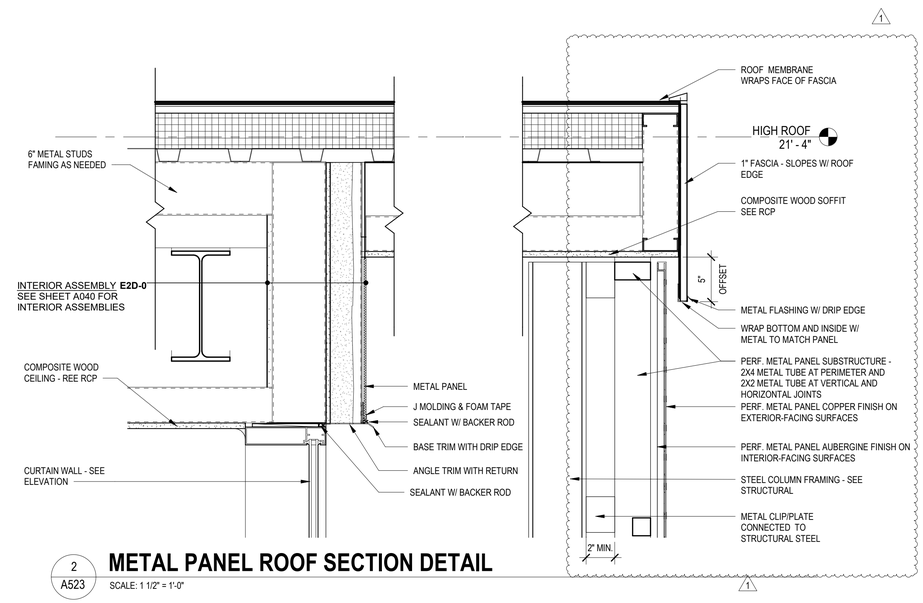
ISSUE DATE 05/26/2023
CHECKED Checker
SHEET BY Author
PROJECT NUMBER 21-010

A522



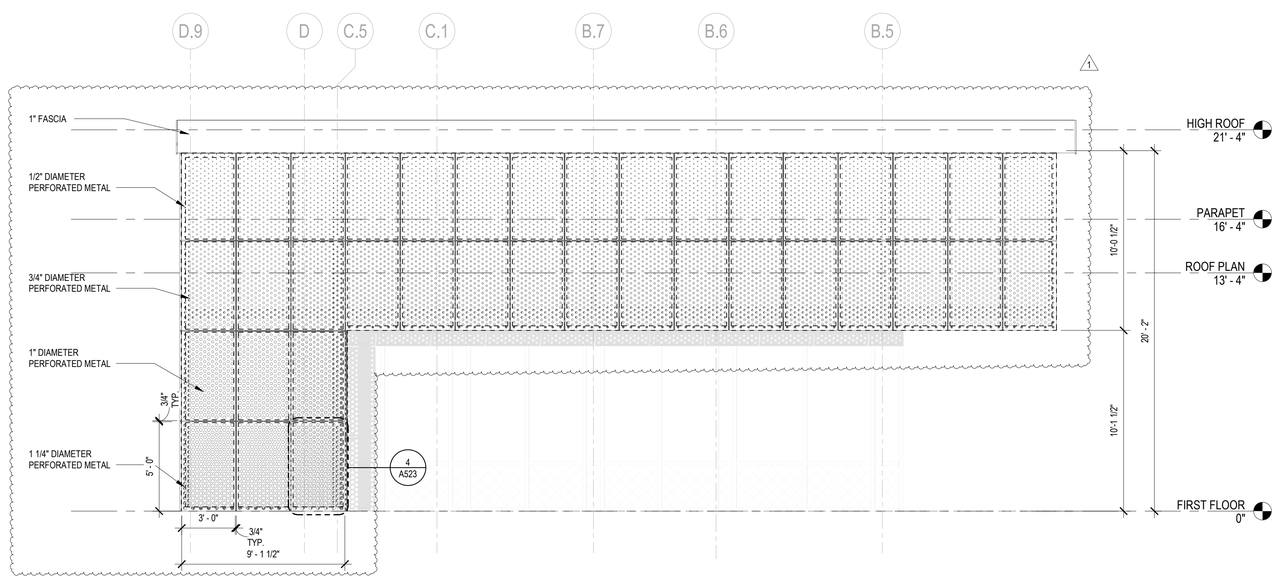
1 A523 **NORTH METAL PANEL ELEVATION**

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



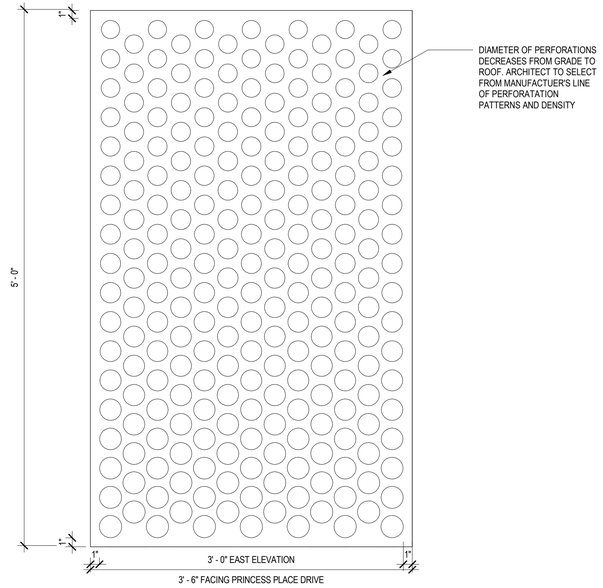
2 A523 **METAL PANEL ROOF SECTION DETAIL**

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



3 A523 **EAST METAL PANEL ELEVATION**

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



4 A523 **TYPICAL ELEVATION OF METAL PANEL**

SCALE: 1 1/2" = 1'-0" R.E. = 3/A523

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CERT. NO. 51098
CHARLOTTE, NC

FRANK ARNELL LITTLE
REGISTERED ARCHITECT
9404
NORTH CAROLINA
MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

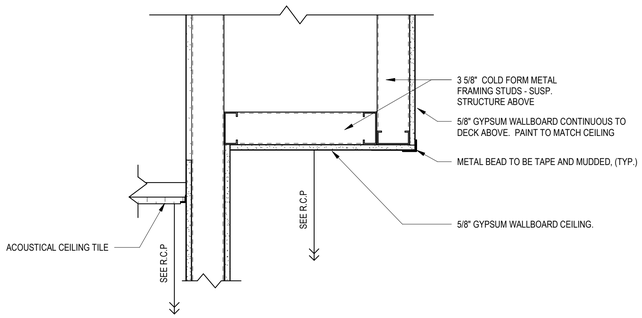
No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

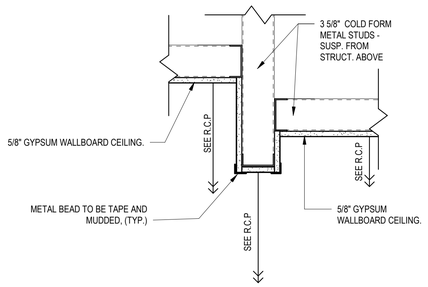
METAL PANEL SCREEN DETAILS

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY SAM
PROJECT NUMBER 21-010

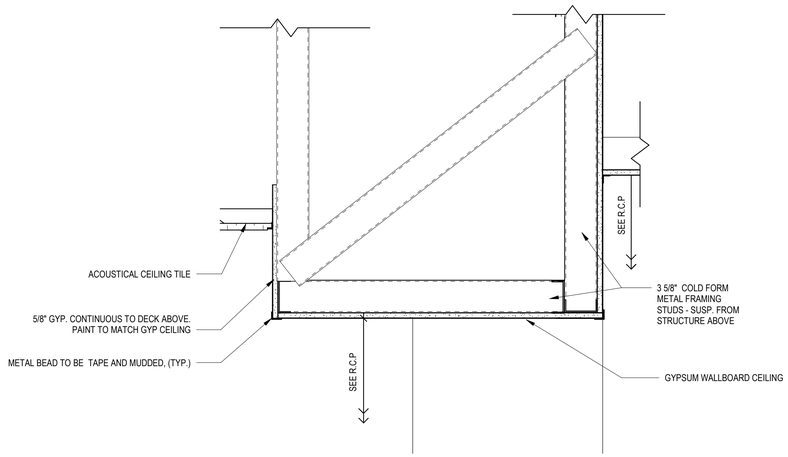
A523



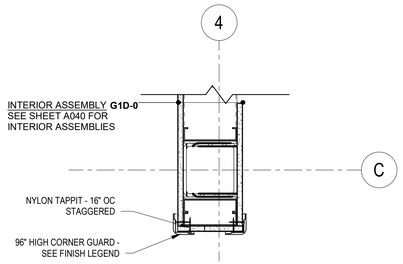
1 A524 **BULK HEAD DETAIL AT DOOR 101B**
SCALE: 1 1/2" = 1'-0"



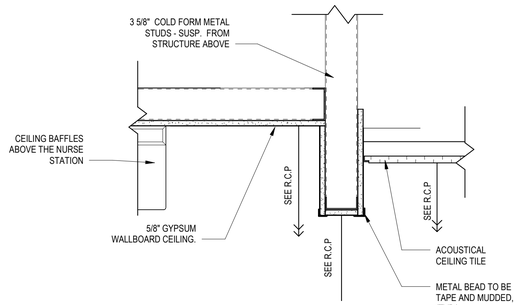
2 A524 **BULK HEAD AT NURSE STATION**
SCALE: 1 1/2" = 1'-0"



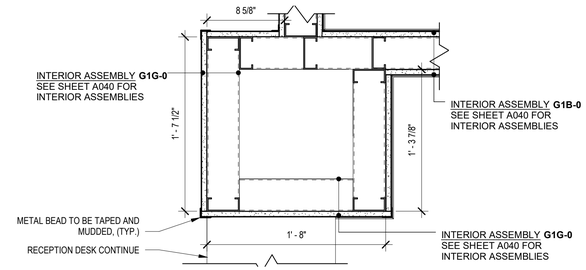
3 A524 **SOFFIT DETAIL AT RECEPTION**
SCALE: 1 1/2" = 1'-0"



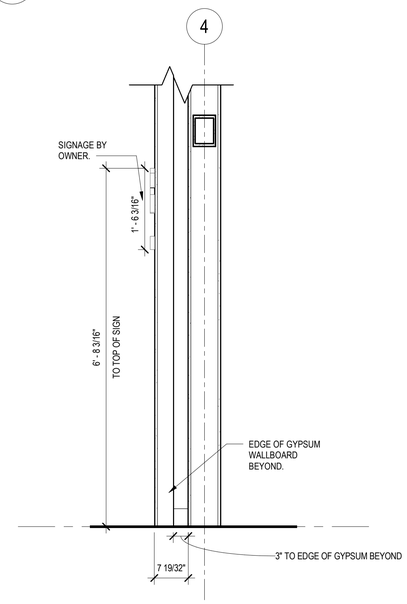
8 A524 **WALL END CAP AT CHECK-OUT**
SCALE: 1 1/2" = 1'-0"



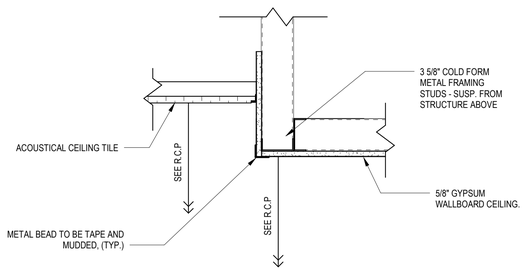
5 A524 **BULK HEAD ABOVE THE NURSE STATION**
SCALE: 1 1/2" = 1'-0"



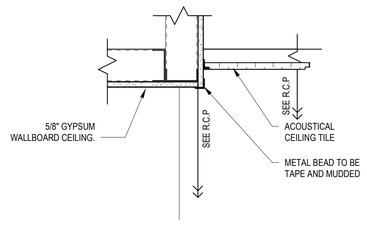
7 A524 **ENLARGED FURRED WALL AT RECEPTION DESK**
SCALE: 1 1/2" = 1'-0" R.E. = 1/A403



4 A524 **BRANDING WALL-SECTION**
SCALE: 3/4" = 1'-0"



6 A524 **SOFFIT DETAILS ABOVE VITALS**
SCALE: 1 1/2" = 1'-0"



9 A524 **SOFFIT DETAIL ABOVE CABINETS**
SCALE: 1 1/2" = 1'-0"

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:10-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

INTERIOR DETAILS

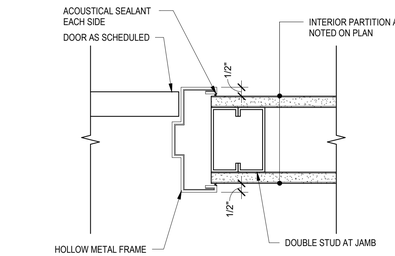
ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A524

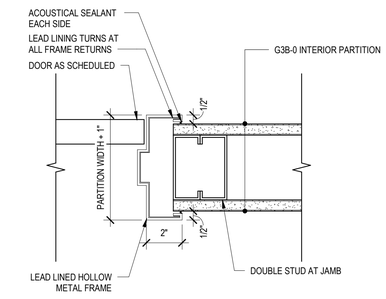
DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FIRE RATING	LOCKSET TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD	COMMENTS
101A	N	3' - 6"	7' - 0"	1 3/4"	WD			19	F1	HM				CARD READER, CLOSER, FREE EGRESS, NARROW LIGHT
101B	N	3' - 6"	7' - 0"	1 3/4"	WD			19	F1	HM				CARD READER, CLOSER, FREE EGRESS, NARROW LIGHT
101C	F	3' - 6"	7' - 0"	1 3/4"	WD			9	F1	HM				
102A	F	3' - 0"	7' - 0"	1 3/4"	WD			14.1	F1	HM				
103	F	3' - 0"	7' - 0"	1 3/4"	WD			10	F1	HM				
104	F	3' - 0"	7' - 0"	1 3/4"	WD			12	F1	HM				
105	F	3' - 0"	7' - 0"	1 3/4"	WD			12	F1	HM				
106	F	3' - 0"	7' - 0"	1 3/4"	WD			10	F1	HM				
107	F	3' - 0"	7' - 0"	1 3/4"	WD			17	F1	HM				
108	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
109	F	3' - 0"	7' - 0"	1 3/4"	WD			15	F1	HM				
110	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
111	F	3' - 0"	7' - 0"	1 3/4"	WD			8	F1	HM				
112	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
113	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
114	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
115	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
116	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
117	F	3' - 0"	7' - 0"	1 3/4"	WD			8	F1	HM				
118	F	3' - 0"	7' - 0"	1 3/4"	WD			4.1	F1	HM				
119	F	3' - 0"	7' - 0"	1 3/4"	WD			14.1	F1	HM				CIPHER LOCK
120	F	3' - 0"	7' - 0"	1 3/4"	WD			11	F1	HM				
121	F	3' - 0"	7' - 0"	1 3/4"	WD			8	F1	HM				
122A	F	3' - 0"	7' - 0"	1 3/4"	WD			4.2						
122B	F	3' - 0"	7' - 0"	1 3/4"	WD			14.2	F1	HM				
122C	F	3' - 0"	7' - 0"	1 3/4"	WD			14.2	F1	HM				
123	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
124	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
125B	F	3' - 0"	7' - 0"	1 3/4"	WD			14.1	F1	HM				
125C	S	3' - 0"	7' - 0"	1 3/4"	WD			20	F1	HM				SLIDING DOOR
126	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
127	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
128	F	3' - 0"	7' - 0"	1 3/4"	WD			5	F1	HM				
129	F	3' - 0"	7' - 0"	1 3/4"	WD			8	F1	HM				
130	F	3' - 6"	7' - 0"	1 3/4"	WD			6	F1	HM				
131A	F	3' - 6"	7' - 0"	1 3/4"	WD			7	F1	HM				
133	F	3' - 6"	7' - 0"	1 3/4"	WD			9	F1	HM				
E001A	FG	6' - 0"	7' - 2 3/4"		AL/GL			1.1			CLEAR ANODIZED			
E001B	FG	6' - 0"	7' - 2 3/4"		AL/GL			1.2			CLEAR ANODIZED			
E002A	FG	6' - 0"	7' - 2 3/4"		AL/GL			1.1			CLEAR ANODIZED			
E002B	FG	6' - 0"	7' - 2 3/4"		AL/GL			1.2						
E003	F	3' - 0"	7' - 0"	1 3/4"	HM			2	F1	HM				PANIC HARDWARE, CARD READER
E004	F	3' - 6"	7' - 0"	1 3/4"	HM			3	F1	HM				PANIC HARDWARE, CARD READER

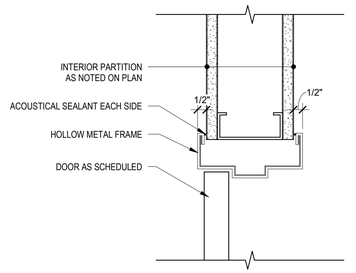
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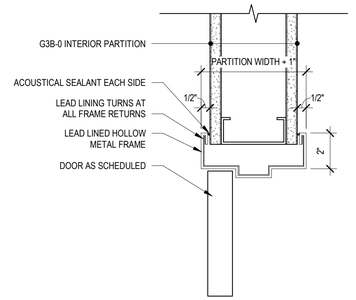
1 A601 **INTERIOR JAMB DETAILS**
SCALE: 3" = 1'-0"



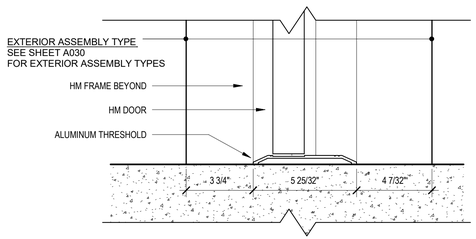
2 A601 **INTERIOR JAMB - LEAD LINED**
SCALE: 3" = 1'-0"



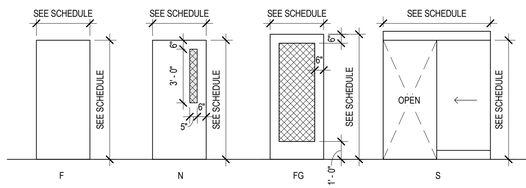
3 A601 **INTERIOR HEAD DETAILS**
SCALE: 3" = 1'-0"



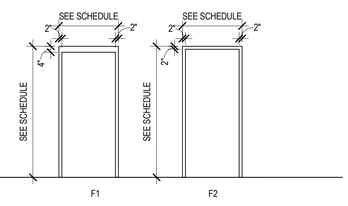
4 A601 **INTERIOR HEAD - LEAD LINED**
SCALE: 3" = 1'-0"



5 A601 **HM DOOR SILL DETAIL**
SCALE: 3" = 1'-0" R.E. = /



DOOR TYPE ELEVATIONS_MJ



DOOR FRAME ELEVATIONS

GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL
- SPANDREL GLASS

NOTES:
1. GLASS WITHIN 24" RADIUS OF A DOOR TO BE TEMPERED.
2. GLASS WITHIN DOOR TO BE TEMPERED.
3. ALL GLAZING IN CURTAIN WALL AND STOREFRONT TO BE 1" INSULATED.
4. ALL DOOR GLAZING TO BE 1" INSULATED .
5. ALL EXTERIOR GLAZING SHALL MATCH MAXIMUM U-VALUE FACTORS AND SHGC AS INDICATED IN THERMAL ENVELOPE ON SHEET A001.

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NEIGHBORING CONCEPTS PLLC ARCHITECTURE INTERIOR DESIGN CERT. NO. 51098 CHARLOTTE, NC

FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, NC

Digitally signed by Frank A. Little
Date: 2023.08.16 18:16:02-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

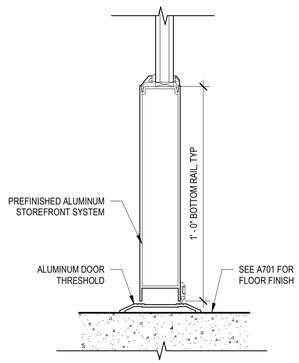
DOOR SCHEDULE AND DETAILS

ISSUE DATE 05/26/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A601

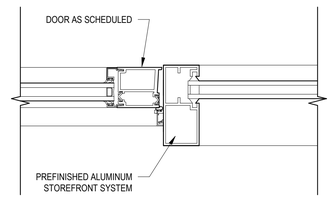
WINDOW SCHEDULE														
TYPE MARK	R.O. WIDTH	R.O. HEIGHT	WINDOW TYPE	MANUFACTURER / REP.	MODEL NO.	MATERIAL	FINISH	HEAD	JAMB	SILL	GLAZING THICKNESS	GLAZING TYPE	HEAD HEIGHT	COMMENTS
101	4' - 0"	4' - 6"	Interior_Sliding_Aluminum_Transaction_Window_17731										7' - 6"	
101	4' - 0"	4' - 6"	Interior_Sliding_Aluminum_Transaction_Window_17731										7' - 6"	

1



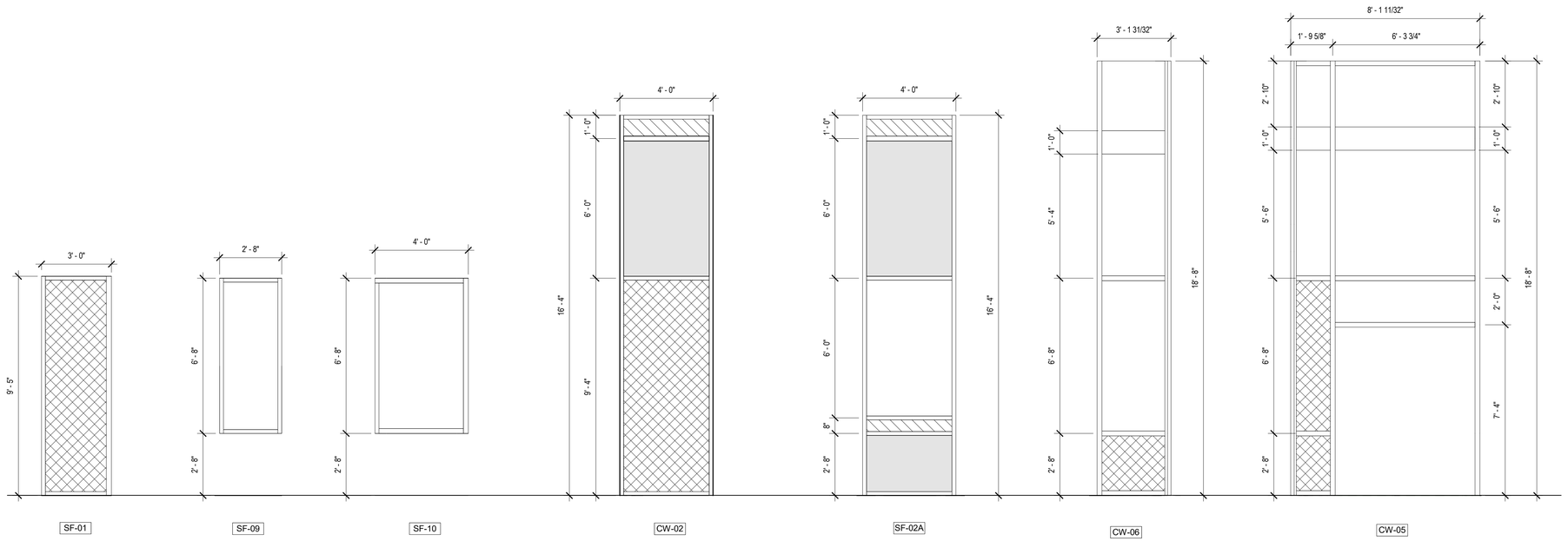
6 A621 **TYPICAL STOREFRONT DOOR SILL DETAIL**

3" = 1'-0"



5 A621 **TYPICAL STOREFRONT DOOR JAMB/HEAD DETAIL - SF**

SCALE: 3" = 1'-0"



GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL
- SPANDREL GLASS

NOTES:
1. GLASS WITHIN 24" RADIUS OF A DOOR TO BE TEMPERED.
2. GLASS WITHIN DOOR TO BE TEMPERED.
3. ALL GLAZING IN CURTAIN WALL AND STOREFRONT TO BE 1" INSULATED.
4. ALL DOOR GLAZING TO BE 1" INSULATED .
5. ALL EXTERIOR GLAZING SHALL MATCH MAXIMUM U-VALUE FACTORS AND SHGC AS INDICATED IN THERMAL ENVELOPE ON SHEET A001.

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FRANK ARNELL LITTLE · REGISTERED ARCHITECT · 9404 · NORTH CAROLINA · MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.08.16 18:16:02-04'00'

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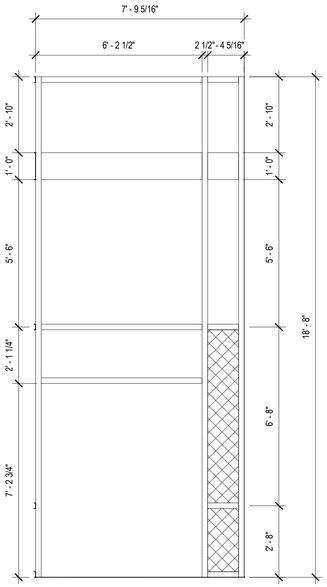
CONSTRUCTION DOCUMENTS

STOREFRONT ELEVATIONS & DETAILS

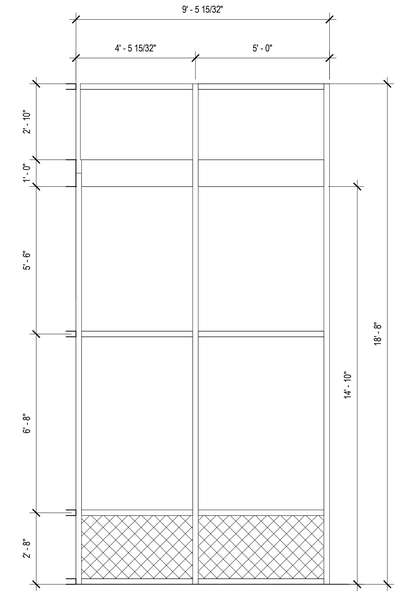
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PROJECT NUMBER 21-010

A621

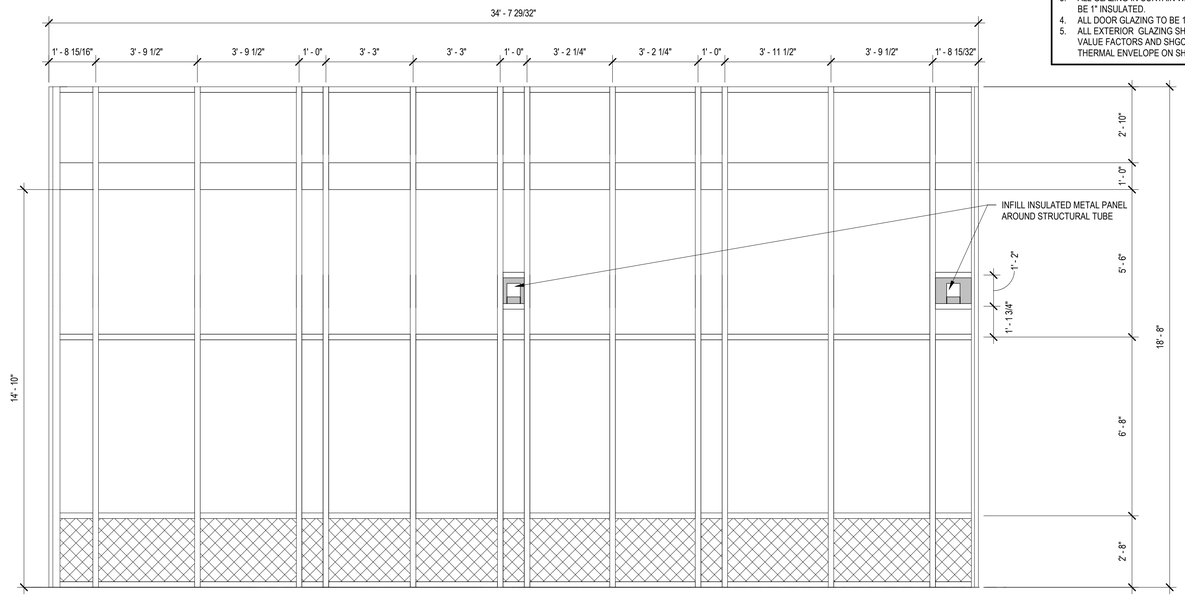
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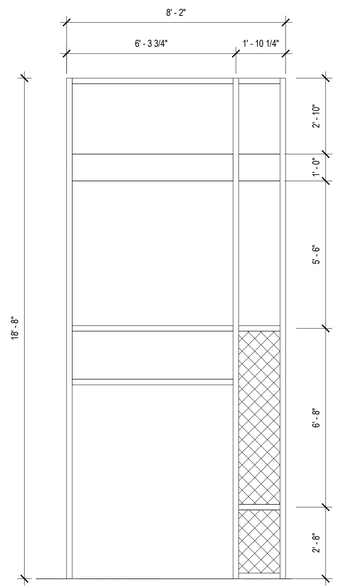
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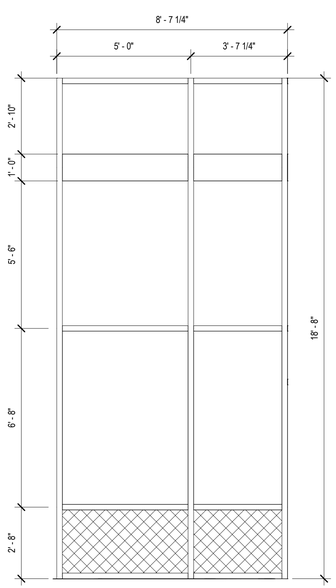
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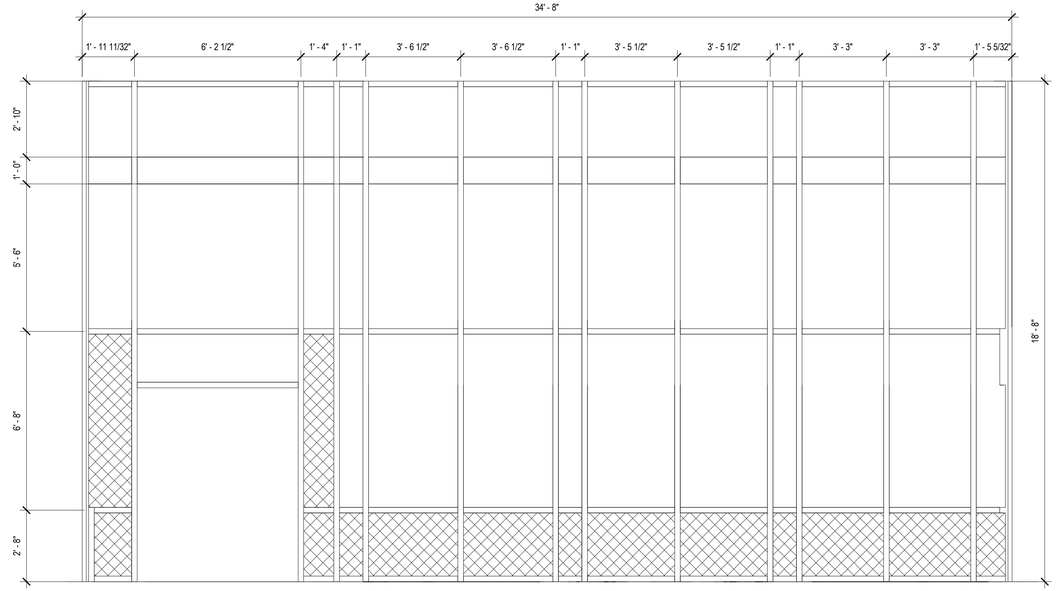
CW-03



CW-04A



CW-04B



CW-04

GLAZING LEGEND

- CLEAR GLASS
- TEMPERED GLASS
- INSULATED METAL PANEL
- SPANDREL GLASS

NOTES:
1. GLASS WITHIN 24" RADIUS OF A DOOR TO BE TEMPERED.
2. GLASS WITHIN DOOR TO BE TEMPERED.
3. ALL GLAZING IN CURTAIN WALL AND STOREFRONT TO BE 1" INSULATED.
4. ALL DOOR GLAZING TO BE 1" INSULATED .
5. ALL EXTERIOR GLAZING SHALL MATCH MAXIMUM U-VALUE FACTORS AND SHGC AS INDICATED IN THERMAL ENVELOPE ON SHEET A001.

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FRANK ARNELL LITTLE — REGISTERED ARCHITECT — 9404 — NORTH CAROLINA — MOORESVILLE, NC

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:12-04'00'

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

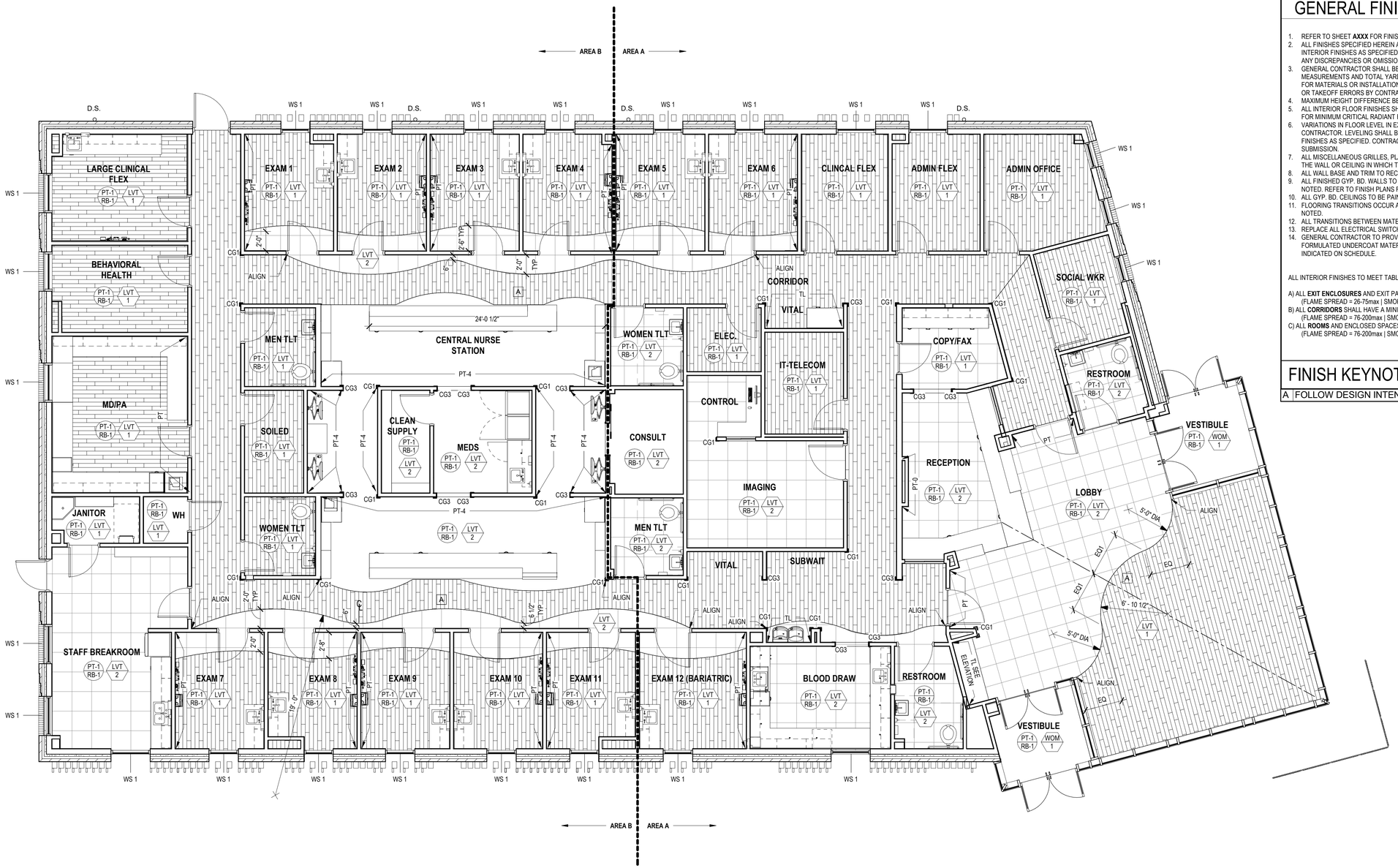
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CONSTRUCTION DOCUMENTS

STOREFRONT ELEVATIONS & DETAILS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

A622



1 A701 **FINISH FLOOR PLAN**

SCALE: 3/16" = 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	FOLLOW DESIGN INTENT FOR CURVED FLOORING PATTERN

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No.	Description	Date

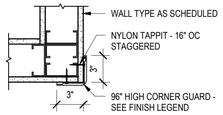
CONSTRUCTION DOCUMENTS

FIRST FLOOR FINISH PLAN

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

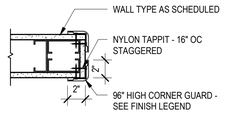
A701

FINISH LEGEND						
FINISH CODE	MANUFACTURER	TYPE/PATTERN	COLOR / FINISH	SIZE	REMARKS	PRODUCT REP
FLOOR						
LVT 1	PATCRAFT	RESILIENT LVT/PLANK	CROSSOVER LOOSE LAY SMOKEY TAUPE	7"X48"		
LVT 2	PATCRAFT	RESILIENT LVT	MOLTEN ALABASTER- V2 00100	23.62" X 23.62"		
WOM 1	MANNINGTON	FRIXTION WALK OFF MAT	FORCE/STATIC 34365	18"X36"		
BASE						
RB 1	TARKETT JOHNSONITE	TRADITIONAL	29 MOON ROCK	4" H CONT ROLL		
WALL						
PT 0	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	AUBERGINE PANTONE C-269 CUSTOM SW FORMULA		BRANDING WALL COLOR	
PT 1	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	PEARLY WHITE 7009			
PT 2	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	BROCOFLOWER 9039		GENERAL	
PT 3	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	LA LUNA AMARILLA 9016			
PT 4	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	RAGING SEA 6474			
PT-5	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	BONSAI TINT 6436			
PT-6	SHERWIN WILLIAMS	LOW VOC, SCRUBBABLE, EGGSHELL	COLOR TO MATCH TARKETT MOON ROCK		DOOR, TRIM, AND ACCENT PAINT. DOOR AND TRIM PAINT TO BE IN SEMIGLOSS FINISH	
TL-1	DALTILE	MESMERIST	MYSTIQUE MM35	3"X12"	COFFEE BAR, VITALS NOOK	
TL-2	DALTILE	MESMERIST	ALLURE MM33	3"X12"	COFFEE BAR, VITALS NOOK	
TL-3	DALTILE	MESMERIST	SPIRIT MM30	3"X12"	COFFEE BAR, VITALS NOOK	
CEILING						
ACT 1	ARMSTRONG	ULTIMA 1911	WHITE	24" x 24" x 3/4"	15/16" CEILING GRID	
BAF 1	TURF	STRAIGHT	WOOD LOOK TBD	LARGE	INSTALL PER MANUFACTURER'S INSTRUCTIONS 12" O.C. DIRECT ON GYP CLG WITH EMBEDDED PANEL CLIP	MARY KELLER COSTA 704- 280-6299
PT-7	SHERWIN WILLIAMS	FLAT	PURE WHITE SW 7005		GYP CEILING PAINT	
WDC-1	ARMSTRONG	METALWORKS LINEAR CLASSIC INTERIOR	TBD	4" X 96"	UNPERFORATED	
MILLWORK						
LAM 1	WILSONART	LAMINATE	BUKA BARK 7982-38		VERTICAL SURFACES	
LAM 2	WILSONART	LAMINATE	ALABASTER D431-60		COFFEE BAR AND TALL MILLWORK AT NURSE STATIONS	
SSM 1	CORIAN	SOLID SURFACE	MODERN WHITE		COFFEE BAR, EXAM ROOMS	
SSM 2	CORIAN	SOLID SURFACE	SAGEBRUSH		RECEPTION DESK AND NURSE STATION COUNTER	
MISC						
CG 1	C/S ACROVYN	SM SERIES 3" SURFACE MOUNT CG		VARIES	CORNER GUARDS WALL PROTECTION	
CG 3	C/S ACROVYN	SM SERIES 2" SURFACE MOUNT CG		VARIES	CORNER GUARDS WALL PROTECTION	
WD	ALGOMA HARDWOODS, INC	WHITE BIRCH / VENEER CUT: SLICED	STAIN TO MATCH OFFICES TO GO AMERICAN ESPRESSO	VARIES	INTERIOR DOOR FINISH	
WS 1	SWF CONTRACT	MANUAL CROSSHATCH S SERIES 3% OPENNESS	SHADE FABRIC: C8204 FOG, FASCIA FABRIC: 875 CLEAR ANODIZED	VARIES	GENERAL	



1 A721 **CORNER GUARD 1**

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



2 A721 **CORNER GUARD 3**

SCALE: 1 1/2" = 1'-0" R.E. = 1/A403

FINISH ABBREVIATIONS	
ACT	ACOUSTICAL CEILING TILE
CG	CORNER GUARD
EC	EXPOSED CONCRETE
EXIST	EXISTING
EXP	EXPOSED
GYP	GYPSUM BOARD
LAM	PLASTIC LAMINATE
LVT	LUXURY VINYL TILE
PT	PAINT
RB	RUBBER COVE BASE
S	WINDOW SHADE
SSM	SOLID SURFACE MATERIAL
WOM	WALK OFF MAT
WPC	WOOD PLANK CEILING

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Digitally signed by Frank A. Little
Frank A. Little Date: 2023.08.16 18:16:02-04'00'

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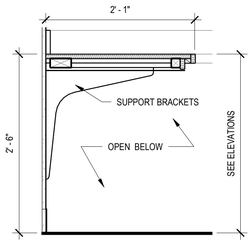
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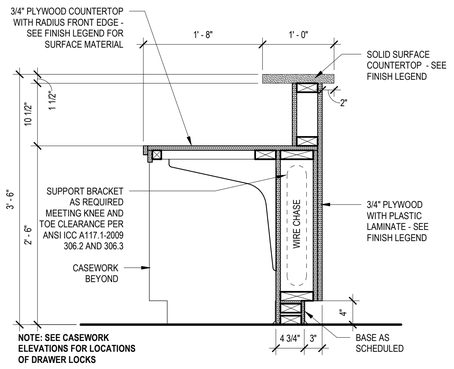
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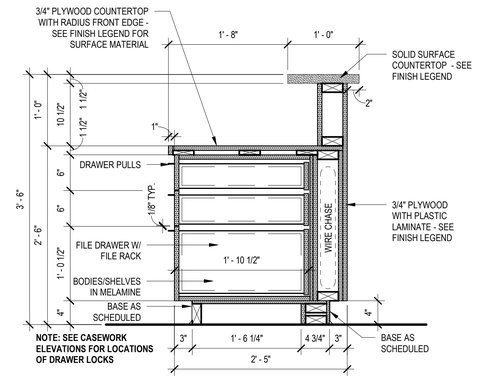
1 A801 **MD/PA WORK DESK**

SCALE: 1" = 1'-0" R.E. = 8 / A406



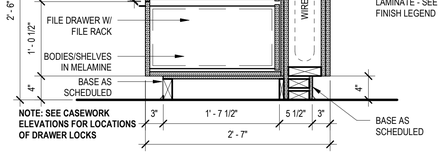
2 A801 **NURSE STATION SECTION**

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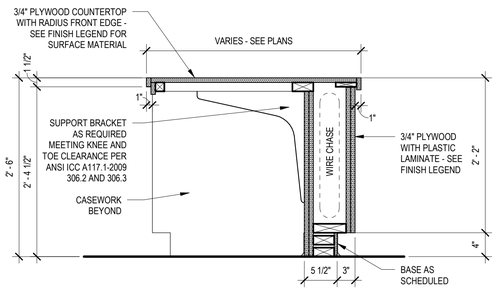
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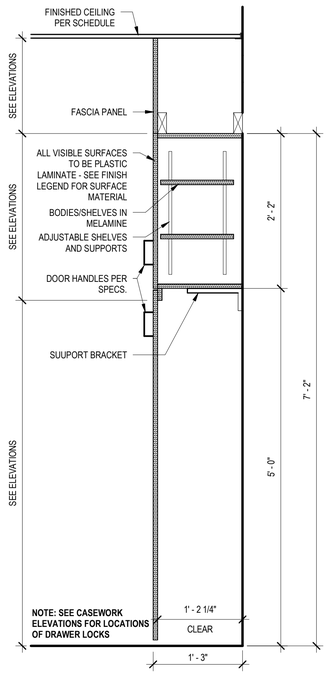
4 A801 **RECEPTION SECTION**

SCALE: 1" = 1'-0"



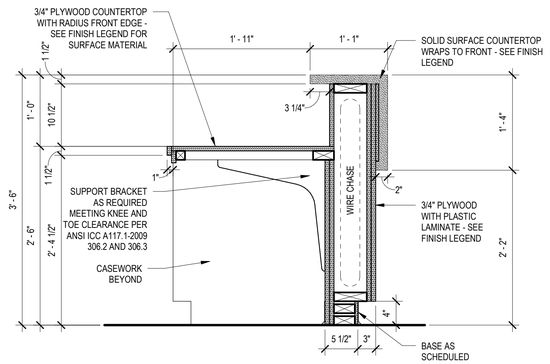
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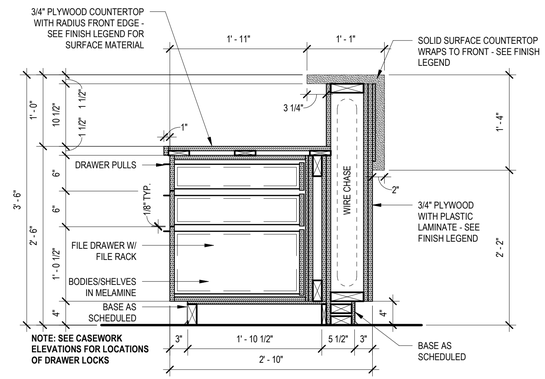
6 A801 **CASEWORK SECTION**

SCALE: 1" = 1'-0"



7 A801 **RECEPTION SECTION**

SCALE: 1" = 1'-0"



8 A801 **RECEPTION SECTION**

SCALE: 1" = 1'-0"

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CERT. NO. 51098

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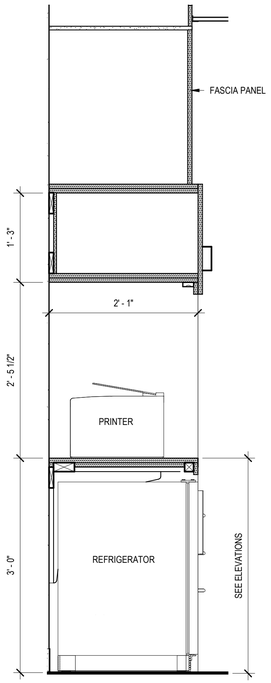
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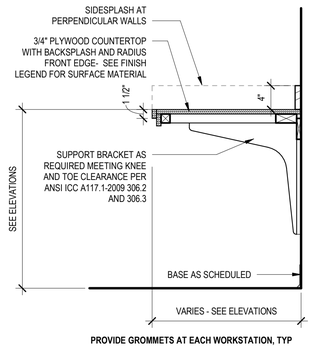
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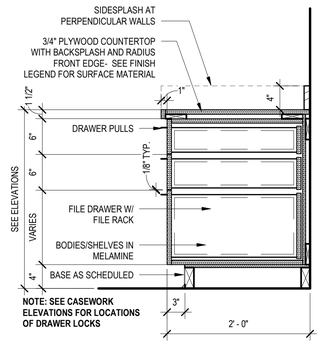
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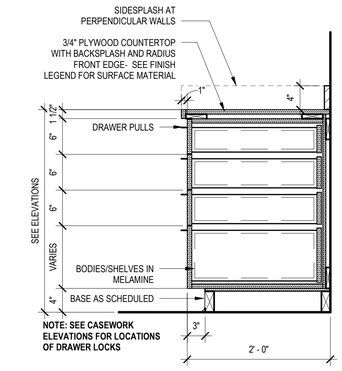
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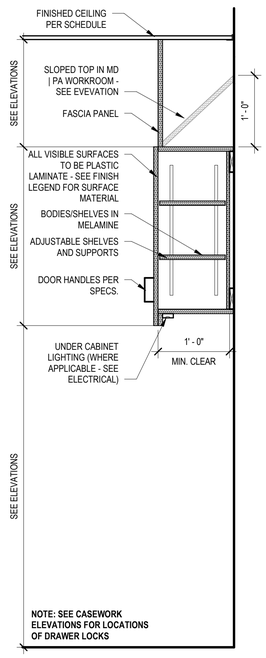
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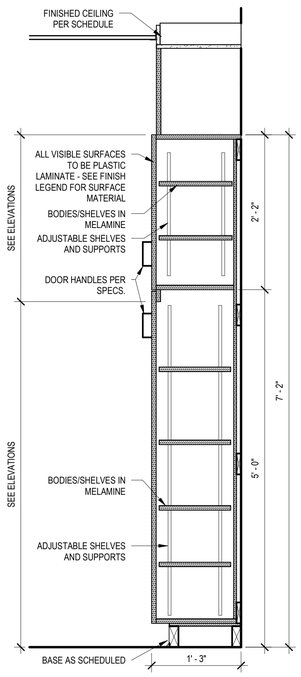
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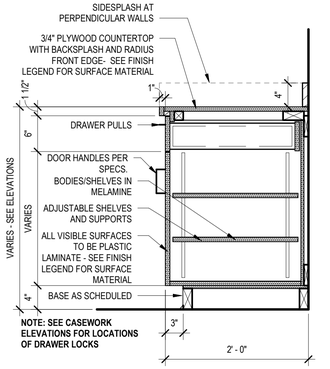
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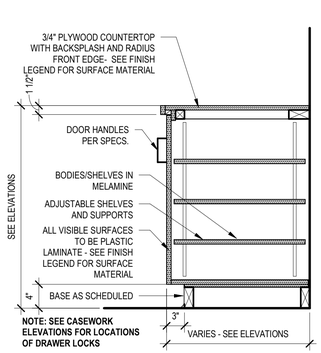
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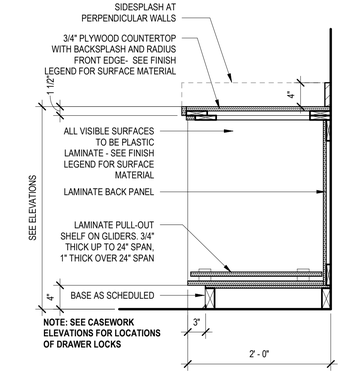
9 A802 **CASEWORK SECTION**
SCALE: 1" = 1'-0"



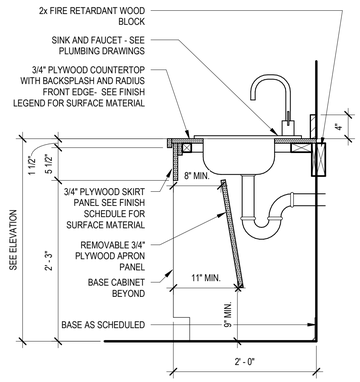
5 A802 **CASEWORK SECTION**
SCALE: 1" = 1'-0"



6 A802 **CASEWORK SECTION**
SCALE: 1" = 1'-0"



7 A802 **CASEWORK SECTION**
SCALE: 1" = 1'-0"



10 A802 **CASEWORK SECTION**
SCALE: 1" = 1'-0"

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NEIGHBORING CONCEPTS PLLC ARCHITECTURE INTERIOR DESIGN CERT. NO. 51098 CHARLOTTE, NC

FRANK ARNELL LITTLE REGISTERED ARCHITECT 9404 NORTH CAROLINA MOORESVILLE, N.C.

Digitally signed by Frank A. Little
Frank A. Little Date: 2023.06.14 17:35:15-04'00'

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

MILLWORK DETAILS

ISSUE DATE 06/14/2023
CHECKED GTB
SHEET BY AVB
PROJECT NUMBER 21-010

A802

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.

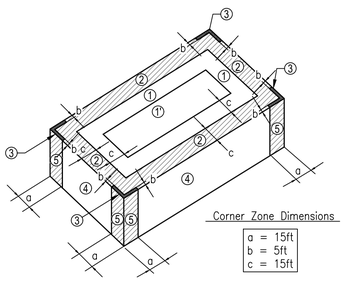
Basic Design Wind Speed:
3-second Gust PER ASCE
Vult. = 144 mph
Exposure "B"

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 = 42k = Vy 65k

Components & Cladding

Components and Cladding Wind Pressure (psf)									
Walls	Area = 10ft^2		Area = 20ft^2		Area = 50ft^2		Area = 100ft^2		Area = 500ft^2	
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 = 10ft^2		Area = 20ft^2		Area = 50ft^2		Area = 100ft^2		Area = 500ft^2	
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

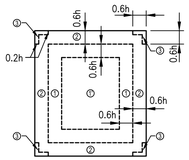
Notes:
1. Areas noted are effective wind areas as per ASCE 7-16, 26.2 definitions.
2. See figures below for Zone locations.
3. Plus and minus signs signify pressures acting toward and away from surfaces, respectively.
4. Design pressures shown in table are strength design wind pressures. Allowable stress 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.



Flat Roof

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 = 11k
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 20 (less than 15 is preferred), liquid limit less than 40, 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 95 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 2 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 WWF6x6xW2.0xW2.0 or 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, 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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Date: 2023.03.29 11:23:22-04'00'

Novant Family Medical Clinic - North Wilmington
3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S101

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 calcuations.

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

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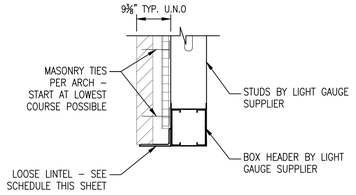
No.	Description	Date

CONSTRUCTION DOCUMENTS

GENERAL NOTES

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S102

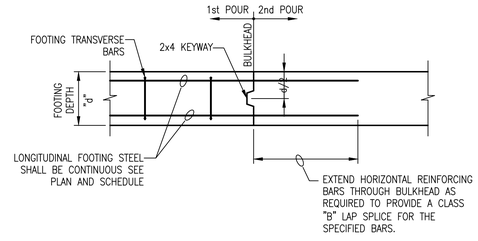


LOOSE LINTEL DETAIL
SCALE: 3/4" = 1'–0"

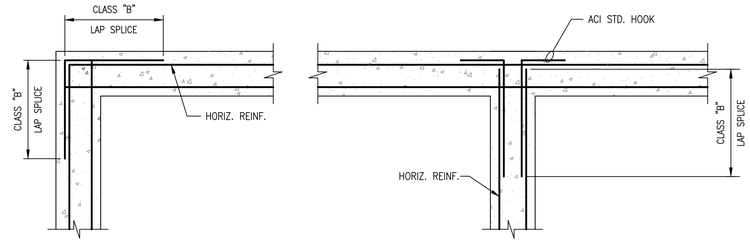
STEEL LINTEL SCHEDULE

CLEAR OPENING	ONE ANGLE FOR EA 4"WYTHE	MIN. BRG	MAX. HEIGHT OF BRICK
0'–8" TO 6'–0"	∠8¾" x 4" x ⅜" LLH	8"	9'–0"
6'–0" TO 8'–0"	8¾"x5"x7/16" BENT PLATE LLH	8"	9'–0"
8'–0" TO 10'–0"	7"x8¾"x7/16" BENT PLATE LLH	8"	9'–0"
10'–0" TO 12'–0"	9"x8¾"x7/16" BENT PLATE LLV	8"	9'–0"

NOTES:
1. WHERE LINTELS BEAR ON HOLLOW MASONRY UNITS FILL ALL CORES UNDER BEARING WITH GROUT FROM BOTTOM OF LINTEL TO 16" MINIMUM BELOW.
2. THESE LINTELS ARE NOT DESIGNED FOR MASONRY WALLS THAT CARRY FLOOR OR ROOF LOAD.
3. LINTELS ARE DESIGNED TO CARRY THE MAXIMUM HEIGHT OF BRICK LISTED IN SCHEDULE. IF STACKED BRICK HEIGHT EXCEEDS LISTED VALUE, THEN CONTACT STRUCTURAL ENGINEER FOR ALTERNATE DESIGN.
4. ALL STEEL LINTELS SHALL BE HOT DIP GALVANIZED AND PAINTED.
5. SEE DETAIL BELOW FOR REQUIREMENTS



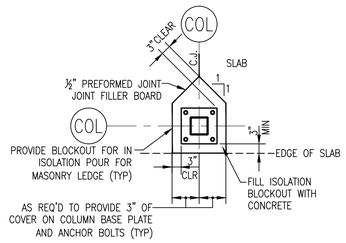
TYPICAL FOOTING CONSTRUCTION JOINT SECTION
SCALE: 3/4" = 1'–0"



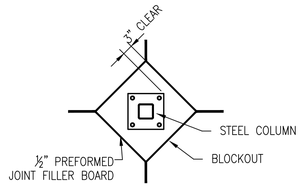
② FOOTING CORNERS

② FOOTING INTERSECTION

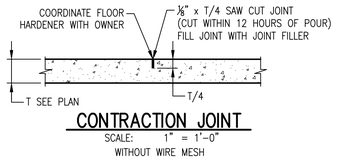
TYPICAL CORNER REINFORCING FOR CONCRETE FOOTINGS
SCALE: 3/4" = 1'–0"



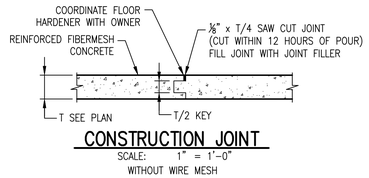
TYPICAL ISOLATION JOINT AT SLAB EDGE
NOT TO SCALE



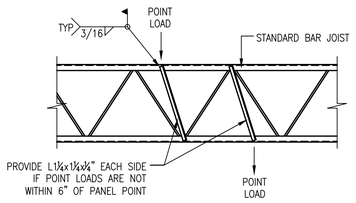
ISOLATION JOINT DETAIL
NOT TO SCALE



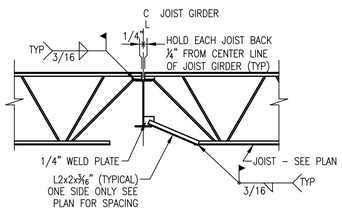
CONTRACTION JOINT
SCALE: 1" = 1'–0"
WITHOUT WIRE MESH



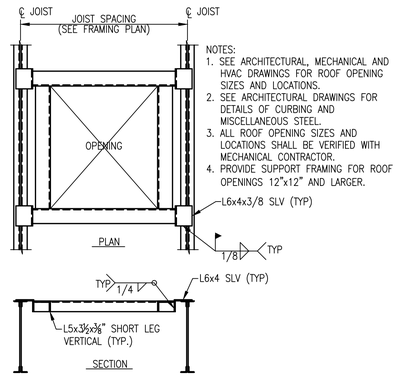
CONSTRUCTION JOINT
SCALE: 1" = 1'–0"
WITHOUT WIRE MESH



DETAIL OF TYPICAL JOIST REINFORCEMENT
NOT TO SCALE

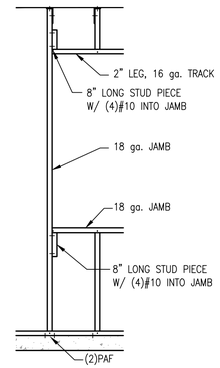


SECTION "A"
SCALE: 1/2" = 1'–0"
GIRDER BOTTOM FLANGE (BRACE TYP.)

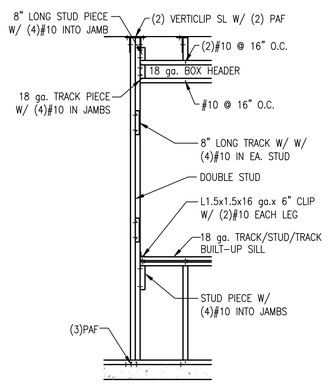


DETAIL OF TYPICAL ROOF OPENING
NOT TO SCALE

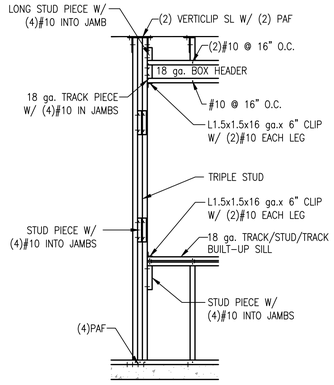
AT CONTRACTOR'S OPTION:
USE QUICKFRAMES
WWW.QUICKFRAMES.US



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 Family Medical Clinic - North Wilmington
3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

TYPICAL DETAILS

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S103

SCHEDULE FOR STRUCTURAL MATERIAL INSPECTIONS

BUILDING COMPONENTS OR MATERIAL	MATERIAL SUBMITTAL	INSPECTION / MONITORING	INSPECTION FREQUENCY	INSPECTOR QUALIFICATIONS	TEST REQUIREMENTS	TEST FREQUENCY	INSPECTION AGENCY
SOILS	1. REVIEW ECS SOUTHEAST, LLP GEOTECHNICAL REPORT 22:32430 – 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 NON–LOAD BEARING EXTERIOR WALL FRAMING SHOP DRAWINGS. 2. SUBMIT PRODUCT DATA SHEETS. 3. SUBMIT P.E. SEALED CALCULATIONS.	1. INSPECT WALL FRAMING. 2. INSPECT WALL FRAMING MECHANICAL CONNECTIONS TO ROOF & SLAB.	1. PERIODIC 2. 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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WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1806 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19475 DON R. WOODS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19475 DON R. WOODS

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DN: cn=Don R. Woods, PE, email=Eadotwoods@woodseng.com, o=WOODS ENGINEERING, P.A., l=Wilmington, S=North Carolina, C=US
Date: 2023.03.29 11:23:40-04'00'

Novant Family Medical Clinic - North Wilmington
3009 Princess Place Drive

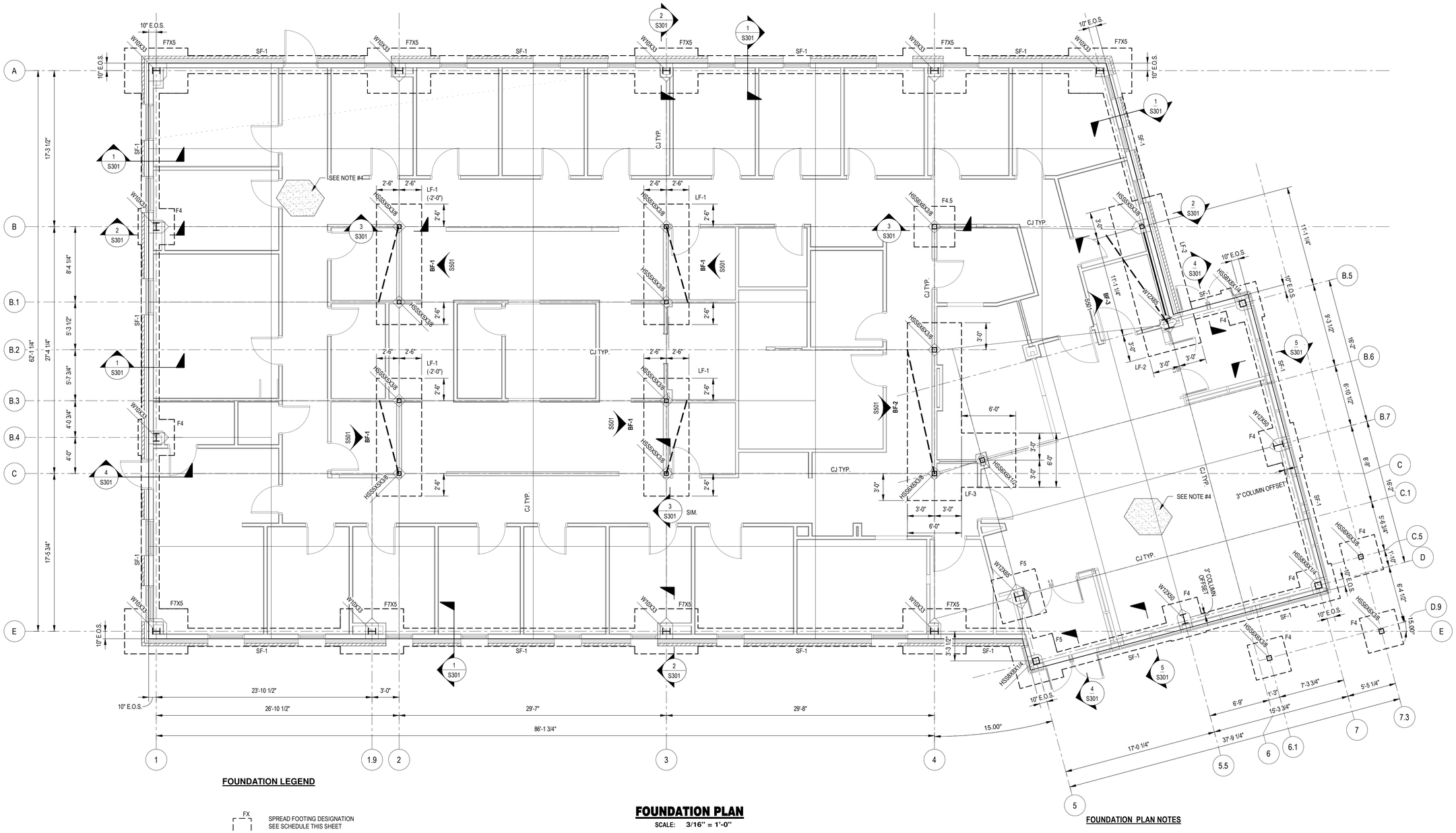
No.	Description	Date

CONSTRUCTION DOCUMENTS

STRUCTURAL MATERIAL INSPECTIONS

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S104



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/HSS BF-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.
- BF-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.)	
F4	4'-0" x 4'-0" x 1'-0"	-	(4) #5	
F4.5	4'-6" x 4'-6" x 1'-0"	-	(4) #5	
F5	5'-0" x 5'-0" x 1'-6"	(6) #4	(6) #5	
F7X5	7'-0" x 5'-0" x 1'-9"	(6) #5 LONG & (8) #5 SHORT	(6) #6 LONG & (8) #5 SHORT	

STRIP FOOTING (SF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	
SF-1	2'-0" x 1'-0" x CONT.	-	(3) #4	

LATERAL FOOTING (LF-x) SCHEDULE

MARK	WIDTH x THICKNESS x LENGTH	REINFORCEMENT		COMMENTS
		TOP BARS	BOTTOM BARS	
LF-1	5'-0" x 1'-9 x SEE PLAN	(6) #5 LONG & #5 @12"o.c. SHORT	(6) #6 LONG & #6 @12"o.c. SHORT	
LF-2	6'-0" x 2'-0" x SEE PLAN	(6) #5 LONG & #5 @12"o.c. SHORT	(6) #6 LONG & #6 @12"o.c. SHORT	
LF-3	SEE PLAN x 2'-0" x SEE PLAN'	#5 @12"o.c. LONG & #5 @12"o.c. SHORT	#6 @12"o.c. LONG & #6 @12"o.c. SHORT	EXTEND REBAR TO FAR END OF ADJACENT FOOTING

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" = 37.50' 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.
5. EXTERIOR AND BROOM FINISHED SLABS 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.
6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
7. 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.
8. 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.
9. SEE S5.0 SHEETS FOR STEEL BRACED FRAME INFORMATION AND REQUIREMENTS.
10. 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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WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1806 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

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Date: 2023.03.29 11:23:45-04'00'

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

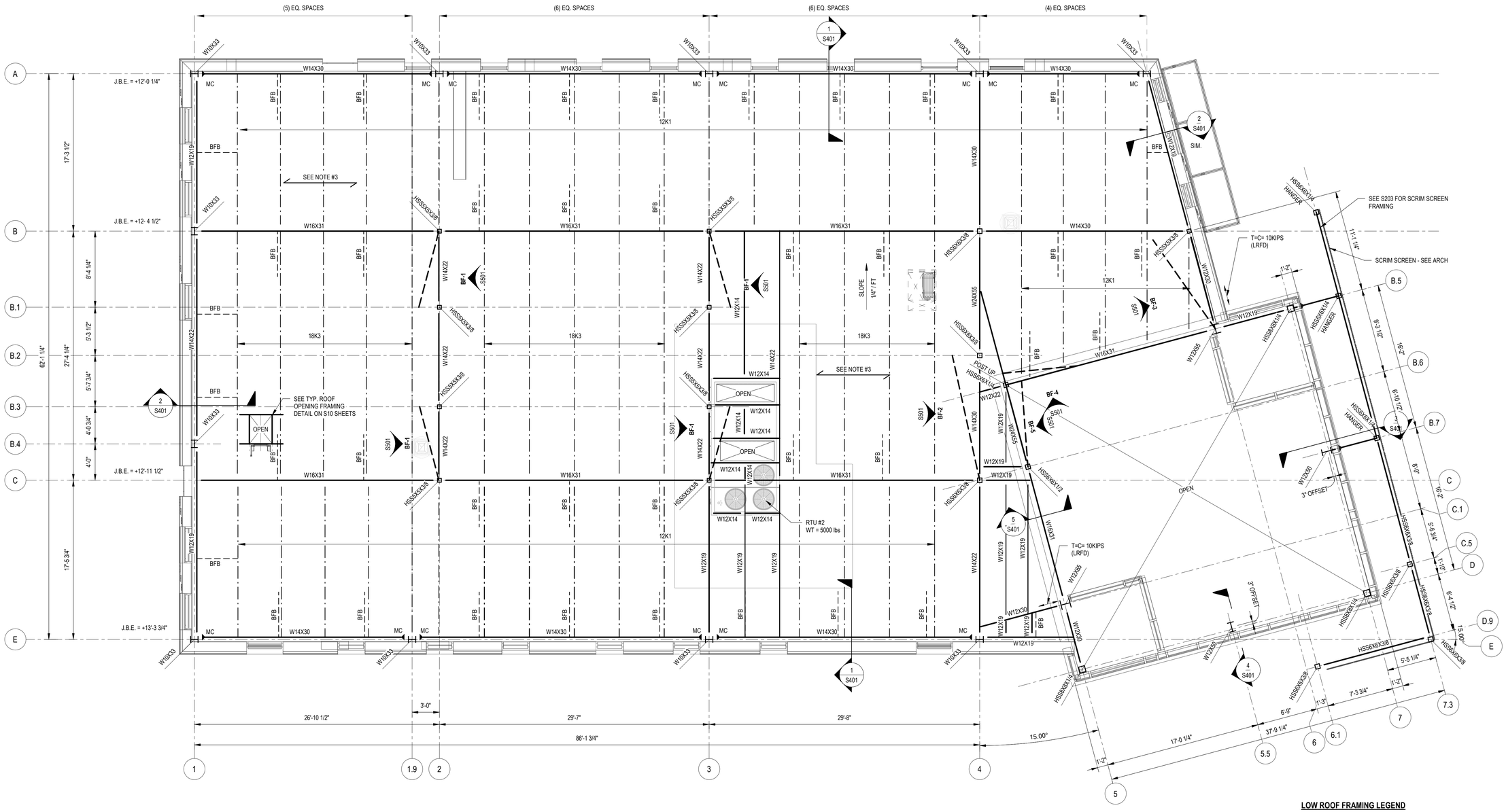
CONSTRUCTION DOCUMENTS

FOUNDATION PLAN

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S201

03/29/2023

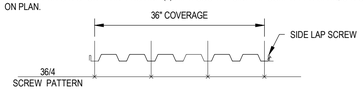


LOW ROOF FRAMING PLAN

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

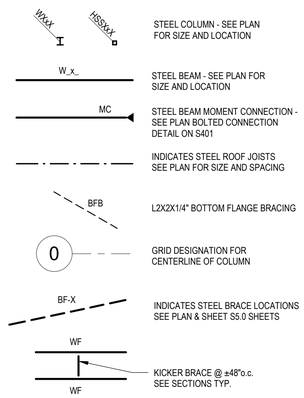
LOW ROOF FRAMING NOTES

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 20 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.

LOW ROOF FRAMING LEGEND



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NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

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DN: cn=Don R. Woods, PE, E=dwoods@woodseng.com, O="DON R. WOODS ENGINEERING, P.A.", L=Wilmington, S=North Carolina, C=US
Date: 2023.03.29 11:23:51-04'00'

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

LOW ROOF FRAMING PLAN

ISSUE DATE 03/27/2023
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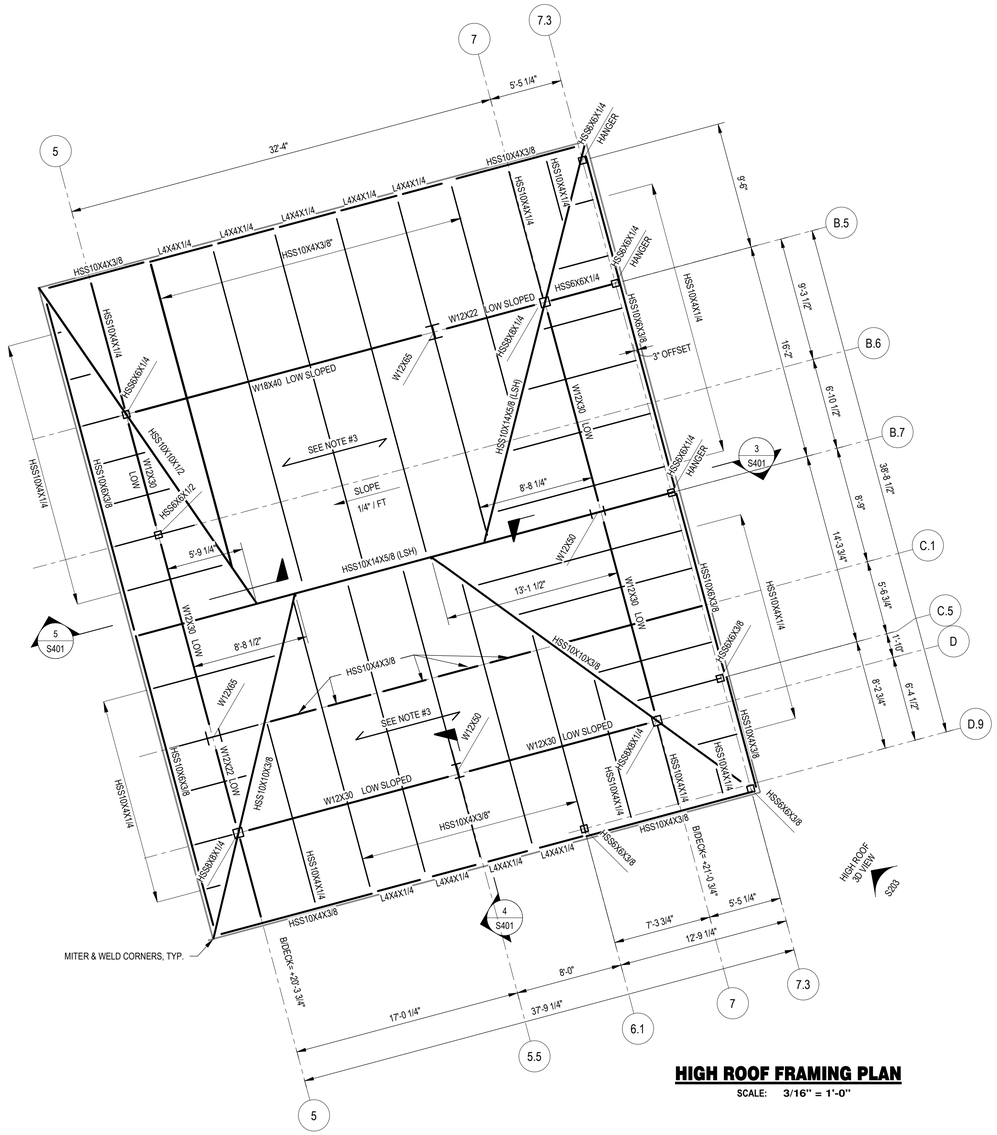
S202

03/29/2023



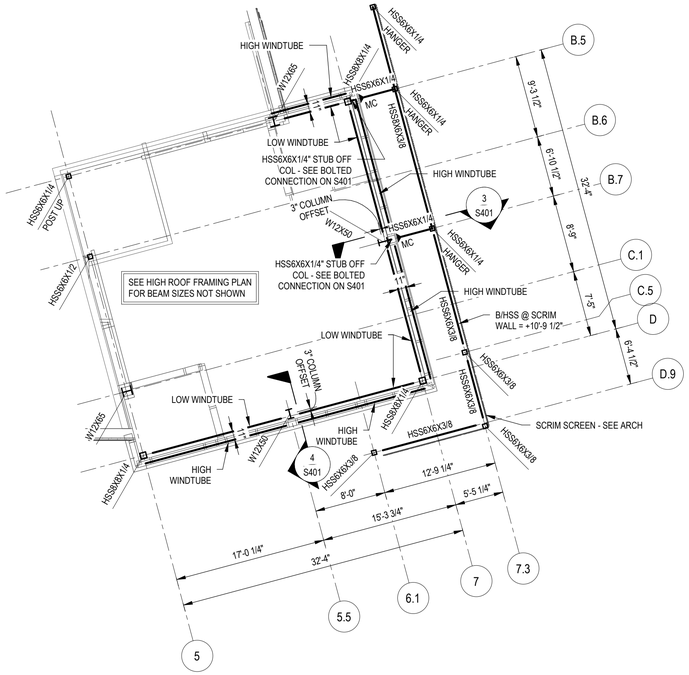
HIGH ROOF 3D VIEW

SCALE: NOT TO SCALE



HIGH ROOF FRAMING PLAN

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



WIND TUBE & SCRIM SCREEN FRAMING PLAN

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

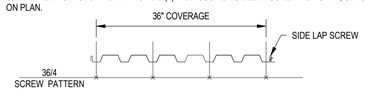
ALL WINDTUBES ARE HSS6X6X3/8" U.N.O.
LOW WIND TUBE TOP OF STEEL = +15'-8"
HIGH WIND TUBE BOTTOM OF STEEL = +18'-8"
HSS SCRIM WALL TUBES BOTTOM OF STEEL = +10'-9 1/2"

CLERESTORY & HIGH ROOF FRAMING LEGEND

- WXX / HSSXX — 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
- BF-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.
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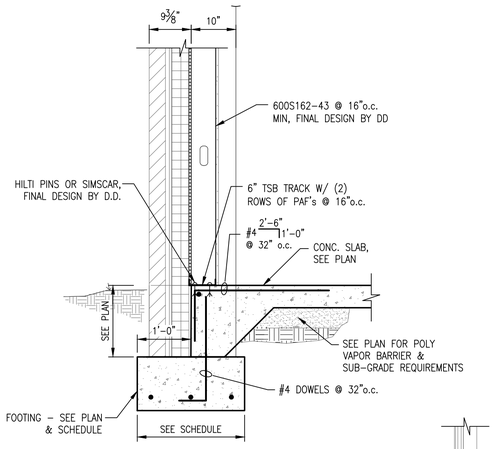
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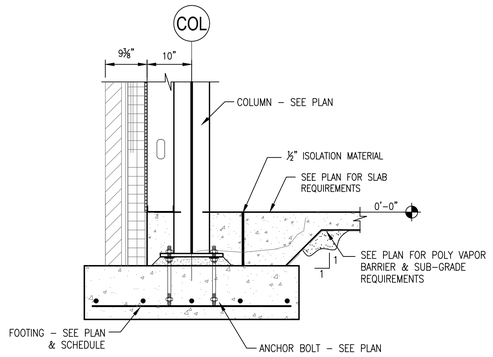
HIGH ROOF & WIND BEAM FRAMING PLAN

ISSUE DATE 03/27/2023
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PROJECT NUMBER 21-010

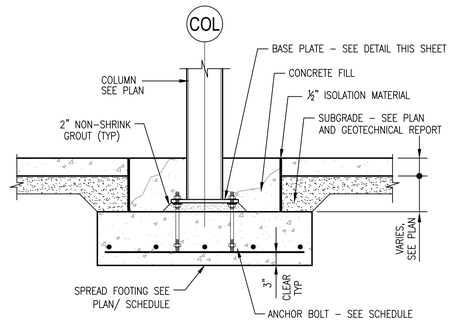
S203



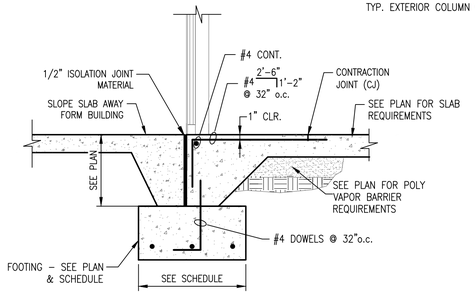
SECTION 1-1
SCALE: 3/4" = 1'-0"



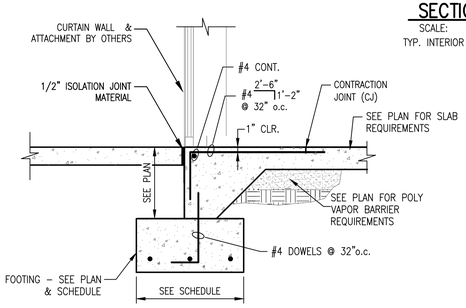
SECTION 2-2
SCALE: 3/4" = 1'-0"
TYP. EXTERIOR COLUMN WALL FOOTING



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



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



SECTION 5-5
SCALE: 3/4" = 1'-0"

DETAIL 'BP-1'
SCALE: 1 1/2" = 1'-0"
W10 TYPICAL, UNO

DETAIL 'BP-2'
SCALE: 1 1/2" = 1'-0"
W12 TYPICAL, UNO

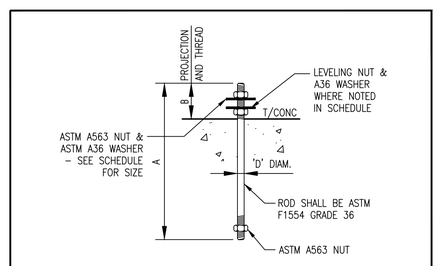
DETAIL 'BP-3'
SCALE: 1 1/2" = 1'-0"
(HSS5x5 & HSS6X6 BASEPLATE)
TYPICAL, UNO

DETAIL 'BP-4'
SCALE: 1 1/2" = 1'-0"
(HSS8x8 BASEPLATE)
TYPICAL, UNO

DETAIL 'BP-5'
SCALE: 1 1/2" = 1'-0"
(W10X33 MOMENT FRAME COLUMNS)
TYPICAL, UNO

DETAIL 'BP-6'
SCALE: 1 1/2" = 1'-0"
(W12 BRACE FRAME COLUMN W/ GUSSET @ BF-3)
TYPICAL, UNO

DETAIL 'BP-7'
SCALE: 1 1/2" = 1'-0"
HSS5x5 & HSS6x6



ANCHOR BOLT SCHEDULE							
MARK	BOLT DIAM. D	HOLE DIAMETER	A	B	WASHER O.D. x t	LEVELING NUT	REMARKS
AB-1	¾"	1⅜"	1'-2"	5"	2" x ¼"	YES	2" LEVELING GROUT
AB-2	1"	1 1⅜"	1'-10"	7"	3" x ⅜"	YES	2" LEVELING GROUT
AB-3	1¼"	2⅛"	2'-1"	7"	3½" x ½"	YES	2" LEVELING GROUT

NOTE: ALL ANCHOR BOLTS GREATER OR EQUAL TO 1½"ø NEED TO HAVE HEAVY HEX HEADS. CUT WASHERS MAY BE ROUND OR SQUARE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19475 DON R. WOODS

Digitally signed by Don R. Woods, PE
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Reason:
Email:edotwoods@woodseng.com,
CN=Don R. Woods, PE
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L=Wilmington, S=North Carolina, C=US

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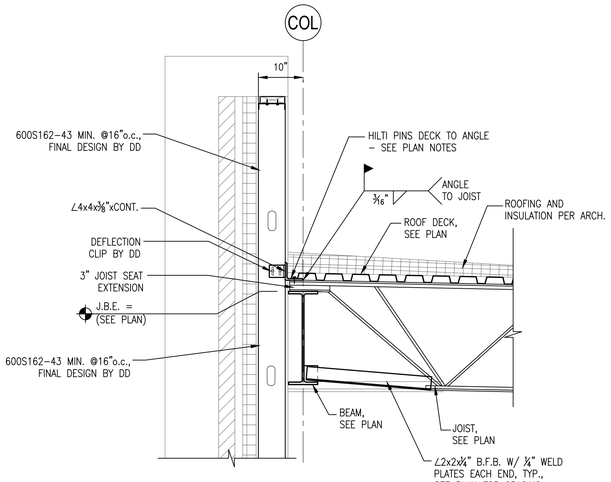
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CONSTRUCTION DOCUMENTS

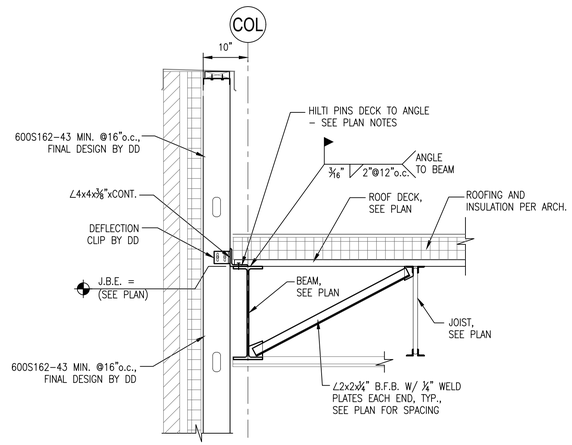
FOUNDATION SECTIONS & DETAILS

ISSUE DATE 03/27/2023
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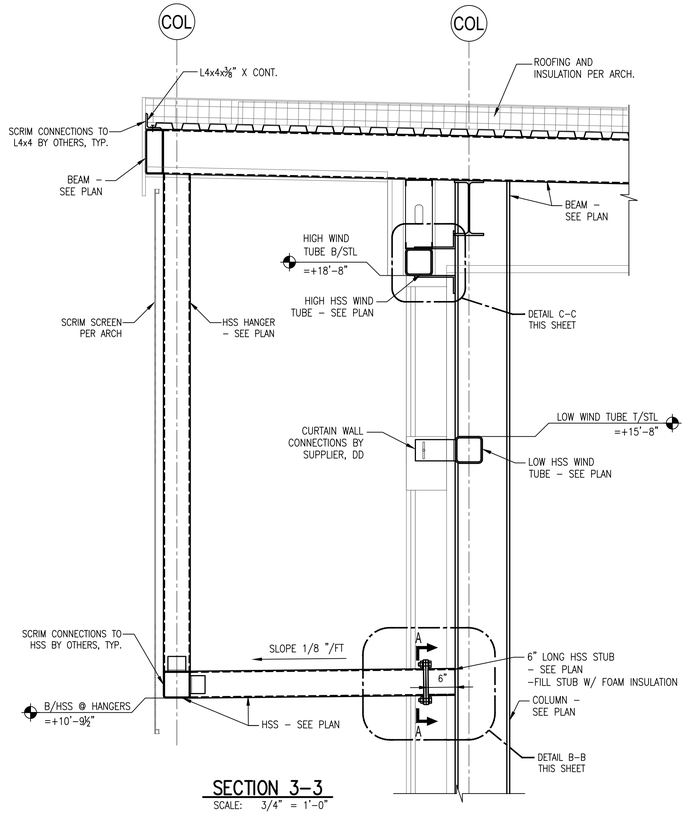
S301



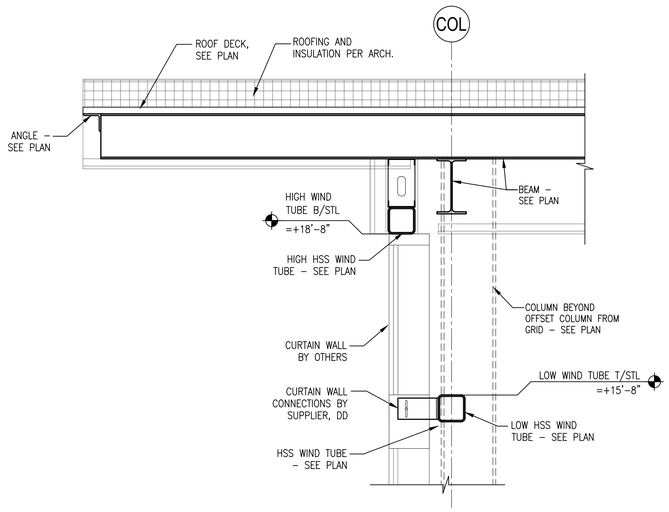
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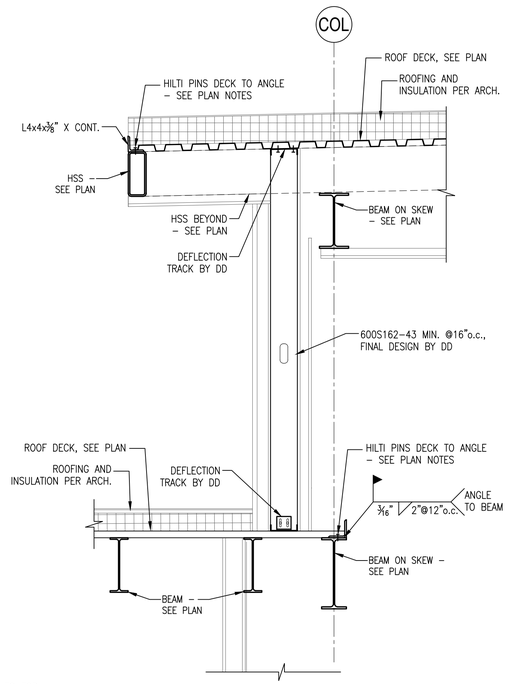
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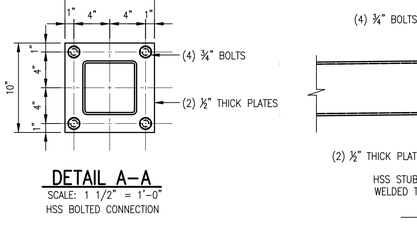
SECTION 3–3
SCALE: 3/4" = 1'–0"



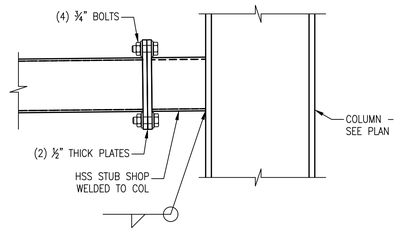
SECTION 4–4
SCALE: 3/4" = 1'–0"



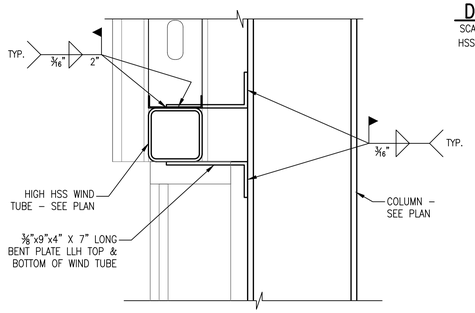
SECTION 5–5
SCALE: 3/4" = 1'–0"



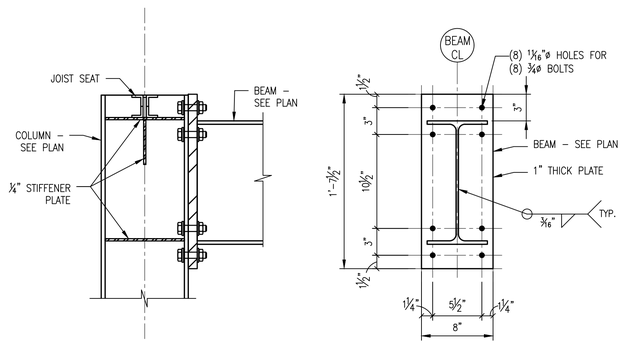
DETAIL A–A
SCALE: 1 1/2" = 1'–0"
HSS BOLTED CONNECTION



DETAIL B–B
SCALE: 1 1/2" = 1'–0"
HSS BOLTED CONNECTION



DETAIL C–C
SCALE: 1 1/2" = 1'–0"
WIND TUBE BENT PLATE CONNECTION
TYP. @ HIGH WIND TUBES



TYPICAL LOW ROOF MOMENT FRAME DETAILS
SCALE: 1 1/2" = 1'–0"

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WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1806 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19475 DON R. WOODS

Digitally signed by Don R. Woods, PE
DN: cn=Don R. Woods, PE, o=WOODS ENGINEERING, P.A., l=Wilmington, S=North Carolina, C=US
Date: 2023.03.29 11:24:08-04'00'

Novant Family Medical Clinic - North Wilmington
3009 Princess Place Drive

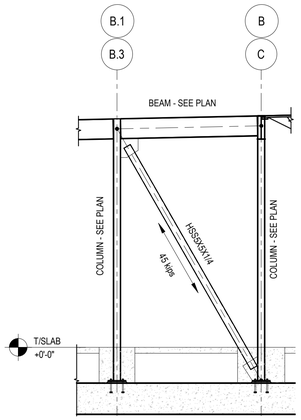
No.	Description	Date

CONSTRUCTION DOCUMENTS

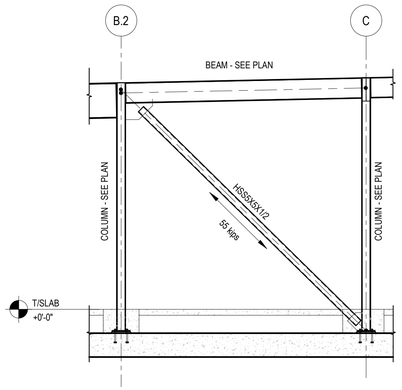
ROOF FRAMING SECTIONS & DETAILS

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

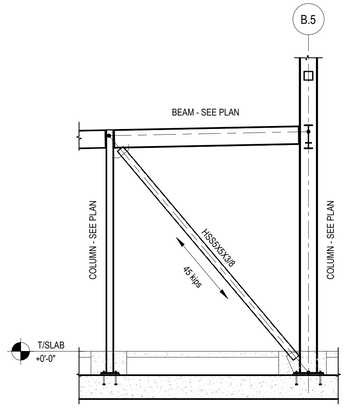
S401



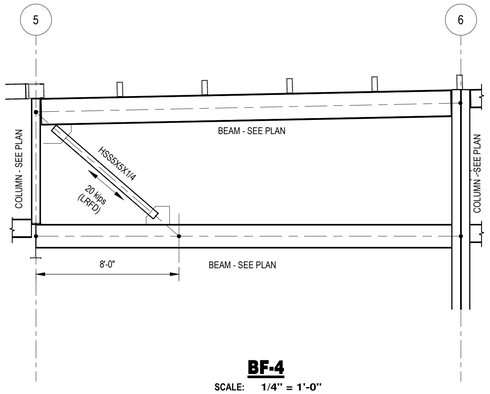
BF-1
SCALE: 1/4" = 1'-0"



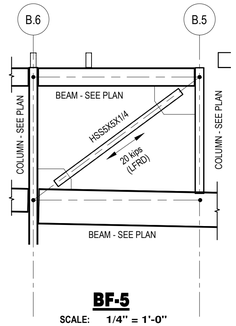
BF-2
SCALE: 1/4" = 1'-0"



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



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



BF-5
SCALE: 1/4" = 1'-0"

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WOODS ENGINEERING, P.A. CORPORATE SEAL No. C-1806 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 19475 ENGINEER DON R. WOODS

NORTH CAROLINA PROFESSIONAL 19475 ENGINEER DON R. WOODS

Digitally signed by Don R. Woods, PE
Date: 2023.03.29 11:24:14 -04'00'
DN: cn=Don R. Woods, PE, o=WOODS ENGINEERING, P.A., l=Wilmington, S=North Carolina, C=US
Email: dwoods@woodseng.com

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

BRACE FRAME ELEVATIONS

ISSUE DATE 03/27/2023
CHECKED DW
SHEET BY MBK
PROJECT NUMBER 21-010

S501

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 MOUNTED SMOKE 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

OUTDOOR AIR VENTILATION SCHEDULE: RTU-1

AREA DESCRIPTION	CATEGORY	AREA SF	SUPPLY AIRFLOW	TOTAL OCCUPANTS	OA CFM/PERSON	OA PEOPLE TOTAL	AREA OA FLOW CFM/SFT	AREA CFM	TOTAL OUTSIDE AIR	DONE AIR DISTRIBUTION EFFECTIVENESS Ez	TOTAL MIN OA CFM Voz	Zp	Ev	CORRECTED OA FLOW
100 - LOBBY	RECEPTION	871	1785	30	5	150	0.06	52	202	0.8	253	0.14	1	253
122A - STAFF BREAKROOM	OFFICE	207	380	4	5	20	0.06	12	32	0.8	41	0.11	1	41
125 - CENTRAL NURSE STATION	RECEPTION	305	730	12	5	60	0.06	18	78	0.8	98	0.13	1	98
108 - EXAM 6	OFFICE	108	85	2	5	10	0.06	6	16	0.8	21	0.24	0.9	23
110 - EXAM 4	OFFICE	108	95	2	5	10	0.06	6	16	0.8	21	0.22	0.9	23
112 - EXAM 5	OFFICE	108	85	2	5	10	0.06	6	16	0.8	21	0.24	0.9	23
113 - EXAM 3	OFFICE	108	95	2	5	10	0.06	6	16	0.8	21	0.22	0.9	23
114 - EXAM 2	OFFICE	108	95	2	5	10	0.06	6	16	0.8	21	0.22	0.9	23
115 - EXAM 1	OFFICE	108	95	2	5	10	0.06	6	16	0.8	21	0.22	0.9	23
123 - EXAM 7	OFFICE	108	165	2	5	10	0.06	6	16	0.8	21	0.12	1	21
124 - EXAM 8	OFFICE	108	140	2	5	10	0.06	6	16	0.8	21	0.15	1	21
126 - EXAM 9	OFFICE	108	140	2	5	10	0.06	6	16	0.8	21	0.15	1	21
127 - EXAM 10	OFFICE	108	165	2	5	10	0.06	6	16	0.8	21	0.12	1	21
128 - EXAM 11	OFFICE	108	165	2	5	10	0.06	6	16	0.8	21	0.12	1	21
130 - EXAM 12 (BARIATRIC)	OFFICE	130	175	2	5	10	0.06	8	18	0.8	22	0.13	1	22
106 - CLINICAL FLEX	OFFICE	106	90	2	5	10	0.06	6	16	0.8	20	0.23	0.9	23
116 - LARGE CLINICAL FLEX	OFFICE	151	180	2	5	10	0.06	9	19	0.8	24	0.13	1	24
120 - MD/PA	OFFICE	222	278	2	5	10	0.06	13	23	0.8	29	0.10	1	29
131 - IMAGING & CONTROLS	OFFICE	223	425	2	5	10	0.06	13	23	0.8	29	0.07	1	29
101C - WOMEN TLT	TOILET	57	35	0			0	0	0	0.8	0			
111 - WOMEN TLT	TOILET	67	15	0			0	0	0	0.8	0			
117 - MEN TLT	TOILET	67	15	0			0	0	0	0.8	0			
121 - WOMEN TLT	TOILET	67	15	0			0	0	0	0.8	0			
129 - MEN TLT	TOILET	67	15	0			0	0	0	0.8	0			
133 - MEN TLT	TOILET	59	35	0			0	0	0	0.8	0			
103 - SOCIAL WKR	OFFICE	80	130	0			0	0	0	0.8	0			
104 - ADMIN OFFICE	OFFICE	129	135	2	5	10	0.06	8	18	0.8	22	0.16	0.9	25
105 - ADMIN FLEX	OFFICE	106	100	2	5	10	0.06	6	16	0.8	20	0.20	0.9	23
118 - BEHAVIORAL HEALTH	OFFICE	124	155	2	5	10	0.06	7	17	0.8	22	0.14	1	22
102A - COPY/FAX	OFFICE	80	90	2	5	10	0.06	5	15	0.8	19	0.21	0.9	21
102B - RECEPTION	RECEPTION	178	125	6	5	30	0.06	11	41	0.8	51	0.41	0.7	73
125C - CONSULT	OFFICE	75	50	2	5	10	0.06	5	15	0.8	18	0.36	0.7	26
132 - LAB	OFFICE	134	230	2	5	10	0.06	8	18	0.8	23	0.10	1	23
122B - JANITOR	STORAGE	40	15	0			0.12	5	5	0.8	6	0.40	0.7	9
119 - SOILED	STORAGE	73	15	0			0.12	9	9	0.8	11	0.73	0.4	27
125A - MEDS	STORAGE	101	75	0			0.12	12	12	0.8	15	0.20	0.9	17
125B - CLEAN	STORAGE	49	10	0			0.12	6	6	0.8	7	0.74	0.4	18
122D - STAFF VESTIBULE	CORRIDOR	69	30	0			0.06	4	4	0.8	5	0.17	0.9	6
145 - VESTIBULE	CORRIDOR	74	270	0			0.06	4	4	0.8	6	0.02	1	6
146 - VESTIBULE	CORRIDOR	72	265	0			0.06	4	4	0.8	5	0.02	1	5
CORRIDOR	CORRIDOR	1291	2775	0			0.06	77	77	0.8	97	0.03	1	97
									856		1070			1154
	Total Area =	6462	9968	96						TOTAL OUTSIDE AIR REQUIRED	1154			
										TOTAL OUTSIDE AIR PROVIDED	1500			

MECHANICAL SHEET 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 6/14/2023

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

MECHANICAL SYMBOL LEGEND, NOTES AND DRAWING LIST

ISSUE DATE 06/14/2023

CHECKED MSR

SHEET BY NO

PROJECT NUMBER 21-010

M001

6/15/2023 3:27:56 PM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - Mech.rvt

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	NAILOR MODEL NO.	SERVICE	MAXIMUM CFM	PANEL SIZE	NECK SIZE	FINISH	NOTES
CD-1	RNS/ARNS	CEILING SUPPLY DIFFUSER	0-140	24"X24"	6"Ø	B.O.W.	1, 6, 7
CD-2	RNS/ARNS	CEILING SUPPLY DIFFUSER	141-250	24"X24"	8"Ø	B.O.W.	1, 6, 7
CD-3	RNS/ARNS	CEILING SUPPLY DIFFUSER	251-360	24"X24"	10"Ø	B.O.W.	1, 6, 7
CD-4	RNS/ARNS	CEILING SUPPLY DIFFUSER	0-140	12"X24"	6"Ø	B.O.W.	1, 6, 7
CD-5	RNS/ARNS	CEILING SUPPLY DIFFUSER	0-140	12"X12"	6"Ø	B.O.W.	1, 6, 7
RG-1	4360A	CEILING MOUNTED RETURN GRILLE	600	24"X12"	12X"12"	B.O.W.	3, 6
RG-2	4360A	CEILING MOUNTED RETURN GRILLE	1000	24"X12"	24"X12"	B.O.W.	3, 6
EG-1	4360A	CEILING MOUNTED EXHAUST GRILLE	100	24"X12"	6"Ø	B.O.W.	5, 6, 7
EG-2	4360A	CEILING MOUNTED EXHAUST GRILLE	100	12"X12"	6"Ø	B.O.W.	5, 6, 7
SD-1	5850	LINEAR DIFFUSER	100	48"X6"	6"Ø	B.O.W.	8
SD-2	5850	LINEAR DIFFUSER	300	48"X6"	8"Ø	B.O.W.	8

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 ROOMS SHALL BE ALUMINUM CONSTRUCTION. OTHER AREAS TO BE STEEL CONSTRUCTION.
8. ALL LINEAR DIFFUSERS SHALL HAVE EXTERNALLY INSULATED SUPPLY PLENUMS.

FAN SCHEDULE

TAG	LOCATION	SERVES	CFM	E.S.P.	TYPE	DRIVE	BHP	MHP	VOLTS/ PHASE	WEIGHT LBS	ROOF OPENING	RPM	COOK MODEL NUMBER	NOTES
EF-1	ROOF	TOILETS, JANITOR, SOILED	330	0.5	CENTRIFUGAL DOWNBLAST	DIRECT	0.095	0.125	120/1	20	20" X 20"	3348	120 ACED OR80	1
EF-2	ROOF	TOILETS	280	0.5	CENTRIFUGAL DOWNBLAST	DIRECT	0.100	0.125	120/1	20	20" X 20"	2798	120 ACED OR80	1

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

VARIABLE AIR VOLUME TERMINAL UNIT

TAG	ROOMS SERVED	SELECTED ON TRANE MODEL	INLET DIA.	COOLING		HEAT CFM	REHEAT COIL DATA											NOTES
				MIN CFM	MAX CFM		MBH	KW	VOLTS	PHASE	STAGES	CONTROL	AMPS	MCA	MOCP	EAT	LAT @ HTG. CFM	
VAV-01	101C, 103, 104, CORRIDOR	VCEF	6	100	325	190	8.5	2.5	208	1	1	SCR	9	11.25	15	55	90	1-4
VAV-02	105, 106, CORRIDOR	VCEF	6	65	200	150	6.6	2	208	1	1	SCR	7.2	9	15	55	90	1-4
VAV-03	108, 110, 112, CORRIDOR	VCEF	6	120	375	225	9.7	3	208	1	1	SCR	10.8	13.5	20	55	90	1-4
VAV-04	113, 114, 115, CORRIDOR	VCEF	6	95	300	225	10	3	208	1	1	SCR	10.8	13.5	20	55	90	1-4
VAV-05	116, 118, CORRIDOR	VCEF	8	125	405	225	9.2	3	208	1	1	SCR	10.8	13.5	20	55	90	1-4
VAV-06	120, 122B	VCEF	6	105	330	165	6.4	2	208	1	1	SCR	7.2	9	15	55	90	1-4
VAV-07	117, 119, 121, CORRIDOR	VCEF	6	50	150	75	2.9	1	208	1	1	SCR	3.6	4.5	10	55	90	1-4
VAV-08	122A, 122D	VCEF	8	140	450	265	11.7	3.5	208	1	1	SCR	12.6	15.75	20	55	90	1-4
VAV-09	123, 124, 126, CORRIDOR	VCEF	8	180	570	285	11.5	3.5	208	1	1	SCR	12.6	15.75	20	55	90	1-4
VAV-10	127, 128, 130, CORRIDOR	VCEF	8	160	505	265	11.2	3.5	208	1	1	SCR	12.6	15.75	20	55	90	1-4
VAV-11	132, 133, CORRIDOR	VCEF	6	105	330	165	6.7	2	208	1	1	SCR	7.2	9	15	55	90	1-4
VAV-12	102A, 102B, CORRIDOR	VCEF	8	140	440	220	7.5	2.5	208	1	1	SCR	9	11.25	15	55	90	1-4
VAV-13	111, 125A, 125B, 125C, 129, 131A, 131B	VCEF	10	240	770	385	12.9	4	208	1	1	SCR	14.4	18	25	55	90	1-4
VAV-14	CENTRAL NURSE STATION, 125A, 125B	VCEF	8	145	460	230	8.1	2.5	208	1	1	SCR	9	11.25	15	55	90	1-4
VAV-15	109 ELECTRICAL	VCEF	6	0	150	-	-	-	-	-	-	-	-	-	-	-	-	1, 3, 4

NOTES:

1. VAV BOX INLET SIZE MAY NOT MATCH INCOMING DUCT SIZE. CONCENTRIC TRANSITION WILL BE REQUIRED WHEN THIS OCCURS.
2. VAV 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 VARIABLE AIR VOLUME TERMINAL UNIT

TAG	SELECTED ON TRANE MODEL	INLET DIA.	COOLING		HEAT CFM	FAN CFM	FAN STATIC	VOLTS / PH	REHEAT COIL DATA									NOTES
			MIN CFM	MAX CFM					KW	VOLTS	PHASE	CONTROL	AMPS	MCA	MOCP	EAT	LAT @ HTG CFM	
FPVAV-01	VSEF	10	295	950	640	950	0.3"	480/3	8.5	208	3	SCR	12	15	20	65	90	1-6
FPVAV-02	VSEF	12	425	1375	1015	1375	0.3"	480/3	13.5	208	3	SCR	18	22.5	30	65	90	1-6

NOTES:

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.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

TAG	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	NOTES 1, 2, 3, 6
OUTDOOR UNIT													
SSO-1	ROOF	PAD	NA	NA	PUY-A12NKA7	NA	NA	208	1	15	20	16.0	NOTES 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	27.5	11.5	TED330CEB*6D2EGA0B*****HJBE2K0R	1500	8800	2.83	10	9.38	77.9/66.0	52.0/51.9	197	312	8800	2	208/3	175	157	3	62.3	81.1	54	5000	1-20

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 WITH PHASE LOSS PROTECTION FOR DRIVE & MANUAL BYPASS
4. PROVIDE 100% OUTSIDE AIR AND 100% RELIEF AIR ECONNOMIZER 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 EACH 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 DEALY.
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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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

222.063 6/14/2023

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULES

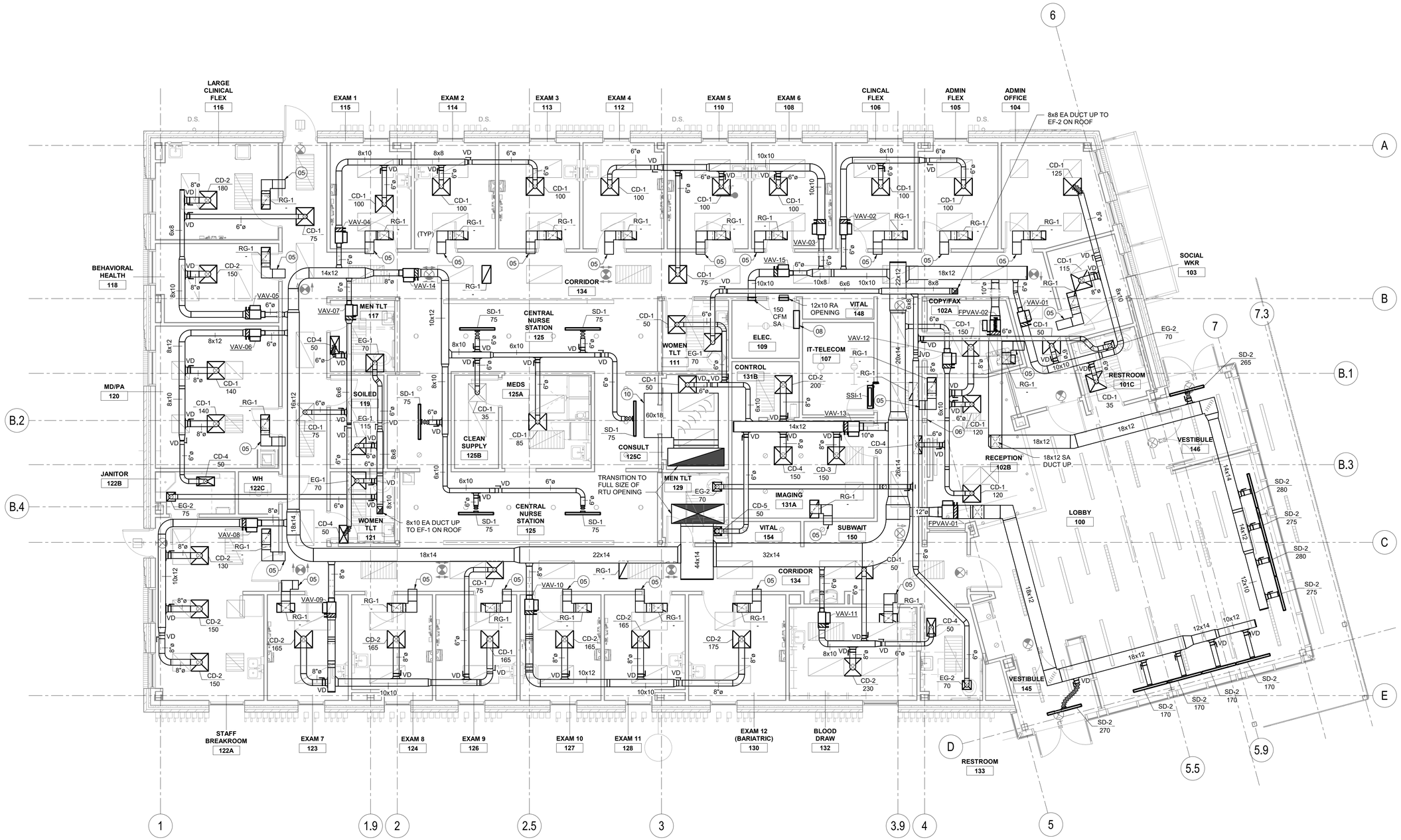
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M002

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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 MECHANICAL DUCTWORK PLAN
3/16" = 1'-0"

2' 0 2' 4' 8'

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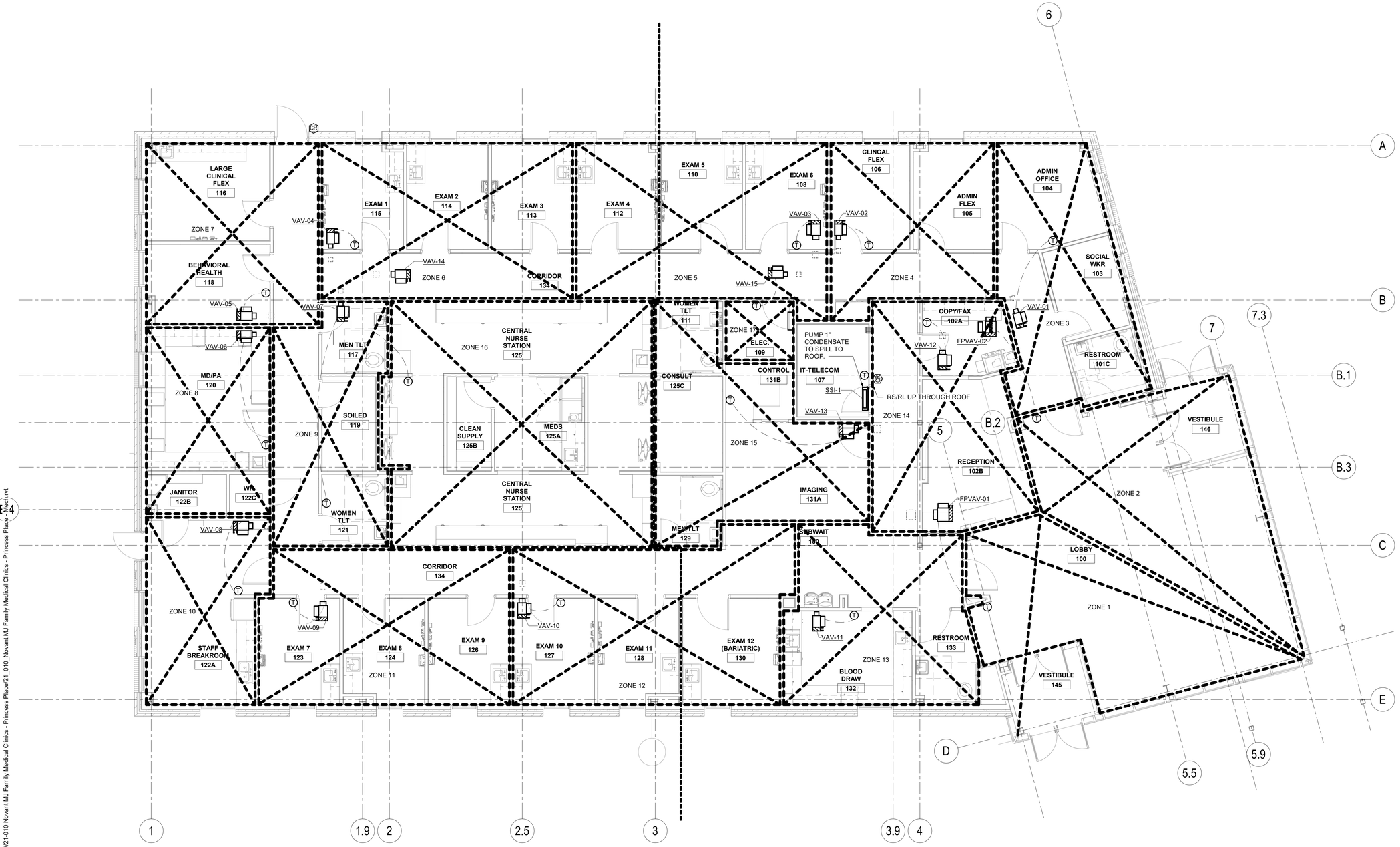
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MECHANICAL DUCTWORK PLAN

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M101

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

2' 0 2' 4' 8'

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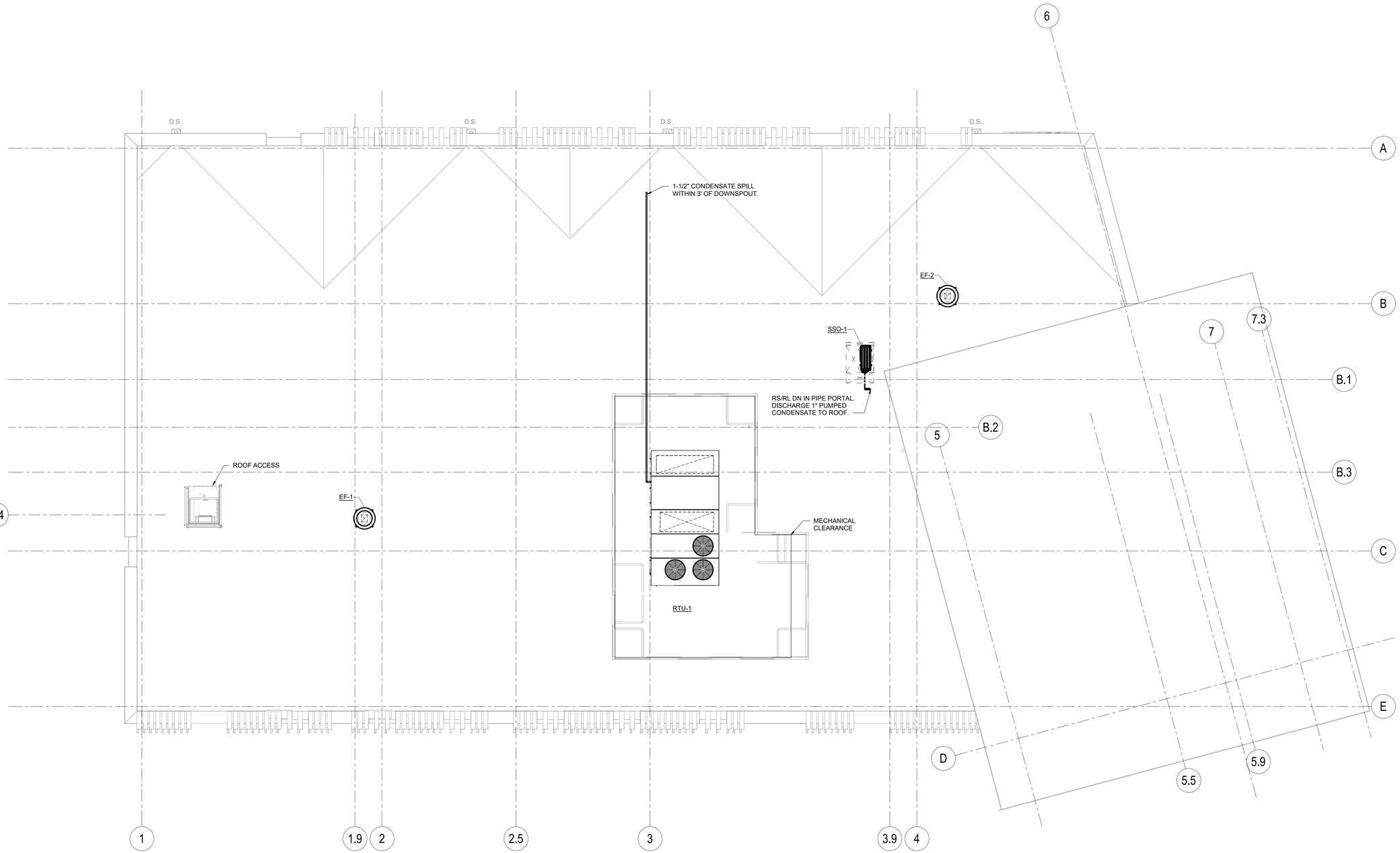
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MECHANICAL PIPING AND ZONING PLAN

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M102



1 M201 MECHANICAL ROOF PLAN
3/16" = 1'-0"

2' 0 2' 4' 8'

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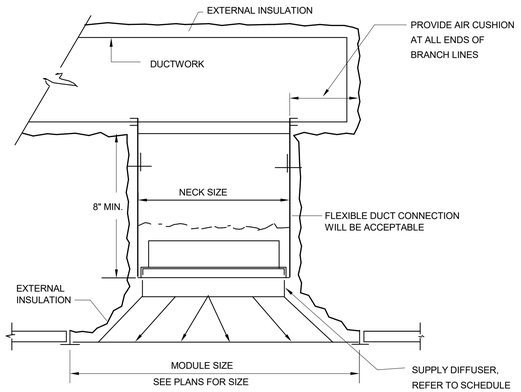
CONSTRUCTION DOCUMENTS

MECHANICAL ROOF PLAN

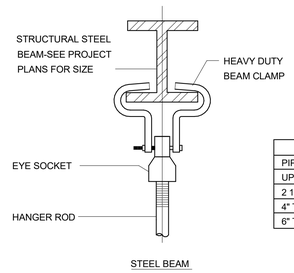
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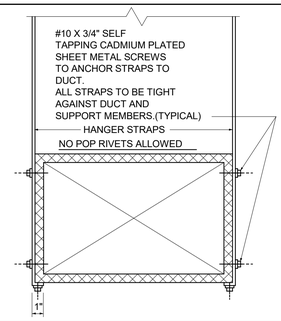


9	CEILING DIFFUSER DETAIL
M400	SCALE: NONE



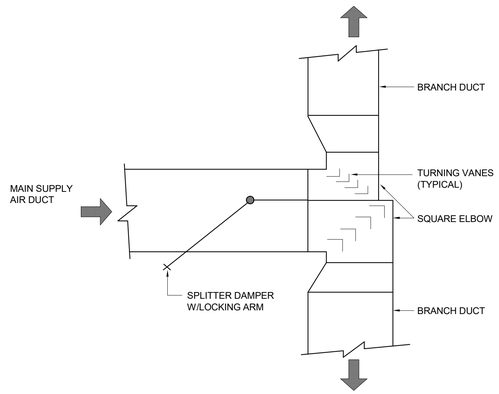
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 12" THRU 3"	1/2" DIA.
4" THRU 5"	5/8" DIA.
6" THRU 12"	7/8" DIA.

6	PIPE HANGER ATTACHMENT
M400	SCALE: NONE

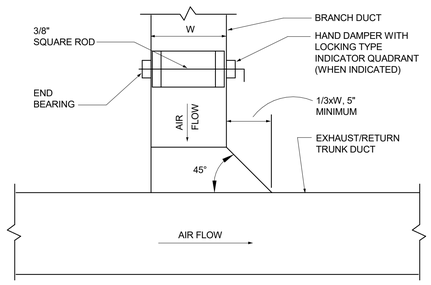


HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
UP TO 34"	1"X18" GAUGE STRAP	NONE REQUIRED	8'-0"

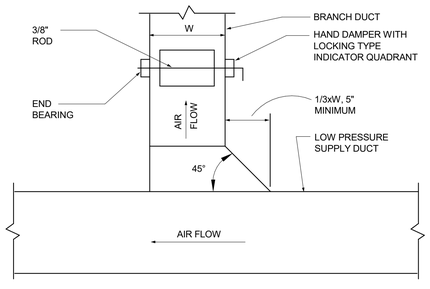
3	DUCT STRAP HANGAR DETAIL
M400	SCALE: NONE



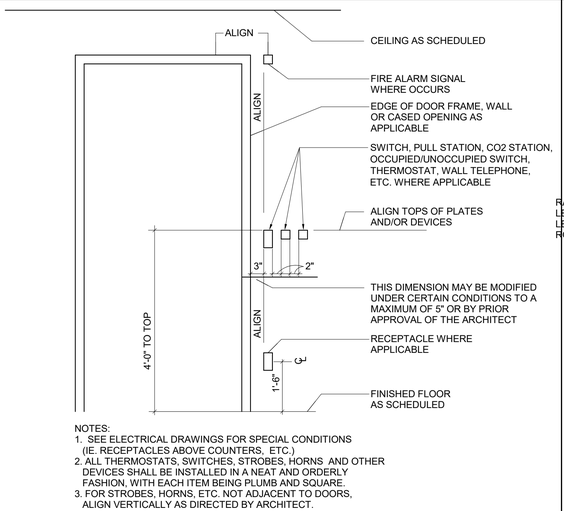
8	HORIZONTAL SUPPLY AIR SPLITTER DAMPER DETAIL
M400	SCALE: NONE



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

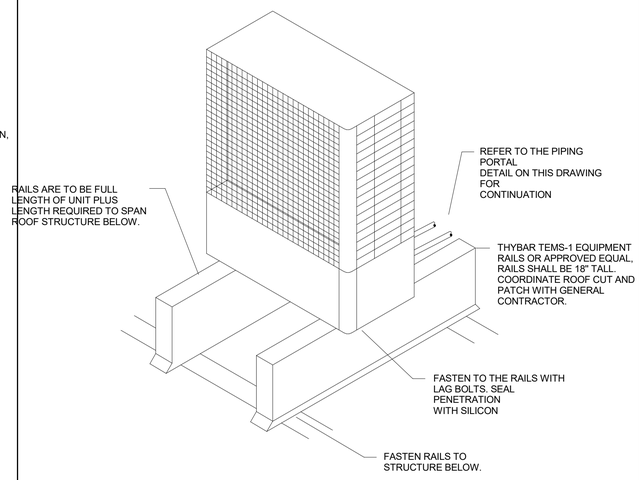


2	RECTANGULAR SUPPLY DUCT TAP TO SINGLE AIR OUTLET
M400	SCALE: NONE

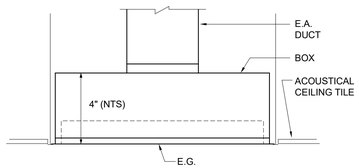


NOTES:
1. SEE ELECTRICAL DRAWINGS FOR SPECIAL CONDITIONS (IE. RECEPTACLES ABOVE COUNTERS, ETC.)
2. ALL THERMOSTATS, SWITCHES, STROBES, HORNS AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.
3. FOR STROBES, HORNS, ETC. NOT ADJACENT TO DOORS, ALIGN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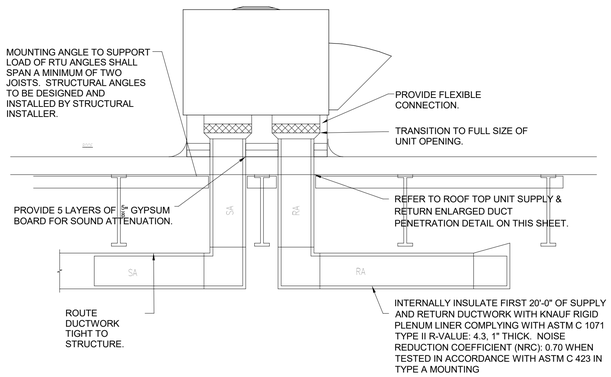
CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

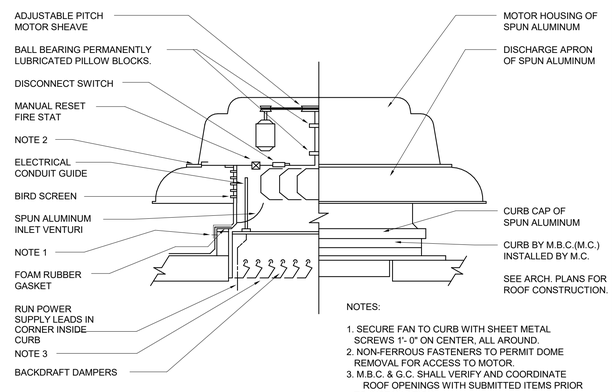
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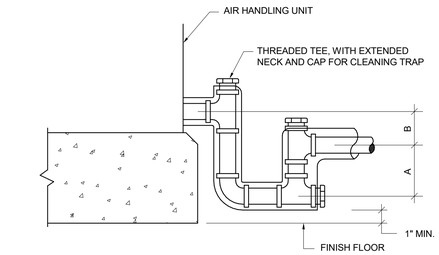
9	ROOF TOP UNIT INSTALLATION DETAIL
M401	SCALE: NONE



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



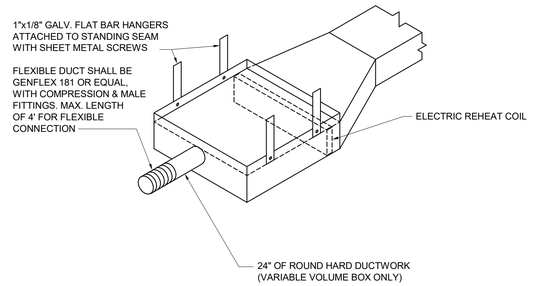
A = GREATER OF 4" OR 1/2" PLUS (BLOWTHRU) AHU TOTAL PRESSURE IN INCHES-WC

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

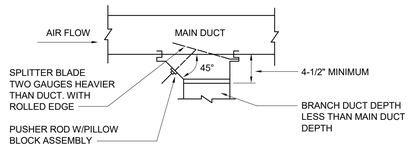
NOTES:

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

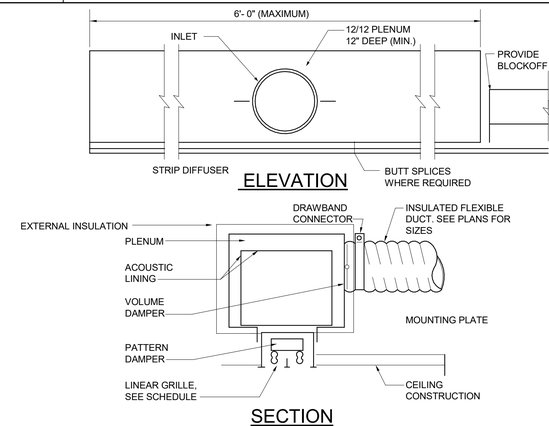
3	RTU CONDENSATE DRAIN DETAIL
M401	SCALE: NONE



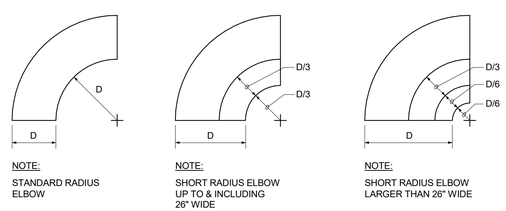
8	SHUTOFF VARIABLE VOLUME BOX DETAIL
M401	SCALE: NONE



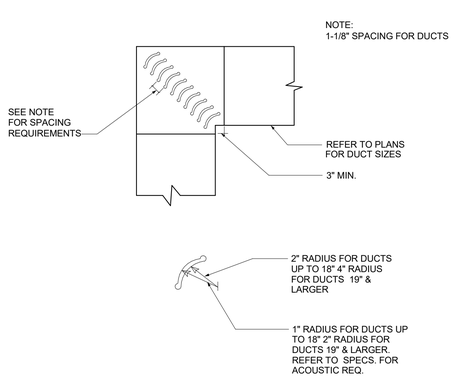
5	SUPPLY AIR SPLITTER DAMPER DETAIL
M401	SCALE: NONE



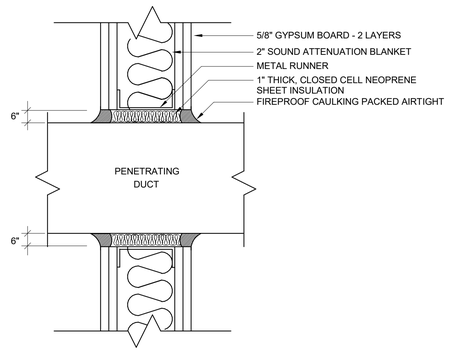
2	STRIP DIFFUSER DETAIL (SUPPLY)
M401	SCALE: NONE



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 6/14/2023

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

ISSUE DATE 06/14/2023
CHECKED MSR
SHEET BY NO
PROJECT NUMBER 21-010

M401

6/15/2023 3:28:15 PM
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.

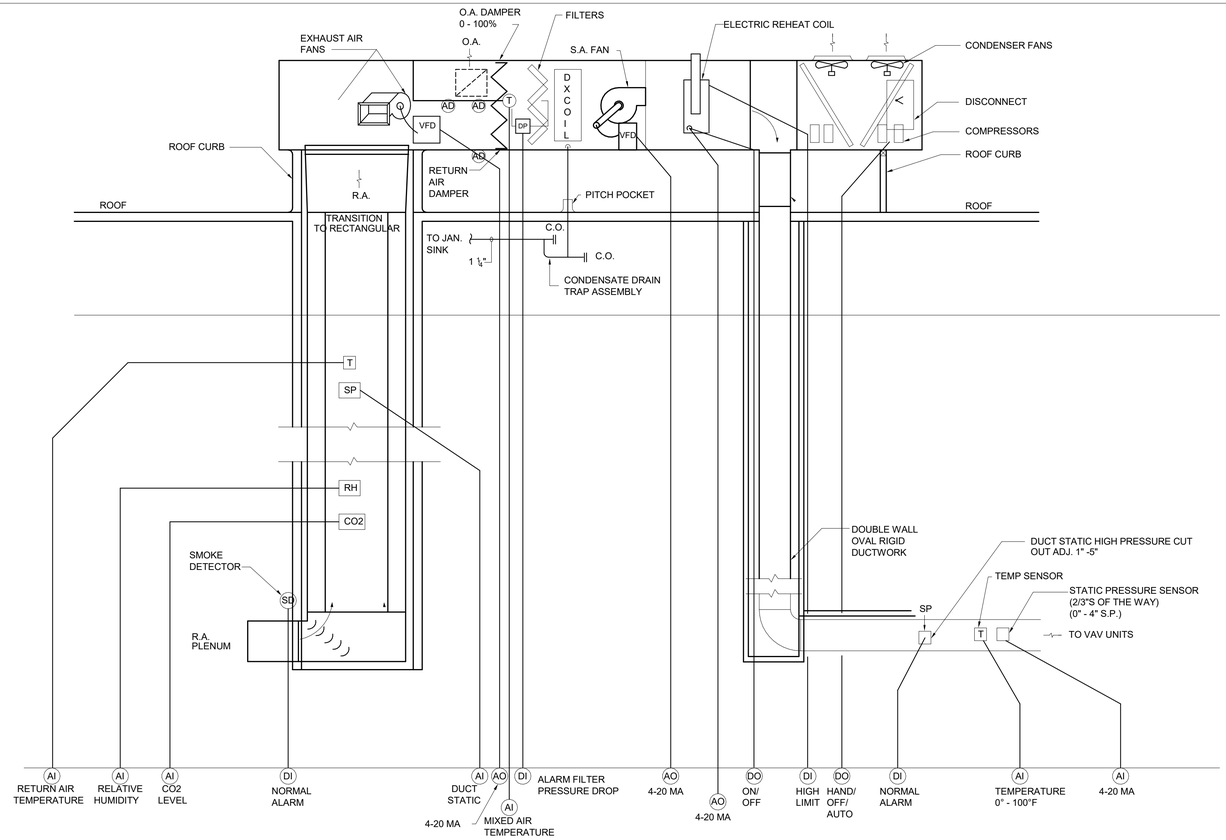
DURING MORNING WARM UP CYCLE, THE O.A. DAMPER SHALL BE CLOSED TO ITS MINIMUM AIR FLOW POSITION.

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.

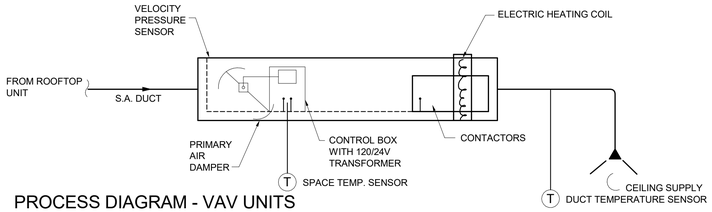


PROCESS DIAGRAM - ROOFTOP A/C UNIT

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

| SYSTEM: VAV TERMINAL UNITS FP/VAV TERMINAL UNITS | 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"	
EXTERIOR IN-GROUND BOX; LEGRAND XB814 SERIES OR APPROVED EQUAL	RECESSED	OB
FLOOR BOX; LEGRAND RFB SERIES OR APPROVED EQUAL	FLOOR	

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)		J
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		J 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	
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	PAY
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
E602	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 AND 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 UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON. 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 THEIR 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 ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

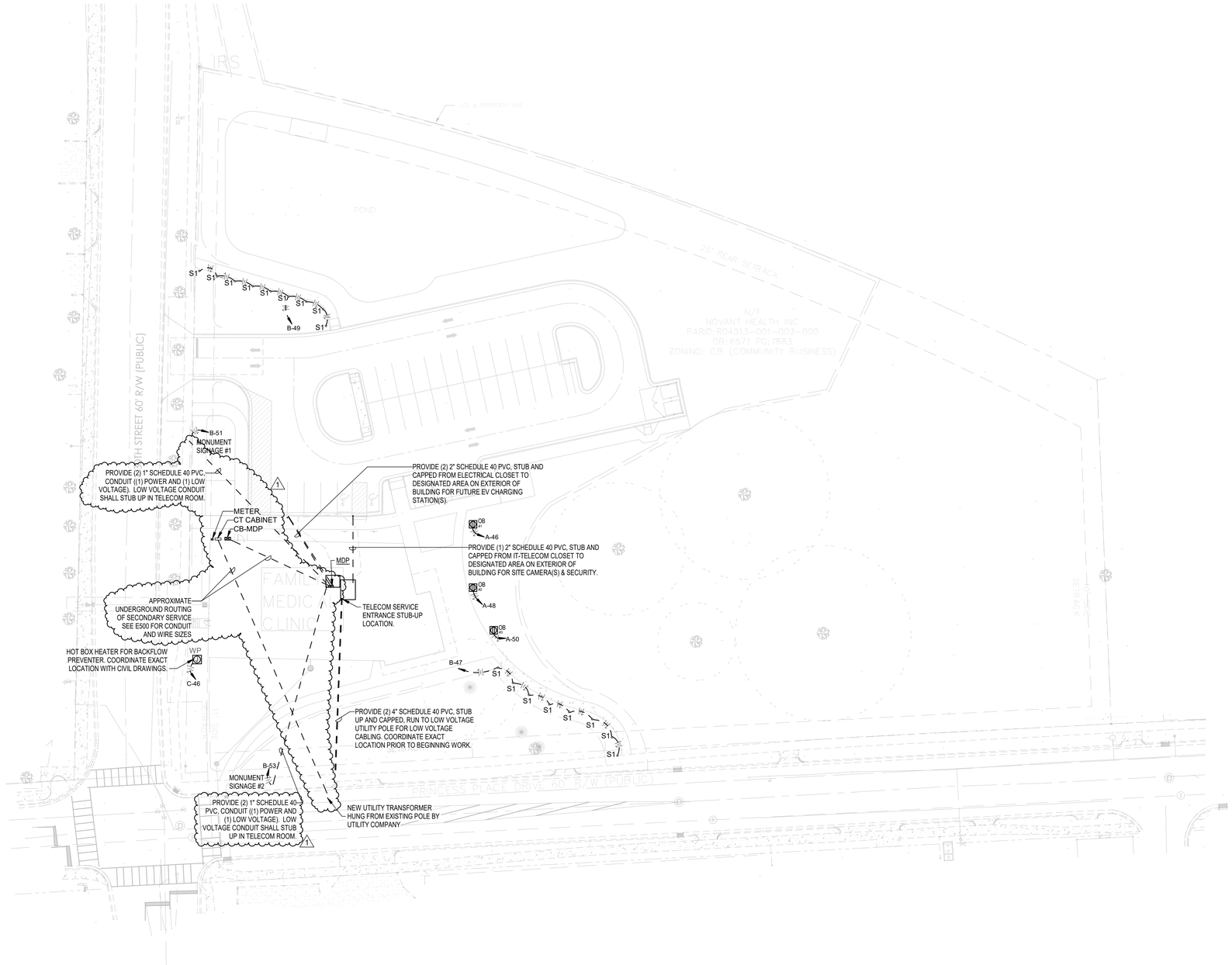
CONSTRUCTION DOCUMENTS

ELECTRICAL LEGEND & GENERAL NOTES

ISSUE DATE 06/14/2023
CHECKED DAB
SHEET BY DEC
PROJECT NUMBER 21-010

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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 SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 08/16/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

ELECTRICAL SITE PLAN

ISSUE DATE 06/14/2023
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-010

E100

8/15/2023 11:48:27 AM BIM 360://21-010 Novant MJ Family Medical Clinics - Princess Place/21_010_Novant MJ Family Medical Clinics - Princess Place - ELEC.rvt

KEY NOTES

1. BUILDING MOUNTED EXTERIOR LIGHTING FIXTURES AND ILLUMINATED SITE SIGNAGE SHALL BE CONTROLLED BY PHOTOCELL WITH DIGITAL TIMERCLOCK OVERRIDE. PHOTOCELL SHALL BE LOCATED ON THE ROOF OF THE BUILDING, FACING NORTH. THE UNIT SHALL HAVE AN UNRESTRICTED VIEW OF THE SKYLINE AND SHALL NOT FACE ANY NIGHTTIME LIGHT SOURCES. SEE DETAIL 8/E600.
2. FIXTURE SHALL BE WIRED THRU INVERTER "INV1" (DUAL-LITE #LG125-AO OR APPROVED EQUAL).
3. FIXTURE SHALL BE WIRED THRU INVERTER "INV2" (DUAL-LITE #LG125-AO OR APPROVED EQUAL).
4. PROVIDE 5-GANG EXTRA DEEP JUNCTION BOX.

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.

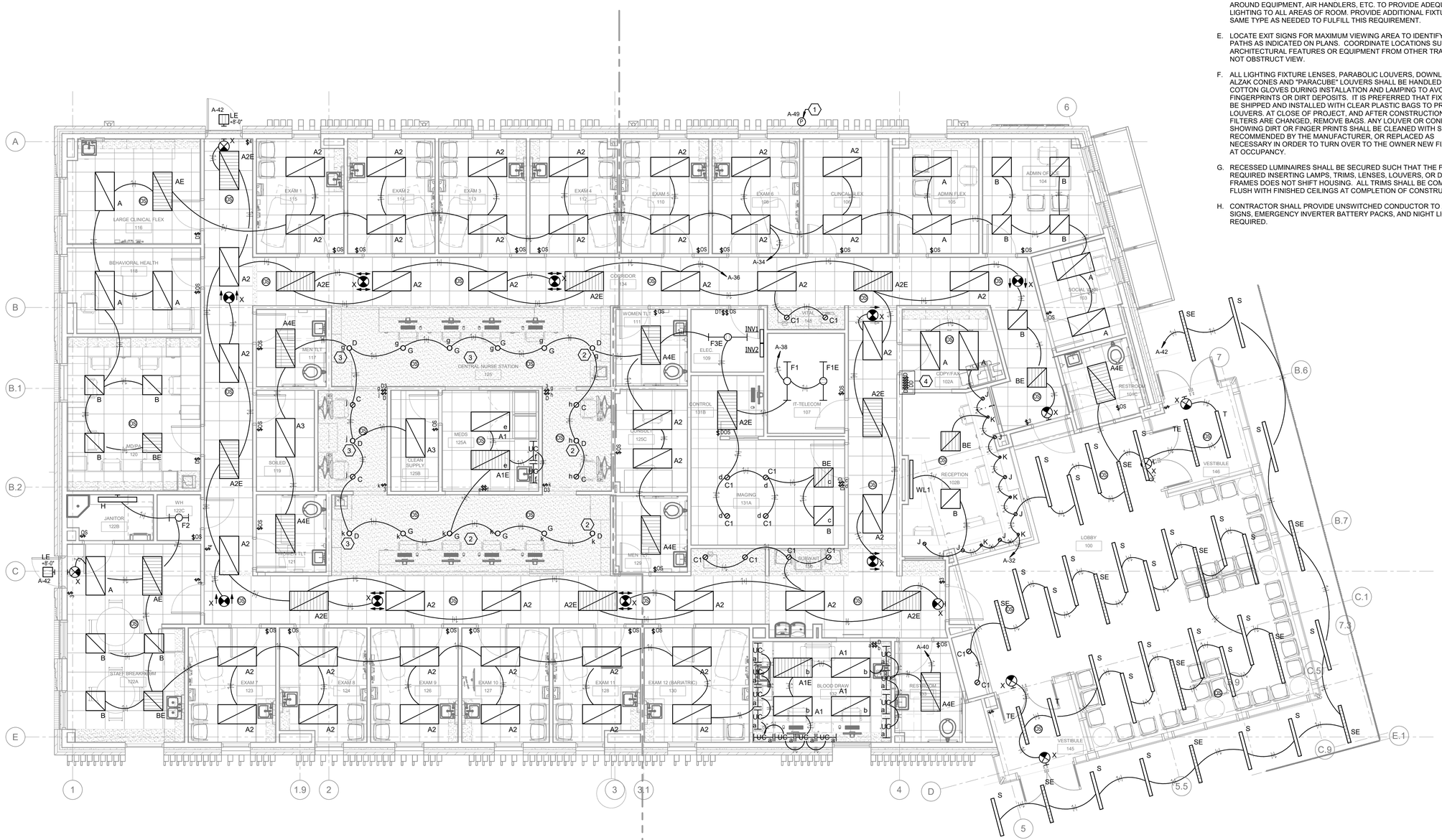
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

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. 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.

G. 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.

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



1 ELECTRICAL FIRST FLOOR PLAN - LIGHTING

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

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C-4556

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - LIGHTING

ISSUE DATE 06/14/2023
CHECKED DAB
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PROJECT NUMBER 21-010

E101

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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. 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.

F. 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.

G. 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.

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

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

J. ALL DEVICES SHALL BE HOSPITAL GRADE.

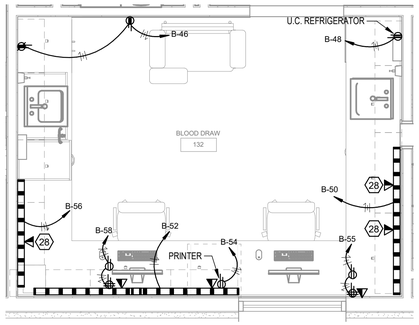
K. PROVIDE ALL GROUNDING PER NFPA 70, 517.

L. ALL BEHAVIORAL HEALTH RECEPTACLES SHALL BE TAMPER RESISTANT AND STAINLESS STEEL FACEPLATES SECURED WITH STAINLESS STEEL TAMPER RESISTANT SEALANT TO ELIMINATE GAPS BETWEEN WALL/CEILINGS AND COVER PLATE.

M. LOW VOLTAGE SYSTEM EQUIPMENT AND DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH VENDOR PRIOR TO ROUGH-IN.

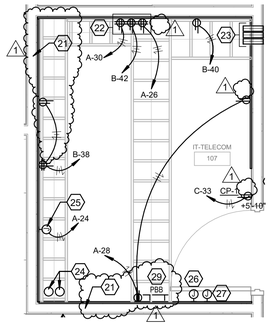
KEY NOTES

1. PROVIDE (1) 3" AND (1) 1-1/4" CONDUIT FROM ABOVE CEILING, DOWN WALL, UNDERSLAB TO DATA BACK BOXES AND RECEPTACLES AT NURSE STATION.
2. PROVIDE BRANCH CIRCUIT TO NURSE STATION FROM ABOVE CEILING, DOWN WALL, AND UNDERSLAB TO RECEPTACLE AT NURSE STATION.
3. PROVIDE WIRELESS ACCESS POINTS WITH (1) 1" CONDUIT AND BACKBOXES. COORDINATE ROUTE OF CONDUIT TO DEMARC AND ACCESS POINT WITH OWNER IT PRIOR TO ROUGH-IN.
4. PROVIDE 3/4" FIRE RETARDANT PLYWOOD MOUNTED 24" AFF TO CEILING ON ALL WALLS. PAINT WHITE, LEAVING UL LISTING STAMPS VISIBLE.
5. PROVIDE RJ45 DUAL JACK PLATE. RACEWAY AND BOXES BY EC. FACEPLATE, JACK AND WIRING BY OTHERS. COORDINATE EXACT LOCATION WITH XRAY VENDOR.
6. NOTE NOT USED.
7. NOTE NOT USED.
8. PROVIDE POWER WITH CONDUIT AND BACKBOXES TO PUSH-BUTTONS FOR MOTORIZED DOOR SYSTEM. COORDINATE EXACT REQUIREMENT WITH VENDOR DRAWINGS.
9. PROVIDE 8"X8"X4" DEEP J-BOX WITH SPLIT REMOVABLE COVER AND 2" GROMMETED OPENING ON COVER. MOUNT J-BOX AT 12" AFF. PROVIDE 4 #1/0, 1#6G IN 1-1/2"C FROM MAIN CIRCUIT BREAKER TO J-BOX. PROVIDE 4' LIQUID TIGHT FMC WITH 90 DEGREES CONNECTORS AT EACH END AND CONNECT TO J-BOX. NEATLY COIL 6' WIRE TAILS FOR EQUIPMENT CONNECTION BY OTHERS. REFER TO DETAIL ON SHEET E602. COORDINATE WITH X-RAY VENDOR FOR EXACT LOCATION OF J-BOX.
10. NOTE NOT USED.
11. NOTE NOT USED.
12. NOTE NOT USED.
13. NOTE NOT USED.
14. NOTE NOT USED.
15. NOTE NOT USED.
16. NOTE NOT USED.
17. NOTE NOT USED.
18. COORDINATE EXACT FLOOR LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
19. COORDINATE EXACT TV LOCATIONS AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
20. COORDINATE EXACT LOCATION OF UNDERCOUNTER REFRIGERATOR PRIOR TO ROUGH-IN.
21. LEAD-LINED WALL - NO THROUGH PENETRATIONS ARE ALLOWED.
22. DEVICES SHALL BE STAGGERED AND MOUNTED AT 87" A.F.F. TO 93" A.F.F.
23. PROVIDE THREE (3) EZ PATH DEVICE EZD44S2. USE WITH GANG PLATE KIT EZP544W. COORDINATE EXACT LOCATION WITH LOW VOLTAGE VENDOR PRIOR TO BEGINNING WORK.
24. SITE TELECOM CONDUIT ENTRANCE STUB-UP LOCATION. SEE E100 FOR PROPOSED CONDUIT ROUTE. COORDINATE EXACT ROUTE WITH CIVIL/ LANDSCAPE PRIOR TO BEGINNING WORK.
25. ACCESS CONTROL PANEL PROVIDED BY OTHERS. PROVIDE BOX AND CONDUIT TO CEILING. COORDINATE THE EXACT LOCATION OF ACCESS CONTROL WITH VENDOR PANEL PRIOR TO ROUGH-IN.
26. TEMPERATURE SENSOR BY OTHERS. PROVIDE BOX AND CONDUIT TO CEILING.COORDINATE EXACT LOCATION AND CONDUIT PATH WITH BAS VENDOR PRIOR TO ROUGH-IN.
27. SECURITY CAMERA - MOUNTED ABOVE DOOR. COORDINATE BOX LOCATION AND REQUIREMENTS WITH NOVANT PUBLIC SAFETY AND LOW VOLTAGE VENDOR PRIOR TO BEGINNING WORK.
28. DEVICE SHALL BE MOUNTED 4" ABOVE THE WIREMOLD.
29. TELECOM GROUNDING BAR 'PBB' - MOUNT AT 7'-6" A.F.F. USE EATON B-LINE #SBTGB. BOND TO MAIN ELECTRICAL GROUND 'MGB' AND BUILDING STEEL WITH #6 AWG, MINIMUM. PROVIDE #6 GROUND WIRE FROM OWNER PROVIDED DATA RACKS TO GROUNDING BUS BAR (PBB). COIL 10' OF WIRE.



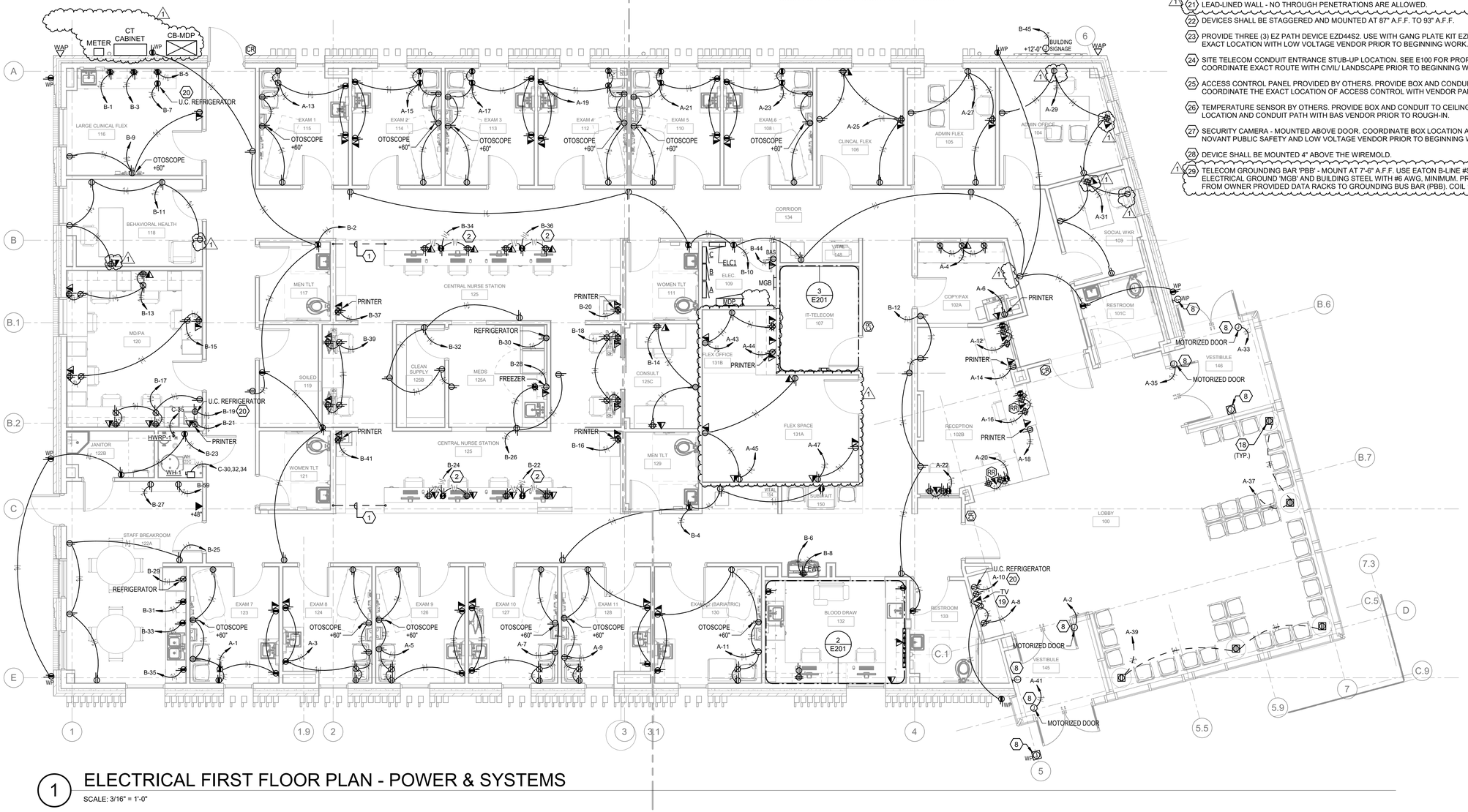
2 ENLARGED PLAN - ROOM 132

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



3 ENLARGED PLAN - ROOM 107

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



1 ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS

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

neighboring concepts

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C-4556

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 08/16/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

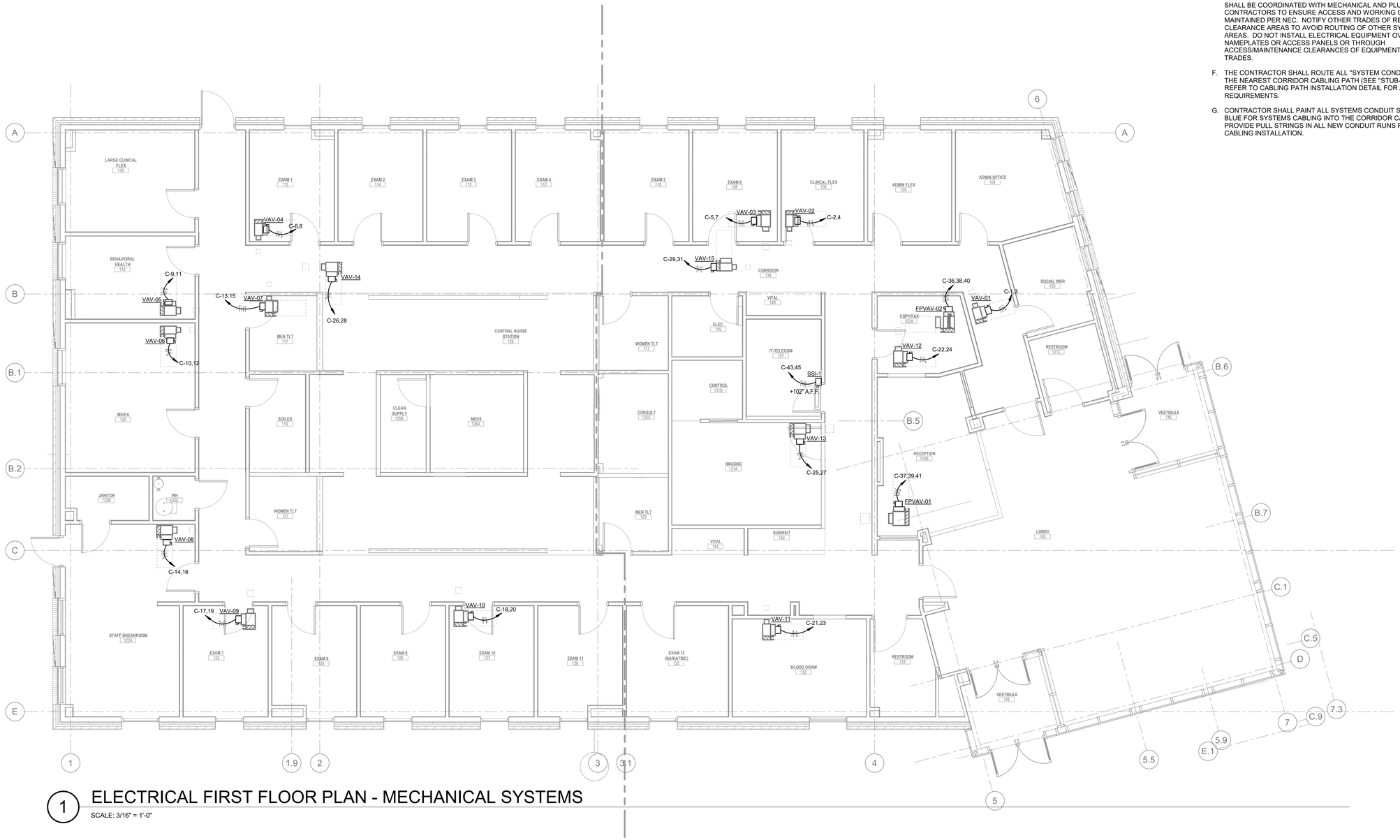
CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - POWER & SYSTEMS

ISSUE DATE 06/14/2023
CHECKED DAB
SHEET BY DEG
PROJECT NUMBER 21-010

E201

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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. 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.

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C-4556

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL FIRST FLOOR PLAN - MECHANICAL SYSTEMS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

E301

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KEY NOTES

1. STRUT MOUNTED RECEPTACLE. COORDINATE MOUNTING WITH MECHANICAL EQUIPMENT LOCATION AND EQUIPMENT PAD.

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.

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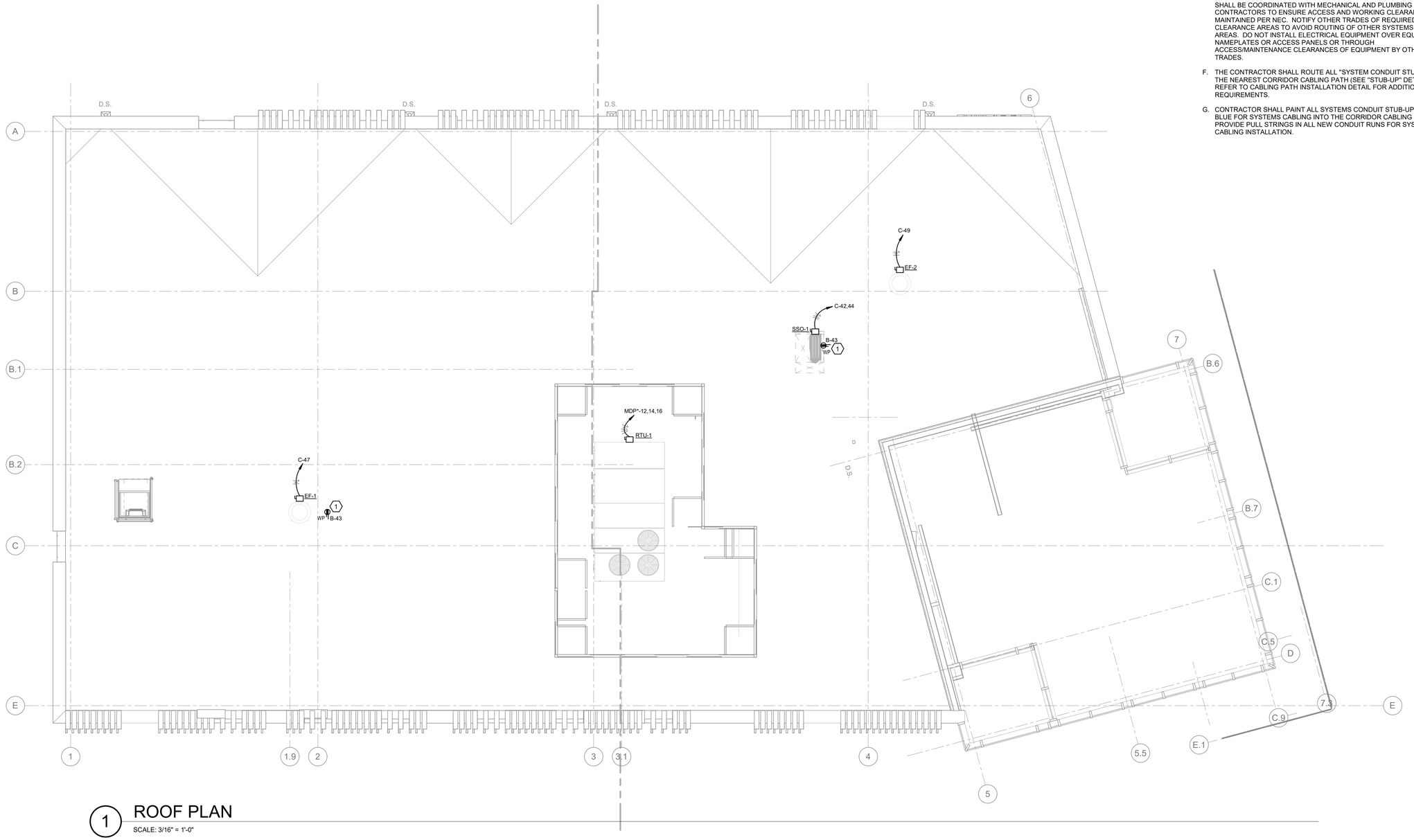
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1 ROOF PLAN

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

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C-4556

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL ROOF PLAN - MECHANICAL SYSTEMS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

E302

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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	4617	32	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	2253	16	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	2638.12	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 #LCL2-40ML-EDU	YES	PENDANT	LED / 4000	2849	24	120	BOTTOM OF FIXTURE SHALL BE 9'-0" A.F.F.
F3E	4' PENDANT STRIP FIXTURE. BATTERY BACKUP.	COLUMBIA #LCL4-40ML-EDU-ELL14	YES	PENDANT	LED / 4000	5411	42	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-SL06L-DM1/LTR-3RD-T-SL40K8MD-SS	YES	RECESSED	LED / 4000	647.41	8	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	2.5" RECESSED SLOT FIXTURE	ALW SP2.5R/F-[CEILING TYPE]-S-LOW-80/4000-0/10V/0%-[LENS]-[FINISH]-UNV	YES	RECESSED	LED / 4000	2505	17	120	
S1	13.8" STRAIGHT SQUARE BOLLARD	INTERLUX # [FINISH]-AE-14-8ID-40-AS-[ACCESSORY]	YES	SURFACE	LED / 4000	595	8	120	
SE	2.5" RECESSED SLOT FIXTURE. BATTERY BACKUP.	ALW SP2.5R/F-[CEILING TYPE]-S-LOW-80/4000-0/10V/0%-[LENS]-[FINISH]-UNV-EMB	YES	RECESSED	LED / 4000	2505	17	120	
T	PENDANT SLOT FIXTURE	ALW SUPERPLANE SP4	YES	PENDANT	LED / 4000	-	16	120	
TE	PENDANT SLOT FIXTURE	ALW SUPERPLANE SP4 WITH BATTERY	YES	PENDANT	LED / 4000	-	16	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	__4718__ vs. __6302__

☐ WHOLE BUILDING ☒ SPACE BY SPACE

TOTAL EXTERIOR WATTAGE SPEC'D VS. ALLOWED __377__ vs. __1482__

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

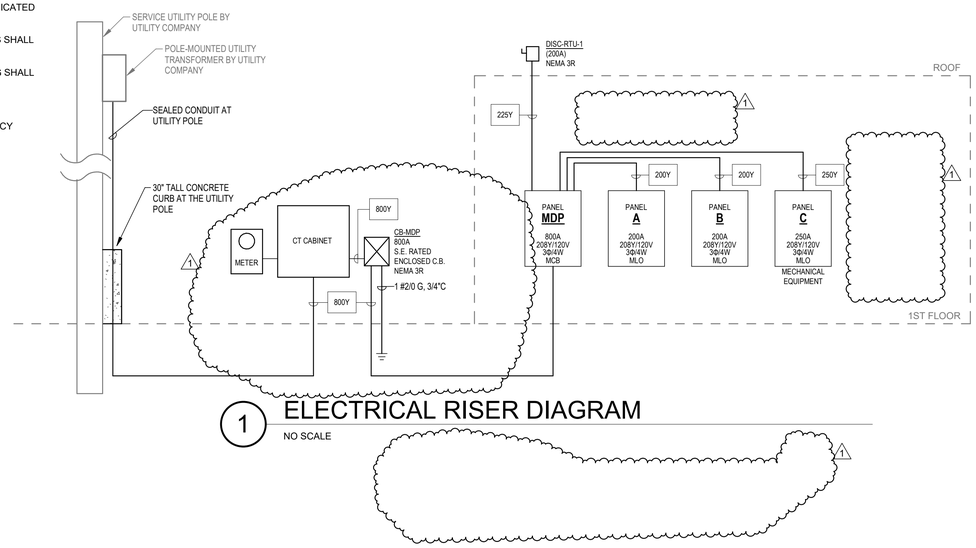
NOTE: ALL CONDUCTORS ARE COPPER, THWN/THHN.

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

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C-4556

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 08/16/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

CONSTRUCTION DOCUMENTS

ELECTRICAL RISER DIAGRAM & SCHEDULES

ISSUE DATE 06/14/2023

CHECKED DAB

SHEET BY DEG

PROJECT NUMBER 21-010

E500

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

8/15/2023 11:48:34 AM

PANELBOARD AND WIRING SCHEDULE

PANEL: MDP* | **MAINS TYPE:** MCB** | **AVAILABLE FAULT CURRENT:** 12.9KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **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	15.8 16.0			2								
	PANEL "A" - RM 109	SEE	RISER	DIAG	AM	200	3	3		13.4 16.1		4	3	200	SEE	RISER	DIAG	RAM	PANEL "B" - RM 109	
								5			11.6 12.0	6								
								7	20.1 --			8	1	--	--	--	--	--	SPACE	
	PANEL "C" - RM 109	SEE	RISER	DIAG	AM	250	3	9		16.9 --		10	1	--	--	--	--	--	SPACE	
								11			17.4 18.8	12								
	ELC1 - RM 109	#12	#12	3/4"		20	1	13	0.1 18.8			14	3	200		2"	#6	#3/0	RTU-1 - ROOF	
	SPACE	--	--	--	--	--	1	15		-- 18.8		16								
	SPACE	--	--	--	--	--	1	17			-- 0.0	18	2	40		--	--	--	EV CHARGER 1A (FUTURE)	****
	SPACE	--	--	--	--	--	1	19	-- 0.0			20								
	SPACE	--	--	--	--	--	1	21		-- 0.0		22	2	40		--	--	--	EV CHARGER 1B (FUTURE)	****
	SPACE	--	--	--	--	--	1	23			-- 0.0	24								
	SPACE	--	--	--	--	--	1	25	-- --			26	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	27		-- --		28	1	--	--	--	--	--	SPACE	
	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):	70.8 kVA	65.2 kVA	59.8 kVA								
									TOTAL CURRENT (A):	597 A	550 A	498 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	
EQUIP	12250 VA	100.00%	12250 VA	TOTAL CONNECTED LOAD:	195834 VA
HVAC	104140 VA	100.00%	104140 VA	TOTAL ESTIMATED DEMAND:	164064 VA
LTNG	5905 VA	100.00%	5905 VA	TOTAL CONNECTED CURRENT:	544 A
REC	73540 VA	56.80%	41770 VA	TOTAL ESTIMATED DEMAND CURRENT:	455 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.UNLESS INDICATED OTHERWISE.
* PANEL SHALL HAVE 100% RATED BUS.
*** 100% RATED BREAKER HALL BE PROVIDED WITH SHUNT TRIP ACCESSORY CAPABILITIES.
**** BREAKER SHALL BE 100% RATED.

PANELBOARD AND WIRING SCHEDULE

PANEL: B | **MAINS TYPE:** MLO | **AVAILABLE FAULT CURRENT:** 10.5KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **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
	REC - RM 116	#12	#12	3/4"		20	1	1	0.2 1.3			2	1	20		3/4"	#12	#12	REC - RM 117, 119, 121 & 134	
	REC - RM 116	#12	#12	3/4"		20	1	3		0.2 0.7		4	1	20		3/4"	#12	#12	REC - RM 154, 150, 129 & 134	
	REC - RM 116	#12	#12	3/4"		20	1	5			0.2 0.0	6	1	20	GF	3/4"	#12	#12	EWC - BOTTLE FILLER - RM 134	
	REC - U.C. REFRIG - RM 116	#12	#12	3/4"	GF	20	1	7	1.0 1.0			8	1	20	GF	3/4"	#12	#12	REC - EWC - RM 134	
	REC - RM 116	#12	#12	3/4"		20	1	9		0.5 1.8		10	1	20		3/4"	#12	#12	REC - RM 109, 134, 148 & 101C	
	REC - RM 118	#12	#12	3/4"		20	1	11			1.1 1.1	12	1	20		3/4"	#12	#12	REC - RM 133, 134, 102A & 102B	
	REC - RM 120	#12	#12	3/4"		20	1	13	1.1 0.9			14	1	20		3/4"	#12	#12	REC - RM 125C	
	REC - RM 120	#12	#12	3/4"		20	1	15		1.1 1.0		16	1	20		3/4"	#12	#12	REC - PRINTER - RM 125	
	REC - RM 120	#12	#12	3/4"		20	1	17			1.3 1.4	18	1	20		3/4"	#12	#12	REC - RM 125	
	REC - U.C. REFRIG - RM 120	#12	#12	3/4"	GF	20	1	19	1.0 1.0			20	1	20		3/4"	#12	#12	REC - PRINTER - RM 125	
	REC - PRINTER - RM 120	#12	#12	3/4"		20	1	21		1.0 0.9		22	1	20		3/4"	#12	#12	REC - RM 125	
	REC - RM 122B, 122C	#12	#12	3/4"		20	1	23			0.7 0.9	24	1	20		3/4"	#12	#12	REC - RM 125	
	REC - RM 122A	#12	#12	3/4"		20	1	25	0.7 0.7			26	1	20		3/4"	#12	#12	REC - RM 125, 125A	
	REC - RM 122A	#12	#12	3/4"		20	1	27		0.2 1.0		28	1	20		3/4"	#12	#12	REC - FREEZER - RM 125A	
	REC - REFRIG - RM 122A	#12	#12	3/4"	GF	20	1	29			0.2 1.0	30	1	20	GF	3/4"	#12	#12	REC - REFRIG - RM 125A	
	REC - RM 122A	#12	#12	3/4"		20	1	31	0.2 0.9			32	1	20		3/4"	#12	#12	REC - RM 125, 125A, 125B	
	REC - RM 122A	#12	#12	3/4"		20	1	33		0.2 0.9		34	1	20		3/4"	#12	#12	REC - RM 125	
	REC - RM 122A	#12	#12	3/4"		20	1	35			0.2 0.9	36	1	20		3/4"	#12	#12	REC - RM 125	
	REC - PRINTER - RM 125	#12	#12	3/4"		20	1	37	1.0 0.7			38	1	20		3/4"	#12	#12	REC - RM 107	
	REC - RM 125	#12	#12	3/4"		20	1	39		1.4 0.4		40	1	20		3/4"	#12	#12	REC - RM 107	
	REC - PRINTER - RM 125	#12	#12	3/4"		20	1	41			1.0 0.4	42	1	20		3/4"	#12	#12	REC - RM 107	
	REC - ROOF	#12	#12	3/4"		20	1	43	0.4 0.2			44	1	20		3/4"	#12	#12	REC - BAS - RM 109	
	BUILDING SIGNAGE -...	#10	#10	3/4"	G3	20	1	45		1.9 0.4		46	1	20		3/4"	#12	#12	REC - RM 132	
	LTNG - BOLLARDS - EXTERIOR	#10	#10	3/4"	G3	20	1	47			0.2 0.2	48	1	20		3/4"	#12	#12	REC - U.C. REFRIG - RM 132	
	LTNG - BOLLARDS - EXTERIOR	#10	#10	3/4"	G3	20	1	49	0.2 2.0			50	1	20	GF	3/4"	#12	#12	PLUGMOLD - RM 132	
	SITE SIGNAGE #1 - EXTERIOR	#10	#10	3/4"	G3	20	1	51		1.0 1.0		52	1	20		3/4"	#12	#12	PLUGMOLD - RM 132	
	SITE SIGNAGE #2 - EXTERIOR	#10	#10	3/4"	G3	20	1	53			1.0 0.2	54	1	20		3/4"	#12	#12	REC - PRINTER - RM 132	
	REC - RM 132	#12	#12	3/4"		20	1	55	0.5 1.0			56	1	20	GF	3/4"	#12	#12	PLUGMOLD - RM 132	
	SPARE	--	--	--		20	1	57		0.0 0.5		58	1	20					REC - RM 132	
	REC - RM 122A					20	1	59			0.2 0.0	60	1	20		--	--	--	SPARE	
									TOTAL LOAD (kVA):	16.0 kVA	16.1 kVA	12.0 kVA								
									TOTAL CURRENT (A):	138 A	139 A	100 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	
EQUIP	3920 VA	100.00%	3920 VA	TOTAL CONNECTED LOAD:	44080 VA
LTNG	442 VA	100.00%	442 VA	TOTAL ESTIMATED DEMAND:	29210 VA
REC	39740 VA	62.58%	24870 VA	TOTAL CONNECTED CURRENT:	122 A
				TOTAL ESTIMATED DEMAND CURRENT:	81 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	MOCP	FURNISHED BY	INSTALLED BY
CP-1	CONDENSATE PUMP	20A MOTOR RATED TOGGLE SWITCH	120	1	-	0.18	1.875	20	MC	EC
EF-1	EXHAUST FAN	20A MOTOR RATED TOGGLE SWITCH	120	1	1/8	0.35	3.625	20	MC	EC
EF-2	EXHAUST FAN	20A MOTOR RATED TOGGLE SWITCH	120	1	1/8	0.35	3.625	20	MC	EC
FPVAV-01	FAN POWERED AIR TERMINAL	30A/3P/20AF/3R	208	3	-	4.32	15	20	MC	EC
FPVAV-02	FAN POWERED AIR TERMINAL	30A/3P/30AF/3R	208	3	-	8.10	22.5	30	MC	EC
HWRP-1	HOT WATER RECIRCULATION	20A MOTOR RATED TOGGLE SWITCH	120	1	1/6	0.53	5.5	20	PC	EC (WIRED)
RTU-1	ROOF TOP UNIT	400A/3P/200AF/3R	208	3	-	56.52	175	200	MC	EC
SSI-1	SPLIT SYSTEM - INDOOR UNIT	30A/2P/15AF/1	208	2	-	0.25	1.2	15	MC	EC
SSO-1	SPLIT SYSTEM - OUTDOOR UNIT	30A/2P/20AF/3R	208	2	-	3.12	15	20	MC	EC
VAV-01	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	1.87	11.25	15	MC	EC
VAV-02	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	1.50	9	15	MC	EC
VAV-03	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.25	13.5	20	MC	EC
VAV-04	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.25	13.5	20	MC	EC
VAV-05	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.25	13.5	20	MC	EC
VAV-06	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	1.50	9	15	MC	EC
VAV-07	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	0.75	4.5	15	MC	EC
VAV-08	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.62	15.75	20	MC	EC
VAV-09	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.62	15.75	20	MC	EC
VAV-10	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/20AF/1	208	2	-	2.62	15.75	20	MC	EC
VAV-11	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	1.50	9	15	MC	EC
VAV-12	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	1.87	11.25	15	MC	EC
VAV-13	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/25AF/1	208	2	-	3.00	18	25	MC	EC
VAV-14	VARIABLE VOLUME AIR TERMINAL UNIT	30A/3P/15AF/1	208	2	-	3.60	12.5	15	MC	EC
VAV-15	VARIABLE VOLUME AIR TERMINAL UNIT	30A/2P/15AF/1	208	2	-	0.75	4.5	15	MC	EC
WH-1	ELECTRIC WATER HEATER	30A/3P/25AF/1	208	3	-	6.00	20.83	25	PC	EC

PANELBOARD AND WIRING SCHEDULE

PANEL: A | **MAINS TYPE:** MLO | **AVAILABLE FAULT CURRENT:** 10.5KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **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
	REC - RM 123	#12	#12	3/4"		20	1	1	1.3 0.0			2	1	20		3/4"	#12	#12	AUTO DOOR - RM 145	
	REC - RM 124	#12	#12	3/4"		20	1	3		1.3 0.5		4	1	20		3/4"	#12	#12	REC - 102A	
	REC - RM 126	#12	#12	3/4"		20	1	5			1.3 1.0	6	1	20		3/4"	#12	#12	REC - PRINTER - RM 102A	
	REC - RM 127	#12	#12	3/4"		20	1	7	1.3 1.7			8	1	20		3/4"	#12	#12	REC - RM 100	
	REC - RM 128	#12	#12	3/4"		20	1	9		1.3 1.0		10	1	20		3/4"	#12	#12	REC - U.C. REFRIG - RM 100	
	REC - RM 130	#12	#12	3/4"		20	1	11			1.3 0.5	12	1	20		3/4"	#12	#12	REC - RM 102B	
	REC - RM 115	#12	#12	3/4"		20	1	13	1.3 1.0			14	1	20		3/4"	#12	#12	REC - PRINTER - RM 102B	
	REC - RM 114	#12	#12	3/4"		20	1	15		1.3 0.5		16	1	20		3/4"	#12	#12	REC - RM 102B	
	REC - RM 113	#12	#12	3/4"		20	1	17			1.3 1.0	18	1	20		3/4"	#12	#12	REC - PRINTER - RM 102B	
	REC - RM 112	#12	#12	3/4"		20	1	19	1.3 0.5			20	1	20		3/4"	#12	#12	REC - RM 102B	
	REC - RM 110	#12	#12	3/4"		20	1	21		1.3 0.5		22	1	20		3/4"	#12	#12	REC - RM 102B	
	REC - RM 108	#12	#12	3/4"		20	1	23			1.3 0.4	24	1	20		3/4"	#12	#12	ACCESS CONTROL PANEL -...	
	REC - RM 106	#12	#12	3/4"		20	1	25	0.9 0.4			26	1	20		3/4"	#12	#12	REC - RM 107	
	REC - RM 105	#12	#12	3/4"		20	1	27		0.9 0.5		28	1	20		3/4"	#12	#12	REC - RM 107	
	REC - RM 104	#12	#12	3/4"		20	1	29			0.9 0.4	30	1	20		3/4"	#12	#12	REC - RM 107	
	REC - RM 103	#12	#12	3/4"		20	1	31	1.1 0.9			32	1	20		3/4"	#12	#12	LTNG	
	AUTO DOOR - RM 146	#12	#12	3/4"		20	1	33		0.0 0.9		34	1	20		3/4"	#12	#12	LTNG	
	AUTO DOOR - RM 146	#12	#12	3/4"		20	1	35			0.0 1.0	36	1	20		3/4"	#12	#12	LTNG	
	REC (FLOOR) - RM 100	#12	#12	3/4"		20	1	37	0.7 1.3			38	1	20		3/4"	#12	#12	LTNG	
	REC (FLOOR) - RM 100	#12	#12	3/4"		20	1	39		1.1 1.0		40	1	20		3/4"	#12	#12	LTNG	
	AUTO DOOR - RM 145	#12	#12	3/4"		20	1	41			0.0 0.3	42	1	20		3/4"	#12	#12	LTNG - EXTERIOR	
	REC - RM 131B	#12	#12	3/4"		20	1	43	0.9 1.0			44	1	20		3/4"	#12	#12	REC - PRINTER - RM 131B	
	REC - RM 131A	#12	#12	3/4"		20	1	45		0.9 0.4		46	1	20		3/4"	#10	#10	REC - IN-GROUND #1 -...	
	REC - RM 131A	#12	#12	3/4"		20	1	47			0.7 0.4	48	1	20		3/4"	#10	#10	REC - IN-GROUND #2 -...	
	EXT. LTNG (POLE)	#12	#12	3/4"	G3	20	1	49	0.1 0.4			50	1	20		3/4"	#10	#10	REC - IN-GROUND #3 -...	
	SPARE	--	--	--		20	1	51		0.0 0.0		52	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	53			0.0 0.0	54	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	55	0.0 0.0			56	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	57		0.0 0.0		58	1	20		--	--	--	SPARE	
	SPARE	--	--	--		20	1	59			0.0 0.0	60	1	20		--	--	--	SPARE	
									TOTAL LOAD (kVA):	15.8 kVA	13.4 kVA	11.6 kVA								
									TOTAL CURRENT (A):	134 A	114 A	96 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	
EQUIP	1500 VA	100.00%	1500 VA	TOTAL CONNECTED LOAD:	40784 VA
LTNG	5484 VA	100.00%	5484 VA	TOTAL ESTIMATED DEMAND:	28884 VA
REC	33800 VA	64.79%	21900 VA	TOTAL CONNECTED CURRENT:	113 A
				TOTAL ESTIMATED DEMAND CURRENT:	80 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:** MLO | **AVAILABLE FAULT CURRENT:** 10.5KAIC
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **PANEL INTERRUPTING RATING:** 42KAIC
AMPERES: 250 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
	VAV-01 - RM 134	#12	#12	3/4"		15	2	1	0.9 0.8			2	2	15		3/4"	#12	#12	VAV-02 - RM 106	
								3		0.9 0.8		4								
	VAV-03 - RM 108	#12	#12	3/4"		20	2	5			1.1 1.1	6	2	20		3/4"	#12	#12	VAV-04 - RM 115	
								7	1.1 1.1			8								
	VAV-05 - RM 118	#12	#12	3/4"		20	2	9		1.1 0.8		10	2	15		3/4"	#12	#12	VAV-06 - RM 120	
								11			1.1 0.8	12								
	VAV-07 - RM 117	#12	#12	3/4"		15	2	13	0.4 1.3			14	2	20		3/4"	#12	#12	VAV-08 - RM 122A	
								15		0.4 1.3		16								
	VAV-09 - RM 123	#12	#12	3/4"		20	2	17			1.3 1.3	18	2	20		3/4"	#12	#12	VAV-10 - RM 127	
								19	1.3 1.3			20								
	VAV-11 - RM 132	#12	#12	3/4"		15	2	21		0.8 0.9		22	2	15		3/4"	#12	#12	VAV-12 - RM 102A	
								23			0.8 0.9	24								
	VAV-13 - RM 131A	#10	#10	3/4"		25	2	25	1.5 1.8			26	2	20		3/4"	#12	#12	VAV-14 - RM 134	
								27		1.5 1.8		28								
	VAV-15 - RM 134	#12	#12	3/4"		15	2	29			0.4 2.0	30								
	REC - CP-1 - RM 107	#12	#12	3/4"		20	1	31	0.4 2.0			32	3	25		3/4"	#10	#10	WATER HEATER - WH-1 - RM 122C	
	HWRP-1 - RM 122C	#12	#12	3/4"		20	1	33		0.2 2.0		34								
								35			0.5 2.7	36								
	FPVAV-01 - RM 102B	#12	#12	3/4"		20	3	37	1.4 2.7			38	3	30		3/4"	#10	#10	FPVAV-02 - RM 102A	
								39		1.4 2.7		40								
	SSI-1 - RM 107	#12	#12	3/4"		20	2	41			1.4 1.6	42	2	20		3/4"	#12	#12	SSO-1 - ROOF	
								43	0.1 1.6			44								
								45		0.1 0.2		46	1	20	G3	3/4"	#12	#12	HOT BOX HEATER - EXTERIOR	
	EF-1 - ROOF	#12	#12	3/4"		20	1	47			0.4 --	48	1	--	--	--	--	--	SPACE	
	EF-2 - ROOF	#12	#12	3/4"		20	1	49	0.4 --			50	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	51		-- --		52	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	53			-- --	54	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	55	-- --			56	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	57		-- --		58	1	--	--	--	--	--	SPACE	
	SPACE	--	--	--	--	--	1	59			-- --	60	1	--	--	--	--	--	SPACE	
									TOTAL LOAD (kVA):	20.1 kVA	16.9 kVA	17.4 kVA								
									TOTAL CURRENT (A):	168 A	141 A	146 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	
EQUIP	6730 VA	100.00%	6730 VA	TOTAL CONNECTED LOAD:	54350 VA
HVAC	47620 VA	100.00%	47620 VA	TOTAL ESTIMATED DEMAND:	54350 VA
				TOTAL CONNECTED CURRENT:	151 A
				TOTAL ESTIMATED DEMAND CURRENT:	151 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 ENGINEER SEAL 038491 DANIEL A. BOLAND

222.063 08/16/2023

Novant Family Medical Clinic - North Wilmington
416 N 30th Street, Wilmington, NC 28405

No.	Description	Date
1	Owner Coordination	08/16/23

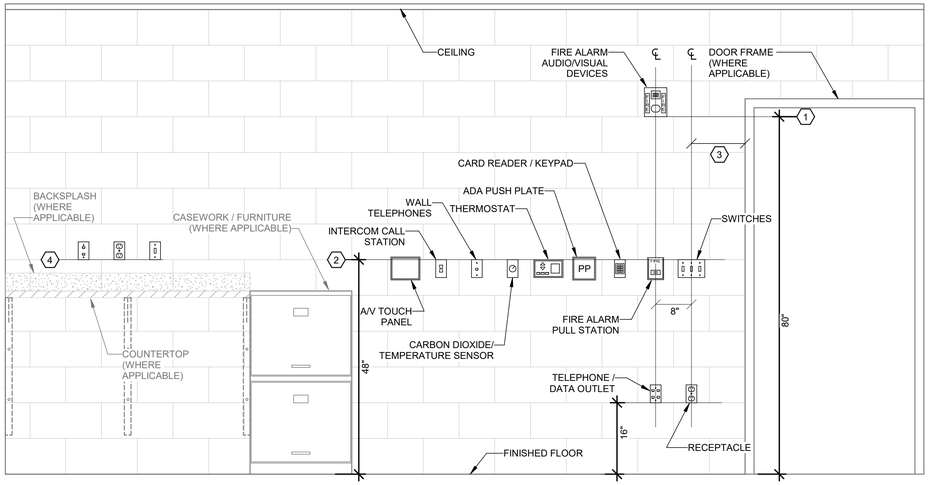
CONSTRUCTION DOCUMENTS

ELECTRICAL PANEL SCHEDULES

ISSUE DATE 06/14/2023
CHECKED DAB
SHEET BY DEC
PROJECT NUMBER 21-010

E501

8/15/2023 11:48:38 AM 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).

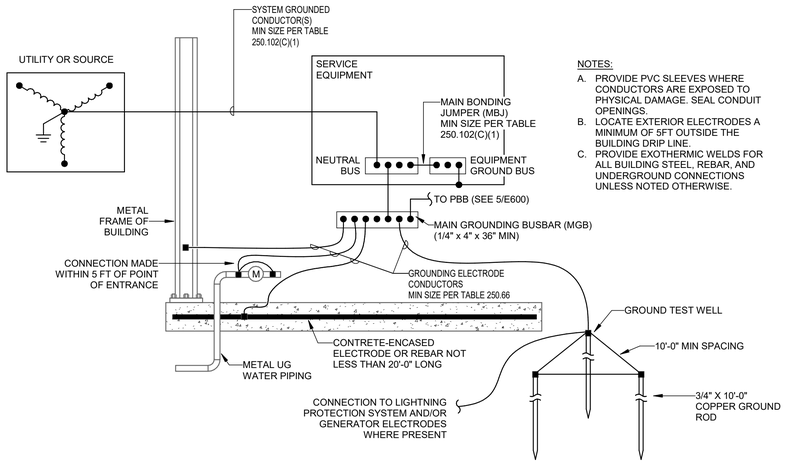
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

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 STANDARD 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

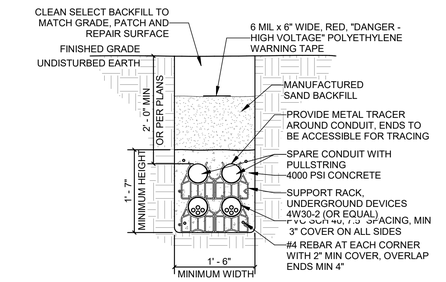
NO SCALE



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

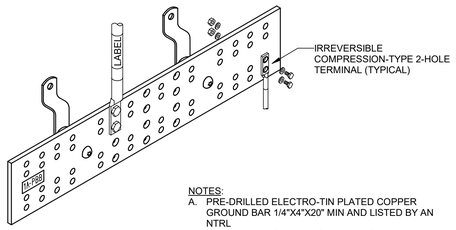
NO SCALE



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.

3 DUCT BANK DETAIL - 4 CONDUIT

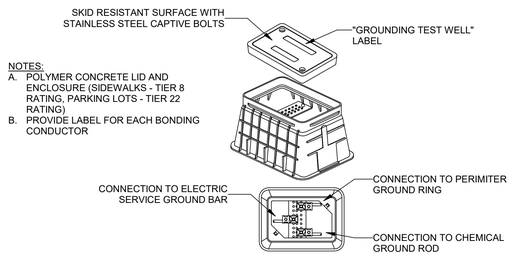
NO SCALE



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 FOR TELECOM CLOSET
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.

4 GROUNDING BUSBAR

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

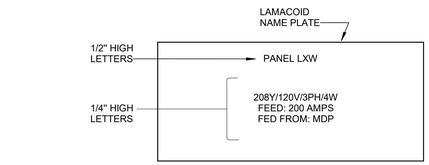
5 GROUND INSPECTION WELL

NO SCALE

System	Current Color
Voice/Data	Blue
Nurse Call/Code Blue (Rauland/HilRom/Clinic Systems)	White
Fire Alarms	Red
Security Systems/Access Control	Purple
Life Safety Branch	Yellow
Critical Branch	Orange
Equipment Branch	Green
Normal Branch	None/Silver

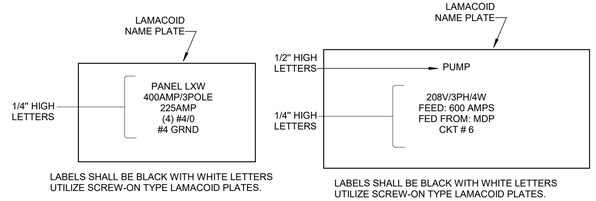
6 CONDUIT COLOR CODE STANDARD

NO SCALE



LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL POWER PANEL NAMEPLATE DETAIL
NO SCALE



LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

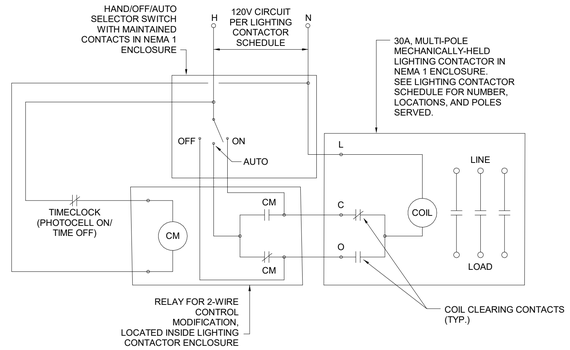
LABELS SHALL BE BLACK WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL DISTRIBUTION PANELBOARD CIRCUIT LABEL NAMEPLATE DETAIL
NO SCALE

TYPICAL DISCONNECT AND COMBINATION STARTER/DISCONNECT NAMEPLATE DETAIL
NO SCALE

7 PANEL LABELING DETAILS

NO SCALE



NOTES:
1. INSTRUCT OWNER ON THE OPERATION OF THE CONTROLS.
2. PROVIDE ALL NECESSARY WIRING AND CONDUIT FOR A COMPLETE, OPERABLE AUTOMATIC LIGHTING CONTROL SYSTEM.

EXTERIOR LIGHTING CONTACTOR SCHEDULE (TORK #ELC78 OR APPROVED EQUAL)				
DESIGNATION	LOCATION	POLES	CONTROL CIRCUIT	POLES SERVED
ELC1	ELEC 109	8	MDP-13	A-42, B-45, B-47, B-49, B-51, B-53

8 EXTERIOR LIGHTING CONTROL DIAGRAM

NO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

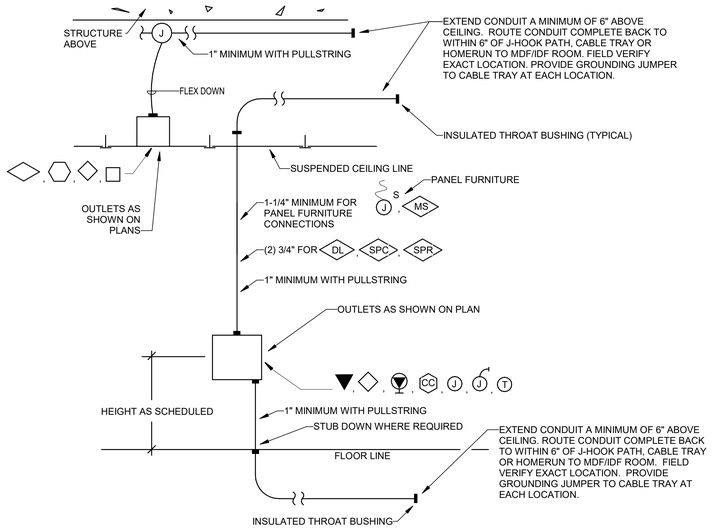
CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

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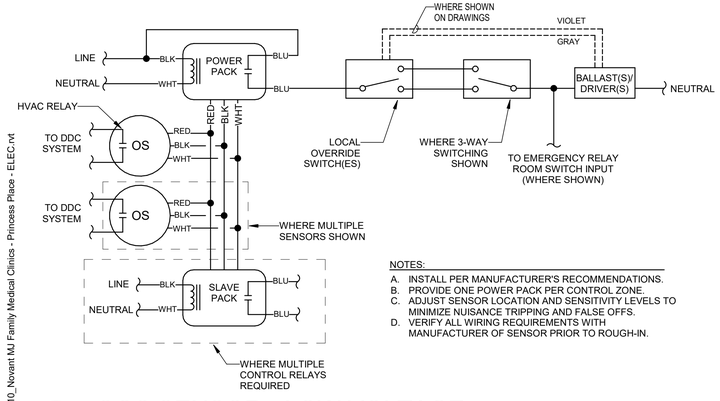


NOTES:

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

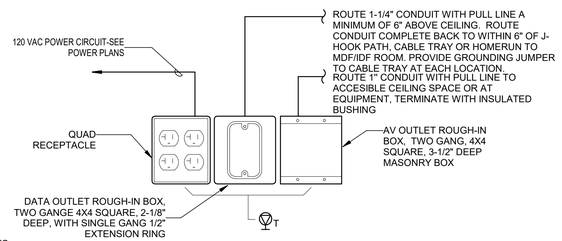


NOTES:

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

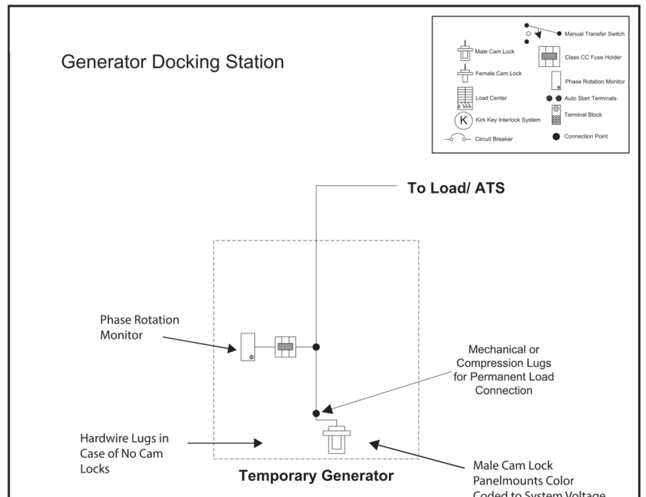


NOTES:

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. BOXES TO BE NO MORE THAN 2" APART.

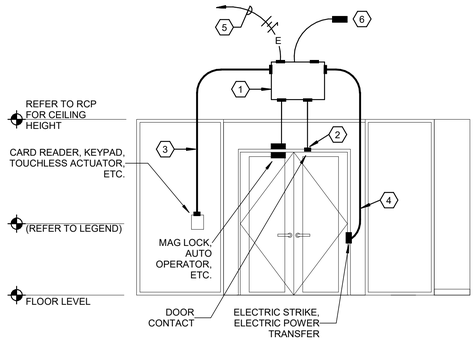
3 TV OUTLET BOX DETAIL

NO SCALE



4 GENERATOR DOCKING STATION

NO SCALE



TAGGED NOTES:

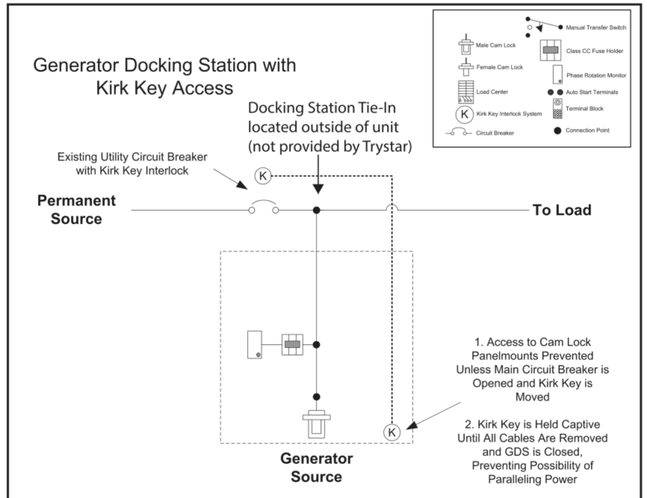
1. DOOR JUNCTION PANEL ABOVE DOOR PROVIDED AND INSTALLED BY THE ACCESS CONTROL VENDOR/CONTRACTOR. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR ALL LOCATIONS.
2. PROVIDE CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR DOOR POSITION CONTACT SWITCHES, AUTO 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.

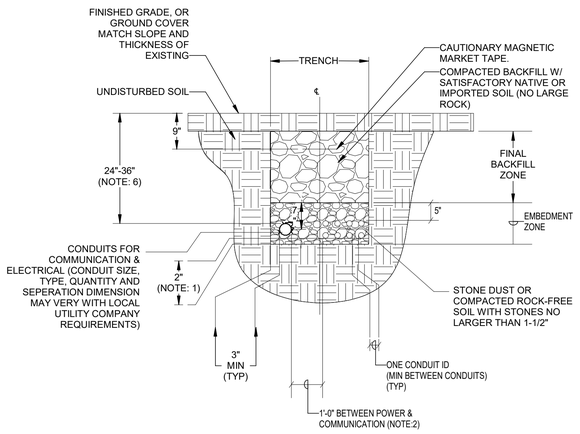
5 TYPICAL DOOR HARDWARE ROUGH-IN ELEVATION

NO SCALE



6 GENERATOR DOCKING STATION - ADD ALTERNATE

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 PERMIMETER.
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 ENGINEER SEAL 038491 DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

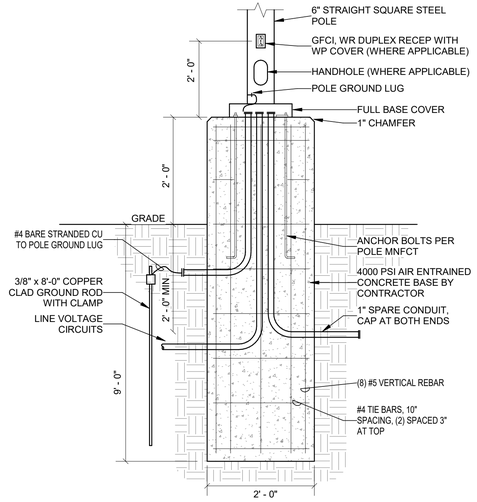
CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

ISSUE DATE 06/14/2023
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PROJECT NUMBER 21-010

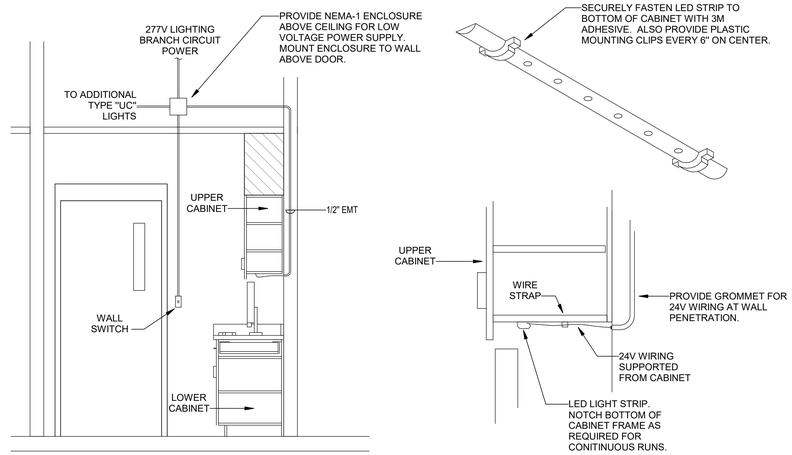
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3 BOLLARD BASE DETAIL

NO SCALE

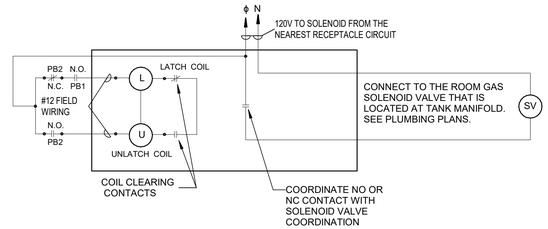


NOTES

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.

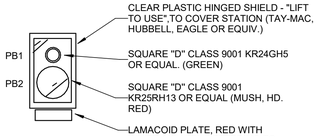
1 LIGHT FIXTURE TYPE "UC" INSTALLATION DETAIL

NO SCALE



NOTES:

A. CONTACTORS SHALL BE SQUARE "D" OR EQUIVALENT CLASS 8903, NEMA 1 ENCLOSURE, MECHANICALLY HELD, PERMANENT MAGNET LATCH, 20A CONTACTS, SERIES LXG, MOUNT VERTICALLY AND PLUMB.



2 EMERGENCY SERVICE SHUT OFF WIRING DIAGRAM

NO SCALE

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C-4556

NORTH CAROLINA PROFESSIONAL SEAL 038491 ENGINEER DANIEL A. BOLAND

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

416 N 30th Street, Wilmington, NC 28405

No.	Description	Date

CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

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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 - ADJUSTABLE TYPE	BASIS OF DESIGN: WATTS MODEL CO-200	-	——	——	——	SEE FLOOR PLANS FOR SIZE
WCO	WALL CLEANOUT	BASIS OF DESIGN: WATTS CO-480-RD STAINLESS STEEL COVER.					

NOTE:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FIXTURES.

MOTOR CONTROL SCHEDULE

MOTOR DESIGNATION	UNIT USE	POWER SOURCE	RATING HORSEPOWER (KW)	VOLTAGE	PHASE	MOTOR LOCATION	MOTOR STARTER TYPE	LOCATION	FURNISHED BY	INSTALLED BY	WIRED THRU STARTER TO MOTOR	AUXILIARY CONTROL DEVICES ITEM	LOCATION	FURNISHED BY	INSTALLED BY	WIRED BY
HWRP-1	HOT WATER RECIRCULATION	NORMAL	1/6	120	1	WH 122C	MANUAL	WH 122C	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 - 115°
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	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	25 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.

NOTES:
1. PROVIDE WITH AN ADJUSTABLE AQUASTAT.

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 PIPING AFTER THE BUILDING IS COMPLETED.
12. THE HOT WATER RECIRCULATION SYSTEM SHALL BE BALANCED. SUBMIT REPORT TO ARCHITECT.
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 FOR SMOKE AND FIRE.
18. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.

PLUMBING SHEET LIST

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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NORTH CAROLINA PROFESSIONAL SEAL 31478 ENGINEER JAMES L. CURRIE

222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

No.	Description	Date

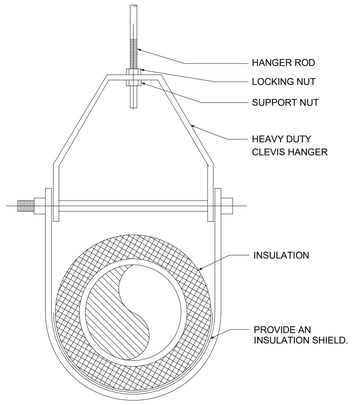
CONSTRUCTION DOCUMENTS

PLUMBING NOTES, SYMBOLS, SCHEDULES

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SHEET BY JF
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P001

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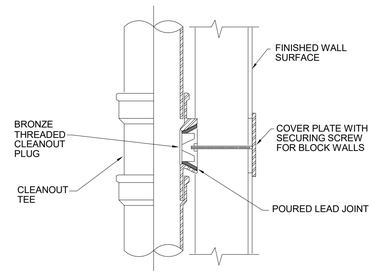


MAXIMUM PIPE SUPPORT SPACING				
	HORIZONTAL			VERTICAL
PIPE SIZE	1"	1¼"	1½" AND LARGER	ALL PIPE SIZES
COPPER PIPING	6 FT		10 FT	10 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
CAST IRON PIPING	5 FT. (10 FT WHERE 10 FOOT LENGTH OF PIPE ARE USED)			15 FT
PIPE SIZE	ALL PIPE SIZES			ALL PIPE SIZES
STEEL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

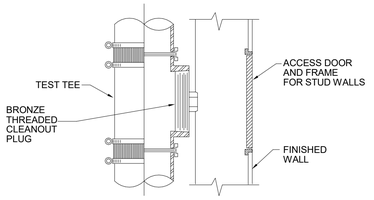
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.

REFER TO THE GAS PIPING HANGER SCHEDULE FOR GAS PIPING.

7 P002 — CLEVIS HANGER DETAIL — SCALE: NONE

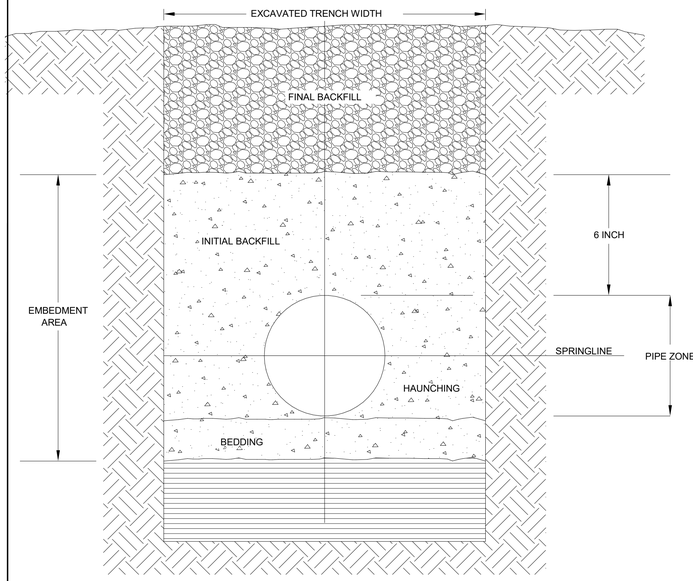


HUB AND SPIGOT WITH COVER PLATE



NO-HUB WITH ACCESS COVER

5 P002 — WALL CLEANOUT DETAIL — SCALE: NONE



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.

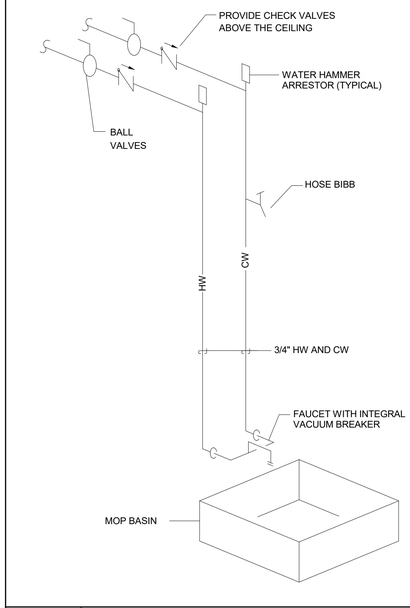
ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

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

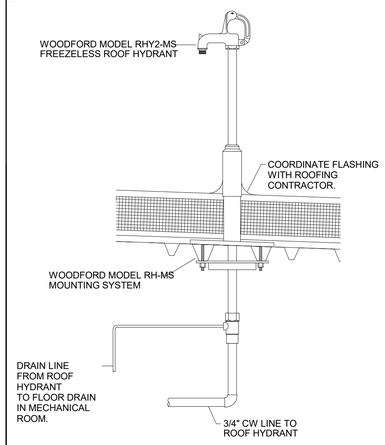
RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

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.

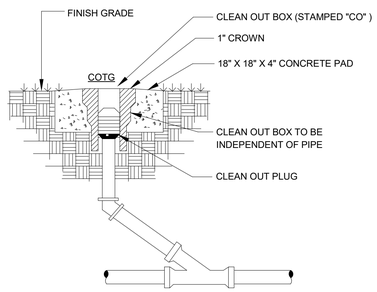
2 P002 — UNDERGROUND PCV PIPE INSTALLATION DETAIL — SCALE: NONE



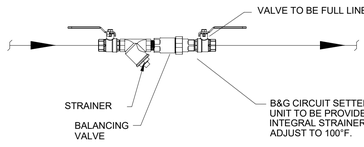
8 P002 — MOP BASIN DETAIL — SCALE: NONE



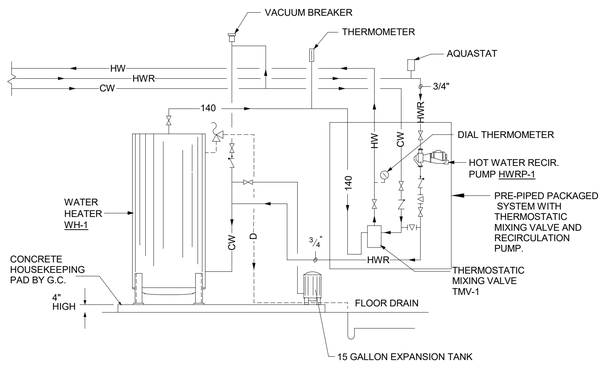
6 P002 — ROOF HYDRANT DETAIL — SCALE: NONE



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



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



1 P002 — ELECTRIC WATER HEATER PIPING DETAIL — SCALE: NONE

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222.063 06/14/2023

Novant Family Medical Clinic - North Wilmington

3009 Princess Place Drive

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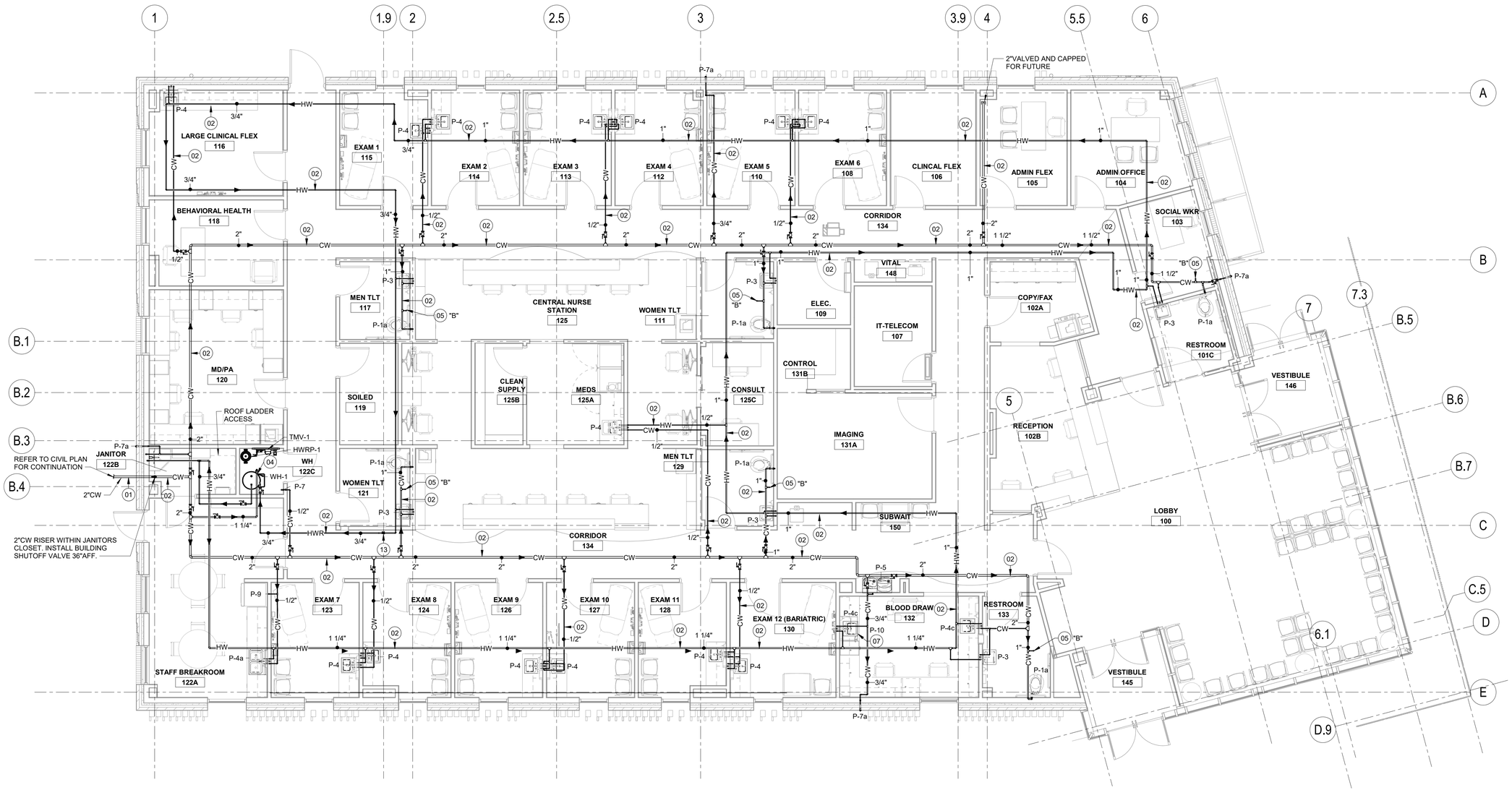
PLUMBING DETAILS

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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.
05	SHOCK ABSORBER SIZED PER PDI STANDARDS. THE SIZE OF THE SHOCK ABSORBER IS LOCATED ADJACENT TO THE KEYED NOTE. SHOCK ABSORBERS SHALL BE EXTENDED TO A POINT ABOVE THE CEILING AND PROVIDED WITH AN ACCESS PANEL AT HARD CEILING LOCATIONS.
07	RUN 1/2" CW/HW TO THERMOSTATIC MIXING VALVE SERVING EYEWASH P-10.
13	CIRCUIT SETTER WITH BALL VALVES. SET BALANCE TO 2.5 GPM. SEE DETAIL ON DRAWING P002.



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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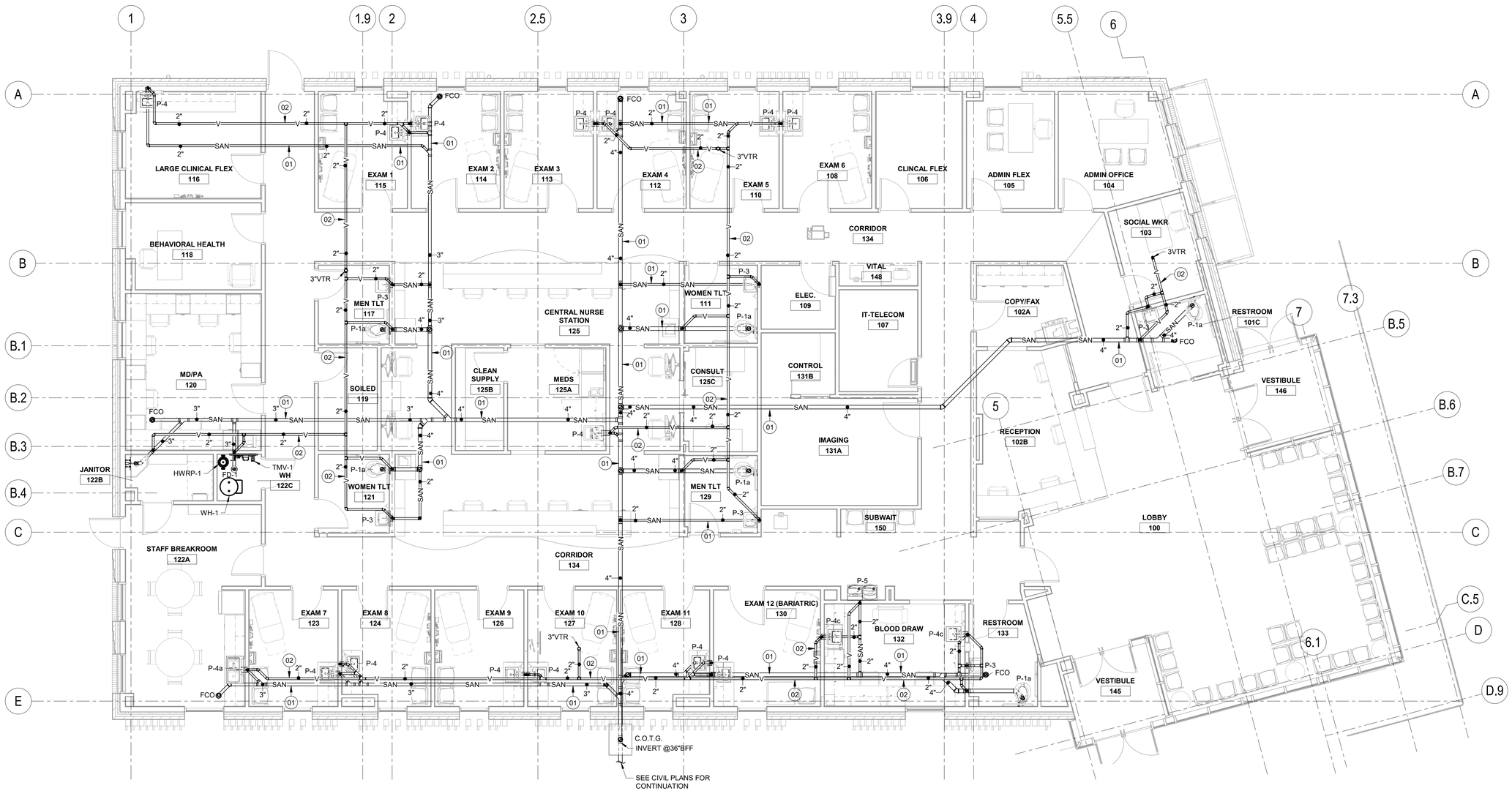
FIRST FLOOR PLAN - PLUMBING - HOT AND COLD WATER PIPING

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P101

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Keynote Legend	
Key Value	Keynote Text
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1 / P102 FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING
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3/16" = 1'-0" 2' 0 2' 4' 8'

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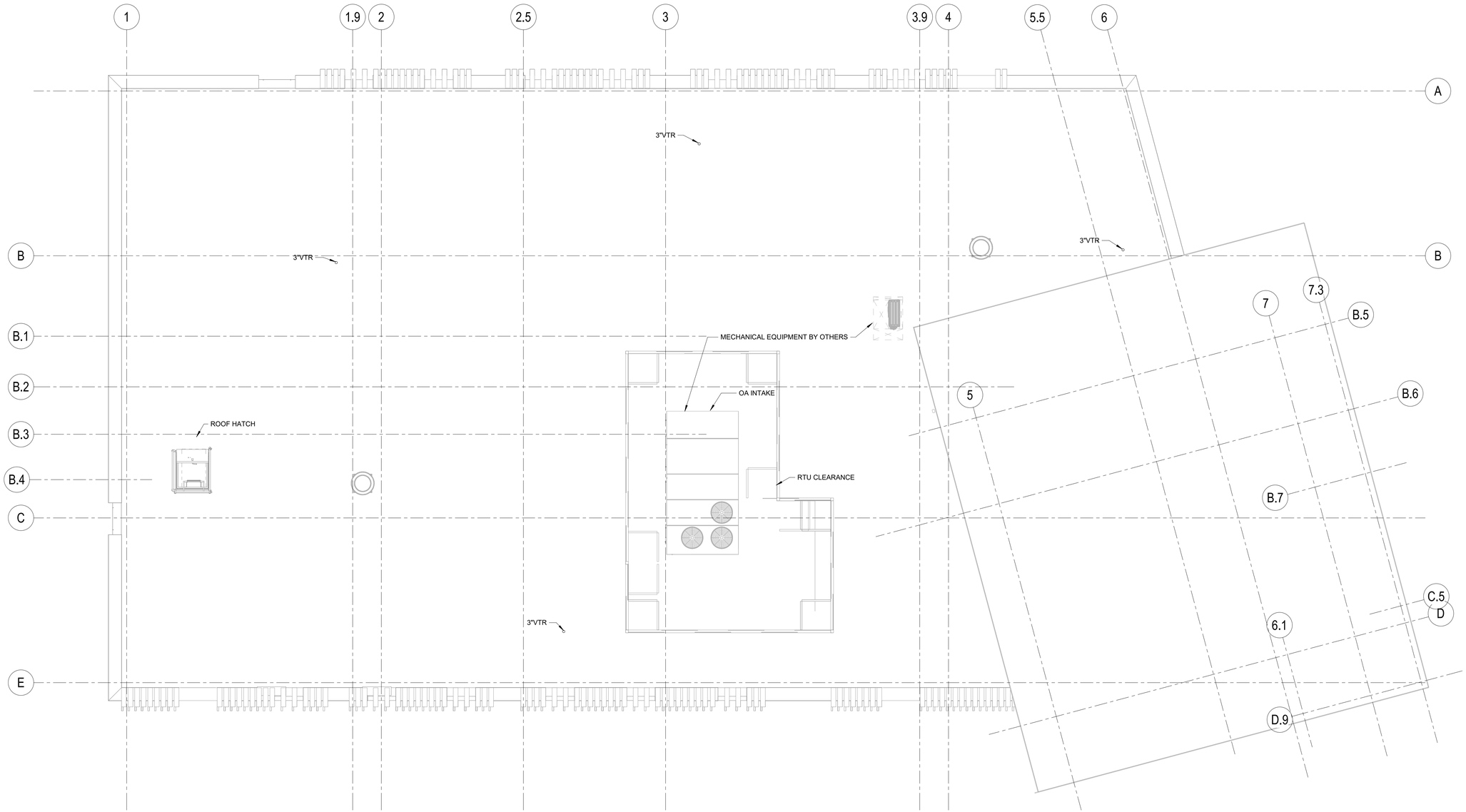
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FIRST FLOOR PLAN - PLUMBING - WASTE AND VENT PIPING

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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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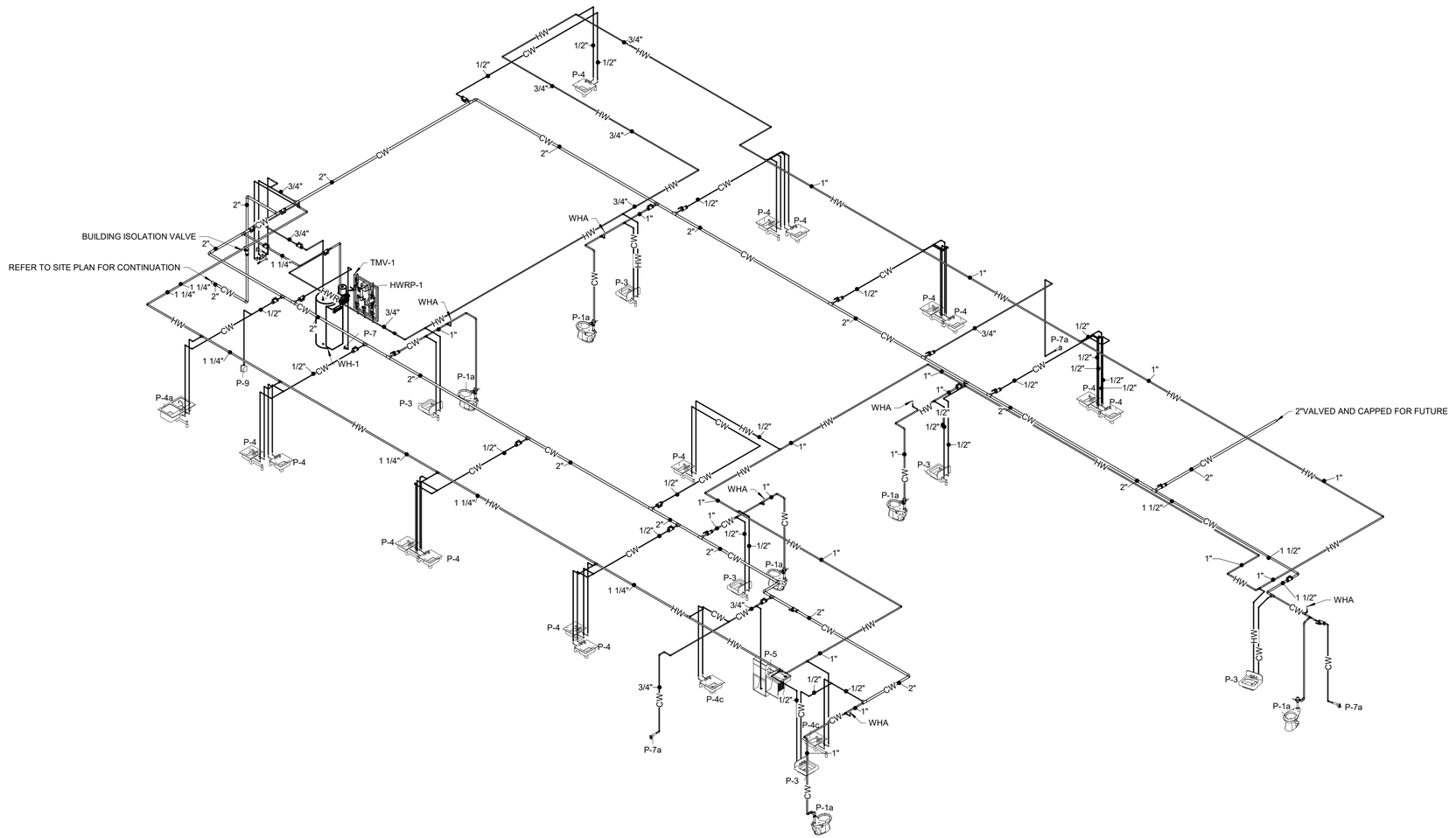
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ROOF PLAN - PLUMBING

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P103



1 P201 PLUMBING ISOMETRIC - HOT AND COLD WATER PIPING
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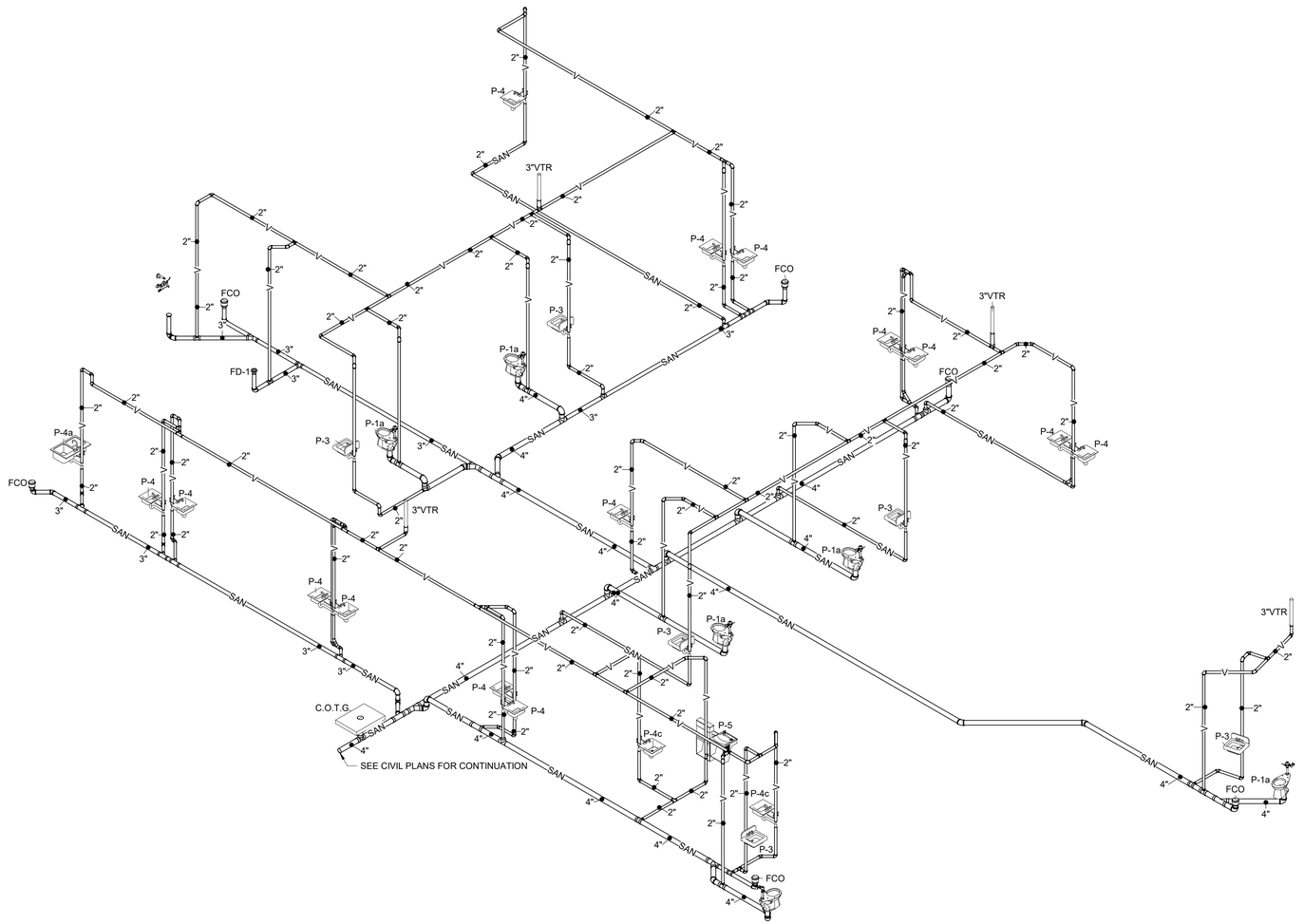
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PLUMBING ISOMETRIC- HOT AND COLD WATER

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P201



1 P202 PLUMBING ISOMETRIC - WASTE AND VENT PIPING
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PLUMBING ISOMETRIC - WASTE AND VENT

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