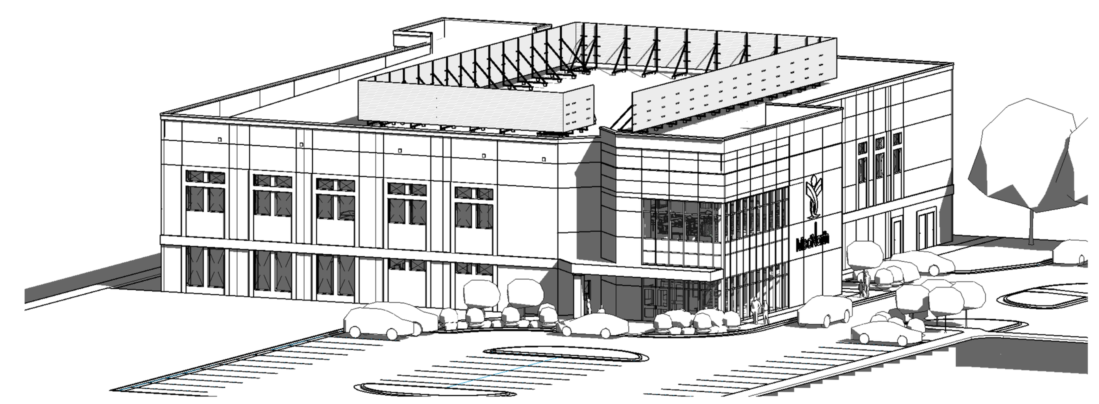
NEW CONSTRUCTION OF

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401



DESIGN DEVELOPMENT

07/12/2024

ABBREVIATIONS

ACT	ACOUSTIC CEILING	F.E.C.	FIRE EXTINGUISHER	PT., PTD.	PAINTED
	TILE		CABINET	P.R.V.	POWER ROOF VENTILATOR
AC.	ACOUSTIC	FIN.F.,F.F.	FINISHED FLOOR	R.D.	ROOF DRAIN
AL., ALUM.	ALUMINUM	F.OF S.	FACE OF STUD	REC.	RECESSED
A.P.	ACCESS PANEL	FRP	FIREGLASS	RECPT.	RECEPTIONIST
A.R.GWB	ABUSE RESISSTANT		REINFORCED PLASTIC	REF.	REFRIGERATOR
	GWB	F.R.T.	FIRE RETARDANT	REQD.	REQUIRED
A.F.F.	ABOVE FINISHED		TREATED	R.L.	RAIN LEADER
	FLOOR	FTG.	FOOTING	RM.	ROOM
BD.	BOARD	FURR.	FURRING	R.O.	ROUGH OPENING
BLDG.	BUILDING	F.V.	FIELD VERIFY	RUB.	RUBBER (WALL BASE)
B.M.	BENCH MARK	FVC	FIRE VALVE CABINET	S.D.	SOAP DISPENSER
BRG.	BEARING	GA.	GAUGE	SECT.	SECTION
CAB.	CABINET	G.B.	GRAB BAR	S.G.F.T.	STRUCT. GLAZED
CB, C.B.	CHALKBOARD	G.W.B, GWB	GYPSUM WALL BOARD		FACING TILE
C.T.	CERAMIC TILE	GYP.BD.	GYPSUM BOARD	S.H.	SHOWER HEAD
C.H.	CEILING HEIGHT	H., HT.	HEIGHT	SHT.	SHEET
CJ, C.J.	CONTROL JOINT	H.C.	HANDICAPPED	SIM.	SIMILAR
C.L.	CENTER LINE	HDW.	HARDWARE	S.M.	SURFACE MOUNTED
CLG.	CEILING	H.M.	HOLLOW METAL	S.P.	STAND PIPE
CLO., C.	CLOSET	HR.	HOUR	S.S.	SERVICE SINK
CLR.	CLEAR	H.P.	HIGH POINT	S/S	STAINLESS STEEL
C.M.U., CMU	CONCRETE	I.D.	INSIDE DIAMETER	STL.	STEEL
	MASONRY UNIT	INSUL.	INSULATION	STOR.	STORAGE
COL.	COLUMN	J., JAN.	JANITOR	STRUCT.	STRUCTURAL
CONC.	CONCRETE	JST.	JOIST	SUSP.	SUSPENDED
CONST.	CONSTRUCTION	JT.	JOINT	SYN.FL.	SYNTHETIC FLOOR
CONT.	CONTINUOUS	LAM.	LAMINATE	TB, T.B.	TACKBOARD
CORR.	CORRIDOR	LAV.	LOW POINT	TEL.	TELEPHONE
CPT.	CARPET	L.P.	LAVATORY SINK	T.& G.	TONGUE AND GROOVE
C.R.	COLD ROLLED	M.	MEN	THRESH.	THRESHOLD
D.A.	DISTURBED AREA	MACH.	MACHINE	T.O.B.	TOP OF BEARING
DET.	DETAIL	MAINT.	MAINTENANCE	T.O.M.	TOP OF MASONRY PARAPET
D.F.	DRINKING FOUNTAIN	MAS.	MASONRY	T.P.	TOILET PAPER HOLDER
DBL	DOUBLE	MAT.	MATERIALS	T.S.	TACK STRIP,
DIA.	DIAMETER	MAX.	MAXIMUM		TEACHING STATION
DIM.	DIMENSION	MB, M.B.	MARKER BOARD	T.W.	TEACHING WALL
DISP.	DISPENSER	M.C.	MEDICINE CABINET	TYP.	TYPICAL
DR.	DOOR	MECH.	MECHANICAL	U.L.	UNDERWRITERS
DW	DRYWALL	MET., MTL.	METAL		LABORATORIES
DS	DOWNSPOUT	MFR.	MANUFACTURER	U.O.N.	UNLESS OTHERWISE NOTED
DWG.	DRAWING	MIN.	MINMUM	U.S.G.	U.S. GYPSUM COMPANY
EA.	EACH	M.O.	MASONRY OPENING	V.A.T.	VINYL ASBESTOS TILE
E.J., EJ	EXPANSION JOINT	M.S.,	METAL SHELVING	V.C.T.	VINYL COMPOSITION TILE
ELEC.	ELECTRIC(-AL)	MTD	MOUNTED	VERT.	VERTICAL
EP	EPOXY PAINT	N.C., NONCOM.	NON COMBUSTIBLE	VEST., V.	VESTIBULE
EQ.	EQUAL	N.I.C.	NOT IN CONTRACT	V.R.G.	VINYL REDUCER STRIP
EQUIP, EQPT	EQUIPMENT	NO., #	NUMBER	V.T.R.	VENT THROUGH ROOF
E.W.C.	ELECTRIC WATER	N.T.S.	NOT TO SCALE	W.	WOMEN
	COOLER	O.C.	ON CENTER	W/	WITH
EXG.	EXISTING	O.D.	OUTSIDE DIAMETER	WAIN.	WAINSCOT
EXP.	EXPANSION	OFF.	OFFICE	WARD.	WARDROBE
EXT.	EXTERIOR	O.H.	OPPOSITE HAND	W.C.	WATER CLOSET
F.C.	FIRE CODE	OPNG.	OPENING	WD.	WOOD
F.C.U.	FAN COIL UNIT	PART.	PARTITION	WDR.	WARDROBE
F.D.	FLOOR DRAIN	PL.	PLATE	WL.	WALL
FON.	FOUNDATION	PLAM,, P-LAM	PLASTIC LAMINATE	W.M.	WALL-MOUNTED
F.E.	FIRE EXTINGUISHER	PLY., PWD	PLYWOOD	W.W.W.	WELDED WIRE MESH
		PNL.	PANEL		
		PS., P.S.	PROJECTOR SCREEN		

SYMBOLS OF MATERIALS

- ALL METALS-SMALL SCALE
- ACOUSTIC C.M.U. SMALL SCALE
- ACOUSTIC C.M.U. LARGE SCALE
- BATT INSULATION
- BRICK
- CAST STONE
- CONCRETE
- CONCRETE MASONRY UNITS
- EARTH
- GLASS-LARGE SCALE
- GLAZED C.M.U.
- PARTICLE BOARD
- RIGID INSULATION
- SHINGLES
- SOLID CONCRETE MASONRY UNITS
- STEEL-LARGE SCALE
- STUD PARTITION
- WOOD-FINISH
- WOOD BLOCKING

DRAWING KEYS

- 0 — STRUCTURAL GRID LINES
- 1 / A101 SIM — SECTION
- 1 / A101 SIM — ELEVATION
- 1 / A101 SIM — DETAILS IN PLAN, SECTION
- NEW WALL
- 1i — WALL TYPE, SEE A501
- EXISTING WALL TO REMAIN
- ROOM NAME AND NUMBER
- EXISTING WALL TO BE REMOVED
- SF-1 — WINDOW TAG
- 101 — DOOR TAG

DESIGN TEAM

BECKER MORGAN GROUP	ARCHITECT
THOMAS CONSTRUCTION	CONSTRUCTION MANAGER
CLD ENGINEERING, PA	CIVIL ENGINEERS
CITADEL CONTRACTORS, INC.	STUCTURAL ENGINEERS
DSA ENGINEERING, PC	MECHANICAL, ELECTRICAL, & PLUMBING ENGINEERS

GENERAL NOTES

1. **CODES**: ALL WORK ON THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, ORDINANCES, REGULATIONS, STANDARDS, AND ANY ADDITIONAL REQUIREMENT STATED IN ANY LAW, ORDINANCE, OR REGULATION PERTAINING TO CONSTRUCTION WITHIN THE LIMITS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROPOSED WORK (INCLUDING BUT NOT LIMITED TO: FIRE, ACCESSIBILITY, ZONING, WATER, WASTEWATER, ENVIRONMENTAL, STRUCTURAL, ARCHITECTURAL, HEALTH, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND ENERGY CONSERVATION). CONFORMITY TO ALL CODES APPLICABLE TO THIS PROJECT SHALL BE THE CONTRACTORS RESPONSIBILITY.
2. **EGRESS**: ALL MEANS OF EGRESS SHALL BE CONTROLLED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING EXITS, EXIT ACCESS, EXIT DISCHARGE, OTHER EGRESS PATHS, OCCUPANTS LOADS, SPRINKLER PROTECTION, ETC..
3. **ACCESSIBILITY**: ALL BUILDING COMPONENTS, FIXTURES, ACCESSORIES, ETC. SHALL BE INSTALLED WITH MANEUVERING AND OPERATING CLEARANCES, MOUNTING HEIGHTS, ETC. IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT STANDARDS, ICC/ANSI A117.1, AND STATE ACCESSIBILITY CODE.
4. **FIELD VERIFICATION**: THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND PROPOSED BUILDING DIMENSIONS PRIOR TO CONSTRUCTION, ANY VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS TO THESE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION. IF CONTRACTOR COMMENCES CONSTRUCTION WITHOUT NOTIFYING ARCHITECT OF VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS, THAT SHALL CONSTITUTE WAIVER TO ANY CLAIM BY CONTRACTOR FOR ADDITIONAL EXPENSES NECESSARY TO PERFORM WORK ASSOCIATED WITH THOSE CONDITIONS.
5. **SUBMITTALS**: CONTRACTOR SHALL SUBMIT ALL NECESSARY BUILDING COMPONENTS, SYSTEMS, EQUIPMENT, MATERIALS, FINISHES, ETC. FOR REVIEW BY ARCHITECT/OWNER PRIOR TO PROCUREMENT, FABRICATION, AND/OR INSTALLATION.
6. **INSTALLATION**: PROPER ASSEMBLY, INSTALLATION, AND OPERATION OF ALL MATERIALS, COMPONENTS, SYSTEMS, AND FINISHES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND ALL APPLICABLE CODES.
7. **INCIDENTAL WORK**: ANY ITEMS NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REASONABLY INCIDENTAL TO AND NECESSARY FOR THE SATISFACTORY COMPLETION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND STANDARDS, ARE INCLUDED WITHIN THE INTENT OF THESE DESIGN DRAWINGS.
8. **OWNER-PROVIDED WORK:** LOCATION OF ALL OWNER-PROVIDED FIXTURES, EQUIPMENT, ETC. SHALL BE COORDINATED TO ENSURE PROPER ALIGNMENT FOR INSTALLATION AND OPERATION, BLOCKING, ETC.
9. **SAFETY**: COMPONENTS FOR CONSTRUCTION SAFETY ARE NOT INDICATED IN THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL RULES AND OTHER REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND APPLICABLE STATE AND LOCAL SAFETY REQUIREMENTS DURING ALL CONSTRUCTION ACTIVITIES.
10. **INSPECTIONS**: CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL ON-SITE INSPECTIONS REQUIRED PRIOR TO OCCUPANCY APPROVAL.
11. **DIMENSIONS**: UNLESS OTHERWISE INDICATED: WALLS ARE TO FACE OF STUD FRAMING AND TO FACE OF MASONRY; WINDOWS AND DOORS ARE TO CENTERLINE OF OPENING IN STUD FRAMING AND TO FACE OF MASONRY OPENING IN MASONRY; PLUMBING FIXTURES ARE TO CENTERLINE OF FIXTURE.
12. **BLOCKING**: PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION OF ALL PORTIONS OF THE WORK AND PER MANUFACTURER'S WRITTEN RECOMMENDATIONS, WHETHER OR NOT SPECIFICALLY INDICATED IN THESE DRAWINGS.
13. **METAL PROTECTION AT TREATED WOOD**: METAL CONNECTORS THAT COME IN CONTACT WITH TREATED LUMBER SHALL BE STAINLESS STEEL OR "ZMAX" CORROSION RESISTANT MATERIALS TO HELP PROTECT AGAINST ACCELERATED CORROSION. CONTRACTOR SHALL COORDINATE COMPATIBILITY OF ALL METALS USED WITH TREATMENT PRODUCT(S) MANUFACTURER(S)'S WRITTEN RECOMMENDATIONS.
14. **HURRICANE TIES**: CONTRACTOR SHALL PROVIDE HURRICANE TIES AND CONSTRUCTION CONNECTORS PER CODE AND AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
15. **WINDOWS AND DOORS**: WINDOWS AND DOORS ARE INDICATED USING NOMINAL DIMENSIONS. MATERIALS AND INSTALLATION SHALL COMPLY WITH DESIGN PRESSURE (DP) RATINGS, WATER INFILTRATION RATING, IMPACT/SAFETY GLAZING, WIND REQUIREMENTS, EGRESS HARDWARE, U-FACTOR / R-VALUE, ETC.. ALL EXTERIOR UNITS SHALL HAVE CORROSION-RESISTANT HARDWARE.
16. **LIFE SAFETY COMPONENTS**: FINAL LOCATION OF FIRE EXTINGUISHERS, EMERGENCY LIGHTING, AND EXIT SIGNS TO BE AS DIRECTED BY LOCAL FIRE MARSHAL, AND ARE SUBJECT TO FINAL ON-SITE INSPECTION AND EVALUATION. CONTRACTOR SHALL MAKE REVISIONS AND/OR ADDITIONS IN ACCORDANCE WITH FIRE MARSHAL'S INSPECTION..
17. **FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL WORK**: ALL FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL WORK SHALL BE PERFORMED BY QUALIFIED, LICENSED (SUB) CONTRACTORS, AND BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, STANDARDS, ETC.. ALL COMPONENTS SHALL BE INSTALLED ABOVE THE FLOOD ELEVATION AS REQUIRED BY FEMA, LOCAL A.H.J., AND ALL APPLICABLE CODES
18. **PIPE INSULATION**: CONTRACTOR SHALL INSULATE AND PROTECT PIPES AS REQUIRED BY CODE, AND AS REQUIRED TO PROTECT PIPING EXPOSED TO EXTERIOR CONDITIONS.
19. **GRADING**: CONTRACTOR SHALL COORDINATE SITE GRADING TO COMPLY WITH CODES AND ORDINANCES, AND TO MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING.

DRAWING LIST

SHEET No.	SHEET TITLE
GENERAL	
G001	COVER SHEET
G101	BUILDING CODE SUMMARY
G102	FIRST FLOOR LIFE SAFETY PLAN
G103	SECOND FLOOR LIFE SAFETY PLAN
G501	U.L. RATED ASSEMBLIES
CIVIL	
CP-0	OVERALL STORMWATER PLAN
CP-1	ENLARGED GRADING PLAN
CP-2	ENLARGED GRADING PLAN
CP-3	ENLARGED GRADING PLAN
SW-D1	STANDARD "STORMTANK" DETAILS
SW-D2	STANDARD "STORMTANK" DETAILS
SW-D3	STORMWATER DETAILS
SW-D4	STORMWATER DETAILS
DD-1	GENERAL CITY OF WILMINGTON DETAILS
CD-1	CONSTRUCTION DETAILS
UD-1	GENERAL CFPUA DETAILS
UD-2	GENERAL CFPUA DETAILS
UD-3	GENERAL CFPUA DETAILS
STRUCTURAL	
S0.1	STRUCTURAL NOTES
S1.0	FOUNDATION PLAN
S1.1	FOUNDATION DETAILS
S2.0	2ND FLOOR FRAMING PLAN
S2.1	ROOF FRAMING PLAN
S3.0	STRUCTURAL DETAILS
ARCHITECTURAL	
A001	CONSTRUCTION TYPES - EXTERIOR WALLS, SLABS, FLOORS, AND ROOFS
A002	CONSTRUCTION TYPES - INTERIORS WALLS
A100	ARCHITECTURAL SITE PLAN
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A110	ROOF PLAN
A111	FIRST FLOOR REFLECTED CEILING PLAN
A112	SECOND FLOOR REFLECTED CEILING PLAN
A113	FIRST FLOOR FINISH PLAN
A114	SECOND FLOOR FINISH PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A311	WALL SECTIONS
A401	PLUMBING TYPES, TYPICAL TOILET ROOM ENLARGED PLANS
A402	STAIR PLAN & SECTIONS
A403	TYPICAL EXAM ROOMS ENLARGED PLANS AND ELEVATIONS
A404	PAC & RECEPT. ENLARGED PLANS AND ELEVATIONS
A520	ROOF DETAILS
A532	MANUFACTURERS DETAILS - TPO
A533	MANUFACTURERS DETAILS - TPO
A601	DOOR TYPES AND SCHEDULE
A602	WINDOW TYPES
A604	FINISH SCHEDULE
A605	FINISH SCHEDULE LEGEND
A701	INTERIOR ELEVATIONS
A702	INTERIOR ELEVATIONS
A703	INTERIOR ELEVATIONS
A801	DEPARTMENT LAYOUT - FIRST FLOOR PLAN
A802	DEPARTMENT LAYOUT - SECOND FLOOR PLAN
FIRE ALARM	
FA001	FIRE ALARM RISER AND DETAILS
FA111	FIRE ALARM PLAN - FIRST FLOOR
FA121	FIRE ALARM PLAN - SECOND FLOOR
PLUMBING	
P001	PLUMBING LEGENDS AND ABBREVIATIONS
P111	PLUMBING DOMESTIC PLAN LEVEL 1
P112	PLUMBING DOMESTIC PLAN LEVEL 2
P211	PLUMBING SANITARY & VENT PLAN LEVEL 1
P212	PLUMBING SANITARY & VENT PLAN LEVEL 2
P213	PLUMBING SANITARY & VENT PLAN ROOF
P401	PLUMBING ENLARGED PLANS
P511	PLUMBING DOMESTIC ISOMETRIC LEVEL 1
P512	PLUMBING DOMESTIC ISOMETRIC LEVEL 2
P521	PLUMBING SANITARY & VENT ISOMETRIC LEVEL 1
P522	PLUMBING SANITARY & VENT ISOMETRIC LEVEL 2
P601	PLUMBING DETAILS
P701	PLUMBING SCHEDULES
MECHANICAL	
M001	MECHANICAL LEGENDS AND ABBREVIATIONS
M101	MECHANICAL PLAN LEVEL 1
M102	MECHANICAL PLAN LEVEL 2
M103	MECHANICAL DUCTWORK ROOF
M301	AIR BALANCE LEVEL 1
M302	AIR BALANCE LEVEL 2
M501	MECHANICAL CONTROLS
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M701	MECHANICAL SCHEDULES
ELECTRICAL	
E111	PARTIAL LIGHTING PLAN - FIRST FLOOR
E112	PARTIAL LIGHTING PLAN - FIRST FLOOR
E121	PARTIAL LIGHTING PLAN - SECOND FLOOR
E122	PARTIAL LIGHTING PLAN - SECOND FLOOR
E211	PARTIAL POWER PLAN - FIRST FLOOR
E212	PARTIAL POWER PLAN - FIRST FLOOR
E221	PARTIAL POWER PLAN - SECOND FLOOR
E222	PARTIAL POWER PLAN - SECOND FLOOR
E231	POWER PLAN - ROOF
E311	POWER PLAN - HVAC FIRST FLOOR
E321	POWER PLAN - HVAC SECOND FLOOR
E501	ELECTRICAL SCHEDULES
E601	SINGLE LINE

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. Registered Architectural Corporation 51922 North Carolina WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER
925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS
ISSUED: 04/26/2024

SHEET TITLE

COVER SHEET

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1" = 1'-0"
DRAWN BY: HVD	PROJ MGR: BMR

G001

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BUILDING CODE SUMMARY

NAME OF PROJECT: MEDNORTH HEALTH CENTER
ADDRESS: 925 N 4TH STREET, WIMINGTON, NC 28401
OWNER OR AUTHORIZED AGENT: CHRIS THORN PHONE #:910.679.8480 E-Mail: cthorn@thomasconstructiongroup.com
OWNED BY: ☐ City ☐ County ☐ State ■ Private
CODE ENFORCEMENT JURISDICTION: ■ City ■ County ☐ State

CONTACT: BRICE M. REID, AIA

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL ADDRESS
ARCHITECTURAL	Becker Morgan Group, Inc.	Ernest W. Olds	105959	910.341.7600	eolds@beckermorgan.com
CIVIL					
ELECTRICAL					
FIRE ALARM					
PLUMBING					
MECHANICAL					
SPRINKLER-STANDPIPE					
STRUCTURAL					
RETAINING WALL >5' HIGH					
OTHER					

2018 NC BUILDING CODE: BUSINESS
■ New Building ☐ Addition ☐ Renovation ☐ 1st Time Interior Completion
☐ Phased Construction - Shell/Core ☐ Shell/Core
2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Change of Use
☐ Historic Property ☐ Change of Use ☐ Historic Property

CONSTRUCTED: N/A CURRENT OCCUPANCY(S) (Ch. 3) N/A
RENOVATED: N/A PROPOSED OCCUPANCY(S) (Ch. 3) BUSINESS
RISK CATEGORY (Table 1604.5): CURRENT ■ N/A ☐ I ☐ II ☐ III ☐ IV
PROPOSED ☐ N/A ☐ I ■ II ☐ III ☐ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: ☐ I-A ☐ I-B ☐ II-A ■ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
SPRINKLERS: ☐ NO ■ YES ☐ PARTIAL ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ■ NO ☐ YES ☐ CLASS I ☐ CLASS II ☐ CLASS III ☐ WET ☐ DRY
PRIMARY FIRE DISTRICT: ■ NO ☐ YES
FLOOD HAZARD AREA: ■ NO ☐ YES
SPECIAL INSPECTIONS: ☐ NO ■ YES

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	RENO/ALTER (SQ. FT.)	SUB-TOTAL
6TH FLOOR				
5TH FLOOR				
4TH FLOOR				
3RD FLOOR				
2ND FLOOR		17,566 SF		
MEZZANINE				
1ST FLOOR		17,566 SF		
BASEMENT				
TOTAL		35,132 SF		35,132 SF

ALLOWABLE AREA:

PRIMARY OCCUPANCY CLASSIFICATION(S):
ASSEMBLY ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS ■
EDUCTIONAL ☐
FACTORY ☐ F-1 MODERATE ☐ F-2 LOW
HAZARDOUS ☐ H-1 DETONATE ☐ H-2 DEFLAGRATE ☐ H-3 COMBUST ☐ H-4 HEALTH ☐ H-5 HPM
INSTITUTIONAL ☐ I-1 CONDITION ☐ 1 ☐ 2
☐ I-2 CONDITION ☐ 1 ☐ 2
☐ I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
MERCANTILE ☐
RESIDENTIAL ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE ☐ S-1 MODERATE ☐ S-2 LOW ☐ S-3 HIGH-PILED
☐ PARKING GARAGE ☐ OPEN ☐ ENCLOSED ☐ REPAIR GARAGE
UTILITY AND MISCELLANEOUS ☐

ACCESSORY OCCUPANCY CLASSIFICATION(S): S-2
INCIDENTAL USES (Table 509):
SPECIAL USES (Chapter 4 - List Code Sections):
SPECIAL Provisions (Chapter 5 - List Code Sections): N/A
MIXED OCCUPANCY: ■ NO ☐ YES SEPARATION:_____HR. EXCEPTION:

☐ Non-Separated Use (508.3)
☐ 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

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA UNSPRINKLERED	(B) TABLE 506.2[4] AREA SPRINKLERED	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1	BUSINESS - B	8,407 SF		69,000 SF		69,000 SF
1	ASSEMBLY- A-3	4,410 SF		38,000 SF		38,000 SF
1	STORAGE - S-2	406 SF		23,000 SF		23,000 SF
2	BUSINESS - B	9,723 SF		69,000 SF		69,000 SF
2	ASSEMBLEY- A-3	2,474 SF		38,000 SF		38,000 SF
2	STORAGE - S-2	553 SF		23,000 SF		23,000 SF

1. FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
   A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FT MINIMUM WIDTH 279 (F)
   B. TOTAL BUILDING PERIMETER = 607 FT (P)
   C. RATIO (F/P) = 46% (F/P)
   D. W = MINIMUM WIDTH OF PUBLIC WAY = 30 (W) (do not exceed 30)
   E. PERCENT OF FRONTAGE INCREASE Iₒ = 100 [F/P - 0.25] x W/30 = 20 (%)
2. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
3. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x D (MAXIMUM 3 STORIES) (506.2)
4. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.
5. FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2

ALLOWABLE HEIGHT:

	ALLOWABLE (TABLES 504.3 & 504.4)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (Table 504.3)	75'	39' 6"	
BUILDING HEIGHT IN STORIES (Table 504.4)	4 STORIES	2 STORIES	

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2. The maximum height of air traffic control tower must comply with Table 412.3.1.
3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED* (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame including columns, girders, trusses		N/A					
Bearing Walls		N/A					
Exterior		N/A					
North		1	4				
East		1	4				
West		1	4				
South		1	4				
Interior		0					
Nonbearing Walls and Partitions		0					
Exterior							
North	>30'	0					
East	>30'	0					
West	>30'	0					
South	>30'	0					
Interior walls and partitions		0					
Floor Construction, including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		1		A-002	UL# U419		
Shaft Enclosures - Other		1		A-002	UL# U419		
Corridor Separation		0					
Occupancy / Fire Barrier Separation		0					
Party / Fire Wall Separation		0					
Smoke Barrier Separation		0					
Tenant / Dwelling Unit / Sleeping Separation		N/A					
Incidental Use Separation		0					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS:

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
0' to <3'	UP, S	NOT PERMITED	

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

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET # G102 AND G103

- FIRE AND/OR SMOKE RATED WALL LOCATIONS (Chapter 7)
- ASSUMED AND REAL PROPERTY LINE LOCATIONS (if not on the site plan)
- EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
- OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2) OCCUPANT LOADS FOR EACH AREA
- EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- DEAD END LENGTHS (1020.4)
- CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
- A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR / CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
- LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10.)
- LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7)
- LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9)
- LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
- LOCATION OF EMERGENCY ESCAPE WINDOWS (1030)
- THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
- THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5)
- NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (SECTION 1107) NOT APPLICABLE

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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL		SEE CIVIL DRAWINGS				

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NEW	2	2	11	1	2	2	11	N/A	2	2
	REQ'D	5	5	N/A	N/A	4	4	N/A	N/A	2	2

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE NORTH CAROLINA ENERGY CONSERVATION CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ YES (the remainder of this section is not applicable) ☐ NO

EXEMPT BUILDING: ☐ YES Provide code or statutory reference: ■ NO

CLIMATE ZONE:

METHOD OF COMPLIANCE:
■ PRESCRIPTIVE (ENERGY CODE)
☐ PERFORMANCE (ENERGY CODE)
☐ PRESCRIPTIVE (ASHRAE 90.1)
☐ PERFORMANCE (ASHRAE 90.1)
☐ PERFORMANCE (OTHER)
If 'Other' specify source here:

THERMAL ENVELOPE (Prescriptive method only)

ROOF/CEILING ASSEMBLY (each assembly)
DESCRIPTION OF ASSEMBLY: SINGLE PLY TPO
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION: R-25
SKYLIGHT'S 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: CONCRETE TILT PANEL
U-VALUE OF TOTAL ASSEMBLY: --
R-VALUE OF INSULATION: R-7.6CI
OPENINGS (windows or doors with glazing)
U-VALUE OF ASSEMBLY: 0.173
SOLAR HEAT GAIN COEFFICIENT: 0.21
PROJECTION FACTOR: 00
DOOR R-VALUES: 00

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 (each assembly)
DESCRIPTION OF ASSEMBLY: CONCRETE SLAB
U-VALUE OF TOTAL ASSEMBLY: N/A
R-VALUE OF INSULATION: N/A
HORIZONTAL / VERTICAL REQUIREMENT: N/A
SLAB HEATED: NO

STRUCTURAL DESIGN SEE STRUCTURAL DRAWINGS

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (Is) _____ SEISMIC (Ie) _____
LIVE LOADS: ROOF _____ PSF; MEZZANINE _____ PSF; FLOOR _____ PSF
GROUND SNOW LOAD: _____ PSF
WIND LOAD: ULTIMATE WIND SPEED _____ MPH (ASCE-7-16); EXPOSURE CATEGORY _____
SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
RISK CATEGORY (TABLE 1604.5) ☐ I ☐ II ☐ III ☐ IV
SPECTRAL RESPONSE ACCELERATION S_S _____ %g S_1 _____ %g
SITE CLASSIFICATION (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
DATA SOURCE: ☐ FIELD TEST ☐ PRESUMPTIVE
BASIC STRUCTURAL SYSTEM: ☐ BEARING WALL ☐ DUAL W/ SPECIAL MOMENT FRAME ☐ BUILDING FRAME ☐ DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL ☐ MOMENT FRAME ☐ INVERTED PENDULUM
ANALYSIS PROCEDURE: ☐ SIMPLIFIED ☐ EQUIVALENT LATERAL FORCE ☐ DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ☐ YES ☐ NO
LATERAL DESIGN CONTROL: ☐ EARTHQUAKE ☐ WIND
SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ PSF
PRESUMPTIVE BEARING CAPACITY _____ PSF
PILE SIZE, TYPE AND CAPACITY _____ PSF

MECHANICAL SUMMARY NOT APPLICABLE

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE
WINTER DRY BULB
SUMMER DRY BULB
INTERIOR DESIGN CONDITIONS
WINTER DRY BULB
SUMMER DRY BULB
RELATIVE HUMIDITY
BUILDING HEATING LOAD
BUILDING COOLING LOAD
MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
DESCRIPTION OF UNIT
HEATING EFFICIENCY
COOLING EFFICIENCY
SIZE CATEGORY OF UNIT
BOILER
SIZE CATEGORY, IF OVERSIZED, STATE REASON
CHILLER
SIZE CATEGORY, IF OVERSIZED, STATE REASON
LIST EQUIPMENT EFFICIENCIES:

ELECTRICAL SUMMARY SEE ELECTRICAL SHEET E001

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: ☐ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE
- LAMP TYPE REQUIRED IN FIXTURE
- NUMBER OF LAMPS IN FIXTURE
- BALLAST TYPE USED IN THE FIXTURE
- TOTAL WATTAGE PER FIXTURE
- TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED (whole building or space by space)
- TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE
☐ 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

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING
North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100
Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100
Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950
The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700
www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE
MEDNORTH HEALTH CENTER
925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS
ISSUED: 05/10/2024

SHEET TITLE
BUILDING CODE SUMMARY

ISSUE BLOCK

Mark	Date	Description

PROJECT NO: 2023038.00
DATE: 07/12/2024
SCALE:
DRAWN BY: MMM PROJ MGR: BMR

G101

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1 LIFE SAFETY FIRST FLOOR PLAN

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

LIFE SAFETY PLAN LEGEND

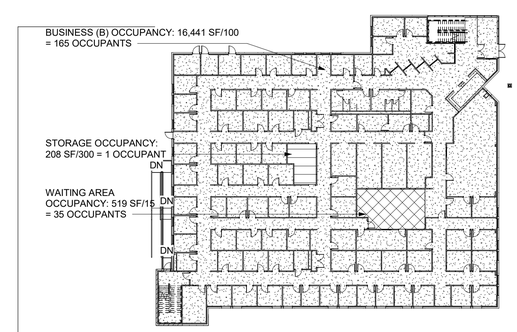
- TRAVEL PATH # 50' - 0" — EXIT ACCESS TRAVEL DISTANCE; PATH OF EXIT ACCESS TRAVEL
- CLASSROOM 119 — ROOM NAME & NUMBER; ROOM AREA
- 786 SF 39 OCC. — OCCUPANCY LOAD (*AC* = ACCESSORY SPACE)
- MIN. EGRESS WIDTH REQ'D (INCHES); MAX. OCC ALLOWED; ACTUAL OCCUPANTS; ACTUAL EGRESS WIDTH PROVIDED (INCHES) — EXIT CAPACITY
- PROPERTY LINE / IMAGINARY LOT LINE
- FIRE EXTINGUISHER CABINET

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

LIFE SAFETY PLAN NOTES

1. PROVIDE NEW FIRE EXTINGUISHERS IN CABINETS (FEC) AND FIRE EXTINGUISHERS ON BRACKETS (FE) AS SHOWN ON FLOOR PLANS. PROVIDE NEW FIRE EXTINGUISHERS IN KITCHEN (TYPE K), MECHANICAL, ELECTRICAL (TYPE B-C), FIRE PUMP, AND ELEVATOR MACHINE ROOMS, AND AS INDICATED.
2. FIRE EXTINGUISHER SHALL BE MINIMUM 3A-40BC RATING.
3. MARK ALL RATED WALLS AND PARTITIONS PER 2018 NCBC 703.7 AND AS DETAILED.



2 OCCUPANCY FIRST FLOOR PLAN

SCALE: 1/32" = 1'-0"

N

0' 4' 8' 16'

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

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

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309 S Governors Ave
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ISSUED: 05/10/2024

SHEET TITLE

FIRST FLOOR LIFE SAFETY PLAN

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	As indicated
DRAWN BY: HVD	PROJ MGR: BMR

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1 LIFE SAFETY SECOND FLOOR PLAN

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

LIFE SAFETY PLAN LEGEND

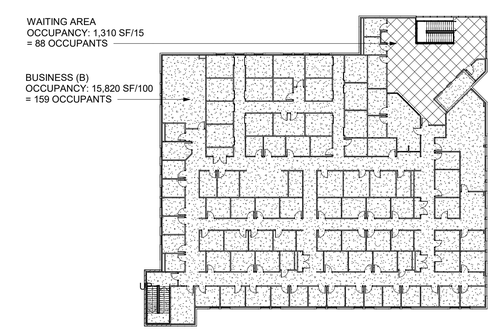
- TRAVEL PATH # / 50' - 0" — EXIT ACCESS TRAVEL DISTANCE; PATH OF EXIT ACCESS TRAVEL
- CLASSROOM / 119 — ROOM NAME & NUMBER
- 786 SF — ROOM AREA
- 39 OCC. — OCCUPANCY LOAD ("AC" = ACCESSORY SPACE)
- MIN. EGRESS WIDTH REQ'D (INCHES); MAX. OCC. ALLOWED; ACTUAL OCCUPANTS; ACTUAL EGRESS WIDTH PROVIDED (INCHES) — EXIT CAPACITY
- PROPERTY LINE / IMAGINARY LOT LINE
- FIRE EXTINGUISHER CABINET

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL			■	■	■	
FIRE WALL/PARTY WALL				■	■	■
FIRE BARRIER			■	■	■	■
FIRE PARTITION		■	■			
SMOKE BARRIER			■			
SMOKE PARTITION	■					
NON-RATED PARTITION						

LIFE SAFETY PLAN NOTES

1. PROVIDE NEW FIRE EXTINGUISHERS IN CABINETS (FEC) AND FIRE EXTINGUISHERS ON BRACKETS (FE) AS SHOWN ON FLOOR PLANS. PROVIDE NEW FIRE EXTINGUISHERS IN KITCHEN (TYPE K), MECHANICAL, ELECTRICAL (TYPE B-C), FIRE PUMP, AND ELEVATOR MACHINE ROOMS, AND AS INDICATED.
2. FIRE EXTINGUISHER SHALL BE MINIMUM 3A-40BC RATING.
3. MARK ALL RATED WALLS AND PARTITIONS PER 2018 NCBC 703.7 AND AS DETAILED.



2 OCCUPANCY SECOND FLOOR PLAN

SCALE: 1/32" = 1'-0"

N

0' 4' 8' 16'

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

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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Dover, DE 19904
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ISSUED: 05/10/2024

SHEET TITLE

SECOND FLOOR LIFE SAFETY PLAN

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	As indicated
DRAWN BY: HVD	PROJ MGR: BMR

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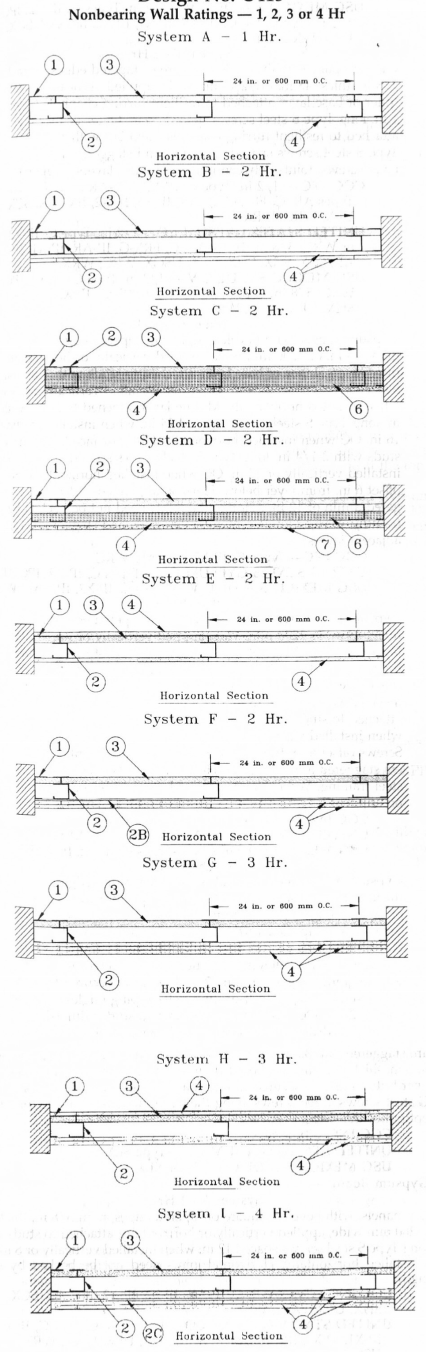
Design No. U415

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr



1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.
2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20

2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** — (Optional, not shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members*** — (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC —Types RSIC-1, RSIC-1 (2.75).

3. **Gypsum Board*** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips o 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Typ G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC —Type SLX
UNITED STATES GYPSUM CO —Type SLX
USG MEXICO S A DE C V —Type SLX

4. **Gypsum Board*** —

System A - 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 4 in. or 1200 mm wide, applied vertically or horizontally, attached to studs wit 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in O when installed horizontally. Horizontal joints need not be backed by ste framing.

CGC INC —Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX
UNITED STATES GYPSUM CO —Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, WRC, WRX, USGX.
USG MEXICO S A DE C V —Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System B - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. o 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. lon Type S steel screws spaced 24 in. OC when installed vertically or 16 ir OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC —1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX
UNITED STATES GYPSUM CO —1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX
USG MEXICO S A DE C V —1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System C - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed hori-

CGC INC —Types IP-X3, or ULTRACODE
UNITED STATES GYPSUM CO —Types IP-X3, or ULTRACODE
USG MEXICO S A DE C V —Types IP-X3, or ULTRACODE

System D - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX
UNITED STATES GYPSUM CO —Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.
USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System E - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX
UNITED STATES GYPSUM CO —1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.
USG MEXICO S A DE C V —1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System F - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX
UNITED STATES GYPSUM CO —1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX.
USG MEXICO S A DE C V — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System G - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC —Types C, IP-X2, IPC-AR, WRC
UNITED STATES GYPSUM CO —Types C, IP-X2, IPC-AR, WRC
USG MEXICO S A DE C V —Types C, IP-X2, IPC-AR, WRC

System H - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC —Types C, IP-X2, IPC-AR, WRC
UNITED STATES GYPSUM CO —Types C, IP-X2, IPC-AR, WRC
USG MEXICO S A DE C V —Types C, IP-X2, IPC-AR, WRC

System I - 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC —Types IP-X3, or ULTRACODE
UNITED STATES GYPSUM CO —Types IP-X3, or ULTRACODE
USG MEXICO S A DE C V —Types IP-X3, or ULTRACODE

4A. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) - Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP —Type RB-LBG

4B. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) - Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO —Nelco

4C. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) - Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.

MAYCO INDUSTRIES INC —Type X-Ray Shielded Gypsum

4D. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC —Type RPP – Lead Lined Drywall

5. **Joint Tape and Compound** — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets*** —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

THERMAFIBER INC —Type SAFB

7. **Cementitious Backer Units*** — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO —DUROCK Exterior Cement Board or DUROCK Brand Cement Board.

8. **Laminating Adhesive*** — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4A) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips** — (Not Shown, for use with Item 4C) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4A) - Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs** — (Not Shown, for use with Item 4C) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".

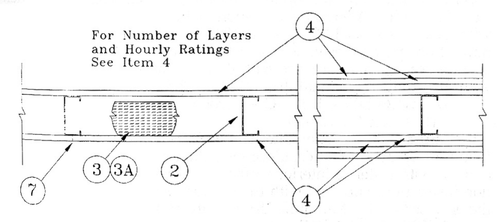
11. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs** — (Not Shown, For Use With Item 4B) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark

Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

3A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO S A DE C V, DF—1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 6B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 5.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.

CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V, DF— Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Aa) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Type RSIC-1.

6B. **Steel Framing Members (Optional, Not Shown)*** — As an alternate to Item 6, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 4. Two layers of gypsum board attached to furring channels as described in Item 4. Not for use with Item 4A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC —Type Isomax

7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100
Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100
Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950
The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700
www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. Registered Architectural Corporation 51922 North Carolina WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER
925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS
ISSUED: 05/10/2024

SHEET TITLE

U.L. RATED ASSEMBLIES

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	
DRAWN BY: MMM	PROJ MGR: BMR

G501

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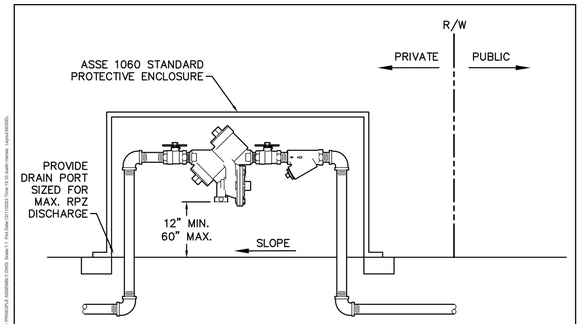
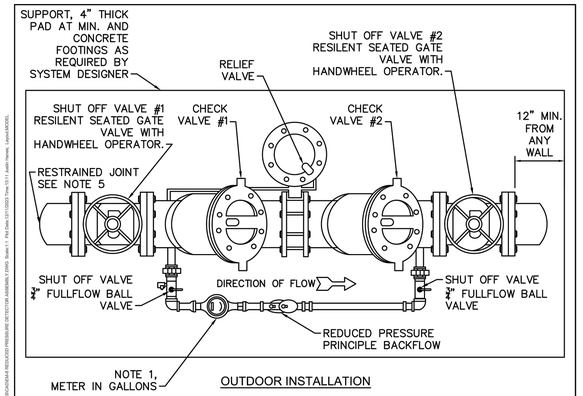


NOTES:
1. MUST BE MIN. 36" AWAY FROM ANY ELECTRICAL PANEL.
2. VALVE REQUIRED DOWNSTREAM OF BACKFLOW ASSEMBLY.
3. VERTICAL INSTALLATION SHALL BE DESIGNED AND SUBMITTED TO CFPUA EMD FOR APPROVAL.
4. LOCATE AS NEAR TO RIGHT-OF-WAY AS POSSIBLE.
5. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR VISIT WWW.CFPUA.ORG/COMMUNITYCOMPLIANCE AND COMPLETE THE ONLINE FORM.
6. ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

OUTDOOR HORIZONTAL INSTALLATION

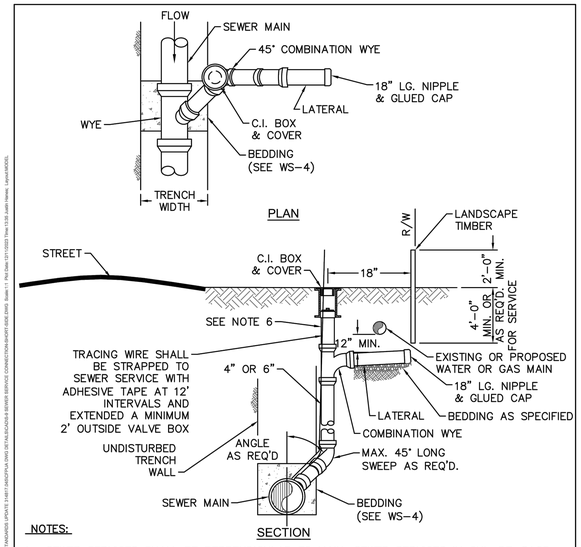
DETAIL: REDUCED PRESSURE PRINCIPLE ASSEMBLY	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: EM-1
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



OUTDOOR INSTALLATION

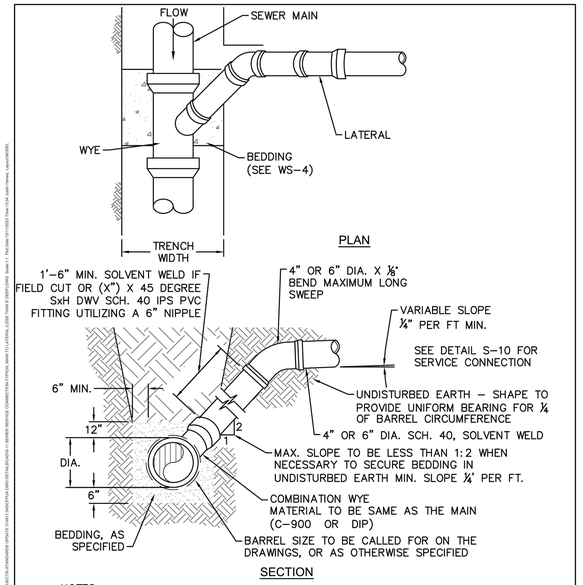
NOTES:
1. FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE CFPUA APPROVED.
2. ABOVE GROUND REDUCED PRESSURE DETECTOR ASSEMBLIES (RPDA) PER CFPUA STANDARDS.
3. 4"-10" RPDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
4. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE PER CFPUA STANDARDS.
5. MAIN LINE 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE FLANGED OR APPROVED EQUAL.
6. CFPUA APPROVED 2 1/2" - 10" RPDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
8. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910-332-6558 OR VISIT WWW.CFPUA.ORG/COMMUNITYCOMPLIANCE AND COMPLETE THE ONLINE FORM.
9. ONLY IN-LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

DETAIL: FIRE SERVICE REDUCED PRESSURE DETECTOR ASSEMBLY	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: EM-6
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:
1. SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.
3. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
4. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO MAIN.
5. A MINIMUM PIPING LENGTH OF 1' 6" SHALL BE USED BETWEEN FITTINGS.
6. 6" SERVICES SHALL HAVE A 6" X 4" CONCENTRIC REDUCER INSTALLED ABOVE THE COMBINATION PRIOR TO ENTERING THE CAST IRON BOX.

DETAIL: SEWER SERVICE CONNECTION - SHORT-SIDE	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: S-9
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:
1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.

DETAIL: SEWER SERVICE CONNECTION - MAIN to LATERAL (LESS THAN 8' DEEP)	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: S-11
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -

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Civil Engineering / Landscape Architecture
Land Planning / Construction Management
NCBELS Firm License P-0369
P.O.Box 1172 Wilmington, NC 28402
Phone: 910-254-9333
Fax: 910-254-0502
www.cldeng.com

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925 North 4th Street

GENERAL CFPUA DETAILS

REV	DATE	DESCRIPTION	INIT

OWNER:
NEW HANOVER COMMUNITY HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

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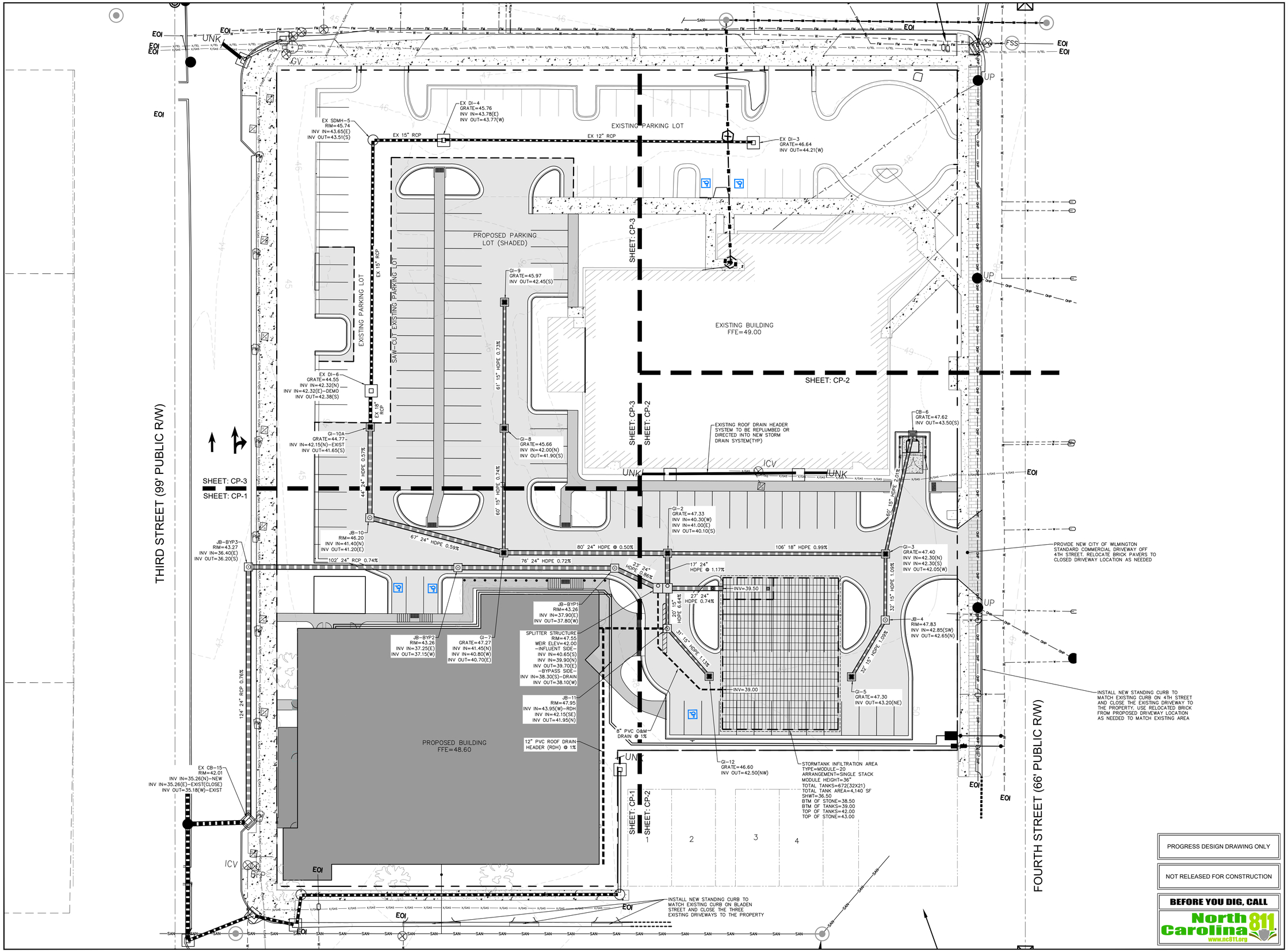
North Carolina 811
www.nc811.org

APPROVED: JRC	PROJECT: 133-01
CHECKED: JBP	SCALE: NTS
DESIGNED: JRC	RELEASE: DESIGN

SHEET
UD-3



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OVERALL STORMWATER PLAN

REV	DATE	DESCRIPTION	INIT

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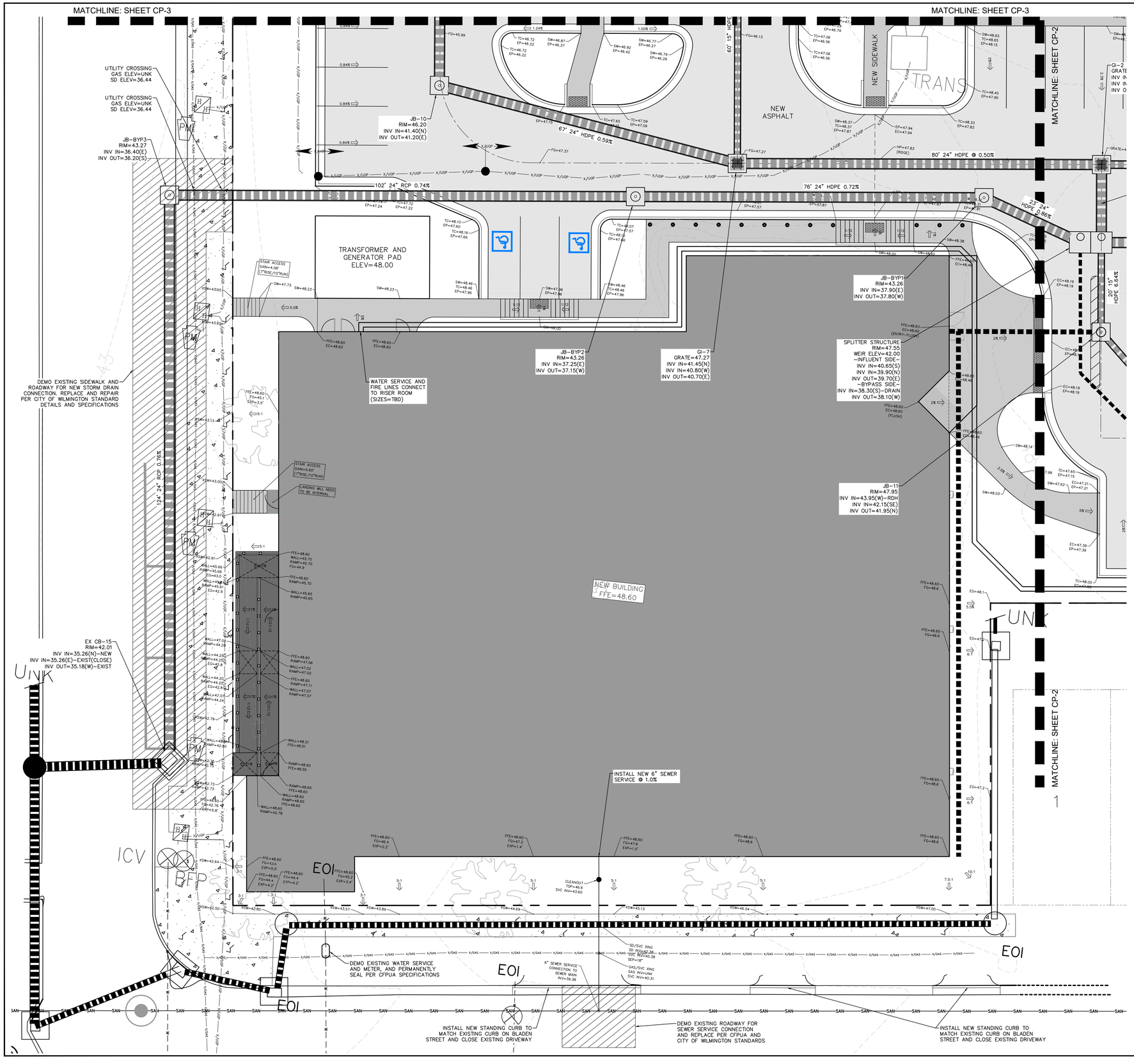
APPROVED:	JRC	PROJECT:	133-01
CHECKED:	JBP	SCALE:	1"=20'
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET

CP-0



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ENLARGED GRADING PLAN

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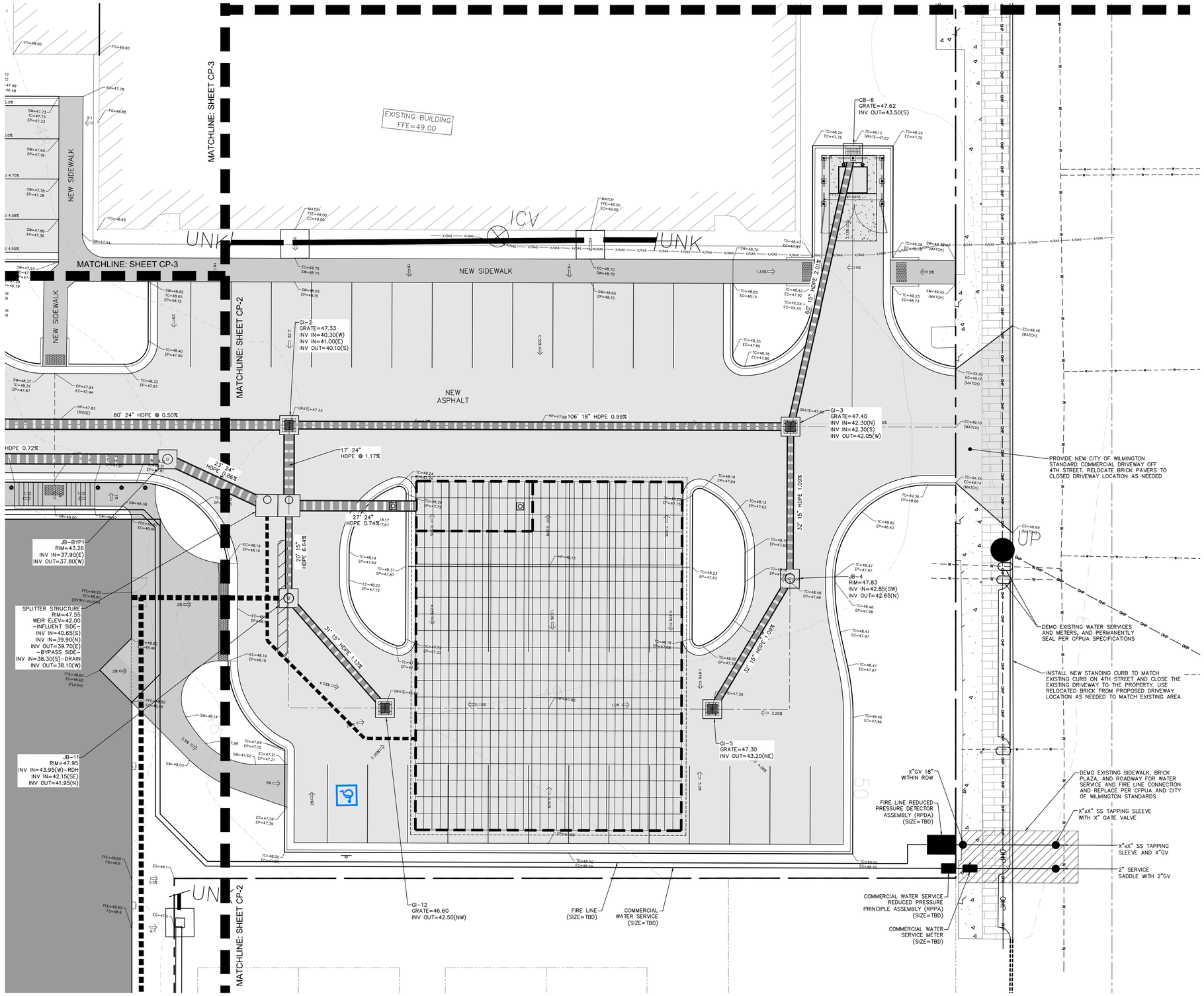
CHECKED:	JBP	SCALE:	1"=20'
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
CP-1



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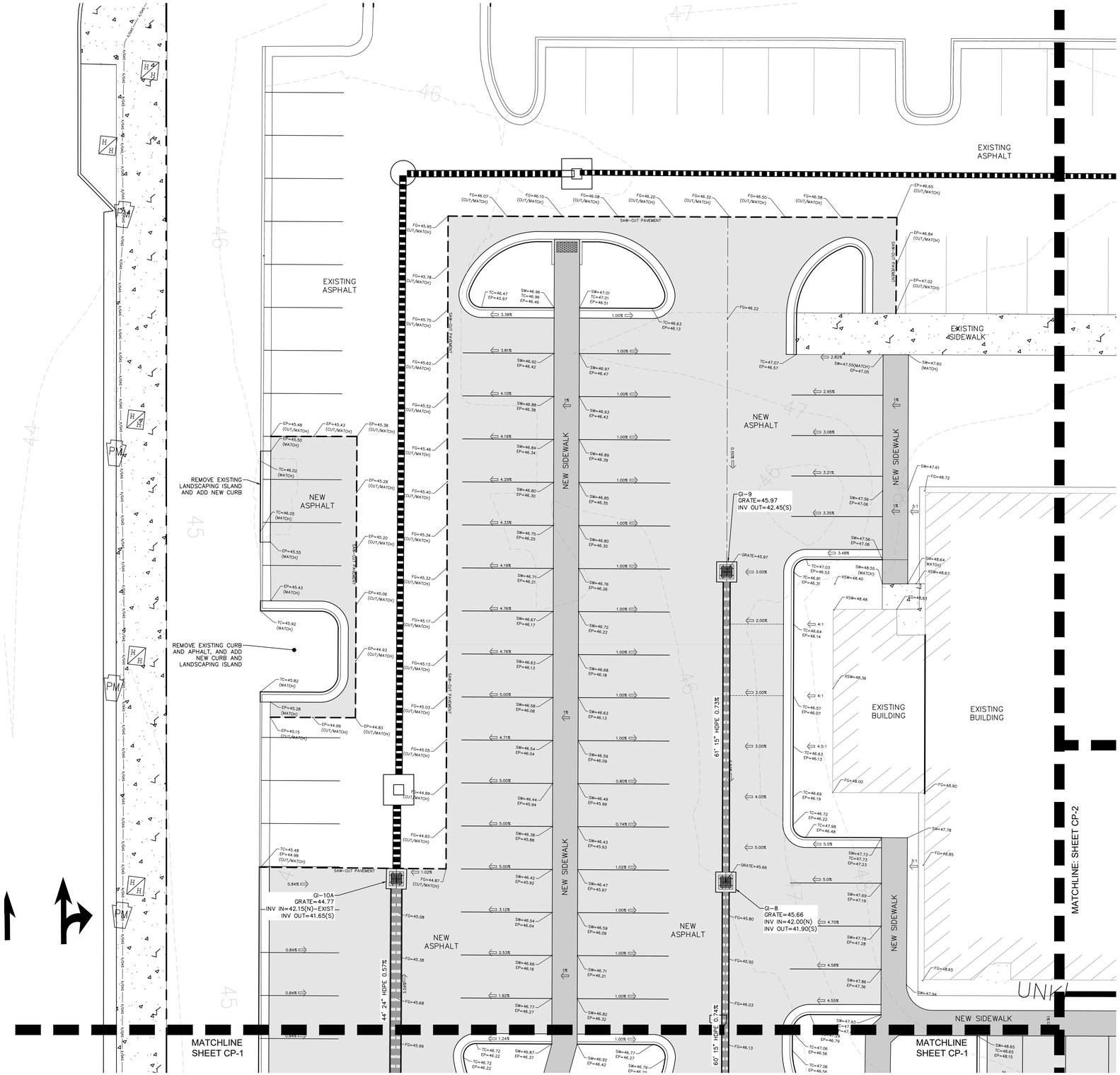
APPROVED:	JRC	PROJECT:	133-01
CHECKED:	JBP	SCALE:	1"=20'
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
CP-2



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ENLARGED GRADING PLAN

REV	DATE	DESCRIPTION	INIT

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CHECKED:	JBP	SCALE:	1"=20'
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
CP-3

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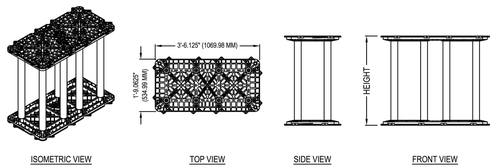

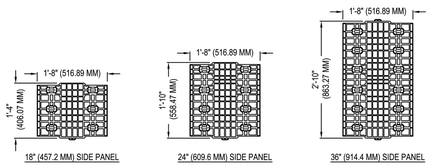

- SIDE PANELS TO BE INSTALLED ALONG SYSTEM PERIMETER, UNLESS OTHERWISE SPECIFIED.
- ALL HEIGHTS TO BE CUT FROM A 36" (914.4 MM) SIDE PANEL.

20 SERIES MODULE				
MODEL	HEIGHT (MM)	CAPACITY (M^3)	NOMINAL VOID	NOMINAL WEIGHT (KG)
2018	18" (457.2)	8.767 CF (0.2488)	94.57%	26.81 LBS. (12.16)
2024	24" (609.6)	11.789 CF (0.3346)	95.38%	29.39 LBS. (13.33)
2036	36" (914.4)	17.832 CF (0.5062)	96.19%	34.55 LBS. (15.67)

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-042

1 SW-D1 STORMTANK MODULE
20 SERIES DETAIL

4907-042 REVISION DATE 14/05/2020

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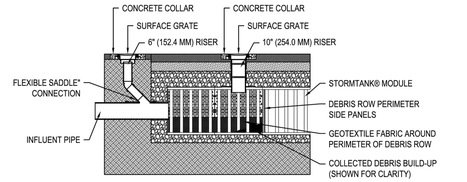
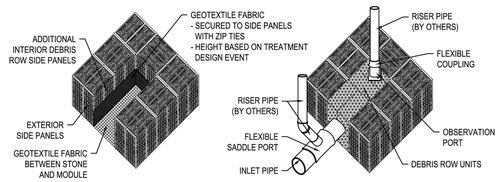


CROSS SECTION

NOTE: GEOTEXTILE HEIGHT BASED ON HYDROGRAPH ELEVATION OF SELECTED STORM OR MINIMUM 12" (304.8 MM), WHICHEVER IS GREATER, AND CONNECTED TO PANEL WITH ZIP-TIES.



ISOMETRIC

MANUFACTURER NOTES:
1. 25 SERIES MODULE USED FOR ILLUSTRATION PURPOSES ONLY, DEBRIS ROW CAN BE INSTALLED IN EITHER MODULE CONFIGURATION.
2. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.
3. CONCRETE COLLAR REQUIRED AROUND ACCESS BOXES TO MEET HS-20 AND HS-25 LOAD RATING (DESIGN BY ENGINEER OF RECORD).

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
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3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-002

2 SW-D1 STORMTANK MODULE
DEBRIS ROW DETAIL

4907-002 REVISION DATE 29/04/2020

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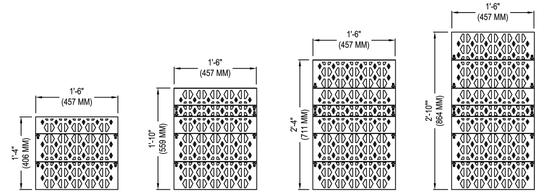

NOTES:
1. SIDE PANELS TO BE INSTALLED ALONG SYSTEM PERIMETER, UNLESS OTHERWISE SPECIFIED.
2. ALL HEIGHTS TO BE CUT FROM A 36" (914 MM) SIDE PANEL AT PRE-SCRIBED LOCATIONS.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWING.
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7. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-017.

3 SW-D1 STORMTANK MODULE
SIDE PANEL DETAIL

4907-017 REVISION DATE 16/09/2019

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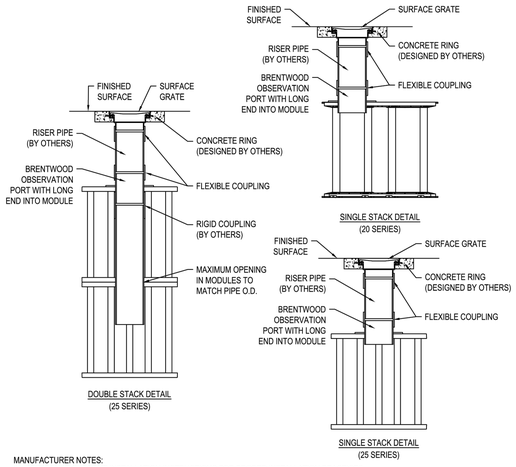

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.

NOTES:
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-009

4 SW-D1 STORMTANK MODULE
OBSERVATION PORT DETAIL

4907-009 REVISION DATE 29/04/2020

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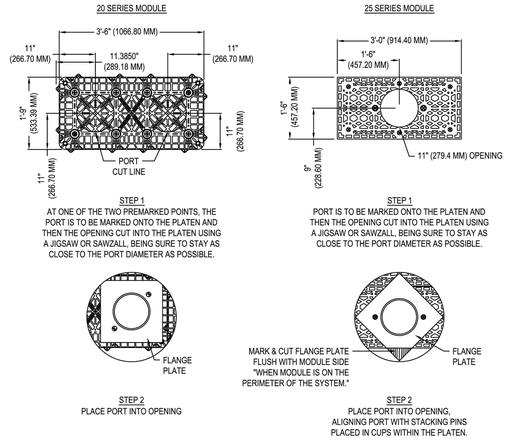

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.

NOTES:
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4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-010

5 SW-D1 STORMTANK MODULE
OBSERVATION PORT INSTALLATION DETAIL

4907-010 REVISION DATE 29/04/2020

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MedNorth Health Center
925 North 4th Street

STANDARD "STORMTANK" DETAILS

REV	DATE	DESCRIPTION	INIT

OWNER:

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408 11th STREET NORTH
WILMINGTON, NC 28401

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CHECKED:	JBP	SCALE:	NTS
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
SW-D1

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www.stormtank.com

STEP 1:
REMOVE THE SIDE PANEL FROM MODULE AND PLACE ON FLAT SURFACE. LAYOUT AND CUT OPENING INTO SIDE PANEL FOR INLET/OUTLET PORT CONNECTION.
REFER TO DIMENSIONS BELOW FOR OPENING PLACEMENT AND SEE TABLE BELOW FOR OPENING SIZE.

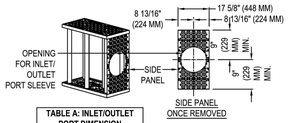
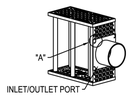


TABLE A: INLET/OUTLET PORT DIMENSION	
PORT SIZE	OPEN SIZE
12" (305 MM)	13.75" (349 MM)
14" (356 MM)	15" (381 MM)

OPENING IS SHOWN VERTICALLY CENTERED FOR VISUAL CLARITY.
PART **MUST** BE INSTALLED HORIZONTALLY CENTERED

STEP 2:
INSERT THE SHORT SIDE OF THE BRENTWOOD INLET/OUTLET PORT THROUGH THE OPENING IN THE SIDE PANEL. PLACING THE MOUNTING PLATE AGAINST THE SIDE PANEL. DRILL HOLES THROUGH THE SIDE PANEL USING THE PRE-DRILLED HOLES IN THE INLET/OUTLET PORT MOUNTING PLATE. ATTACH THE PLATE TO THE PANEL WITH NYLON ZIP TIES (MIN. 50 LB. (222N) TENSILE STRENGTH. PULL TIE UNTIL TIGHT.



STEP 3:
WRAP SPECIFIED GEOTEXTILE FABRIC AROUND THE ENTIRE INSTALLATION OF STORMTANK MODULES (REFERENCE BRENTWOOD DOCUMENT "SITE PREPARATION AND INSTALLATION INSTRUCTIONS"). CUT "X" INTO GEOTEXTILE FABRIC AT PIPE LOCATION AND PEEL EDGES OUT. CONNECT GEOTEXTILE FABRIC TO THE PORT WITH SS BANDING, WATER RESISTANT TAP OR NYLON ZIP TIE.

DETAIL "A"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-005.

1 / SW-D2 STORMTANK MODULE
INLET & OUTLET PORT INSTALLATION DETAIL

4907-005 REVISION DATE 16/09/2019

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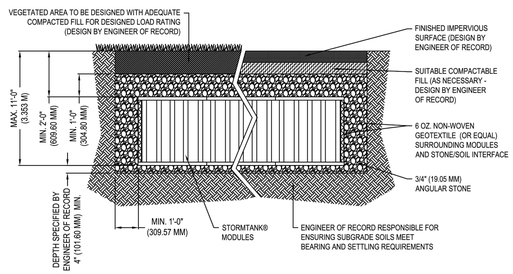

SINGLE STACK DETAIL

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-024

2 / SW-D2 STORMTANK MODULE
SINGLE-STACK INFILTRATION BASIN CROSS-SECTION DETAIL

4907-024 REVISION DATE 29/04/2020

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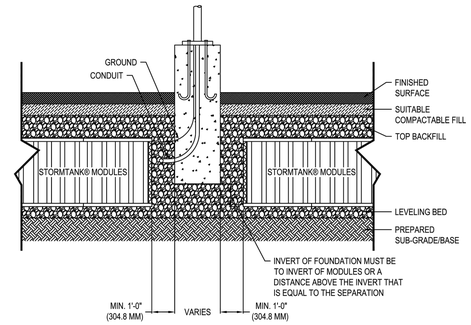
READING, PA 19611
PHONE: (610) 374-5109
www.stormtank.com



CROSS SECTION

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-007

3 / SW-D2 STORMTANK MODULE
LIGHT FOUNDATION DETAIL

4907-007 REVISION DATE 29/04/2020

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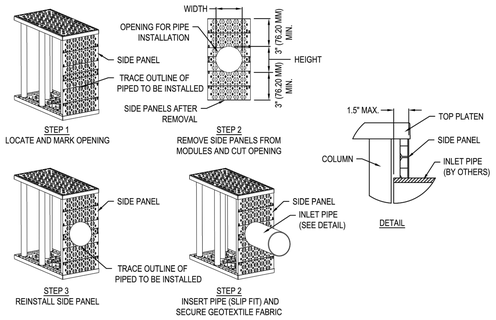

DIMENSION TABLE				
MODULE 20 SERIES	MODULE 20 SERIES	MAX. OPENING HEIGHT (MM)	SINGLE PANEL MAX. OPENING WIDTH (MM)	DOUBLE PANEL MAX. OPENING WIDTH (MM)
--	2512	6" (152.4)	15" (381.0)	30" (762.0)
2018	2518	12" (304.8)	15" (381.0)	30" (762.0)
2024	2524	18" (457.2)	15" (381.0)	30" (762.0)
--	2530	24" (609.6)	15" (381.0)	30" (762.0)
--	2533	27" (685.8)	15" (381.0)	30" (762.0)
2036	2536	30" (762.0)	15" (381.0)	30" (762.0)

MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.
2. INFLUENT AND EFFLUENT ORIFICE CONFIGURATIONS MAY VARY. ROUND, SQUARE, RECTANGULAR AND MULTI-STAGE ARE ACCEPTABLE, AS LONG AS MEETING DIMENSION AND LOCATION REQUIREMENTS.
3. IF OPENING IS GREATER THAN AS PERMITTED IN THE TABLE ABOVE, THE CONNECTION WILL NEED SPLIT INTO A MANIFOLD.
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-018

4 / SW-D2 STORMTANK MODULE
SMALL DIAMETER PLASTIC PIPE CONNECTION DETAIL

4907-018 REVISION DATE 29/04/2020

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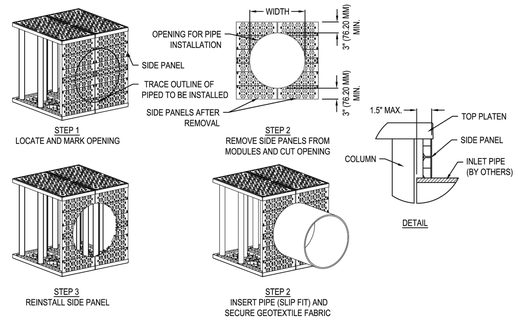

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MANUFACTURER NOTES:
1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.
2. INFLUENT AND EFFLUENT ORIFICE CONFIGURATIONS MAY VARY. ROUND, SQUARE, RECTANGULAR AND MULTI-STAGE ARE ACCEPTABLE, AS LONG AS MEETING DIMENSION AND LOCATION REQUIREMENTS.
3. IF OPENING IS GREATER THAN AS PERMITTED IN THE TABLE ABOVE, THE CONNECTION WILL NEED SPLIT INTO A MANIFOLD.
NOTES:
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2. DO NOT SCALE DRAWING.
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4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-006

5 / SW-D2 STORMTANK MODULE
LARGE DIAMETER PIPE CONNECTION DETAIL

4907-006 REVISION DATE 29/04/2020

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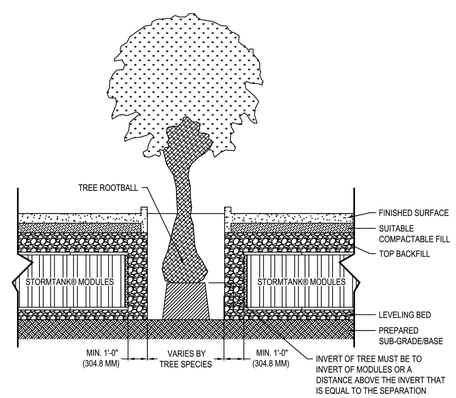

CROSS SECTION

MANUFACTURER NOTES:
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NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
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4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 4907-044

6 / SW-D2 STORMTANK MODULE
TREE SURROUND DETAIL

4907-044 REVISION DATE 29/04/2020

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Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

MedNorth Health Center
925 North 4th Street

STANDARD "STORMTANK" DETAILS

REV	DATE	DESCRIPTION	INIT

OWNER:
NEW HANOVER COMMUNITY HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

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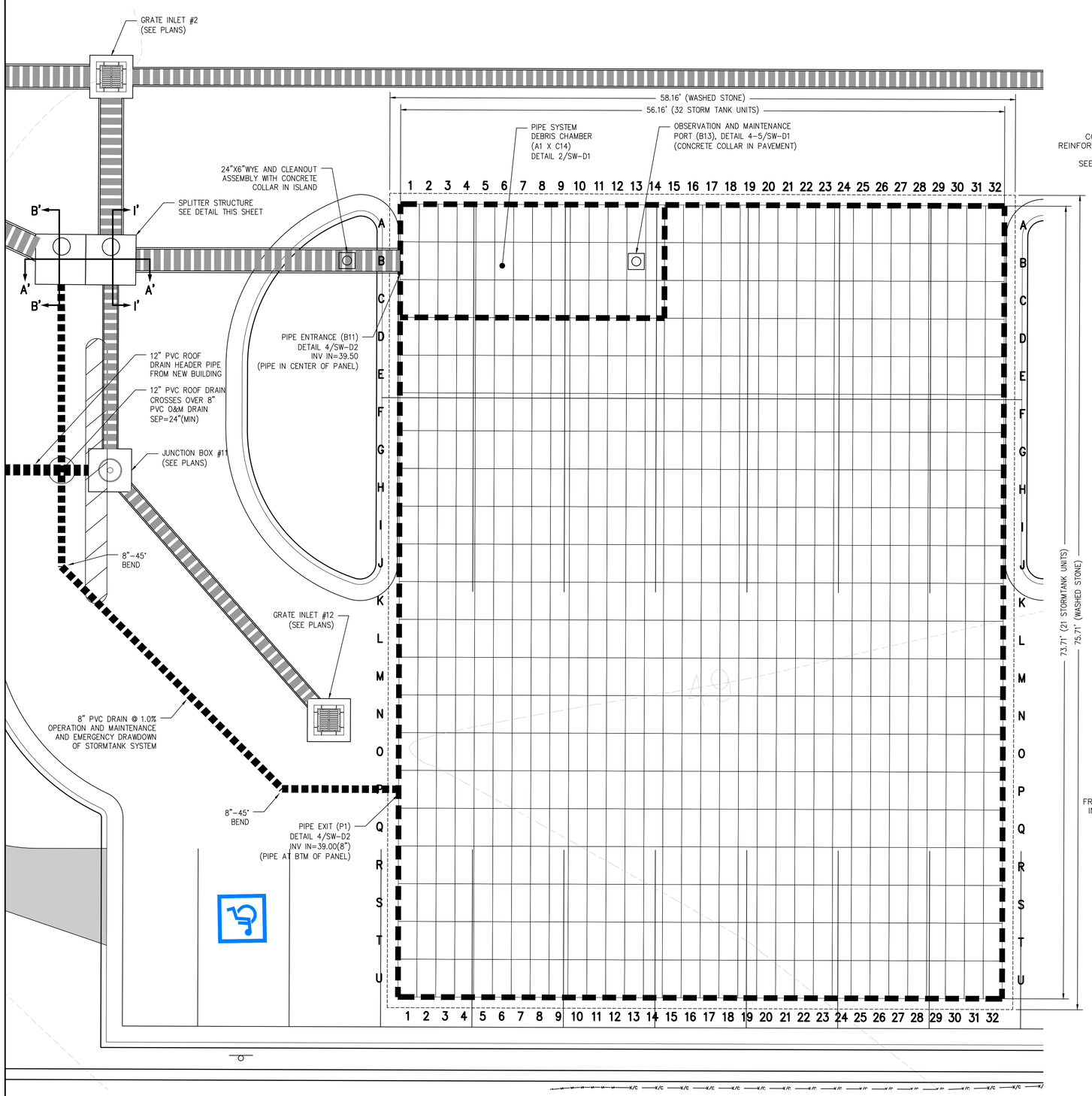
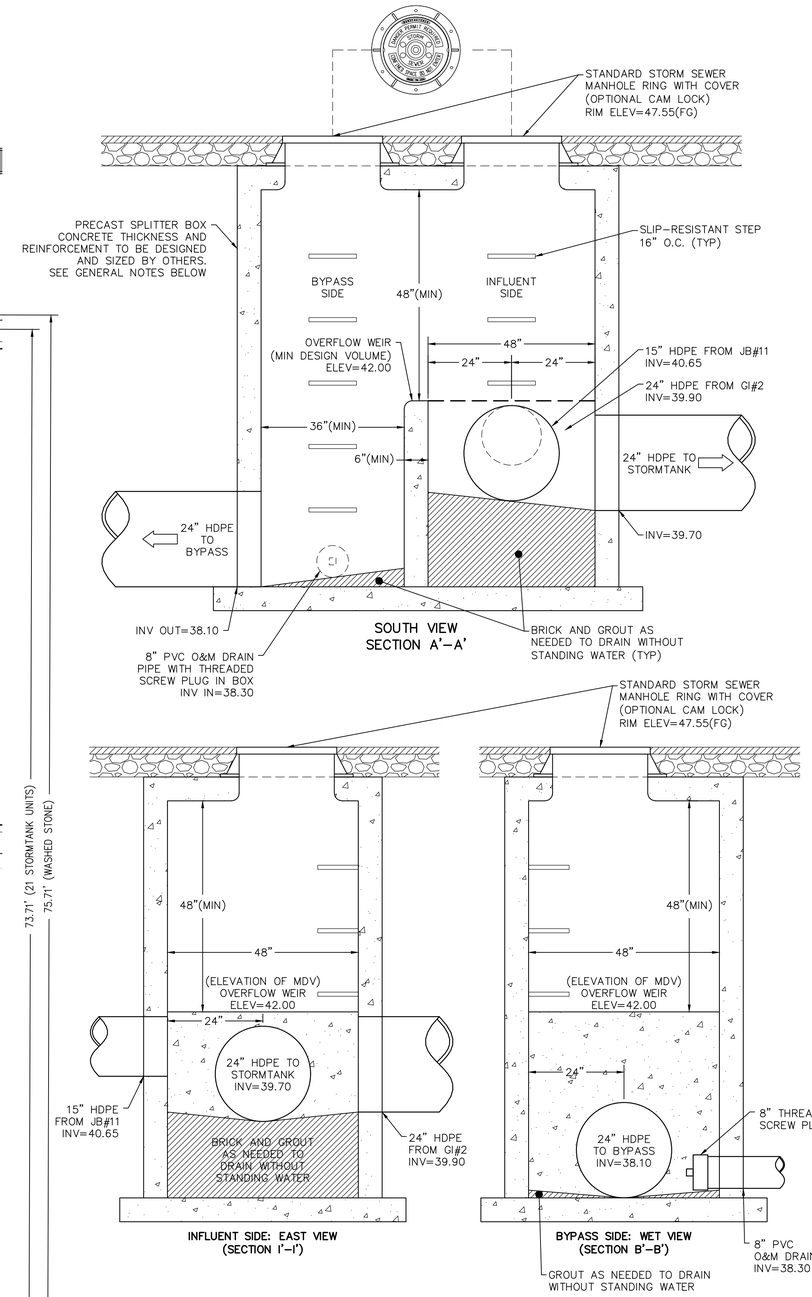
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
SW-D2



STORMTANK INFILTRATION AREA DETAIL
NOT TO SCALE
1 SW-D3



SPLITTER STRUCTURE DETAIL
NOT TO SCALE
2 SW-D3

PRE-CAST GENERAL NOTES:

1. USE 4000 PSI CONCRETE AND PROVIDE FOR H-20 LOADING.
2. PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
3. PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
4. PROVIDED FORMED OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH NON-SHRINKING HYDRAULIC CEMENT.
5. ALL ELEMENTS PRECAST TO MEET ASTM C913.
6. SET ON 6" WASHED STONE BASE.
7. FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
8. PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH OSHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
9. WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
10. STEAL JOINTS WITH FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B. TYPE B - BUTYL RUBBER.
11. USE STORM DRAIN RING AND COVER COMPLIANT TO CITY OF WILMINGTON STANDARD DETAIL SD 14-02.
12. GROUT INVERT TO PROVIDE SMOOTH FLOW.

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Fax: 910-254-0502
www.cldeng.com

MedNorth Health Center
925 North 4th Street

STORMWATER DETAILS

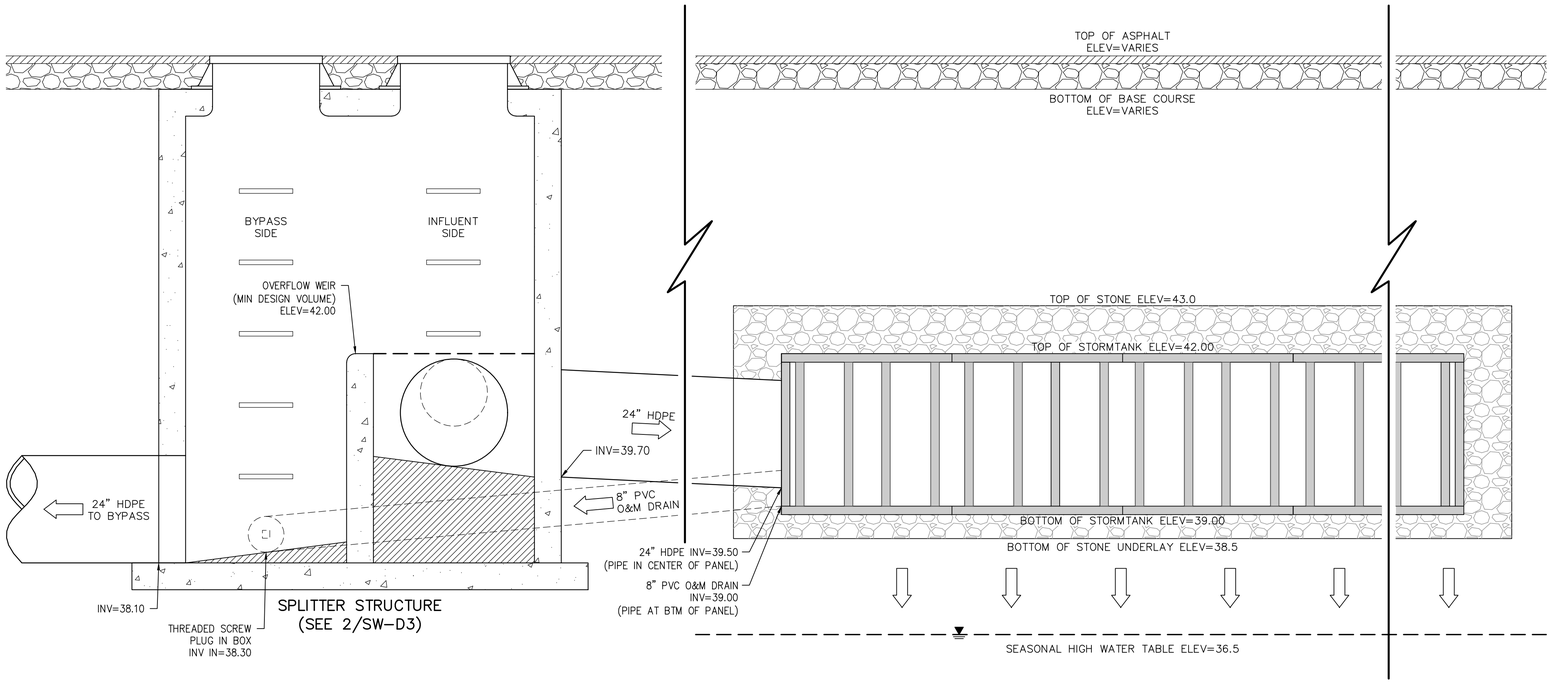
REV	DATE	DESCRIPTION	INIT

OWNER:

NEW HANOVER COMMUNITY
HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

APPROVED:	JRC	PROJECT:	133-01
CHECKED:	JBP	SCALE:	NTS
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
SW-D3



SCHEMATIC BASIN CROSS-SECTION
NOT TO SCALE

1
SW-D4

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Phone: 910-254-9333
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MedNorth Health Center

925 North 4th Street

STORMWATER DETAILS

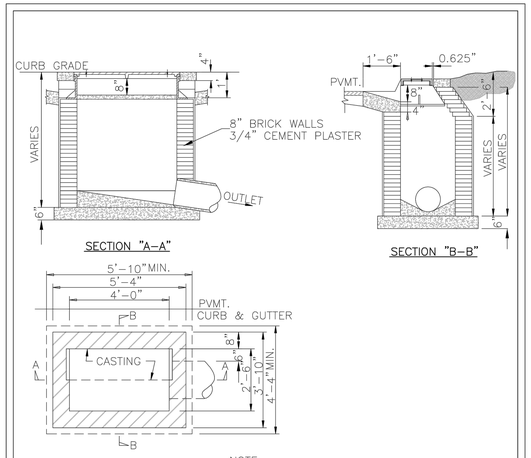
REV	DATE	DESCRIPTION	INIT

OWNER:

NEW HANOVER COMMUNITY
HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

APPROVED:	JRC	PROJECT:	133-01
CHECKED:	JBP	SCALE:	NTS
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
SW-D4



NOTE:
1. 4" DEEP X 8" WIDE CONCRETE COPING ALL AROUND BASIN CASTING.
2. ALL CONCRETE TO BE CLASS "A"
3. FOR CASTING DETAIL SEE SD 2-16

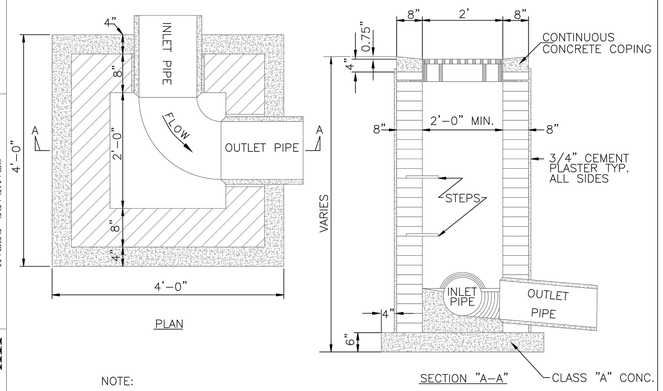
STANDARD DETAIL

CATCH BASIN

DATE: 2006
DRAWN BY JSR/CMR
CHECKED BY B.P., P.E.
SCALE NOT TO SCALE

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-01



NOTE:
FRAME AND GRATE TO BE STANDARD CITY OF WILMINGTON CAST IRON FRAME AND GRATE PER SD 14-04

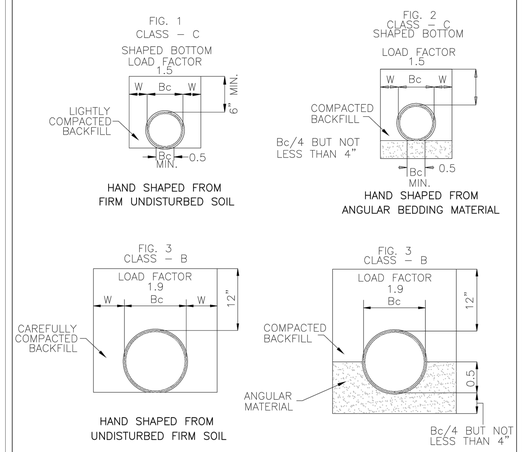
DATE: 2001
DRAWN BY JSR
CHECKED BY B.P., P.E.
SCALE NOT TO SCALE

STANDARD DETAIL

DROP INLET

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 2-02



STANDARD DETAIL

GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C)

DATE: 2001
DRAWN BY JSR/CMR
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SCALE NOT TO SCALE

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WILMINGTON, NC 28402
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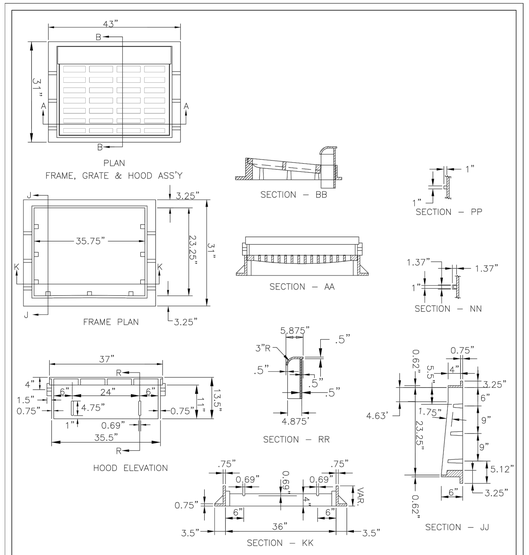
SD 2-17



NOTE: USE TYPE "E","F",& "G" GRATE UNLESS OTHERWISE INDICATED

STANDARD DETAIL

CATCH BASIN CASTING FOR 24" HOOD AND GRATE

DATE: 2001
DRAWN BY JSR/CMR
CHECKED BY B.P., P.E.
SCALE NOT TO SCALE

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CITY OF WILMINGTON ENGINEERING
PO BOX 1810
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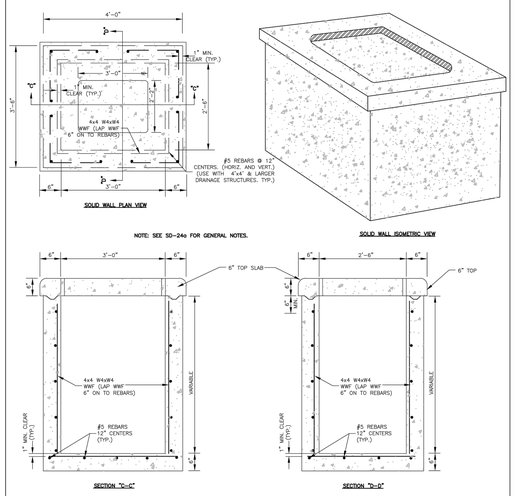
SD 2-21



STANDARD DETAIL

PRECAST DRAINAGE STRUCTURE SOLID WALL

DATE: 2001
DRAWN BY JSR/CMR
CHECKED BY B.P., P.E.
SCALE NOT TO SCALE

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CITY OF WILMINGTON ENGINEERING
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WILMINGTON, NC 28402
(910) 341-7807

SD 2-24

GENERAL NOTES:

* USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185,
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
* PROVIDE FORMED OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH HYDRAULIC CEMENT.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* SET ON 6" WASHED STONE
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
* PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED,
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B – BUTYL RUBBER.
* USE FRAME AND GRATE AS PER SD 14-04
* GROUT INVERT TO PROVIDE SMOOTH FLOW

STANDARD DETAIL

PRECAST DRAINAGE STRUCTURE GENERAL NOTES

DATE: 08/2020
DRAWN BY JSR/CMR
CHECKED BY B.P., P.E.
SCALE NOT TO SCALE

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CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
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SD 2-24a

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925 North 4th Street

GENERAL CITY OF WILMINGTON DETAILS

REV	DATE	DESCRIPTION	INIT

OWNER:

NEW HANOVER COMMUNITY
HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

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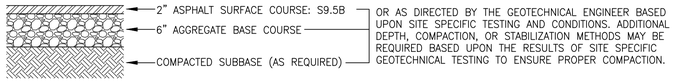
CHECKED:	JBP	SCALE:	NTS
DESIGNED:	JRC	RELEASE:	DESIGN

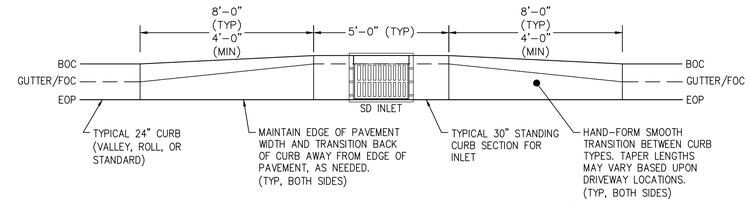
SHEET
UD-3



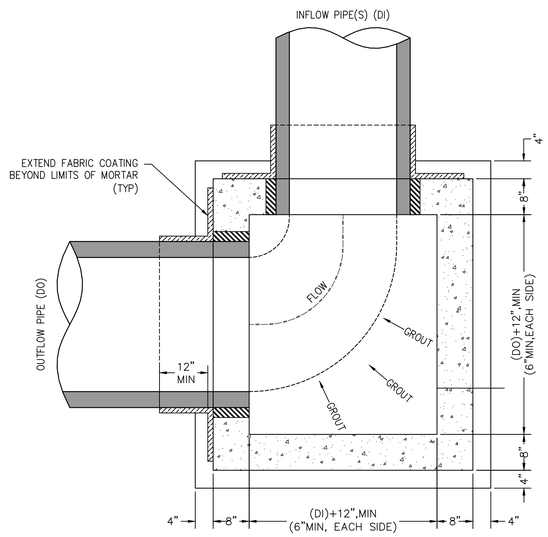
LIGHT-DUTY FLEXIBLE PAVEMENT SCHEDULE (ROADS AND ALLEYWAYS)

LIGHT-DUTY (RIGID) CONCRETE SECTION (MISCELLANEOUS)

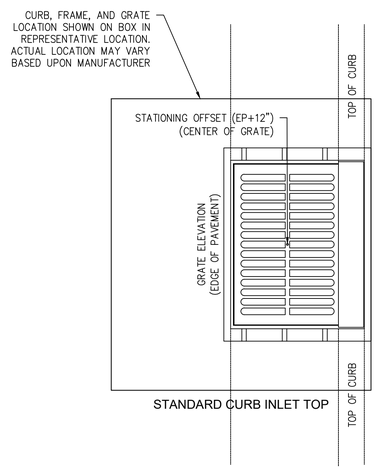
RIGID AND FLEXIBLE PAVEMENTS SECTIONS (1 / CD-1)
NOT TO SCALE



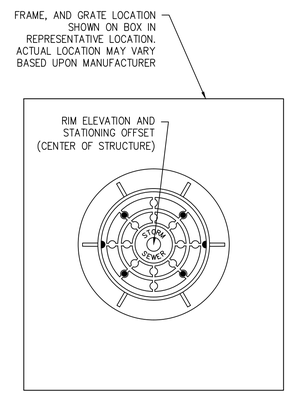
CURB TRANSITION AT INLET DETAIL (2 / CD-1)
NOT TO SCALE



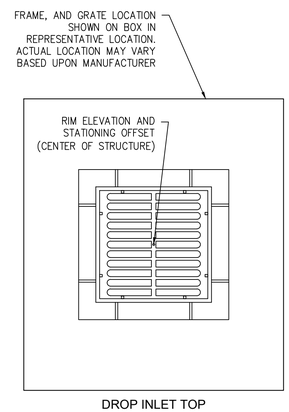
PLAN VIEW SECTION



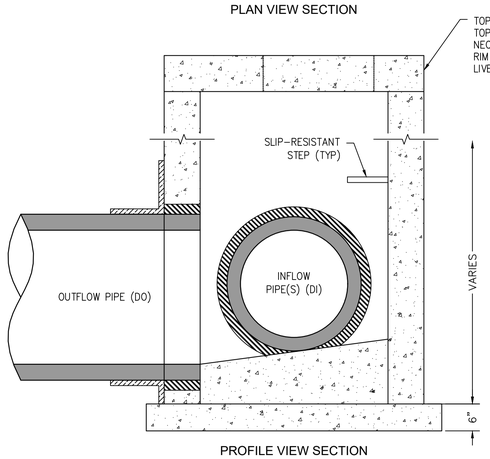
STANDARD CURB INLET TOP



STORMWATER JUNCTION BOX TOP



DROP INLET TOP



PROFILE VIEW SECTION

NOTES:

STRUCTURE NOTES:
1. STRUCTURE MAY BE PRECAST OR CAST IN PLACE BUT SHALL MEET NCDOT STANDARDS.
2. STRUCTURE MAY BE CONSTRUCTED FROM 4"X4"X8" OR 4"X8"X16" SOLID CONCRETE BLOCK.
3. STEPS SHALL BE INSTALLED IN ALL BOXES OVER 3'-6" IN DEPTH AS MEASURED FROM THE TOP OF THE GRATE TO THE BOTTOM INVERT OF THE BOX.
4. FOOTER SHALL BE 3000 PSI CONCRETE, MINIMUM.

FABRIC & GROUT CONNECTION TO STRUCTURE
1. PLACE BITUMINOUS COATING (OR APPROVED ADHESIVE) AROUND PIPE, WRAP AND SECURE FABRIC AROUND PIPE LEAVING EXCESS FABRIC TO PRESS AGAINST THE STRUCTURE.
2. INSERT PIPE INTO STRUCTURE, WITH PIPE RESTING ON BEDDING. THE PIPE SHOULD BE IN THE APPROXIMATE CENTER OF THE OPENING.
3. GROUT PIPE INTO CONCRETE STRUCTURE WITH NON-SHRINK GROUT. SOLID MASONRY UNITS, FULLY GROUTED INTO PLACE, MAY BE USED TO HELP FILL THE VOIDS.
4. PLACE BITUMINOUS COATING (OR APPROVED ADHESIVE) ON THE STRUCTURE SURFACE, THEN PRESS EXCESS FABRIC IN PLACE.

STORMWATER BOX DETAIL (3 / CD-1)
NOT TO SCALE

PROGRESS DESIGN DRAWING ONLY

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Land Planning / Construction Management
NCBELS Firm License P-0369
P.O.Box 1172 Phone: 910-254-9333
Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

MedNorth Health Center
925 North 4th Street

CONSTRUCTION DETAILS

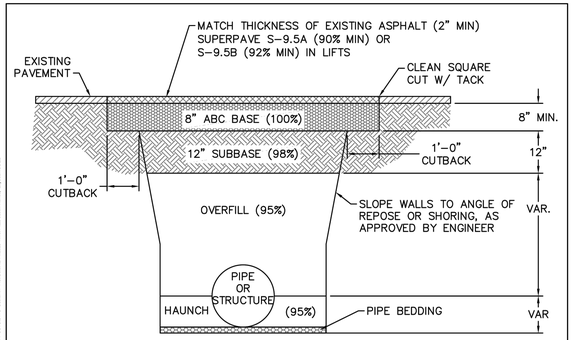
REV	DATE	DESCRIPTION	INIT

OWNER:

NEW HANOVER COMMUNITY HEALTH CNTR. INC.
408 11th STREET NORTH
WILMINGTON, NC 28401

APPROVED:	JRC	PROJECT:	133-01
CHECKED:	JBP	SCALE:	NTS
DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
CD-1

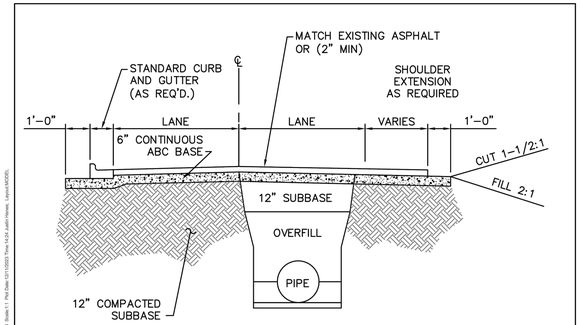


NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57 STONE, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS, AND ASTM D-698-C FOR ABC STONE, AND BY NUCLEAR GAGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MINIMUM REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

DETAIL: CITY OF WILMINGTON PAVEMENT REPAIRS-UTILITY CUTS	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-1
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -

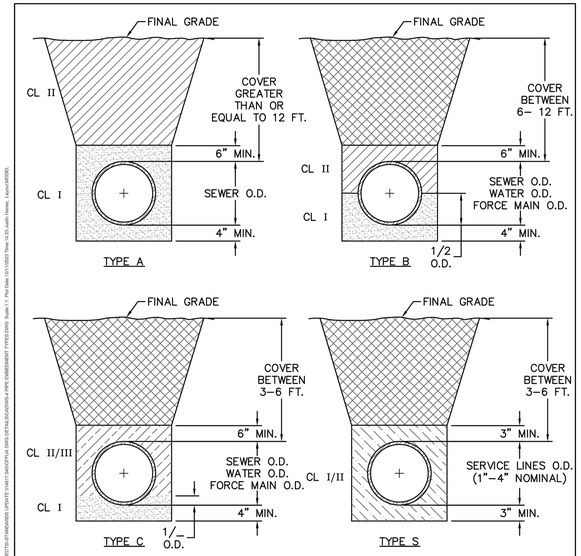


NOTES:

1. PAVEMENT RESTORATION DESIGN IS DEPENDEND ON CITY OF WILMINGTON STREET CUT POLICY AND PERMITTED CONDITIONS.
2. PIPE TRENCH AND COMPACTION REQUIREMENTS PER SPECIFICATIONS. SEE WS-1.

(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MINIMUM REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

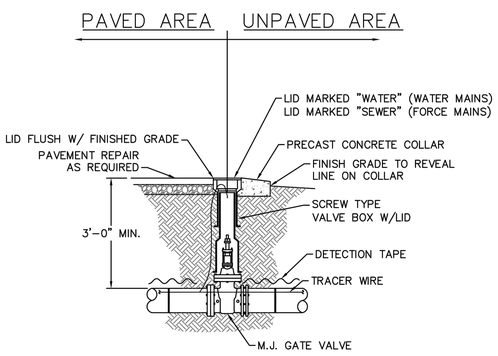
DETAIL: CITY OF WILMINGTON TYPICAL ROAD REBUILD	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-2
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



COMPACTION NOTES:

1. ALL ZONES: 95% STD EFFORT PER ASTM D698, EXCEPT AS STATED IN COMPACTION NOTE 2.
2. 12" SUBGRADE UNDER PAVEMENT: 98% STD EFFORT PER ASTM D698.
3. BEDDING REQUIREMENTS FOR SEWER FORCE MAINS AND WATER MAINS WITHIN TYPE A THROUGH TYPE S CONDITIONS, SHALL BE FOLLOWED IF IT HAS BEEN DETERMINED THAT UNSUITABLE SOILS EXIST WITHIN THE EXCAVATED TRENCH. OTHERWISE BEDDING FOR SEWER FORCE MAINS AND WATER MAINS MAY BE CLASS I OR CLASS II.

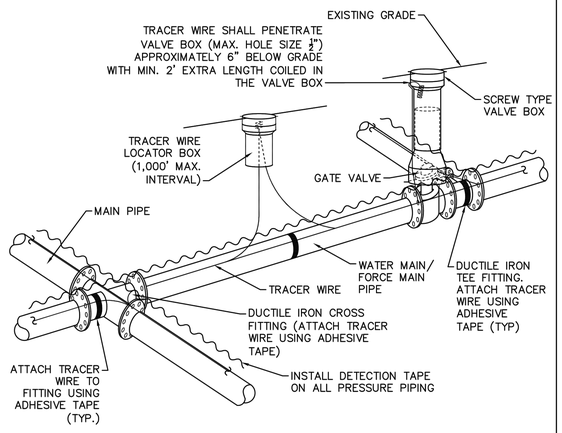
DETAIL: PIPE EMBEDMENT TYPES	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-4
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:

1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2-FEET EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

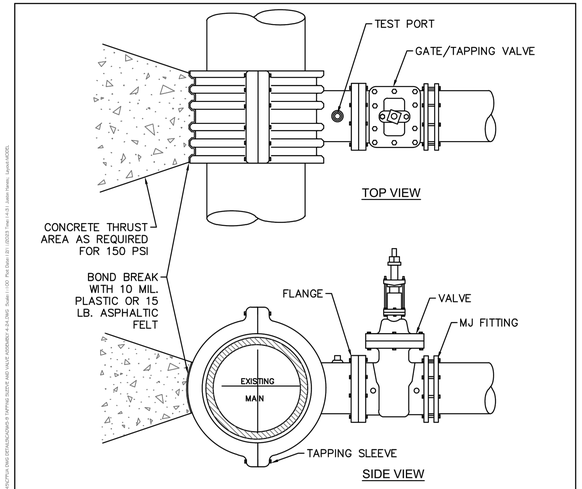
DETAIL: VALVE DETAIL	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-5
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:

1. TRACER WIRE SHALL BE INSTALLED PER THE CFPUA MSM.
2. WIRE SHALL BE STRAPPED TO ALL PVC PIPING WITH ADHESIVE TAPE AT 12 FOOT INTERVALS.
3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH ADHESIVE TAPE.
4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KITS.

DETAIL: TRACER WIRE DETAIL	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-6
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:

1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. PIPE & FITTING TO BE WRAPPED IN 10 MIL. PLASTIC OR 15 LB. ASPHALTIC FELT PRIOR TO THRUST BLOCK BEING POURED.
3. TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
4. BRANCH SHALL NOT EQUAL RUN DIAMETER UNLESS APPROVED BY CFPUA ENGINEERING.

DETAIL: TAPPING SLEEVE AND VALVE ASSEMBLY (4"-24")	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-9
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -

CLD Engineering, PLLC
Civil Engineering / Landscape Architecture
Land Planning / Construction Management
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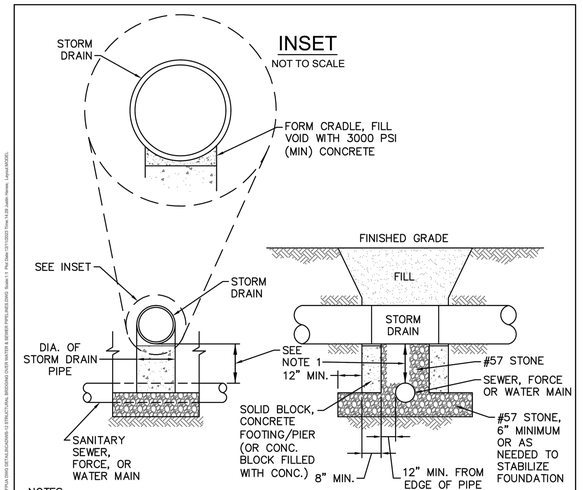
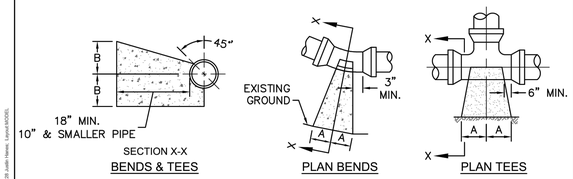


NOTES:

1. PIPELINE BRIDGING REQUIRED FOR VERTICAL SEPARATION LESS THAN 18" PER STATE STANDARDS. A MINIMUM SEPARATION OF 6" REQUIRED BETWEEN ANY TWO UTILITY PIPES.
2. NO PIPE JOINTS ON STORM DRAINS BETWEEN PIERS.
3. DETAIL SHALL ONLY BE UTILIZED ON PIPES 24" AND LESS IN DIAMETER. FOR PIPES GREATER THAN 24" IN DIAMETER, THE ENGINEER SHALL DESIGN A CUSTOM STRUCTURAL BRIDGING DETAIL TO SUPPORT THE LARGER PIPES, FOR CFPUA'S REVIEW AND APPROVAL.

DETAIL: STRUCTURAL BRIDGING OVER WATER & SEWER PIPELINES		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-12
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



SIZE	90 BENDS		45 BENDS		22-1/2 BENDS		TEES/PLUGS		45 VERT. BENDS
	A	B	A	B	A	B	A	B	
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	9"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	16"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	26"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

NOTES:

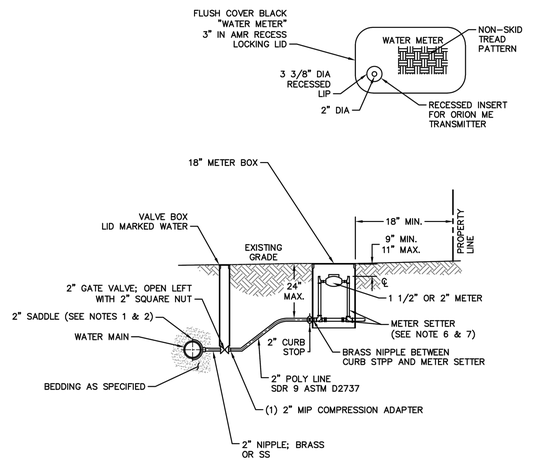
1. THRUST BLOCKING IS NOT PERMITTED EXCEPT IN SPECIAL INSTALLATIONS WHERE DESIGNED BY ENGINEER AND APPROVED BY CFPUA.
2. ALLOW 7-DAY MINIMUM CONCRETE CURE TIME BEFORE PLACING LOAD ON THRUST BLOCK
3. BASED ON 150 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY.
4. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
5. PIPE & FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC PRIOR TO THRUST BLOCK BEING POURED.

DETAIL: THRUST BLOCK		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-13
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
2. SEWER MANHOLE INSERTS REQUIRED AT ALL MANHOLES. STAINLESS STEEL MANHOLE INSERTS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
11. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
12. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS
13. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED
14. WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.
15. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.

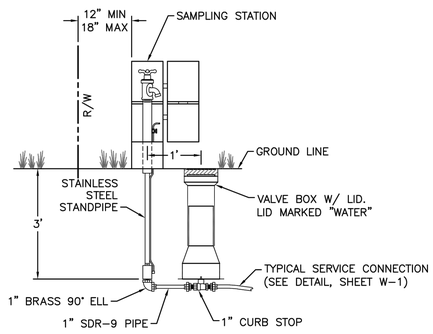
DETAIL: STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: WS-14
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



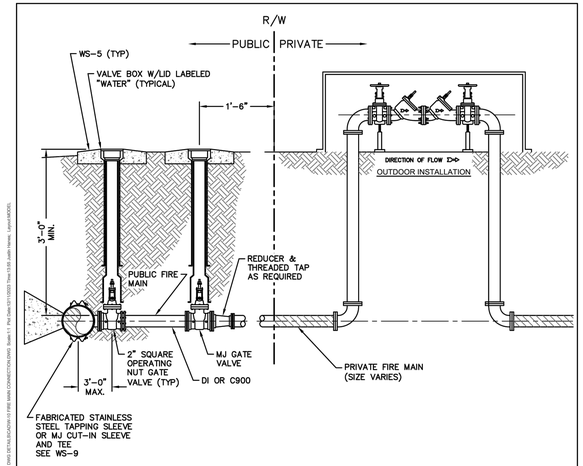
NOTES:

1. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE THE RIGHT-OF-WAY LINE.
2. SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
3. METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
4. NON-TRAFFIC METER BOXES SHALL BE PER CFPUA STANDARD MATERIAL.
5. 3" CLEAN FILL REQUIRED ALL AROUND 2" POLY SERVICE LINE.
6. 1 1/2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
7. 2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
8. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNERS.
9. SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.
7. TRACING WIRE SHALL BE INSTALLED WITH ADHESIVE TAPE AT 12' INTERVALS AND EXTEND A MINIMUM OF 2' OUTSIDE OF METER BOX PER CFPUA DETAIL WS-6.

DETAIL: COMMERCIAL WATER SERVICE - 1 1/2 OR 2-INCH METERS		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: W-3
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



DETAIL: SAMPLING STATION		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: W-8
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -



NOTES:

1. A GATE VALVE IS REQUIRED AT THE CFPUA FIRE MAIN TAP LOCATION.
2. WHEN THE FIRE MAIN IS FROM OPPOSITE SIDE OF NC-DOT ROAD OR CITY STREET, A SECOND VALVE IS REQUIRED 18" INSIDE PUBLIC R/W.
3. IF TAPPING VALVE IS LESS THAN 5-FEET FROM R/W THEN SECOND VALVE AT R/W IS NOT REQUIRED.

DETAIL: FIRE MAIN CONNECTION		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	DETAIL NO: W-10
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/2024		SHEET NO: -

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DESIGNED:	JRC	RELEASE:	DESIGN

SHEET
UD-2

CODE SUMMARY:

1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE, IBC 2015, WITH AMENDMENTS. ASCE 7-16 HAS BEEN UTILIZED IN ITS ENTIRETY, IN LIEU OF ASCE 7-10

DESIGN LOADS:

ROOF -	LIVE		20	PSF	
	SNOW	P_g GROUND	10	PSF	
		P_f FLAT ROOF LOAD	12	PSF	INCLUDES 5 PSF RAIN SURCHARGE
		C_e EXPOSURE FACTOR	1.0		
		I_S IMPORTANCE FACTOR	1.0		
		C_t TEMPERATURE FACTOR	1.0		
	DEAD		20	PSF	TOTAL
			2.0	PSF	ROOFING & INSULATION
			2.0	PSF	METAL ROOF DECKING
			5.0	PSF	STEEL FRAMING
			6.0	PSF	M-E-P-S
			5.0	PSF	MISC.
S.O.M.D.-	LIVE		80	PSF	
	DEAD		75	PSF	
S.O.G. -	LIVE		100	PSF	
	DEAD		65	PSF	SELF WEIGHT OF CONCRETE

WIND:

VELOCITY			
	V_{ult}	145 MPH	
	V_{asd}	112.3 MPH	
RISK CATEGORY		II	ALL MWFRS AND C & C DESIGN PRESSURES SHOWN ARE ULTIMATE WIND LOAD VALUES
EXPOSURE CATEGORY		C	
INTERNAL PRESSURE COEFFICIENT		+/-0.18	

P DESIGN PRESSURE FOR MAIN WIND FORCE RESISTING SYSTEM

HORIZONTAL ZONE A	48.43	PSF	ROOF DECK, FASTENERS, & FASTENING PATTERNS HAVE BEEN DESIGNED ASSUMING UNIFORM UPLIFT PRESSURES. ROOF MEMBRANE & INSULATION ATTACHMENTS SHALL BE DESIGNED TO TRANSFER UNIFORM UPLIFT PRESSURES.
HORIZONTAL ZONE B	-25.09	PSF	
HORIZONTAL ZONE C	32.12	PSF	
HORIZONTAL ZONE D	- 14.94	PSF	
VERTICAL ZONE E	-58.15	PSF	
VERTICAL ZONE F	-33.06	PSF	
VERTICAL ZONE G	-40.46	PSF	
VERTICAL ZONE H	-25.59	PSF	
OVERHANG ZONE E_{oh}	-81.42	PSF	
OVERHANG ZONE G_{oh}	-63.73	PSF	

P DESIGN PRESSURE FOR COMPONENTS & CLADDING - NEGATIVE PRESSURE TABLE

		EFFECTIVE AREA			
		10SF	20SF	50SF	100SF
ROOF ZONE	1	-87.51	-81.71	-74.10	-68.37
ROOF ZONE	1'	-50.24	-50.24	-50.24	-50.24
ROOF ZONE	2	-115.42	-107.95	-98.17	-90.77
ROOF ZONE	3	-157.25	-142.46	-122.82	-107.95
WALL ZONE	4	-59.52	-57.13	-53.87	-51.33
WALL ZONE	5	-73.52	-68.51	-61.99	-57.13
OVERHANG ZONE	1 & 1'	-79.10	-77.72	-75.84	-74.46
OVERHANG ZONE	2_{oh}	-107.01	-97.15	-84.10	-74.17
OVERHANG ZONE	3_{oh}	-148.92	-131.59	-108.68	-91.42

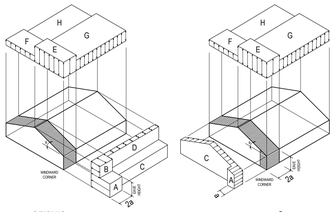
IN ACCORDANCE WITH ASCE 7, THE DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING SHALL NOT BE LESS THAN THE VALUES SHOWN IN THE POSITIVE AND NEGATIVE PRESSURE TABLES, OR A NET ULTIMATE PRESSURE OF 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE

P DESIGN PRESSURE FOR COMPONENTS & CLADDING - POSITIVE PRESSURE TABLE

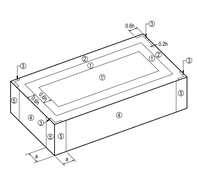
	EFFECTIVE AREA			
	10SF	20SF	50SF	100SF
ALL ROOF ZONES	22.33	20.88	19.14	17.69
ALL WALL ZONES	54.96	52.49	49.16	46.69

PERIMETER WIDTH	a	=	13.75	FT
WIND BASE SHEAR	V_x	=	190.42	K
	V_y	=	199.18	K

MAIN WIND FORCE RESISTING SYSTEM DIAGRAMS



COMPONENTS & CLADDING ZONE DIAGRAM



SEISMIC:

	S_s	=	0.156
	S_1	=	0.068
	S_{ds}	=	0.166
	S_{d1}	=	0.109
SEISMIC RISK CATEGORY			II
IMPORTANCE FACTOR, I_E			1.0
SITE CLASS			D
DESIGN CATEGORY			B
SEISMIC FORCE RESISTING SYSTEM			
X - DIRECTION			ORDINARY PRECAST SHEARWALLS
Y - DIRECTION			ORDINARY PRECAST SHEARWALLS
RESPONSE MODIFICATION FACTOR, R			
X - DIRECTION			3.00
Y - DIRECTION			3.00
C_s, SEISMIC RESPONSE COEFFICIENT			
X - DIRECTION			0.0555
Y - DIRECTION			0.0555
ANALYSIS PROCEDURE			EQUIVALENT LATERAL FORCE
SEISMIC BASE SHEAR	V_x	=	201.62 K
	V_y	=	201.62 K

2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH SITE, ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS, AND APPLICABLE INFORMATION FURNISHED BY MATERIALS AND EQUIPMENT SUPPLIERS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.

3. CONFIRM ALL DIMENSIONS WITH ARCHITECTURAL AND SITE DRAWINGS PRIOR TO CONSTRUCTION.

4. PROOF-ROLL SUBGRADE AND SUBBASE BELOW BUILDING SLABS WITH HEAVY PNEUMATIC-TIRED TRUCK TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. PROOF-ROLL WITH A LOADED, TANDEM-AXLE TRUCK WEIGHING AT LEAST 15 TONS. COMPLETELY PROOF-ROLL IN ONE DIRECTION AND REPEAT IN THE PERPENDICULAR DIRECTION. LIMIT VEHICLE SPEED TO 5mph. RECONSTITUTE ANY AREAS THAT PUMP OR RUT 1/2 INCH OR MORE, THEN REPERFORM THE PROOF-ROLL IN THOSE AREAS.

CONCRETE:

1. CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318-14: "BUILDING REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE WORK SHALL COMPLY WITH PROVISIONS OF THE CURRENT EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE REQUIRED.

A. **AMERICAN CONCRETE INSTITUTE**
- ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
- ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
- ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
- ACI SP-15 "FIELD REFERENCE MANUAL"

B. **CONCRETE REINFORCING STEEL INSTITUTE**
- "CRSI MANUAL OF STANDARD PRACTICE FOR REINFORCING PLACEMENT"

C. **AMERICAN WELDING SOCIETY**
- AWS D1.4

2. REINFORCING STEEL SHALL BE GRADE 60, DEFORMED TYPE, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE COLD-DRAWN, RESISTANCE WELDED TYPE, CONFORMING TO ASTM A1064 REQUIREMENTS. MILL TEST REPORTS FOR REINFORCEMENT SHALL BE SUBMITTED FOR REVIEW. REINFORCEMENT SHALL BE CLEAN OF ICE, MUD, OIL, OR OTHER DELETERIOUS COATINGS THAT DECREASE BOND AT TIME OF CONCRETE PLACEMENT. REINFORCEMENT SHALL BE PLACED WITHIN REQUIRED TOLERANCES AND SUPPORTED TO PREVENT DISPLACEMENT BEYOND REQUIRED TOLERANCES DURING CONCRETE PLACEMENT.

3. CONCRETE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

APPLICATION	WEIGHT	MIN. f_c'		NOM. MAX. AGG.	MAX. *w/cm*	% AIR ENTRAINMENT
FOUNDATIONS	NORMAL	3000	PSI	3/4"	N/A	N/A
SLAB ON GRADE	NORMAL	3500	PSI	1 1/2"	N/A	N/A
ELEVATED FLOORS	NORMAL	3500	PSI	3/4"	N/A	N/A
TILT-UP PANELS	NORMAL	4000	PSI	3/4"	0.55	N/A
EXTERIOR PAVING	NORMAL	N/A	PSI	N/A	N/A	N/A

4. PORTLAND CEMENT SHALL BE TYPE I OR III, CONFORMING TO ASTM C150 REQUIREMENTS TO MAINTAIN THE MINIMUM COVER INDICATED ON THE DETAILS. PROVIDE NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C33. FLY ASH SHALL CONFORM TO ASTM C618. MIXING WATER SHALL CONFORM TO ASTM C1602. ADMIXTURES FOR WATER REDUCTION OR SETTING TIME MODIFICATIONS SHALL CONFORM TO ASTM C494. AIR ENTRAINMENT ADMIXTURES SHALL CONFORM TO ASTM C260.

5. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW BEFORE THE MIXTURE IS USED AND BEFORE MAKING CHANGES TO MIXTURES ALREADY IN USE.

6. CEMENTITIOUS MATERIALS AND AGGREGATES SHALL BE STORED TO PREVENT DETERIORATION OR CONTAMINATION PRIOR TO BATCHING. MATERIAL THAT HAS DETERIORATED, OR HAS BEEN CONTAMINATED SHALL NOT BE USED IN CONCRETE. CONCRETE SHALL BE BATCHED, MIXED, AND DELIVERED IN ACCORDANCE WITH ASTM C94 OR ASTM C685.

7. DEBRIS AND ICE SHALL BE REMOVED FROM SPACES TO BE OCCUPIED BY CONCRETE BEFORE PLACEMENT.

CONCRETE (cont'd):

8. CONCRETE SHALL NOT BE PUMPED THROUGH PIPE MADE OF ALUMINUM OR ALUMINUM ALLOYS. EQUIPMENT USED TO CONVEY CONCRETE FROM THE MIXER TO THE LOCATION OF THE FINAL PLACEMENT SHALL HAVE ADEQUATE CAPABILITIES TO ACHIEVE THE PLACEMENT REQUIREMENTS.

9. CONCRETE STRENGTH TEST SPECIMENS SHALL BE AT LEAST TWO 6 x 12 in. CYLINDERS OR AT LEAST THREE 4 x 8 in. CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE. SAMPLING OF CONCRETE FOR STRENGTH TEST SPECIMENS SHALL BE IN ACCORDANCE WITH ASTM C172. CYLINDERS FOR STRENGTH TESTS SHALL BE MADE AND STANDARD-CURED IN ACCORDANCE WITH ASTM C31 AND TESTED IN ACCORDANCE WITH ASTM C39. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1077. ALL REPORTS OF ACCEPTANCE TESTS SHALL BE PROVIDED TO THE ENGINEER, CONTRACTOR, AND CONCRETE PRODUCER.

10. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH THE FOLLOWING:
1. AT LEAST ONCE A DAY
2. AT LEAST ONCE FOR EACH 150 yd^3 OF CONCRETE
3. AT LEAST ONCE FOR EACH 5,000 ft^2 OF SURFACE AREA FOR SLABS OR WALLS

11. IF THE TOTAL VOLUME OF CONCRETE IS SUCH THAT THE FREQUENCY OF TESTING OUTLINED ABOVE WOULD PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CONCRETE MIXTURE, STRENGTH TEST SPECIMENS SHALL BE MADE FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED.

12. GROUT BASE PLATES WITH A NONSHRINKABLE, NON-METALLIC GROUT CONFORMING TO ASTM C1107. THE GROUT SPECIFIED COMPRESSIVE STRENGTH IS 5000 PSI AT 28 DAYS. DO NOT PRE-GROUT BASEPLATES.

13. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

14. FOUNDATION DESIGN IS BASED A SOIL BEARING PRESSURE OF 2,500 PSF AS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY ECS SOUTHEAST, LLP. ECS PROJECT No. 22:33850, DATED NOVEMBER 2, 2023. SOIL BEARING PRESSURE IS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER, OR THIER REPRESENTATIVE PRIOR TO CONSTRUCTION.

15. DO NOT PLACE CONDUIT OR PIPES IN ANY CONCRETE ELEMENTS INCLUDING SLABS, BEAMS, WALLS, COLUMNS, OR FOUNDATIONS UNLESS INDICATED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

16. TILT-UP PANELS AND TILT-UP PANEL EMBEDS SHALL BE DELEGATED DESIGN BY THE TILT-UP CONTRACTOR FOR THE DESIGN LOADS SHOWN IN THESE DOCUMENTS. SHOP DETAILS BEARING THE SEAL OF AN ENGINEER LICENSED IN THE PROJECT STATE, SHOWING PANEL DIMENSIONS, REINFORCEMENT DETAILS, AND EMBED LOCATIONS & DETAILS ARE TO BE PROVIDED BY THE CONTRACTOR FOR REVIEW PRIOR TO CONSTRUCTION. TILT-UP PANELS ARE TO BE PREPARED TO SPF-2, AS DEFINED IN ACI 301, U.N.O.

17. DURING ERECTION, TILT-UP PANELS SHALL BE SUPPORTED AND BRACED TO ENSURE PROPER ALIGNMENT, STRENGTH, AND STABILITY UNTIL PERMANENT CONNECTIONS ARE COMPLETED. DESIGN AND DETAILS OF LIFTING DEVICES, EMBEDMENTS, AND RELATED REINFORCEMENT REQUIRED TO RESIST TEMPORARY ERECTION AND BRACING LOADS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.

18. CONTRACTOR SHALL DESIGN, FABRICATE, INSTALL, AND REMOVE ALL FORMWORK. DESIGN OF FORMWORK SHALL CONSIDER METHOD OF CONCRETE PLACEMENT, RATE OF CONCRETE PLACEMENT, CONSTRUCTION LOADS, AND REASONABLE AVOIDANCE OF DAMAGE TO PREVIOUSLY CONSTRUCTED MEMBERS.

STEEL:

1. SPECIFICATIONS: STRUCTURAL STEEL IS DESIGNED, AND SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH:
1.) **THE STEEL CONSTRUCTION MANUAL, 14TH EDITION**
PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

STRUCTURAL STEEL W-SHAPES	ASTM A992	F_y = 50ksi
MISC. BARS, PLATES, & THREADED RODS	ASTM A36	F_y = 36ksi
MISC. CHANNELS and ANGLES	ASTM A36	F_y = 36ksi
RECT. STRUCTURAL TUBING	ASTM A500 GRADE C	F_y = 50ksi
ROUND STRUCTURAL TUBING	ASTM A500 GRADE C	F_y = 50ksi
PIPES	ASTM A53 GRADE B	F_y = 35ksi

3. ALL WELDING SHALL CONFORM TO ANSI/AWS D1.1 STRUCTURAL WELDING CODE USING E70XX ELECTRODES. METAL DECK MAY BE PUDDLE WELDED TO STRUCTURE USING E6022 ELECTRODES. ALL WELDING SHALL BE DONE BY WELDERS QUALIFIED UNDER ANSI/AWS D1.1. PROVIDE EVIDENCE OF QUALIFICATION TO ARCHITECT PRIOR TO ERECTION.

4. ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIA. BOLTS CONFORMING TO ASTM F3125 GRADE A325 IN BEARING TYPE CONNECTION (SNUG TIGHT) UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS. A307 BOLTS MAY BE USED FOR ERECTION BOLTS. WASHERS SHALL CONFORM TO ASTM F436. NUTS SHALL CONFORM TO ASTM A563

5. ALL STEEL TO STEEL CONNECTIONS, INCLUDING COLUMN SPLICES, WHICH ARE NOT DETAILED IN THESE DRAWINGS SHALL BE DELEGATED DESIGN BY THE STEEL FABRICATOR. CALCULATIONS AND SHOP DETAILS SHOWING ALL CONNECTION GEOMETRY, DIMENSIONS, AND PERTINENT DETAILS ARE TO BE PROVIDED BY THE FABRICATOR TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. DELEGATED CONNECTION DESIGN SHALL REVIEW MEMBER LOCAL BUCKLING AND ACCOUNT FOR ANY ADDITIONAL REQUIRED MEMBER STIFFENERS.

6. METAL STAIRS, RAILINGS, AND LADDERS SHALL BE DELEGATED DESIGN BY THE STEEL FABRICATOR. CALCULATIONS AND SHOP DETAILS SHOWING MEMBER SIZES, CONNECTION GEOMETRY, DIMENSIONS, AND PERTINENT DETAILS ARE TO BE PROVIDED BY THE FABRICATOR TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

7. ANCHOR RODS SHALL BE OF ASTM F1554 GR 36 MATERIAL w/ DOUBLE A 563a HEX NUTS & DOUBLE F844 WASHERS, U.N.O.

COLD-FORMED METAL STUDS:

1. COLD-FORMED METAL STUDS TO BE DESIGNED BY DELEGATED STUD WALL DESIGNER. SEE ARCHITECTURAL DRAWINGS FOR CLADDING, SHEATHING, WATERPROOFING, AND INSULATION REQUIREMENTS. CALCULATIONS, SPECIFICATIONS, AND SHOP DRAWINGS/DETAILS SHOWING ALL METAL STUD LAYOUT, SPACING, CONNECTION DETAILS, REQUIRED BRACING, DIMENSIONS, AND ALL OTHER PERTINENT DETAILS ARE TO BE PROVIDED TO THE ARCHITECT FOR REVIEW/APPROVAL PRIOR TO CONSTRUCTION AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT RESIDES.

STATEMENT OF SPECIAL INSPECTIONS:

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

FABRICATED ITEMS:

FABRICATED ITEMS SHALL BE FABRICATED BY AN AISC APPROVED FABRICATOR. THE APPROVED FABRICATOR SHALL PROVIDE PROOF APPROVAL PRIOR TO FABRICATION. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER, OR THE OWNER'S AUTHORIZED AGENT, FOR SUBMITTAL TO THE BUILDING OFFICIAL, AS SPECIFIED IN SECTION 1704.5, STATING THAT WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

COLD FORMED STEEL DECK:

ALL COLD FORMED STEEL DECK SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.

ADDITIONAL SPECIAL INSPECTIONS AS NOTED IN THE FOLLOWING TABLES:

OPEN WEB STEEL JOISTS AND JOIST GIRDERS:

	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1.	**INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:**		
a.	END CONNECTIONS - WELDING OR BOLTED		X
b.	STANDARD BRIDGING - HORIZONTAL OR DIAGONAL		X

CONCRETE CONSTRUCTION:

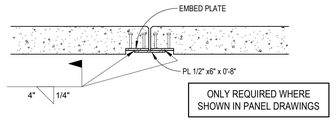
	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X
2.	INSPECT ANCHORS CAST IN CONCRETE		X
3.	INSPECT CONCRETE ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.a.	X	X
4.	VERIFYING USE OF REQUIRED DESIGN MIX		X
5.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	
6.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
7.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
8.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X
9.	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

SOILS:

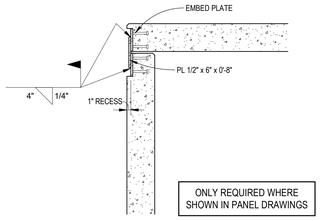
	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
4.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

WIND:

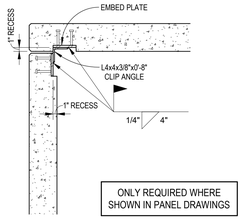
	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1.	ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS		X
2.	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING		X



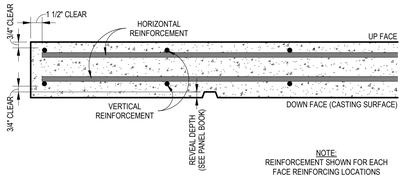
1 PLANAR PANEL TO PANEL CONNECTION
3/4" = 1'-0"



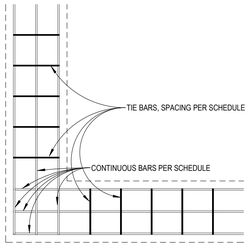
2 INSIDE CORNER CONNECTION
3/4" = 1'-0"



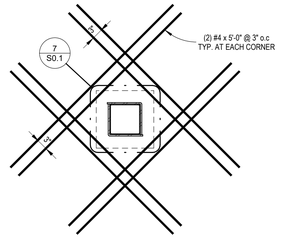
3 OUTSIDE CORNER CONNECTION
3/4" = 1'-0"



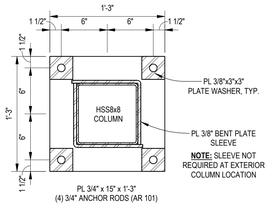
4 TILT-UP PANEL REINFORCEMENT LOCATION
1 1/2" = 1'-0"



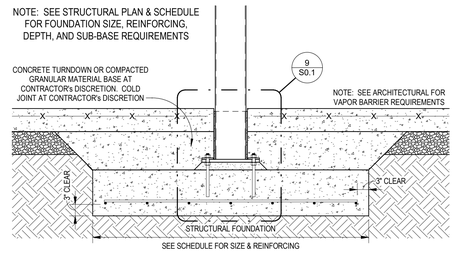
5 CONT. FDN CORNER REBAR LAP
1/2" = 1'-0"



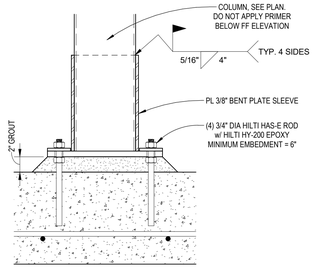
6 RE-ENTRANT REINF. AT COLUMN SLEEVE
3/4" = 1'-0"



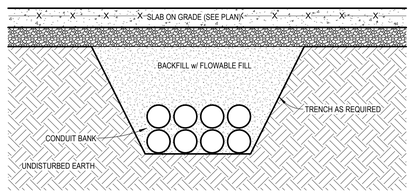
7 BASE PLATE "A" - HSS8x8
1 1/2" = 1'-0"



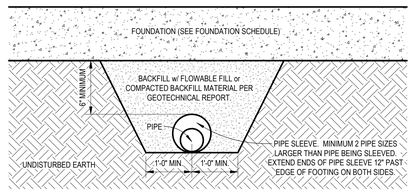
8 INTERIOR COLUMN FOUNDATION
3/4" = 1'-0"



9 ANCHOR ROD DETAIL
1 1/2" = 1'-0"

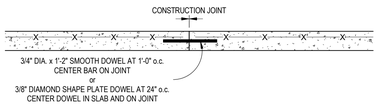


10 CONDUIT BANK UNDER SLAB ON GRADE
3/4" = 1'-0"



11 PIPE UNDER FOUNDATION
3/4" = 1'-0"

NOTE: LOCATION OF CONSTRUCTION JOINT TO BE AT CONTRACTOR'S DISCRETION



12 SLAB-ON-GRADE (S.O.G.) CONSTRUCTION JOINT
3/4" = 1'-0"

MEDNORTH HEALTH CENTER

CITADEL CONTRACTORS INC
3405 APEX PEAKWAY
APEX, N.C. 27502
TEL. 1-919-362-5122
FAX 1-919-362-6910

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MEDNORTH HEALTH CENTER

925 N. 4th STREET
WILMINGTON, NC 28401

100% DD SET - NOT FOR CONSTRUCTION

DATE:	2024-07-08
SCALE:	As indicated
JOB NO.	C2408
APPROVED BY:	CEJ
CADD:	C. JACKSON

STRUCTURAL NOTES

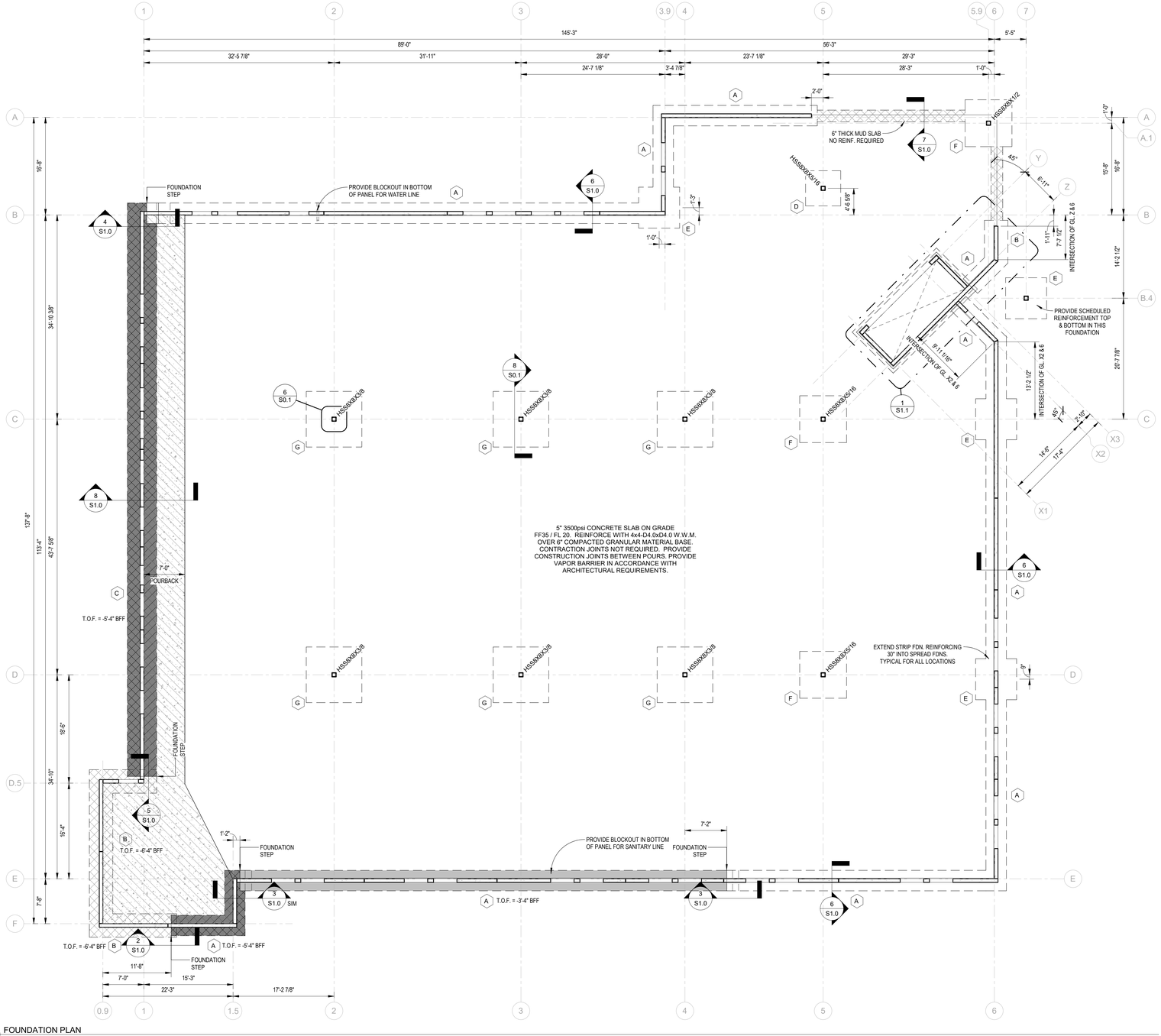
DRAWING NUMBER	REVISION NO.
S0.1	

T.O.F = -1'-4" BFF, U.N.O

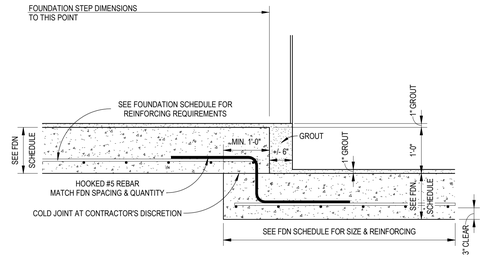
PANEL THICKNESS = 7 1/4", U.N.O

FOUNDATION SCHEDULE

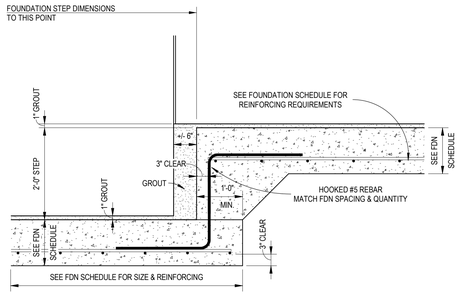
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
A	3'-6"		1'-0"	(4) #5's CONT. w/ #5 TIES @ 12" o.c.	
B	4'-0"		1'-0"	(5) #5's CONT. w/ #5 TIES @ 12" o.c.	
C	5'-0"		1'-0"	(__) #5's CONT. w/ #5 TIES @ 12" o.c.	
D	6'-0"	6'-0"	1'-0"	(7) #5's EW BOTTOM	
E	7'-0"	7'-0"	1'-0"	(8) #5's EW BOTTOM	
F	8'-0"	8'-0"	1'-1"	(10) #5's EW BOTTOM	
G	9'-6"	9'-6"	1'-4"	(10) #6's EW BOTTOM	



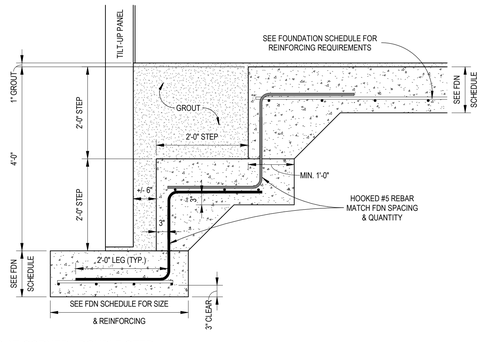
1 FOUNDATION PLAN
1/8" = 1'-0"



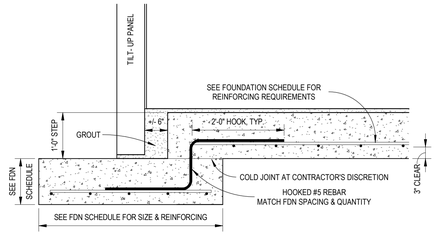
2 FOUNDATION STEP - PANEL TO PANEL - 1'-0" STEP
3/4" = 1'-0"



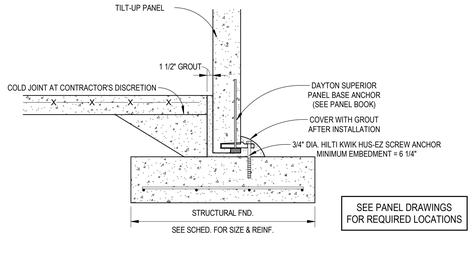
3 FOUNDATION STEP - PANEL TO PANEL - 2'-0" STEP
3/4" = 1'-0"



4 FOUNDATION STEP AT CORNER - DOUBLE STEP
3/4" = 1'-0"

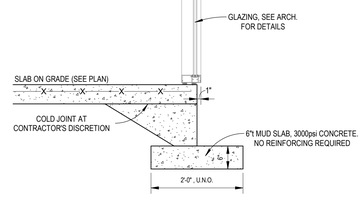


5 FOUNDATION STEP AT CORNER - 1'-0" STEP
3/4" = 1'-0"

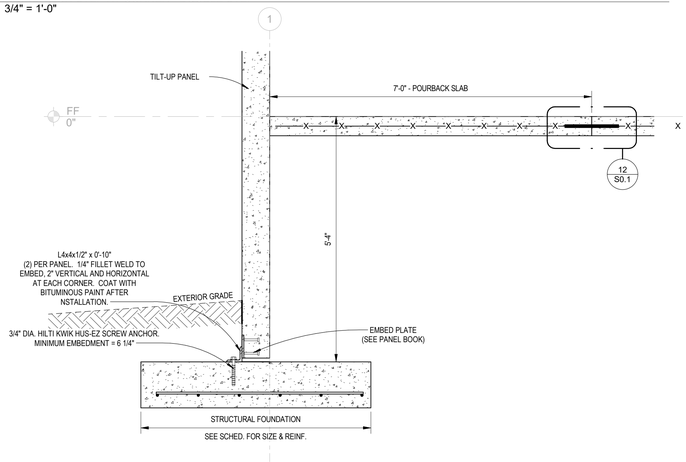


SEE PANEL DRAWINGS FOR REQUIRED LOCATIONS

6 EXTERIOR WALL FOUNDATION - PANEL BASE ANCHOR
3/4" = 1'-0"



7 MUD SLAB DETAIL AT GLAZING
3/4" = 1'-0"



8 EXTERIOR WALL FOUNDATION ALONG GRIDLINE 1
3/4" = 1'-0"

MEDNORTH HEALTH CENTER

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MEDNORTH HEALTH CENTER

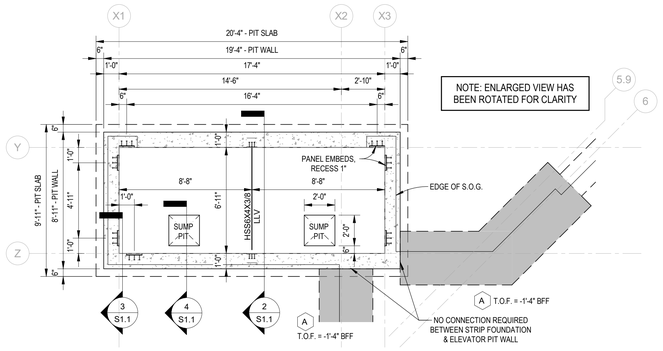
925 N. 4th STREET
WILMINGTON, NC 28401

100% DD SET - NOT FOR CONSTRUCTION

DATE:	2024-07-08
SCALE:	As indicated
JOB NO.	C2408
APPROVED BY:	CEJ
CADD:	C. JACKSON

FOUNDATION PLAN

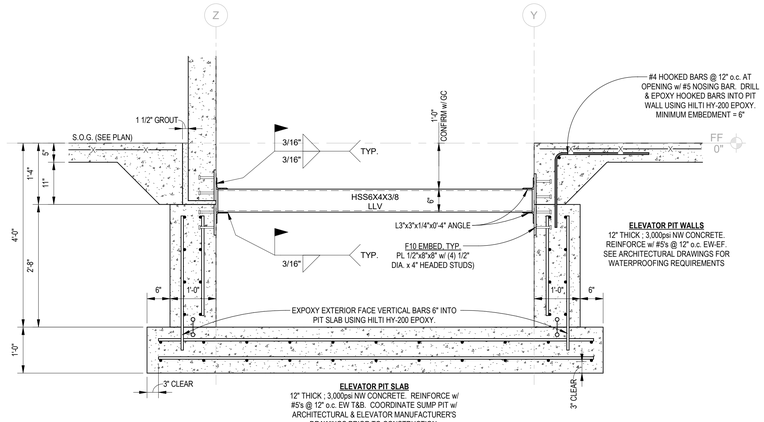
DRAWING NUMBER	REVISION NO.
S1.0	



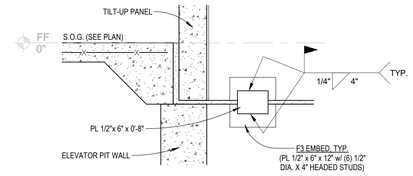
NOTE: ENLARGED VIEW HAS BEEN ROTATED FOR CLARITY

ELEVATOR NOTES:
- COORDINATE ADDITIONAL RAILS OR SUPPORTS w/ ELEVATOR SHOP DRAWINGS
- ALL ELEVATOR PIT & SHAFT EMBED CONNECTIONS TO BE RECESSED 1"
- CONFIRM PIT SIZE w/ FINAL ELEVATOR SHOP DRAWINGS
- CONFIRM SUMP PIT SIZE, LOCATION, AND DEPTH w/ GC

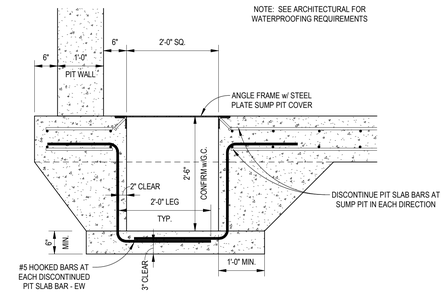
1 ELEVATOR PIT PLAN
1/4" = 1'-0"



2 ELEVATOR PIT SECTION
3/4" = 1'-0"



3 ELEVATOR PIT DETAIL - PANEL TO PIT CONNECTION
3/4" = 1'-0"



4 SUMP PIT DETAIL
3/4" = 1'-0"

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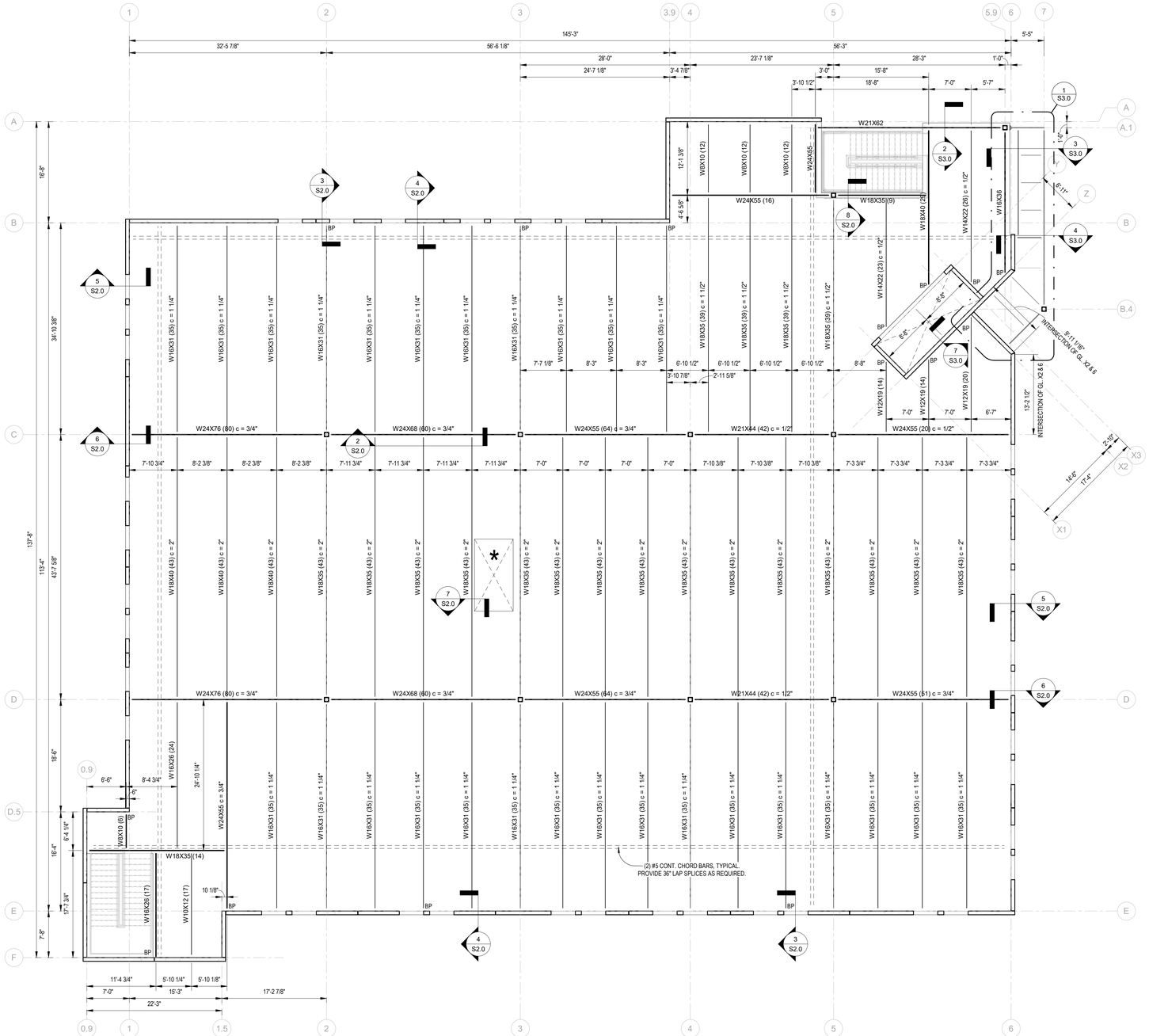
APPROVED BY:	CEJ
CADD:	C. JACKSON

FOUNDATION DETAILS

DRAWING NUMBER	REVISION NO.
S1.1	



1 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

DESIGN NOTES:

UNDERSIDE OF DECK (TOP OF STEEL) = EL. 15' - 6 1/2" AFF, U.N.O.

LIVE LOAD = 80 PSF
DEAD LOAD = 75 PSF

MAXIMUM LIVE LOAD DEFLECTION = L/360

2"; 20ga. G-60 GALVANIZED COMPOSITE FLOOR DECK
MINIMUM 3 SPAN CONDITION
3 1/2" NORMAL WEIGHT CONCRETE COVER, U.N.O.
TOTAL SLAB THICKNESS = 5 1/2", U.N.O.

ELEVATED SLAB TO BE REINFORCED WITH 6x6-D2.0xD2.0 W.W.M. CHAIRED TO 1" BELOW TOP OF SLAB, OR MACROSYNTHETIC FIBERS MEETING THE CRITERIA OF ASTM D7508 AT A DOSAGE RATE DETERMINED BY THE MANUFACTURER FOR THE APPLICATION, BUT NOT LESS THAN 4.0lbs/cy. PROVIDE #4 NEGATIVE REINFORCING OVER GIRDERS AS SHOWN IN DETAILS

ALL SHEAR STUDS ARE TO BE PLACED AT UNIFORM SPACING ON EACH DESIGNATED BEAM

"BP" DESIGNATES CONNECTIONS TO TILT-UP PANELS REQUIRING PLATES, SEE DETAIL 3 ON S2.0

ALL DECK IS TO BE FASTENED TO STEEL FRAMING USING 5/8" DIA. PUDDLE WELDS ON A 36/4 PATTERN. HILTI X-ENP-19-L15 DIRECT FASTENING SYSTEM MAY BE SUBSTITUTED WITH THE SAME FASTENING PATTERN. SIDELAPS TO BE FASTENED WITH (8) HILTI S-SLC-01 M HWH SIDELAP CONNECTORS PER SPAN. DECK IS TO BE FASTENED TO PERIMETER OF BUILDING @ 6" o.c.

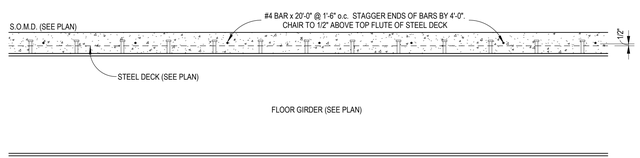
ALL FLOOR OPENINGS NOTED WITH * TO BE FRAMED WITH MINIMUM 4x4x1/4" ANGLES. THESE OPENINGS ARE TO BE DECKED OVER WITH THE OPENING PERIMETER FORMED BEFORE CONCRETE IS POURED. METAL DECK IS TO BE REMOVED BY OTHERS WHEN OPENINGS ARE REQUIRED. ALL OTHER OPENING EDGES ARE TO BE FORMED WITH 1/4" BENT PLATES SHOP WELDED TO BEAMS AND DO NOT REQUIRE DECK.

W18X35 (30) c = 1"

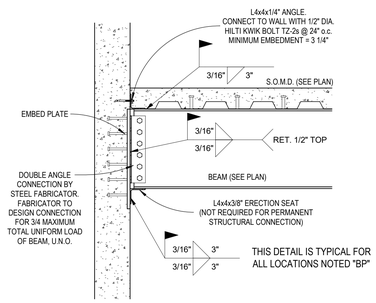
BEAM DESIGNATION

REQUIRED AMOUNT OF CAMBER

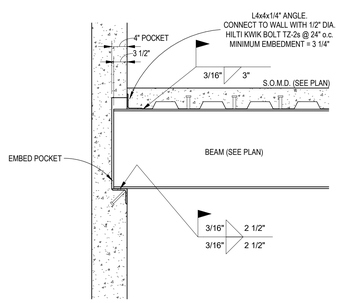
REQUIRED # OF 3/4" DIA. x 3 1/2" SHEAR STUDS PER BEAM



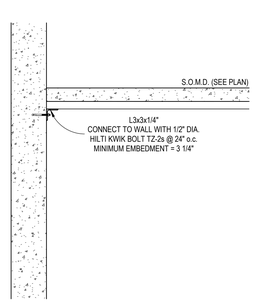
2 NEGATIVE REINFORCING OVER FLOOR GIRDER
3/4" = 1'-0"



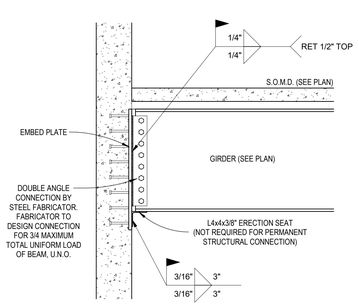
3 FLOOR BEAM TO TILT-UP WALL PLATE
3/4" = 1'-0"



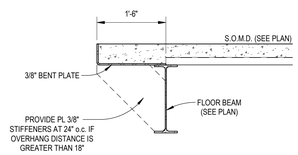
4 FLOOR BEAM TO TILT-UP WALL POCKET
3/4" = 1'-0"



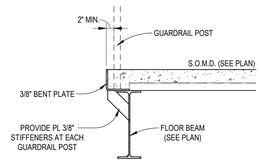
5 FLOOR DECK TO TILT-UP WALL
3/4" = 1'-0"



6 FLOOR GIRDER TO TILT-UP WALL PLATE
3/4" = 1'-0"



7 S.O.M.D EDGE DETAIL
3/4" = 1'-0"



8 S.O.M.D EDGE DETAIL AT GUARDRAIL
3/4" = 1'-0"

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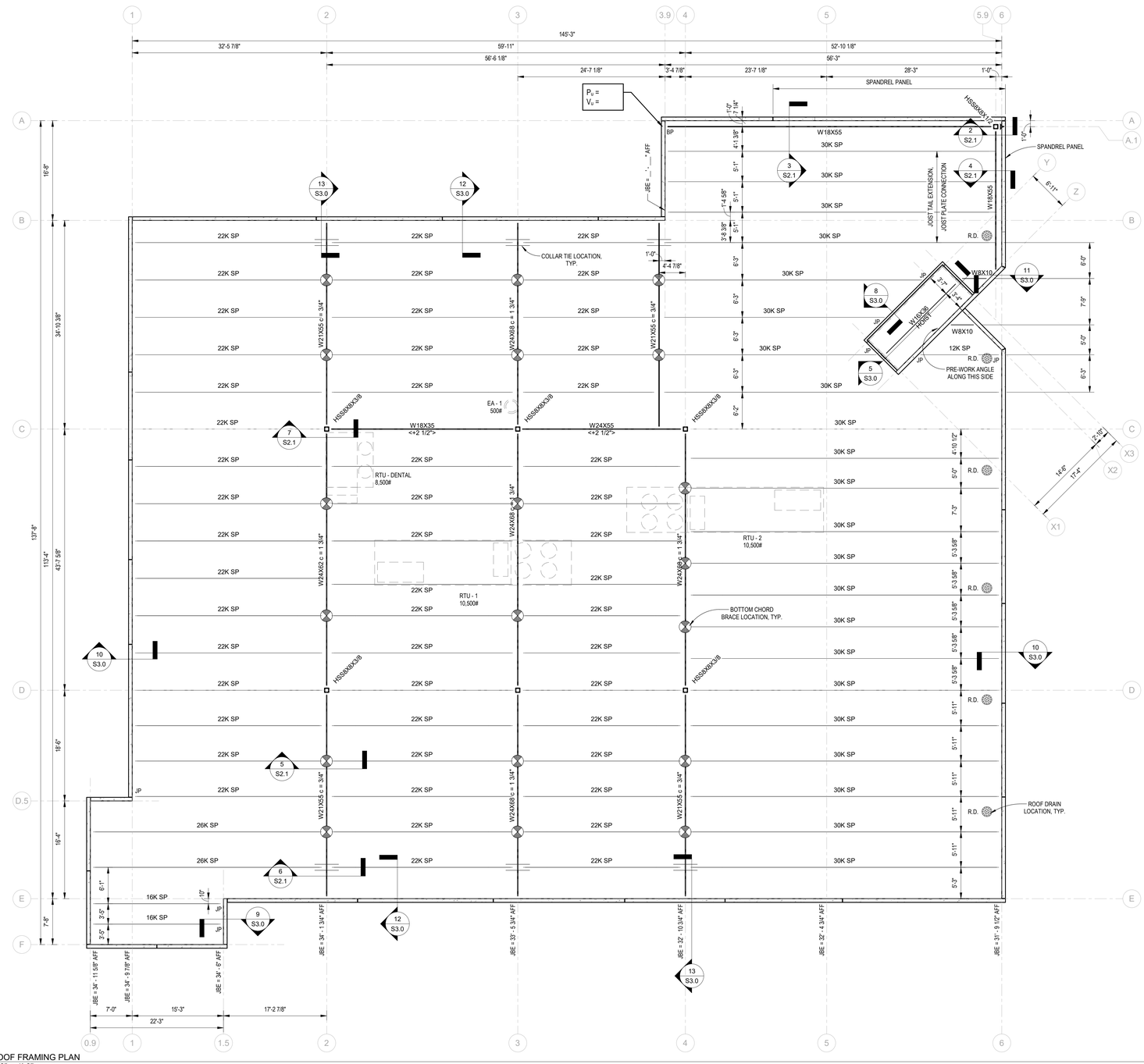
CADD:	C. JACKSON

2ND FLOOR FRAMING PLAN

DRAWING NUMBER	REVISION NO.
S2.0	



1 ROOF FRAMING PLAN
1/8" = 1'-0"

DESIGN NOTES:

ELEVATIONS NOTED AS "J.B.E" ON PLAN
LIVE LOAD = 20 PSF
DEAD LOAD = 20 PSF
WIND LOAD = 20.8 PSF
SNOW LOAD = 12 PSF

SNOW DRIFT LOADS PER DIAGRAM

JOIST NET UPLIFT PER DIAGRAM

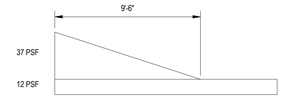
MAXIMUM LIVE LOAD DEFLECTION = L/240

1 1/2" ; 22ga., PAINTED, TYPE "B" ROOF DECK, UNO.
MINIMUM 3 SPAN CONDITION.
DECK TO BE FASTENED USING HILTI X-HSN 24 DIRECT FASTENING SYSTEM ON 36/7 PATTERN. SIDELAPS TO BE FASTENED WITH (7) HILTI S-SLC-01 M HWH OR HILTI S-SLC-02 M HWH SIDELAP CONNECTORS PER SPAN. DECK TO BE FASTENED TO PERIMETER OF BUILDING AT 6" o.c.

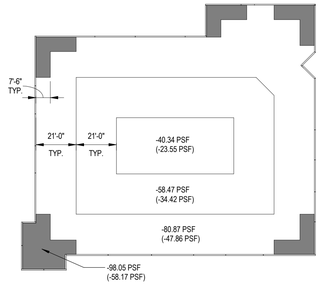
JOIST SUPPLIER IS TO DESIGN ALL JOISTS AND BRIDGING FOR MOST ECONOMICAL SIZES BASED ON DESIGN LOADS AND FASTENING PATTERNS SPECIFIED IN THESE DOCUMENTS AND CURRENT SJI REQUIREMENTS.

JOIST SUPPLIER IS TO DESIGN ALL JOISTS TO CARRY LISTED RTU LOADS WITHOUT THE USE OF FIELD ADDED STRUTS TO TAKE THE POINT LOADS TO THE NEAREST PANEL POINTS. CONTRACTOR TO VERIFY/COORDINATE ALL RTU LOCATIONS & WEIGHTS w/ JOIST SUPPLIER

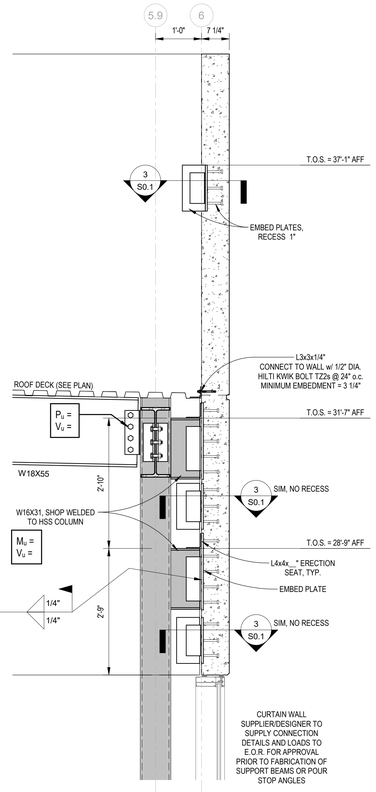
OPENINGS IN DECK SMALLER THAN 12" SQUARE SHALL BE PLACED SO THAT THE OPENING OCCURS ENTIRELY IN ONE PIECE OF DECK AND DO NOT REQUIRE ADDITIONAL SUPPORT FRAMES. OPENINGS 12" SQUARE OR LARGER REQUIRE AN L4x4x1/4" AROUND THE ENTIRE OPENING PERIMETER. ALL PRIMARY ROOF DRAIN PENETRATIONS SHALL REQUIRE AN L4x4x1/4" FRAME AROUND THE PENETRATION REGARDLESS OF PENETRATION SIZE.



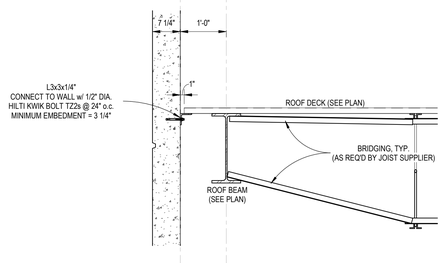
A SNOW DRIFT ALONG ENTIRE PERIMETER
1/4" = 1'-0"



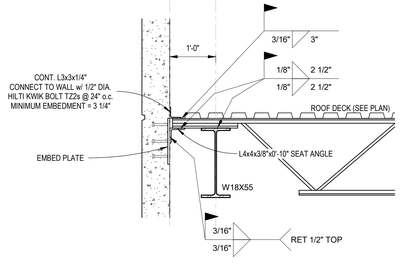
B FACTORED JOIST NET UPLIFT DIAGRAM - LRFD (ASD)
1/32" = 1'-0"



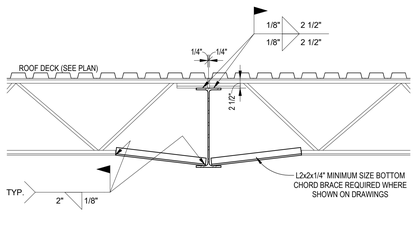
2 ENTRY CORNER CONNECTION
3/4" = 1'-0"



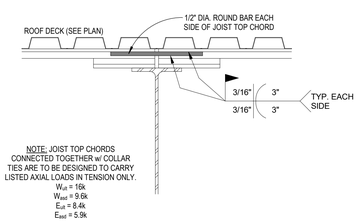
3 SPANDREL PANEL CONNECTION TO ROOF BEAM
3/4" = 1'-0"



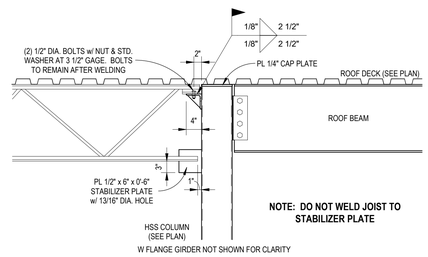
4 K JOIST EXTENSION AT SPANDREL PANEL
3/4" = 1'-0"



5 K JOIST TO W FLANGE GIRDER
3/4" = 1'-0"



6 K JOIST COLLAR TIE DETAIL
1 1/2" = 1'-0"



7 TIE JOIST & W FLANGE BEAM TO COLUMN
3/4" = 1'-0"

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APPROVED BY:	CEJ
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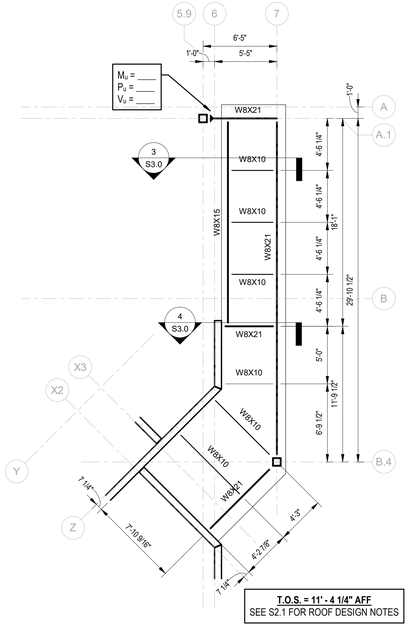
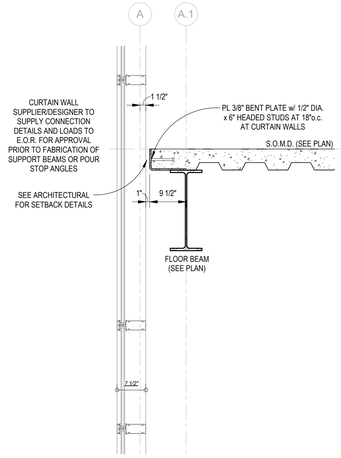
ROOF FRAMING PLAN

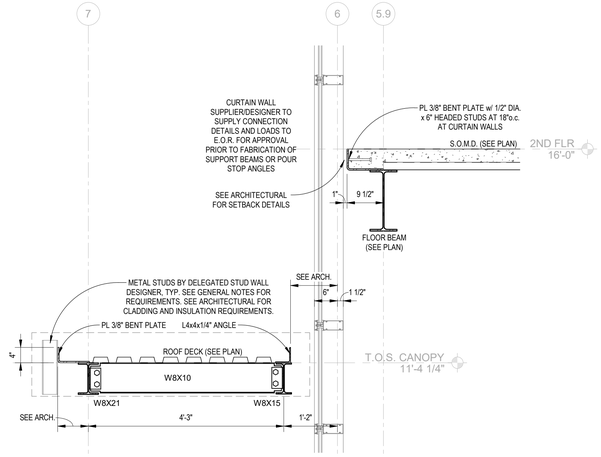
DRAWING NUMBER	REVISION NO.
S2.1	



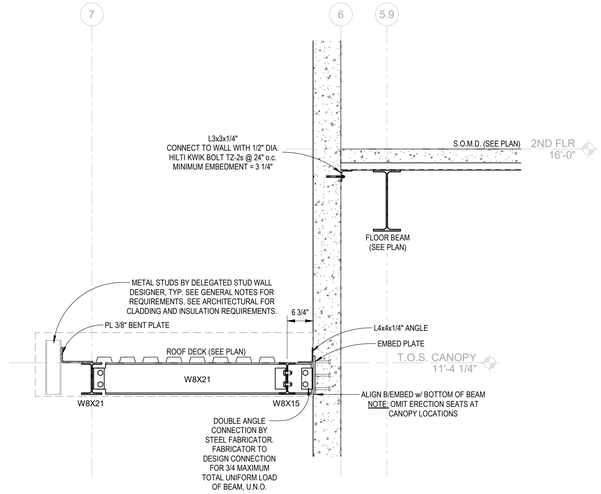
1 CANOPY FRAMING PLAN
3/16" = 1'-0"



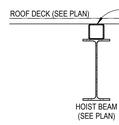
2 CURTAINWALL DETAIL A
3/4" = 1'-0"



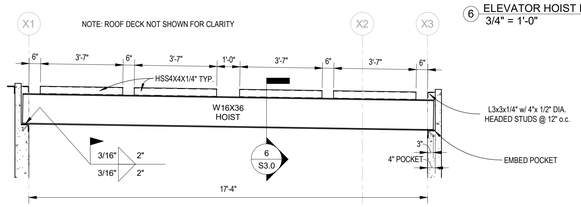
3 CURTAINWALL DETAIL B
3/4" = 1'-0"



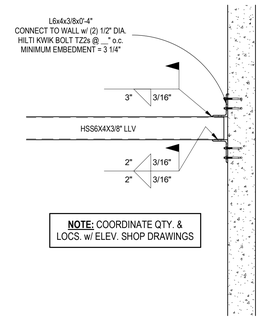
4 CANOPY FRAMING DETAIL
3/4" = 1'-0"



6 ELEVATOR HOIST BEAM DETAIL 2
3/4" = 1'-0"

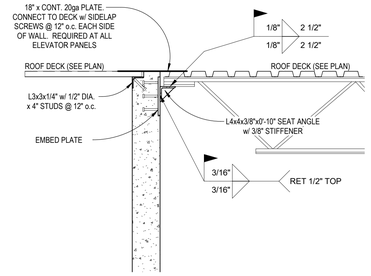


5 ELEVATOR HOIST BEAM DETAIL 1
3/8" = 1'-0"

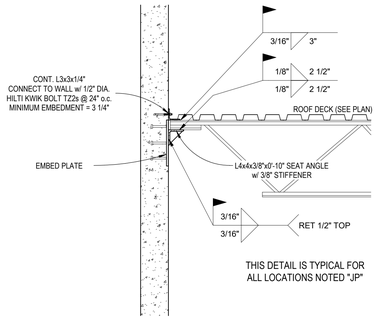


NOTE: COORDINATE QTY. & LOCS. w/ ELEV. SHOP DRAWINGS

7 ELEVATOR HSS TUBE SUPPORT CONNECTION DETAIL
3/4" = 1'-0"

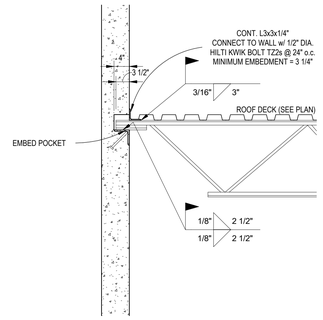


8 EMBED ANGLE AT ELEVATOR PANELS
3/4" = 1'-0"

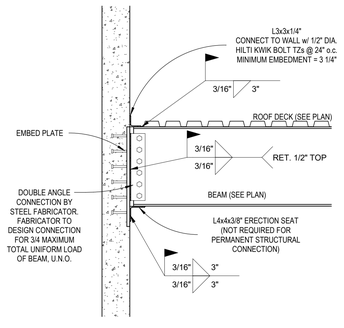


THIS DETAIL IS TYPICAL FOR ALL LOCATIONS NOTED "JP"

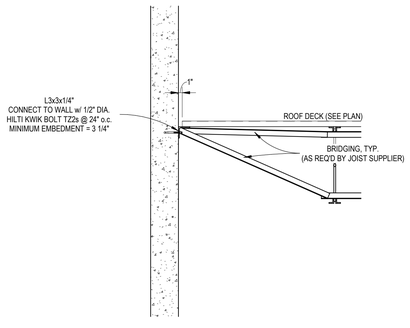
9 K JOIST TO TILT-UP WALL PLATE
3/4" = 1'-0"



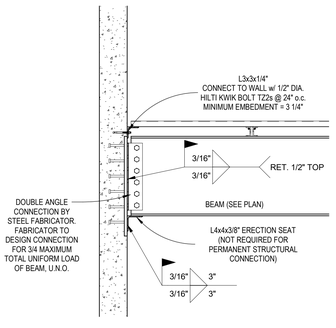
10 K JOIST TO TILT-UP WALL POCKET
3/4" = 1'-0"



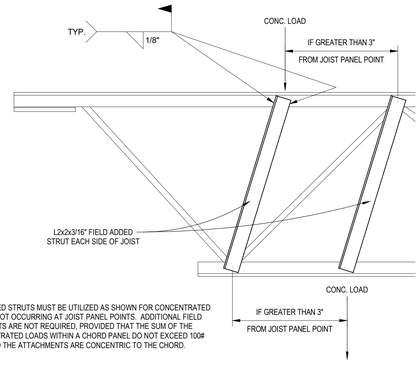
11 ROOF W BEAM TO TILT-UP WALL PLATE
3/4" = 1'-0"



12 ROOF DECK TO TILT-UP WALL
3/4" = 1'-0"

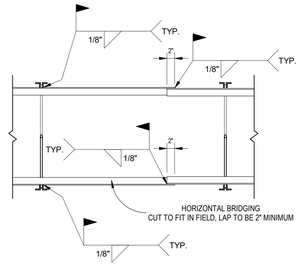


13 ROOF W GIRDER TO TILT-UP WALL PLATE
3/4" = 1'-0"

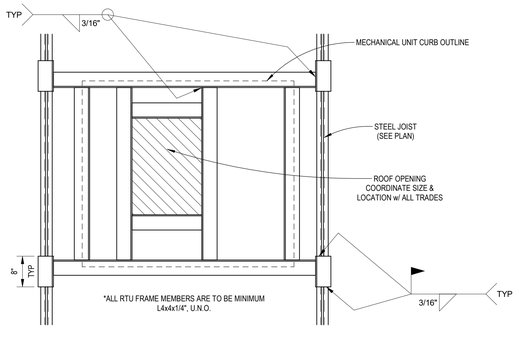


FIELD ADDED STRUTS MUST BE UTILIZED AS SHOWN FOR CONCENTRATED LOADS NOT OCCURRING AT JOIST PANEL POINTS. ADDITIONAL FIELD STRUTS ARE NOT REQUIRED, PROVIDED THAT THE SUM OF THE CONCENTRATED LOADS WITHIN A CHORD PANEL DO NOT EXCEED 100# AND THE ATTACHMENTS ARE CONCENTRIC TO THE CHORD.

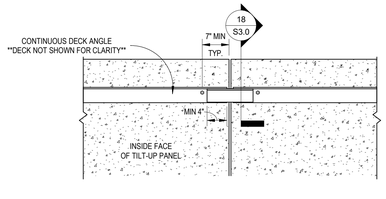
14 FIELD ADDED STRUTS DETAIL
1 1/2" = 1'-0"



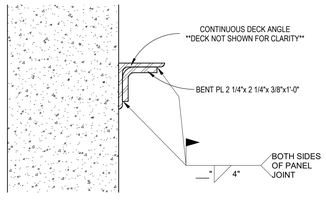
15 TYPICAL HORIZONTAL BRIDGING DETAIL
3/4" = 1'-0"



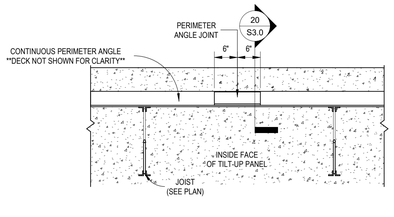
16 TYPICAL ROOF OPENING FRAME DETAIL
3/4" = 1'-0"



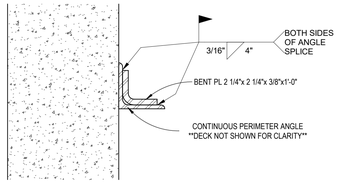
17 TYPICAL SPLICE DETAIL FOR CONT. DECK ANGLE
3/4" = 1'-0"



18 TYPICAL SPLICE DETAIL FOR CONT. DECK ANGLE - SECTION
3" = 1'-0"



19 TYPICAL SPLICE DETAIL FOR CONT. PERIMETER ANGLE
3/4" = 1'-0"



20 TYPICAL SPLICE DETAIL FOR CONT. PERIMETER ANGLE - SECTION
3" = 1'-0"

MEDNORTH HEALTH CENTER

CITADEL CONTRACTORS INC
3405 APEX PEAKWAY
APEX, N.C. 27502
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FAX 1-919-362-6910

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MEDNORTH HEALTH CENTER

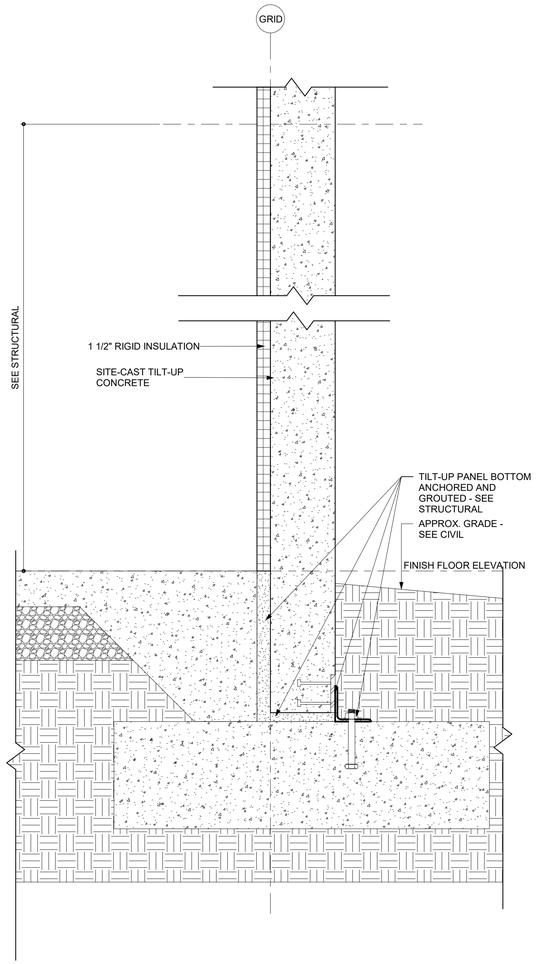
925 N. 4th STREET
WILMINGTON, NC 28401

100% DD SET - NOT FOR CONSTRUCTION

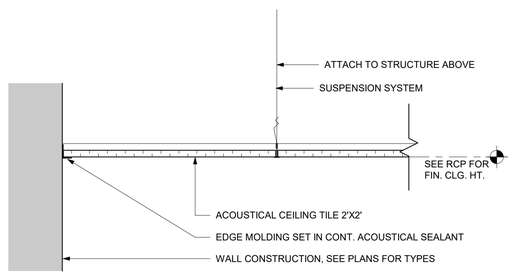
DATE:	2024-07-08
SCALE:	As indicated
JOB NO.	C2408
APPROVED BY:	CEJ
CADD:	C. JACKSON

STRUCTURAL DETAILS

DRAWING NUMBER	REVISION NO.
S3.0	

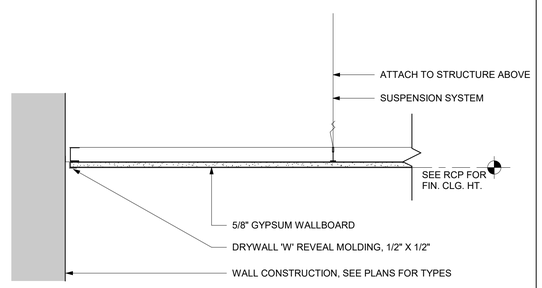


EXTERIOR WALL TYPE EXT 9A

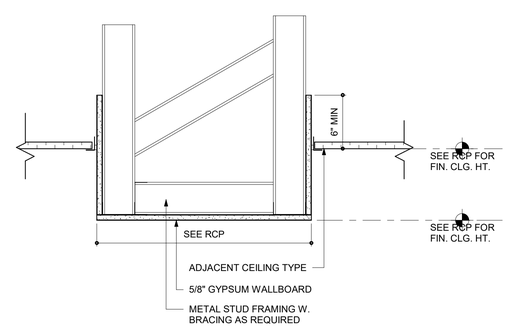


CEILING TYPE 1 - ACOUSTICAL CEILING TILE

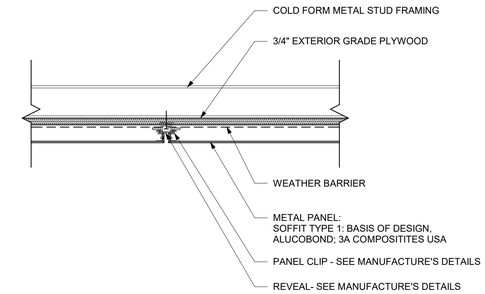
NOTE: BOTH METAL STUD AND SUSPENSION FRAMING ACCEPTABLE



CEILING TYPE 2 - GWB ON SUSPENSION SYSTEM

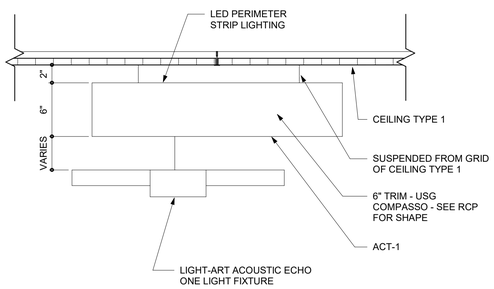


CEILING TYPE 3 - GWB ON STUD

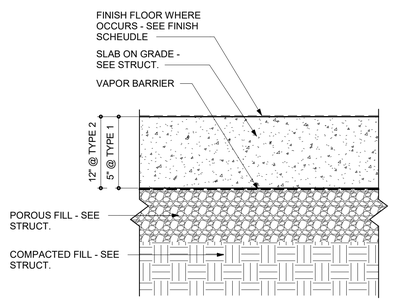


SOFFIT TYPES 1

SCALE : N.T.S.



CEILING TYPE 4 - ACOUSTICAL CLOUD

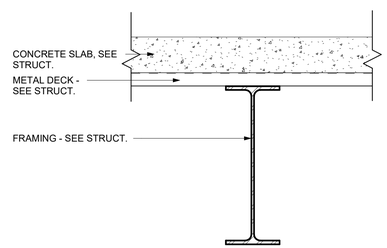


REFER TO STRUCTURAL FOUNDATION PLANS FOR EXTENTS OF SLAB TYPES

SLAB TYPE 1 - TYPICAL UNLESS OTHERWISE NOTED
SLAB TYPE 2 - TYPICAL AT ELEVATOR PITS AND AS NOTED.

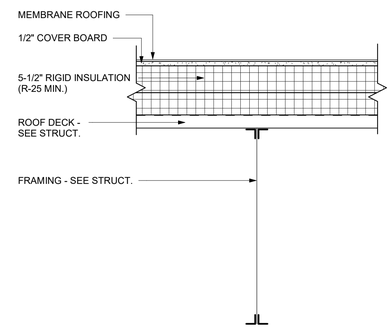
SLAB TYPES 1 & 2

SCALE : N.T.S.



FLOOR TYPE 1

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



ROOF TYPE 1

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

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ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. ARCHITECTURE ENGINEERING WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS

ISSUED: 05/10/2024

SHEET TITLE

CONSTRUCTION TYPES - EXTERIOR WALLS, SLABS, FLOORS, AND ROOFS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1 1/2" = 1'-0"
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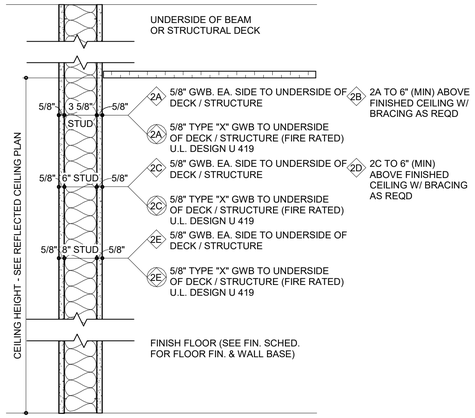
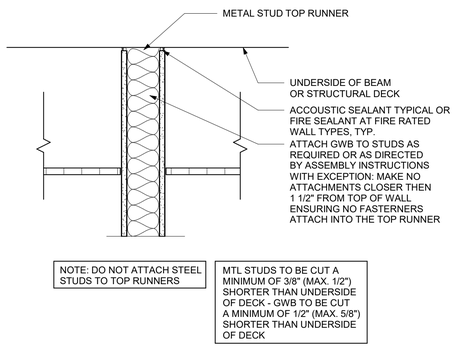
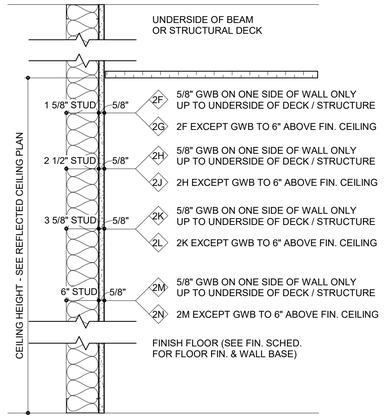


WALL TYPES 2A 2A 2B 2C 2C 2D 2E 2E

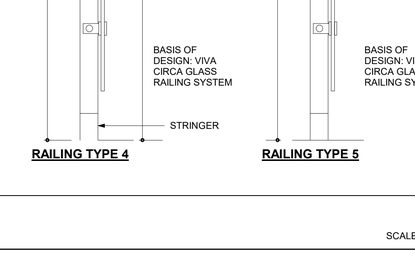


1 TYPICAL STUD WALL DETAIL

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



WALL TYPES 2F 2G 2H 2J 2K 2L 2M 2N

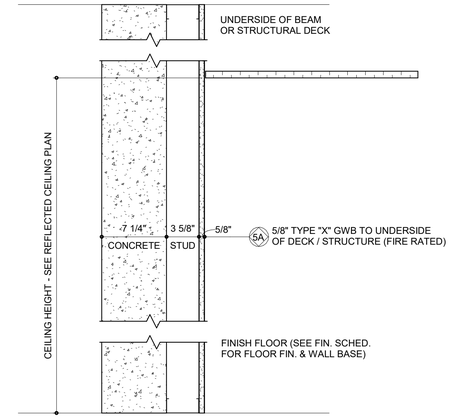


A. TYPICAL CHASE IN CORNER B. TYPICAL FREE STANDING CHASE

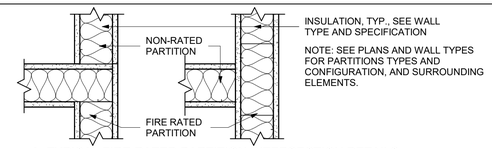
NOTE: COORDINATE CHASE SIZES WITH MECHANICAL/PLUMBING & STRUCTURAL REQUIREMENTS
AND WITH DIMENSIONS INDICATED ON FLOOR PLANS. ALIGN CHASE WITH ADJACENT WALLS AS INDICATED ON PLANS.

2 TYPICAL CHASE DETAILS

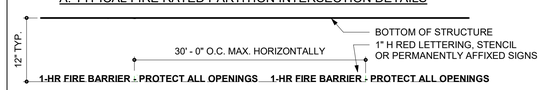
SCALE : 1 1/2" = 1'-0"



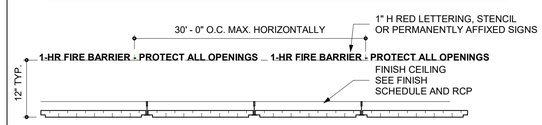
WALL TYPES 5A



A. TYPICAL FIRE RATED PARTITION INTERSECTION DETAILS



B. MARKING OF RATED PARTITIONS AND WALLS AT EXPOSED STRUCTURE



C. MARKING OF RATED PARTITIONS AND WALLS AT FINISH CEILING

NOTES:
1. MARK BOTH SIDES OF RATED WALLS AND PARTITIONS.
2. WHERE WALL OR PARTITION CHANGES DIRECTION, MARK EACH SEGMENT INDIVIDUALLY.
3. LOCATE MARKINGS SO AS TO NOT BE OBSTRUCTED BY WIRES, CONDUIT, PIPES, EQUIPMENT, ETC..
4. LETTERING SHALL READ AS FOLLOWS:
   A. SMOKE PARTITION: " SMOKE PARTITION - PROTECT ALL OPENINGS "
   B. 1-HR FIRE BARRIER: " 1-HR FIRE BARRIER - PROTECT ALL OPENINGS "
   C. 2-HR FIRE WALL: " 2-HR FIRE WALL - PROTECT ALL OPENINGS "

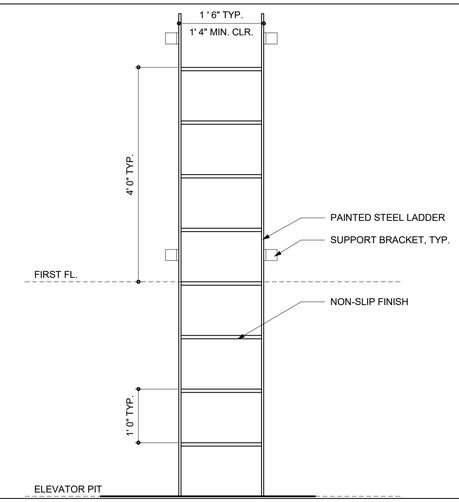
3 TYPICAL RATED PARTITION DETAILS

N.T.S.

WALL TYPE GENERAL NOTES

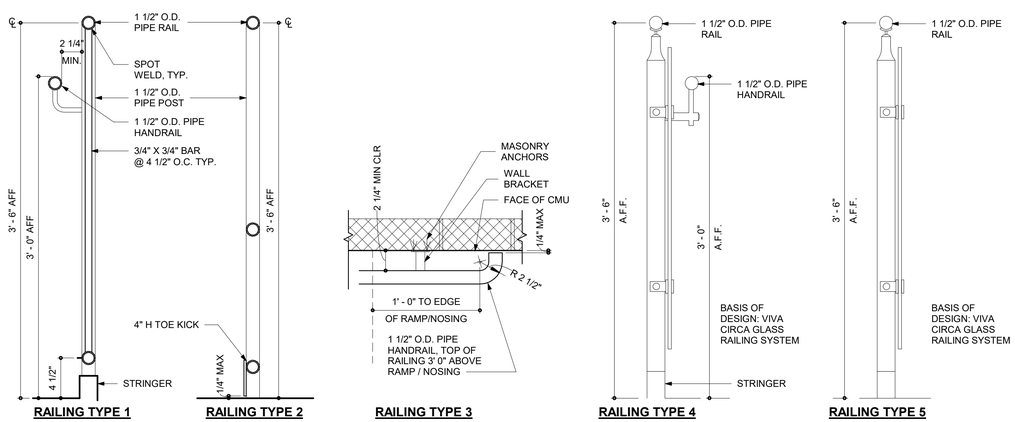
1. SEE CODE SHEETS, G100- AND G500-SERIES, FOR REQUIRED FIRE RATINGS OF ALL WALL ASSEMBLIES. MULTIPLE LAYERS OF GWB MAY BE REQUIRED AT RATED PARTITIONS. COORDINATE WITH U.L. DESIGN(S).
2. PROVIDE SOUND-ATTENUATING FIRE BATT INSULATION IN RATED STUD-FRAMED PARTITIONS AND FIBERGLASS SOUND BATT INSULATION IN NON-RATED STUD PARTITIONS.
3. PROVIDE MOLD AND MOISTURE RESISTANT GWB AT ALL STUD-FRAMED PARTITIONS IN WET LOCATIONS, INCLUDING TOILET ROOMS, AND AT SINKS AND LAVATORIES. EXTEND TO END OF CASEWORK RUN, INCLUDING SIDEWALLS WHERE ADJACENT TO SINKS.
4. BRACE NON-STRUCTURAL METAL STUD PARTITIONS WHERE NOT ATTACHED TO STRUCTURE ABOVE OR WHERE HEIGHT OF STRUCTURE EXCEEDS MANUFACTURER'S LIMITING HEIGHT FOR 5PSF @ 16" O.C., OR PROVIDE COLD-FORM FRAMING. SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS.
5. PROVIDE ACOUSTICAL SEALANT AT PARTITIONS IN THE FOLLOWING LOCATIONS: MECHANICAL ROOMS / MEZZANINES / PENTHOUSES / EQUIPMENT PLATFORMS, AND ELEVATOR MACHINE ROOM. SEE SPECIFICATIONS.
6. PROVIDE CONTROL JOINTS IN MASONRY WALLS AS INDICATED ON PLANS, ELEVATIONS, DETAILS, AND AS SPECIFIED. WHERE JOINTS ARE NOT SHOWN, PROVIDE ACCORDING TO B.I.A AND N.C.M.A. TEK NOTES. SUBMIT SHOP DRAWING FOR ARCHITECT'S APPROVAL.

WALL TYPE GENERAL NOTES



4 ELEVATOR LADDER DETAIL

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



5 RAILING TYPES

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

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. 515 NORTH SIXTH STREET WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
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ISSUED: 05/10/2024

SHEET TITLE

CONSTRUCTION TYPES - INTERIORS WALLS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1 1/2" = 1'-0"
DRAWN BY: MMM	PROJ MGR: BMR

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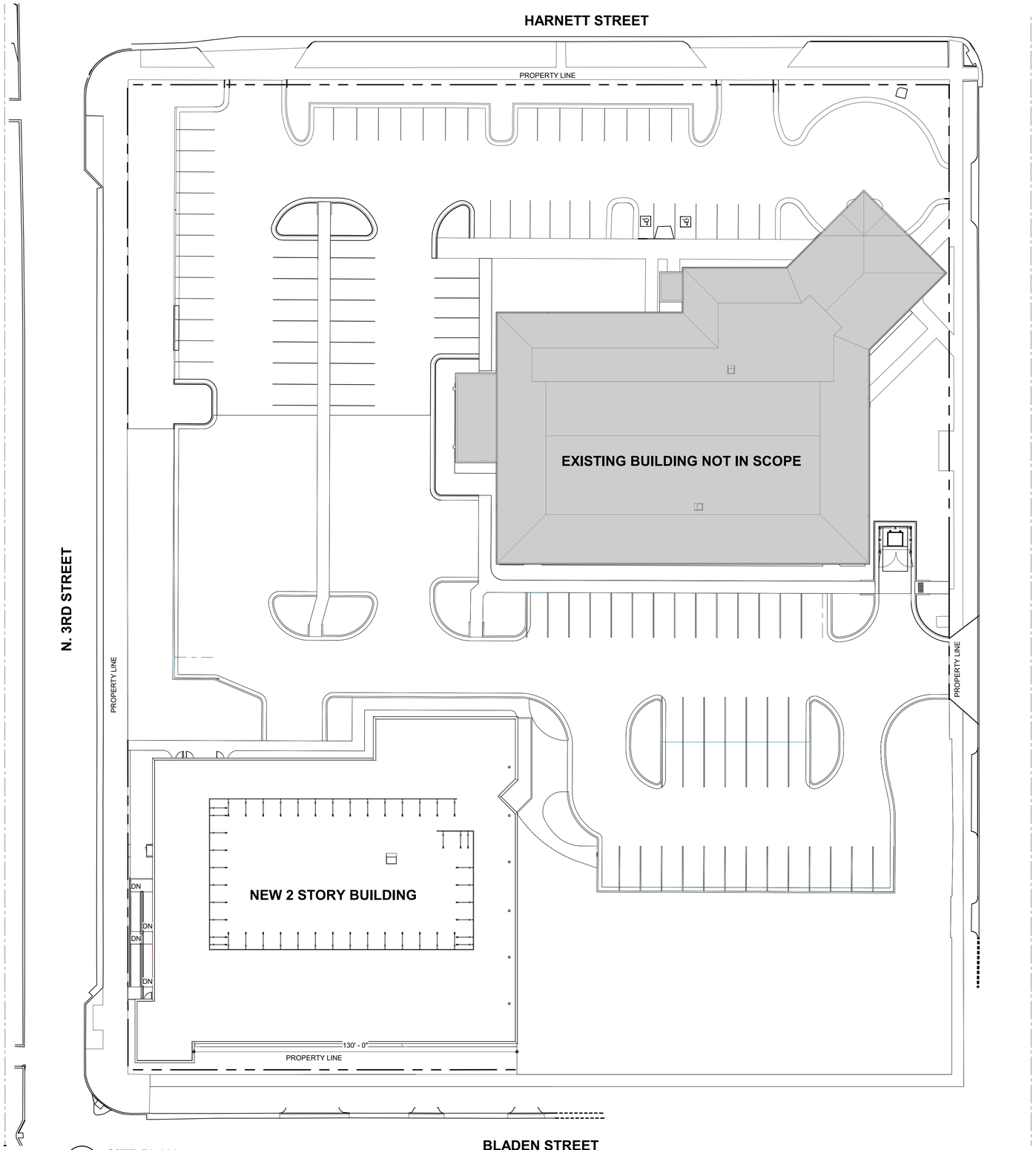

1 SITE PLAN

SCALE: 3/64" = 1'-0"

N

0' 4' 8' 16'

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

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ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

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Dover, DE 19904
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SHEET TITLE

ARCHITECTURAL SITE PLAN

ISSUE BLOCK

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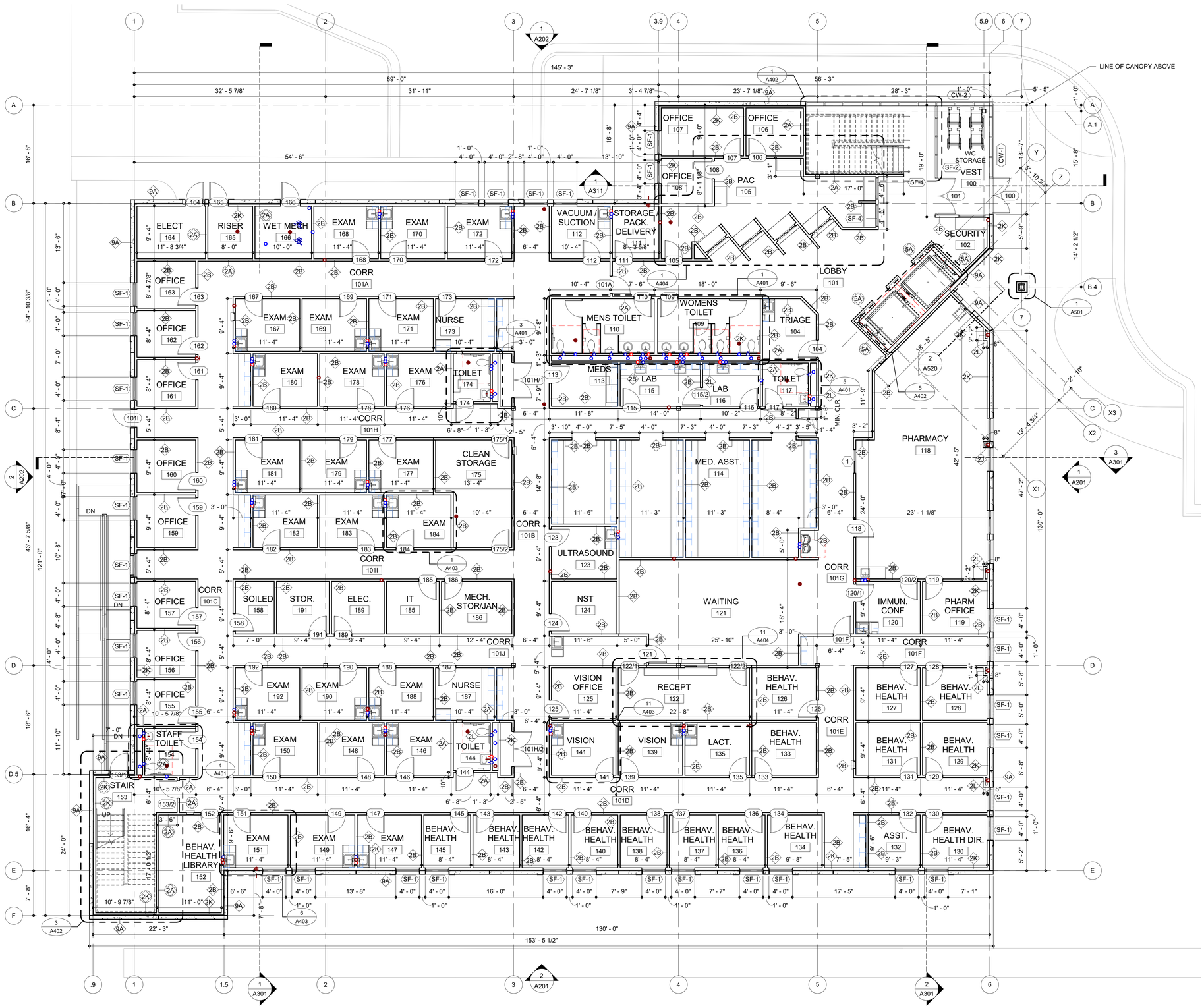

1 FIRST FLOOR PLAN

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

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Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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SHEET TITLE

FIRST FLOOR PLAN

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1/8" = 1'-0"
DRAWN BY: MMM	PROJ MGR: BMR

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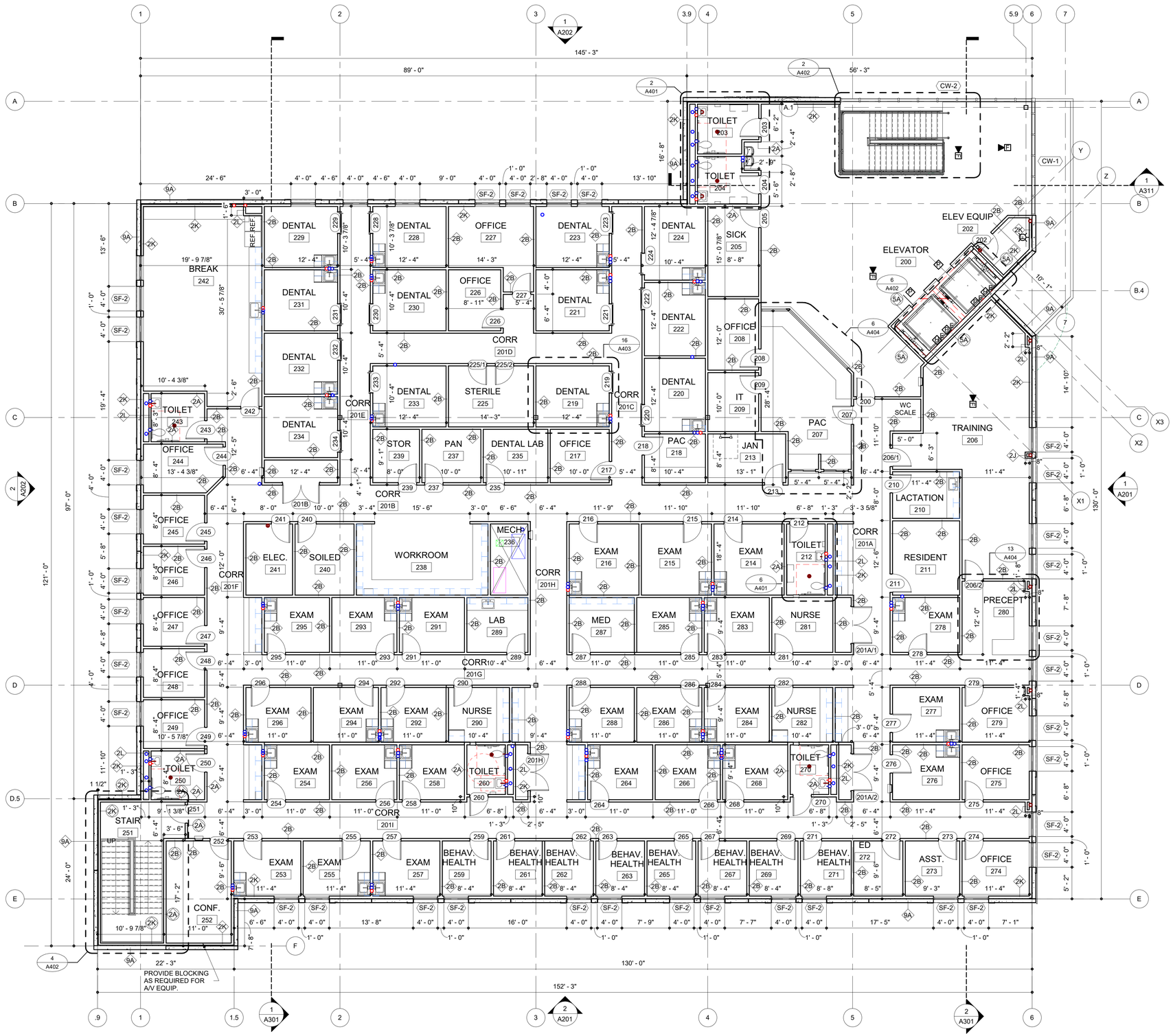

1 SECOND FLOOR PLAN

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

N

0' 4' 8' 16'

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

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North Carolina
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910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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312 West Main St, Suite 300
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Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY. SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS.

ISSUED: 05/10/2024

SHEET TITLE

SECOND FLOOR PLAN

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1/8" = 1'-0"
DRAWN BY: MMM	PROJ MGR: BMR

A102

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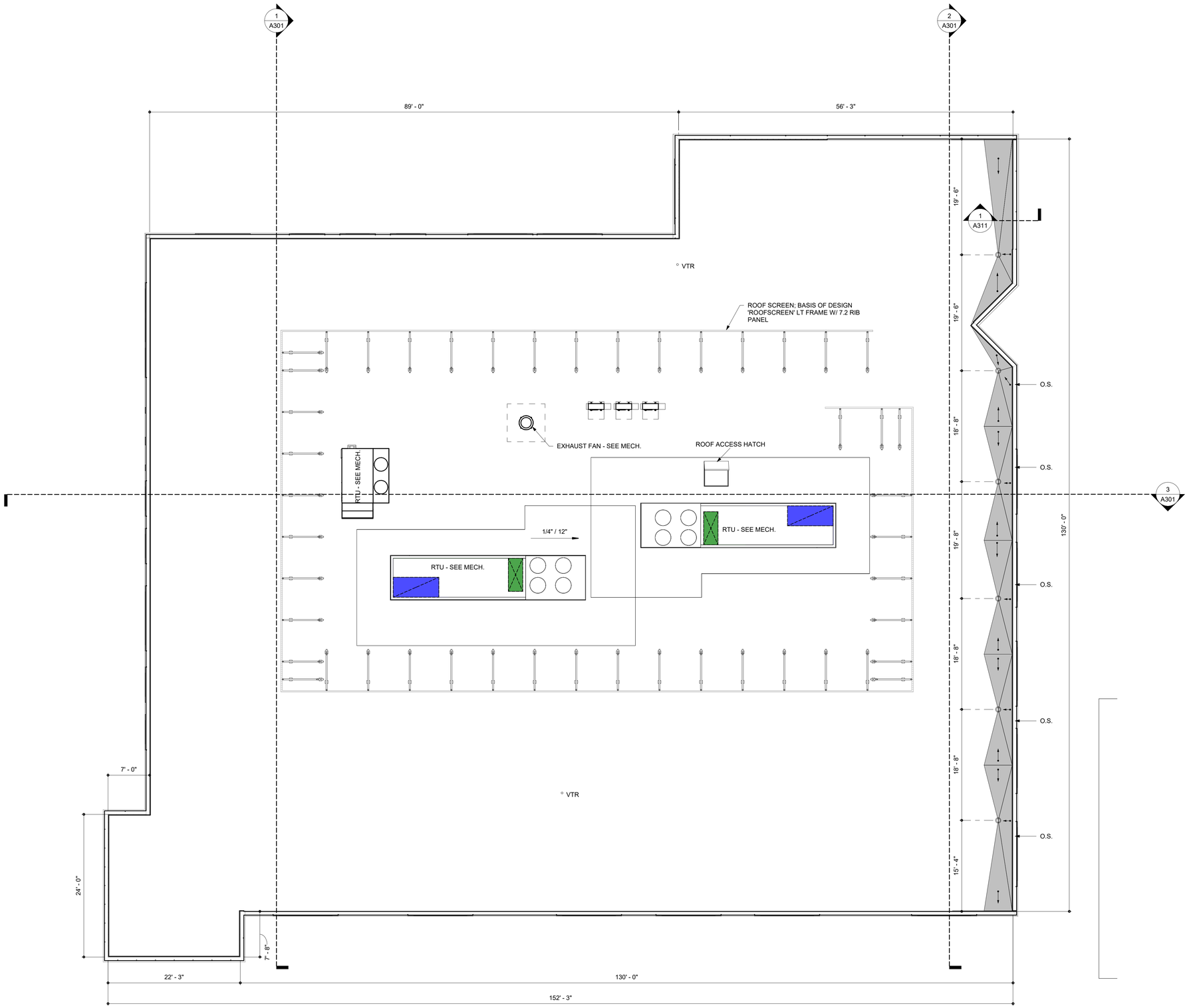

1 ROOF PLAN

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

ROOF NOTES AND LEGEND

	PVC ROOFING SYSTEM OVER RIGID INSULATION
	CRICKET
	ROOF DRAIN
O.S.	OVERFLOW SCUPPER
VTR	VENT THRU ROOF - SEE PLUMBING

1. SLOPE ALL CRICKETS 1/2" / 12" MINIMUM, EXCEPT WHERE REQUIRED TO MAINTAIN MINIMUM 8" ROOFING/FLASHING TURN-UP HEIGHT.
2. TIE DOWNSPOUTS INTO BOOT AT GRADE AND CONNECT TO STORMWATER SYSTEM, UNLESS OTHERWISE NOTED. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
3. PROVIDE CRICKETS AT ALL ROOF TOP EQUIPMENT, FIRE VENTS, EXHAUST FANS, CURBS, ETC. AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE.
4. PROVIDE WALKWAY PADS AROUND MECHANICAL EQUIPMENT, BASE AND TOP OF LADDERS, AND AT DOORS.
5. REFER TO MECHANICAL FOR ROOFTOP EQUIPMENT.
6. REFER ALSO TO A520 AND A521 FOR TYPICAL ROOF DETAILS.

N

0' 4' 8' 16'

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

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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ROOF PLAN

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1 FIRST FLOOR PLAN

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

CEILING LEGEND

- 2x2 ACT CEILING
- INTERIOR - GWB CEILINGS /BULKHEADS
- 2x2 LIGHT

CEILING NOTES

1. SEE FINISH SCHEDULE FOR ACT TYPES.
2. SEE MECHANICAL DRAWINGS FOR G.R.D. TYPES, LOCATIONS, AND ADDITIONAL WORK.
3. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND LOCATIONS
4. CEILING HEIGHTS INDICATED ARE FROM FINISH FLOOR. CEILINGS AT LANDINGS, RAMPS ETC., REFER TO NEAREST FLOOR LEVEL. COORDINATE WITH EXG. WINDOW MULLION LOCATIONS.
5. ALL EXPOSED LINTELS SHALL BE PAINTED.
6. SECOND FLOOR EXAMS ROOMS TO BE PROVIDED WITH PRIVACY CURTAIN TRACK / CURTAIN

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ARCHITECTURE ENGINEERING

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FIRST FLOOR REFLECTED CEILING PLAN

ISSUE BLOCK

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1 SECOND FLOOR PLAN

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

CEILING LEGEND

- 2x2 ACT CEILING
- INTERIOR - GWB CEILINGS /BULKHEADS
- 2x2 LIGHT

CEILING NOTES

1. SEE FINISH SCHEDULE FOR ACT TYPES.
2. SEE MECHANICAL DRAWINGS FOR G.R.D. TYPES, LOCATIONS, AND ADDITIONAL WORK.
3. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND LOCATIONS
4. CEILING HEIGHTS INDICATED ARE FROM FINISH FLOOR. CEILINGS AT LANDINGS, RAMPS ETC., REFER TO NEAREST FLOOR LEVEL. COORDINATE WITH EXG. WINDOW MULLION LOCATIONS.
5. ALL EXPOSED LINTELS SHALL BE PAINTED.
6. SECOND FLOOR EXAMS ROOMS TO BE PROVIDED WITH PRIVACY CURTAIN TRACK / CURTAIN

N

0' 4' 8' 16'

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

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SECOND FLOOR REFLECTED CEILING PLAN

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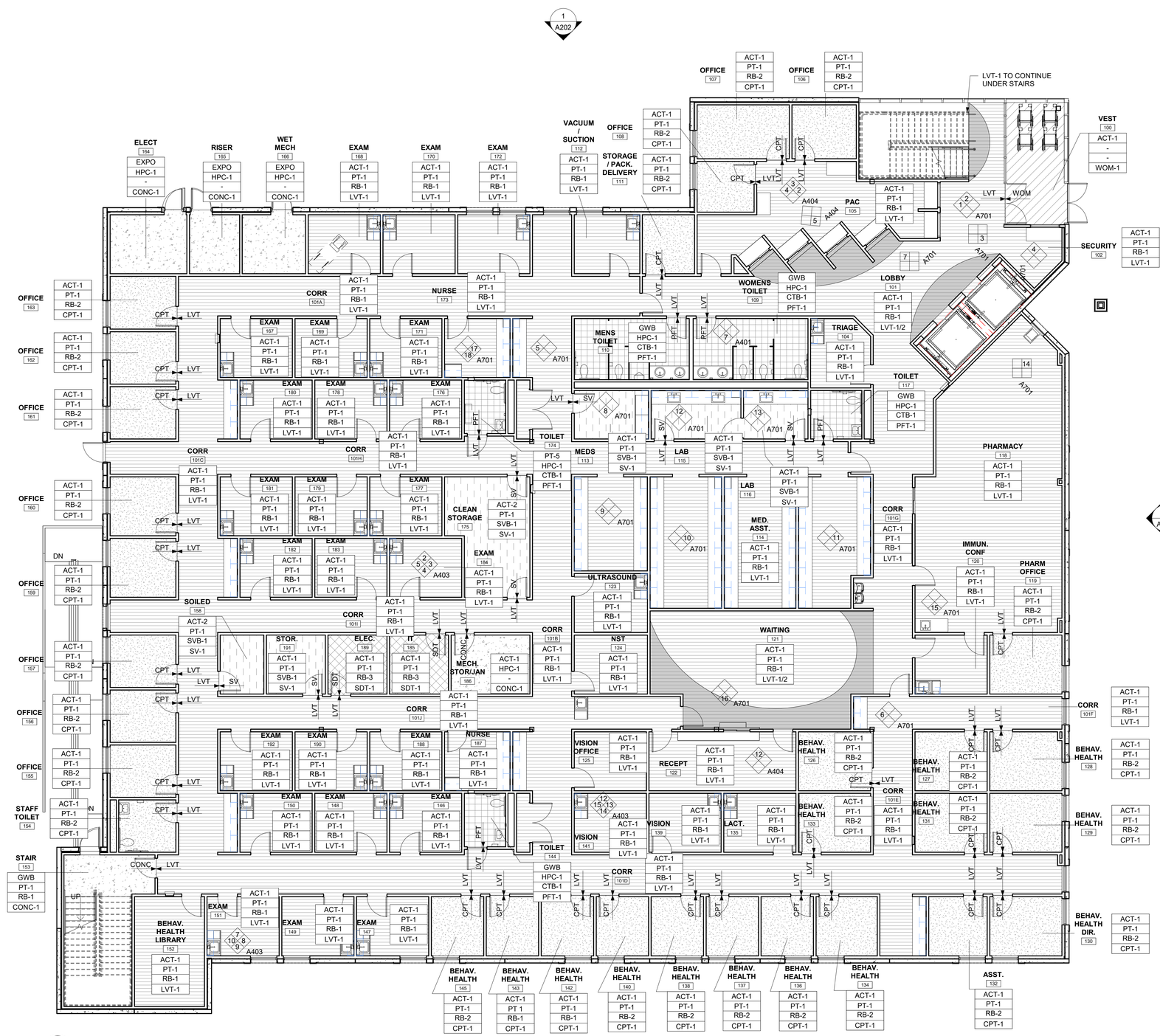

1 FIRST FLOOR FINSH PLAN

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

GENERAL FINISH PLAN NOTES

1. REFER TO SHEET A604 FOR ROOM SCHEDULE AND A605 FOR FINISH SCHEDULE.
2. REVIEW ALL FIELD CONDITIONS AND PLANNED WORK. ALL DISCREPANCIES IN A MANNER APPROVED BY THE ARCHITECT THAT COULD AFFECT THE FINISHED OR TRANSITIONS PRIOR TO PROCEEDING WITH WORK AFFECTED BY DISCREPANCIES.
3. ALL FINISHES SHALL BE TYPE 1 / CLASS A FLAME AND SMOKE SPREAD, REFER TO FINISH AND MATERIAL SCHEDULES.
4. SEE G101 CODE SHEET FOR INTERIOR REQUIREMENTS.
5. REFER TO ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS FOR ADDITIONAL INFORMATION REGARDING FINISHES, PATTERNS, ORIENTATIONS AND TRANSITIONS.
6. PREPARE SURFACES PER FINISH MANUFACTURER'S INSTRUCTIONS PRIOR TO APPLICATIONS OF FINISHES, CONFIRM SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OR IRREGULARITIES.
7. PREPARE SLAB TO RECEIVE NEW FINISHES, INCLUDING STRUCTURALLY BONDED HYDRAULIC CEMENT UNDERLAY AND FLASH PATCHING REQUIRED TO LEVEL AND SMOOTH FLOOR TO 1/8" IN 20'-0" NON-CUMULATIVE, UNLESS OTHERWISE INDICATED AS IRREGULARITIES AND SHALL EXHIBIT NEUTRALLY RELATIVE TO ACIDITY AND ALKALINITY. REMOVE GREASE, DIRT CURING COMPOUNDS AND OTHER MATERIALS THAT WILL IMPAIR THE PERFORMANCE AND/OR ADHESION OF THE SCHEDULED FLOORING.
8. LOCATE FLOOR FINISH TRANSITIONS AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
9. LAY RESILIENT FLOORING DIRECTIONAL PATTERNS OR GRAINS AS NOTED, OR IF NOT NOTED AS DIRECTED BY THE ARCHITECT.
10. PROVIDE COMPLETE EXTRUDED REVEALS IN ALL REVEAL LOCATIONS. FINISH TO MATCH ADJACENT SURFACE FINISH, UNLESS OTHERWISE NOTED.
11. SEE SPECIFICATIONS FOR APPROPRIATE PAINT SHEENS.
12. USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND APPLY FINAL FINISH COAT AS RECOMMENDED BY MANUFACTURER TO MATCH SPECIFIED FINISH.
13. SPRAY-APPLY PAINT TO METAL SURFACES UNLESS OTHERWISE NOTED OR APPROVED BY ARCHITECT.
14. PAINT AND FINISH EXPOSED SURFACES UNLESS OTHERWISE NOTED. PAINT SURFACES BEHIND REMOVABLE EQUIPMENT / FURNITURE. PAINT BEHIND NON-REMOVABLE ITEMS WITH PRIME COAT ONLY.
15. PRIME ALL MATERIAL PRIOR TO PAINTING.
16. GRILLES, PLATES, DIFFUSERS, AND OTHER ITEMS OCCURRING IN WALLS OR CEILINGS SHALL BE FACTORY FINISHED IN PAINT OF COLOR OR SHEEN TO MATCH SURFACES ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
17. SEALANT TO BE APPLIED BETWEEN BASE OF ALL DOOR FRAMES AND RESILIENT OR TILE FLOORING. SEALANT TO MATCH COLOR OF DOOR FRAMES.
18. CLEANING AND PROTECTION
    - A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CLEANING AND PROTECTION OF FLOOR COVERINGS.
    - B. IMMEDIATELY AFTER COMPLETING FLOOR COVERINGS INSTALLATION:
      1. REMOVE ADHESIVE AND OTHER BLEMISHES FROM FLOOR COVERING SURFACES.
      2. SWEEP AND VACUUM FLOOR COVERINGS THOROUGHLY.
      3. DAMP – MOP FLOOR COVERINGS TO REMOVE MARKS AND SOIL.
    - C. PROTECT FLOOR COVERINGS FROM DAMAGE DURING REMAINDER OF CONSTRUCTION.
      1. 1/8" MASONITE SMOOTH BOARD AT HEAVY TRAFFIC AREAS.
      2. 5 MM CORREX TWIN-WALL TAPED JOINTS POLYPROPYLENE SHEET, FINE FLUTE.
19. EXTEND FLOORING INTO ALL TOE KICKS, KNEE SPACES AND EXPOSED AREAS UNDER EXISTING CASEWORK. FLOORING AS SCHEDULED SHALL BE INSTALLED UNDER ALL NEW CASEWORK.
20. MOLD AND MOISTURE RESISTANT GYPSUM BOARD SHALL BE USED AT ALL TOILET ROOMS, AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSUM BOARD FINISHES. THIS INCLUDES UNDER ALL NEW CASEWORK AND APPLIANCES.
21. SEE REFLECTED CEILING PLAN & NOTES FOR CEILING HEIGHTS, MATERIAL EXTENTS, LOCATIONS, & HEIGHTS OF BULKHEADS, SOFFITS, ETC.
22. PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISH. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
23. PROVIDE SEALANT / CAULK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURER'S GUIDELINES.
24. WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAMS ENCLOSURES, RECESSES, BULKHEADS MATERIAL CHANGES, OR OTHER ENCLOSURES. REFER TO REFLECTED CEILING PLANS.
25. WALLS MAY CONTAIN MORE THAN ONE MATERIAL OR FINISH. REFER TO CONSTRUCTION TYPES, FLOOR PLANS, SECTIONS, DETAILS, AND INTERIOR ELEVATIONS.
26. ORIENTATION - ON PLANS NORTH WALL IS UP, EAST IS RIGHT, SOUTH IS DOWN, WEST IS LEFT.
27. FINISHES CALLED OUT IN TAG ARE FIELD FINISHES. SEE FINISH PLAN(S), ELEVATIONS, RCP(S) & ROOM SCHEDULE FOR EXTENTS OF ACCENTS.

GENERAL SYMBOL LEGEND

ROOM TAG FINISH:

XX - #	CEILING FINISH
XX - #	WALL FINISH
XX - #	WALL BASE FINISH
XX - #	FLOOR FINISH

TRANSITION STRIP BETWEEN MATERIALS - SEE INTERIOR DETAILS

FLOORING PATTERN INSTALL DIRECTION

FINISH TAG:

XX - # SEE FINISH LEGEND

XX - # ACCENT WALL

FLOOR FINISH PATTERNS:

CONC-1 CPT-1 LVT-1 LVT-2 PFT-1

SDT-1 SV-1 WOM-1

NOTE: HATCH PATTERNS REPRESENT MATERIAL ONLY.

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
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SHEET TITLE

FIRST FLOOR FINISH PLAN

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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SCALE:	As indicated
DRAWN BY: MAD	PROJ MGR: BMR

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1 SECOND FLOOR FINISH PLAN

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

GENERAL FINISH PLAN NOTES

1. REFER TO SHEET A604 FOR ROOM SCHEDULE AND A605 FOR FINISH SCHEDULE.
2. REVIEW ALL FIELD CONDITIONS AND PLANNED WORK. ALL DISCREPANCIES IN A MANNER APPROVED BY THE ARCHITECT THAT COULD AFFECT THE FINISHED OR TRANSITIONS PRIOR TO PROCEEDING WITH WORK AFFECTED BY DISCREPANCIES.
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7. PREPARE SLAB TO RECEIVE NEW FINISHES, INCLUDING STRUCTURALLY BONDED HYDRAULIC CEMENT UNDERLAY AND FLASH PATCHING REQUIRED TO LEVEL AND SMOOTH FLOOR TO 1/8" IN 20'-0" NON-CUMULATIVE, UNLESS OTHERWISE INDICATED AS IRREGULARITIES AND SHALL EXHIBIT NEUTRALLY RELATIVE TO ACIDITY AND ALKALINITY. REMOVE GREASE, DIRT CURING COMPOUNDS AND OTHER MATERIALS THAT WILL IMPAIR THE PERFORMANCE AND/OR ADHESION OF THE SCHEDULED FLOORING.
8. LOCATE FLOOR FINISH TRANSITIONS AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
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        3. DAMP – MOP FLOOR COVERINGS TO REMOVE MARKS AND SOIL.
    - C. PROTECT FLOOR COVERINGS FROM DAMAGE DURING REMAINDER OF CONSTRUCTION.
        1. 1/8" MASONITE SMOOTH BOARD AT HEAVY TRAFFIC AREAS.
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GENERAL SYMBOL LEGEND

ROOM TAG FINISH:

XX - #	CEILING FINISH
XX - #	WALL FINISH
XX - #	WALL BASE FINISH
XX - #	FLOOR FINISH

TRANSITION STRIP BETWEEN MATERIALS - SEE INTERIOR DETAILS

FLOORING PATTERN INSTALL DIRECTION

FINISH TAG:

XX - # — SEE FINISH LEGEND

XX - # — ACCENT WALL

FLOOR FINISH PATTERNS:

CONC-1 CPT-1 LVT-1 LVT-2 PFT-1

SDT-1 SV-1 WOM-1

NOTE: HATCH PATTERNS REPRESENT MATERIAL ONLY.

N

0' 4' 8' 16'

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

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ARCHITECTURE ENGINEERING

North Carolina
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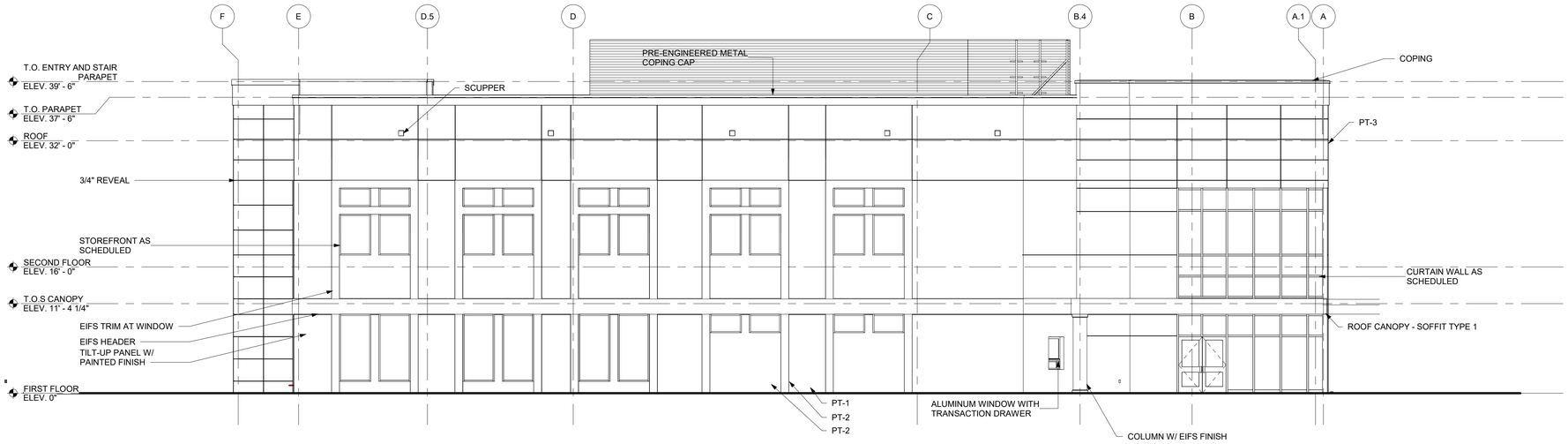

1 EAST ELEVATION

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

2 SOUTH ELEVATION

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

0' 4' 8' 16'

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

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SHEET TITLE

EXTERIOR ELEVATIONS

ISSUE BLOCK

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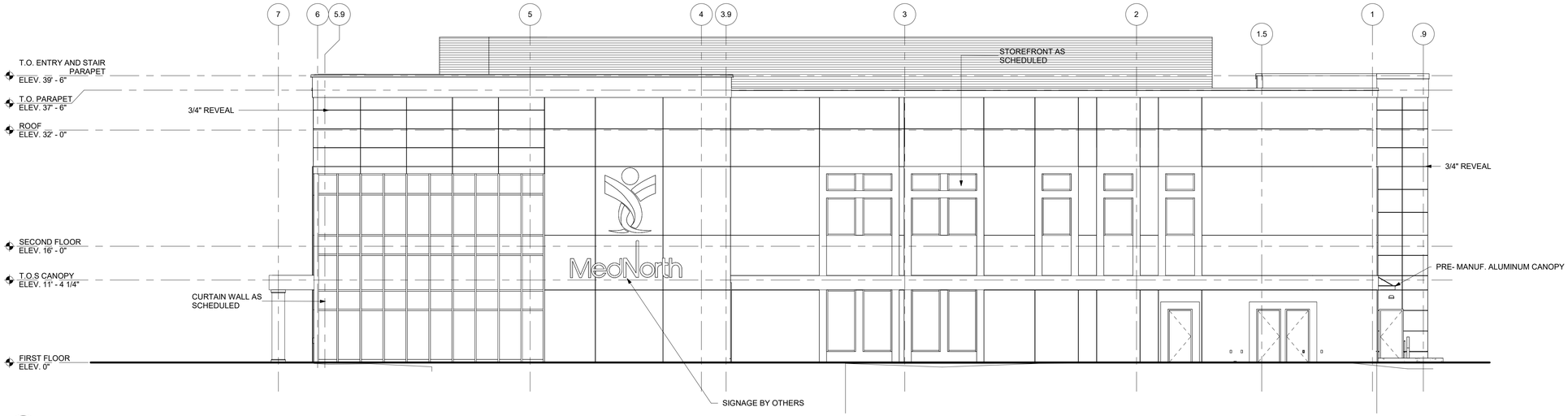
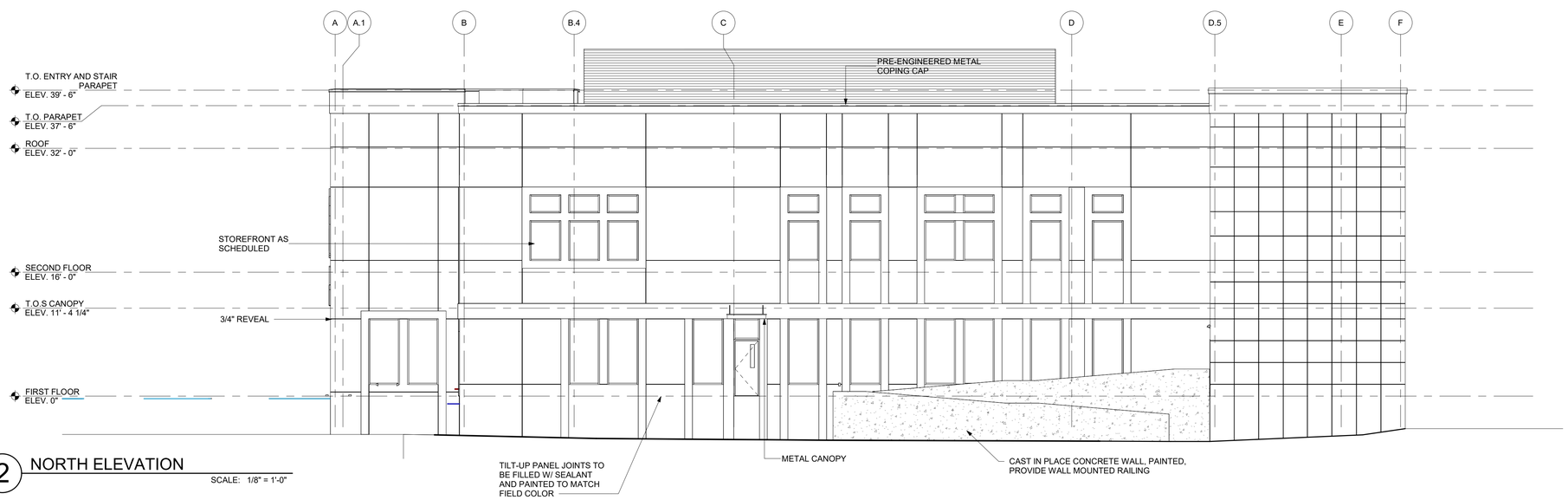


1 WEST ELEVATION

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



2 NORTH ELEVATION

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

0' 4' 8' 16'

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

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3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS

ISSUED: 05/10/2024

SHEET TITLE

EXTERIOR ELEVATIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1/8" = 1'-0"
DRAWN BY: HVD	PROJ MGR: BMR

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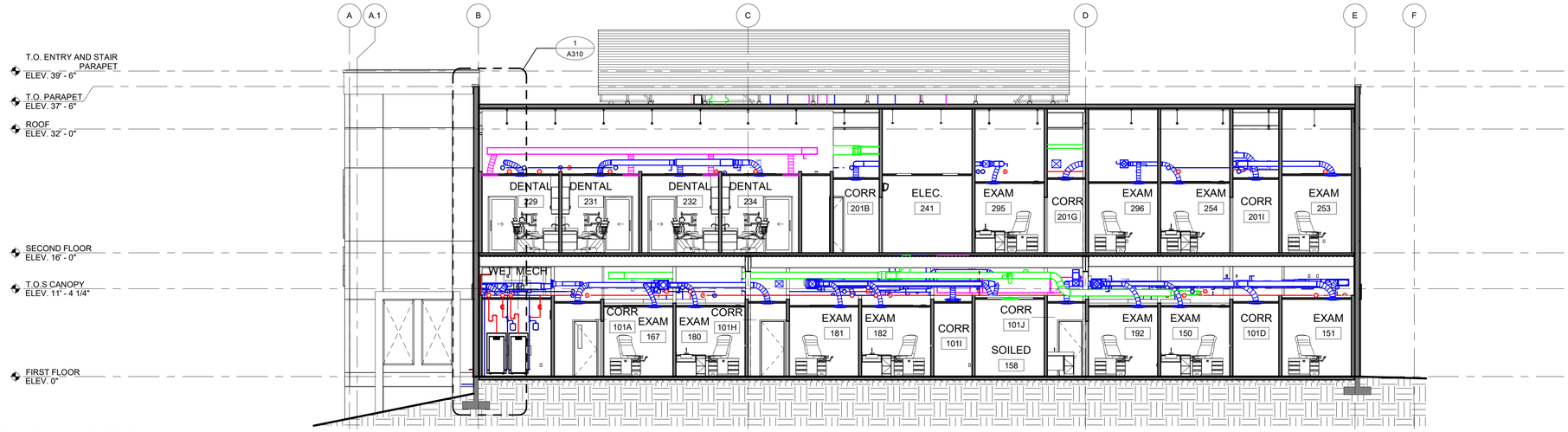

1 BUILDING SECTION

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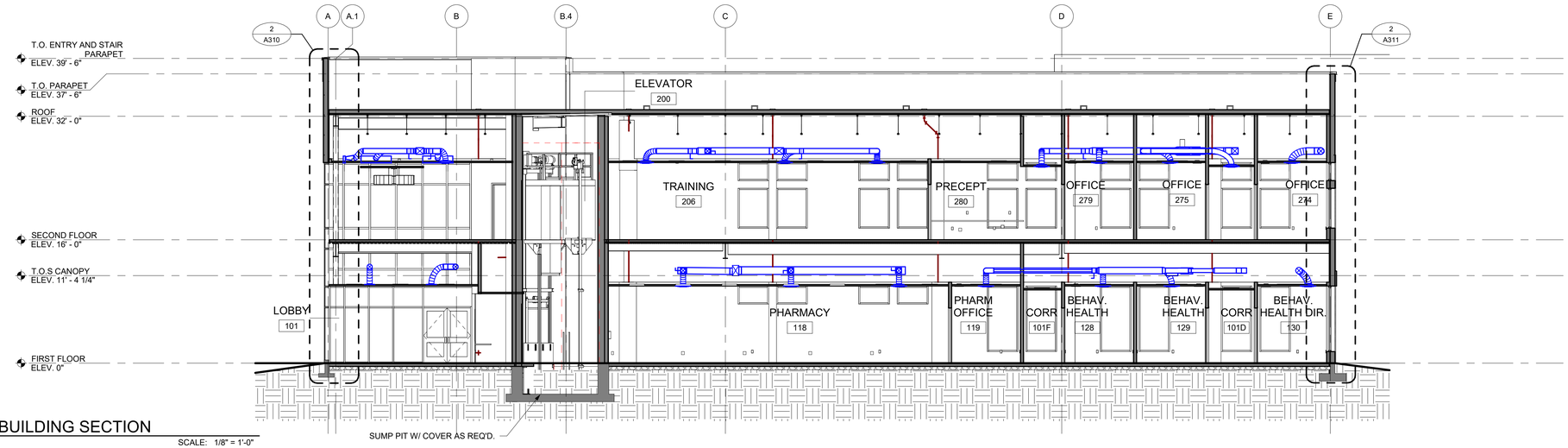

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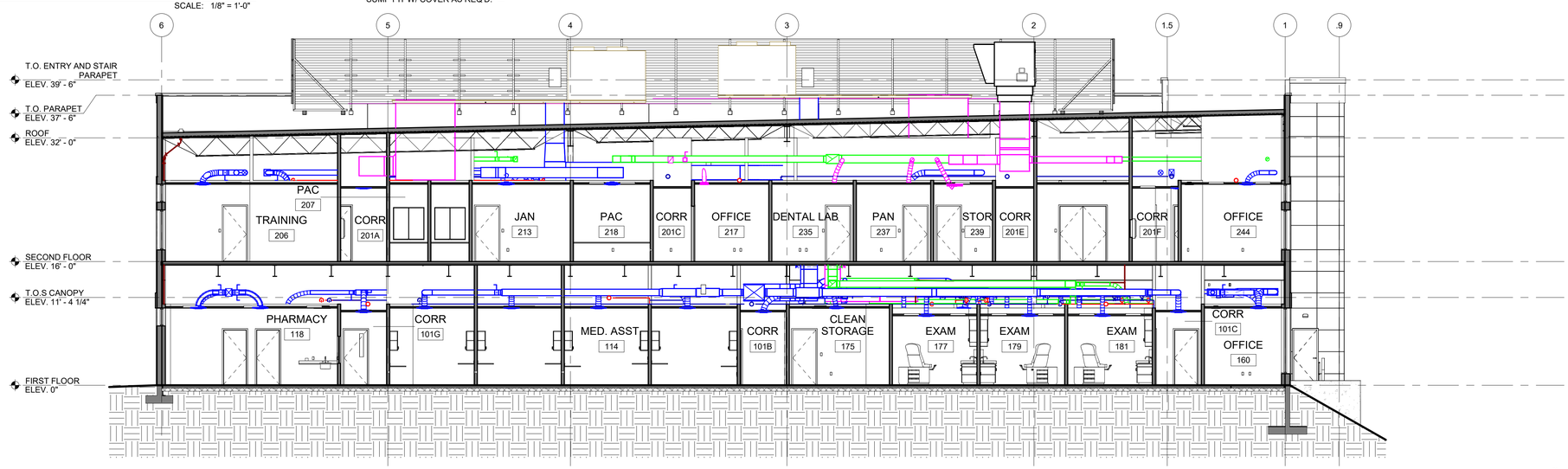

3 BUILDING SECTION

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

0' 4' 8' 16'

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

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
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Salisbury, MD 21801
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Newark, DE 19713
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WILMINGTON, NC 28401

PRELIMINARY

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SHEET TITLE

BUILDING SECTIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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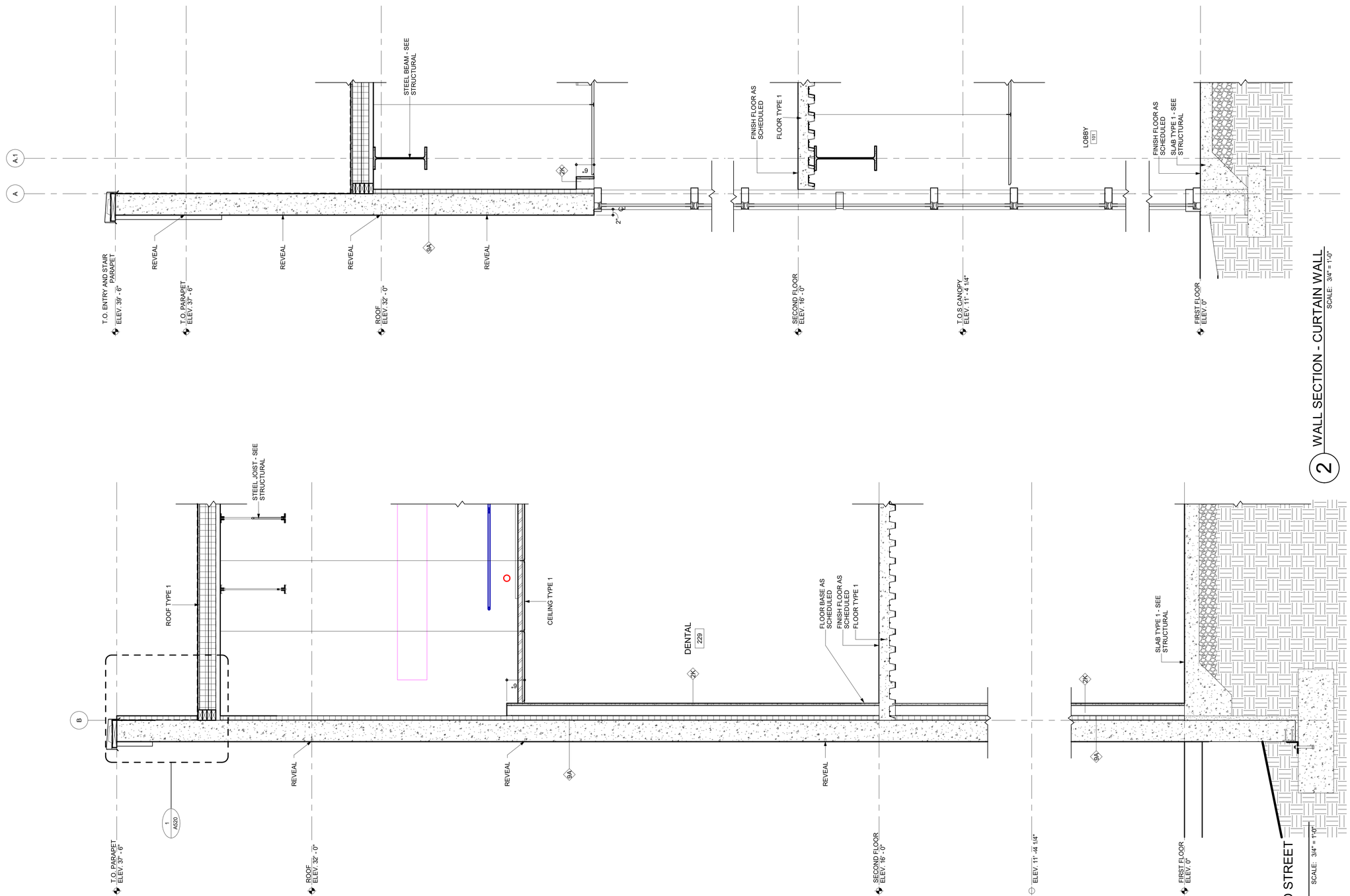

2 WALL SECTION - CURTAIN WALL
SCALE: 3/4" = 1'-0"

1 WALL SECTION - 3RD STREET CANOPY
SCALE: 3/4" = 1'-0"

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ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

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Charlotte, NC 28202
980.270.9100

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302.734.7950

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SHEET TITLE

WALL SECTIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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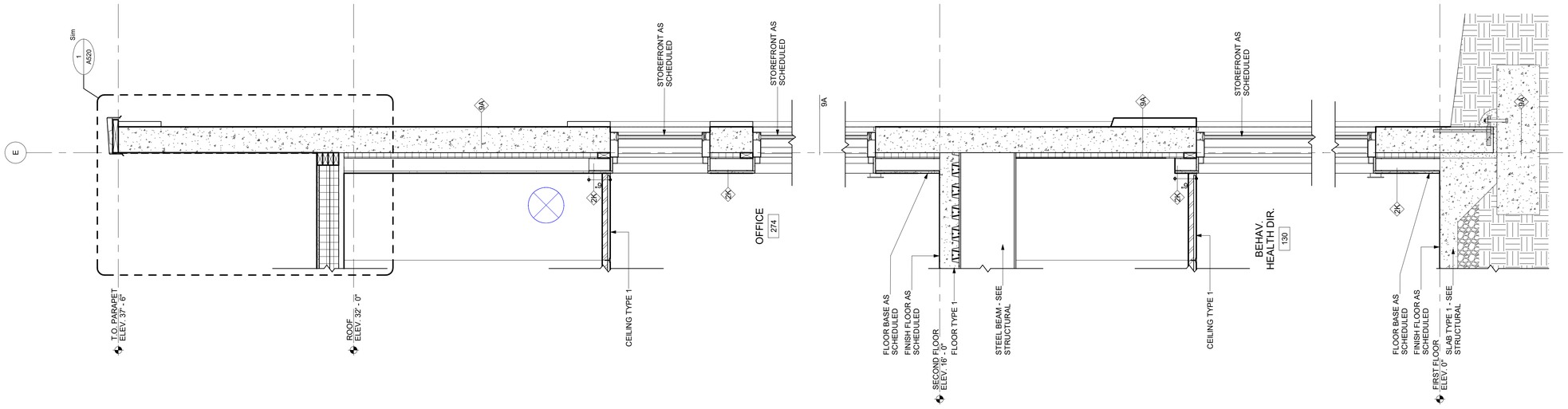
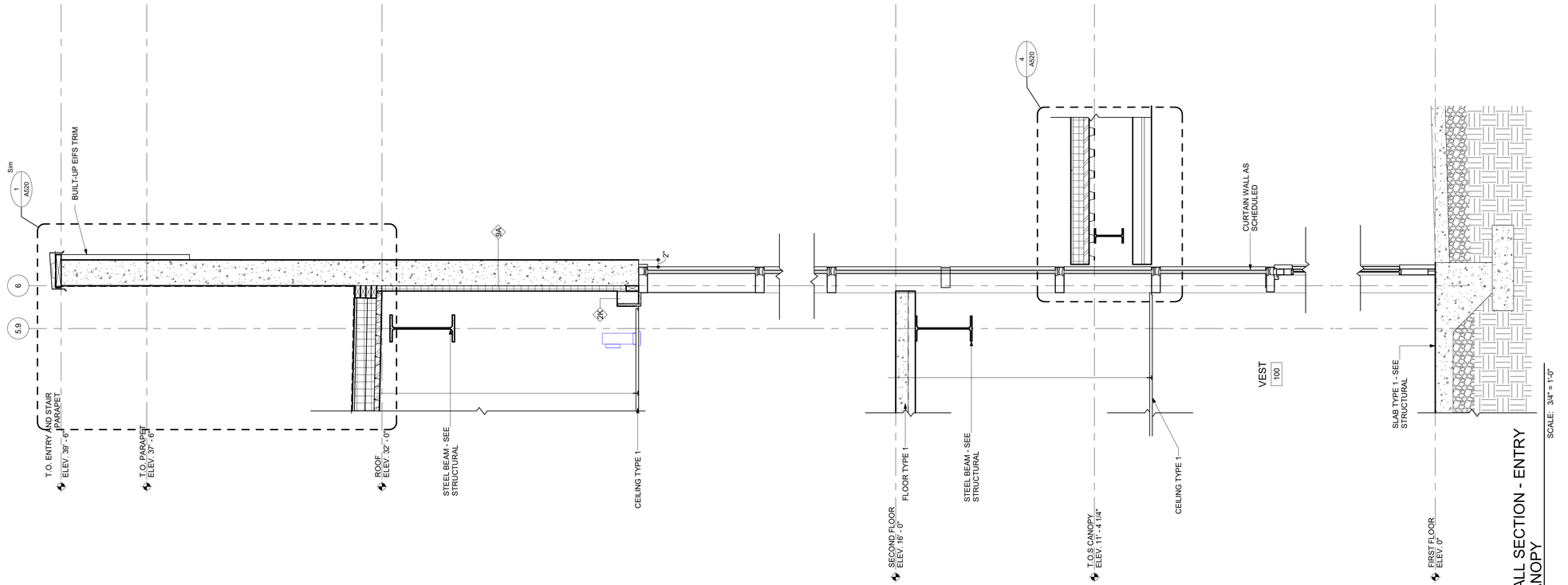


2 WALL SECTION - TYPICAL WALL AT STOREFRONT WINDOW

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



1 WALL SECTION - ENTRY CANOPY

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

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North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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SHEET TITLE

WALL SECTIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	3/4" = 1'-0"
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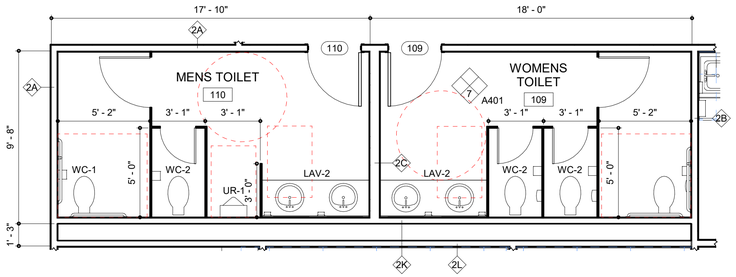
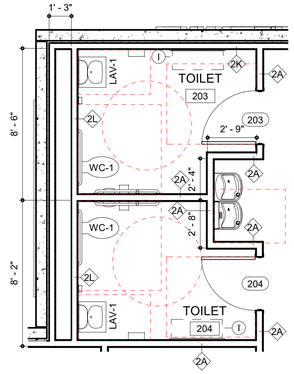


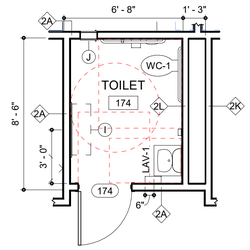
1 ENLARGED TOILET PLAN - MENS 110/ WOMENS 109

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



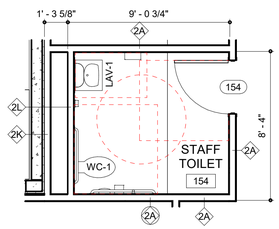
2 ENLARGED TOILET PLAN - TOILET 203/204

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



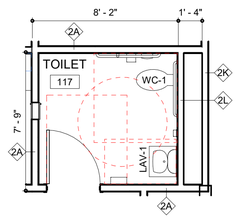
3 TYPICAL EXAM POD TOILET

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



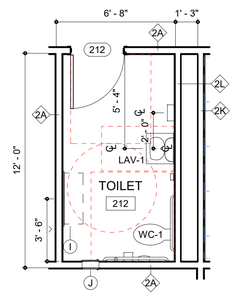
4 ENLARGED TOILET PLAN

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



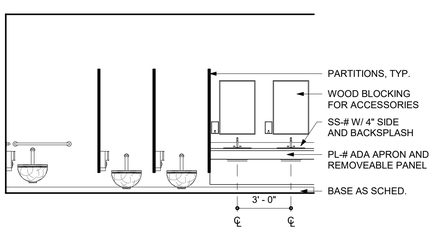
5 ENLARGED TOILET PLAN

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



6 ENLARGED TOILET PLAN

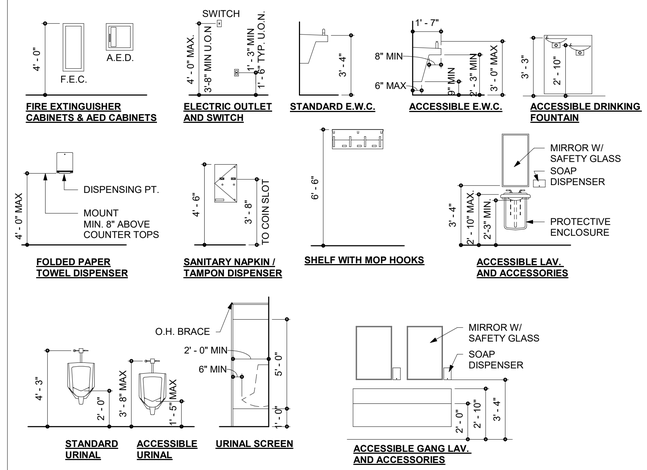
SCALE: 1/4" = 1'-0"



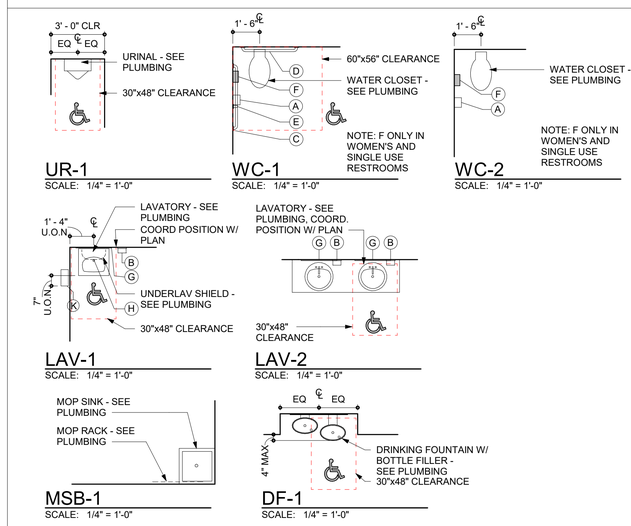
7 WOMENS TOILET 109 SOUTH ELEVATION

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

STANDARD MOUNTING HEIGHTS



PLUMBING FIXTURE TYPES



TOILET ACCESSORY SCHEDULE

KEY	ACCESSORY DESCRIPTION
A	TOILET PAPER DISPENSER
B	SOAP DISPENSER
C	GRAB BAR 42" LONG HORIZONTAL
D	GRAB BAR 36" LONG HORIZONTAL
E	GRAB BAR 18" LONG VERICAL
F	SANITARY NAPKIN DISPOSAL
G	24" X 36" MIRROR
H	UNDERLAV SHIELD
I	BABY CHANGING STATION
J	SPECIMEN PASS -THRU
K	PAPER TOWEL DISPENSER

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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Dover, DE 19904
302.734.7950

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302.369.3700

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CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE

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WILMINGTON, NC 28401

PRELIMINARY

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ISSUED: 05/10/2024

SHEET TITLE

PLUMBING TYPES, TYPICAL TOILET ROOM ENLARGED PLANS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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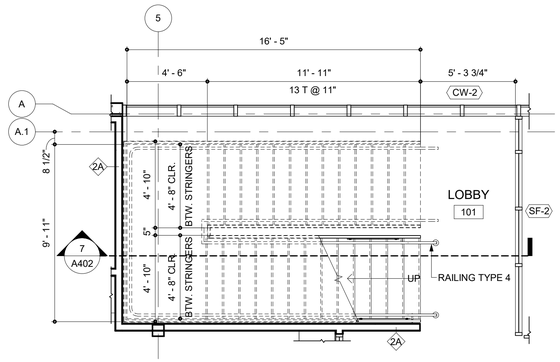
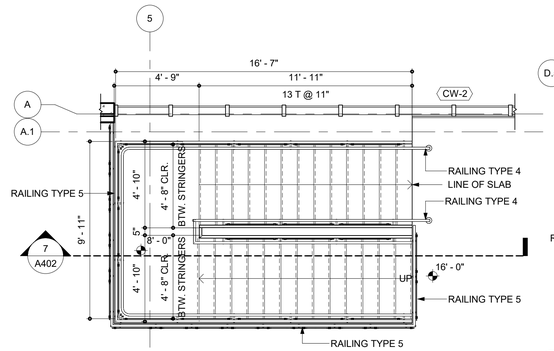


1 ENLARGED STAIR PLAN 101

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



2 ENLARGED STAIR PLAN 201

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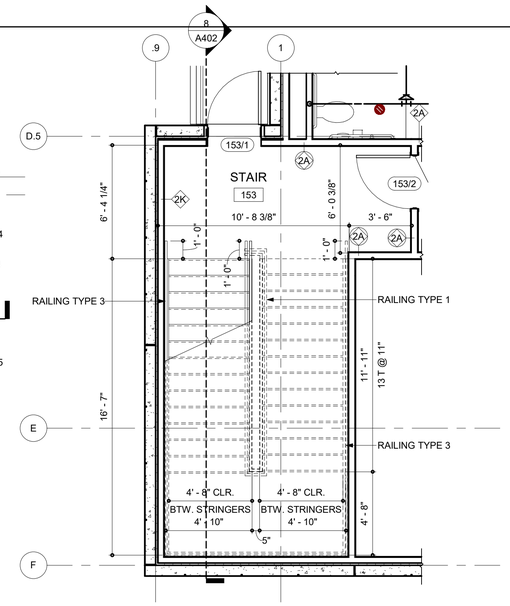
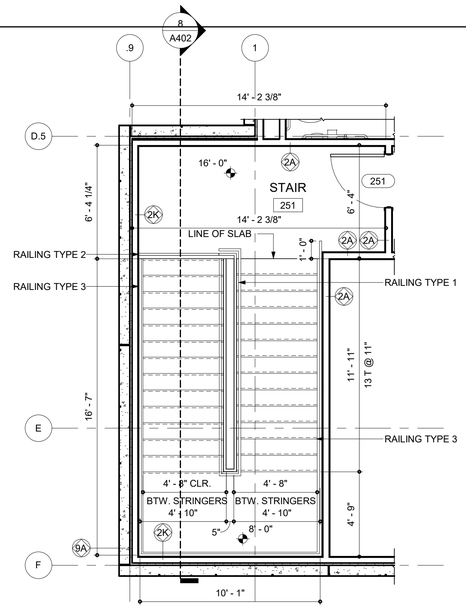


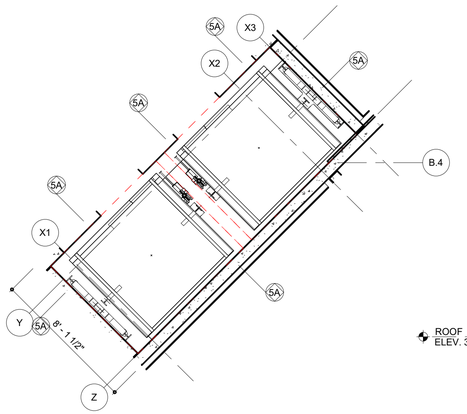
3 ENLARGED STAIR PLAN 153

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



4 ENLARGED STAIR PLAN 251

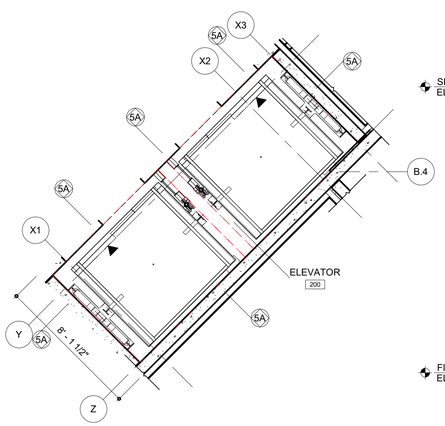
SCALE: 1/4" = 1'-0"



5 ENLARGED ELEVATOR 103

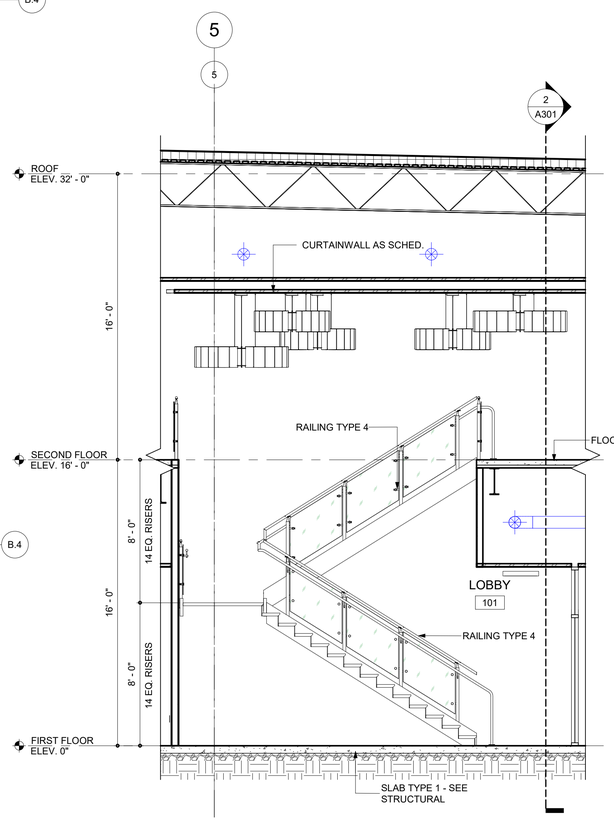
SCALE: 1/4" = 1'-0"

THE ELEVATOR CONTRACTOR, AND ALL OTHER RELEVANT CONTRACTORS, SHALL COORDINATE CONSTRUCTION OF THE ELEVATOR IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS (INCLUDING, BUT NOT LIMITED TO: SHAFT REQUIREMENTS, DIMENSIONS, OVERHEAD CLEARANCE, HOIST BEAMS, SMOKE DETECTORS, SUMP DEPRESSION, PUMPS, AND GRATES, ETC.) TO ENSURE THE ELEVATOR'S PROPER PERFORMANCE.



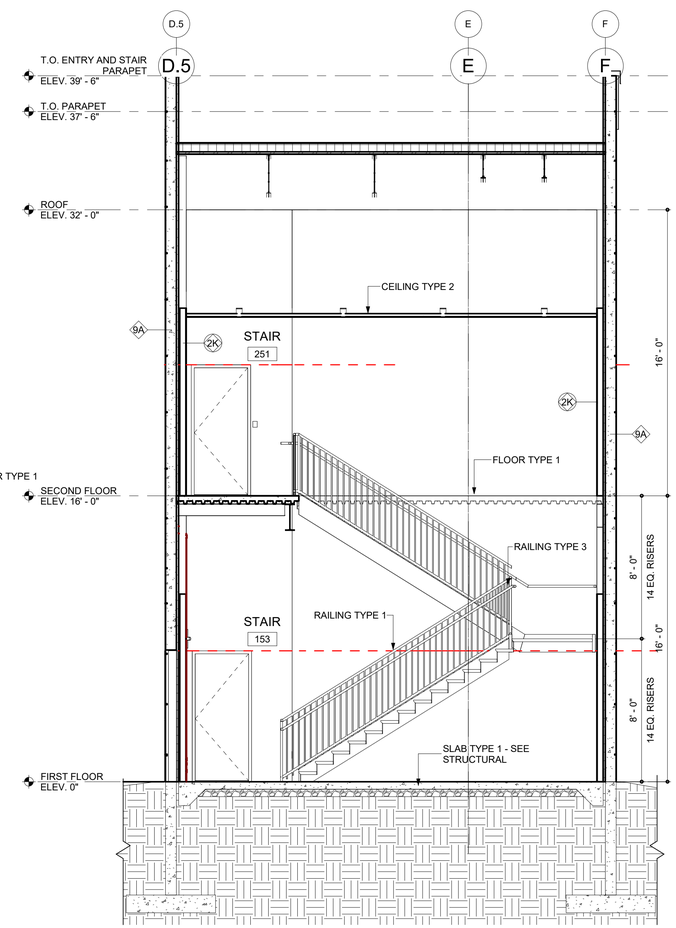
6 ENLARGED ELEVATOR 200

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



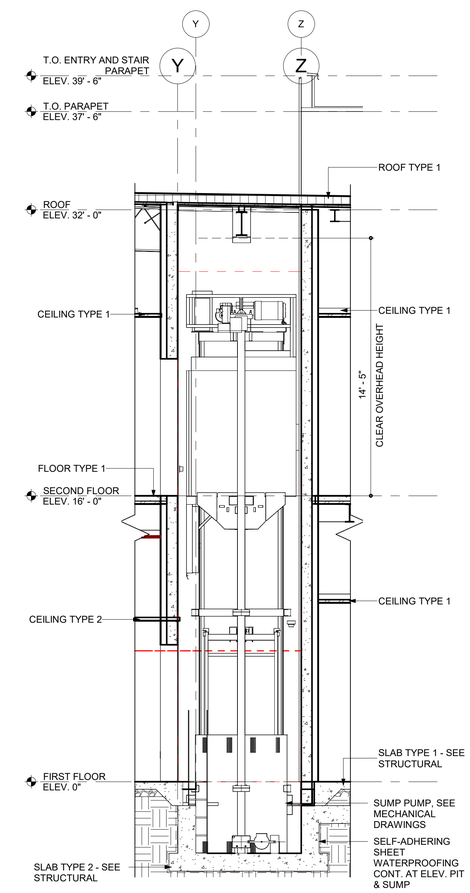
7 STAIR 101/201 SECTION

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



8 STAIR 153/251 SECTION

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



9 ELEVATOR 103/200 SECTION

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

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
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CONSULTANT INFORMATION

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PRELIMINARY

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SHEET TITLE

STAIR PLAN & SECTIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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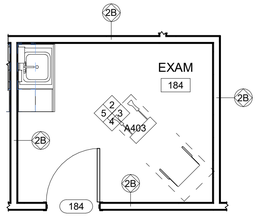
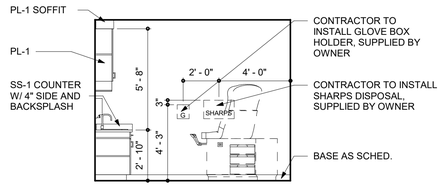


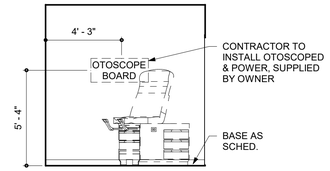
1 ENLARGED TYPICAL EXAM ROOM

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



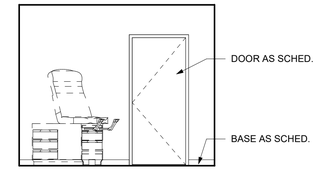
2 TYPICAL EXAM ROOM 179 NORTH ELEVATION

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



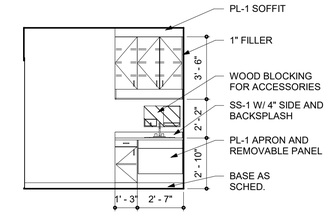
3 TYPICAL EXAM ROOM 179 EAST ELEVATION

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



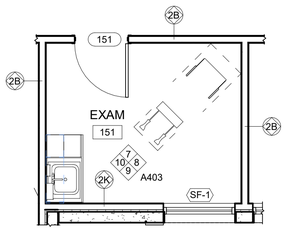
4 TYPICAL EXAM ROOM 179 SOUTH ELEVATION

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



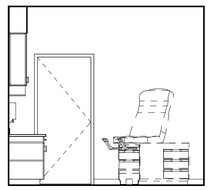
5 TYPICAL EXAM ROOM 179 WEST ELEVATION

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



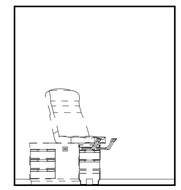
6 ENLARGED TYPICAL ADA EXAM ROOM

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



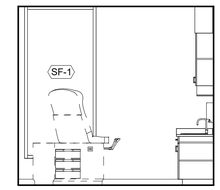
7 TYPICAL ADA EXAM ROOM 147 NORTH ELEVATION

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



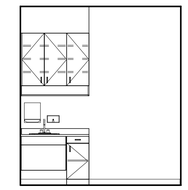
8 TYPICAL ADA EXAM ROOM 147 EAST ELEVATION

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



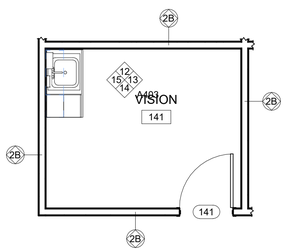
9 TYPICAL ADA EXAM ROOM 147 SOUTH ELEVATION

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



10 TYPICAL ADA EXAM ROOM 147 WEST ELEVATION

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

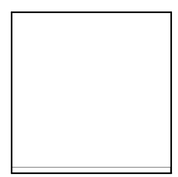


11 ENLARGED TYPICAL VISION ROOM

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

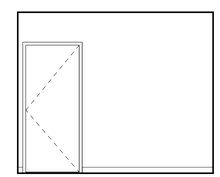
12 TYPICAL VISION 141 NORTH ELEVATION

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



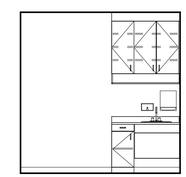
13 TYPICAL VISION 141 EAST ELEVATION

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



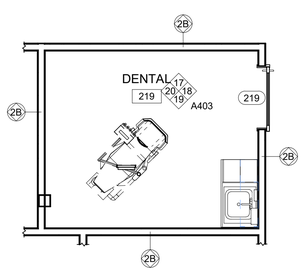
14 TYPICAL VISION 141 SOUTH ELEVATION

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



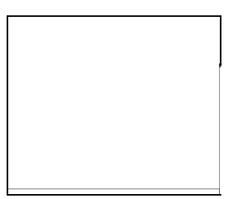
15 TYPICAL VISION 141 WEST ELEVATION

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



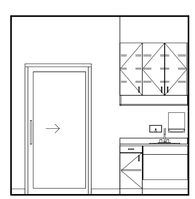
16 ENLARGED TYPICAL DENTAL ROOM

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



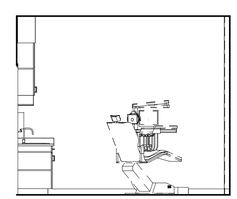
17 TYPICAL DENTAL 219 NORTH ELEVATION

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



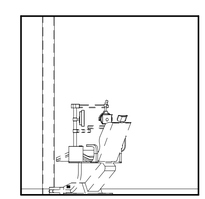
18 TYPICAL DENTAL 219 EAST ELEVATION

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



19 TYPICAL DENTAL 219 SOUTH ELEVATION

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



20 TYPICAL DENTAL 219 WEST ELEVATION

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

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY. SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS

ISSUED: 05/10/2024

SHEET TITLE

TYPICAL EXAM ROOMS ENLARGED PLANS AND ELEVATIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1/4" = 1'-0"
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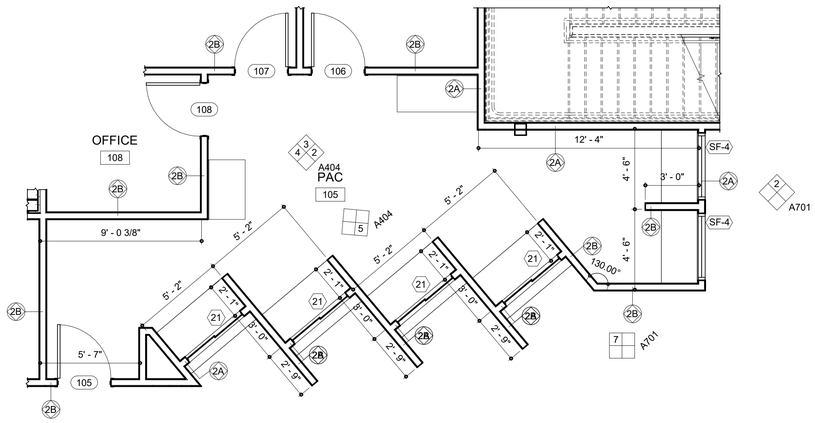
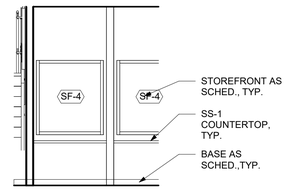
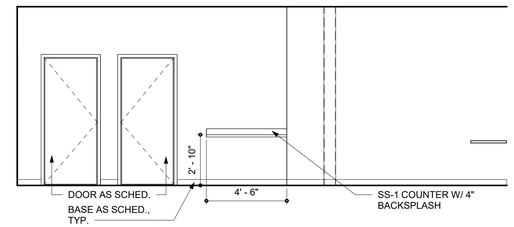


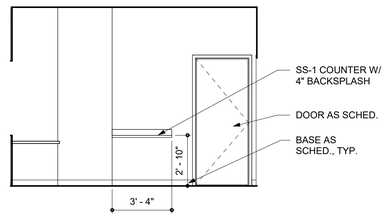
1 PAC 105 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



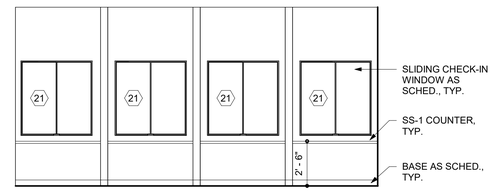
2 PAC 105 EAST ELEVATION
SCALE: 1/4" = 1'-0"



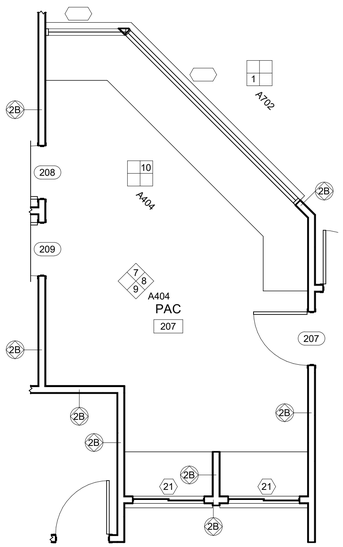
3 PAC 105 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



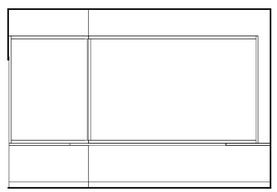
4 PAC 105 WEST ELEVATION
SCALE: 1/4" = 1'-0"



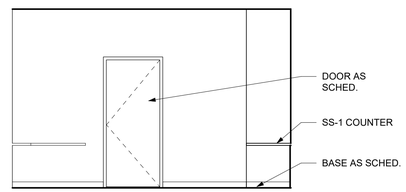
5 PAC 105 CHECK IN SOUTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



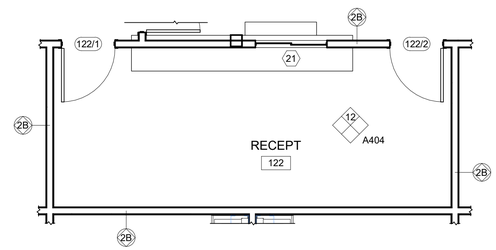
6 PAC 207 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



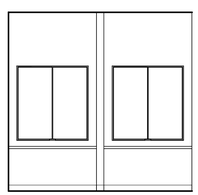
7 PAC 207 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



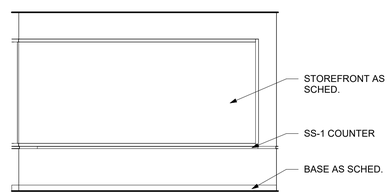
8 PAC 207 EAST ELEVATION
SCALE: 1/4" = 1'-0"



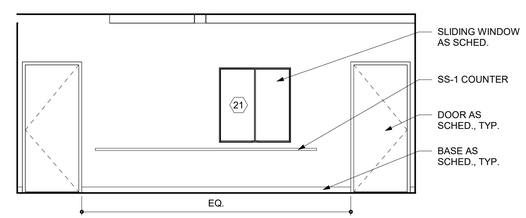
11 RECPT 122 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



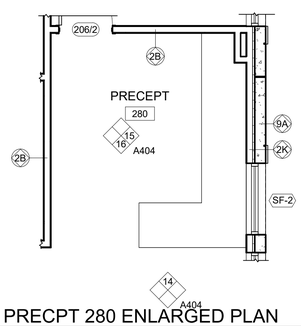
9 PAC 207 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



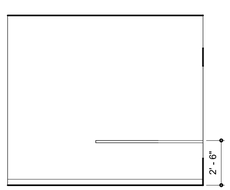
10 PAC 207 NORTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



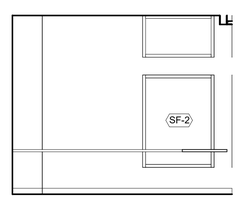
12 RECEPTION 122 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



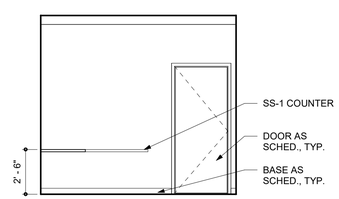
13 PRECPT 280 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



14 RECEPTION 280 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



15 RECEPTION 280 EAST ELEVATION
SCALE: 1/4" = 1'-0"



16 RECEPTION 280 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
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ISSUED: 05/10/2024

SHEET TITLE

PAC & RECEPT. ENLARGED PLANS AND ELEVATIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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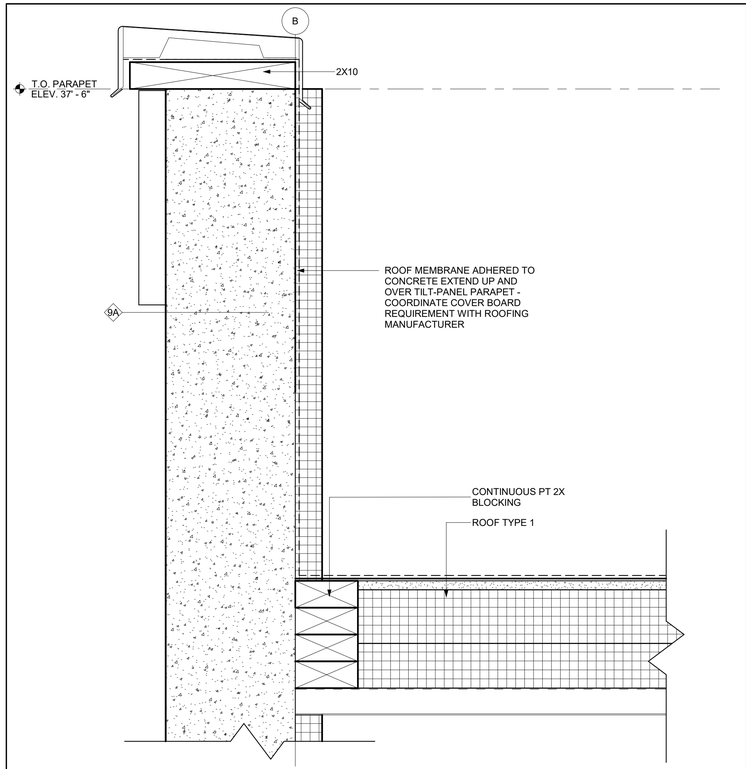
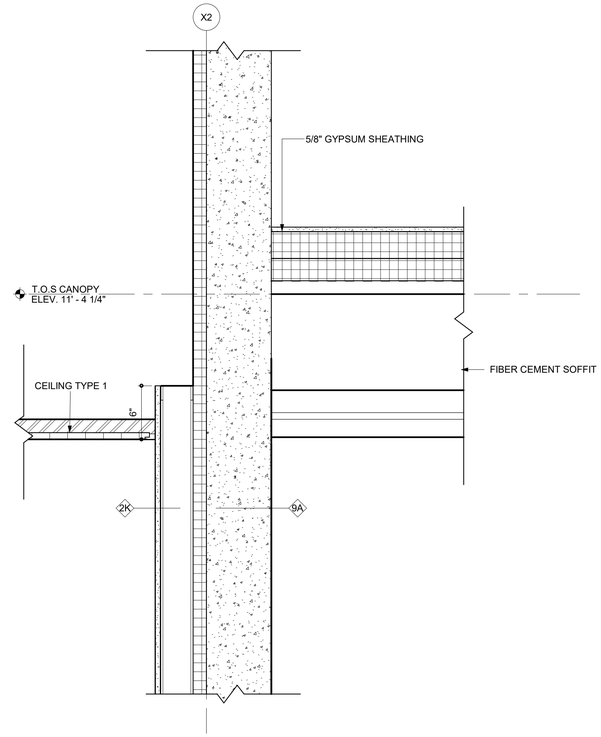


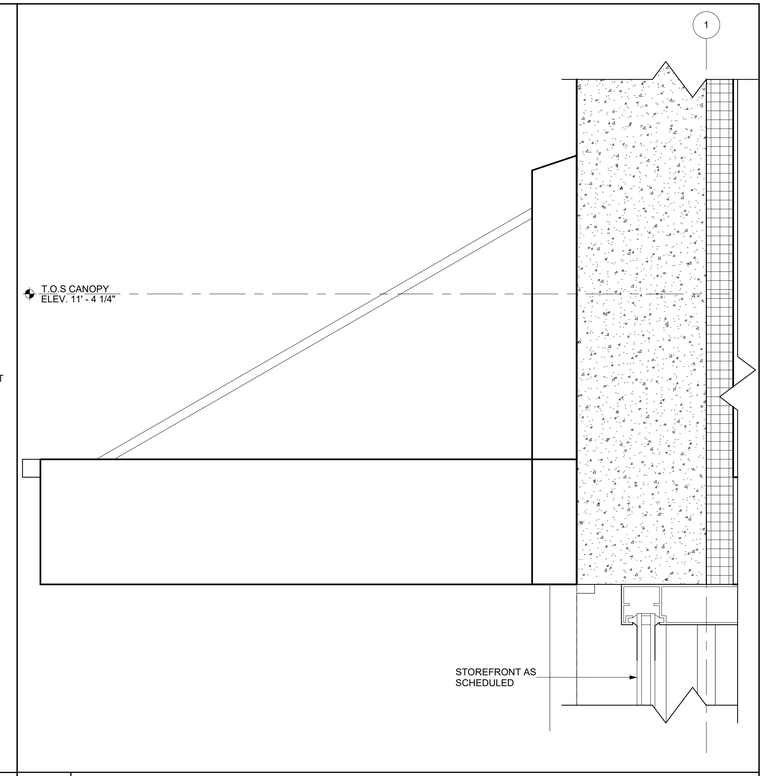
1 TYPICAL PARAPET DETAIL

SCALE: 3" = 1'-0"



2 PHARMACY CANOPY DETAIL

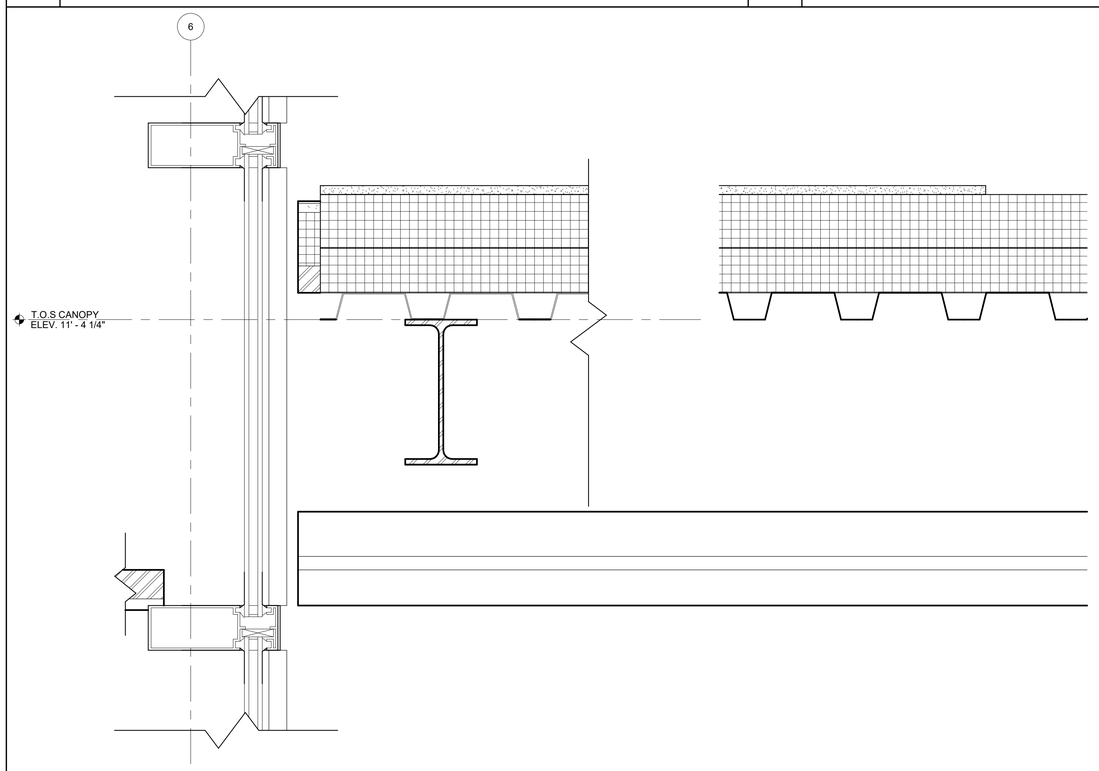
SCALE: 1 1/2" = 1'-0"



3 TYPICAL DOOR CANOPY DETAIL

9A

SCALE: 3" = 1'-0"



4 ENTRY CANOPY DETAIL

SCALE: 3" = 1'-0"

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

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100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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ISSUED: 05/10/2024

SHEET TITLE

ROOF DETAILS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
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DRAWN BY: MMM	PROJ MGR: BMR

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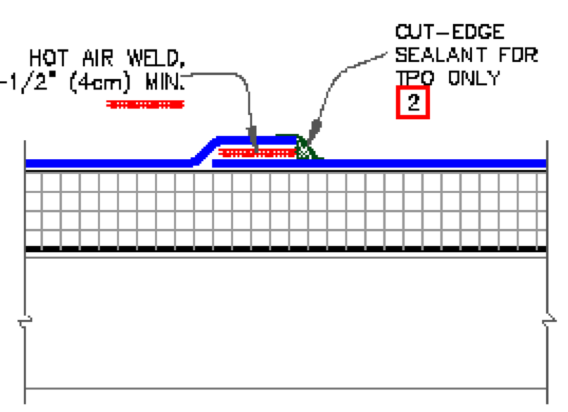
THERMOPLASTIC MEMBRANE — PVC/TPO



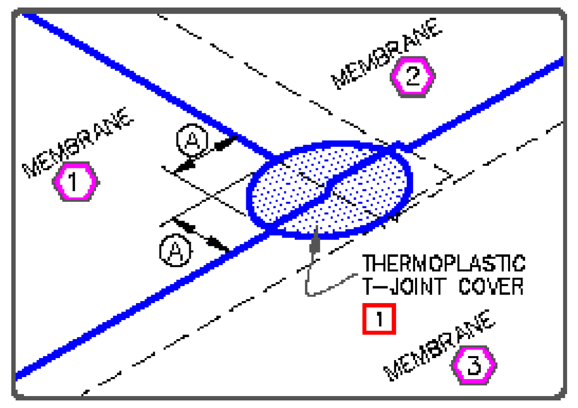
NOTES:

1. WHEN USING 60-MIL TPO OR 80-MIL TPO OR PVC MEMBRANE, APPLY A 4-1/2" (11.5cm) DIAMETER "T-JOINT" COVER AT ALL FIELD SPLICE INTERSECTIONS.
2. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
3. WHEN USING 60-MIL TPO, MAXIMUM WARRANTY IS 20 YEARS

DIMENSIONS	cm	
(A) 2-1/4"	6	MIN.

T-JOINT REQUIREMENTS

MEMBRANE	THICKNESS		
	45/50	60	80
PVC	N/A	N/A	YES
KEE HP	N/A	N/A	YES
TPO	N/A	YES	YES



CARLISLE SYNTEC SYSTEMS	MEMBRANE SPLICE	DETAIL NO. U-2A
	MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

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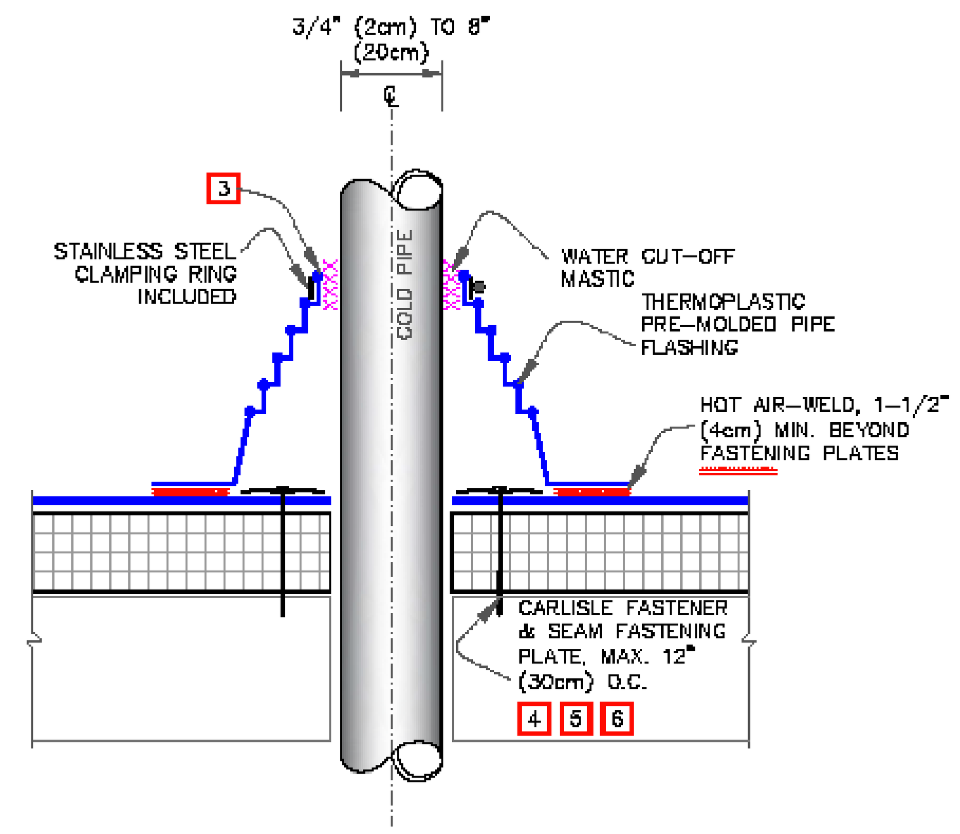
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-MOLDED PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
3. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER.
4. INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12" (30cm) O.C. AND FLASHED WITH THERMOPLASTIC REINFORCED MEMBRANE / TPO CUT-EDGE SEALANT. REFER TO DETAIL U-8B.
5. FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (46cm).
6. ON MECHANICALLY FASTENED SYSTEMS, HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.

CARLISLE SYNTEC SYSTEMS	PRE-MOLDED PIPE FLASHING	DETAIL NO. U-8A
	MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

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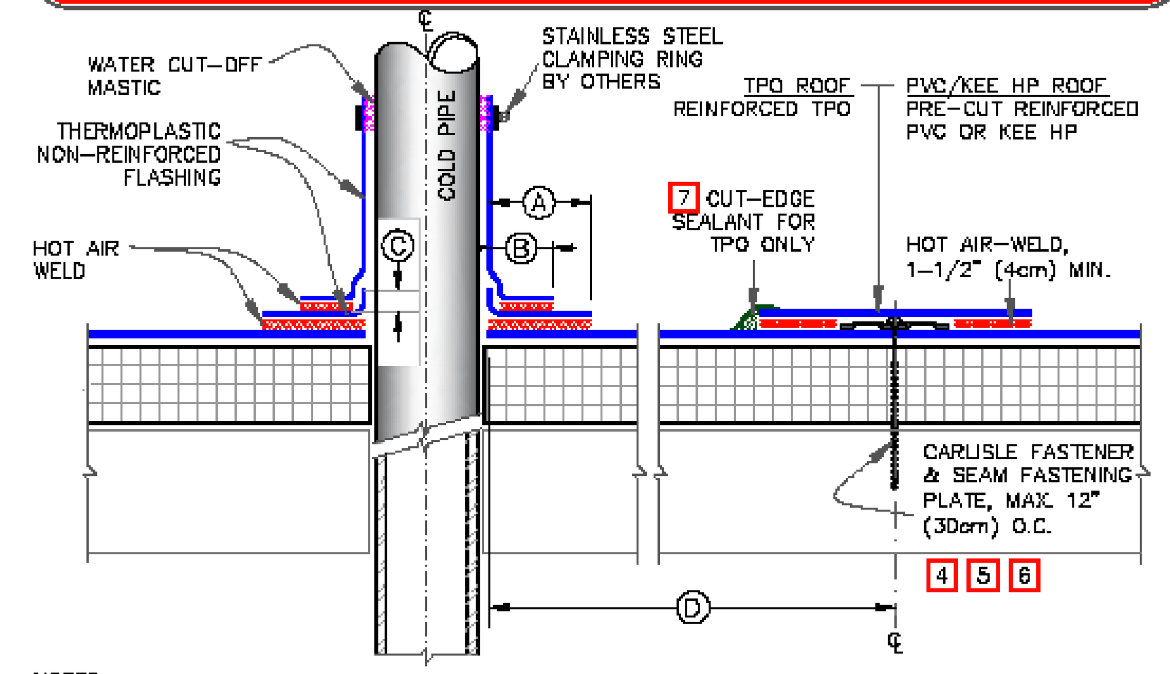
THERMOPLASTIC MEMBRANE — PVC/TPO

CAUTION: DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS. PRE-FABRICATED/PRE-MOLDED ACCESSORIES MUST BE UTILIZED. ACCEPTABLE PIPE FLASHINGS SHALL CONFORM WITH THERMOPLASTIC UNIVERSAL DETAILS U-8A OR U-8C.



NOTES:

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING FIELD FABRICATED PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
3. THERMOPLASTIC NON-REINFORCED FLASHING WRAPPED AROUND PIPE SHALL HAVE MINIMUM 1-1/2" (4cm) VERTICAL HOT AIR WELD.
4. INSTALL A MINIMUM OF 4 SEAM FASTENING PLATES FOR PIPES WITH A DIAMETER UP TO 6" (15cm). ADDITIONAL SEAM FASTENING PLATES WILL BE REQUIRED FOR PIPES GREATER THAN 6" (15cm) IN DIAMETER AND SHALL BE SPACED 12" (30cm) ON CENTER MAXIMUM.
5. FASTENERS/PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (50cm).
6. ON MECHANICALLY FASTENED SYSTEMS, HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.
7. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE ONLY.

DIMENSIONS		cm	
(A)	1-1/2"	4	TO
	2"	5	
(B)	1"	2.5	MIN.
(C)	1/2"	1.5	MIN.
(D)	12"	30	APPROX.

CARLISLE SYNTEC SYSTEMS	FIELD FABRICATED PIPE FLASHING	DETAIL NO. U-8B
	MAXIMUM WARRANTY: 20 YEARS	THERMOPLASTIC UNIVERSAL

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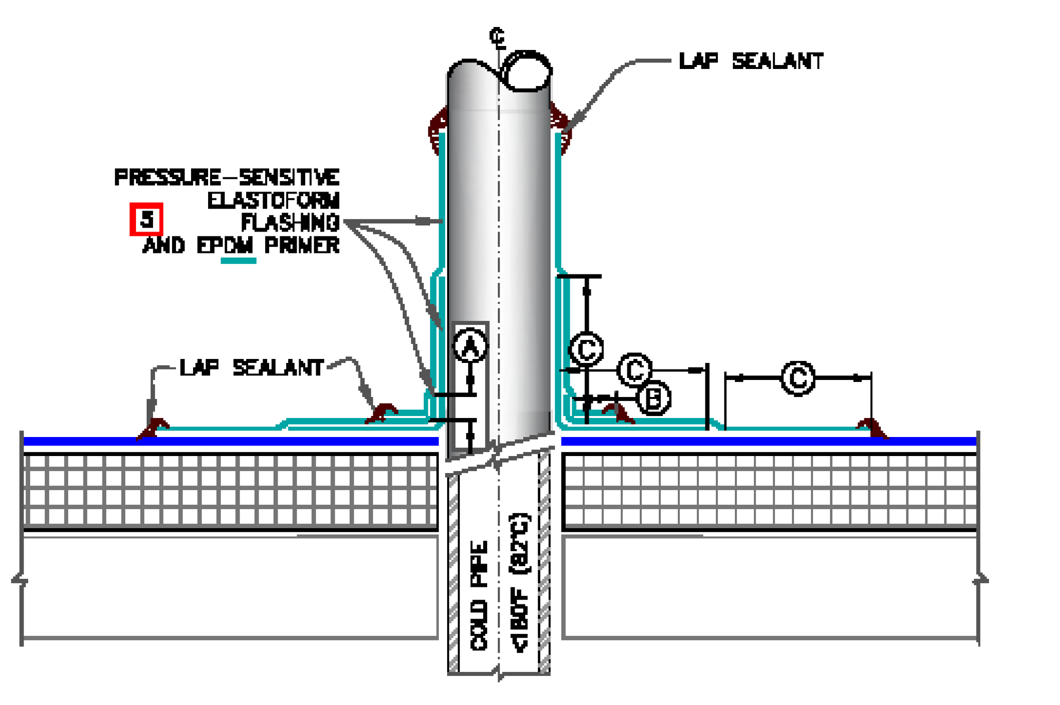
THERMOSET MEMBRANE — EPDM



NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD-FABRICATED FLASHING.
2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).
3. PIPE FLASHING MAY BE USED WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS.
4. FOR STRUCTURAL STEEL TUBING GREATER THAN 12" (30cm) ACROSS, USE DETAIL(S) U-5.
5. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
6. ON MECHANICALLY FASTENED ROOFING SYSTEMS, REFER TO DETAIL MF-8B.1.
7. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (46cm) IN DIAMETER.

DIMENSIONS		cm	
(A)	1/2"	1.5	MIN.
(B)	1"	2.5	MIN.
(C)	3"	7.5	MIN.

CARLISLE SYNTEC SYSTEMS	FIELD FABRICATED PIPE WRAP (25/30 YEAR WARRANTIES)	DETAIL NO. U-8B.1
	MAXIMUM WARRANTY: 30 YEARS	THERMOSET UNIVERSAL

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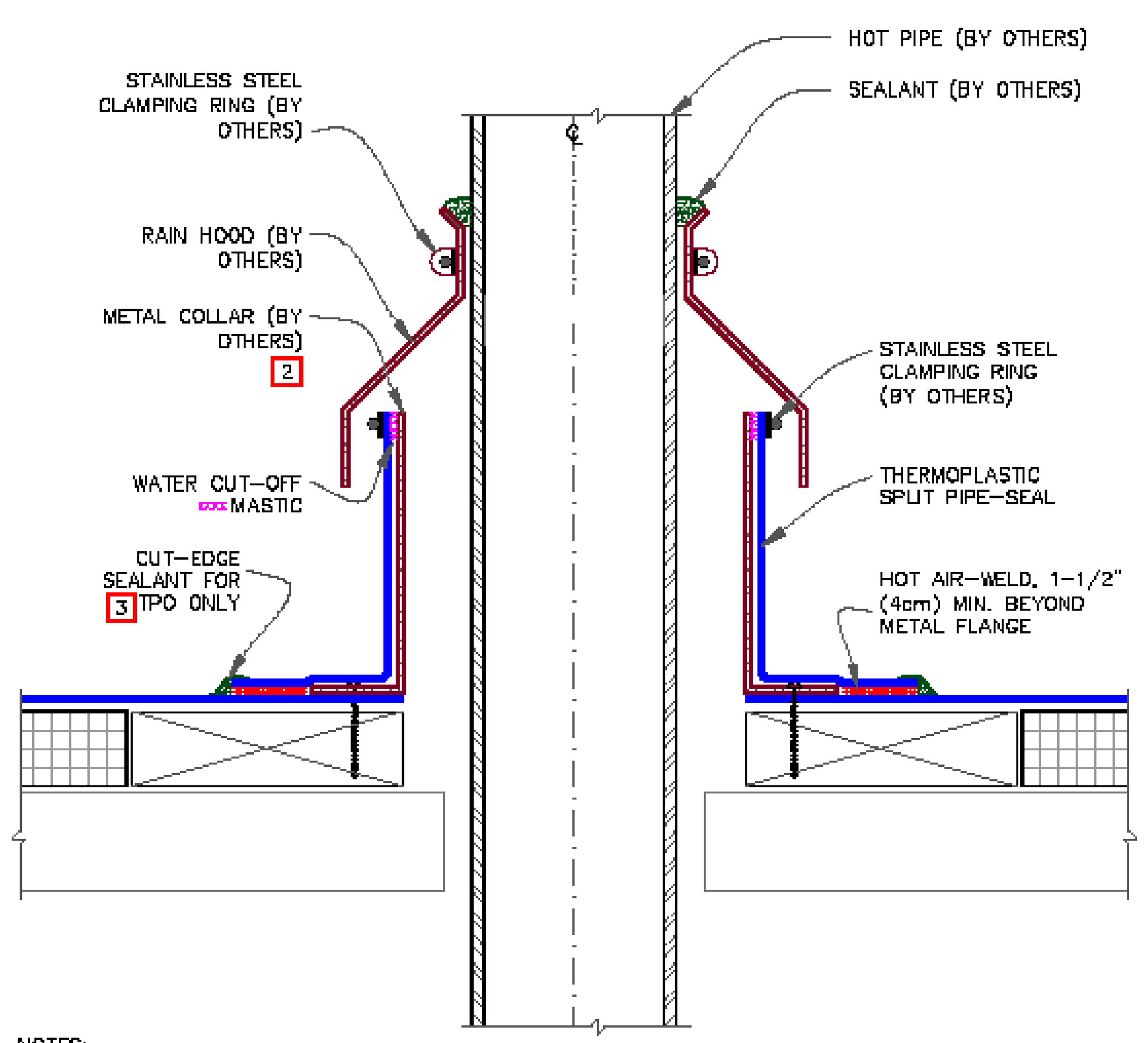
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PIPE FLASHING.
2. TEMPERATURE OF THE METAL COLLAR MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO.
3. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE ONLY.
4. T-JOINT COVERS ARE NOT REQUIRED ON WHITE, TAN OR GRAY, FOR ADDITIONAL COLORS IT IS REQUIRED TO COVER T-JOINTS.

CARLISLE SYNTEC SYSTEMS	CFA CERTIFIED HOT PIPE FLASHING	DETAIL NO. U-8F
	MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

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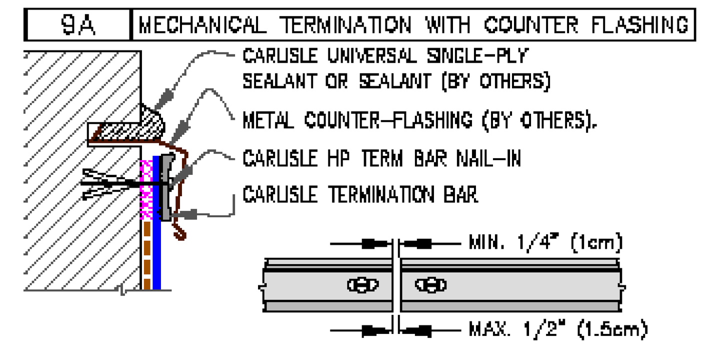
THERMOPLASTIC MEMBRANE — PVC/TPO

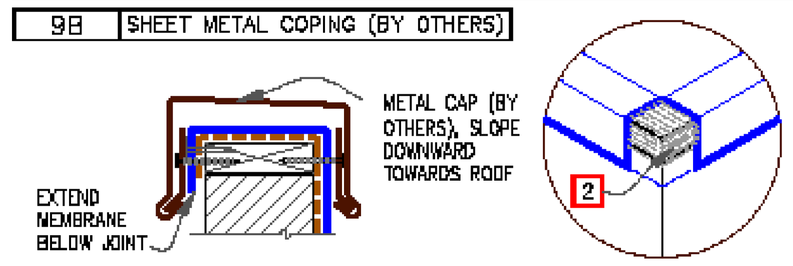
9A MECHANICAL TERMINATION WITH COUNTER FLASHING



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP TERMINATION BAR AROUND CORNERS.
3. DETAIL REQUIRED FOR USE ON WARRANTY PROJECTS EXCEEDING 20-YEARS.
4. DETAIL 9E MUST BE USED AT VERTICAL JOINTS IN PANEL WALLS.

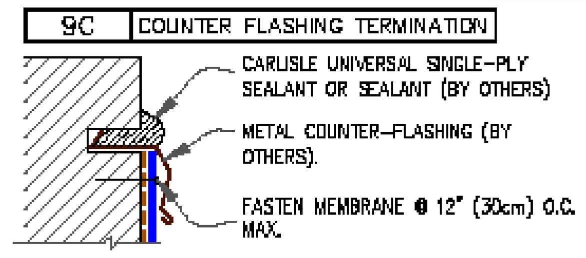
9B SHEET METAL COPING (BY OTHERS)



NOTES:

1. FOR CARLISLE SecurEdge COPING, REFER TO INSTALLATION INSTRUCTIONS PUBLISHED SEPARATELY.
2. MEMBRANE MUST BE EXTENDED TO CORNERS TO PROVIDE COMPLETE COVERAGE OF THE TOP WALL SURFACE.

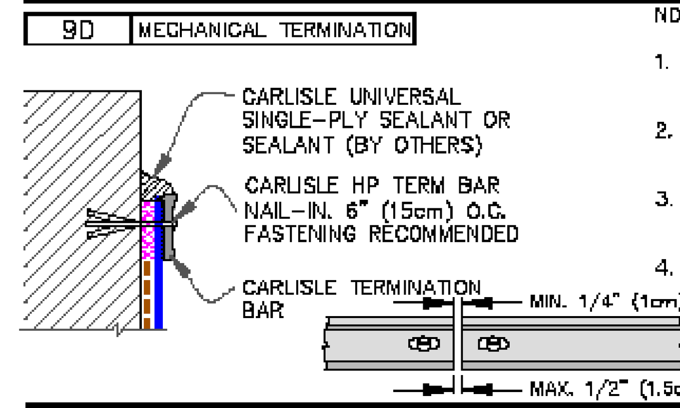
9C COUNTER FLASHING TERMINATION



NOTES:

1. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.
2. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 10-YEARS.

9D MECHANICAL TERMINATION



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP COMPRESSION TERMINATION BAR AROUND CORNERS.
3. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 20-YEARS.
4. DETAIL 9E MUST BE USED AT VERTICAL JOINTS IN PANEL WALLS.

--- APPLICABLE BONDING ADHESIVE.

XXX WATER CUT-OFF MASTIC— MUST BE HELD UNDER CONSTANT COMPRESSION.

CARLISLE SYNTEC SYSTEMS	MEMBRANE TERMINATIONS PAGE 1 OF 2	DETAIL NO. U-9
	MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

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BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950
The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
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ISSUED: 05/10/2024

SHEET TITLE

MANUFACTURERS DETAILS - TPO

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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SCALE:	
DRAWN BY: Author	PROJ MGR: Checker

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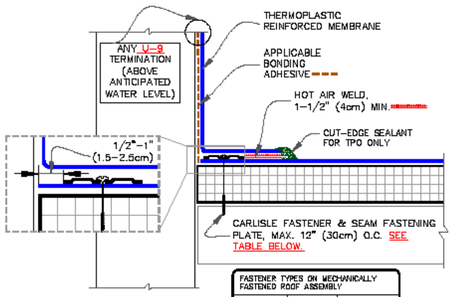
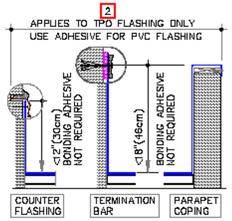
THERMOPLASTIC MEMBRANE — PVC/TPO

CAUTION: FASTENERS AND PLATES ARE REQUIRED AT 6" (15cm) O.C. FOR ADHERED SYSTEMS WITH WARRANTY WIND SPEED COVERAGE GREATER THAN 90 MPH AND FOR ALL PROJECTS WITH WARRANTIES GREATER THAN 20 YEARS.



FASTENER TYPES ON MECHANICALLY FASTENED ROOF ASSEMBLY		
DECK TYPE	FASTENERS	PLATES
STEEL & WOOD DECK	HP-X OR	PIRANHA
	HP-XTRA	PIRANHA XTRA
CONCRETE DECK	CD-10 OR HD 14-10	PIRANHA



NOTES:

1. IN CASES WHERE FASTENERS MUST BE FASTENED INTO THE VERTICAL SURFACE, CARE MUST BE TAKEN TO PRESS THE MEMBRANE TIGHTLY INTO THE ANGLE CHANGE. PLACING THE PLATES TIGHT INTO THE ANGLE CHANGE WILL HELP HOLD THE MEMBRANE IN THE PROPER POSITION.
2. FOLLOW U-9 DETAILS FOR WARRANTY DURATION.

CARLISLE SYNTEC SYSTEMS | PARAPET FLASHING – FASTENED INTO DECK | MAXIMUM WARRANTY: 30 YEARS | DETAIL NO. U-12A | THERMOPLASTIC UNIVERSAL

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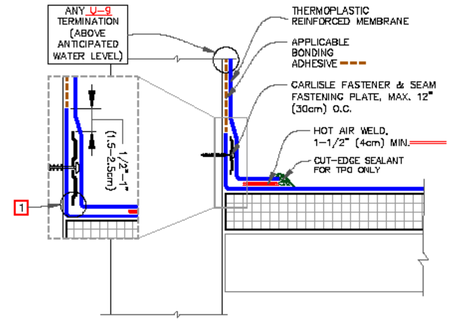
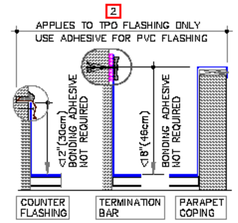
THERMOPLASTIC MEMBRANE — PVC/TPO

CAUTION: FASTENERS AND PLATES ARE REQUIRED AT 6" (15cm) O.C. FOR ADHERED SYSTEMS WITH WARRANTY WIND SPEED COVERAGE GREATER THAN 90 MPH AND FOR ALL PROJECTS WITH WARRANTIES GREATER THAN 20 YEARS.





NOTES:

1. CARE MUST BE TAKEN TO PRESS THE MEMBRANE TIGHTLY INTO THE ANGLE CHANGE. PLACING THE PLATES TIGHT INTO THE ANGLE CHANGE WILL HELP HOLD THE MEMBRANE IN THE PROPER POSITION.
2. FOLLOW U-9 DETAILS FOR WARRANTY DURATION.

CARLISLE SYNTEC SYSTEMS | PARAPET FLASHING – FASTENED INTO WALL | MAXIMUM WARRANTY: 30 YEARS | DETAIL NO. U-12A.1 | THERMOPLASTIC UNIVERSAL

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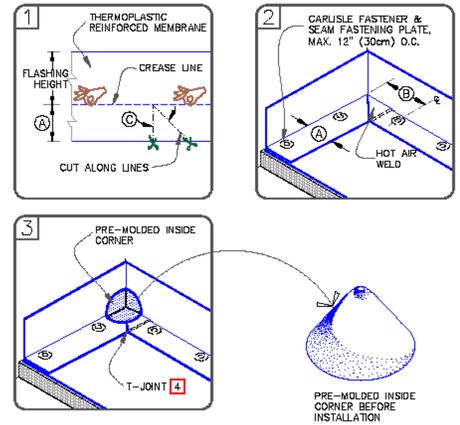
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. POSITION FASTENING PLATES 6" TO 9" (15 TO 23cm) FROM THE CORNER AND 1/2" TO 1" (1.5 TO 2.5cm) FROM EDGE OF MEMBRANE.
2. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
3. REFER TO CARLISLE SPECIFICATIONS FOR ACCEPTABLE CARLISLE FASTENERS AND PLATES.
4. WHEN USING 60-MIL TPO OR 80-MIL TPO OR PVC MEMBRANE, APPLY A 4-1/2" (11.5cm) DIAMETER "T-JOINT" COVER AT ALL FIELD SPLICE INTERSECTIONS.

DIMENSIONS	cm		
Ⓐ	6"	15	APPROX.
Ⓑ	6"–9"	15–23	
Ⓒ	45-DEGREES APPROX.		

CARLISLE SYNTEC SYSTEMS | PRE-MOLDED INSIDE CORNER FLASHING | MAXIMUM WARRANTY: 30 YEARS | DETAIL NO. U-15A | THERMOPLASTIC UNIVERSAL

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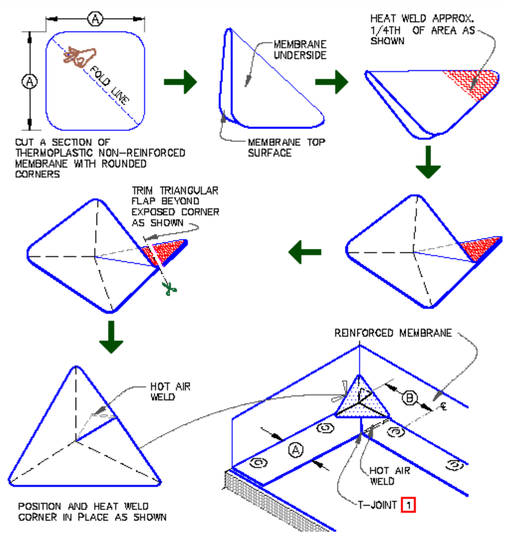
THERMOPLASTIC MEMBRANE — PVC/TPO

CAUTION: DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS. PRE-FABRICATED/PRE-MOLDED ACCESSORIES MUST BE UTILIZED. ACCEPTABLE FLASHING SHALL CONFORM WITH THERMOPLASTIC UNIVERSAL DETAIL U-15A OR U-15G.



DIMENSIONS	cm		
Ⓐ	6"	15	APPROX.
Ⓑ	6"–9"	15–23	

NOTE:

WHEN USING 60 OR 80-MIL MEMBRANE, APPLY A 4 1/2" (11cm) DIAMETER "T-JOINT" COVER AT ALL FIELD SPLICE INTERSECTIONS.

CARLISLE SYNTEC SYSTEMS | FIELD FABRICATED INSIDE CORNER FLASHING | MAXIMUM WARRANTY: 20 YEARS | DETAIL NO. U-15B | THERMOPLASTIC UNIVERSAL

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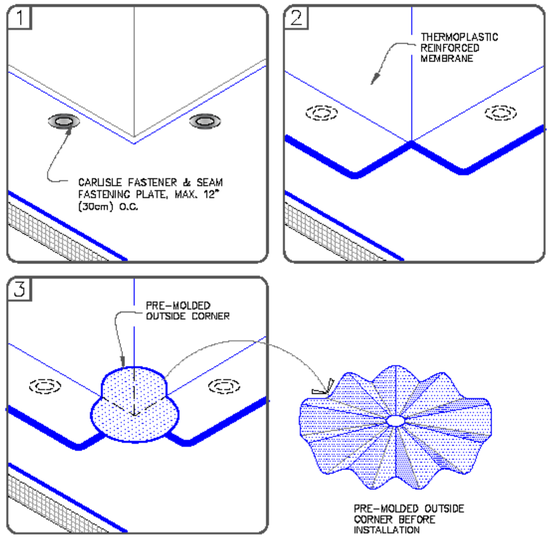
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. POSITION FASTENING PLATES 6"(15cm) FROM THE CORNER AND 1/2" TO 1" (1.5 TO 2.5cm) FROM EDGE OF MEMBRANE.
2. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
3. REFER TO CARLISLE SPECIFICATIONS FOR ACCEPTABLE CARLISLE FASTENERS AND PLATES.

CARLISLE SYNTEC SYSTEMS | PRE-MOLDED OUTSIDE CORNER FLASHING | MAXIMUM WARRANTY: 30 YEARS | DETAIL NO. U-15D | THERMOPLASTIC UNIVERSAL

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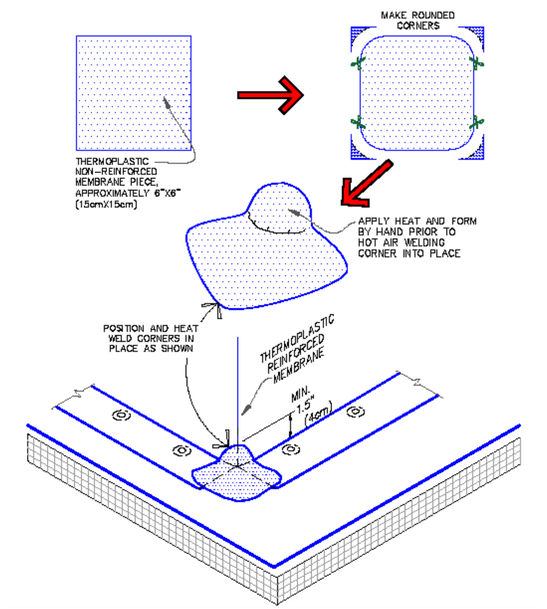
THERMOPLASTIC MEMBRANE — PVC/TPO

CAUTION: DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS. PRE-FABRICATED/PRE-MOLDED ACCESSORIES MUST BE UTILIZED. ACCEPTABLE FLASHING SHALL CONFORM WITH THERMOPLASTIC UNIVERSAL DETAIL U-15D OR U-15G.



CARLISLE SYNTEC SYSTEMS | FIELD FABRICATED OUTSIDE CORNER FLASHING | MAXIMUM WARRANTY: 20 YEARS | DETAIL NO. U-15E | THERMOPLASTIC UNIVERSAL

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BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

PROJECT TITLE

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925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

MANUFACTURERS DETAILS - TPO

ISSUE BLOCK

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DOOR SCHEDULE

MARK	DOOR							FRAME						FIRE RATING	HDWE SET
	SIZE										DETAIL				
	WIDTH	HT	THICK	MATL	TYPE	FIN	GLAZ	MATL	TYPE	FIN	HEAD	JAMB	SILL		
FIRST FLOOR															
100	6' - 0 1/4"	7' - 1 3/4"	1 3/4"	Metal - Alum, black	F	-	IG	ALUM	1	-				-	
101	6' - 1"	7' - 2"	1 3/4"	ALUM	F	-	TEMP	ALUM	1	-				-	
101A	3' - 0"	7' - 2"	1 3/4"	SCWD	B	ST	TEMP	HM	1	PT	H4	J6	S5	-	
101F	3' - 0"	7' - 2"	1 3/4"	SCWD	B	ST	TEMP	HM	1	PT	H4	J6	S5	-	
101H/1	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5		
101H/2	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5		
101I	3' - 0"	7' - 2"	1 3/4"	HM	E	PT	TEMP	HM	1	PT	H4	J6	S5	-	
104	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
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115/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
116	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
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118	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
119	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
120/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
120/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
121	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
122/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
122/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
123	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
124	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
125	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
126	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
127	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
128	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
129	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
130	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
131	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
132	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
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136	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
137	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
138	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
139	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
140	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
141	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
142	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
143	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
144	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
145	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
146	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
147	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
148	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
149	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
150	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
151	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
152	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
153/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	PT	-	HM	1	PT	H4	J6	S5	90 MIN	
153/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	90 MIN	
154	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
155	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
156	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
157	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
158	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
159	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
160	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
161	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
162	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
163	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
164	3' - 0"	7' - 2"	1 3/4"	HM	A			HM	1					-	
165	3' - 0"	7' - 2"	1 3/4"	HM	A			HM	1					45 MIN	
166	3' - 0"	7' - 2"	1 3/4"	HM	A			HM	1					-	
167	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
168	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
169	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
170	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
171	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
172	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
173	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
174	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
175/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
175/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
176	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
177	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
178	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
179	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
180	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
181	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
182	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
183	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
184	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
185	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
186	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
187	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
188	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
189	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
190	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
191	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
192	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
297	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
SECOND FLOOR															
200	3' - 0"	7' - 2"	1 3/4"	SCWD	A		-	HM						-	
201A/1	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM		PT	H4	J6	S5		
201A/2	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM		PT	H4	J6	S5		
201B	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM		PT					
201H	6' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5		
202	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
203	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
204	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
205	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
206/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A		-	HM	1	PT	H4	J6	S5	-	
206/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
207	3' - 0"	7' - 2"	1 3/4"	SCWD	A		-	HM	1	PT	H4	J6	S5	-	
208	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
209	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
210	3' - 0"	7' - 2"	1 3/4"	SCWD	A		-	HM	1	PT	H4	J6	S5	-	

DOOR SCHEDULE

MARK	DOOR							FRAME						FIRE RATING	HDWE SET
	SIZE										DETAIL				
	WIDTH	HT	THICK	MATL	TYPE	FIN	GLAZ	MATL	TYPE	FIN	HEAD	JAMB	SILL		
211	3' - 0"	7' - 2"	1 3/4"	SCWD	A		-	HM	1	PT	H4	J6	S5	-	
212	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
213	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
214	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
215	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
216	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
217	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
218	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
219	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
220	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
221	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
222	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
223	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
224	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
225/1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
225/2	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
226	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
227	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
228	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
229	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
230	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
231	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
232	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
233	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
234	3' - 4 1/2"	7' - 2"	1 3/4"	SCWD	G				2						
235	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
237	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
239	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
240	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
241	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
242	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
243	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
244	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
245	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
246	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
247	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
248	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
249	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
250	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
251	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	90 MIN	
252	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
253	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
254	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
255	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
256	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
257	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
258	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
259	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
260	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
261	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
262	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
263	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
264	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
265	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
266	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
267	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
268	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
269	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
270	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
271	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
272	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
273	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
274	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
275	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
276	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
277	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
278	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
279	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
281	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
282	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
283	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
284	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
285	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
286	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
287	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
288	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
289	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
290	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
291	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
292	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
293	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
294	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
295	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	
296	3' - 0"	7' - 2"	1 3/4"	SCWD	A	ST	-	HM	1	PT	H4	J6	S5	-	

RATED GLAZING & ASSEMBLY SCHEDULE

LOCATION	WALL ASSEMBLY RATING	DOOR			SIDELITE / TRANSOM			WINDOW	
		RATING	GLAZ TYPE	GLAZ RATING	ASSEMBLY RATING	GLAZ TYPE	GLAZ RATING	ASSEMBLY RATING	GLAZ RATING
FIREWALL	3 HR	180 MIN	NONE	N/A	4 HR	FG-FR	W-180	FG-FR	W-180
FIRE BARRIER: STAIRWAYS	1 HR	60 MIN	FG-FP <= 100 SQ IN FG-FR >100 SQ IN	D-H-60 D-H-T-60 OR D-H-T-W-60	1 HR	FG-FR	W-60	FG-FR	W-60
FIRE BARRIER: OTHER (INCIDENTAL & MIXED USE	1 HR	45 MIN	FG-FP	D-H-NT-45	3/4 HR	FG-FP	D-H	FG-FP	OH-45 OR W-60
SMOKE BARRIER	1 HR	20 MIN	FG-FP	D-20	3/4 HR	FG-FP	D-H-OH-45	FG-FP	OH-45 OR W-60
EXTERIOR WALL, RATED	1 HR	45 MIN	FG-FR	D-H-45	3/4 HR	FG-FP	D-H-45	FG-FP	OH-45 OR W-60

NOTES:

1. PROVIDE FIRE GLAZING PER IBC SECTION 716, PER SPECIFICATIONS, AND AS NOTED ABOVE
2. PROVIDE SAFETY GLAZING PER IBC SECTION 2406.
3. REFER TO DOOR SCHEDULE, DOOR AND FRAME TYPES, STOREFRONT CURTAINWALL, AND H.M. FRAME TYPES.
4. REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF RATED WALLS.

LEGEND:

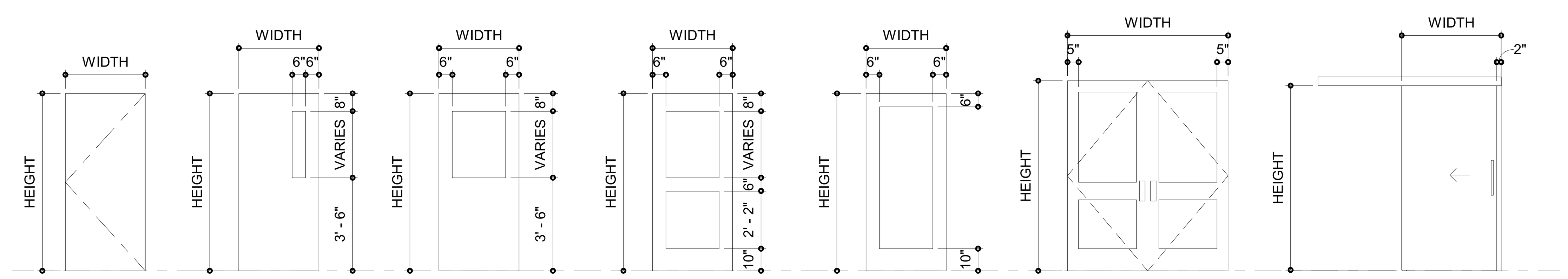
FG-FR = FIRE RESISTANCE RATED GLAZING
FG-FP = FIRE PROTECTION RATED GLAZING

DOOR SCHEDULE LEGEND

-	NONE (IE., NOT APPLICABLE OR FACTORY FINISHED)
ALUM, AL	ALUMINUM
CW	CURTAINWALL
FG	FIRE PROTECTION/FIRE-RESISTANCE RATED GLAZING
HM	HOLLOW METAL
IG	INSULATED GLAZING
LAM	LAMINATED GLAZING
PT	PAINTED
SCWD	SOLID CORE WOOD DOOR
SF	STOREFRONT
SST	STAINLESS STEEL
ST	STAINED
STL	STEEL
TEMP	TEMPERED GLAZING

DOOR SCHEDULE NOTES

1. SEE A601 FOR DOOR DETAILS, AND A602 FOR STOREFRONT AND CURTAINWALL DETAILS.
2. SEE A6## FOR RATED GLAZING SCHEDULE.
3. REFER TO GLAZING LEGEND FOR ADDITIONAL GLAZING INFORMATION.

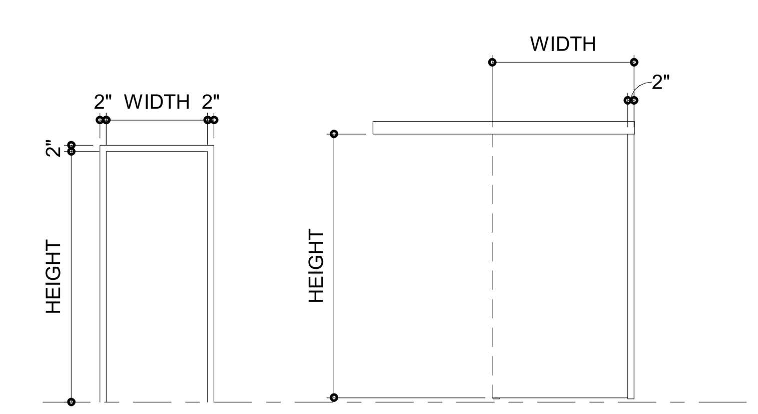


A
B - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE
C - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE
D - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE
E - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE
F - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE
G - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE

DOOR TYPES

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

NOTE: GLAZING SHALL BE TEMPERED IN DOORS, SIDELIGHTS, AND AS REQUIRED BY CODE



1
2

FRAME TYPES

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

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950
The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

BECKER MORGAN GROUP, INC. Registered Architectural Corporation 51922 North Carolina WILMINGTON, NC

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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ISSUED: 05/10/2024

SHEET TITLE

DOOR TYPES AND SCHEDULE

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
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A601

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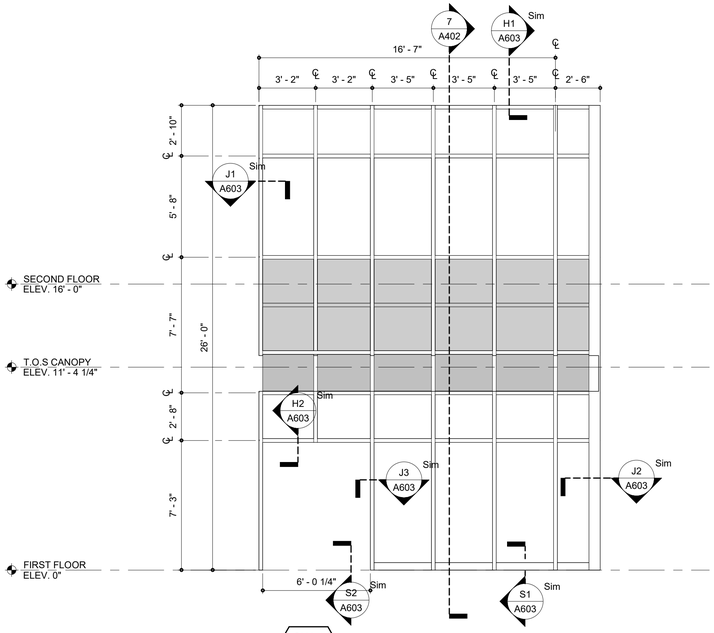
GLAZING LEGEND

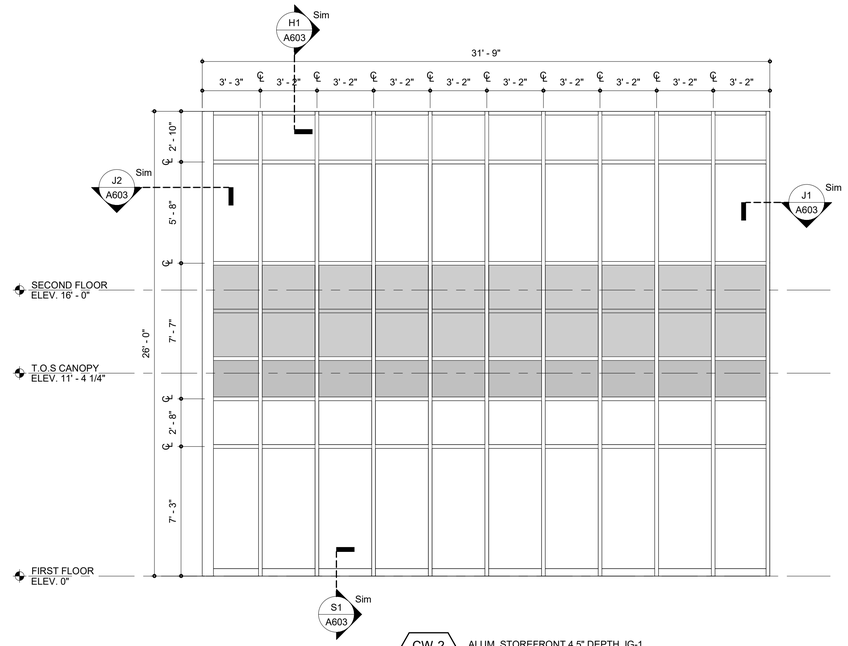
1. GLAZING SHALL BE TEMPERED IN DOORS, BORROW LIGHTS, SIDE LIGHTS, AND AS REQUIRED BY CODE, AND AS INDICATED
2. GLAZING SHALL BE SAFETY LAMINATED AS REQUIRED BY CODE, AND AS INDICATED.
3. PROVIDE FIRE-PROTECTION AND FIRE-RESISTANCE RATED GLAZING AS REQUIRED BY CODE.
4. EXTERIOR GLAZING SHALL BE INSULATED.

LAMINATED GLAZING

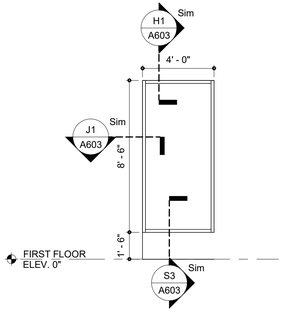
SPANDREL GLAZING



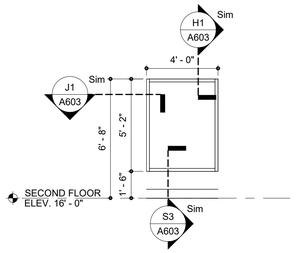
CW-1 ALUM. STOREFRONT 4.5" DEPTH, IG-1



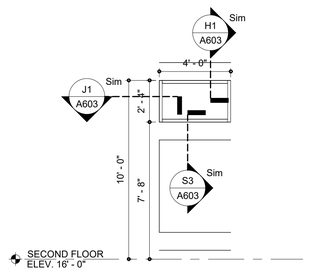
CW-2 ALUM. STOREFRONT 4.5" DEPTH, IG-1



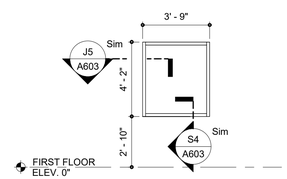
SF-1 ALUM. STOREFRONT 4.5" DEPTH, IG-1



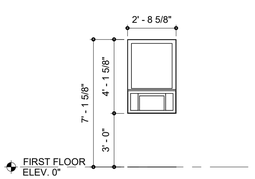
SF-2 ALUM. STOREFRONT 4.5" DEPTH, IG-1



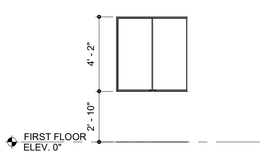
SF-3 ALUM. STOREFRONT 4.5" DEPTH, IG-1



SF-4 ALUM. STOREFRONT 4.5" DEPTH, IG-1



W-1



W-2

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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312 West Main St, Suite 300
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ISSUED: 05/10/2024

SHEET TITLE

WINDOW TYPES

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
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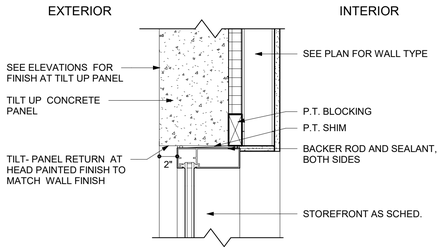
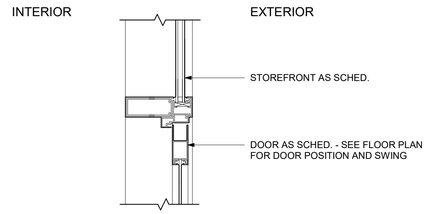


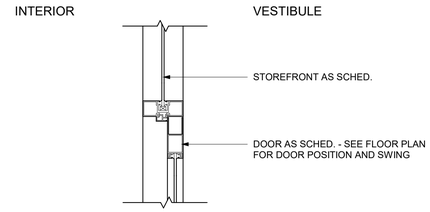
H1 EXTERIOR STOREFRONT AT TILT- UP - HEAD DETAIL

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



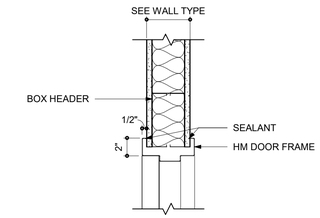
H2 EXTERIOR STOREFRONT DOOR AT CURTAIN WALL - HEAD DETAIL

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



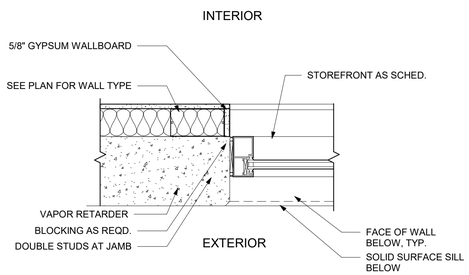
H3 INTERIOR STOREFRONT DOOR AT TRANSOM & TYPICAL MULLION - HEAD DETAIL

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



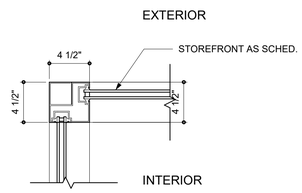
H4 INTERIOR DOOR HEAD DETAIL

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



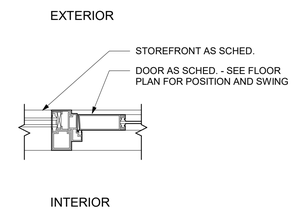
J1 STOREFRONT AT EIFS ON METAL STUD - JAMB DETAIL

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



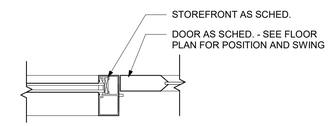
J2 STOREFRONT CORNER MULLION - JAMB DETAIL

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



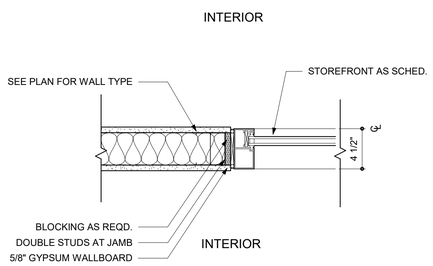
J3 EXTERIOR STOREFRONT DOOR AT SIDELITE AND TYPICAL MULLION - JAMB DETAIL

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



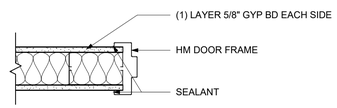
J4 INTERIOR STOREFRONT DOOR AT SIDELITE AND TYPICAL MULLION - JAMB DETAIL

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



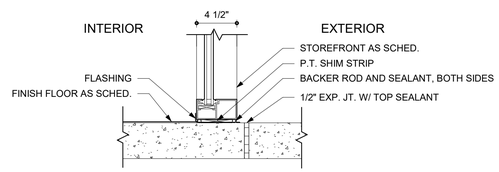
J5 STOREFRONT ON METAL STUD - INTERIOR JAMB DETAIL

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



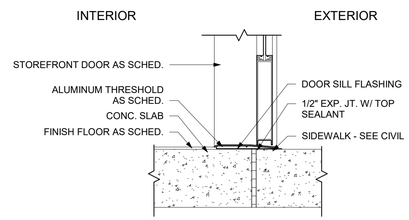
J6 INTERIOR DOOR JAMB DETAIL

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



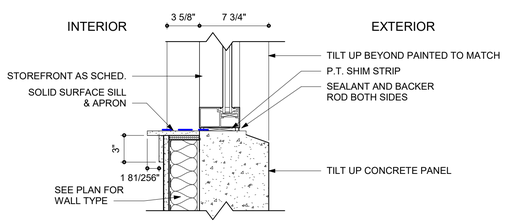
S1 EXTERIOR STOREFRONT AT FLOOR - SILL DETAIL

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



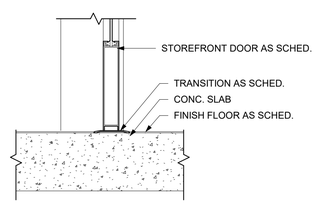
S2 EXTERIOR STOREFRONT DOOR - SILL DETAIL

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



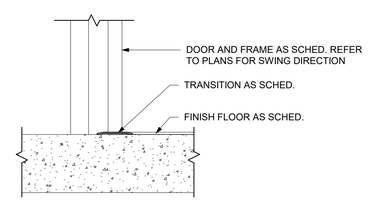
S3 EXTERIOR STOREFRONT AT EIFS ON METAL STUD - SILL DETAIL

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



S4 INTERIOR STOREFRONT DOOR - SILL DETAIL

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



S5 INTERIOR DOOR SILL DETAIL

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

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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SHEET TITLE

HEAD, SILL, AND JAMB DETAILS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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FINISH SCHEDULE

#	ROOM NAME	FLOOR MAT	BASE MAT	WALL NORTH MAT	WALL NORTH FIN	WALL EAST MAT	WALL EAST FIN	WALL SOUTH MAT	WALL SOUTH FIN	WALL WEST MAT	WALL WEST FIN	CEILING MAT	CEILING FIN	COMMENTS
FIRST FLOOR														
100	VEST	WOM-1	-	SF	-	SF	-	SF	-	SF	-	ACT	ACT-1	
101	LOBBY	LVT-1/2	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
101A	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
101B	CORR	LVT-1	RB-1	-	-	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
101C	CORR	LVT-1	RB-1	-	-	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
101D	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
101E	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
101F	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	-	-	ACT	ACT-1	
101G	CORR	LVT-1	RB-1	-	-	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
101H	CORR	LVT-1	RB-1	GWB	PT	-	-	GWB	PT	-	-	ACT	ACT-1	
101I	CORR	LVT-1	RB-1	GWB	PT	-	-	GWB	PT	-	-	ACT	ACT-1	
101J	CORR	LVT-1	RB-1	GWB	PT	-	-	GWB	PT	-	-	ACT	ACT-1	
102	SECURITY	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
104	TRIAGE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
105	PAC	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
106	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
107	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
108	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	-	ACT	ACT-1	
109	WOMENS TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
110	MENS TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
111	STORAGE / PACK. DELIVERY	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
112	VACUUM / SUCTION	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
113	MEDS	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
114	MED. ASST.	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
115	LAB	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
116	LAB	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
117	TOILET	PFT-1	CTB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	GWB	
118	PHARMACY	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
119	PHARM OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
120	IMMUN. CONF	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
121	WAITING	LVT-1/2	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
122	RECEPT	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
123	ULTRASOUND	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
124	NST	LVT-1	RB-1	-	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
125	VISION OFFICE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
126	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
127	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
128	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
129	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
130	BEHAV. HEALTH DIR.	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
131	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
132	ASST.	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
133	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
134	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
135	LACT.	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
136	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
137	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
138	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
139	VISION	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
140	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
141	VISION	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
142	BEHAV. HEALTH	CPT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
143	BEHAV. HEALTH	CPT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
144	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
145	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
146	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
147	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
148	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
149	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
150	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
151	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
152	BEHAV. HEALTH LIBRARY	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
153	STAIR	CONC-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	GWB	
154	STAFF TOILET	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
155	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
156	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
157	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
158	SOILED	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-2	
159	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
160	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
161	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
162	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
163	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
164	ELECT	CONC-1	-	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	-	EXPO	
165	RISER	CONC-1	-	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	-	EXPO	
166	WET MECH	CONC-1	-	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	EXPO	
167	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
168	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
169	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
170	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
171	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
172	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
173	NURSE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
174	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	PT-5	
175	CLEAN STORAGE	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-2	
176	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
177	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
178	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
179	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
180	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
181	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
182	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
183	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
184	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
185	IT	SDT-1	RB-3	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
186	MECH. STOR/JAN	CONC-1	-	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	ACT	ACT-1	
187	NURSE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
188	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	

FINISH SCHEDULE

#	ROOM NAME	FLOOR MAT	BASE MAT	WALL NORTH MAT	WALL NORTH FIN	WALL EAST MAT	WALL EAST FIN	WALL SOUTH MAT	WALL SOUTH FIN	WALL WEST MAT	WALL WEST FIN	CEILING MAT	CEILING FIN	COMMENTS
189	ELEC.	SDT-1	RB-3	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
190	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
191	STOR.	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
192	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
SECOND FLOOR														
200	ELEVATOR	LVT-1	-	FAC	-	FAC	-	FAC	-	FAC	-	FAC	-	
201A	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
201B	CORR	LVT-1	RB-1	GWB	PT	-	-	GWB	PT	-	-	ACT	ACT-1	
201C	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
201D	CORR	LVT-1	RB-1	GWB	PT	-	-	GWB	PT	-	-	ACT	ACT-1	
201E	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
201F	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
201G	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	-	-	ACT	ACT-1	
201H	CORR	LVT-1	RB-1	-	-	GWB	PT	-	-	GWB	PT	ACT	ACT-1	
201I	CORR	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
202	ELEV EQUIP	CONC-1	-	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	EXPO	
203	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
204	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
205	SICK	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
206	TRAINING	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
207	PAC	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
208	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
209	IT	SDT-1	RB-3	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
210	LACTATION	LVT-1	RB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	ACT	ACT-1	
211	RESIDENT	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
212	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
213	JAN	CONC-1	-	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	ACT	ACT-1	
214	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
215	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
216	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
217	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
218	PAC	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
219	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
220	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
221	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
222	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
223	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
224	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
225	STERILE	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
226	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
227	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
228	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
229	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
230	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
231	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
232	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
233	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
234	DENTAL	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
235	DENTAL LAB	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
236	MECH	CONC-1	-	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	ACT	ACT-1	
237	PAN	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
238	WORKROOM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
239	STOR	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
240	SOILED	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-2	
241	ELEC.	SDT-1	RB-3	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
242	BREAK	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
243	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
244	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
245	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
246	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
247	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
248	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
249	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
250	TOILET	PFT-1	CTB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	GWB	
251	STAIR	CONC-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	GWB	
252	CONF.	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
253	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
254	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
255	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
256	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
257	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
258	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
259	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
260	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
261	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
262	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
263	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
264	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
265	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
266	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
267	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
268	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
269	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
270	TOILET	PFT-1	CTB-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	HPC-1	GWB	GWB	
271	BEHAV. HEALTH	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
272	ED	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
273	ASST.	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
274	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
275	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
276	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
277	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
278	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
279	OFFICE	CPT-1	RB-2	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
280	PRECEPT	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
281	NURSE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
282	NURSE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
283	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
284	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
285	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
286	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
287	MED	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
288	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
289	LAB	SV-1	SVB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
290	NURSE	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
291	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
292	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
293	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
294	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
295	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	
296	EXAM	LVT-1	RB-1	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	ACT-1	

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. ARCHITECTURE ENGINEERING WILMINGTON, NC 518

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY. SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS.

ISSUED: 05/10/2024

SHEET TITLE

FINISH SCHEDULE

ISSUE BLOCK

Mark	Date	Description

PROJECT NO: 2023038.00

DATE: 07/12/2024

SCALE:

DRAWN BY: MNS PROJ MGR: BMR

A604

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FINISH SCHEDULE LEGEND

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR / FINISH	SIZE	COMMENTS
FLOOR						
-	NOT APPLICABLE / EXISTING TO REMAIN					
CONC	CONCRETE WITH SEALER/HARDENER					
CPT-1	CARPET	MANNIINGTON				
LVT-1	LUXURY VINYL TILE	MANNIINGTON				
PFT-1	PORCELAIN FLOOR TILE	CROSSVILLE TILE				
RUB	RUBBER STAIR TREAD W/ INTEGRAL RISER	TARKETT				
SDT-1	STATIC DISSAPATIVE TILE	ROPPE				
SV-1	SHEET VINYL	MANNINGTON				
WOM-1	WALK-OFF MAT	MANNINGTON				
BASE						
-	NOT APPLICABLE / EXISTING TO REMAIN					
CTB-1	CERAMIC TILE BASE	CROSSVILLE TILE				
RB-1	RESILIENT WALL BASE	TARKETT			4"	TYPICAL
RB-2	RESILIENT WALL BASE	TARKETT			4"	ACCENT
RB-3	RESILIENT WALL BASE	TARKETT			4"	ACCENT
SVB-1	INTEGRAL VINYL SHEET FLOORING BASE	MANNINGTON			6"	
WALL						
-	NOT APPLICABLE / EXISTING TO REMAIN					
CG-1	CORNER GUARDS	INPRO				
EG-1	END WALL GUARDS	INPRO				
GWB	GYPSUM WALL BOARD					
HPC-1	HIGH-PERFORMANCE COATING	SHERWIN WILLIAMS				
PT-1	PAINT	SHERWIN WILLIAMS		EGGSHELL		FIELD
PT-2	PAINT	SHERWIN WILLIAMS		EGGSHELL		EXAM ROOM ACCENT
PT-3	PAINT	SHERWIN WILLIAMS		EGGSHELL		ACCENT
PT-6	PAINT	SHERWIN WILLIAMS		SEMIGLOSS		DOOR TRIM
WP-1	WALL PROTECTION	INPRO				
CEILING						
-	NOT APPLICABLE / EXISTING TO REMAIN					
ACT-1	2x2 ACOUSTICAL CEILING TILE	ARMSTRONG CEILINGS	ULTIMA HEALTH ZONE			TYPICAL
ACT-2	2x4 SCRUBBABLE ACOUSTICAL CEILING TILE	ARMSTRONG CEILINGS	ULTIMA HEALTH ZONE AIRASSURE			CLEAN ROOM
EXPO	EXPOSED STRUCTURE, FIRE PROTECTOIN, PLUMBING, MECHANICAL, ELECTRICAL, TECHNOLOGY					
GWB	GYPSUM BOARD CEILING					
PT-4	PAINT	SHERWIN WILLIAMS		FLAT		TYPICAL
PT-5	PAINT	SHERWIN WILLIAMS		EGGSHELL		BULKHEADS
MILLWORK, CASEWORK, DOORS, MISC. FINISHES						
PC-1	PRIVACY CURTAIN	INPRO				
PL-1	PLASTIC LAMINATE	WILSONART				VERTICLES
PL-2	PLASTIC LAMINATE	WILSONART				COUNTERTOPS
SCWD	SOLID CORE WOOD DOOR					TYPICAL
SS-1	SOLID SURFACING	WILSONART				COUNTERTOPS
SS-2	SOLID SURFACING	WILSONART				ACCENT
SS-3	SOLID SURFACING	WILSONART				WINDOW SILLS
WS-1	WINDOW SHADES	WT SHADES				

GENERAL FINISH PLAN NOTES

1. REFER TO SHEETS A113 & A114 FOR FINISH PLANS AND SHEET A604 FOR ROOM SCHEDULE.
2. REVIEW ALL FIELD CONDITIONS AND PLANNED WORK. ALL DISCREPANCIES IN A MANNER APPROVED BY THE ARCHITECT THAT COULD AFFECT THE FINISHED OR TRANSITIONS PRIOR TO PROCEEDING WITH WORK AFFECTED BY DISCREPANCIES.
3. ALL FINISHES SHALL BE TYPE 1 / CLASS A FLAME AND SMOKE SPREAD, REFER TO FINISH AND MATERIAL SCHEDULES.
4. SEE G101 CODE SHEET FOR INTERIOR REQUIREMENTS.
5. REFER TO ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS FOR ADDITIONAL INFORMATION REGARDING FINISHES, PATTERNS, ORIENTATIONS AND TRANSITIONS.
6. PREPARE SURFACES PER FINISH MANUFACTURER'S INSTRUCTIONS PRIOR TO APPLICATIONS OF FINISHES, CONFIRM SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OR IRREGULARITIES.
7. PREPARE SLAB TO RECEIVE NEW FINISHES, INCLUDING STRUCTURALLY BONDED HYDRAULIC CEMENT UNDERLAY AND FLASH PATCHING REQUIRED TO LEVEL AND SMOOTH FLOOR TO 1/8" IN 20'-0" NON-CUMULATIVE, UNLESS OTHERWISE INDICATED AS IRREGULARITIES AND SHALL EXHIBIT NEUTRALLY RELATIVE TO ACIDITY AND ALKALINITY. REMOVE GREASE, DIRT CURING COMPOUNDS AND OTHER MATERIALS THAT WILL IMPAIR THE PERFORMANCE AND/OR ADHESION OF THE SCHEDULED FLOORING.
8. LOCATE FLOOR FINISH TRANSITIONS AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
9. LAY RESILIENT FLOORING DIRECTIONAL PATTERNS OR GRAINS AS NOTED, OR IF NOT NOTED AS DIRECTED BY THE ARCHITECT.
10. PROVIDE COMPLETE EXTRUDED REVEALS IN ALL REVEAL LOCATIONS. FINISH TO MATCH ADJACENT SURFACE FINISH, UNLESS OTHERWISE NOTED.
11. SEE SPECIFICATIONS FOR APPROPRIATE PAINT SHEENS.
12. USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND APPLY FINAL FINISH COAT AS RECOMMENDED BY MANUFACTURER TO MATCH SPECIFIED FINISH.
13. SPRAY-APPLY PAINT TO METAL SURFACES UNLESS OTHERWISE NOTED OR APPROVED BY ARCHITECT.
14. PAINT AND FINISH EXPOSED SURFACES UNLESS OTHERWISE NOTED. PAINT SURFACES BEHIND REMOVABLE EQUIPMENT / FURNITURE. PAINT BEHIND NON-REMOVABLE ITEMS WITH PRIME COAT ONLY.
15. PRIME ALL MATERIAL PRIOR TO PAINTING.
16. GRILLES, PLATES, DIFFUSERS, AND OTHER ITEMS OCCURRING IN WALLS OR CEILINGS SHALL BE FACTORY FINISHED IN PAINT OF COLOR OR SHEEN TO MATCH SURFACES ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
17. SEALANT TO BE APPLIED BETWEEN BASE OF ALL DOOR FRAMES AND RESILIENT OR TILE FLOORING. SEALANT TO MATCH COLOR OF DOOR FRAMES.
18. CLEANING AND PROTECTION
    - A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CLEANING AND PROTECTION OF FLOOR COVERINGS.
    - B. IMMEDIATELY AFTER COMPLETING FLOOR COVERINGS INSTALLATION:
        1. REMOVE ADHESIVE AND OTHER BLEMISHES FROM FLOOR COVERING SURFACES.
        2. SWEEP AND VACUUM FLOOR COVERINGS THOROUGHLY.
        3. DAMP – MOP FLOOR COVERINGS TO REMOVE MARKS AND SOIL.
    - C. PROTECT FLOOR COVERINGS FROM DAMAGE DURING REMAINDER OF CONSTRUCTION.
        1. 1/8" MASONITE SMOOTH BOARD AT HEAVY TRAFFIC AREAS.
        2. 5 MM CORREX TWIN-WALL TAPED JOINTS POLYPROPYLENE SHEET, FINE FLUTE.
19. EXTEND FLOORING INTO ALL TOE KICKS, KNEE SPACES AND EXPOSED AREAS UNDER EXISTING CASEWORK. FLOORING AS SCHEDULED SHALL BE INSTALLED UNDER ALL NEW CASEWORK.
20. MOLD AND MOISTURE RESISTANT GYPSUM BOARD SHALL BE USED AT ALL TOILET ROOMS, AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSUM BOARD FINISHES. THIS INCLUDES UNDER ALL NEW CASEWORK AND APPLIANCES.
21. SEE REFLECTED CEILING PLAN & NOTES FOR CEILING HEIGHTS, MATERIAL EXTENTS, LOCATIONS, & HEIGHTS OF BULKHEADS, SOFFITS, ETC.
22. PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISH. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
23. PROVIDE SEALANT / CAULK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURER'S GUIDELINES.
24. WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAMS ENCLOSURES, RECESSES, BULKHEADS MATERIAL CHANGES, OR OTHER ENCLOSURES. REFER TO REFLECTED CEILING PLANS.
25. WALLS MAY CONTAIN MORE THAN ONE MATERIAL OR FINISH. REFER TO CONSTRUCTION TYPES, FLOOR PLANS, SECTIONS, DETAILS, AND INTERIOR ELEVATIONS.
26. ORIENTATION - ON PLANS NORTH WALL IS UP, EAST IS RIGHT, SOUTH IS DOWN, WEST IS LEFT.
27. FINISHES CALLED OUT IN TAG ARE FIELD FINISHES. SEE FINISH PLAN(S), ELEVATIONS, RCP(S) & ROOM SCHEDULE FOR EXTENTS OF ACCENTS.

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. ARCHITECTURE ENGINEERING WILMINGTON, NC 518

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS

ISSUED: 05/10/2024

SHEET TITLE

FINISH SCHEDULE LEGEND

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1" = 1'-0"
DRAWN BY: MAD	PROJ MGR: BMR

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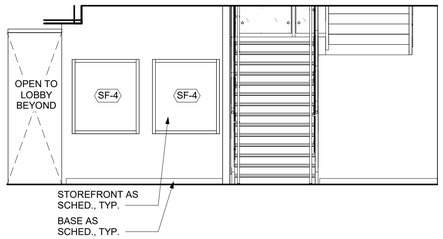

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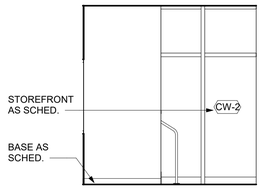

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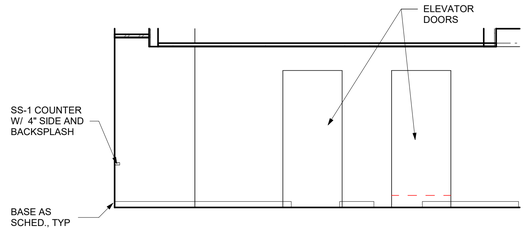

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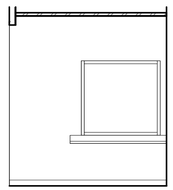

4 SECURITY GUARD 102 ELEVATION
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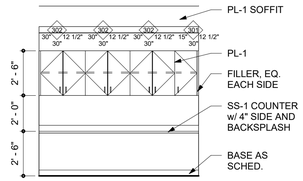

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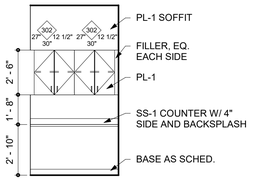

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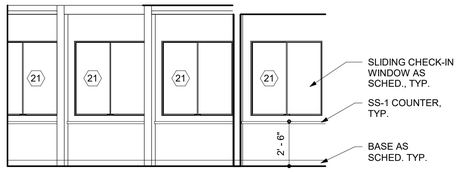

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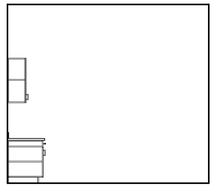

8 MEDS 113 SOUTH ELEVATION
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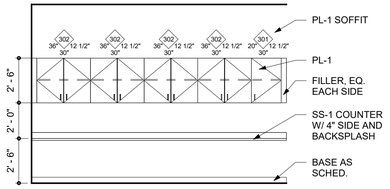

9 ATYPICAL MEDICAL ASSISTANT 114 WEST ELEVATION - 1 TYP. FOR (2)
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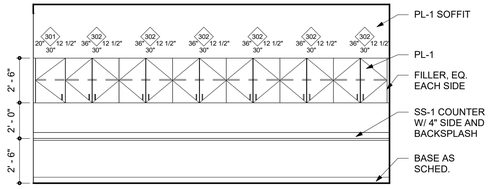

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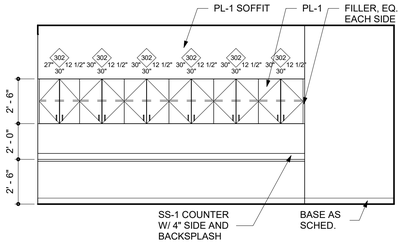

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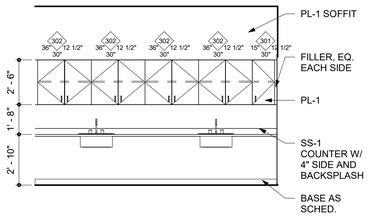

12 LAB 115 NORTH ELEVATION
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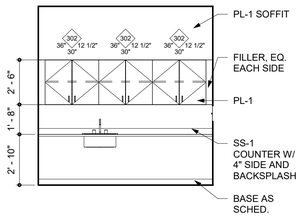

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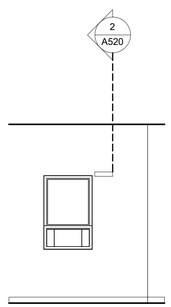

14 PHARMACY 118 NORTHEAST ELEVATION
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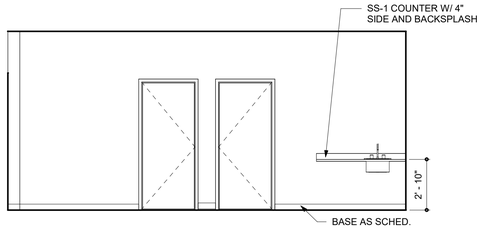

15 PHARMACY 118 SOUTH ELEVATION
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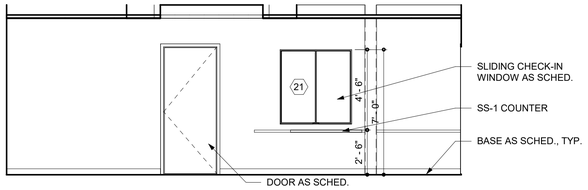

16 WAITING ROOM 121 SOUTH ELEVATION
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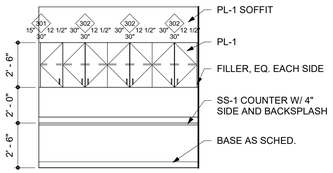

17 TYPICAL NURSE 173 EAST ELEVATION
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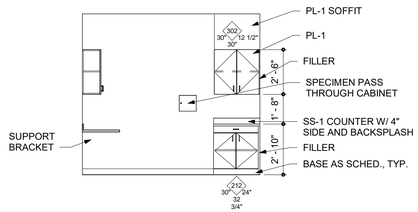

18 TYPICAL NURSE 173 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

MedNorth HEALTH CENTER

NOT FOR CONSTRUCTION

BECKER MORGAN GROUP, INC. WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER
925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

INTERIOR ELEVATIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	07/12/2024
SCALE:	1/4" = 1'-0"
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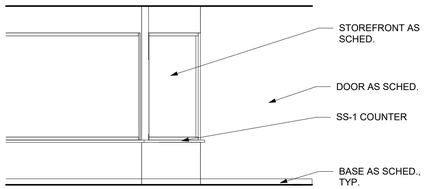

1 LOBBY 201 CHECK IN SOUTHWEST ELEVATION
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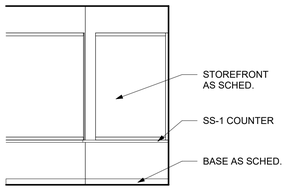

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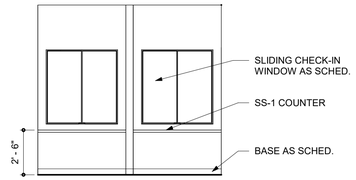

3 CORR 201B PAC CHECK-OUT
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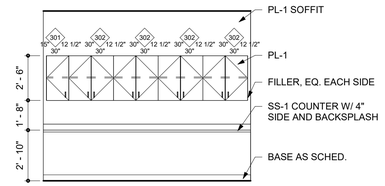

4 CORRIDOR 201E WEST ELEVATION
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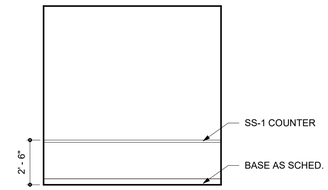

5 PAC 218 SOUTH ELEVATION
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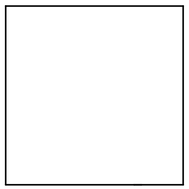

6 STERILE AREA 225 EAST ELEVATION
SCALE: 1/4" = 1'-0"

7 STERILE AREA 225 SOUTH ELEVATION
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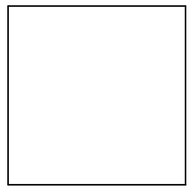

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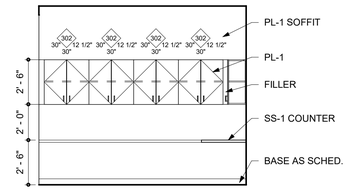

9 WORKROOM 238 EAST ELEVATION
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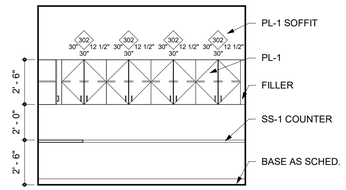

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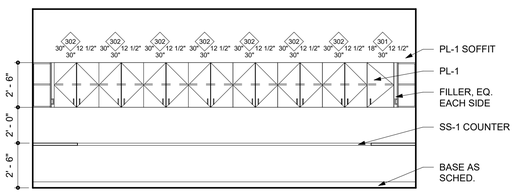

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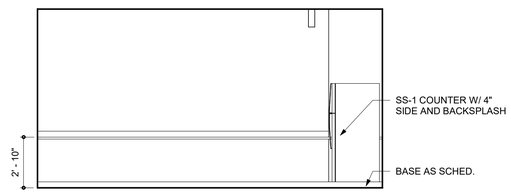

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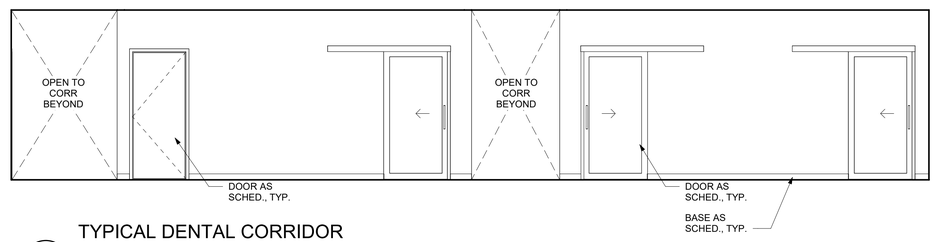

13 TYPICAL DENTAL CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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North Carolina
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Wilmington, NC 28403
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INTERIOR ELEVATIONS

ISSUE BLOCK

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0' 4' 8' 16'

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

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ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

MedNorth HEALTH CENTER

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BECKER MORGAN GROUP, INC. WILMINGTON, NC

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

INTERIOR ELEVATIONS

ISSUE BLOCK

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1 FIRST FLOOR DEPARTMENT LAYOUT PLAN

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

FIRST FLOOR AREA

- COMMON AREAS / PRIMARY CIRCULATION 6,870 SF
- MECHANICAL, IT, DATA, STORAGE 992 SF
- PAC 632 SF
- PHARMACY 1,091 SF
- BEHAVIORAL HEALTH 1,451 SF
- OFFICE, CONFERENCE 857 SF
- LAB, STERILE AREA 174 SF
- EXAM PODS/TRIAGE/SICK 2,738 SF
- NURSING AND MEDICAL ASSISTANT 1,138 SF
- VISION 393 SF
- DENTAL 0 SF
- WORKROOM/TRAINING 0 SF

N

0' 4' 8' 16'

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

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

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DEPARTMENT LAYOUT - FIRST FLOOR PLAN

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1 SECOND FLOOR DEPARTMENT LAYOUT PLAN

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

SECOND FLOOR AREA

- COMMON AREAS / PRIMARY CIRCULATION 7,065 SF
- MECHANICAL, IT, DATA, STORAGE 528 SF
- PAC 555 SF
- PHARMACY 0 SF
- BEHAVIORAL HEALTH 577 SF
- OFFICE, CONFERENCE 1,295 SF
- LAB, STERILE AREA 89 SF
- EXAM PODS/TRIAGE/SICK 2,812 SF
- NURSING AND MEDICAL ASSISTANT 648 SF
- VISION 0 SF
- DENTAL 1,930 SF
- WORKROOM/TRAINING 874 SF

N

0' 4' 8' 16'

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

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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DEPARTMENT LAYOUT - SECOND FLOOR PLAN

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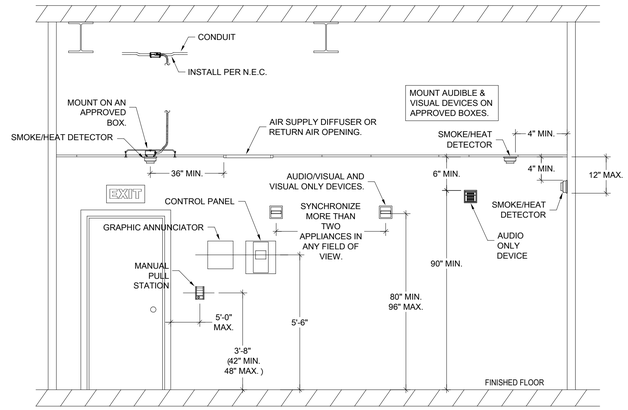
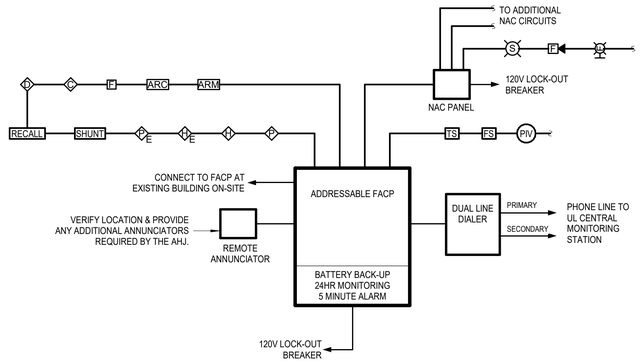
FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
H	FIRE ALARM HORN TYPE SPEAKER	NOTE 5
H	FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5
F	FIRE ALARM HORN	NOTE 5
F	COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT	NOTE 5
S F	S - CEILING SPEAKER, F - FIRE ALARM SPEAKER	
S	FIRE ALARM SPEAKER W/ STROBE	
S	HORN TYPE SPEAKER	
H	MAGNETIC DOOR HOLDER	
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD
RAR	RESCUE ASSISTANCE REMOTE STATION	48" TOD
TP	FIRE ALARM TRANSPONDER	
DS ES	DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT	
F	FIRE ALARM PULL STATION	48" TOD
H E	HEAT DETECTOR: E = ELEVATOR CONTROLS	
P AB P E	SMOKE DETECTOR (PHOTOELECTRIC): AB = AUDIBLE BASE, E = ELEVATOR CONTROLS	
H	SMOKE DETECTOR (IONIZATION)	
D	FIRE ALARM DUCT DETECTOR WITH RELAY	
C	CARBON MONOXIDE DETECTOR	
FSD	FIRE SMOKE DAMPER	
SD	SMOKE DAMPER	
ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL	
ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR	
RAL	FIRE ALARM SYSTEM REMOTE ALARM LIGHT	
FS	FLOW SWITCH CONNECTION	
TS	TAMPER SWITCH CONNECTION	
TRASMITTER LBT LIGHT BEAM / RECEIVER LBR	FIRE ALARM LINEAR BEAM SMOKE DETECTOR: TRANSMITTER (LBT) AND RECEIVER (LBR)	
F	FIRE FIGHTER'S TELEPHONE JACK	48" TOD
M	MONITOR SYSTEM JUNCTION BOX	36" CTR



1 **TYPICAL MOUNTING HEIGHT DETAIL**

SCALE: N.T.S.



2 **FA RISER DETAIL**

SCALE: N.T.S.

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910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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FIRE ALARM RISER AND DETAILS

ISSUE BLOCK

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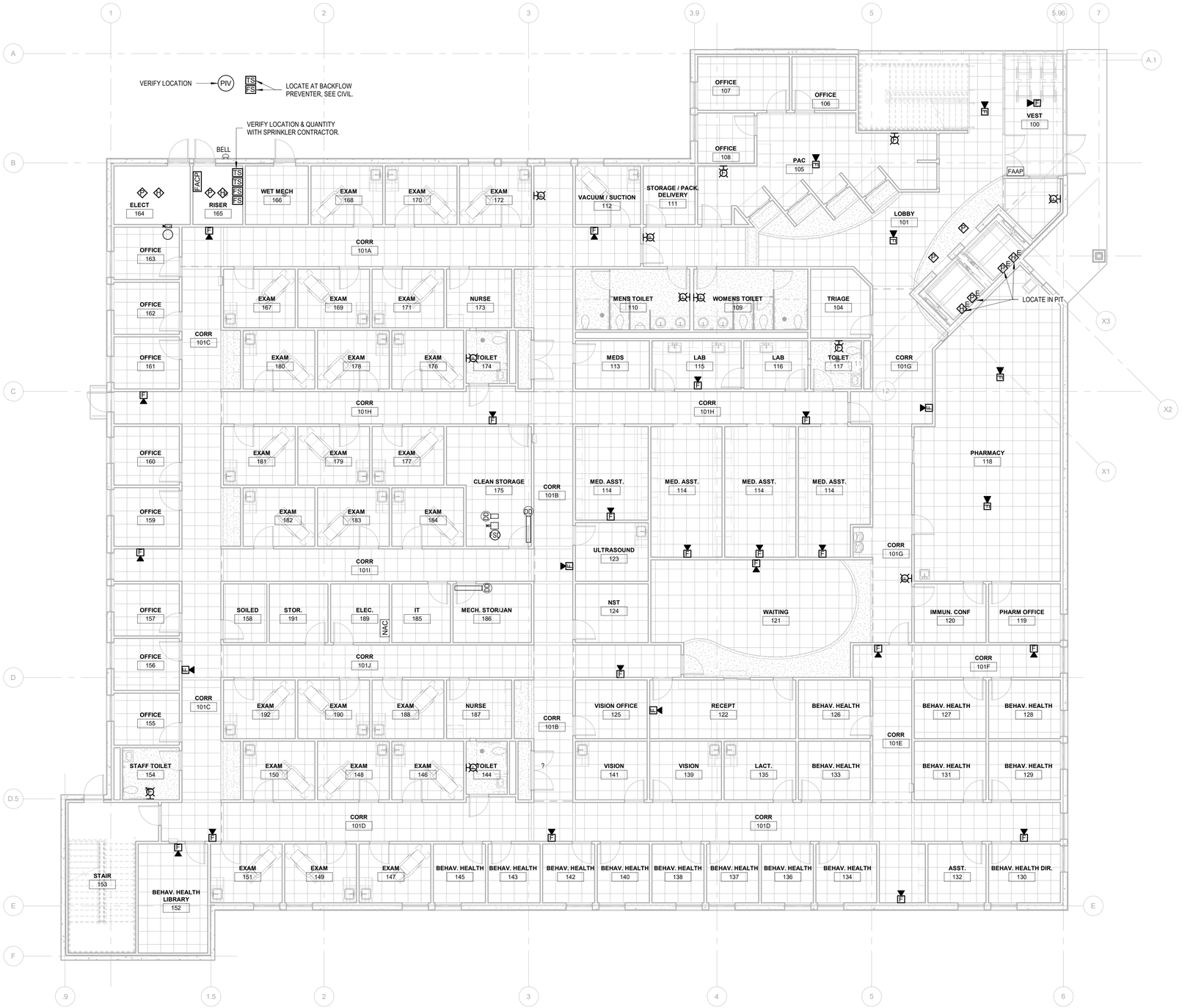

1 **FIRE ALARM PLAN - FIRST FLOOR**

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

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ENGINEERING

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Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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FIRE ALARM PLAN - FIRST FLOOR

ISSUE BLOCK

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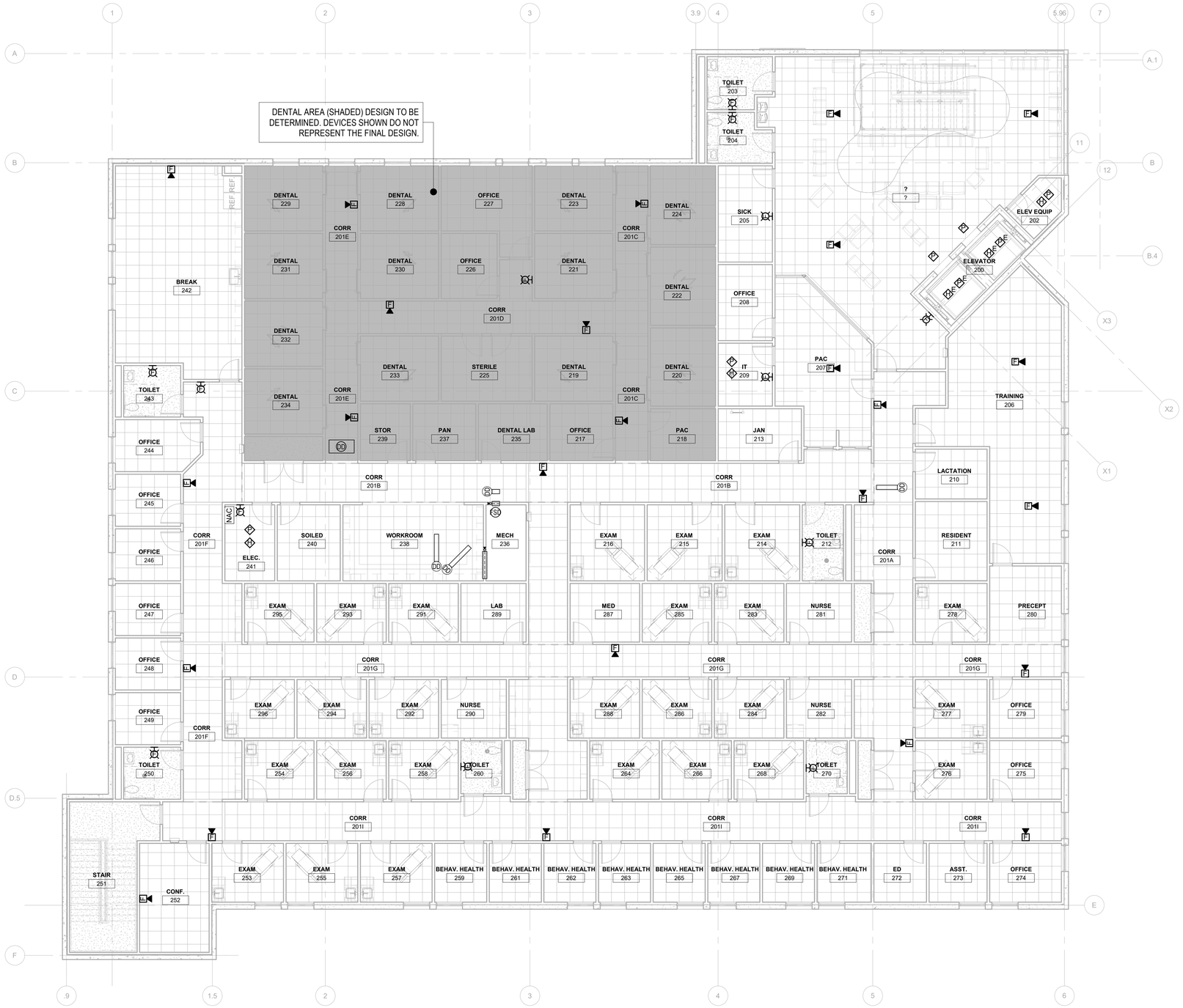

1 **FIRE ALARM PLAN - SECOND FLOOR**
SCALE: 1/8" = 1'-0"

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ENGINEERING

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Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
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Salisbury, MD 21801
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302.369.3700

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28403

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FIRE ALARM PLAN - SECOND FLOOR

ISSUE BLOCK

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PLUMBING SYMBOLS

RISER DESIGNATIONS

SYMBOL	DESCRIPTION
DI	DEIONIZED WATER RISER DESIGNATION RISER NUMBER
IW	INDUSTRIAL / LABORATORY WATER RISER DESIGNATION RISER NUMBER
LW	LABORATORY WATER RISER DESIGNATION RISER NUMBER
RO	REVERSE OSMOSIS WATER RISER DESIGNATION RISER NUMBER
S	SANITARY RISER DESIGNATION (S, V) RISER NUMBER
SW	STORM WATER RISER DESIGNATION RISER NUMBER
W	DOMESTIC WATER RISER DESIGNATION (CW, HW, HWR) RISER NUMBER

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
AD-X	AREA DRAIN DESIGNATION
BP-X	BOOSTER PUMP DESIGNATION
ET-X	EXPANSION TANK DESIGNATION
FD-X	FLOOR DRAIN DESIGNATION
FS-X	FLOOR SINK DESIGNATION
OI-X	OIL INTERCEPTOR DESIGNATION
OD-X	OVERFLOW DRAIN DESIGNATION
P-X	PLUMBING FIXTURE DESIGNATION
RD-X	ROOF DRAIN DESIGNATION
RP-X	RECIRCULATING PUMP DESIGNATION
SE-X	SEWAGE EJECTOR DESIGNATION
SP-X	SUMP PUMP DESIGNATION
WM-X	WATER METER DESIGNATION
WH-X	WATER HEATER DESIGNATION
LSK X	LABORATORY SINK DESIGNATION (SEE LAB FURNISHING PLAN)
RSS	RECESSED SAFETY STATION (SEE LAB FURNISHING PLAN)
EW-X	EYE WASH (SEE LAB FURNISHING PLAN)

RISER DIAGRAM COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER
	EMERGENCY EYE WASH STATION
	EMERGENCY SHOWER
	SHOCK ARRESTER
	VACUUM BREAKER
	VENT THROUGH ROOF
	TRAP ARM
	URINAL / WATER CLOSET (WALL MOUNTED)
	URINAL / WATER CLOSET (FLOOR MOUNTED)
	FLOOR / ROOF DRAIN
CO	CLEAN OUT (WALL / PIPE)
CO	CLEAN OUT (FLOOR)

COMPONENTS AND SPECIATIES

SYMBOL	DESCRIPTION
	BACKWATER VALVE
	BACKFLOW PREVENTER (DUAL CHECK TYPE)
	BACKFLOW PREVENTER (REDUCED PRESSURE TYPE)
CO	CLEAN OUT (WALL / PIPE)
CO	CLEAN OUT (FLOOR)
HB	COLD WATER INTERIOR HOSE BIB
WH	EXTERIOR WALL HYDRANT (FREEZE PROOF)
HED	HOSE END DRAIN VALVE
	AREA DRAIN
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP PRIMING LINE
	FLOOR SINK
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
RO/DI	RO / DI WATER OUTLET
EW	EMERGENCY EYEWASH (HANDHELD)
	SHOCK ARRESTER WITH ACCESS DOOR
	TEMPERING VALVE
M	WATER METER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DW	DISTILLED WATER
	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
D	DRAIN WATER, MISCELLANEOUS DRAINAGE
LA	LABORATORY COMPRESSED AIR
LV	LABORATORY VACUUM
LV	LABORATORY VENT
LW	LABORATORY WASTE
NG	NATURAL GAS
OD	OVERFLOW DRAIN
PD	PUMP DISCHARGE
RV	RELIEF VENT
ROR	REVERSE OSMOSIS RETURN
ROS	REVERSE OSMOSIS SUPPLY
	SANITARY
SD	STORM DRAIN
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
	VENT
	DISCONNECT
	CONNECT
AW	ACID WASTE
AV	ACID VENT

PLUMBING ABBREVIATIONS

A	COMPRESSED AIR
ABD	ABANDONDED
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	CONTROL AIR
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEANOUT
CW	COLD WATER, DOMESTIC CITY WATER
DIA	DIAMETER
DW	DISTILLED WATER
EA	EXHAUST AIR
ED	EQUIPMENT DRAIN
EJ	EXPANSION JOINT
F	FIRE LINE
F&T	FLOAT AND THERMOSTATIC
FD	FORCED DRAFT
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
°F	DEGREES FAHRENHEIT
G	NATURAL GAS
GAL	GALLON. GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HEATING WATER RETURN
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HS	HEATING WATER SUPPLY
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IA	INSTRUMENT AIR
KW	KILOWATTS
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAV	MANUAL AIR VENT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
OD	OVERFLOW DRAIN
PC	PUMPED CONDENSATE
PPH	POUNDS PER HOUR
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR, RELIEF AIR
RDR	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VENT
RX	REMOVE EXISTING
SA	SUPPLY AIR
SAN	SANITARY
SS	STAINLESS STEEL
STDR	STORM DRAIN
TYP	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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Dover, DE 19904
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302.369.3700

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CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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PLUMBING LEGENDS AND ABBREVIATIONS

ISSUE BLOCK

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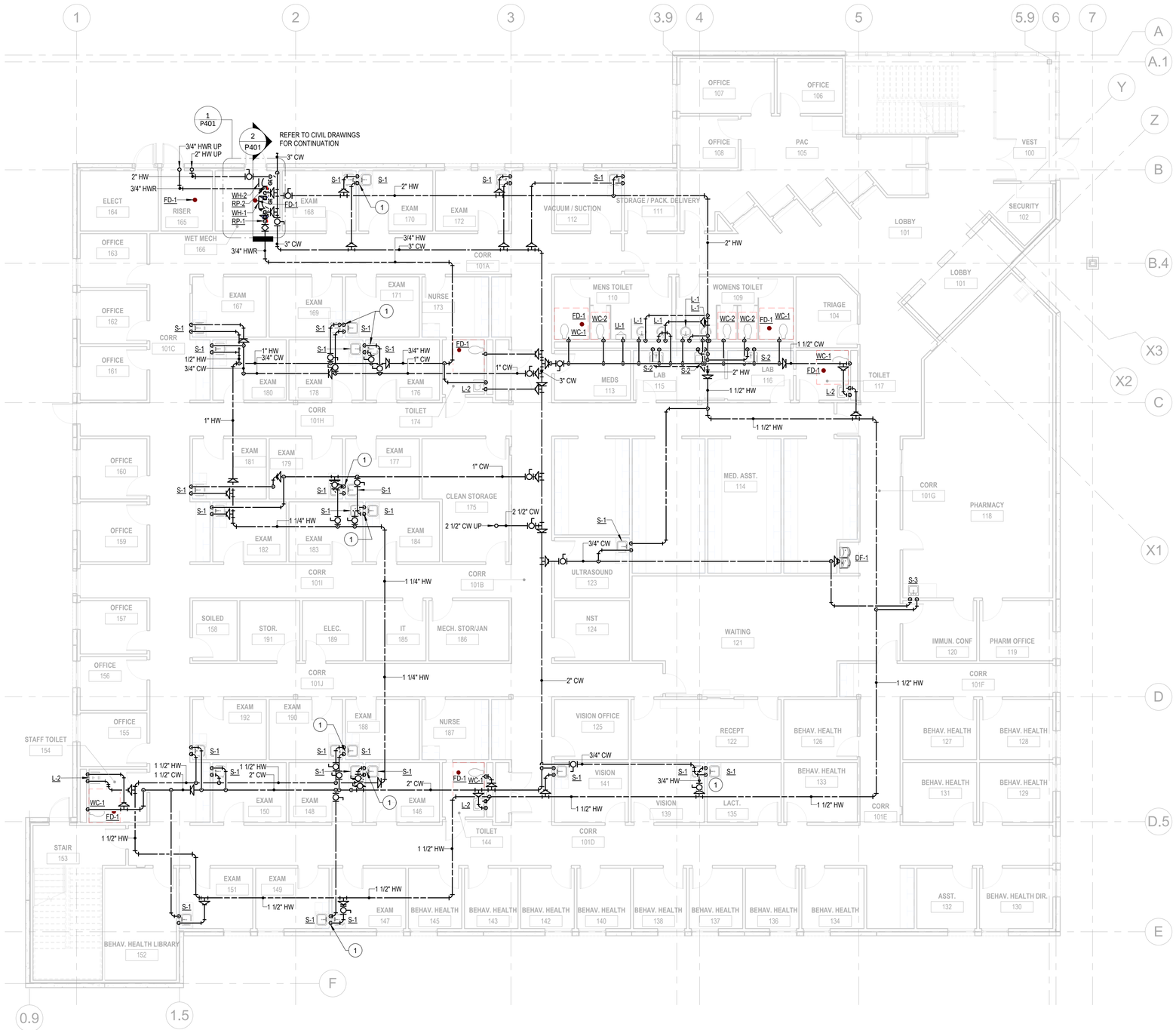

1 **FIRST FLOOR - DOMESTIC PIPING PLAN**
P111 SCALE: 1/8" = 1'-0"

KEYED NOTES

1. PIPE DROPS TO SERVE BACK-TO-BACK FIXTURES

RATED WALL/PARTITION LEGEND						
	ASSEMBLY RATING, IN HOURS)					
TYPE OF WALL/PARTITION	0	1/2	1	2	3	4
EXTERIOR WALL			■	■	■	
FIRE WALL/PARTY WALL				▓	▓	▓
FIRE BARRIER			▒	▒	▒	▒
FIRE PARTITION		▒	▒			
SMOKE BARRIER			▒			
SMOKE PARTITION	▒					
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
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Salisbury, MD 21801
410.546.9100

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Dover, DE 19904
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DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
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28403
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PLUMBING DOMESTIC PLAN LEVEL 1

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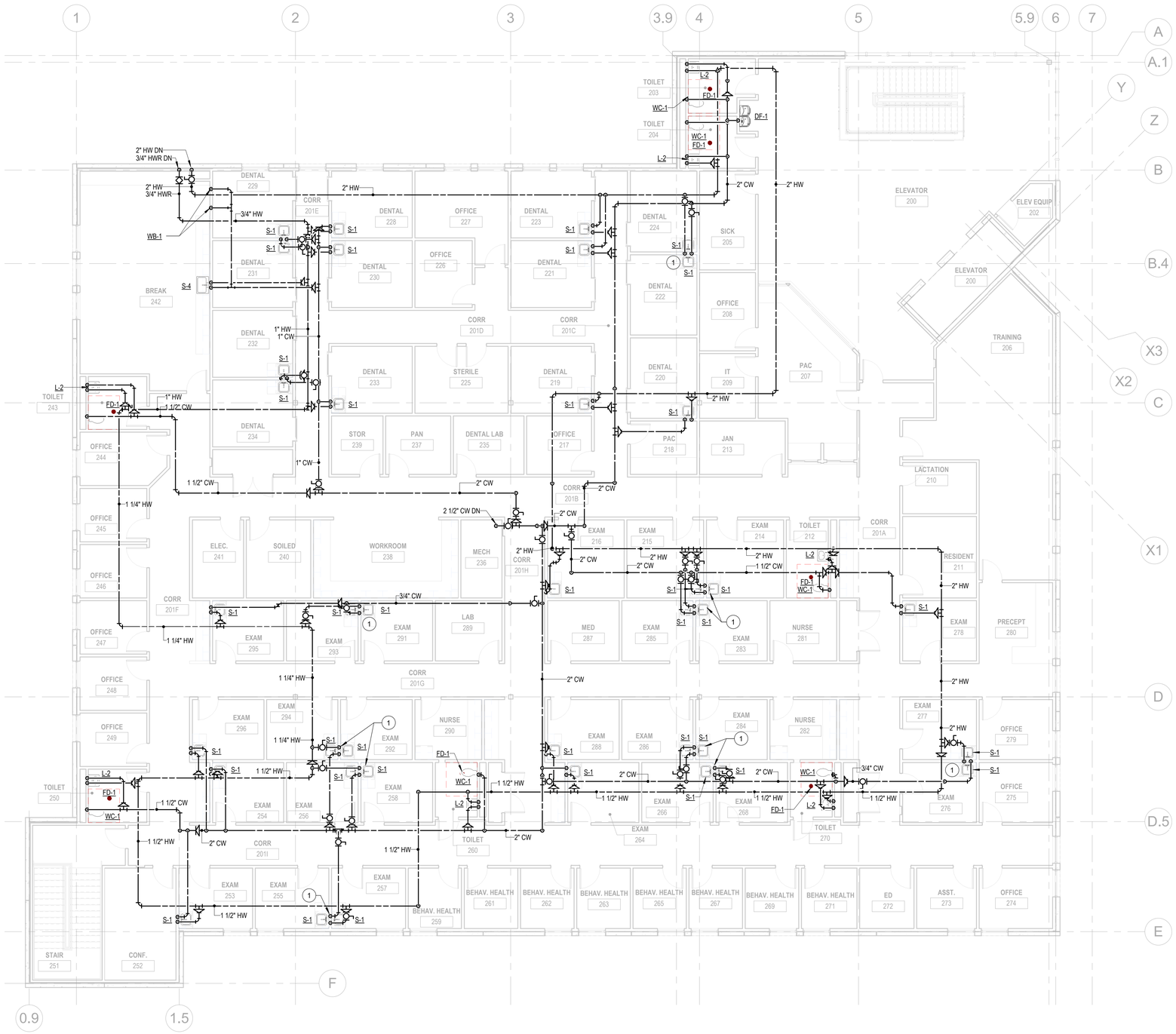

1 **SECOND FLOOR - DOMESTIC PIPING PLAN**
P112 SCALE: 1/8" = 1'-0"

KEYED NOTES

1. PIPE DROPS TO SERVE BACK-TO-BACK FIXTURES

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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ARCHITECTURE ENGINEERING

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Maryland
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410.546.9100

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309 S Governors Ave
Dover, DE 19904
302.734.7950

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Newark, DE 19713
302.369.3700

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CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403
910.791.8016
WWW.DSAENG.COM

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SHEET TITLE
PLUMBING DOMESTIC PLAN LEVEL 2

ISSUE BLOCK

Mark	Date	Description

PROJECT NO: 2023038.00
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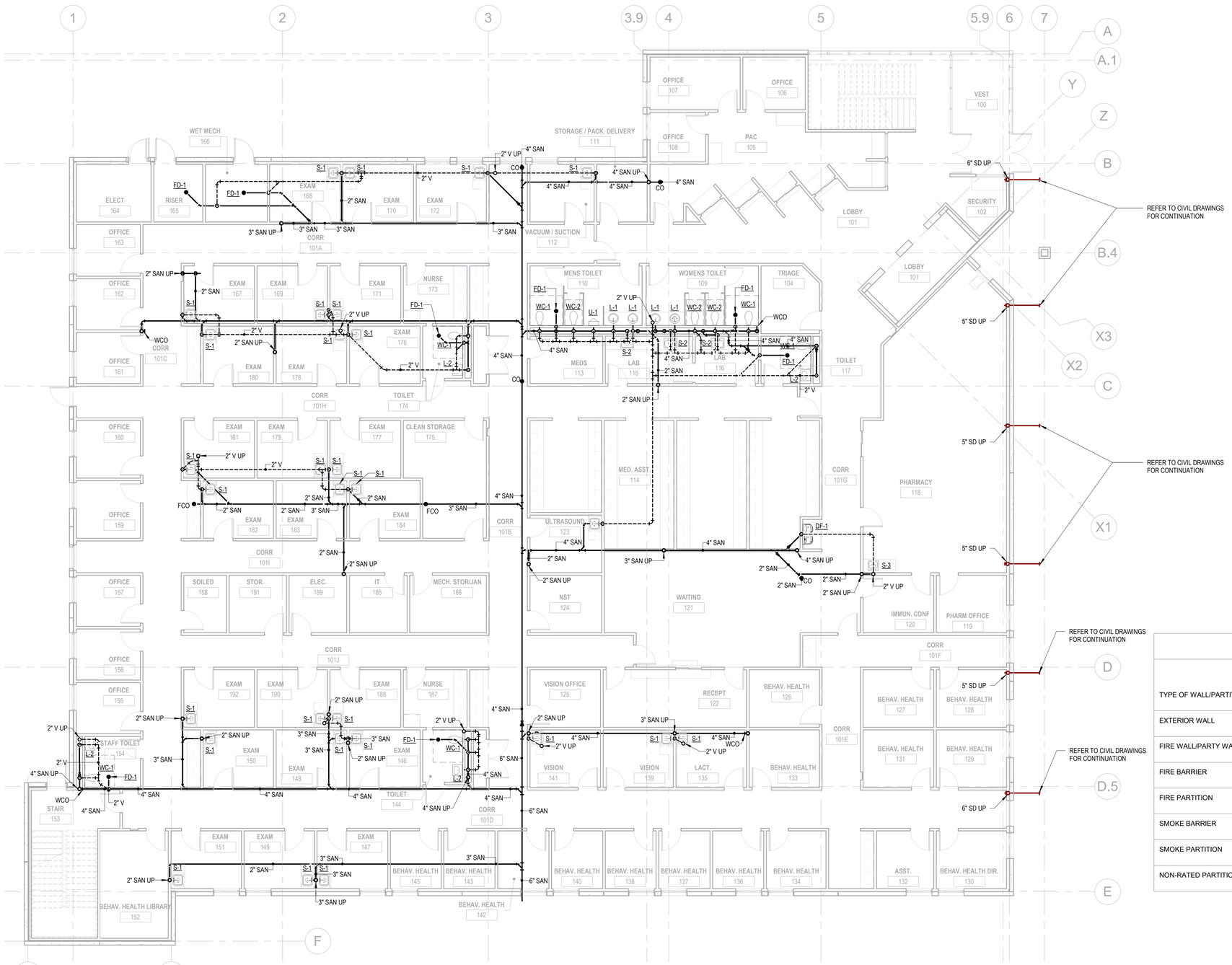

1 **FIRST FLOOR - SANITARY & VENT PLAN**
P211 SCALE: 1/8" = 1'-0"

RATED WALL/PARTITION LEGEND						
	ASSEMBLY RATING, IN HOURS)					
TYPE OF WALL/PARTITION	0	1/2	1	2	3	4
EXTERIOR WALL			■	■	■	
FIRE WALL/PARTY WALL				■	■	■
FIRE BARRIER			■	■	■	■
FIRE PARTITION		■	■			
SMOKE BARRIER			■			
SMOKE PARTITION	■					
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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Wilmington, NC 28403
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Salisbury, MD 21801
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SHEET TITLE
PLUMBING SANITARY & VENT PLAN LEVEL 1

ISSUE BLOCK

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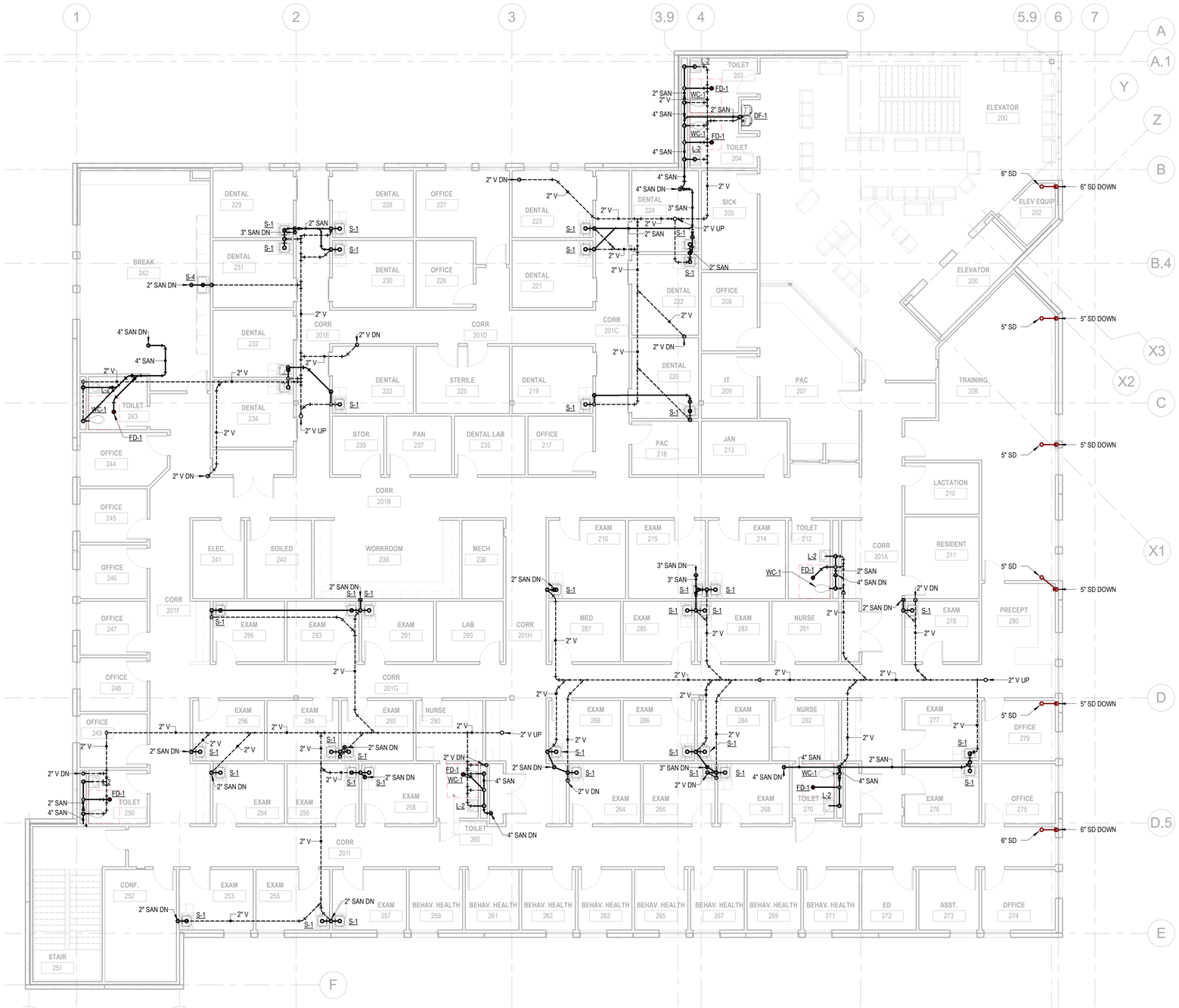

1 **SECOND FLOOR - SANITARY & VENT PLAN**

P212 SCALE: 1/8" = 1'-0"

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

GRAPHIC SCALE

8 4 0 8 16

SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

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Salisbury, MD 21801
410.546.9100

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PLUMBING SANITARY & VENT PLAN LEVEL 2

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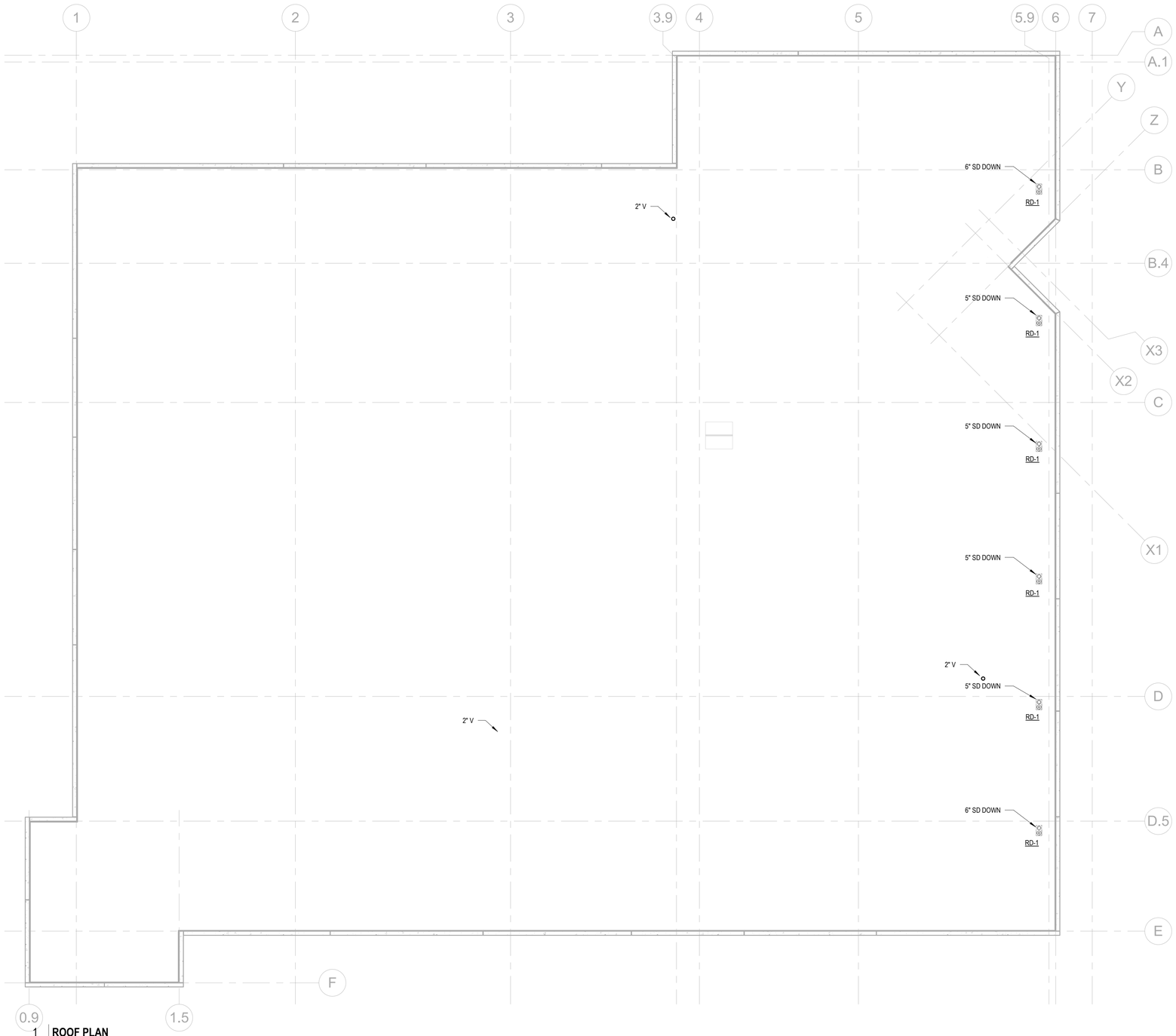

1 **ROOF PLAN**
P213 SCALE: 1/8" = 1'-0"

RATED WALL/PARTITION LEGEND						
	ASSEMBLY RATING, IN HOURS)					
TYPE OF WALL/PARTITION	0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

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615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

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PLUMBING SANITARY & VENT PLAN ROOF

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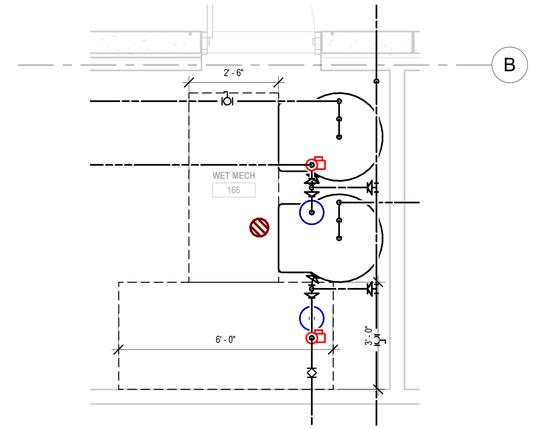
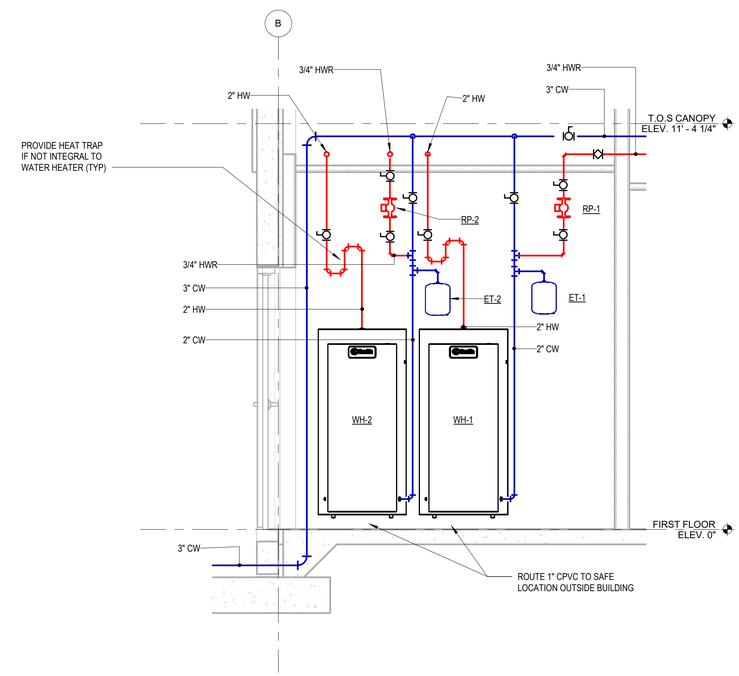


1 **ENLARGED RISER ROOM - PLUMBING**
P401 SCALE: 1/2" = 1'-0"



2 **DOMESTIC WATER ENTRY RISER**
P401 SCALE: 1/2" = 1'-0"

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980.270.9100

Maryland
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Salisbury, MD 21801
410.546.9100

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Newark, DE 19713
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STE. 100
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PLUMBING ENLARGED PLANS

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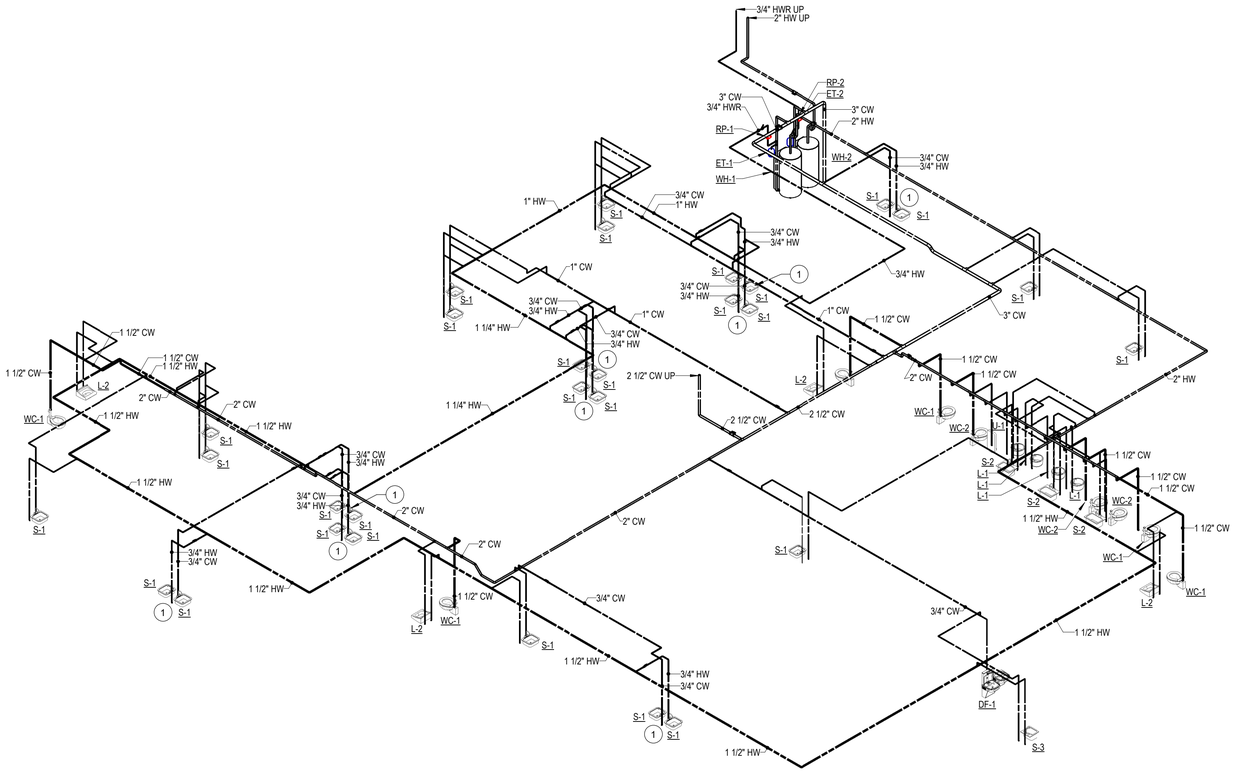

KEYED NOTES

1. PIPE DROPS TO SERVE BACK-TO-BACK FIXTURES

1 **DOMESTIC ISOMETRIC - LEVEL 1**

P511 SCALE:

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Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
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Dover, DE 19904
302.734.7950

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100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

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DS ENGINEERING

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STE. 100
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28403

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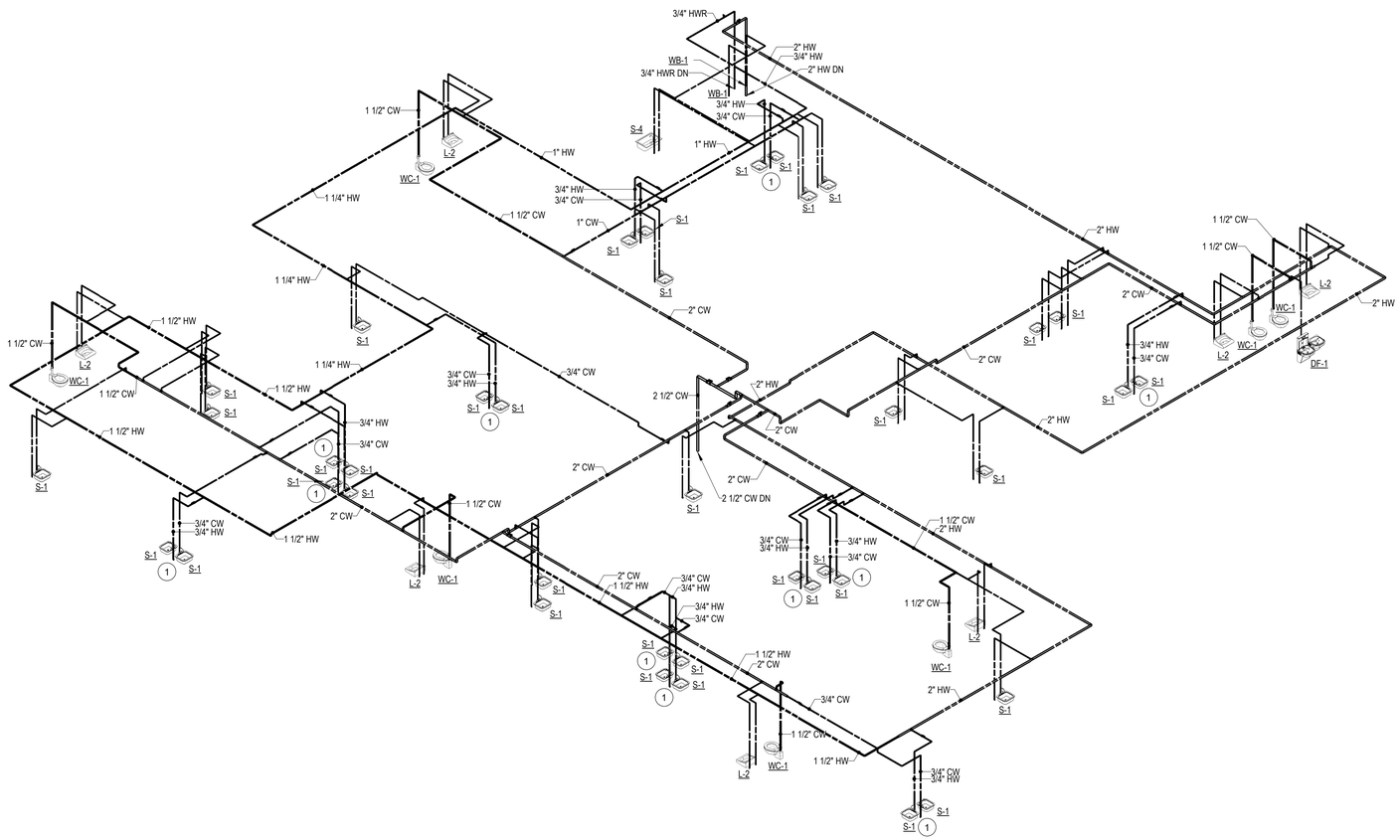

KEYED NOTES

1. PIPE DROPS TO SERVE BACK-TO-BACK FIXTURES

1 **DOMESTIC ISOMETRIC - LEVEL 2**
P512 SCALE:

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Charlotte, NC 28202
980.270.9100

Maryland
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Salisbury, MD 21801
410.546.9100

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Dover, DE 19904
302.734.7950

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PLUMBING DOMESTIC ISOMETRIC LEVEL 2

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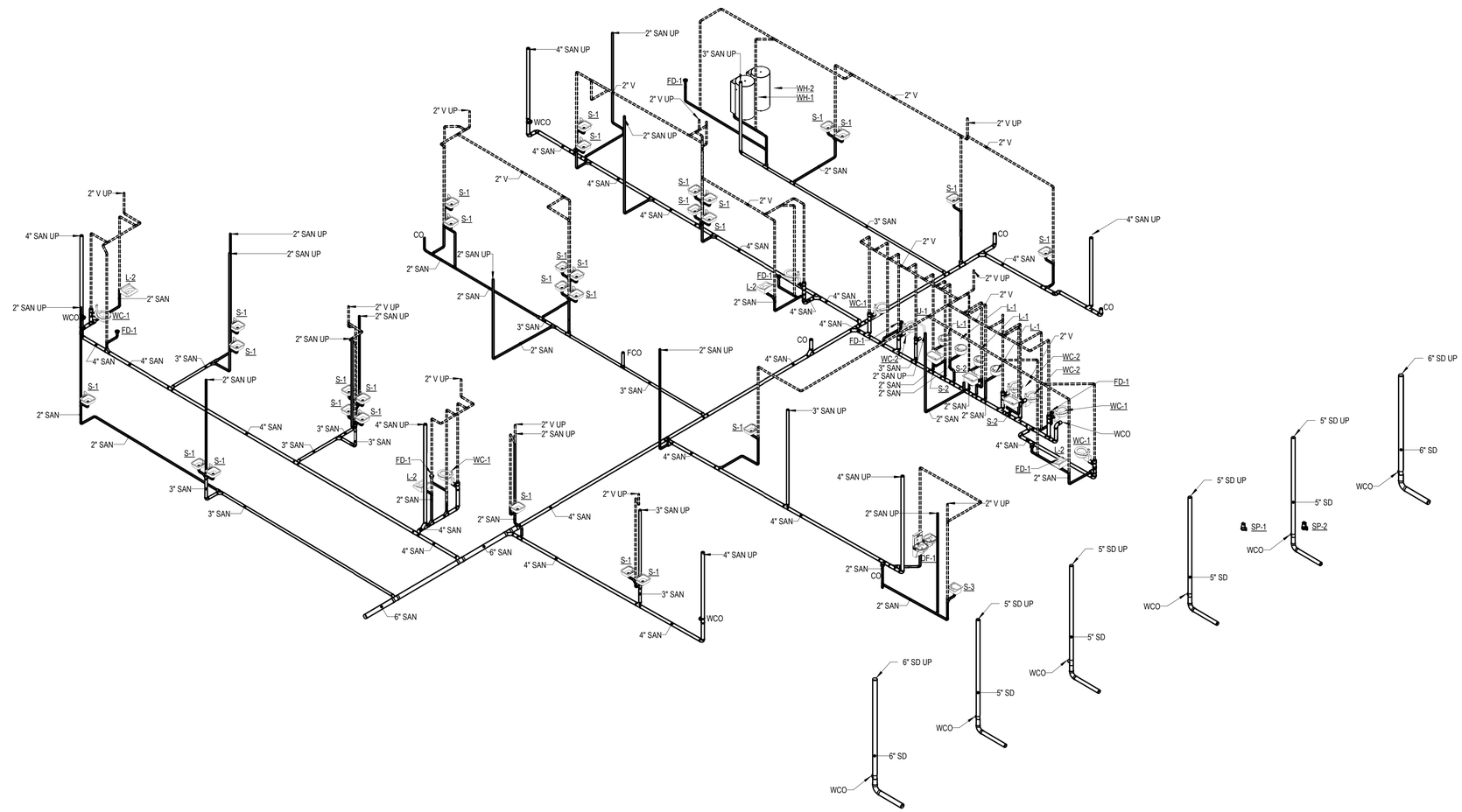

1 **SAN+VENT ISOMETRIC - LEVEL 1**

P521 SCALE:

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PLUMBING SANITARY & VENT ISOMETRIC LEVEL 1

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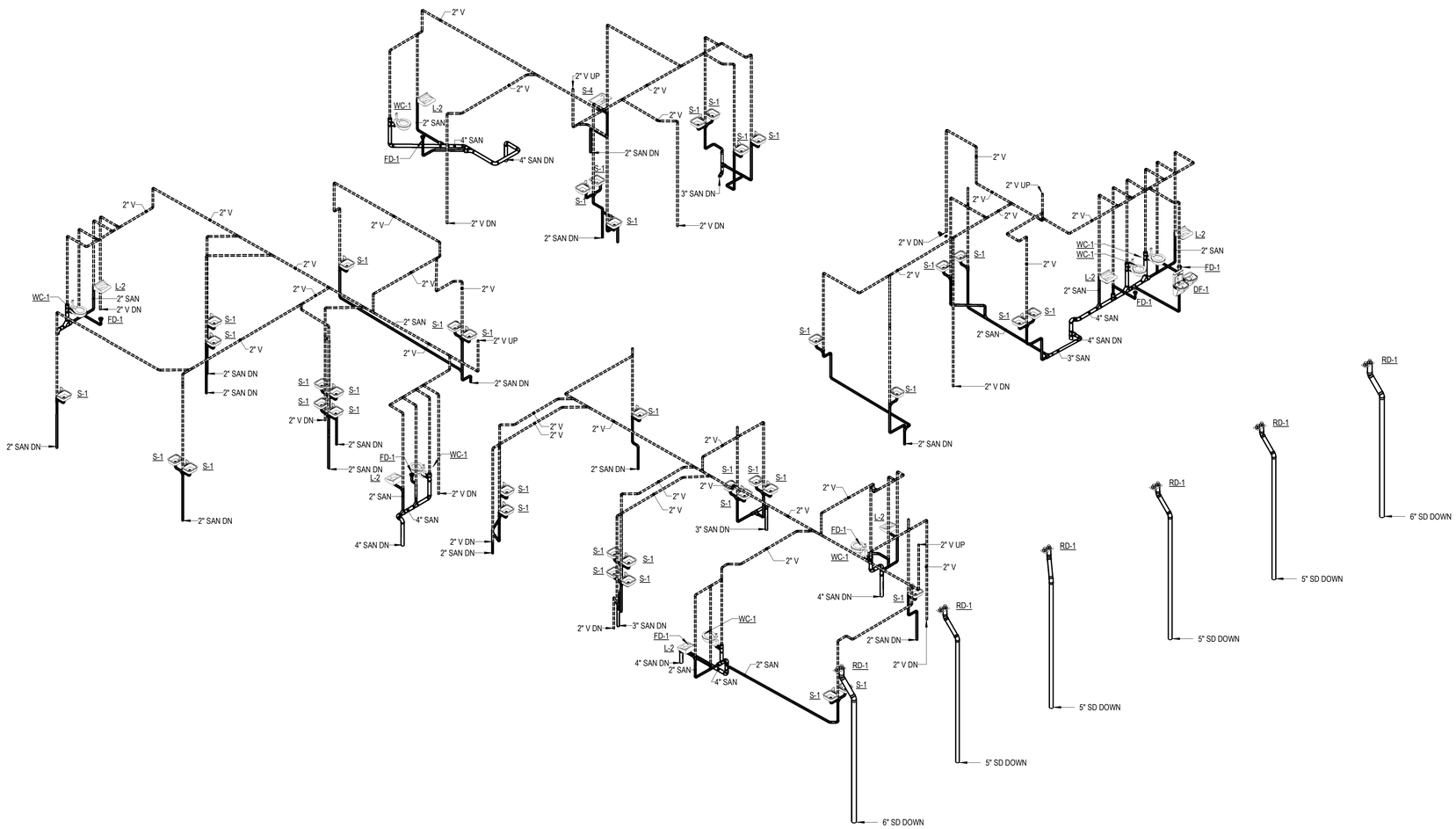

1 **SAN+VENT ISOMETRIC - LEVEL 2**

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312 West Main St, Suite 300
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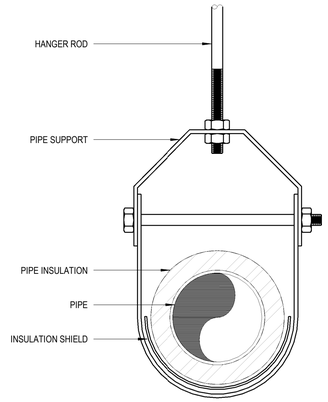
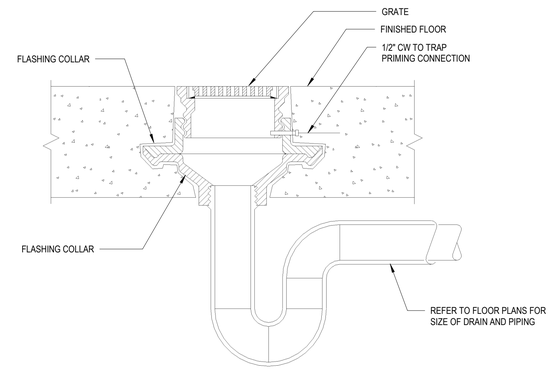


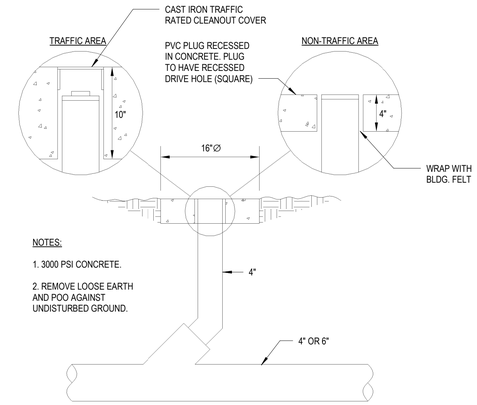
NOTES:

1. REFER TO SPECIFICATION SECTION 230529 FOR INSULATED PIPE SUPPORTS, INSULATION PROTECTION SHIELDS AND SADDLES.

3 **PIPE CLEVIS HANGER DETAIL**
P601 SCALE: 1/8" = 1'-0"



2 **FLOOR DRAIN DETAIL**
P601 SCALE: 1/8" = 1'-0"

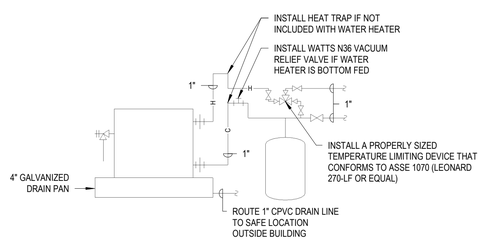


NOTES:

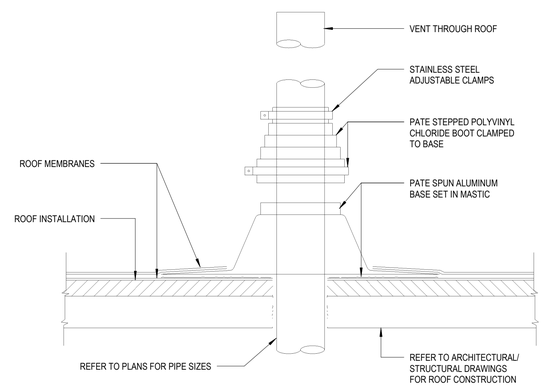
1. 3000 PSI CONCRETE.

2. REMOVE LOOSE EARTH AND POO AGAINST UNDISTURBED GROUND.

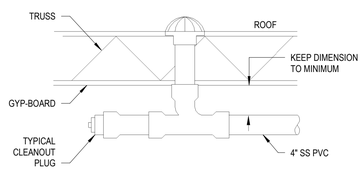
1 **EXTERIOR CLEANOUT DETAIL**
P601 SCALE: 1/8" = 1'-0"



6 **WATER HEATER DETAIL**
P601 SCALE: 1/8" = 1'-0"



5 **VENT THROUGH ROOF DETAIL**
P601 SCALE: 1/8" = 1'-0"



4 **ROOF DRAIN DETAIL**
P601 SCALE: 1/8" = 1'-0"

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980.270.9100

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PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	FLOW	ROUGH-IN CONNECTION				FIXTURE UNITS			FIXTURE	VALVE/FAUCET	REMARKS
			CW	HW	SAN	VENT	CW	HW	SAN			
WC-1	WATER CLOSET - ADA	1.6/1.1 GPF	1"	-	4"	."	10	-	4	AMERICAN STANDARD 2257.103	SLOAN ROYAL 111 1.6 GPF	WALL HUNG WITH MANUAL FLUSH VALVE, ZURN Z1202-N4 CARRIER
WC-2	WATER CLOSET	1.6/1.1 GPF	1"	-	4"	."	10	-	4	AMERICAN STANDARD 2257.103	SLOAN ROYAL 111 1.6 GPF	WALL HUNG WITH MANUAL FLUSH VALVE, ZURN Z1202-N4 CARRIER
U-1	URINAL - ADA	0.125 GPF	3/4"	-	2"	."	5	-	4	AMERICAN STANDARD 6590.001	SLOAN ROYAL 186 1.0 GPF	WALL-MOUNT WITH MANUAL FLUSH VALVE. ZURN Z1222 CARRIER
L-1	LAVATORY - ADA	0.5 GPM	1/2"	1/2"	1-1/2"	."	1.5	1.5	2	AMERICAN STANDARD 0476.028	AMERICAN STANDARD 7385.058	COUNTERTOP DROP-IN WITH MANUAL FAUCET
L-2	LAVATORY - ADA	0.5 GPM	1/2"	1/2"	1-1/2"	."	1.5	1.5	2	AMERICAN STANDARD 0355.012	AMERICAN STANDARD 7385.058	WALL HUNG WITH FAUCET AND MIXING VALVE. ZURN Z1231 CARRIER
S-1	1-COMPARTMENT SINK - ADA	.	1/2"	1/2"	2"	."	2.25	2.25	2	ELKAY STAINLESS STEEL LRAD-1720	AMERICAN STANDARD 6540.177	COUNTERTOP DROP-IN WITH MANUAL FAUCET
S-2	1-COMPARTMENT SINK	.	1/2"	1/2"	2"	."	2.25	2.25	2	ELKAY STAINLESS STEEL LRAD-2521	AMERICAN STANDARD 6540.177	COUNTERTOP DROP-IN WITH MANUAL FAUCET
S-3	1-COMPARTMENT SINK - ADA	.	1/2"	1/2"	2"	."	2.25	2.25	2	ELKAY STAINLESS STEEL LRAD-1716	AMERICAN STANDARD 6540.177	COUNTERTOP DROP-IN WITH MANUAL FAUCET
S-4	1-COMPARTMENT SINK - ADA	.	1/2"	1/2"	2"	."	2.25	2.25	2	ELKAY STAINLESS STEEL LRAD-3122	AMERICAN STANDARD 6540.177	COUNTERTOP DROP-IN WITH MANUAL FAUCET
JS-1	JANITOR MOP SINK	.	1/2"	1/2"	3"	."	2.25	2.25	2	FIAT TSB-100	T&S B-0695	FLOOR-MOUNTED TERRAZZO WITH TILE FLANGE AND MANUAL FAUCET
DF-1	WATER COOLER - ADA	8.0 GPH	3/8"	-	1-1/2"	."	0.5	-	0.5	ELKAY VRCTL8WSK	.	WALL-MOUNT WITH CHILLER IN CABINET AND BOTTLE FILLER WITHOUT WATER FILTER
HB-1	HOSE BIBB	.	3/4"	-	."	."	-	-	-	WOODFORD B65	.	FREEZEPROOF WALL HYDRANT WITH BACKFLOW PREVENTER IN LOCKABLE BOX
WB-1	WALL BOX VALVE	.	1/2"	-	."	."	-	-	-	OATEY 37687	INCLUDED	INCLUDES WATER HAMMER ARRESTOR

WATER HEATER SCHEDULE

DESIGNATION	SERVICE	TYPE	EWT (°F)	LWT (°F)	STORAGE (GAL)	RECOVERY (GPH)	KW	V/PH/HZ	BASIS OF DESIGN	REMARKS
WH-1	DHW	ELECTRIC	50	140	120	82	18	480/3/60	A.O. SMITH DRE-120-18	-
WH-2	DHW	ELECTRIC	50	140	120	82	18	480/3/60	A.O. SMITH DRE-120-18	-

ELEVATOR SUMP PUMP SCHEDULE

DESIGNATION	SERVICE	FLOW (GPM)	HEAD (FT)	BASIN SIZE	MOTOR (HP)	SPEED (RPM)	ELECTRICAL (V / PH / Hz)	BASIS OF DESIGN	REMARKS
SP-1	ELEVATOR	50	-	BY OTHERS	3/4	-	115 / 1 / 60	ZOELLER 145	SEE NOTES
SP-2	ELEVATOR	50	-	BY OTHERS	3/4	-	115 / 1 / 60	ZOELLER 145	SEE NOTES

NOTES:
1. SEE INSTALLATION DETAIL FOR PIPING ACCESSORIES.
2. SEE MECHANICAL DRAWINGS FOR REQUIRED CONTROLS POINTS FOR BAS MONITORING.

EXPANSION TANK SCHEDULE

DESIGNATION	SERVICE	BASIS OF DESIGN	REMARKS
ET-1	WH-1	STATE ETC-5X	PROVIDE PRESSURE CHARGE AS PER MANUFACTURER'S INSTRUCTIONS
ET-2	WH-2	STATE ETC-5X	PROVIDE PRESSURE CHARGE AS PER MANUFACTURER'S INSTRUCTIONS

DRAIN SCHEDULE

DESIGNATION	BASIS OF DESIGN	DESCRIPTION
RD-1	ZURN Z100	CAST IRON BODY, POLY-DOME STRAINER

NOTES:
1. SEE FLOOR PLANS FOR DRAIN SIZES AND REQUIRED ACCESSORIES.

SHOCK ARRESTOR SCHEDULE

DESIGNATION	DRAIN SIZE / TYPE
SA - "A"	1 - 11
SA - "B"	12 - 32
SA - "C"	33 - 68
SA - "D"	69 - 113

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER
925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY
DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS
ISSUED: XX/XX/XX

SHEET TITLE

PLUMBING SCHEDULES

ISSUE BLOCK

Mark	Date	Description

PROJECT NO: 2023038.00
DATE: 04/12/2024
SCALE: 12" = 1'-0"
DRAWN BY: Author | PROJ MGR: Checker

P701

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MECHANICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

℄	CENTERLINE
#	NUMBER, POUND
$	DOLLAR
%	PERCENT
&	AND
+	PLUS
-	MINUS
/	DIVIDE BY, PER
<	LESS THAN
=	EQUALS, EQUAL TO
>	GREATER THAN
@	AT
x	MULTIPLY BY, BY
x"	INCHES, INCH
x'	FEET, FOOT
±	PLUS OR MINUS
Ø	ROUND, DIAMETER, PHASE
≤	LESS THAN OR EQUAL TO
≥	GREATER THAN OR EQUAL TO
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ACFM	ACTUAL CUBIC FEET PER MINUTE
ACH	AIR CHANGES PER HOUR
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR, AREA DRAIN
AF	ANTIFREEZE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL, ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
AV	AIR VENT
AV	ACID RESISTANT VENT
AW	ACID RESISTANT WASTE
BAS	BUILDING AUTOMATION SYSTEM
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLOW OFF
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALANCING VALVE
CA	CONTROL AIR
CBV	CALIBRATED BALANCING VALVE
CC	CONTROLS CONTRACTOR
CD	CONDENSATE DRAIN
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CU-FT	CUBIC FEET
CU-YD	CUBIC YARD
CV	CONTROL VALVE, VALVE FLOW COEFFICIENT
CW	COLD WATER, DOMESTIC CITY WATER
°C	DEGREE(S) CELSIUS
D	DEEP, DRAIN WATER
DB	DECIBEL, DRY BULB
DCW	DOMESTIC COLD WATER
DD	DUCT DETECTOR
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DHW	DOMESTIC HOT WATER SUPPLY
DHWR	DOMESTIC HOT WATER RECIRCULATION
DIA	DIAMETER
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DL	DOOR LOUVER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DSP	DRY SPRINKLER PIPE
DW	DISTILLED WATER
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ED	EQUIPMENT DRAIN
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
EQ	EQUALIZING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ESS	EMERGENCY STOP SWITCH
ETC	ETCETERA
EWT	ENTERING WATER TEMPERATURE
EX, EXIST	EXISTING
EXP	EXPANSION

F	FIRE LINE
F&T	FLOAT AND THERMOSTATIC TRAP
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER, FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FHE	FUME HOOD EXHAUST
FI/FT	FINS PER FOOT
FI/INCH	FINS PER INCH
FM	FLOWMETER
FMF	FLOWMETER FITTING
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE / SMOKE DAMPER
FT	FOOT, FEET
°F	DEGREE(S) FAHRENHEIT
G	NATURAL GAS
GA	GAUGE
GAL	GALLON, GALLONS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GHR	GLYCOL HEATING RETURN
GHS	GLYCOL HEATING SUPPLY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H'STAT	HUMIDISTAT
HB	HOSE BIB
HD	HUB DRAIN, HEAT DETECTOR
HED	HOSE END DRAIN VALVE
HL	HEIGHT LIMIT
HOA	HAND - OFF - AUTO
HORIZ	HORIZONTAL
HP	HIGH-PRESSURE, HORSEPOWER
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS	HIGH PRESSURE STEAM SUPPLY
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IA	INSTRUMENT AIR
ID	INDIRECT DRAIN, INSIDE DIAMETER
IN	INCH, INCHES
INV	INVENTORY
INV EL	INVERT ELEVATION
ISO	ISOLATION
KW	KILOWATTS
KWH	KILOWATT HOUR
L	LONG, LENGTH
LA	LABORATORY AIR
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LBS	POUNDS
LL	LOW LIMIT
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPS	LOW PRESSURE STEAM SUPPLY
LV	LABORATORY VACUUM
LW	LABORATORY WASTE
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MANUAL DAMPER
MECH	MECHANICAL
MEQ	MECHANICAL EQUIPMENT
MH-#	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MP	MEDIUM PRESSURE
MPC	MEDIUM PRESSURE STEAM CONDENSATE
MPS	MEDIUM PRESSURE STEAM SUPPLY
MRT	MOTOR RATED TOGGLE SWITCH
MS	MOTOR STARTER
MS/D	COMBINATION MOTOR STARTER AND DISCONNECT
MV	MEDICAL VACUUM
N	NITROGEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NO	NORMALLY OPEN, NITROUS OXIDE
No	NUMBER
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OF	OVERFLOW
OS&Y	OUTSIDE STEM AND YOKE

P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE, PLUMBING CONTRACTOR
PCP	PUMP CONTROL PANEL
PD	PRESSURE DROP, PUMP DISCHARGE
PG	PILOT GAS
PH	PHASE
PI	PRESSURE INDEPENDENT
PICV	PRESSURE INDEPENDENT CONTROL VALVE
PIV	POST INDICATING VALVE
PNL	PANEL
PPH	POUNDS PER HOUR
PRV	PRESSURE REDUCING VALVE, PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
ΔP	DIFFERENTIAL PRESSURE
QTY	QUANTITY
RA	RETURN AIR
RAF	RETURN AIR FAN
RD	ROOF DRAIN, ROUND
RECIRC	RECIRCULATING
REL	RELIEF AIR
REV	REVISION
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
ROR	REVERSE OSMOSIS WATER RETURN
ROS	REVERSE OSMOSIS WATER SUPPLY
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	REFRIGERANT SUCTION
RV	RELIEF VENT, REFRIGERANT VENT
RX	REMOVE EXISTING
SA	SUPPLY AIR, SHOCK ARRESTOR
SAN	SANITARY, SOIL, WASTE
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	STORM DRAIN, SMOKE DAMPER
SF	SQUARE FOOT
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER LINE
SQ FT	SQUARE FOOT
SQ-IN	SQUARE INCH
SS	STAINLESS STEEL, SANITARY SEWER
SW	SOFT WATER
T'STAT	THERMOSTAT
TA	TRANSFER AIR
TAB	TEST AND BALANCE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TW	TREATED WATER
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
ΔT	TEMPERATURE DIFFERENTIAL
UC	UNDERCUT
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS, VENT
VAC	VACUUM
VD	VOLUME DAMPER
VENT	VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VPD	VACUUM PUMP DISCHARGE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATTS, WIDE
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHESIA GAS DISPOSAL
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WH	WALL HYDRANT
WWM	WELDED WIRE MESH

MECHANICAL SYMBOLS

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
AC-X	AIR COMPRESSOR DESIGNATION
ACC-X	AIR COOLED CHILLER DESIGNATION
ACU-X	AIR CONDITIONING UNIT DESIGNATION
AD-X	AIR DRYER DESIGNATION
AHU-X	AIR HANDLING UNIT DESIGNATION
AFMS-X	AIRFLOW MEASURING STATION DESIGNATION
AS-X	AIR SEPARATOR DESIGNATION
CAD-X	COMPRESSED AIR DRYER DESIGNATION
CC-X	COOLING COIL DESIGNATION
CCP-X	COIL CIRCULATING PUMP DESIGNATION
CDWP-X	CONDENSER WATER PUMP
CFP-X	CHEMICAL FEED PUMP DESIGNATION
CHWP-X	CHILLED WATER PUMP DESIGNATION
CRU-X	CONDENSATE RETURN UNIT DESIGNATION
CU-X	CONDENSING UNIT DESIGNATION
CUH-X	CABINET UNIT HEATER DESIGNATION
CT-X	COOLING TOWER DESIGNATION
DHC-X	DUCT HEATING COIL DESIGNATION
EF-X	EXHAUST FAN DESIGNATION
ET-X	EXPANSION TANK DESIGNATION
F-X	FILTER DESIGNATION
FCU-X	FAN COIL UNIT DESIGNATION
GEN-X	GENERATOR DESIGNATION
GEF-X	GENERAL EXHAUST FAN DESIGNATION
H-X	HUMIDIFIER DESIGNATION
HRC-X	HEAT RECOVERY COIL DESIGNATION
HWP-X	HEATING WATER PUMP DESIGNATION
HX-X	HEAT EXCHANGER DESIGNATION
LEF-X	LABORATORY EXHAUST FAN DESIGNATION
LGE-X	LOUVERED GRAVITY EXHAUST DESIGNATION
MAU-X	MAKEUP AIR UNIT DESIGNATION
P-X	PUMP DESIGNATION
PCWP	PRIMARY CHILLED WATER PUMP
PHWP	PRIMARY HOT WATER PUMP
RF-X	RETURN FAN DESIGNATION
SA-X	SOUND ATTENUATOR DESIGNATION
SCWP-X	SECONDARY CHILLED WATER PUMP
SHWP-X	SECONDARY HOT WATER PUMP
SF-X	SUPPLY FAN DESIGNATION
SP-X	STATIC PRESSURE SENSOR DESIGNATION
ST-X	STEAM TRAP DESIGNATION
UH-X	UNIT HEATER DESIGNATION
V-X	VALVE DESIGNATION

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
T	TEMPERATURE SENSOR
C	CARBON DIOXIDE SENSOR
H	HUMIDITY SENSOR
T H	COMBINATION TEMPERATURE / HUMIDITY SENSOR
$	SWITCH
100 CFM	TRANSFER AIR FLOW (CFM INDICATED)
	FLEX DUCT
	SUPPLY AIR DIFFUSER / GRILLE
	RETURN AIR DIFFUSER / GRILLE
	EXHAUST AIR DIFFUSER / GRILLE
	AIRFLOW MONITORING DEVICE
	STATIC PRESSURE SENSING STATION
	FIRE DAMPER
	COMBINATION FIRE / SMOKE DAMPER
	VOLUME / BALANCING DAMPER
OBD	BACK DRAFT DAMPER
M	AUTOMATIC ISOLATION DAMPER
M	AUTOMATIC GAS TIGHT ISOLATION DAMPER
	MANUAL GAS TIGHT ISOLATION DAMPER
	SMOKE DAMPER
SD	SMOKE DETECTOR
	FLEXIBLE CONNECTION
	DUCTWORK W/ SOUND LINING
AD	HORIZONTAL ACCESS DOOR
AD	VERTICAL ACCESS DOOR
	ELBOW W/ DOUBLE THICKNESS TURNING VANES
	RECTANGULAR BRANCH TAKE-OFF
	BELL MOUTH BRANCH TAKE-OFF
	ROUND BRANCH TAKE-OFF
	ROUND DUCT DROP OFF BOTTOM
	DUCT TRANSITION
	SQUARE TO ROUND TRANSITION
UP	DUCTWORK CHANGE IN ELEVATION (UP OR DOWN)
	SUPPLY / OUTSIDE AIR DUCT RISER
	RETURN AIR DUCT RISER
	EXHAUST / RELIEF AIR DUCT RISER
	SUPPLY / OUTSIDE AIR ROUND DUCT RISER
	RETURN AIR ROUND DUCT RISER
	EXHAUST / RELIEF AIR ROUND DUCT RISER
MAINTENANCE ACCESS AREA	TERMINAL UNIT
MAINTENANCE ACCESS AREA	TERMINAL UNIT WITH ELECTRIC REHEAT COIL
X — AIR DEVICE TYPE; XX — CFM	AIR DEVICE IDENTIFIER

GENERAL NOTES

HVAC GENERAL NOTES

1. COMPLY WITH ALL APPLICABLE INTERNATIONAL BUILDING CODES FOR ALL WORK UNDER THIS CONTRACT.
2. MAXIMUM, MINIMUM CFM AND RE-HEATING FOR VAV BOXES ARE AS INDICATED ON THE VAV UNIT SCHEDULE. IF NOT INDICATED, SET THE MINIMUM CFM TO 50% OF THE MAXIMUM CFM.
3. PRESSURE DEPENDENT VAV BOXES SHALL NOT BE USED.
4. ALL VAV BOXES SHALL BE PROVIDED WITH A MINIMUM OF THREE (3) DUCT DIAMETERS OF STRAIGHT DUCT RUN AT THE INLET. INLET DUCT SHALL BE EQUAL OR LARGER THAN THE BOX INLET SIZE.
5. SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS BASED ON THE PROJECT SPECIFIC LAYOUT AND LENGTH OF REFRIGERANT PIPING. REFER TO SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
6. FABRICATE ALL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCTWORK SHALL BE A MINIMUM OF 26 GAUGE.
7. PROVIDE ACCESS DOORS IN DUCTWORK TO SERVICE FIRE DAMPERS & DEVICES WITHIN DUCTS.
8. PROVIDE ACCESS DOORS IN INACCESSIBLE CEILINGS TO ACCESS MEP DEVICES ABOVE CEILINGS NOT OTHERWISE ACCESSIBLE.
9. INSTALL FLEXIBLE DUCTS IN ACCORDANCE WITH SMACNA STANDARDS AND PROJECT SPECIFICATIONS.
10. MAXIMUM ALLOWED FLEXIBLE DUCT LENGTH SHALL BE FIVE (5) FEET.
11. PROVIDE MANUAL VOLUME DAMPERS AT EACH DUCT BRANCH LEADING TO AN OUTLET/INLET OPENING. INSTALL DAMPERS AS FAR AS POSSIBLE AWAY FROM THE DIFFUSER.
12. REFER TO AIR DEVICE SCHEDULE FOR INLET DUCT SIZES UNLESS OTHERWISE INDICATED.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING AIR DEVICES.
14. VERIFY REFLECTED CEILING PLANS IN THE FIELD FOR EXACT LAYOUT LOCATION OF ALL CEILING GRILLES & DIFFUSERS, COORDINATE WITH ALL OTHER TRADES FOR THEIR LAYOUTS.
15. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DETAILS OF EXTERIOR WALL LOUVERS AND ROOF PENETRATION CURBS.
16. PROVIDE 1/2" x 1/2" STAINLESS STEEL BIRD SCREEN ON THE INSIDE FACE OF ALL OUTSIDE LOUVERS.
17. COORDINATE FINAL EQUIPMENT/FIXTURE LOCATIONS WITH THE GENERAL CONTRACTOR. THE LOCATION AS INDICATED ON THE DRAWING IS APPROXIMATE. INSTALL ALL MECHANICAL EQUIPMENT SUCH THAT MANUFACTURER'S MAINTENANCE AREA IS CLEAR.
18. COORDINATE ALL ROOF PENETRATION SIZES AND LOCATIONS WITH APPROVED EQUIPMENT SHOP DRAWINGS.
19. COORDINATE ALL MECHANICAL, PLUMBING AND ELECTRICAL WORK & EQUIPMENT WITH STRUCTURAL MEMBERS, ELECTRICAL WORK, FIXTURES AND ALL OTHER TRADES.
20. DO NOT ROUTE ANY WET PIPING THROUGH ELECTRICAL, COMMUNICATION OR ELEVATOR EQUIPMENT ROOMS.
21. RUN ALL PIPING CONCEALED ABOVE CEILING EXCEPT WHERE INDICATED.
22. PROVIDE INSULATED TRAPPED CONDENSATION DRAIN PIPING, WITH AIR GAPS, FROM COOLING COIL DRAIN PANS TO NEAREST FLOOR DRAIN, STORM DRAIN OR TO OUTSIDE AS INSTRUCTED BY THE ENGINEER.
23. DRAIN ALL CONDENSATE DRAIN PANS WITH INSULATED, TRAPPED PIPING AS INDICATED OR, WHERE NOT INDICATED, AS DIRECTED BY THE ENGINEER ON SITE.
24. PROVIDE FLEXIBLE DUCT FLEXIBLE CONNECTION BETWEEN EACH DUCT FAN CONNECTION.
25. PROVIDE VFD'S, STARTERS AND DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT WHICH COMPLY WITH SPECIFICATIONS FOR MANUFACTURER, QUALITY, CONFORMANCE AND OPTIONS.
26. PROVIDE FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS OF ALL FIRE/SMOKE RATED ASSEMBLIES, TO MAINTAIN THE INTEGRITY OF THE ASSOCIATED FIRE/SMOKE ASSEMBLY.
27. FIRESTOP/SMOKESTOP AND SLEEVE ALL PENETRATIONS THROUGH FIRE/SMOKE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLIES AND LOCATIONS.
28. INSTALL ALL DUCT SMOKE DETECTORS FURNISHED UNDER DIVISION 28 SPECIFICATIONS.
29. COORDINATE FINAL THERMOSTAT LOCATIONS WITH INTERIOR FINISH AND FURNITURE EQUIPMENT DRAWINGS PRIOR TO INSTALLATION. MOUNT SENSORS 48" AFF TO THE TOP OF THE DEVICE.
30. THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONALSYSTEM INCLUDING ALL NECESSARY APPURTENCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
31. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM WITH ALL APPICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE, AND FEDERAL AUTHORITIES.
32. THIS PROJECT SHALL CONFORM TO APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.
33. MATERIALS AND EQUIPMENT SHALL HAVE STAPS OR SEALS OF ARI, ASME, UL, AND ASTM.
34. THE CONTRACTOR SHALL OBTRAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.
35. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICT THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
36. RUN ALL HORIZONTAL PIPING AND DUCTWORK ABOVE CEILING UNLESS OTHERWISE NOTED.
37. OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
38. MAKE DUCT OF ALL WALLS WITH SHEET METAL DUCTS. FLEXIBLE DUCT PENETRATIONS OF WALLS ARE NOT ACCEPTABLE.
39. DUCTWORK SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
40. DO NOT INSTALL PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.
41. LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS, AND OFFSETS AS REQUIRED.
42. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS FOR ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION.
43. THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE DESIGNER AND/OR OWNER UNLESS OTHERWISE NOTED IN DRAWINGS AND SPECIFICATIONS.
44. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK OR PIPING INSULATION IS APPLIED.
45. MAINTAIN A MINIMUM 7'-0" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
46. PROVIDE VIBRATION ISOLATION

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
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SHEET TITLE

MECHANICAL LEGENDS AND ABBREVIATIONS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	04/12/2024
SCALE:	As indicated
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M001

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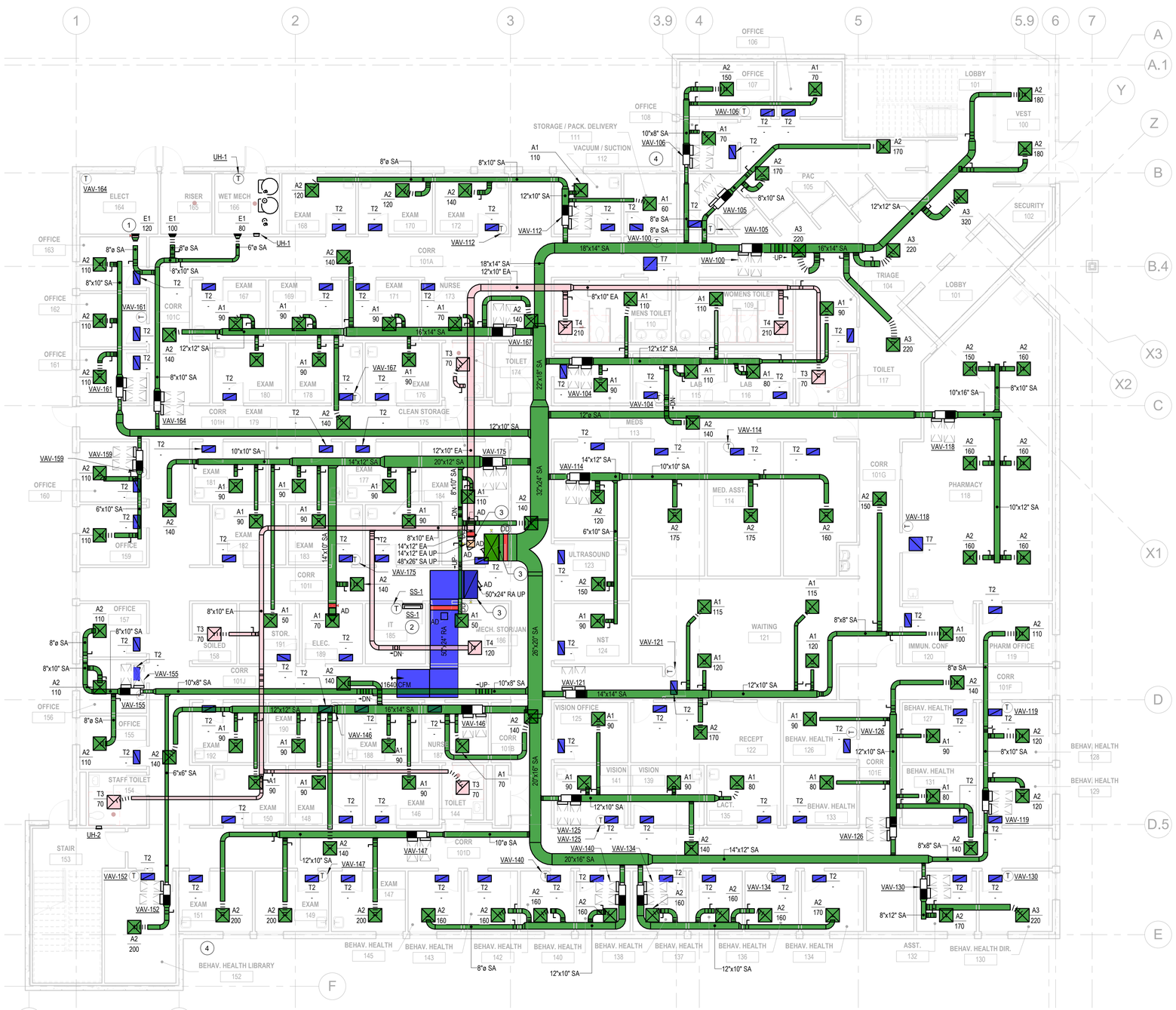
DRAWING NOTES:

1. PROVIDE NON-DUCTED AIR TRANSFERS IN EXAM ROOMS AND BEHAVIORAL HEALTH. SEE DETAIL 8 / M601 FROM MORE INFORMATION. DUCT OPENINGS SHALL FACE CORRIDOR SIDE OF ROOM.



1 FIRST FLOOR - MECHANICAL NEW WORK
M101 SCALE: 1/8" = 1'-0"

KEYED NOTES

1. PROVIDE ACCESS TO FIRE DAMPER THROUGH REMOVABLE GRILLE.
2. ROUTE REFRIGERANT PIPING UP TO ROOF THROUGH MECHANICAL SHAFT. SIZE PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. PROVIDE FIRE/SMOKE DAMPER AT BOTTOM OF SHAFT PENETRATION.
4. ROUTE 3/4" INSULATED CONDENSATE DRAIN FROM DUCTLESS SPLIT SYSTEM UNIT DOWN THROUGH WALL TO 12" ABOVE GRADE AND TERMINATE WITH 45 DEGREE ELBOW AND SPLASH BLOCK

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403
910.791.8016
WWW.DSAENG.COM

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925 N 4TH STREET
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SHEET TITLE

MECHANICAL PLAN LEVEL 1

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	04/12/2024
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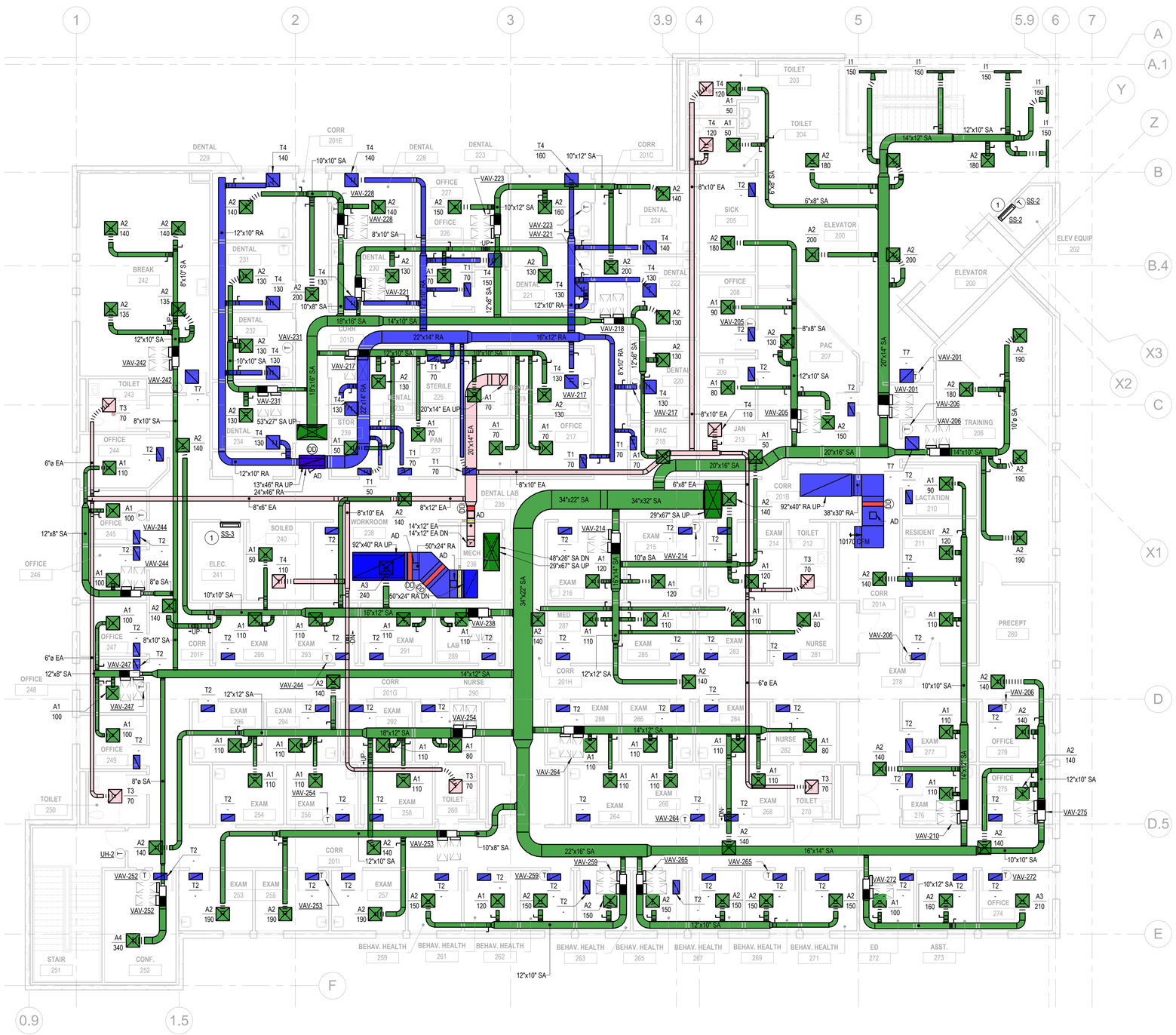
DRAWING NOTES:

1. PROVIDE NON-DUCTED AIR TRANSFERS IN EXAM ROOMS AND BEHAVIORAL HEALTH. SEE DETAIL 8 / M601 FROM MORE INFORMATION. DUCT OPENINGS SHALL FACE CORRIDOR SIDE OF ROOM.



1 **SECOND FLOOR - MECHANICAL NEW WORK**
M102 SCALE: 1/8" = 1'-0"

KEYED NOTES

1. ROUTE REFRIGERANT PIPING UP TO ROOF. SIZE PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS) 0	1/2	1	2	3	4
EXTERIOR WALL			■	■	■	
FIRE WALL/PARTY WALL				▨	▨	▨
FIRE BARRIER			▨	▨	▨	▨
FIRE PARTITION		▨	▨			
SMOKE BARRIER			▨			
SMOKE PARTITION	▨					
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403
910.791.8016
WWW.DSAENG.COM

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MEDNORTH HEALTH CENTER

925 N 4TH STREET
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SHEET TITLE

MECHANICAL PLAN LEVEL 2

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	04/12/2024
SCALE:	1/8" = 1'-0"
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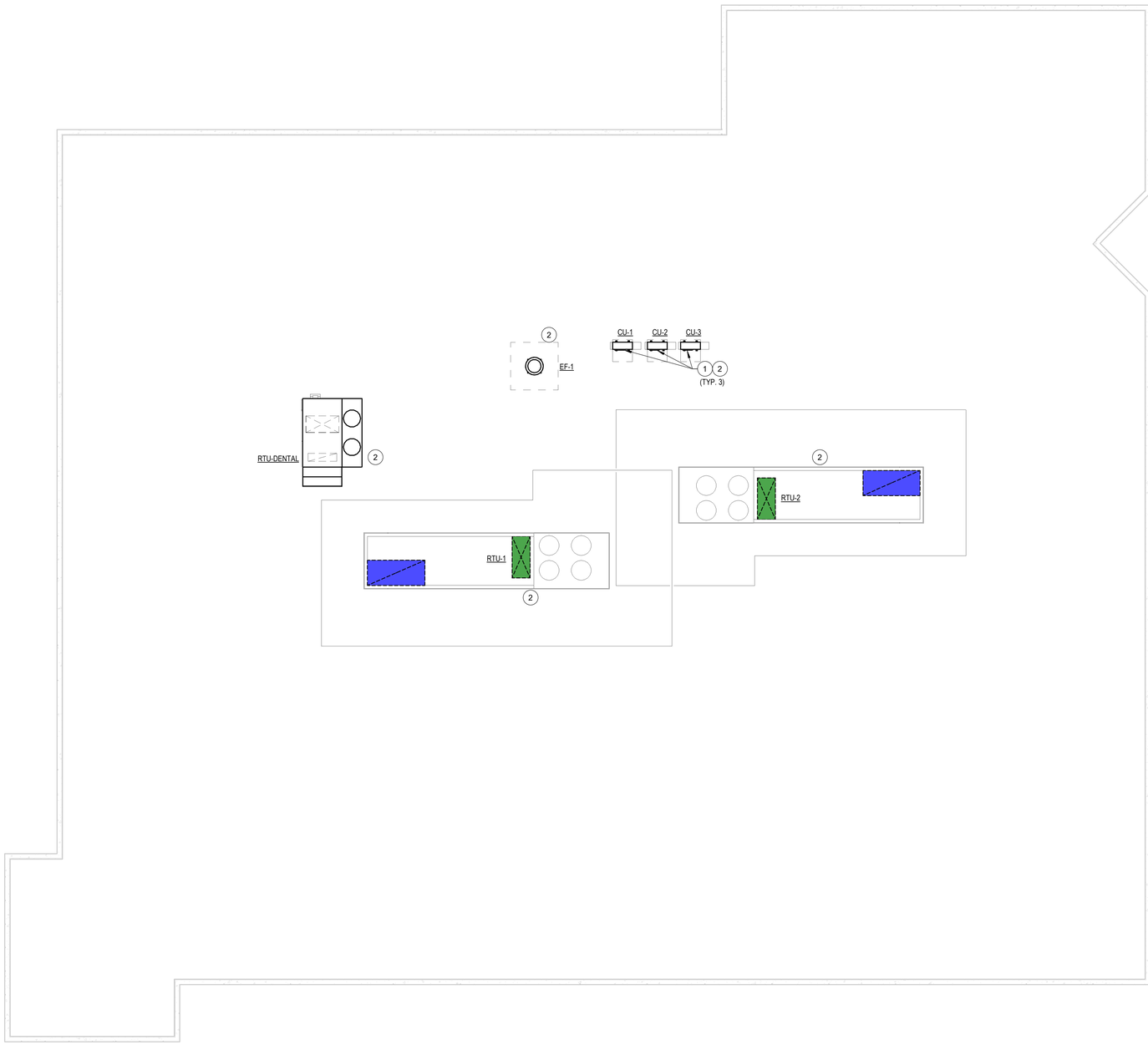
DRAWING NOTES:



1 **ROOF - DUCTWORK**
M103 SCALE: 1/8" = 1'-0"

KEYED NOTES

1. ROUTE REFRIGERANT PIPING FROM INDOOR SPLIT SYSTEMS. SIZE PIPING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE ROOF CURB TO SUPPORT EQUIPMENT.

RATED WALL/PARTITION LEGEND

TYPE OF WALL/PARTITION	ASSEMBLY RATING, IN HOURS)					
	0	1/2	1	2	3	4
EXTERIOR WALL						
FIRE WALL/PARTY WALL						
FIRE BARRIER						
FIRE PARTITION						
SMOKE BARRIER						
SMOKE PARTITION						
NON-RATED PARTITION						

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

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ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

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100 Discovery Boulevard, Suite 102
Newark, DE 19713
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CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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SHEET TITLE

MECHANICAL DUCTWORK ROOF

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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1 **FIRST FLOOR - AIR BALANCE**
M301 SCALE: 1/8" = 1'-0"

FIRST FLOOR SPACE SCHEDULE

NUMBER	NAME	ASHRAE 170-2021 TABLE 8-2 CLASSIFICATION	MIN TOTAL ACH	ACTUAL ACH	PRESSURIZATION
100	VEST	N/A	0	12.27	NR
101	LOBBY	N/A	0	4.40	NR
101A	CORR	N/A	0	3.18	NR
101B	CORR	N/A	0	3.18	NR
101C	CORR	N/A	0	3.18	NR
101D	CORR	N/A	0	3.18	NR
101E	CORR	N/A	0	3.18	NR
101F	CORR	N/A	0	3.18	NR
101G	CORR	N/A	0	3.17	NR
101H	CORR	N/A	0	3.18	NR
101I	CORR	N/A	0	3.18	NR
101J	CORR	N/A	0	3.18	NR
102	SECURITY	N/A	0	8.22	NR
103	ELEVATOR	N/A	0	N/A	NR
104	TRIAGE	N/A	0	5.40	NR
105	PAC	N/A	0	4.23	NR
106	OFFICE	N/A	0	3.96	NR
107	OFFICE	N/A	0	5.91	NR
108	OFFICE	N/A	0	5.60	NR
109	WOMENS TOILET	TOILET ROOM	4	4.31	NEG
110	MENS TOILET	TOILET ROOM	4	6.43	NEG
111	STOR.	N/A	0	4.50	NR
112	EXAM	GENERAL EXAMINATION ROOM	2	6.60	NR
113	MEDS	MEDICATION ROOM	2	5.93	NR
114	MED. ASST.	N/A	0	4.51	NR
115	LAB	LABORATORY WORK ROOM	3	5.00	NR
116	LAB	LABORATORY WORK ROOM	3	5.32	NR
117	TOILET	TOILET ROOM	4	5.75	NEG
118	PHARMACY	N/A	0	5.21	NR
119	PHARM OFFICE	N/A	0	5.00	NR
120	IMMUN. CONF	N/A	0	8.00	NR
121	WAITING	N/A	0	5.14	NR
122	RECEPT	N/A	0	4.81	NR
123	ULTRASOUND	CLASS I IMAGING ROOM	3	10.46	NR
124	NST	GENERAL EXAMINATION ROOM	2	6.17	NR
125	VISION OFFICE	N/A	0	4.57	NR
126	BEHAV. HEALTH	N/A	0	5.08	NR
127	BEHAV. HEALTH	N/A	0	4.57	NR
128	BEHAV. HEALTH	N/A	0	4.53	NR
129	BEHAV. HEALTH	N/A	0	4.95	NR
130	BEHAV. HEALTH DIR.	N/A	0	10.53	NR
131	BEHAV. HEALTH	N/A	0	5.14	NR
132	ASST.	N/A	0	9.33	NR
133	BEHAV. HEALTH	N/A	0	5.14	NR
134	BEHAV. HEALTH	N/A	0	8.84	NR
135	LACT.	N/A	0	5.71	NR
136	BEHAV. HEALTH	N/A	0	9.00	NR
137	BEHAV. HEALTH	N/A	0	8.89	NR
138	BEHAV. HEALTH	N/A	0	9.00	NR
139	VISION	N/A	0	6.92	NR
140	BEHAV. HEALTH	N/A	0	8.78	NR
141	VISION	N/A	0	6.92	NR
142	BEHAV. HEALTH	N/A	0	8.89	NR
143	BEHAV. HEALTH	N/A	0	8.78	NR
144	TOILET	TOILET ROOM	4	6.18	NEG
145	BEHAV. HEALTH	N/A	0	8.78	NR
146	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
147	EXAM	GENERAL EXAMINATION ROOM	2	9.27	NR
148	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
149	EXAM	GENERAL EXAMINATION ROOM	2	9.27	NR
150	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
151	EXAM	GENERAL EXAMINATION ROOM	2	9.36	NR
152	BEHAV. HEALTH LIBRARY	N/A	0	6.19	NR
153	STAIR	N/A	0	N/A	NR
154	STAFF TOILET	TOILET ROOM	4	4.72	NEG
155	OFFICE	N/A	0	6.00	NR
156	OFFICE	N/A	0	6.07	NR
157	OFFICE	N/A	0	6.14	NR
158	SOILED	SOILED HOLDING	6	6.36	NEG
159	OFFICE	N/A	0	6.06	NR
160	OFFICE	N/A	0	6.06	NR
161	OFFICE	N/A	0	6.00	NR
162	OFFICE	N/A	0	6.00	NR
163	OFFICE	N/A	0	5.93	NR
164	ELECT	N/A	0	N/A	NR
165	COMP	N/A	0	N/A	NR
166	RISER	N/A	0	N/A	NR
167	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
168	EXAM	GENERAL EXAMINATION ROOM	2	6.06	NR
169	EXAM	GENERAL EXAMINATION ROOM	2	5.95	NR
170	EXAM	GENERAL EXAMINATION ROOM	2	5.95	NR
171	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
172	EXAM	GENERAL EXAMINATION ROOM	2	7.64	NR
173	NURSE	N/A	0	4.86	NR
174	TOILET	TOILET ROOM	4	6.27	NEG
175	CLEAN STORAGE	CLEAN SUPPLY	2	4.38	NR
176	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
177	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
178	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
179	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
180	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
181	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
182	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
183	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
184	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
185	IT	N/A	0	N/A	NR
186	MECH. STOR/JAN	ENVIRONMENTAL SERVICES ROOM	6	6.26	NR
187	NURSE	N/A	0	4.86	NR
188	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
189	PHONE/ DATA	N/A	0	4.77	NR
190	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
191	STOR.	N/A	0	3.49	NR
192	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR

NOTE: OUTSIDE AIR CALCULATIONS COMPLETED VIA AIR-CLASS DESIGN OPTION

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

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SHEET TITLE

AIR BALANCE LEVEL 1

ISSUE BLOCK

Mark	Date	Description

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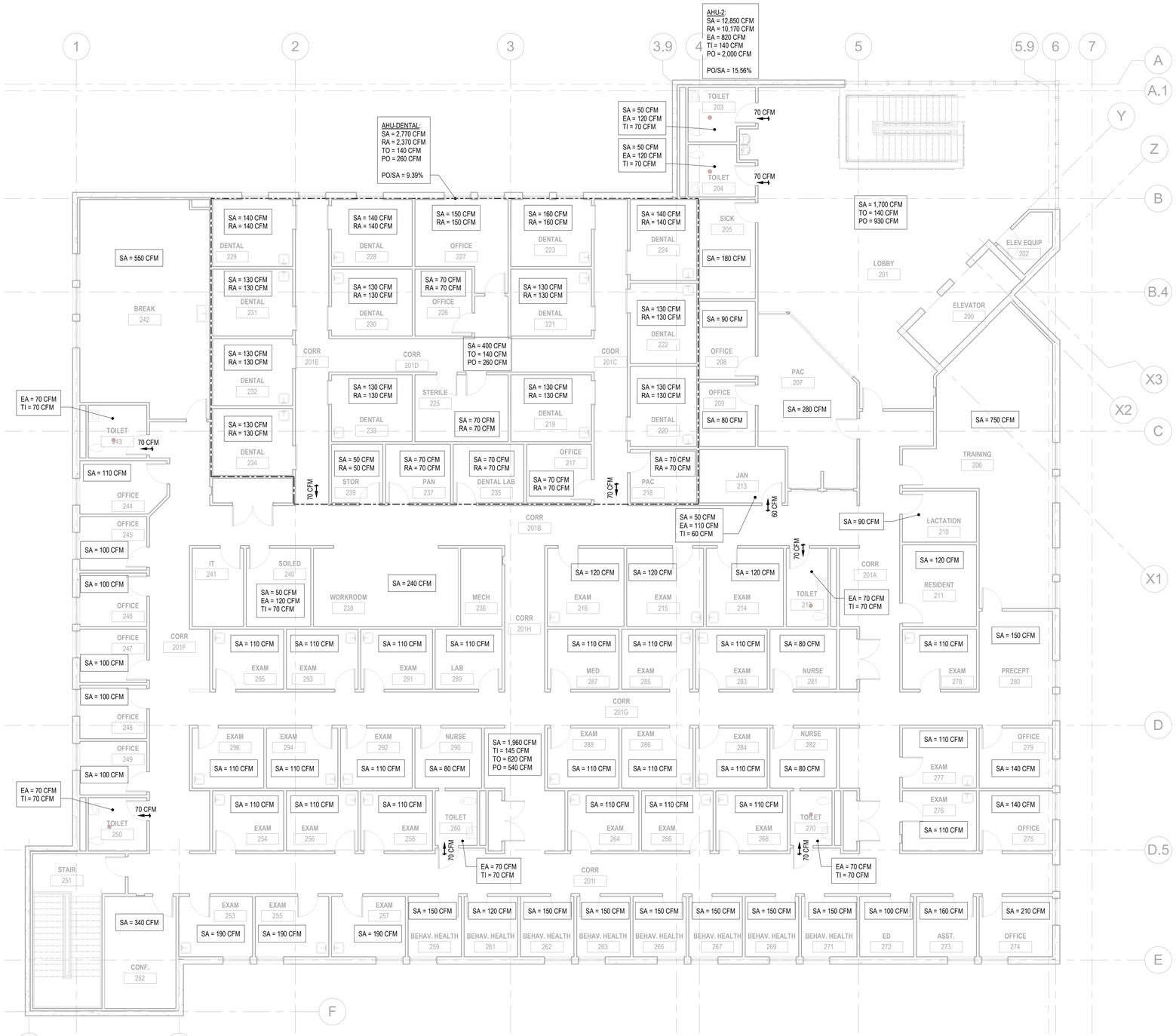

1 **SECOND FLOOR - AIR BALANCE**
M302 SCALE: 1/8" = 1'-0"

SECOND FLOOR SPACE SCHEDULE

NUMBER	NAME	ASHRAE 170-2021 TABLE 8-2 CLASSIFICATION	MIN TOTAL ACH	ACTUAL ACH	PRESSURIZATION
200	ELEVATOR	N/A	0	N/A	NR
201	LOBBY	N/A	0	6.01	NR
201A	CORR	N/A	0	3.26	NR
201B	CORR	N/A	0	3.26	NR
201C	COOR	N/A	0	3.26	NR
201D	CORR	N/A	0	3.26	NR
201E	CORR	N/A	0	3.26	NR
201F	CORR	N/A	0	3.26	NR
201G	CORR	N/A	0	3.26	NR
201H	CORR	N/A	0	3.26	NR
201I	CORR	N/A	0	3.26	NR
202	ELEV EQUIP	N/A	0	N/A	NR
203	TOILET	TOILET ROOM	4	4.00	NEG
204	TOILET	TOILET ROOM	4	4.72	NEG
205	SICK	N/A	0	8.24	NR
206	TRAINING	PHYSICAL THERAPY EXERCISE AREA	3	6.05	NR
207	PAC	N/A	0	4.95	NR
208	OFFICE	N/A	0	4.66	NR
209	OFFICE	N/A	0	4.83	NR
210	LACTATION	N/A	0	4.40	NR
211	RESIDENT	N/A	0	4.23	NR
212	TOILET	TOILET ROOM	4	4.42	NEG
213	JAN	ENVIRONMENTAL SERVICES ROOM	6	6.06	NEG
214	EXAM	GENERAL EXAMINATION ROOM	2	5.16	NR
215	EXAM	GENERAL EXAMINATION ROOM	2	5.16	NR
216	EXAM	GENERAL EXAMINATION ROOM	2	5.20	NR
217	OFFICE	N/A	0	4.62	NR
218	PAC	N/A	0	4.88	NR
219	DENTAL	DENTAL TREATMENT	3	6.14	NR
220	DENTAL	DENTAL TREATMENT	3	6.14	NR
221	DENTAL	DENTAL TREATMENT	3	6.14	NR
222	DENTAL	DENTAL TREATMENT	3	6.14	NR
223	DENTAL	DENTAL TREATMENT	3	7.33	NR
224	DENTAL	DENTAL TREATMENT	3	6.00	NR
225	STERILE	N/A	0	2.88	NR
226	OFFICE	N/A	0	4.57	NR
227	OFFICE	N/A	0	5.17	NR
228	DENTAL	DENTAL TREATMENT	3	5.95	NR
229	DENTAL	DENTAL TREATMENT	3	5.91	NR
230	DENTAL	DENTAL TREATMENT	3	6.14	NR
231	DENTAL	DENTAL TREATMENT	3	6.09	NR
232	DENTAL	DENTAL TREATMENT	3	6.09	NR
233	DENTAL	DENTAL TREATMENT	3	6.14	NR
234	DENTAL	DENTAL TREATMENT	3	6.14	NR
235	DENTAL LAB	OTHER DENTAL TREATMENT AREAS	3	4.24	NR
236	MECH	N/A	0	N/A	NR
237	PAN	N/A	0	4.67	NR
238	WORKROOM	N/A	0	4.37	NR
239	STOR	N/A	0	4.11	NR
240	SOILED	SOILED HOLDING	6	6.00	NEG
241	IT	N/A	0	N/A	NR
242	BREAK	N/A	0	5.15	NR
243	TOILET	TOILET ROOM	4	4.72	NEG
244	OFFICE	N/A	0	6.06	NR
245	OFFICE	N/A	0	6.74	NR
246	OFFICE	N/A	0	6.82	NR
247	OFFICE	N/A	0	6.74	NR
248	OFFICE	N/A	0	6.74	NR
249	OFFICE	N/A	0	6.59	NR
250	TOILET	TOILET ROOM	4	4.83	NEG
251	STAIR	N/A	0	N/A	NR
252	CONF.	N/A	0	10.46	NR
253	EXAM	GENERAL EXAMINATION ROOM	2	10.36	NR
254	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
255	EXAM	GENERAL EXAMINATION ROOM	2	10.27	NR
256	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
257	EXAM	GENERAL EXAMINATION ROOM	2	10.27	NR
258	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
259	BEHAV. HEALTH	N/A	0	11.11	NR
260	TOILET	TOILET ROOM	4	6.18	NEG
261	BEHAV. HEALTH	N/A	0	8.78	NR
262	BEHAV. HEALTH	N/A	0	11.11	NR
263	BEHAV. HEALTH	N/A	0	10.98	NR
264	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
265	BEHAV. HEALTH	N/A	0	11.25	NR
266	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
267	BEHAV. HEALTH	N/A	0	10.98	NR
268	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
269	BEHAV. HEALTH	N/A	0	10.98	NR
270	TOILET	TOILET ROOM	4	6.18	NEG
271	BEHAV. HEALTH	N/A	0	10.59	NR
272	ED	N/A	0	7.23	NR
273	ASST.	N/A	0	10.67	NR
274	OFFICE	N/A	0	10.96	NR
275	OFFICE	N/A	0	7.64	NR
276	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
277	EXAM	GENERAL EXAMINATION ROOM	2	6.92	NR
278	EXAM	GENERAL EXAMINATION ROOM	2	6.98	NR
279	OFFICE	N/A	0	7.71	NR
280	PRECEPT	N/A	0	6.38	NR
281	NURSE	N/A	0	4.95	NR
282	NURSE	N/A	0	4.95	NR
283	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
284	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
285	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
286	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
287	MED	MEDICATION ROOM	2	5.29	NR
288	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
289	LAB	LABORATORY WORK ROOM	3	6.80	NR
290	NURSE	N/A	0	4.95	NR
291	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
292	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
293	EXAM	GENERAL EXAMINATION ROOM	2	7.19	NR
294	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR
295	EXAM	GENERAL EXAMINATION ROOM	2	7.26	NR
296	EXAM	GENERAL EXAMINATION ROOM	2	7.12	NR

NOTE: OUTSIDE AIR CALCULATIONS COMPLETED
V/A AIR-CLASS DESIGN OPTION

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403
910.791.8016
WWW.DSAENG.COM

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

AIR BALANCE LEVEL 2

ISSUE BLOCK

Mark	Date	Description

PROJECT NO: 2023038.00
DATE: 04/12/2024
SCALE: 1/8" = 1'-0"
DRAWN BY: TLC PROJ MGR: BAS

M302

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SEQUENCE OF OPERATIONS: VARIABLE AIR VOLUME RTU

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE UNIT CONTROLLER SHALL CONTROL THE SUPPLY FAN SPEED TO MAINTAIN THE CURRENT DUCT STATIC PRESSURE SETPOINT (ADJ.).THE DX COOLING AND ELECTRIC HEAT SHALL STAGE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE SETPOINT.

UNOCCUPIED MODE:
WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE ELECTRIC HEAT SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE ELECTRIC HEAT SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE DX COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

OPTIMAL START:
THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE:
DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE AVERAGE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:
DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE AVERAGE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:
THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

OCCUPIED BYPASS:
THE BAS SHALL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSORS. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

ECONOMIZER:
THE SUPPLY AIR SENSOR SHALL MEASURES THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETTING. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.

REFERENCE DRY BULB:
OUTSIDE AIR (OA) TEMPERATURE SHALL COMPARED WITH A REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL ENABLE WHEN THE OA TEMPERATURE IS LESS THAN REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL BE DISABLED WHEN OA TEMPERATURE IS GREATER THAN REFERENCE DRY BULB SETPOINT + 5.0 DEG. F.

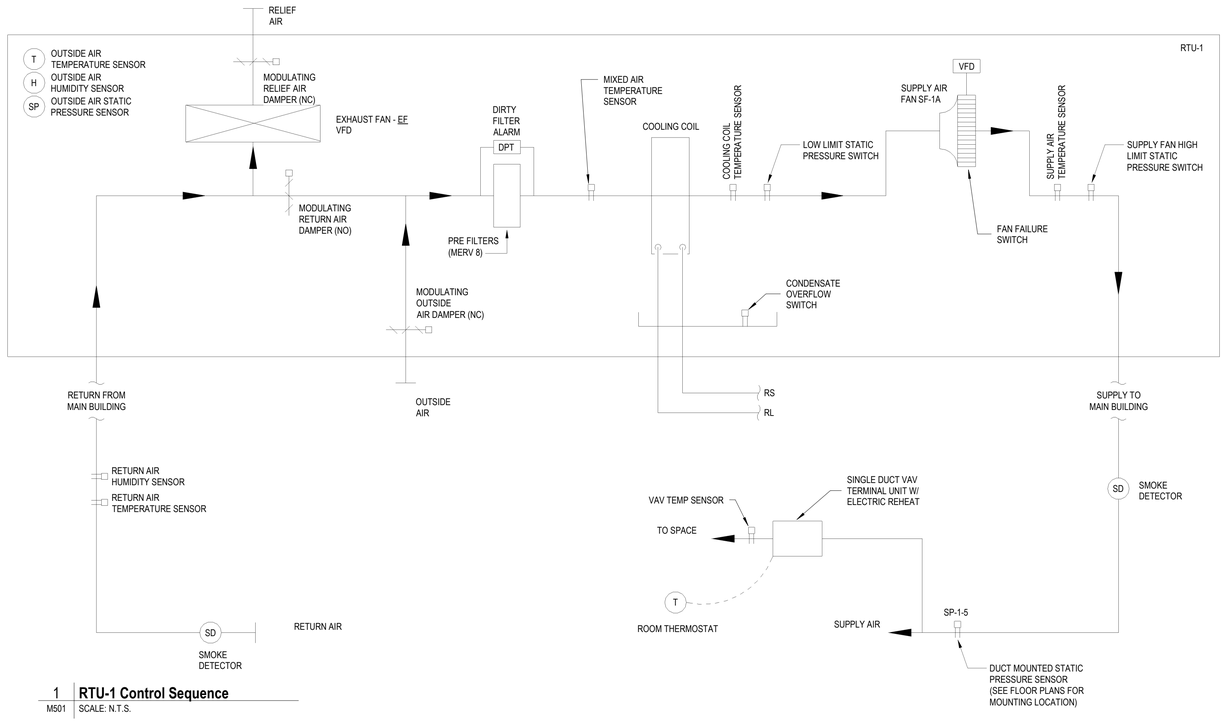
SUPPLY FAN:
THE SUPPLY FAN SHALL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FAN. IF THE SWITCH DOES NOT OPEN WITHIN 40 SECONDS AFTER A REQUEST FOR FAN OPERATION A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE BAS, THE UNIT SHALL STOP, REQUIRING A MANUAL RESET.

SUPPLY DUCT STATIC PRESSURE CONTROL:
THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN OUTPUT AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. IF THE DUCT STATIC PRESSURE FALLS BELOW THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL INCREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT. IF THE DUCT STATIC PRESSURE RISES ABOVE THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL DECREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT.

IF FOR ANY REASON THE SUPPLY AIR PRESSURE EXCEEDS THE FIXED SUPPLY AIR PRESSURE LIMIT OF 3.5 INCHES OF W.C. THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES. IF THE OVERPRESSURIZATION CONDITION OCCURS ON THE FOURTH RESTART, THE UNIT SHALL SHUT DOWN AND A MANUAL RESET DIAGNOSTIC IS DISPLAYED AT THE REMOTE PANEL AND/OR THE BAS SYSTEM.

BUILDING PRESSURE CONTROL:
EXHAUST FANS IN RELIEF DUCT SHALL ENGAGE AS NECESSARY TO MAINTAIN SLIGHTLY POSITIVE BUILDING PRESSURE SETPOINT THAT IS ADJUSTABLE.

FILTER STATUS:
A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.



1 **RTU-1 Control Sequence**
M501 SCALE: N.T.S.

TRAIN TRACER SC BUILDING AUTOMATION SYSTEM

THE CONTROLS CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING DDC CONTROL SYSTEM TO COMPLY WITH THE FOLLOWING SPECIFICATION. BASIS OF DESIGN IS TRANE TRACER SC SYSTEM. PROVIDE A GLOBAL CONTROL SYSTEM THAT CAN COMMUNICATE WITH ALL HVAC EQUIPMENT. THE SYSTEM SHALL BE VIEWABLE AND EDITABLE FROM A COMPUTER USING INTERNET WEB BROWSER COMMUNICATING EITHER DIRECTLY OR REMOTELY WITH THE BAS MAIN CONTROL PANEL. THE CONTROL SYSTEM SHALL BE PROVIDED BY THE HVAC EQUIPMENT MANUFACTURER.

GENERAL SYSTEM REQUIREMENTS:

A. DIRECT DIGITAL CONTROL (DDC) TECHNOLOGY SHALL BE USED TO PROVIDE THE FUNCTIONS NECESSARY FOR CONTROL OF ALL MECHANICAL SYSTEMS.

B. THE CONTROL SYSTEM SHALL BE DESIGNED SUCH THAT IN THE EVENT OF A NETWORK COMMUNICATION FAILURE, OR THE LOSS OF ANY OTHER CONTROLLER, THE CONTROL SYSTEM SHALL CONTINUE TO INDEPENDENTLY OPERATE UNDER CONTROL.

C. OWNER SHALL PROVIDE WAN/LAN CONNECTION TO THE BUILDING AUTOMATION SYSTEM FOR REMOTE ACCESS.

D. UNIT LEVEL CONTROLLERS SHALL USE BACNET MS/TP PROTOCOL. CONTROLLERS SHALL BE BACNET BTL CERTIFIED.

E. THE SYSTEM MUST BE PROVIDED, INSTALLED, WIRED, AND PROGRAMMED BY THE EQUIPMENT MANUFACTURER'S LOCAL FACTORY OFFICE. BIDS BY WHOLESALERS, CONTRACTORS, FRANCHISED DEALERS, OR ANY OTHER FIRM WHO'S PRINCIPLE BUSINESS IS NOT THAT OF MANUFACTURING AND INSTALLING HVAC EQUIPMENT AND BUILDING AUTOMATION SYSTEMS IS NOT ACCEPTABLE.

F. PROVIDE ONE YEAR PARTS AND LABOR WARRANTY OF THE BAS.

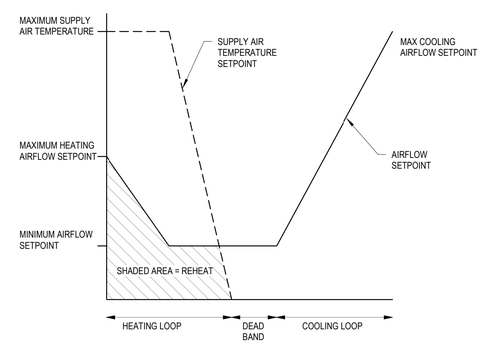
G. PROVIDE 16 HOURS OF OWNER'S TRAINING AT JOBSITE ON THE BUILDING.

SEQUENCE OF OPERATION: SINGLE DUCT VAV TERMINAL W/ ELECTRICAL REHEAT COIL

A. OCCUPIED-UNOCCUPIED OPERATION: THE BAS BUILDING SCHEDULE WILL DETERMINE SYSTEM OCCUPANCY. WHEN THE SYSTEM IS IN THE "OCCUPIED" MODE, THE VAV CONTROLLER WILL OPERATE WITH THE OCCUPIED TEMPERATURE AND AIRFLOW SETPOINTS. IN THE "UNOCCUPIED" MODE, THE CONTROLLER WILL MAINTAIN UNOCCUPIED TEMPERATURE AND AIRFLOW SETPOINTS.

B. TERMINAL UNIT TEMPERATURE CONTROL: THE VAV CONTROLLER WILL OPERATE THE TERMINAL BOX DAMPER, AND ELECTRIC REHEAT COIL IN SEQUENCE, TO MAINTAIN THE COOLING AND HEATING REQUIREMENTS OF THE SPACE SENSOR. WHENEVER THE UNIT IS OPERATING IN "HEATING" MODE, THE ELECTRIC REHEAT COIL WILL MODULATE TO MAINTAIN SPACE TEMPERATURE, AND THE BOX DAMPER WILL VARY AS NEEDED BETWEEN MINIMUM AND MAXIMUM HEATING AIRFLOW POSITION. IN "COOLING" MODE, THE AIRFLOW SETTING WILL VARY AS NEEDED BETWEEN MAXIMUM AND MINIMUM COOLING AIRFLOW TO MAINTAIN SPACE TEMPERATURE.

C. RUN CONDITIONS- SCHEDULED WITH CORRESPONDING AHU
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED COOLING SETPOINT= 75°F (ADJ)
- OCCUPIED HEATING SETPOINT= 70°F (ADJ)
- UNOCCUPIED COOLING SETPOINT= 85°F (ADJ)
- UNOCCUPIED HEATING SETPOINT= 55°F (ADJ)



BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING
DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

MECHANICAL CONTROLS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	04/12/2024
SCALE:	12" = 1'-0"
DRAWN BY:Author	PROJ MGR:Checker

M501

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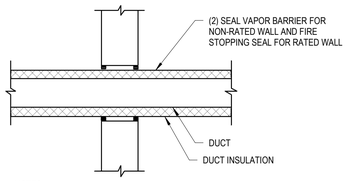
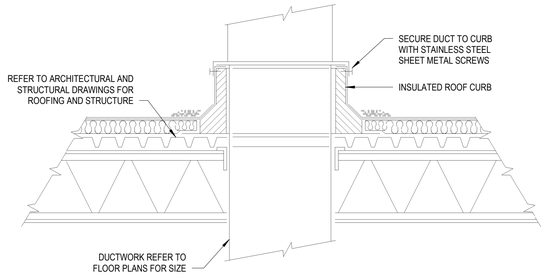


NOTES:

1. THIS DETAIL APPLIES FOR INSULATED DUCTS THRU WALL WHERE FIRE DAMPER IS NOT REQUIRED.
2. WHERE WALL IS FIRE RATED, REFER TO UL DETAILS.

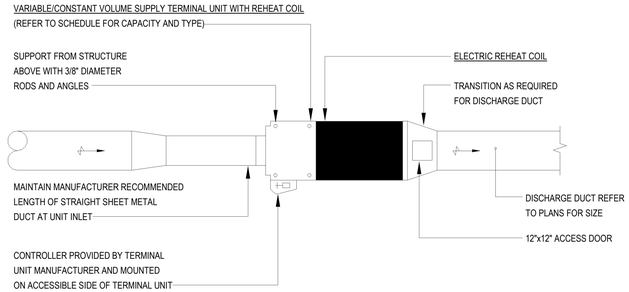
1 DUCT PENETRATION THRU INTERRIOR WALL DETAIL

M601 SCALE: N.T.S.



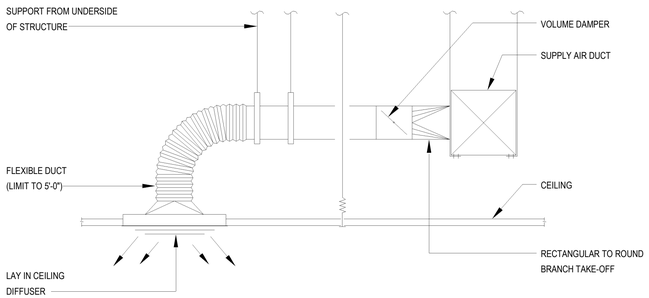
2 DUCT ROOF PENETRATIONS DETAIL

M601 SCALE: N.T.S.



3 TERMINAL REHEAT UNIT DETAIL

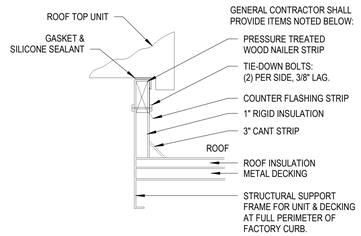
M601 SCALE: N.T.S.



NOTE: MAXIMUM SAG 1/2" PER FOOT.

4 DETAIL - CEILING DIFFUSER BRANCH DUCT DETAIL

M601 SCALE: N.T.S.

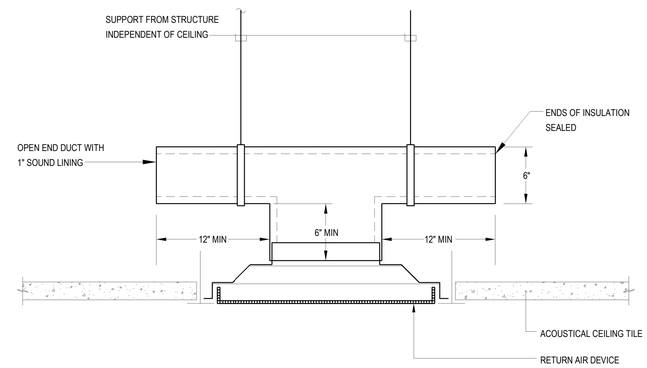


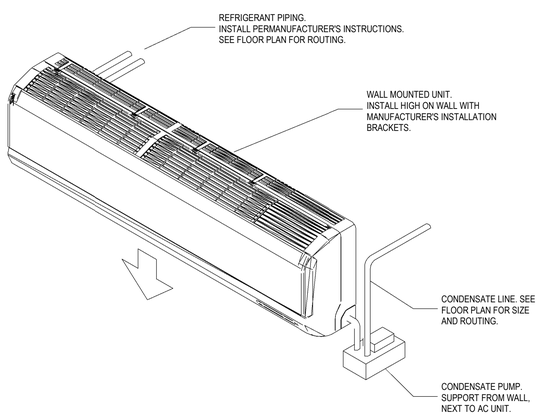
NOTES:

1. MECHANICAL CONTRACTOR SHALL FURNISH ROOF OPENING SIZES AND LOCATIONS FOR STRUCTURAL SUPPORT FRAMING BY GENERAL CONTRACTOR.
2. THIS CURB DETAIL WILL ALLOW THE UNIT TO SLOPE WITH THE SLOPE OF THE ROOF PITCH. THIS DETAIL CAN ONLY BE USED (A) IF THE CONDENSATE DRAIN PAN OUTLET IS ON THE LOW SIDE OF THE UNIT, OR (B) IF THE CONDENSATE DRAIN PAN IS NOT AFFECTED BY SLOPE. THIS DETAIL CANNOT BE USED IF THE CONDENSATE DRAIN CONNECTION IS ON THE HIGH SIDE OF THE UNIT.

5 RTU CURB DETAIL

M601 SCALE: N.T.S.

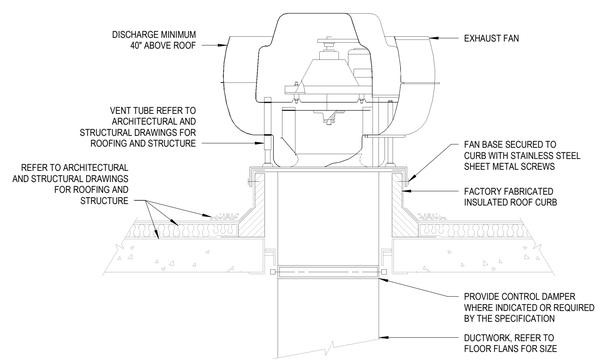




NOTE:
CONDENSATE PUMP SHALL BE OMITTED IF THE UNIT IS PROVIDED WITH BUILD-IN CONDENSATE PUMP (BY MANUFACTURER).

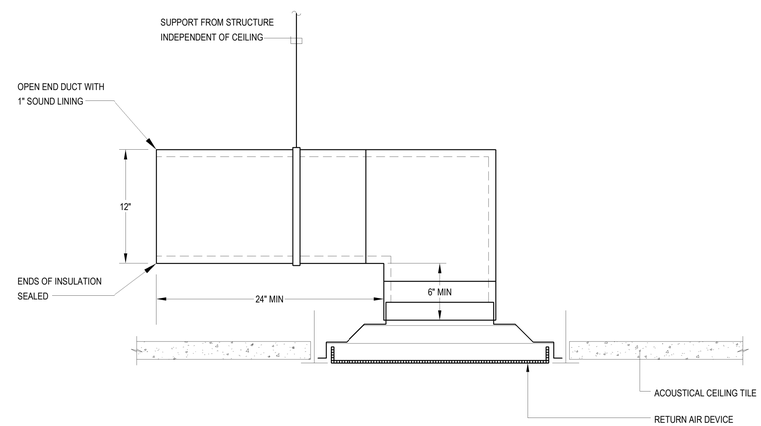
6 DX WALL MOUNTED UNIT DETAIL

M601 SCALE: 12" = 1'-0"



7 ROOF MOUNT EXHAUST FAN DETAIL

M601 SCALE: N.T.S.



NOTES:

1. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

8 DETAIL - NON-DUCTED RETURN AIR REGISTER

M601 SCALE: 12" = 1'-0"

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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309 S Governors Ave
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302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

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ISSUED: XX/XX/XX

SHEET TITLE

MECHANICAL DETAILS

ISSUE BLOCK

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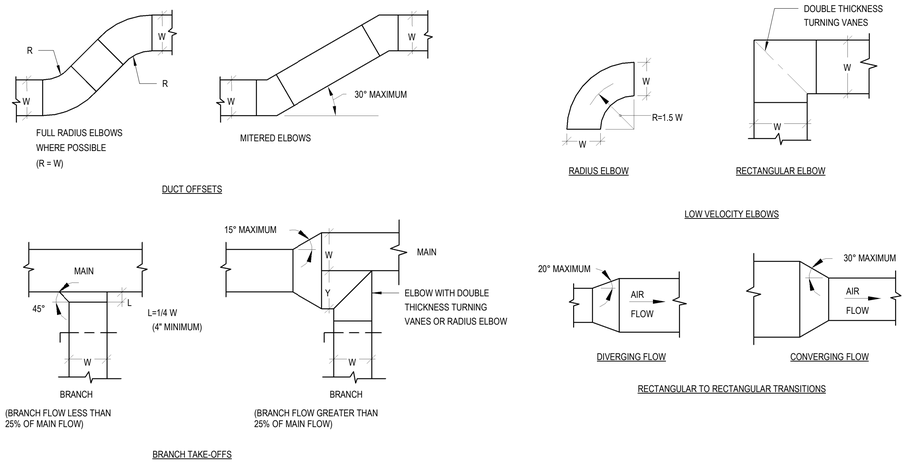
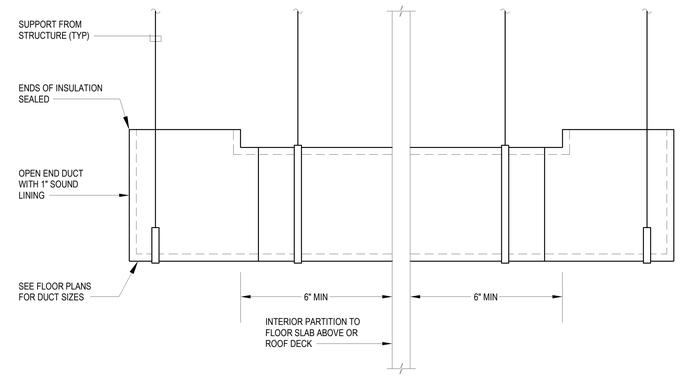


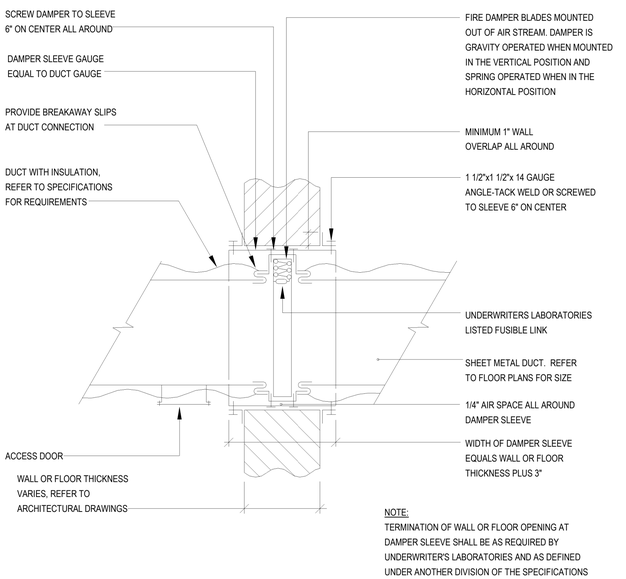
1 DETAIL - RECTANGULAR DUCT FITTINGS

M602 SCALE: N.T.S.



2 DETAIL - TRANSFER DUCT

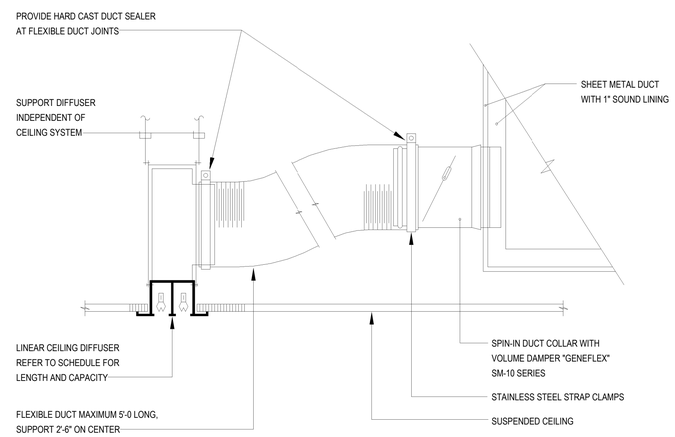
M602 SCALE: N.T.S.



NOTE:
TERMINATION OF WALL OR FLOOR OPENING AT DAMPER SLEEVE SHALL BE AS REQUIRED BY UNDERWRITER'S LABORATORIES AND AS DEFINED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS

3 FIRE DAMPER INSTALLATION DETAIL

M602 SCALE: N.T.S.

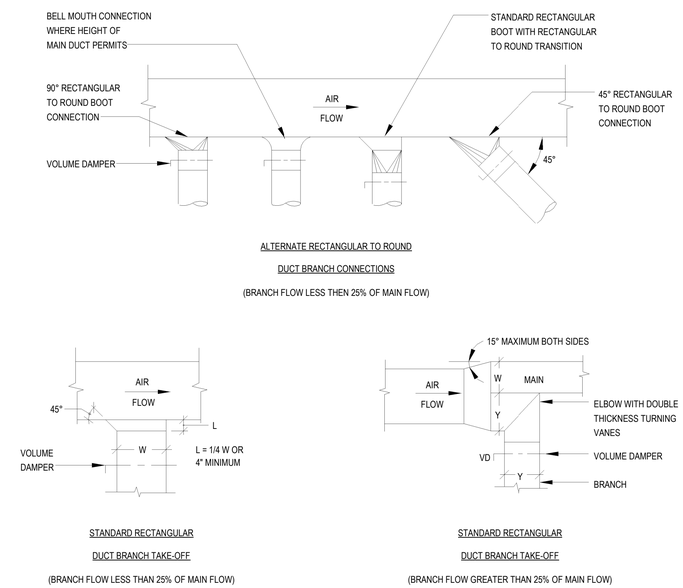


NOTES:

1. DUCT INSTALLATION SHALL BE PROVIDED AS SPECIFIED.
   PROVIDE ADDITIONAL ROUND, RIGID SHEET METAL DUCTWORK
2. AS REQUIRED TO LIMIT FLEXIBLE DUCT LENGTH TO 5'-0" MAXIMUM.

4 LINEAR SLOT DIFFUSER INSTALLATION DETAIL

M602 SCALE: N.T.S.



5 LOW VELOCITY BRANCH TAKE-OFF DETAIL

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BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

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SHEET TITLE

MECHANICAL DETAILS

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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AIR DEVICE SCHEDULE

DESIGNATION	SERVICE	TYPE	AIRFLOW (CFM) MIN	AIRFLOW (CFM) MAX	FACE SIZE	NECK SIZE	THROW PATTERN	THROW (FT)	MAX APD (IN WC)	MAX NOISE CRITERIA (NC)	BASIS OF DESIGN (MANUFACTURER - MODEL)	NOTES
A1	SUPPLY	SQUARE CONE	0	115	24" x 24"	6"Ø	4 - WAY	2 - 3 - 5	0.05	15	PRICE - SCD / SCDAS / ASCD	1,2,3,4,5,6
A2	SUPPLY	SQUARE CONE	116	200	24" x 24"	8"Ø	4 - WAY	2 - 4 - 7	0.05	15	PRICE - SCD / SCDAS / ASCD	1,2,3,4,5,6
A3	SUPPLY	SQUARE CONE	201	325	24" x 24"	10"Ø	4 - WAY	3 - 5 - 9	0.05	15	PRICE - SCD / SCDAS / ASCD	1,2,3,4,5,6
A4	SUPPLY	SQUARE CONE	326	475	24" x 24"	12"Ø	4 - WAY	4 - 6 - 11	0.05	15	PRICE - SCD / SCDAS / ASCD	1,2,3,4,5,6
A5	SUPPLY	SQUARE CONE	476	625	24" x 24"	14"Ø	4 - WAY	5 - 7 - 13	0.05	15	PRICE - SCD / SCDAS / ASCD	1,2,3,4,5,6
.	.	.	.	.	.	.	.	.	.	.	.	.
E1	SUPPLY	STEEL LOUVERED GRILLE	0	150	14" x 14"	12" X 12"	4 - WAY	10-14-22	-	20	PRICE 500	2,4
.	.	.	.	.	.	.	.	.	.	.	.	.
I1	SUPPLY	LINEAR SLOT	0	150	(2) 3/4" SLOTS x 48"	8"Ø	ADJUSTABLE	14 (V)	0.10	20	PRICE - SDS / SDB	1,2,3,7,8
.	.	.	.	.	.	.	.	.	.	.	.	.
T1	RETURN / EXHAUST	PERFORATED	0	100	24" x 12"	6"Ø	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T2	RETURN / EXHAUST	PERFORATED	0	460	24" x 12"	18" x 6"	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T3	RETURN / EXHAUST	PERFORATED	0	100	24" x 24"	6"Ø	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T4	RETURN / EXHAUST	PERFORATED	101	210	24" x 24"	8"Ø	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T5	RETURN / EXHAUST	PERFORATED	211	380	24" x 24"	10"Ø	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T6	RETURN / EXHAUST	PERFORATED	381	620	24" x 24"	12"Ø	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
T7	RETURN / EXHAUST	PERFORATED	621	1,350	24" x 24"	18" x 18"	N/A	N/A	0.05	15	PRICE - PDDR	1,2,3
.	.	.	.	.	.	.	.	.	.	.	.	.

NOTES:

1. ACCEPTABLE ALTERNATE MANUFACTURERS: KRUEGER, METALAIRE, NAILOR, TITUS, TUTTLE & BAILEY.
2. UNLESS OTHERWISE NOTED IN FLOOR PLANS, RUNOUT SIZE TO BE EQUAL TO NECK SIZE.
3. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND MOUNTING DETAILS.
4. PROVIDE WITH MANUFACTURER'S STANDARD WHITE FINISH.
5. PROVIDE WITH MINIMUM R6 INSULATED BACKPAN.
6. PROVIDE WITH ALL ALUMINUM CONSTRUCTION WITHIN RESTROOM AREAS.
7. PROVIDE DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO THE LONG DIMENSION.
8. PROVIDE WITH MANUFACTURER'S INSULATED, RECTANGULAR SUPPLY AIR PLENUM.

GENERAL EXHAUST FAN SCHEDULE

DESIGNATION	TYPE	CFM	ESP	APPROX RPM	BHP	HP (MOTOR SIZE)	DRIVE	V/Ø/HZ	APPROX WEIGHT (LBS)	SONES	BASIS	REMARKS
EF-1	CENTRIFUGAL	925	0.5	1563	0.16	0.25	DIRECT	120/1/60	46	7.9	GREENHECK G-100-VG	

SPLIT SYSTEM SCHEDULE

DESIGNATION	LOCATION	TYPE	MOUNTING	AIRFLOW (CFM)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	SEER	AMBIENT TEMP RATING (°F)	MCA	MOCP	ELECTRICAL (V/Ø/HZ)	BASIS OF DESIGN	NOTES
CU1/SS-1	185 - IT	SINGLE	HORIZ CABINET	400	12	NA	21.0	95	11	28	208/1/60	MISTUBISHI - PKA/PUY	1,2,3,4,5
CU2/SS-2	202 - ELEV. EQUIP.	SINGLE	HORIZ CABINET	400	12	NA	21.0	95	11	28	208/1/60	MISTUBISHI - PKA/PUY	1,2,3,4,5
CU3/SS-3	241 - IT	SINGLE	HORIZ CABINET	400	12	NA	21.0	95	11	28	208/1/60	MISTUBISHI - PKA/PUY	1,2,3,4,5

NOTES:

1. SIZE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFATURER'S WRITTEN INSTRUCTIONS BASED ON THE PROJECT SPECIFIC LAYOUT AND LENGTH OF REFRIGERANT PIPING. REFER TO SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2. INDOOR UNIT POWERED BY OUTDOOR UNIT.
3. PROVIDE CONTROLS AND THERMOSTATS INCLUDING OPERATION MODES, BACKLIT DISPLAY, FAN SPEED, AIRFLOW AND DIRECTION SETTINGS, AND 7 DAY/24 HOUR SCHEDULE CAPABILITIES.
4. PROVIDE EQUIPENT STAND FOR ROOF MOUNTING THE OUTDOOR CONDENSING UNIT.
5. PROVIDE WITH 230V CONDENSATE PUMP RATED FOR A MAXIMUM DISCHARGE OF 1 GPH AT 33 FT HEAD. CONDENSATE PUMP SHALL BE FIELD-WIRED FOR POWER FROM INDOOR UNIT.

ELECTRIC UNIT HEATER SCHEDULE

DESIGNATION	SERVICE	MOUNTING	POWER (kW)	CURRENT (A)	ELECTRICAL (V / Ø /Hz)	BASIS OF DEISGN	NOTES
UH-1	RISER ROOM	WALL	500	4.2	120 / 1 / 60	QMARK CWH1101DSAF	1, 2, 3
UH-2	STAIRS	WALL	1000	8.4	120 / 1 / 60	QMARK CWH1101DSAF	1, 2, 3

NOTES:

1. UNIT SHALL BE LISTED.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE WITH DISCONNECT SWITCH, MANUFACTURER'S SURFACE MOUNTING FRAME, AND INTEGRAL THERMOSTAT.

ROOFTOP UNIT SCHEDULE

SYMBOL	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	SYSTEM TYPE	COOLING (AHRI STANDARD) TOTAL (MBH)	COOLING (AHRI STANDARD) SENSIBLE (MBH)	COOLING (AHRI STANDARD) EFFICIENCY	AUXILARY HEATER ELECTRIC (KW)	EVAPORATOR FAN SUPPLY AIRFLOW (CFM)	EVAPORATOR FAN OUTSIDE AIRFLOW (CFM)	EVAPORATOR FAN ESP (IN. WG.)	EVAPORATOR FAN HP	EVAPORATOR FAN BHP	ELECTRICAL POWER SUPPLY (V/PH/HZ)	ELECTRICAL MCA	ELECTRICAL MOCP	WEIGHT (LBS.)	NOTES
RTU-1	TRANE	SXHPF50	COOLING ONLY / EXTENDED CASING	565.05	345.06	11.0	-	14,750	2,940	2.623	15	10.81	460/3/60	127	150	8802	SEE BELOW
RTU-2	TRANE	SXHPF50	COOLING ONLY / EXTENDED CASING	555.70	330.40	11.0	-	12,850	2,570	2.433	10	8.98	460/3/60	122	150	8802	SEE BELOW
RTU-DENTAL	TRANE	OAD/N REV6 - OADG/OANG	ELECTRIC HEAT	174.1	81.7	12.1	24	2,770	1,700	1.49	1.5	0.92	460/3/60	41.9	45	3212	SEE BELOW

NOTES:

1. PROVIDE NOISE REDUCTION ROOF CURB AND MOUNT TO CONCRETE DECK ON ROOF. BASIS OF DESIGN ROOF CURB: HUSHCORE PLUS HSIC-DS-53 ACOUSTIC CURB.

SUPPLY VAV SCHEDULE W/ ELECTRIC REHEAT

DESIGNATION	AHU	AIRFLOW (CFM) COOLING	AIRFLOW (CFM) HEATING	AIRFLOW (CFM) MINIMUM	UNIT SIZE	MAX NC	V/Φ/HZ	HEATING COIL PERFORMANCE CAPACITY (kW)	HEATING COIL PERFORMANCE EAT(°F)	HEATING COIL PERFORMANCE LAT(°F)	BASIS OF DESIGN	REMARKS
VAV-100	AHU-1	1340 CFM	670 CFM	440 CFM	12	-	480/1/60	7.4	55	90	PRICE SDV	1
VAV-104	AHU-1	730 CFM	590 CFM	590 CFM	10	-	480/1/60	6.5	55	90	PRICE SDV	1
VAV-105	AHU-1	340 CFM	130 CFM	130 CFM	6	20	277/1/60	1.4	55	90	PRICE SDV	1
VAV-106	AHU-1	290 CFM	240 CFM	120 CFM	6	21	277/1/60	2.7	55	90	PRICE SDV	1
VAV-112	AHU-1	550 CFM	390 CFM	380 CFM	8	-	480/1/60	4.3	55	90	PRICE SDV	1
VAV-114	AHU-1	930 CFM	650 CFM	650 CFM	10	-	480/1/60	7.2	55	90	PRICE SDV	1
VAV-118	AHU-1	950 CFM	370 CFM	370 CFM	10	-	277/1/60	4.1	55	90	PRICE SDV	1
VAV-119	AHU-1	350 CFM	200 CFM	110 CFM	6	20	277/1/60	2.2	55	90	PRICE SDV	1
VAV-121	AHU-1	890 CFM	400 CFM	400 CFM	10	-	277/1/60	4.4	55	90	PRICE SDV	1
VAV-125	AHU-1	540 CFM	380 CFM	380 CFM	8	-	277/1/60	4.2	55	90	PRICE SDV	1
VAV-126	AHU-1	640 CFM	230 CFM	230 CFM	8	20	277/1/60	2.5	55	90	PRICE SDV	1
VAV-130	AHU-1	340 CFM	240 CFM	70 CFM	6	20	277/1/60	2.7	55	90	PRICE SDV	1
VAV-134	AHU-1	500 CFM	250 CFM	140 CFM	8	-	277/1/60	2.8	55	90	PRICE SDV	1
VAV-140	AHU-1	480 CFM	240 CFM	140 CFM	8	-	277/1/60	2.7	55	90	PRICE SDV	1
VAV-146	AHU-1	1290 CFM	900 CFM	900 CFM	12	-	480/3/60	10.0	55	90	PRICE SDV	1
VAV-147	AHU-1	510 CFM	240 CFM	240 CFM	8	-	277/1/60	2.7	55	90	PRICE SDV	1
VAV-152	AHU-1	200 CFM	100 CFM	100 CFM	6	-	277/1/60	1.1	55	90	PRICE SDV	1
VAV-155	AHU-1	330 CFM	165 CFM	90 CFM	6	-	277/1/60	1.8	55	90	PRICE SDV	1
VAV-159	AHU-1	220 CFM	130 CFM	70 CFM	6	-	277/1/60	1.4	55	90	PRICE SDV	1
VAV-161	AHU-1	330 CFM	180 CFM	90 CFM	6	-	277/1/60	2.0	55	90	PRICE SDV	1
VAV-164	AHU-1	300 CFM	150 CFM	90 CFM	6	-	277/1/60	1.7	55	90	PRICE SDV	1
VAV-167	AHU-1	1290 CFM	900 CFM	900 CFM	12	-	480/3/60	10.0	55	90	PRICE SDV	1
VAV-175	AHU-1	1410 CFM	980 CFM	980 CFM	12	-	480/3/60	10.9	55	90	PRICE SDV	1
VAV-201	AHU-2	1800 CFM	610 CFM	480 CFM	14	-	480/1/60	6.8	55	90	PRICE SDV	1
VAV-205	AHU-2	630 CFM	250 CFM	250 CFM	8	20	277/1/60	2.8	55	90	PRICE SDV	1
VAV-206	AHU-2	750 CFM	340 CFM	340 CFM	10	-	277/1/60	3.8	55	90	PRICE SDV	1
VAV-210	AHU-2	820 CFM	590 CFM	590 CFM	10	-	480/1/60	6.5	55	90	PRICE SDV	1
VAV-214	AHU-2	1240 CFM	930 CFM	930 CFM	12	-	480/3/60	10.3	55	90	PRICE SDV	1
VAV-238	AHU-2	1150 CFM	800 CFM	800 CFM	12	-	480/1/60	8.9	55	90	PRICE SDV	1
VAV-242	AHU-2	550 CFM	200 CFM	200 CFM	8	-	277/1/60	2.2	55	90	PRICE SDV	1
VAV-244	AHU-2	310 CFM	140 CFM	100 CFM	6	-	277/1/60	1.6	55	90	PRICE SDV	1
VAV-247	AHU-2	300 CFM	140 CFM	90 CFM	6	-	277/1/60	1.6	55	90	PRICE SDV	1
VAV-252	AHU-2	340 CFM	120 CFM	120 CFM	6	20	277/1/60	1.3	55	90	PRICE SDV	1
VAV-253	AHU-2	570 CFM	240 CFM	240 CFM	8	-	277/1/60	2.7	55	90	PRICE SDV	1
VAV-254	AHU-2	1160 CFM	820 CFM	820 CFM	12	-	480/1/60	9.1	55	90	PRICE SDV	1
VAV-259	AHU-2	570 CFM	170 CFM	140 CFM	8	-	277/1/60	1.9	55	90	PRICE SDV	1
VAV-264	AHU-2	880 CFM	620 CFM	620 CFM	10	-	480/1/60	6.9	55	97	PRICE SDV	1
VAV-265	AHU-2	600 CFM	180 CFM	140 CFM	8	-	277/1/60	2.0	55	90	PRICE SDV	1
VAV-272	AHU-2	470 CFM	230 CFM	140 CFM	8	-	277/1/60	2.5	55	90	PRICE SDV	1
VAV-275	AHU-2	710 CFM	430 CFM	430 CFM	10	-	480/1/60	4.8	55	90	PRICE SDV	1
VAV-217	AHU-DENTAL	590 CFM	440 CFM	440 CFM	8	-	480/1/60	4.9	55	90	PRICE SDV	1
VAV-218	AHU-DENTAL	330 CFM	200 CFM	200 CFM	6	-	277/1/60	2.2	55	90	PRICE SDV	1
VAV-221	AHU-DENTAL	330 CFM	200 CFM	200 CFM	6	-	277/1/60	2.2	55	90	PRICE SDV	1
VAV-223	AHU-DENTAL	650 CFM	360 CFM	360 CFM	8	20	277/1/60	4.0	55	90	PRICE SDV	1
VAV-228	AHU-DENTAL	480 CFM	270 CFM	270 CFM	8	-	277/1/60	3.0	55	90	PRICE SDV	1
VAV-231	AHU-DENTAL	390 CFM	230 CFM	230 CFM	6	21	277/1/60	2.5	55	90	PRICE SDV	1

NOTES:

1. ADD SCR HEAT TO ELECTRIC COIL.

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600

615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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925 N 4TH STREET
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MECHANICAL SCHEDULES

ISSUE BLOCK

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PROJECT NO: 2023038.00

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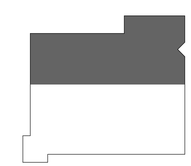
1 **PARTIAL LIGHTING PLAN - FIRST FLOOR NORTH**

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

GENERAL NOTES

1. ALL CEILING SPACES SHALL BE USED FOR ENVIRONMENTAL AIR (PLENUM). ALL DEVICES, ENLCOSURES, CONDUIT AND JUNCTION BOXES LOCATED IN CEILING SHALL BE METALIC OR RATED FOR USE IN THAT SPACE. ALL WIRING NOT ROUTED IN METAL CONDUIT OR RACEWAYS SHALL BE PLENUM RATED. REFER TO SPECIFICATIONS AND NEC 300.22(C)(1) THROUGH (3) FOR ADDITIONAL REQUIREMENTS.



KEY PLAN

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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309 S Governors Ave
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100 Discovery Boulevard, Suite 102
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302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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PARTIAL LIGHTING PLAN - FIRST FLOOR

ISSUE BLOCK

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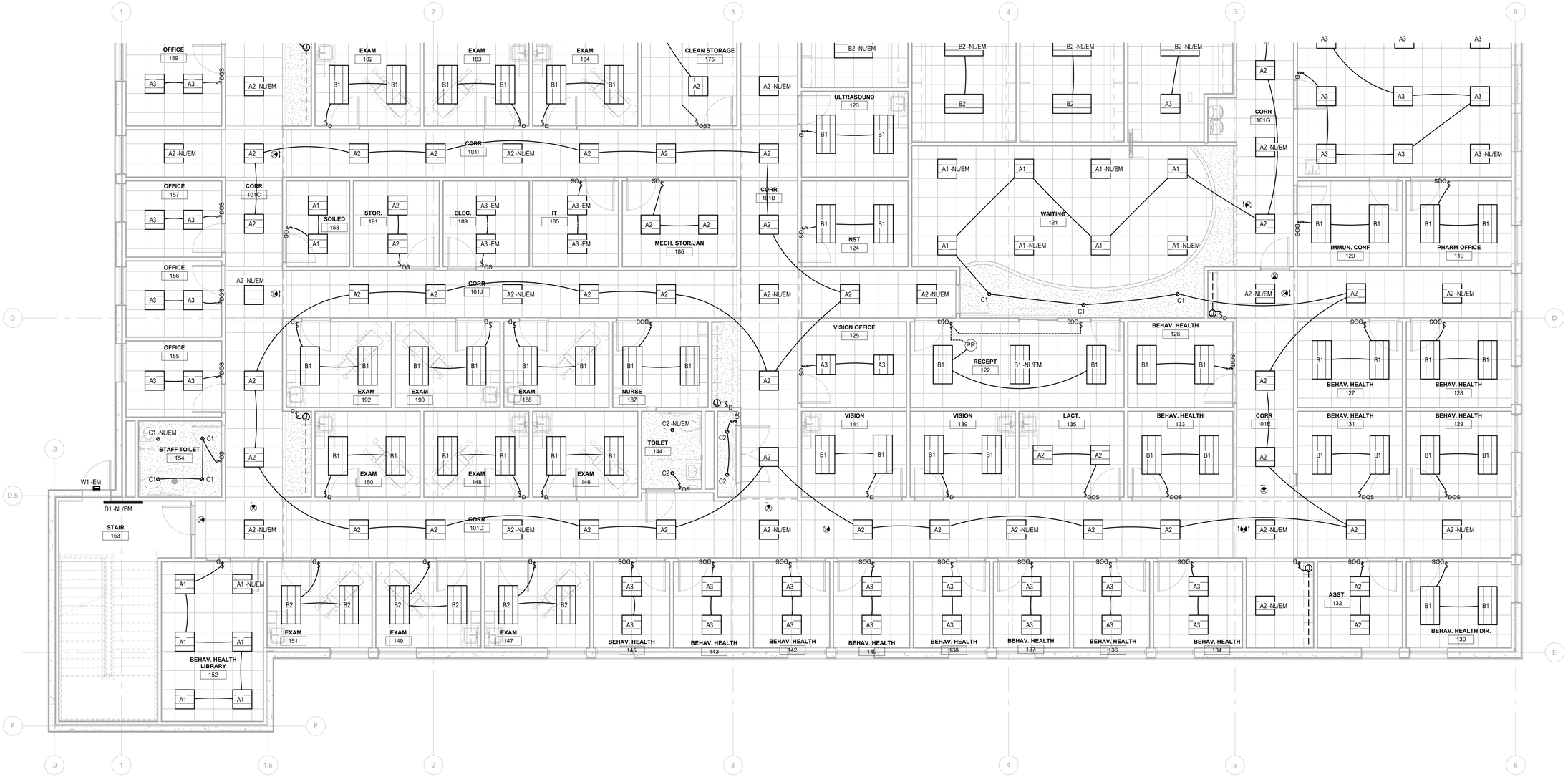

1 **PARTIAL LIGHTING PLAN - FIRST FLOOR SOUTH**

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

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KEY PLAN

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
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Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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WILMINGTON, NC 28401

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PARTIAL LIGHTING PLAN - FIRST FLOOR

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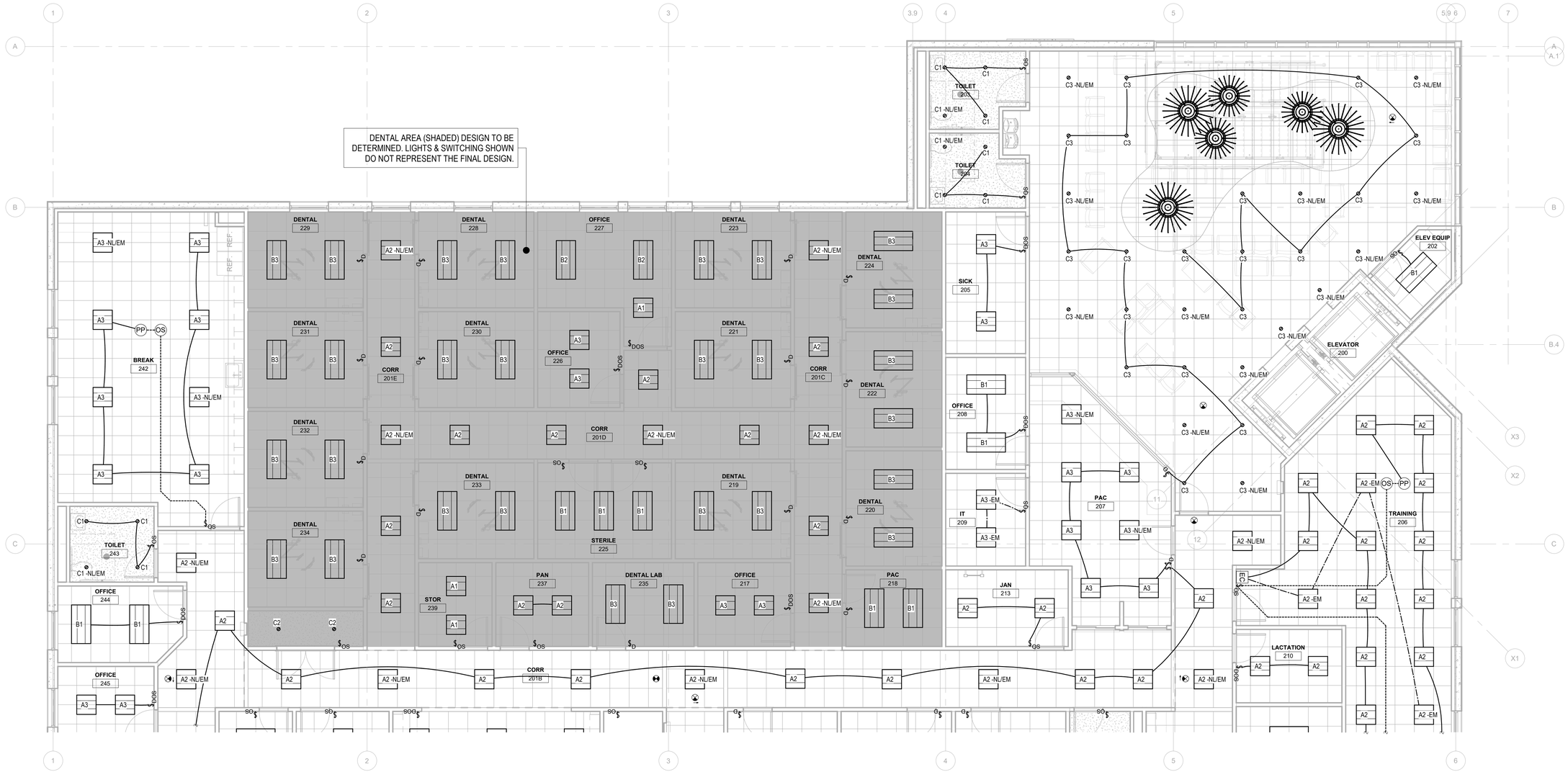
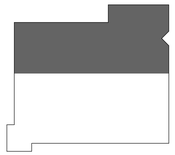


1 **PARTIAL LIGHTING PLAN - SECOND FLOOR NORTH**

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

GENERAL NOTES

1. ALL CEILING SPACES SHALL BE USED FOR ENVIRONMENTAL AIR (PLENUM). ALL DEVICES, ENLCOSURES, CONDUIT AND JUNCTION BOXES LOCATED IN CEILING SHALL BE METALIC OR RATED FOR USE IN THAT SPACE. ALL WIRING NOT ROUTED IN METAL CONDUIT OR RACEWAYS SHALL BE PLENUM RATED. REFER TO SPECIFICATIONS AND NEC 300.22(C)(1) THROUGH (3) FOR ADDITIONAL REQUIREMENTS.



KEY PLAN

BECKER MORGAN GROUP

ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

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PROJECT TITLE

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WILMINGTON, NC 28401

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ISSUED: XX/XX/XX

SHEET TITLE

PARTIAL LIGHTING PLAN - SECOND FLOOR

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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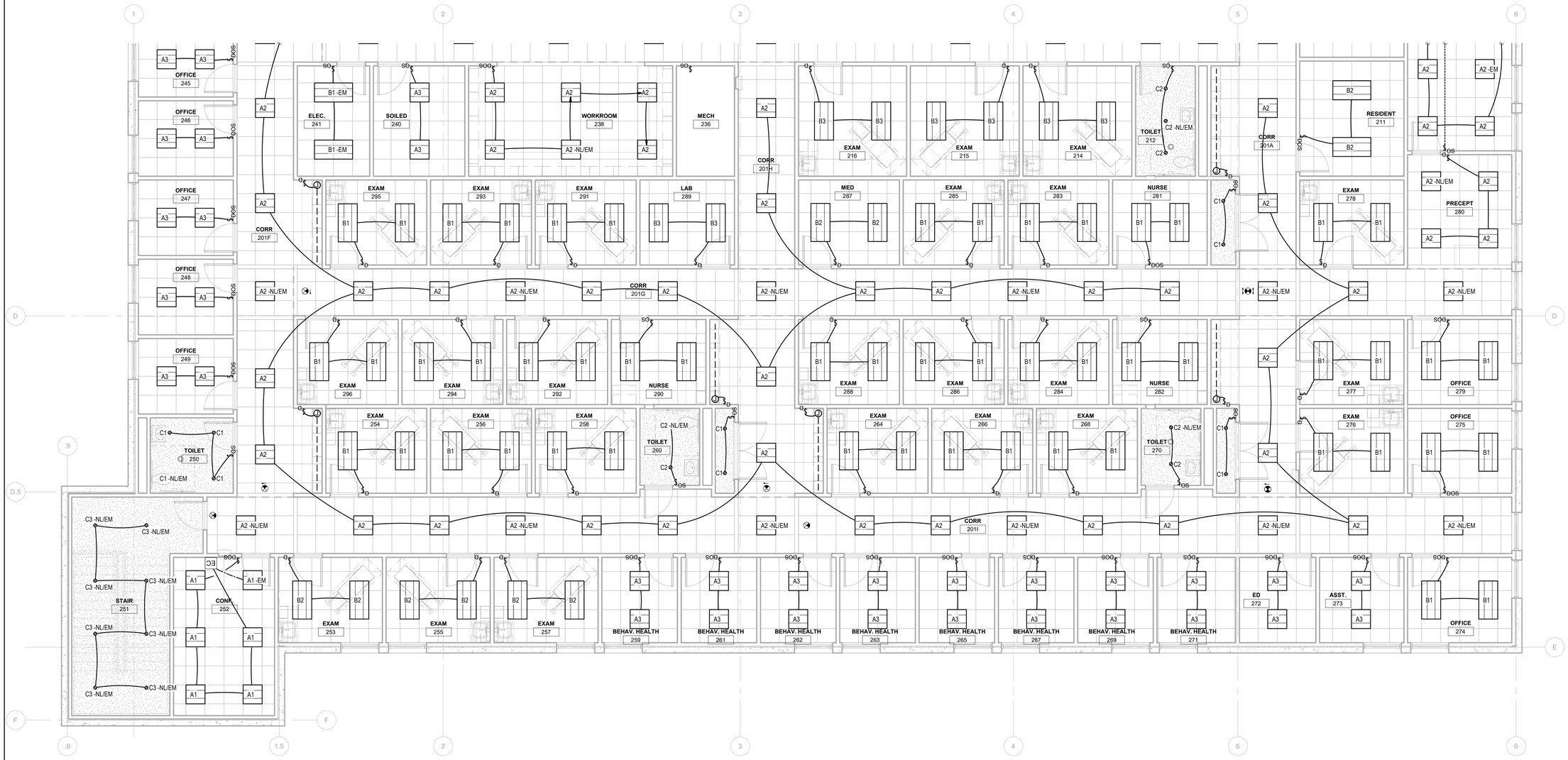

1 **PARTIAL LIGHTING PLAN - SECOND FLOOR SOUTH**

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

GENERAL NOTES

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910.341.7600
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PARTIAL LIGHTING PLAN - SECOND FLOOR

ISSUE BLOCK

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PROJECT NO:	2023038.00
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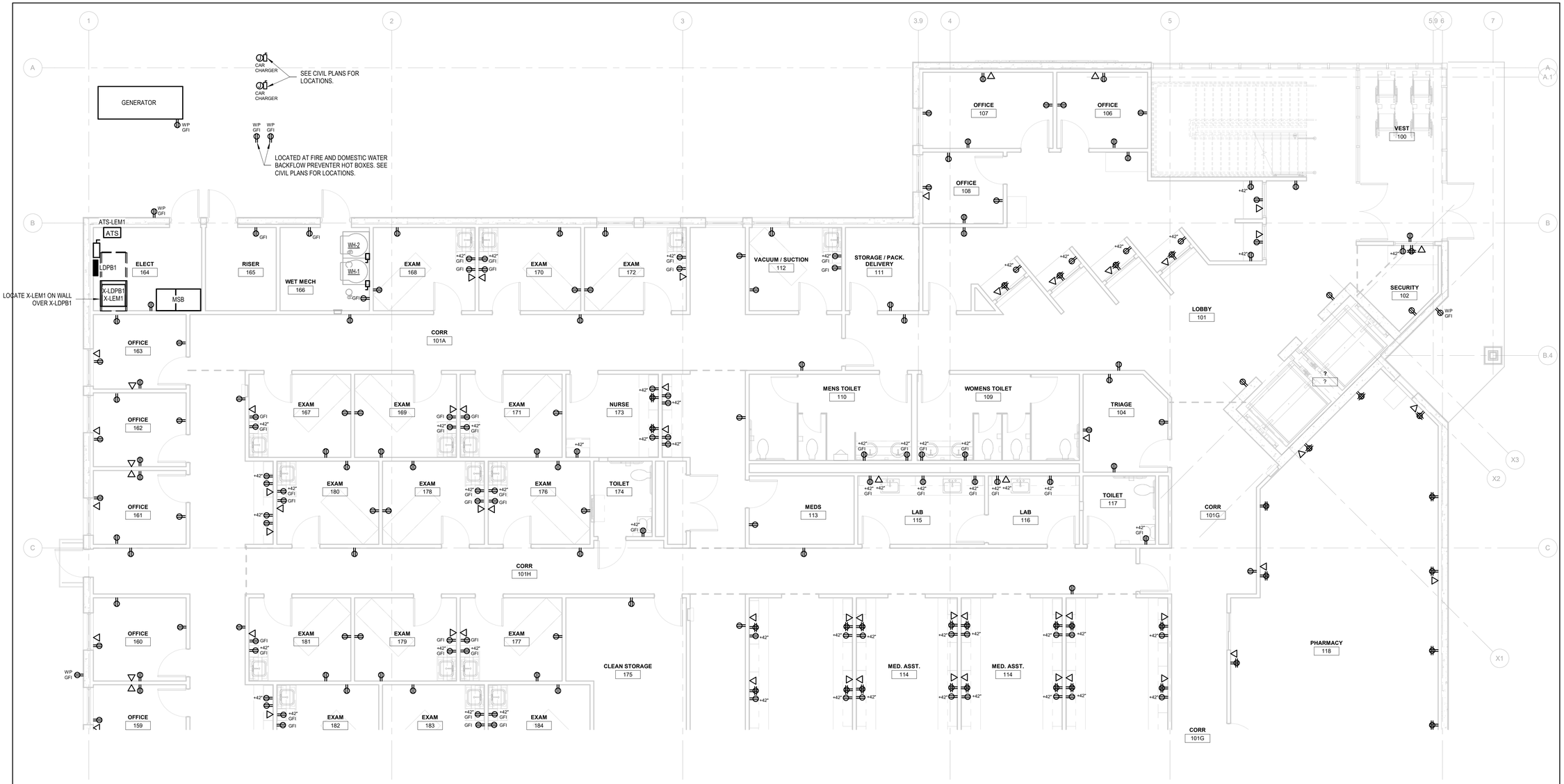

1 **PARTIAL POWER PLAN - FIRST FLOOR NORTH**

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

GENERAL NOTES

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PARTIAL POWER PLAN - FIRST FLOOR

ISSUE BLOCK

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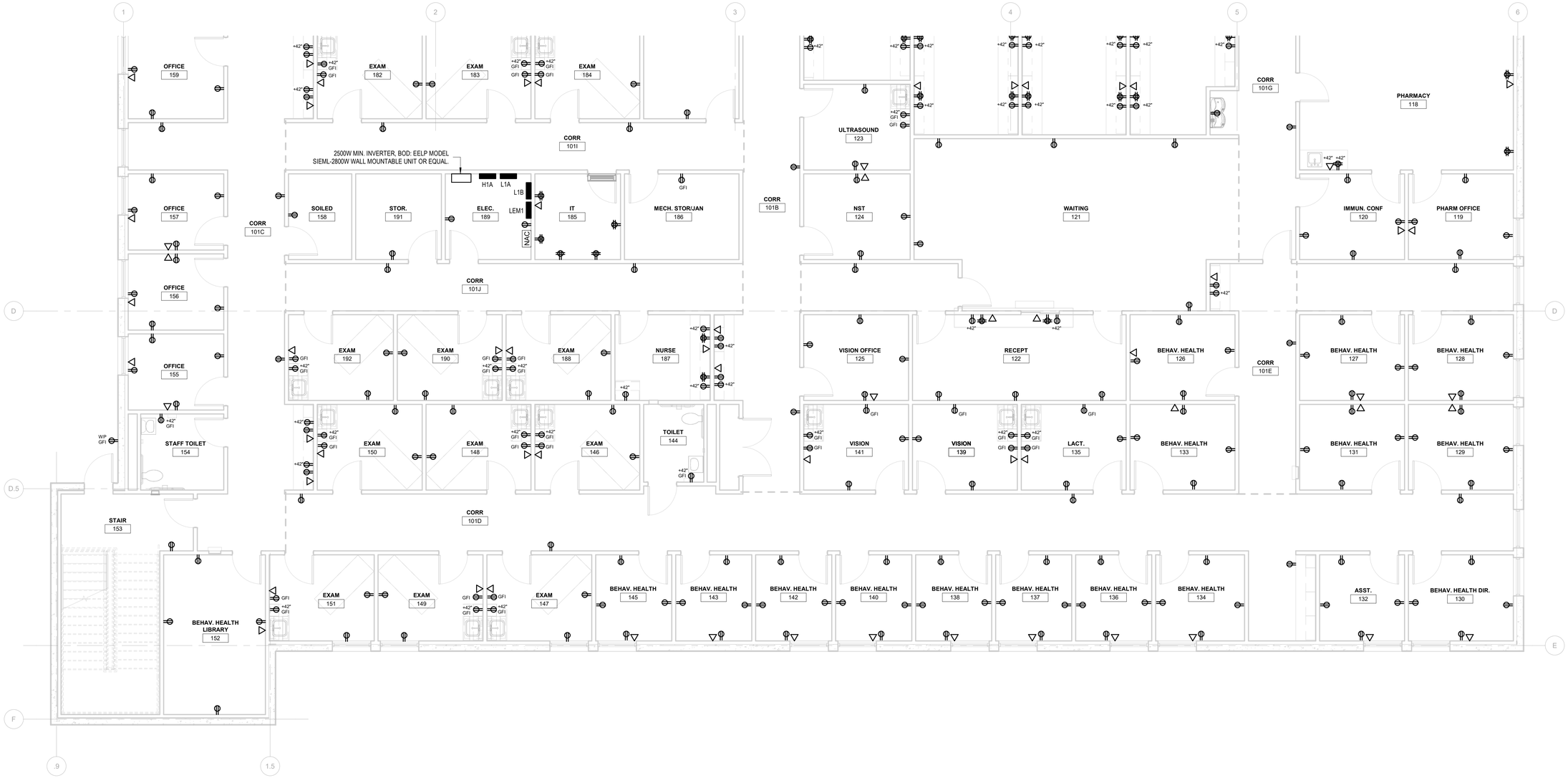

1 **PARTIAL POWER PLAN - FIRST FLOOR SOUTH**

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

GENERAL NOTES

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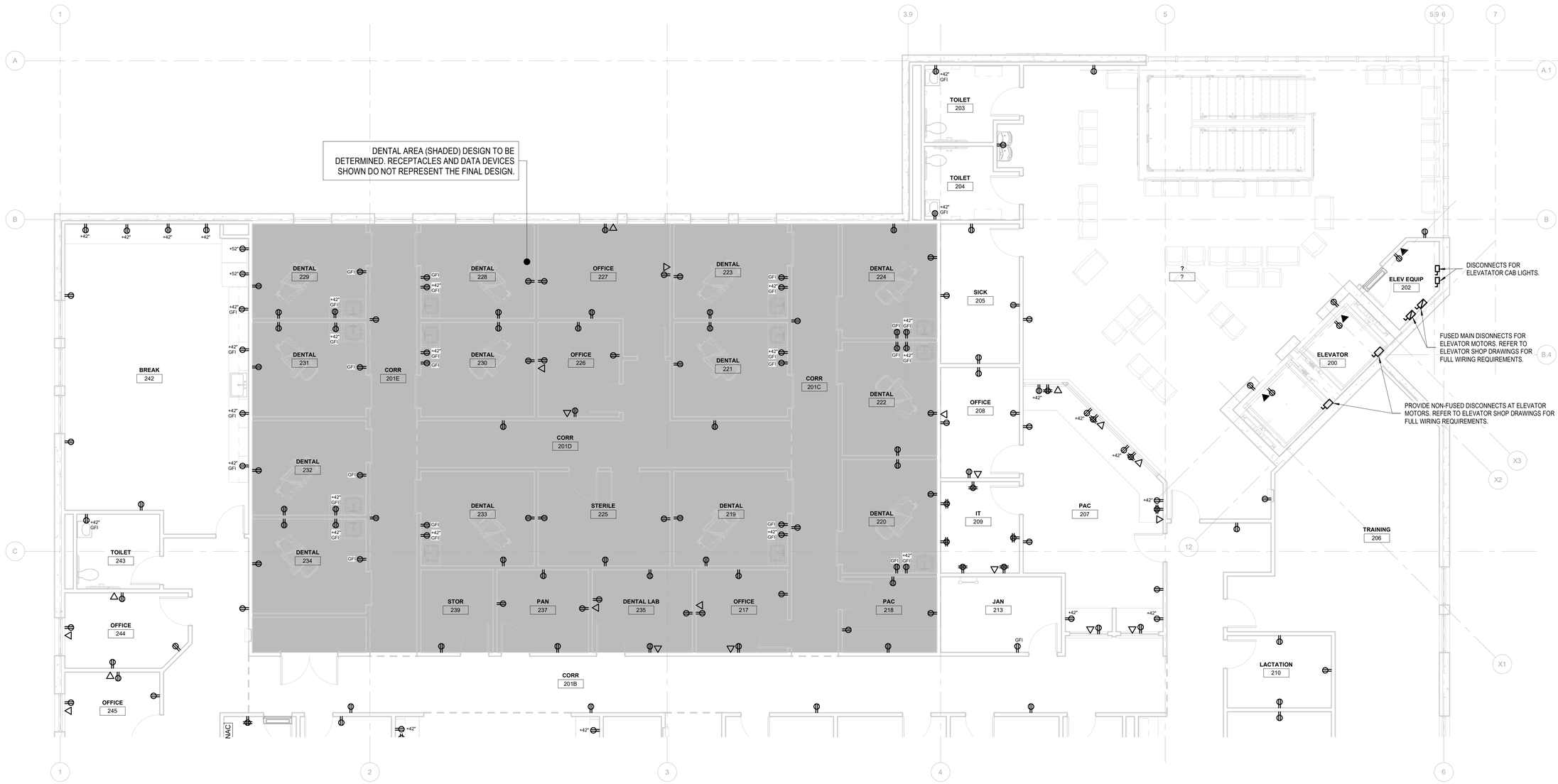

1 **PARTIAL POWER PLAN - SECOND FLOOR NORTH**

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

GENERAL NOTES

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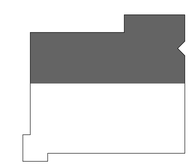

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ARCHITECTURE
ENGINEERING

North Carolina
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Wilmington, NC 28403
910.341.7600
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Charlotte, NC 28202
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302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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PARTIAL POWER PLAN - SECOND FLOOR

ISSUE BLOCK

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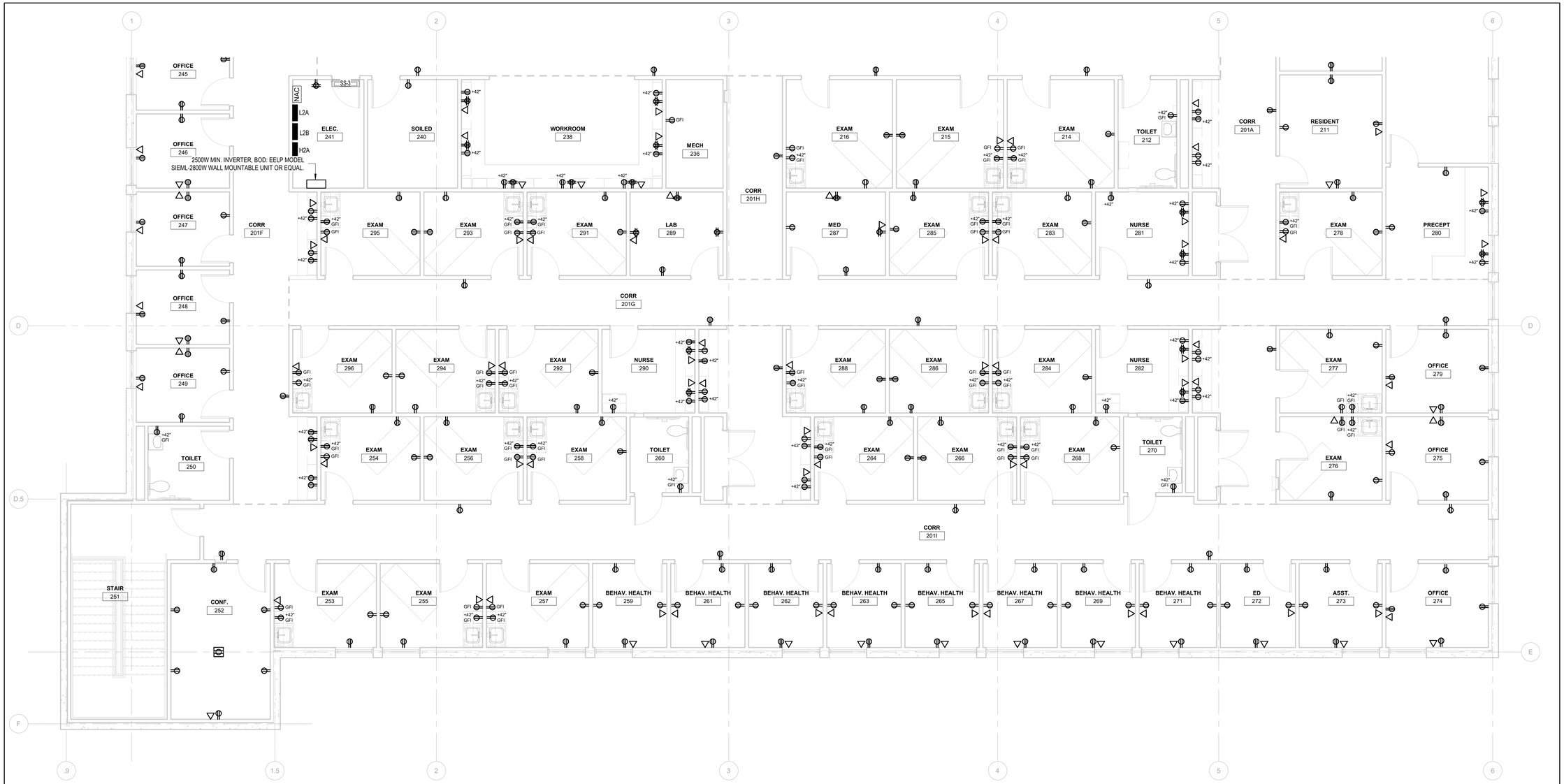

1 **PARTIAL POWER PLAN - SECOND FLOOR SOUTH**

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

GENERAL NOTES

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Charlotte, NC 28202
980.270.9100

Maryland
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Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

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Newark, DE 19713
302.369.3700

www.beckermorgan.com

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DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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SHEET TITLE

PARTIAL POWER PLAN - SECOND FLOOR

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
DATE:	04/12/2024
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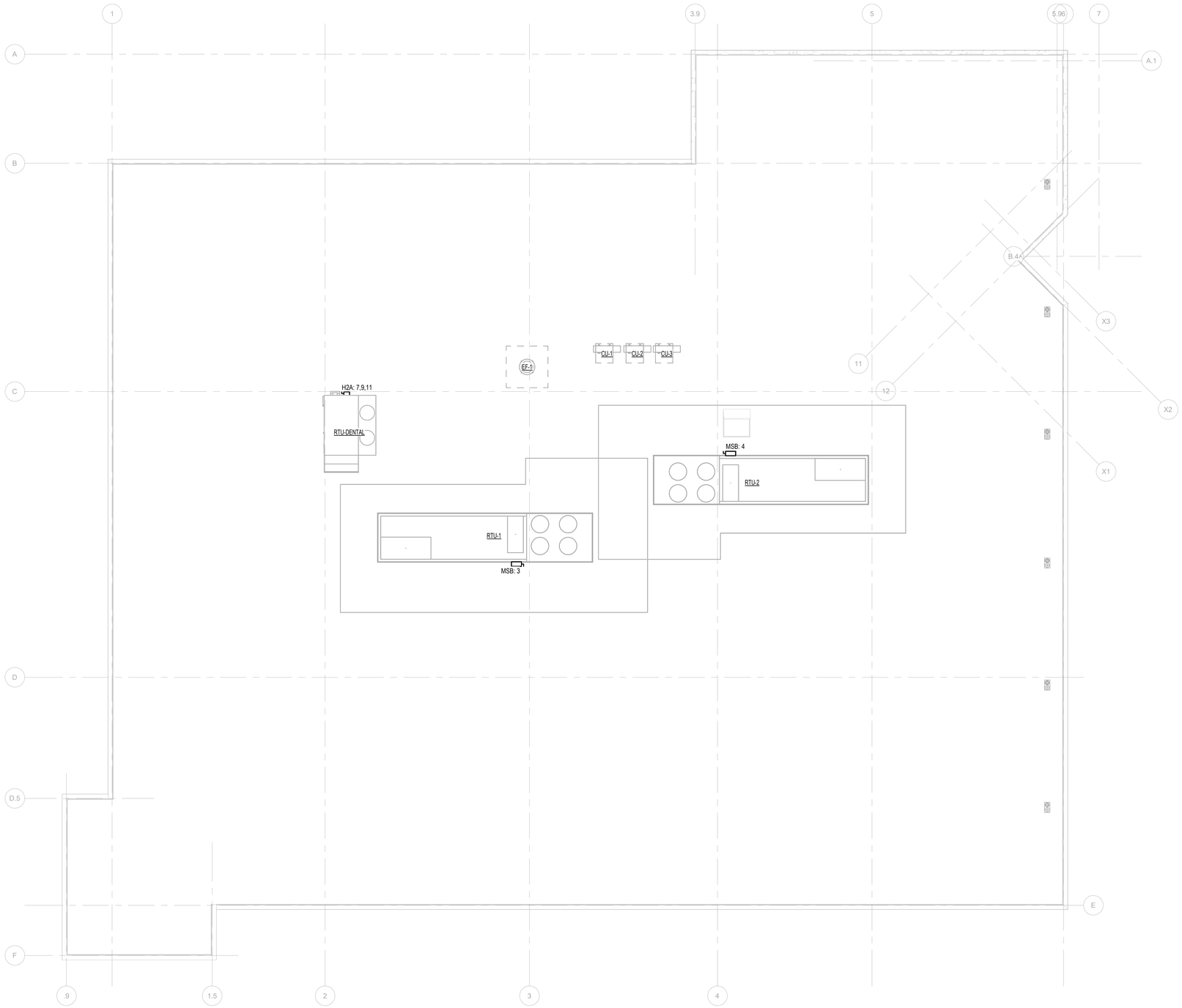

1 **POWER PLAN - ROOF LEVEL**

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

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ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

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DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
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POWER PLAN - ROOF

ISSUE BLOCK

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1 **POWER PLAN - HVAC FIRST FLOOR**

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

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ARCHITECTURE ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
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POWER PLAN - HVAC FIRST FLOOR

ISSUE BLOCK

Mark	Date	Description

PROJECT NO:	2023038.00
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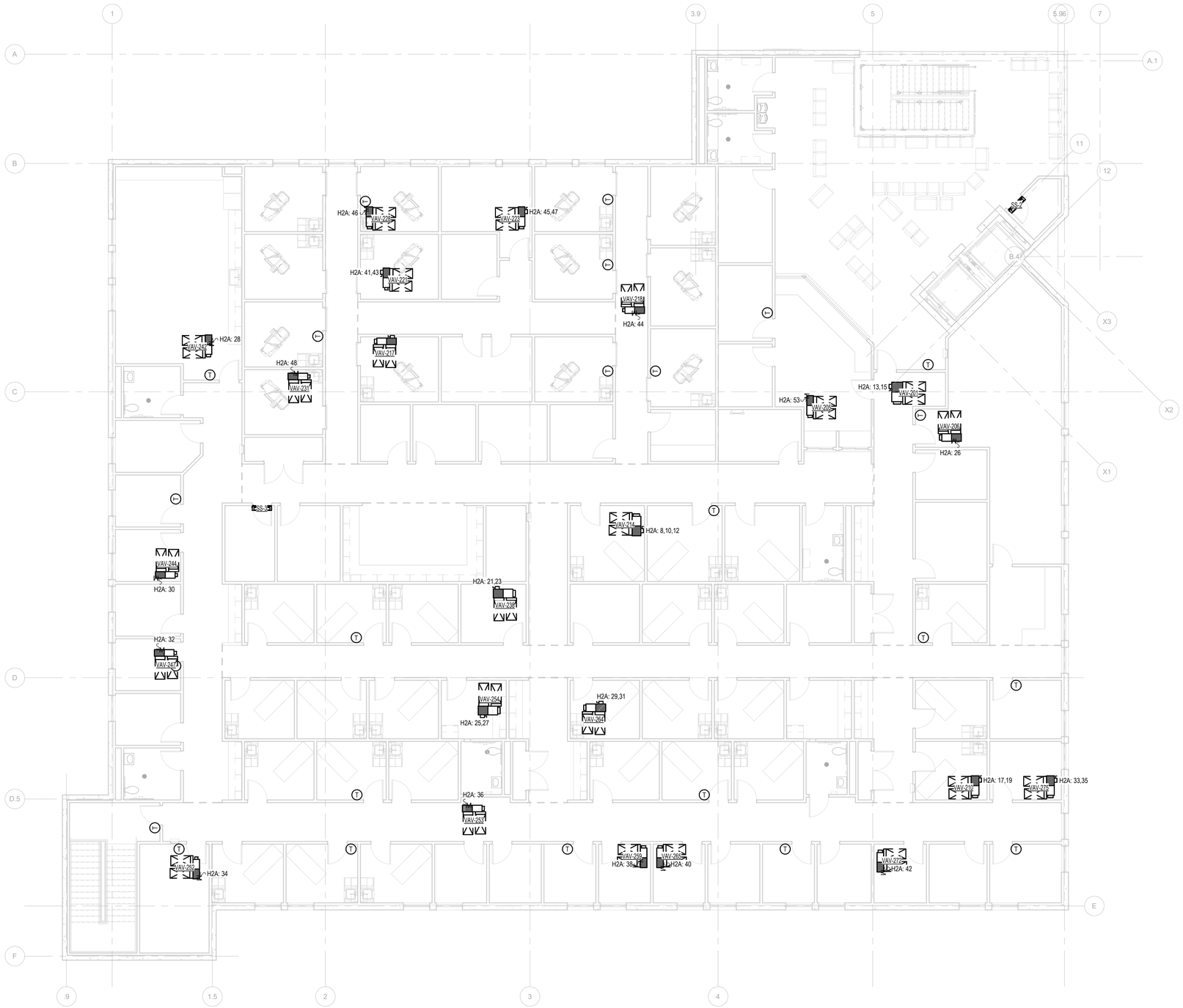

1 **POWER PLAN - HVAC SECOND FLOOR**

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

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ENGINEERING

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Charlotte, NC 28202
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POWER PLAN - HVAC SECOND FLOOR

ISSUE BLOCK

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LIGHTING FIXTURE SCHEDULE

I.D.	DESCRIPTION	LAMP QTY	WATTS	WATTS/FT	LAMP TYPE	COLOR TEMP	LUMENS	VOLTS	BASIS OF DESIGN		MOUNTING	REMARKS
									MANUFACTURER	MODEL		
A1	2x2 CENTER BASKET LED	-	20 W	-	LED	3500K	2600	120/277	SAYLITE	CBF 22L Y20W DMV 35K	LAY-IN	
A2	2x2 CENTER BASKET LED	-	25 W	-	LED	3500K	3250	120/277	SAYLITE	CBF 22L Y25W DMV 35K	LAY-IN	
A3	2x2 CENTER BASKET LED	-	33 W	-	LED	3500K	4290	120/277	SAYLITE	CBF 22L Y33W DMV 35K	LAY-IN	
B1	2x4 CENTER BASKER LED	-	35 W	-	LED	3500K	4900	120/277	SAYLITE	CBF 24L Y35W DMV 35K	LAY-IN	
B2	2x4 CENTER BASKER LED	-	45 W	-	LED	3500K	6300	120/277	SAYLITE	CBF 24L Y45W DMV 35K	LAY-IN	
B3	2x4 CENTER BASKER LED	-	54 W	-	LED	3500K	7560	120/277	SAYLITE	CBF 24L Y54W DMV 35K	LAY-IN	
C1	4" DOWNLIGHT	-	10 W	-	LED	3500K	700	277	LUMINATION	LDAVM1X9DWV1 RLDAVR4DF	SURFACE MOUNT OR SUSPEND	
C2	4" DOWNLIGHT	-	14 W	-	LED	3500K	1050	277	LUMINATION	LDAVM1X9DWV1 RLDAVR4DF	RECESSED	
C3	4" DOWNLIGHT	-	20 W	-	LED	3500K	1400	277	LUMINATION	LDAVM1X9DWV1 RLDAVR4DF	RECESSED	
D1	4' SELECTABLE LINEAR STRIP LIGHT	-	25 W	-	LED	3500K	3250	277	ALS	IL4A-MCWHUD	SURFACE MOUNT OR SUSPEND	SELECTABLE WATTAGE. MAXIMUM FIXTURE HEIGHT ABOVE FLOOR = 10'-0", SUSPEND IF NECESSARY AND PROVIDE ALL MOUNTING HARDWARE. WALL MOUNTED MAX HEIGHT = 8'-0" AFF.
E1	6" CYLINDER DOWNLIGHT	-	32 W	-	LED	3500K	2062	277	LUMINATION	LCC6S1H024WD935V1DFCL8L	SURFACE MOUNT	VERIFY FINISH
EXIT	EDGE LIT EXIT SIGN		5 W		LED			277			WALL OR CEILING	A/C ONLY. UNIVERSAL MOUNT
W1	EXTERIOR EGRESS WALL MOUNT		17 W		LED	3500K	1500	277			WALL @ +9'-0"AFF	

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ELECTRICAL SCHEDULES

ISSUE BLOCK

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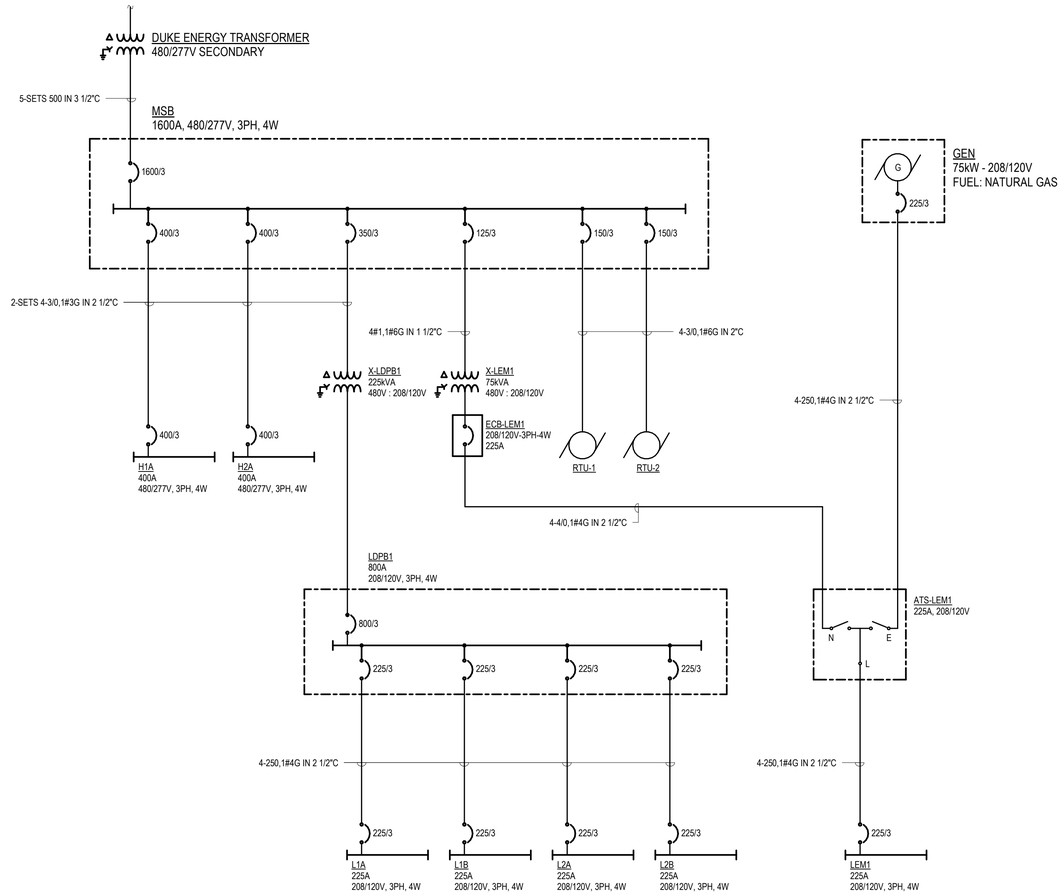

1 **SINGLE LINE**

SCALE: N.T.S.

BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

North Carolina
3333 Jaeckle Drive, Suite 120
Wilmington, NC 28403
910.341.7600
615 South College Street, Suite 8-158
Charlotte, NC 28202
980.270.9100

Maryland
312 West Main St, Suite 300
Salisbury, MD 21801
410.546.9100

Delaware
309 S Governors Ave
Dover, DE 19904
302.734.7950

The Tower at STAR Campus
100 Discovery Boulevard, Suite 102
Newark, DE 19713
302.369.3700

www.beckermorgan.com

CONSULTANT INFORMATION

DS ENGINEERING

DAVID SIMS & ASSOCIATES
108 GILES AVE.
STE. 100
WILMINGTON, NC
28403

910.791.8016
WWW.DSAENG.COM

NOT FOR CONSTRUCTION

PROJECT TITLE

MEDNORTH HEALTH CENTER

925 N 4TH STREET
WILMINGTON, NC 28401

PRELIMINARY

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DATE:	04/12/2024
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