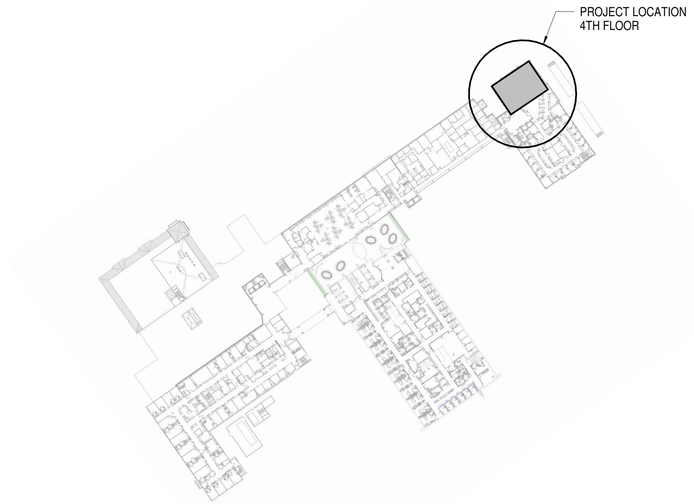
N

VICINITY MAP



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KEYMAP

DAYTON CHILDREN'S HOSPITAL
4th FLOOR OPC GENETICS CLINIC
DAYTON, OHIO

PROJECT CODE INFORMATION

DAYTON CHILDREN'S HOSPITAL - OPC LEVEL 4 - GENETICS CLINIC
One Children's Plaza, Dayton, OH 45402

Building Codes: All of the following references are to the 2024 Ohio Building Code (OBC) and 2012 NFPA 101 Life Safety Code
Note: This project is reviewed under the overall 2024 Ohio Building Code (OBC) as listed above and not reviewed per the 2024 Ohio Existing Building Code (OEBC).
"The work included in this project complies with the Perscriptive Compliance Method per OEBC 301.3.1 and OEBC chapter 5, which states that the overall 2024 Ohio Building Code (OBC) is the referenced standard used for the review."

Occupancy Classification: building classified as: Mixed-Use Non-Separated = Business - B & Assembly A-3 (Waiting & Meeting Areas)
(Note per OBC section 303.1.2 Assembly spaces less than 50 persons and less than 750 SF are considered B - Business)

Construction Type: 2B

This project is an interior renovation of the fourth level of the OPC building existing clinic area from a general clinic area into a specialized clinical area. The work consists of building new interior walls, installing plumbing to connect to existing systems, new lighting, ceiling, and mechanical devices for the new rooms, there is also an interior refresh compnent to this project. The area of renovation is an existing Business - B occupancy use and we are not adding overall building SF with this project.

Construction Type 2B requires the following ratings: (Table 601)

Structural frame:	0 hrs
Bearing Walls:	0 hrs (both exterior and interior)
Non-Bearing Walls:	0
Floor Construction:	0 hrs
Roof Construction:	0 hr
Shaft Enclosures (Section 707)	1 hrs

Automatic Sprinkler System (Section 903.2)	Area of work is fully sprinklered and will remain so for this project
Allowable Building Area (Table 506.2)	B-Business (SM): 69,000 s.f.
Actual Building Area of renovation	6,065 s.f.
Building Height (stories allowed per Table 504.4)	B-Business (SM): 4-stories
Actual Building Height of renovation	1 story (project is on 4th floor)
Exit Access Travel Distance (Table 1017.2)	B-Business (SM): 250ft (max.)
Exit Access Travel Distance (NFPA 101 Section 39.2.6.2)	B-Business (SM) 300ft (max.)
Dead End Corridor (Section 1020.5)	B-Business (SM) 50ft
Dead End Corridor (Section 39.2.5.2 - NFPA 101)	B-Business (SM): 50ft
Means of Egress Door Width (Section 1010.1)	32" clear (all other doors)
Common Path of Travel (NFPA 101, Section 39.2.5.3.3, OBC Table 1006.2.1)	100 ft max (with sprinkler)
Number of Exits required per floor (NFPA 101 Section 7.4.1.1 & OBC section 1006.3.3)	Min. 2 per story

Occupant Load (OBC Table 1004.5)
(NFPA Table 7.3.1.2)

Business Space - Unconcentrated Offices @ 150 SF gross = 4,798 SF / 150 = 31.98 occ. or **32 occupants**
Assembly spaces @ 15 SF Net = 1,267 / 15 = 84.46 occ. or **85 occupants**

Total Occupant Load = **117 occupants**

Plumbing Fixture Requirements (Table 2902.1)

Business Occupancy - 32 occupants (16 Male and 16 Female)

Male:	Water Closets	1 per 25/50	2 required	**4 provided**
	Lavatories	1 per 40/80	1 required	**4 provided**
Female:	Water Closets	1 per 25/50	1 required	**4 provided**
	Lavatories	1 per 80	1 required	**4 provided**
Drinking Fountains:		1 per 100 w/ 1 meeting ADA height		**1 provided (w/ 1 ADA) and Adding Bottle Filler**
Service Sink:			1 required	**1 exisitng on adjacent to renovation space**

Assembly Occupancy - 85 occupants (43 Male and 43 Female)

Male:	Water Closets	1 per 125	1 required	**4 provided**
	Lavatories	1 per 65	1 required	**4 provided**
Female:	Water Closets	1 per 125	1 required	**4 provided**
	Lavatories	1 per 65	1 required	**4 provided**
Drinking Fountains:		1 per 100 w/ 1 meeting ADA height		**1 provided (w/ 1 ADA) and Adding Bottle Filler**
Service Sink:			1 required	**1 exisitng on adjacent to renovation space**

ISSUED FOR CONSTRUCTION - 07/15/2025

CHAMPLIN ARCHITECTURE | EOP architecture | interiors
10 South Patterson Blvd.
Dayton, OH 45402
Tel: 937.224.4474

HEAPY
1400 W. Dorothy Lane
Dayton, OH 45409
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DRAWING INDEX

SHEET NUMBER	SHEET NAME	Sheet Issue Date	Current Revision	Current Revision Date
GENERAL				
G-001	COVER SHEET	07/15/25		
G-002	GENERAL NOTES	07/15/25		
LS-100	LIFE SAFETY	07/15/25		
LS-101	LIFE SAFETY - ENLARGED	07/15/25		
ARCHITECTURAL				
AD-101	DEMO FLOOR PLAN	07/15/25		
AD-111	DEMO RCP	07/15/25		
A-001	WALL PARTITION INFORMATION	07/15/25		
A-101	NEW WORK FLOOR PLAN	07/15/25		
A-111	NEW WORK RCP	07/15/25		
A-401	INTERIOR ELEVATIONS	07/15/25		
A-402	INTERIOR ELEVATIONS	07/15/25		
A-403	INTERIOR ELEVATIONS	07/15/25		
A-404	INTERIOR ELEVATIONS	07/15/25		
A-501	DETAILS	07/15/25		
A-601	DOOR SCHEDULE, FRAMES, TYPES, HARDWARES & DETAILS	07/15/25		
A-602	DOOR FRAME DETAILS	07/15/25		
A-801	CASEWORK DETAILS	07/15/25		
A-802	CASEWORK DETAILS	07/15/25		
A-900	SACRED WALL PLAN	07/15/25		
A-901	FFE PLAN	07/15/25		
A-902	FINISH PLAN	07/15/25		
A-903	FINISH LEGEND AND DETAILS	07/15/25		
PLUMBING				
P001	LEGEND, INDEX & GENERAL NOTES	07/15/25		
P002	SPECIFICATIONS AND SCHEDULE	07/15/25		
P101	PLUMBING LEVEL 3 NEW WORK	07/15/25		
P102	PLUMBING LEVEL 4- NEW WORK	07/15/25		
PD101	PLUMBING LEVEL 4 - REMOVALS	07/15/25		
MECHANICAL				
M001	LEGEND, INDEX & GENERAL NOTES	07/15/25		
M002	DETAILS	07/15/25		
M003	SPECIFICATIONS & SCHEDULES	07/15/25		
MD100	HVAC DUCTWORK PLAN LEVEL 4 - REMOVALS	07/15/25		
M101	HVAC DUCTWORK PLAN LEVEL 4 - NEW WORK	07/15/25		
ELECTRICAL				
E001	LEGEND, INDEX & GENERAL NOTES	07/15/25		
E002	SINGLE LINE, SCHEDULES & SPECIFICATIONS	07/15/25		
E003	PANEL SCHEDULES	07/15/25		
E101	PARTIAL FOURTH FLOOR-LIGHTING NEW WORK	07/15/25		
E102	PARTIAL FOURTH FLOOR - POWER & FIRE ALARM - NEW WORK	07/15/25		
ED101	PARTIAL FOURTH FLOOR - ELECTRICAL - DEMOLITION	07/15/25		
TECHNICAL				
T001	TECHNOLOGY LEGEND AND INDEX	07/15/25		
T002	TECHNOLOGY DIAGRAMS AND DETAILS	07/15/25		
T104	TECHNOLOGY PLAN LEVEL 4 - NEW WORK	07/15/25		
TD104	TECHNOLOGY PLAN LEVEL 4 - DEMO	07/15/25		

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dayton children's

OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

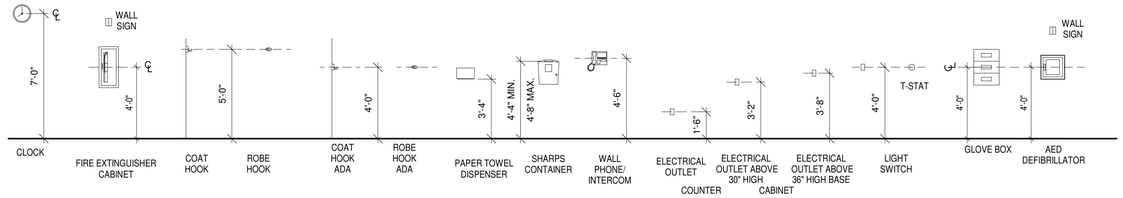
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
COVER SHEET

SHEET NO.
G-001

7/17/2025 7:38:20 AM

ISSUED FOR CONSTRUCTION



NOTE: TYPICAL MOUNTING HEIGHTS OF HOSPITAL EQUIPMENT, UNLESS NOTED OTHERWISE

N	NORTH ARROW	101	DOOR NUMBER
0	GRID HEAD	P1A	WALL TAG
1 / A101 SIM	CALL OUT HEAD W/ SHEET NUMBER	A	WINDOW TAG
Room name	ROOM NAME W/ ROOM NUMBER	1 / A101 View Name 1/8" = 1'-0"	VIEW NAME W/ SCALE
1 / A101 SIM	BUILDING SECTION NUMBER W/ SHEET NUMBER	1	REVISION TAG
1 / A101 SIM	WALL SECTION NUMBER W/ SHEET NUMBER	C1 10'-0"	CEILING TAG W// HEIGHT
1 / A101 SIM	DETAIL SECTION NUMBER W/ SHEET NUMBER		
1 Ref, Ref 1, A101, Ref 1, 1 Ref	INTERIOR ELEVATION NUMBER W/ SHEET NUMBER		

TYP. MOUNTING HEIGHTS

SYMBOLS & ANNOTATIONS

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL AUTHORITIES, CODES, RULES AND REGULATIONS.
2. THESE DOCUMENTS SHOW THE MINIMUM CONSTRUCTION REQUIREMENTS AND THE MINIMUM QUALITY OF WORK EXPECTED. MORE STRINGENT REQUIREMENTS STIPULATED WITHIN RELEVANT MANUFACTURER'S INSTALLATION INSTRUCTION WITH SUPERSEDE.
3. ANY UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
4. ANY CONFLICT WITHIN THE DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS AT THE SITE, ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
5. ALL CONTRACTORS AND SUBS ARE RESPONSIBLE FOR THE ENTIRE PROJECT DOCUMENT PACKAGE AS A WHOLE. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS BETWEEN DISCIPLINES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
6. UNLESS OTHERWISE NOTED, ALL MATERIAL AND EQUIPMENT ARE TO BE INSTALLED PER THE APPLICABLE PROVISIONS OF THESE DOCUMENTS AND THE MANUFACTURER'S INSTRUCTIONS.
7. ALL MATERIALS USED ARE REQUIRED TO BE NEW UNLESS OTHERWISE NOTED AND/OR IF A QUALITY TO MEET OR EXCEED ALL APPLICABLE INDUSTRY STANDARDS. WHERE SPECIFIED PRODUCTS OR MANUFACTURERS ARE NOT NOTED, THE CONTRACTOR IS REQUIRED TO NOTIFY THE ARCHITECT TO OBTAIN A MINIMUM STANDARD OF QUALITY.
8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES FOR CONSTRUCTION.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR JOB-SITE SAFETY INCLUDING BUT NOT LIMITED TO THE ADHERENCE TO OSHA REGULATIONS.
10. ALL ELECTRICAL AND MECHANICAL WORK SHALL BE PERFORMED BY PERSONNEL LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED.
11. REMOVE ALL DEBRIS PROPERLY FROM THE SITE. LOAD DEBRIS DIRECTLY ONTO TRUCKS OR INTO DUMPSTERS FOR REMOVAL. DISPOSE OF DEBRIS LEGALLY. DO NOT BURN DEBRIS ON THE SITE. DO NOT ALLOW DEBRIS TO ENTER SEWERS. DO NOT ALLOW PILED DEBRIS TO ENDANGER STRUCTURES, BLOCK EXISTING OR ROADWAYS. COMBUSTIBLE WASTE WHICH COULD CREATE A FIRE HAZARD SHALL NOT BE PERMITTED TO ACCUMULATE IN OR AROUND THE CONSTRUCTION SITE.
12. COORDINATE ALL WORK WITH ALL OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING & SITE DRAWINGS. EXACT SIZE AND LOCATION OF ALL ROOF AND FLOOR OPENINGS SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE VERIFIED WITH THE ASSOCIATED SUB-CONTRACTORS PRIOR TO CONSTRUCTION.
13. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE FACE OF STUD TO FACE OF STUD (ROUGH FRAMING DIMENSIONS) OF CONSTRUCTION.
14. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION FOR CLEARANCE AND DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
15. WITHIN ALL METAL STUD PARTITIONS, THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES INCLUDING BUT NOT LIMITED TO: MECHANICAL, ELECTRICAL AND PLUMBING DEVICES, FURNITURE, CASEWORK, MILLWORK, AND ALL OTHER WALL MOUNTED ACCESSORIES AND ITEMS. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HEREON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH THE ASSOCIATED SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALL INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
16. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
17. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING. TO DETERMINE THE SIZE AND LOCATION OF ALL PENETRATIONS IN NEW CONSTRUCTION. COORDINATE AND PROVIDE ALL OPENINGS. SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK.
18. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SAFED IN ACCORDANCE WITH THE SPECIFICATIONS.
19. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM. WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDING IN THESE DOCUMENTS.
20. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT INSTALLATION AND VERIFYING ALL REQUIRED ROUGH OPENINGS, AND ROUGH-IN DIMENSIONS WITHT THE EQUIPMENT MANUFACTURER, OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
22. ROOM IDENTIFICATION SIGNAGE IS REQUIRED TO MEET THE REQUIREMENTS FOR CHARACTER HEIGHT AND PROPORTION, FINISH AND CONTRAST, FONT, BRAILLE, AND PICTOGRAM TYPES AS INDICATED IN THESE DOCUMENTS. ROOM IDENTIFICATION SIGNAGE SHALL BE MOUNTED AT 60" ABOVE THE FINISHED FLOOR TO THE SIGN CENTERLINE AND SHALL BE MOUNTED TO THE WALL AT THE LATCH SIDE OF THE DOOR.

GENERAL NOTES FOR NEW WORK

1. SEE GENERAL PROJECT NOTES FOR NEW WORK FOR ADDITIONAL REQUIREMENTS FOR WORK WITHIN THE EXISTING FACILITY.
2. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND FIELD CONDITIONS PRIOR TO DEMOLITION AND CONSTRUCTION. IF PROVIDED, THE GENERAL CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING BUILDING DOCUMENTS. THE CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING ITEMS TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
4. MAINTAIN EXIT EGRESS PATHS TO EXISTING EXIT DOORS DURING CONSTRUCTION.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL CONSTRUCTION ROUTES BEYOND THE AREAS OF WORK AND THE ROUTES MUST BE RETURNED TO THEIR ORIGINAL CONDITION AT THE END OF THE PROJECT.
6. MAINTAIN THE BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES.
7. ALL DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS OF NORMAL FUNCTIONS OF THE OWNER'S OCCUPIED AREAS.
8. IF CONSTRUCTION NOISE IS ANTICIPATED, SUBMIT A WRITTEN REQUEST TO THE OWNER FOR THE SCHEDULED TIME OF THE CONSTRUCTION ACTIVITIES. NO WORK SHALL BE DONE WITHOUT THE WRITTEN APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO DISCONTINUE NOISY CONSTRUCTION AT ANY TIME. NO RADIOS SHALL BE PERMITTED AT ANY TIME IN WORK AREAS ADJACENT TO OCCUPIED SPACES.
9. ALL EXISTING SERVICES AND UTILITIES SHALL BE MAINTAINED TO ADJACENT DEPARTMENTS OR AREAS THAT ARE IN OPERATION AND SERVED BY THEM. COORDINATE ALL DISRUPTIONS OR DISCONTINUATIONS OF UTILITIES AND SERVICES WITH OWNER. NO SHUT DOWN OF EXISTING SERVICES SHALL OCCUR UNTIL RECEIVING THE OWNER'S WRITTEN APPROVAL OF THE SHUT DOWN SCHEDULE. PROVIDE TEMPORARY SERVICES AND/OR UTILITIES DURING INTERRUPTIONS AS REQUIRED AND APPROVED BY THE OWNER.
10. THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNER'S OCCUPIED AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED. IN THESE AREAS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY LACK OF SUFFICIENT PROTECTION FROM THE WEATHER AND FROM THE RESULTS OF ALL CONSTRUCTION ACTIVITY INCLUDING BUT NOT LIMITED TO DUST AND WATER.
11. TEMPORARY BARRICADES WHERE INDICATED ON THE DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE GENERAL CONTRACTOR MUST COORDINATE SPECIFIC LOCATIONS WITH THE OWNER IN CONJUNCTION WITH THE CONSTRUCTION PHASING. TEMPORARY BARRICADES MUST BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND OWNER'S INTERIM LIFE SAFETY MEASURES.
12. THE GENERAL CONTRACTOR MUST ENSURE THAT ALL HOSPITAL INFECTION CONTROL REGULATIONS ARE ADHERED TO THROUGHOUT THE CONSTRUCTION PROCESS.
13. DURING CONSTRUCTION, ISOLATE ALL HVAC SYSTEMS IN AREAS WHERE THE WORK IS BEING PERFORMED. COMPLETE ALL CRITICAL BARRIERS TO SEAL THE WORK AREA FROM THE REST OF THE FACILITY. MAINTAIN NEGATIVE AIR PRESSURE WITHIN THE WORK SITE USING HEPA-EQUIPPED AIR FILTRATION UNITS. APPLY ANY PENETRATIONS BETWEEN THE WORK AREA AND THE REST OF THE FACILITY. CONTAIN CONSTRUCTION WASTE IN COVERED CONTAINERS BEFORE TRANSPORTING IT. TAPE THE COVERING UNLESS IT HAS A SOLID LID. DO NOT REMOVE THE CRITICAL BARRIERS UNTIL RECEIVING APPROVAL FROM THE OWNER. UPON COMPLETION OF THE WORK, REMOVE THE CRITICAL BARRIERS CAREFULLY TO MINIMIZE THE SPREAD OF THE DUST. WIPE ALL AREAS AND WET MOP THE FLOORS WITH DISINFECTANT AND THEN RETURN THE HVAC TO SERVICE.
14. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM THE OWNER BEFORE USING OPEN FLAMES, WELDING RODS AND TORCHES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS TO PROHIBIT THE MIGRATION OF SMOKE AND OTHER PRODUCTS OF COMBUSTION INTO OCCUPIED AREAS OF THE EXISTING BUILDING AND FOR OBTAINING ALL REQUIRED PERMITS RELATED TO HOT WORK.
15. PROVIDE FIRE PROTECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY.
16. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO PATCH ALL SPRAY-ON FIRE PROTECTION AT REMOVALS, AT ANY EXISTING LOCATIONS WHICH ARE VOID OF PROTECTION WITHIN THE AREA OF WORK AND AT NEW CONSTRUCTION WHICH DISTURBS EXISTING FIRE PROTECTION. FIREPROOFING MUST BE CONTINUOUS AND UNOBSTRUCTED.
17. DO NOT OVERLOAD THE EXISTING BUILDING STRUCTURE. MAINTAIN THE STRUCTURAL INTEGRITY OF ALL STRUCTURAL FRAMING MEMBERS AND SYSTEMS AT ALL TIMES.
18. ALL DEMOLISHED MATERIAL, EXCEPT MATERIAL THAT IS LISTED OR MARKED BY THE ARCHITECT OR THE OWNER FOR RETENTION, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE DISPOSED OF. NO DEBRIS RESULTING FROM WORK SHALL BE LEFT IN THE CONSTRUCTION ROUTES BEYOND THE AREAS OF WORK.
19. REMOVAL OF A PARTICULAR ITEM IS TO INCLUDE ALL RELATED ITEMS, SUCH AS REMOVAL OF WALLS WOULD INCLUDE ASSOCIATED DOORS, HARDWARE, ELECTRICAL, PLUMBING, MECHANICAL, ETC. REFER TO DEMOLITION DRAWINGS FOR MORE INFORMATION. FOR ALL REMOVALS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING.
20. WHERE CEILINGS ARE SHOWN TO BE REMOVED, ALL UNUSED SUSPENDED EQUIPMENT, WIRES, ANGLES, ETC. SHALL BE REMOVED. SEE DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION. EXISTING LIGHTS MAY BE MAINTAINED AS TEMPORARY CONSTRUCTION LIGHTING.
21. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ITEMS NOT DEMOLISHED OR REMOVED AS REQUIRED UNTIL PERMANENT SUPPORT IS PROVIDED IN THE FINAL CONSTRUCTION.
22. ALL OPENINGS IN EXISTING WALLS, CEILINGS AND FLOORS, WHICH ARE THE RESULT OF REMOVALS AND OTHER NEW CONSTRUCTION ACTIVITY, SHALL BE PATCHED WITH NEW MATERIALS THAT MATCH THE EXISTING MATERIALS. IF THE PATCH IS TO BE MADE IN FIRE RATED CONSTRUCTION, THE PATCH MUST ACHIEVE THE REQUIRED FIRE RATING. THE PATCH SHALL BE FINISHED TO A LIKE NEW CONDITION TO MATCH THE EXISTING FINISH.
23. ALL EXISTING OPENINGS IN CEILINGS, FLOORS AND WALLS DISCOVERED IN THE EXISTING STRUCTURE SHALL BE PATCHED WITH NEW MATERIALS THAT MATCH THE EXISTING MATERIALS. IF THE PATCH IS TO BE MADE IN FIRE RATED CONSTRUCTION, THE PATCH MUST ACHIEVE THE REQUIRED FIRE RATING. THE PATCH SHALL BE FINISHED TO A LIKE NEW CONDITION TO MATCH THE EXISTING FINISH.
24. WHERE EXISTING SURFACES ARE TO BE REFINISHED OR ARE TO SERVE AS SUBSTRATE FOR THE ATTACHMENT OR APPLICATION OF NEW MATERIALS OR CONSTRUCTION, PREPARE OR ALTER THE EXISTING SURFACES AS NECESSARY TO PROPERLY ACCOMMODATE THE NEW MATERIALS.
25. FIELD VERIFY SIZES AND DIMENSIONS OF ALL EXISTING UTILITIES THAT IMPACT THE NEW WORK. DETERMINE THE SIZE AND LOCATION THE PENETRATIONS FROM THE EXISTING UTILITIES WITHIN THE NEW WORK. SEAL TIGHT TO ALL PENETRATIONS AND CAULK.
26. PENETRATIONS THROUGH EXISTING FIRE RATED CONSTRUCTION MUST BE PROPERLY CLOSED AND FIRE SAFED TO ACHIEVE THE PROPER FIRE RATING BY THE END OF CONSTRUCTION OPERATIONS FOR EACH DAY.
27. NEW HOLES IN EXISTING ELEVATED FLOOR AND ROOF STRUCTURES FOR NEW WORK MUST BE COORDINATED WITH THE EXISTING STRUCTURE SO THAT CRITICAL STRUCTURAL MEMBERS ARE NOT DAMAGED.
28. UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING SALVAGED STOCK BEFORE ORDERING NEW MATERIAL.

GENERAL NOTES FOR EXISTING FACILITIES

& ——— AND
< ——— ANGLE
@ ——— AT
℄ ——— CENTERLINE
Ø ——— DIAMETER
℄ ——— FLOOR LINE
℗ ——— PROPERTY LINE
——— POUND OR NUMBER

A.B. ——— ANCHOR BOLT
A.C.M. ——— ASBESTOS CONTAINING MATERIALS
A.C.P. ——— ASPHALT CONCRETE PAVING
A/C ——— AIR CONDITIONING
ACOUS. ——— ACOUSTIC
ACT. ——— ACOUSTICAL TILE/PANEL
A.D. ——— AREA DRAIN
ADJ. ——— ADJUSTABLE
AFF. ——— ABOVE FINISH FLOOR
AGG. ——— AGGREGATE
AL. ——— ALUMINUM
ALT. ——— ALTERNATE
APPROX. ——— APPROXIMATE
ARCH. ——— ARCHITECT
ASPH. ——— ASPHALT

BD. ——— BOARD
BITUM. ——— BITUMINOUS
BLDG. ——— BUILDING
BLK. ——— BLOCK
BLKG. ——— BLOCKING
BM. ——— BENCH MARK or BEAM
BOT. ——— BOTTOM
BRG. ——— BEARING
BRK. ——— BRICK
BRZ. ——— BRONZE
BTWN. ——— BETWEEN
B.U.R. ——— BUILT-UP ROOFING

CAB. ——— CABINET
CARP. ——— CARPET
C.B. ——— CATCH BASIN
C.B.B. ——— CEMENTITIOUS BACKER BOARD
CEM. ——— CEMENT
CER. ——— CERAMIC
CER.T. ——— CERAMIC TILE
C.F.C.I. ——— CONTRACTOR FURNISH/ CONTRACTOR INSTALL
C.F.O.I. ——— CONTRACTOR FURNISH/ OWNER INSTALL
C.H.K. ——— COAT HOOK
C.I. ——— CAST IRON
CIR. ——— CIRCLE
C.J. ——— CONSTRUCTION JOINT
CLG. ——— CEILING
CLG.J. ——— CEILING JOIST
CLKG. ——— CAULKING
CLO. ——— CLOSET
CLR. ——— CLEAR
CLS. ——— CLOSURE
C.M.U. ——— CONCRETE MASONRY UNIT
CNTR. ——— COUNTER
C.O. ——— CLEAN OUT
COL. ——— COLUMN
COMB. ——— COMBINATION
COMP. ——— COMPOSITION
CONC. ——— CONCRETE
CONN. ——— CONNECTION
CONST. ——— CONSTRUCTION
CONT. ——— CONTINUOUS
CONV.O. ——— CONVECTION OVEN
CTR ——— CENTER
C.W. ——— COLD WATER
CW. ——— CURTAINWALL

DET. ——— DETAIL
DF. ——— DOUGLAS FIR
D.F.C. ——— DRINKING FOUNTAIN
DIA. ——— DIAMETER
DIAG. ——— DIAGONAL
DIM. ——— DIMENSION
DISP. ——— DISPOSAL
DIV. ——— DIVISION
DN. ——— DOWN
D.O. ——— DOOR OPENING
DR. ——— DOOR
D.S. ——— DOWN SPOUT
D.T. ——— DRAIN TILE
D.W. ——— DISHWASHER
DWG(S). ——— DRAWING(S)
DWR. ——— DRAWER

(E) ——— EXISTING
EA. ——— EACH
E.C. ——— ELECTRICAL CONTRACTOR
E.E. ——— EACH END
E.F. ——— EXHAUST FAN
E.J. ——— EXPANSION JOINT
ELEC. ——— ELECTRICAL
ELEV. ——— ELEVATION
E.N. ——— EDGE NAIL

ENCL. ——— ENCLOSURE
EQUIV. ——— EQUIVALENT
E.S. ——— EACH SIDE
E.W. ——— EACH WAY
E.W.C. ——— ELECTRIC WATER CLOSET
EXP. ——— EXPANSION
EXP.B. ——— EXPANSION BOLT
EXPO. ——— EXPOSURE
EXT. ——— EXTERIOR

F. ——— FACE
F.A. ——— FIRE ALARM
F.B. ——— FACE BRICK
F.BD. ——— FIREBOARD
F.BELL ——— FIRE BELL
F.B.O. ——— FURNISHED BY OTHERS
F.D. ——— FLOOR DRAIN
FDN. ——— FOUNDATION
F.E. ——— FIRE EXTINGUISHER
F.E.C. ——— FIRE EXTINGUISHER CABINET
F.F. ——— FINISH FLOOR
F.G. ——— FINISH GRADE
FGL. ——— FIBERGLASS
F.H. ——— FIRE HYDRANT
F.H.M.S. ——— FLAT HEAD MACHINE SCREW
F.HORN ——— FIRE HORN
F.H.S. ——— FIRE HOSE STATION
FH.W.S. ——— FLAT HEAD WOOD SCREW
FIN. ——— FINISH
FIXT. ——— FIXTURE
F.J. ——— FLOOR JOIST
F.L. ——— FLOOR LINE
FLASH ——— FLASHING
FLOUR. ——— FLOURESCENT
FLR. ——— FLOOR
F.N. ——— FACE NAIL
F.O.B. ——— FACE OF BUILDING
F.O.C. ——— FACE OF CONCRETE
F.O.F. ——— FACE OF FINISH
F.O.M. ——— FACE OF MASONRY
F.O.S. ——— FACE OF STUD
F.R.T.W. ——— FIRE RETARDANT TREATED WOOD
F.S.C. ——— FIRE SUPPRESSION CONTRACTOR
F.S.E.C. ——— FOOD SERVICE EQUIPMENT CONTRACTOR
FTG. ——— FOOTING
FUT. ——— FUTURE
F.V.C. ——— FIRE VALVE CABINET

GA. ——— GAUGE
GALV. ——— GALVANIZED
G.C. ——— GENERAL CONTRACTOR
G.B. ——— GRAB BAR
G.D. ——— GARBAGE DISPOSAL
G.E. ——— GRATE ELEVATION
G.I. ——— GALVANIZED IRON
GL. ——— GLASS
GLB. ——— GLUE LAMINATED BEAM
GND. ——— GROUND
GR. ——— GRADE
G.S.M. ——— GALVANIZED SHEET METAL
GYP.BD. ——— GYPSUM BOARD

H.B. ——— HOSE BIB
HC. ——— HANDICAPPED
H.C. ——— H.V.A.C. CONTRACTOR
HDR. ——— HEADER
HDWD. ——— HARDWOOD
HDWE. ——— HARDWARE
HGT. ——— HEIGHT
H.M. ——— HOLLOW METAL
HORIZ. ——— HORIZONTAL
H.P. ——— HIGH POINT
HR. ——— HOUR
H.S.S. ——— HOLLOW STRUC. STL.
HTG. ——— HEATING
H.V.A.C. ——— HEATING, VENTILATION & AIR CONDITIONING
H.W. ——— HOT WATER

I.D. ——— INSIDE DIAMETER
INSUL. ——— INSULATION
INT. ——— INTERIOR
INV. ——— INVERT

JAN. ——— JANITOR
J.H. ——— JOIST HANGER
JST. ——— JOIST
JT. ——— JOINT

KIT. ——— KITCHEN

LAB. ——— LABORATORY
LAM. ——— LAMINATE
LAV. ——— LAVATORY
L.B. ——— LAG BOLT

L.H. ——— LEFT HAND
L.L. ——— LIVE LOAD
L.P. ——— LOW POINT
LT. ——— LIGHT

MAT. ——— MATERIAL
MAX. ——— MAXIMUM
M.B. ——— MACHINE BOLT
M.C. ——— MEDICINE CABINET
MECH. ——— MECHANICAL
MED. ——— MEDIUM
MEMB. ——— MEMBRANE
M.E.P. ——— MECHANICAL, ELECTRICAL, PLUMBING
MFG. ——— MANUFACTURER
MH. ——— MANHOLE
MIN. ——— MINIMUM
MIR. ——— MIRROR
MISC. ——— MISCELLANEOUS
M.O. ——— MASONRY OPENING
MOD. ——— MODULAR
MP.H. ——— MOP HOLDER
MR. ——— FRAMED MIRROR
M.R. ——— MOISTURE RESISTANT
M.T. ——— METAL THRESHOLD
MTD. ——— MOUNTED
MTL. ——— METAL

(N) ——— NEW
N. ——— NORTH
NAT. ——— NATURAL
N.I.C. ——— NOT IN CONTRACT (NOT PART OF OSA APPROVAL)
NO. ——— NUMBER
NOM. ——— NOMINAL
NONCOM. ——— NON-COMBUSTIBLE
N.T.S. ——— NOT TO SCALE

O/ ——— OVER
O.A. ——— OVERALL
OBS. ——— OBSCURE
O.C. ——— ON CENTER
O.D. ——— OUTSIDE DIAMETER
O.F. ——— OVERFLOW
O.F.C.I. ——— OWNER FURNISH/ CONTRACTOR INSTALL
OFF. ——— OFFICE
O.F.O.I. ——— OWNER FURNISH/ OWNER INSTALL
O.F.S. ——— OUTSIDE FACE OF STUD
O.H.W.S. ——— OVAL HEAD WOOD SCREW
OPP. ——— OPPOSITE

P. ——— PAINT
P.C. ——— PLUMBING CONTRACTOR
P.C.F. ——— POUNDS PER CUBIC FOOT
P.E.N. ——— PANEL EDGE NAILING
PERF. ——— PERFORATED
PL. ——— PLATE
P.LAM. ——— PLASTIC LAMINATE
PLAS. ——— PLASTER
P.L.F. ——— POUNDS PER LINEAR FOOT
PLYWD. ——— PLYWOOD
P.M.F. ——— PRESSED METAL FRAME
PR. ——— PAIR
PRIN. ——— PRINTER
PROP. ——— PROPERTY
P.S.F. ——— POUNDS PER SQUARE FOOT
P.S.I. ——— POUNDS PER SQUARE INCH
P.STA. ——— PULL STATION
PTD. ——— PAINTED
P.T.D. ——— PAPER TOWEL DISPENSER
PT. ——— POINT
P.T.D.F. ——— PRESSURE TREATED DOUGLAS FIR
PTN. ——— PARTITION
P.T.R. ——— PAPER TOWEL RECEPTACLE
P.V.C. ——— POLYVINYL-CHLORIDE

Q.T. ——— QUARRY TILE

RAD. ——— RADIUS
R.B. ——— RUBBER BASE
R.C.P. ——— REFLECTED CEILING PLAN
R.D. ——— ROOF DRAIN
RDWD. ——— REDWOOD
REF. ——— REFERENCE
REFR. ——— REFRIGERATOR
REINF. ——— REINFORCING
REQD. ——— REQUIRED
RESIL. ——— RESILIENT
R.H. ——— ROOF HATCH
R.HK. ——— ROBE HOOK
R.H.M.S. ——— ROUND HEAD METAL SCREW
R.H.W.S. ——— ROUND HEAD WOOD SCREW
RM. ——— ROOM
R.O. ——— ROUGH OPENING
R.W.L. ——— RAIN WATER LEADER

S. ——— SOUTH
S.A.B. ——— SOUND ATTENUATION BATT
S.A.D. ——— SEE ARCHITECTURAL DRAWINGS
S.A.F.F. ——— SELF ADHERED FLEXIBLE FLASHING
S.A.S.M. ——— SELF ADHERED SHEET MEMBRANE
S.BLKG. ——— SOLID BLOCKING
S.C. ——— SOLID CORE
S.C.D. ——— SEE CIVIL DRAWINGS
S.D. ——— STORM DRAIN
S.DISP. ——— SOAP DISPENSER
SEAL. ——— SEALANT
SECT. ——— SECTION
S.E.D. ——— SEE ELECTRICAL DRAWINGS
SHR. ——— SHOWER
SHT. ——— SHEET
SHTG. ——— SHEATHING
SIM. ——— SIMILAR
SL. ——— SLIDING
S.L.D. ——— SEE LANDSCAPE DRAWINGS
S.M.D. ——— SEE MECHANICAL DRAWINGS
S.N.D. ——— SANITARY NAPKIN DISPOSAL
S.N.V. ——— SANITARY NAPKIN DISPENSER
S.P. ——— SOUNDPROOF
SPEC. ——— SPECIFICATION
SQ. ——— SQUARE
SQ. FT. ——— SQUARE FOOT (FEET)
S.S. ——— SANITARY SEWER
S.S.D. ——— SEE STRUCTURAL DRAWINGS
STA. ——— STATION
STD. ——— STANDARD
STL. ——— STEEL
S. STL. ——— STAINLESS STEEL
STO. ——— STORAGE
STRUC. ——— STRUCTURAL
SUSP. ——— SUSPENDED

T.B. ——— TACKBOARD
T&BOT. ——— TOP AND BOTTOM
TEL. ——— TELEPHONE
TEMP. ——— TEMPERED
TER. ——— TERRAZZO
T&G. ——— TONGUE AND GROOVE
THK. ——— THICK
T.J. ——— TOOL JOINT
T.N. ——— TOE NAIL
TOIL. ——— TOILET
T.O.C. ——— TOP OF CURB
T.O.P. ——— TOP OF PAVEMENT
T.O.PL. ——— TOP OF PLATE
T.O.S. ——— TOP OF SEAT
T.O.W. ——— TOP OF WALL
T.P.D. ——— TOILET PAPER DISPENSER
TRN. ——— TRANSOM
T.S.C.D. ——— TOILET SEAT COVER DISPENSER
T.S. ——— TUBE STEEL
T.V. ——— TELEVISION
TYP. ——— TYPICAL

UC ——— UNDER COUNTER
UNF. ——— UNFINISHED
U.N.O. ——— UNLESS NOTED OTHERWISE
UR. ——— URINAL
U/S ——— UNDERSIDE

V.C.T. ——— VINYL COMPOSITION TILE
VERT. ——— VERTICAL
VEST. ——— VESTIBULE
V.G. ——— VERTICAL GRAIN
V.I.F. ——— VERIFY IN FIELD
V.T. ——— VINYL TILE
V.T.R. ——— VENT TO ROOF
V.W.C. ——— VINYL WALL COVERING

W. ——— WEST
W/ ——— WITH
W/IN ——— WITHIN
W.C. ——— WATER CLOSET
WD. ——— WOOD
WDW. ——— WINDOW
W.F. ——— WATER COOLER
W.H. ——— WATER HEATER
W/O ——— WITHOUT
W.P. ——— WATER PROOF
W.R. ——— WATER RESISTANT
WT. ——— WEIGHT
W.W.F. ——— WELDED WIRE FABRIC

YD. ——— YARD

ABBREVIATIONS

ISSUED FOR CONSTRUCTION

CHAMPLIN ARCHITECTURE

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OPC - 4
GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SR
Checked By: CAS
Client Number: 627
Project Number: 6981-12

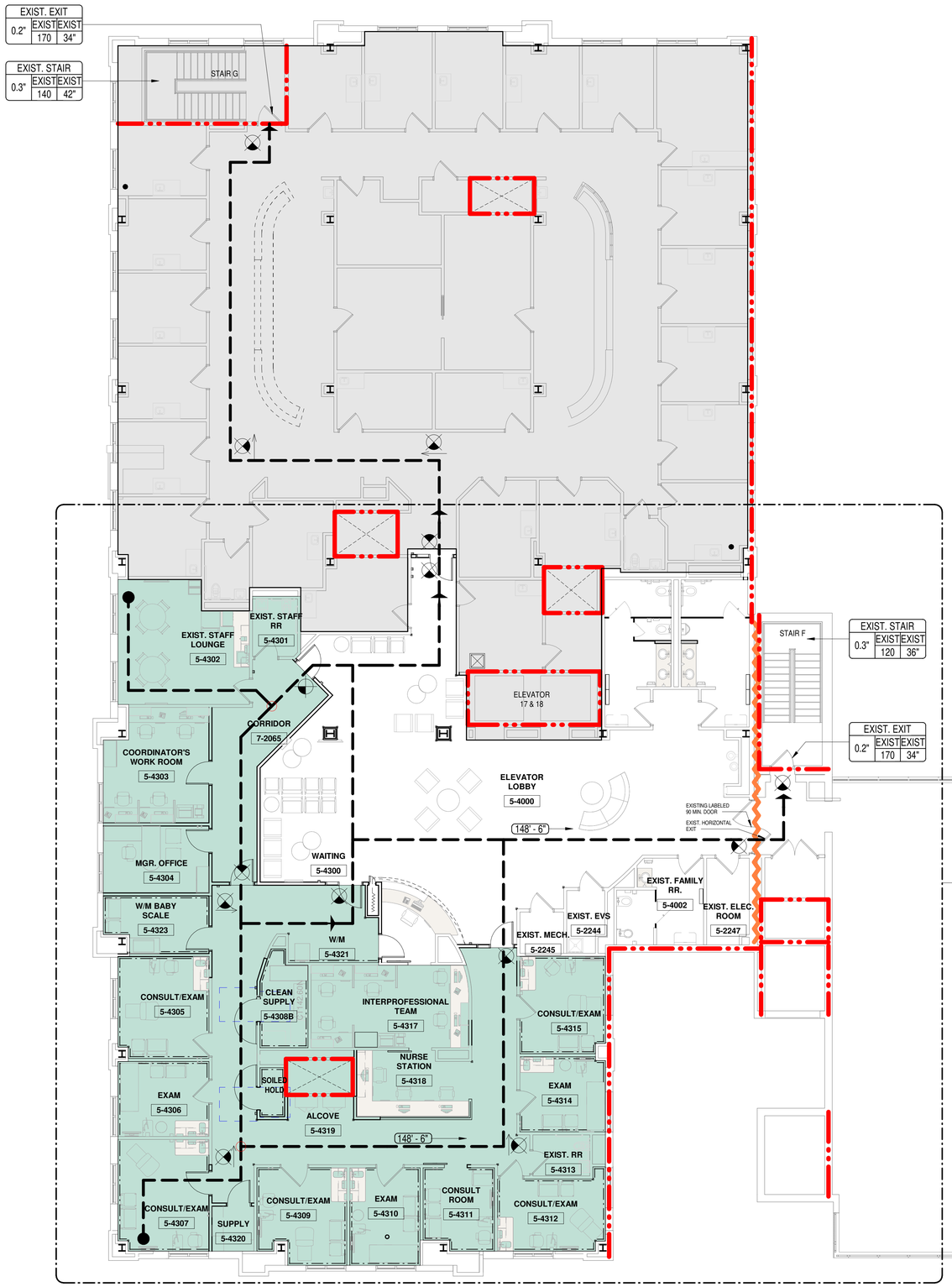
STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
GENERAL NOTES

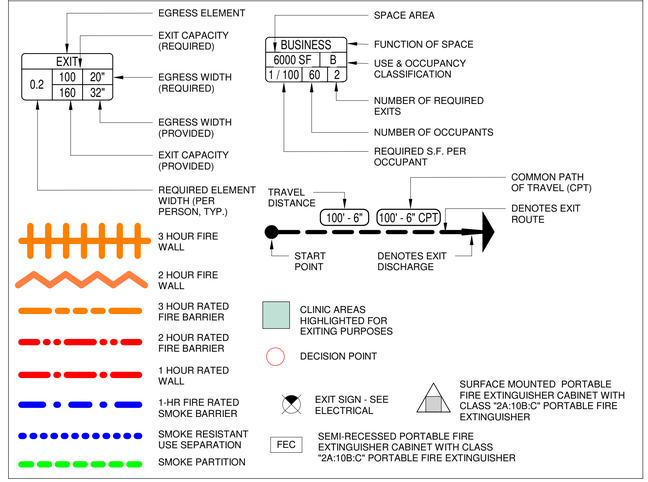
SHEET NO.
G-002

7/16/2025 9:39:39 AM



NO WORK IN THE GRAY HATCHED AREA.

LIFE SAFETY LEGEND



1 LS-100 LEVEL 4 LIFE SAFETY OVRALL
1/8" = 1'-0"

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SR
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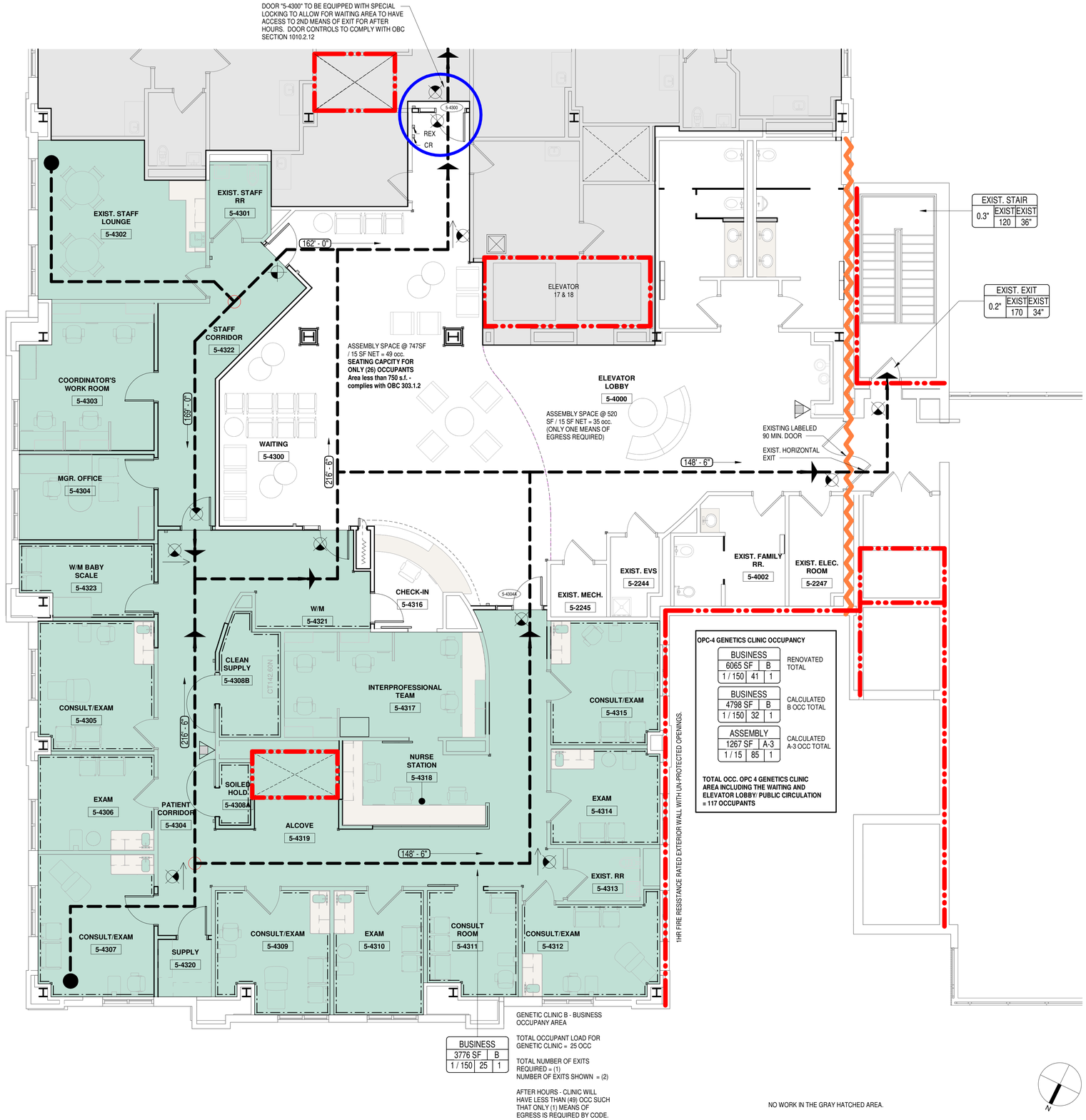
STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
LIFE SAFETY

SHEET NO.
LS-100

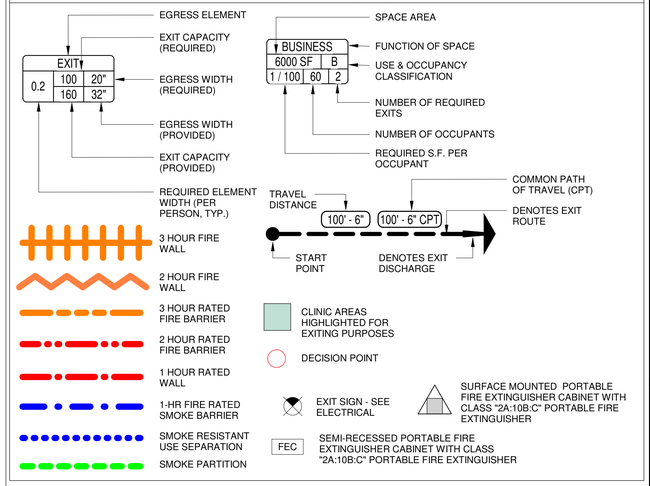
7/16/2025 9:41:22 AM

ISSUED FOR CONSTRUCTION



1 LS-101 LEVEL 4 LIFE SAFETY - ENLARGED
3/16" = 1'-0"

LIFE SAFETY LEGEND



SPECIAL LOCKING - CODE REQUIREMENTS

SENSOR RELEASE OF ELECTRONICALLY LOCKED EGRESS DOORS (OBC 1010.2.12) FAIL SAFE

ELECTRONIC LOCKS ON SENSOR RELEASED DOORS LOCATED IN A MEANS OF EGRESS IN OCCUPANCY TYPE B-BUSINESS OCCUPANCIES ARE PERMITTED WHERE INSTALLED AND OPERATED IN ACCORDANCE WITH ALL OF THE FOLLOWING CRITERIA:

1. SENSOR SHALL BE INSTALLED ON THE EGRESS SIDE, ARRANGED TO DETECT AN OCCUPANT APPROACHING THE DOORS.
2. THE DOORS SHALL BE ARRANGED UPON LOSS OF POWER TO THE SENSOR. ALLOWING FREE EGRESS.
3. LOSS OF POWER TO THE LOCK OR LOCKING SYSTEM SHALL AUTOMATICALLY UNLOCK THE DOORS. ALLOWING FREE EGRESS.
4. DOORS SHALL BE ARRANGED TO UNLOCK FROM A MANUAL UNLOCKING DEVICE LOCATED 40 INCHES TO 48 INCHES VERTICALLY ABOVE THE FLOOR AND WITHIN 5 FEET OF THE SECURED DOORS. READY ACCESS SHALL BE PROVIDED TO MANUAL UNLOCKING DEVICE AND THE DEVICE SHALL BE CLEARLY IDENTIFIED BY A SIGN THAT READS "PUSH TO EXIT". WHEN OPERATED, THE MANUAL UNLOCKING DEVICE SHALL RESULT IN DIRECT INTERRUPTION OF POWER TO THE ELECTRONIC LOCK - INDEPENDANT OF OTHER ELECTRONICS - AND THE ELECTRIC LOCK SHALL REMAIN UNLOCKED FOR NOT LESS THAN 30 SECONDS.
5. ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, WHERE PROVIDED, SHALL AUTOMATICALLY UNLOCK THE ELECTRIC LOCK, AND THE ELECTRIC LOCK SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.
6. ACTIVATION OF THE BUILDING AUTOMATIC SPRINKLER SYSTEM OR FIRE DETECTION SYSTEM, SHALL AUTOMATICALLY UNLOCK THE DOORS.
7. EMERGENCY LIGHTING SHALL BE PROVIDED ON THE EGRESS SIDE OF THE DOOR.
8. THE DOOR LOCKING SYSTEM SHALL BE LISTED IN ACCORDANCE WITH UL 294.

DOOR 5-4300 - HARDWARE NARRATIVE

SENSOR RELEASE OF ELECTRONICALLY LOCKED EGRESS DOORS (OBC 1010.2.12) FAIL SAFE

NORMAL CLINIC OPERATING / OPEN HOURS:

- DOOR WILL BE FREE EGRESS FROM CLINIC SIDE TO THE BUILDING HORIZONTAL EXIT AS THE SECOND MEANS OF EGRESS.
- DOOR WILL BE FREE EGRESS FROM THE WAITING AREA TO THE SOUTHWEST STAIRWELL EXIT AS THE SECOND MEANS OF EGRESS.
- ELECTRONIC STRIKE IS DISABLED.
- CARD READER IS DISABLED.
- REQUEST TO EXIT BUTTON IS DISABLED.
- HAND SWIPE SENSORS TO OPERATE THE AUTO-OPERATORS

AFTER HOURS OPERATIONS:

- CARD READER TO BE ACTIVATED.
- ELECTRIC STRIKE TO BE ACTIVATED.
- FROM CLINIC SIDE OF THE DOOR, "GODS EYE" SENSOR TO RELEASE THE ELECTRIC LOCKING DEVICE. DOOR ALSO IS MECHANICALLY FREE EGRESS AT ALL TIMES
- FROM THE WAITING AREA 5-4300, REQUEST TO EXIT BUTTON LOCATED ON THE ADJACENT WALL (AS INDICATED BY "REX" SYMBOL ON THE PLAN) WILL OVERRIDE THE CARD READER AND ELECTRIC STRIKE IF PRESSED, LEADING TO PASSAGE THROUGH CLINICS TO EITHER SOUTHWEST STAIRWELL EXIT. ELECTRIC LOCK TO REMAIN UNLOCKED FOR 30 SECONDS BEFORE RESETTING.
- GOD'S EYE SENSOR ON WAITING ROOM SIDE OF THE DOOR TO UNLOCK DOOR OR PRESSING THE REQUEST TO EXIT BUTTON TO UNLOCK THE DOOR THEN A LEVER TURN DISENGAGES THE LATCHES THUS ALLOWING FOR EGRESS.

CODE COMPLIANCE

- ALL DOOR ELECTRONIC LOCKING SYSTEMS WILL DISABLE UPON LOSS OF POWER, ACTIVATION OF THE FIRE ALARM, OR ACTIVATION OF THE FIRE SPRINKLER SYSTEM. DOOR BECOMES FREE EGRESS.
- EMERGENCY LIGHTING ON BOTH SIDES OF THE DOOR AS INDICATED
- HARDWARE WILL COMPLY WITH UL 294 REQUIREMENTS

NOTE: DOOR HARDWARE CUT SHEETS WILL BE SENT OVER TO THE CITY ONCE OBTAINED TO SHOW COMPLIANCE WITH UL 294 STANDARDS

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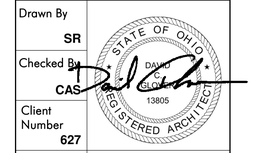
OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SR
Checked By: CAS
Client Number: 627
Project Number: 6981-12



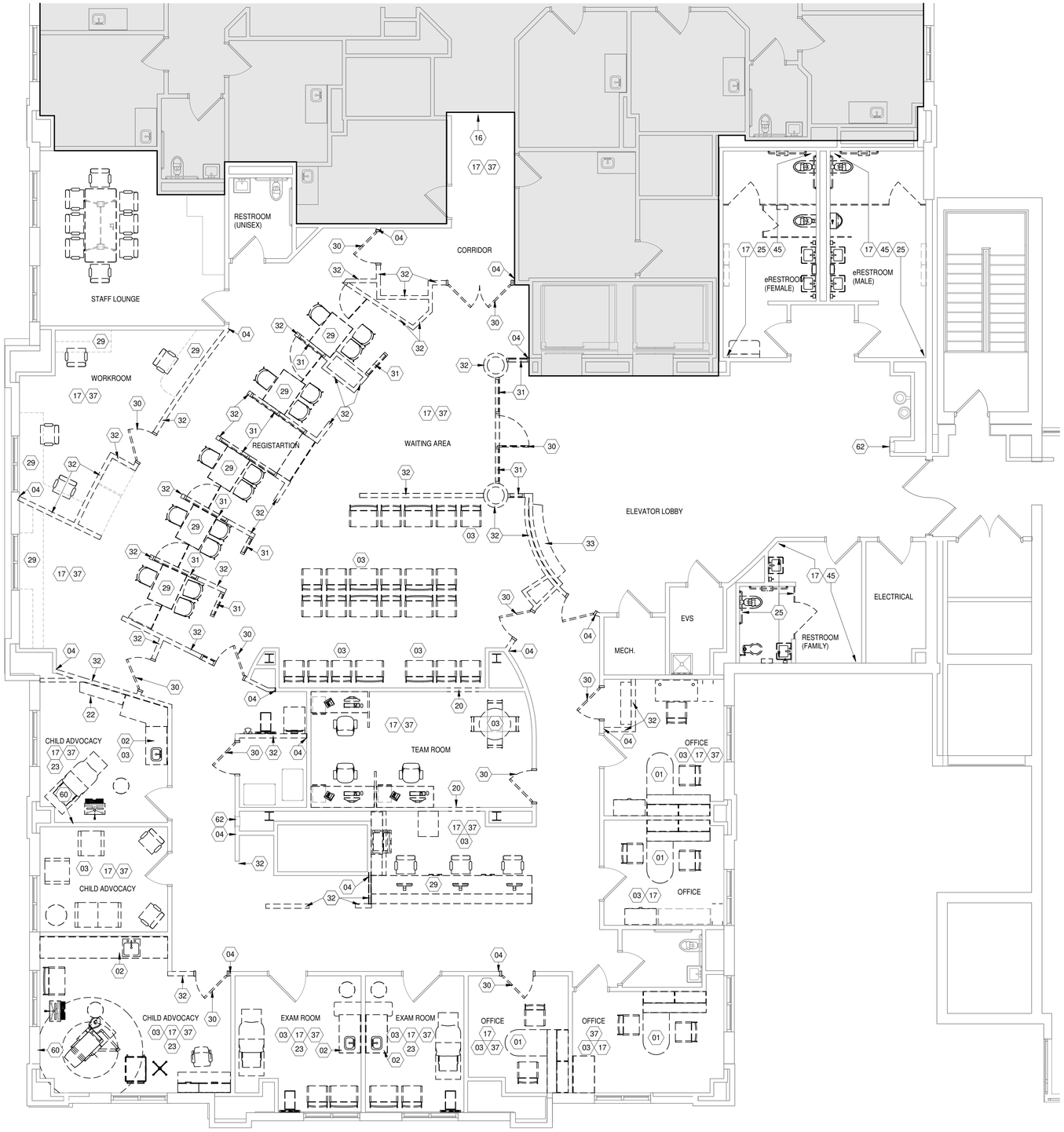
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
LIFE SAFETY - ENLARGED

SHEET NO.
LS-101

7/16/2025 9:39:44 AM

ISSUED FOR CONSTRUCTION



1 AD-101 DEMO FLOOR PLAN
3/16" = 1'-0"

GENERAL NOTES - DEMO

A. REFER TO SHEET G-002 FOR ADDITIONAL DEMOLITION GENERAL NOTES.
B. REFER TO OTHER DISCIPLINE DEMOLITION DRAWINGS FOR NON-ARCHITECTURAL DEMOLITION WORK.
C. PROTECT EXISTING SPRINKLER HEADS AND PIPING, AS REQUIRED FOR DURATION OF PROJECT.
D. ANY TEMPORARY BARRICADES, AS REQUIRED BY OWNER, SHALL BE SET ON MASONITE AND ELASTOMERIC MEMBRANE TO PROTECT THE EXISTING FINISH FLOORING MATERIAL. BARRICADE SHALL EXTEND TO EXISTING FLOOR DECK ABOVE AS PER THE OWNER'S INFECTIOUS CONTROL POLICIES.

DRAWING NOTES

01 REMOVE EXISTING MODULAR CASEWORK DESK, PULL ALL LOW VOLTAGE AND POWER CIRCUITS BACK TO PANELS AS REQUIRED.
02 REMOVE EXISITNG CASEWORK AND PLUMBING FIXTURES. REMOVE EXISTING PLUMBING SUPPLY LINES BACK TO MAIN SUPPLY LINES, ENSURE THERE ARE NO "DEAD LEGS".
03 REMOVE ANY LEFTOVER FURNITURE OR FFE ITEMS STILL IN THE PROJECT AREA.
04 PATCH/TOUCH UP AREA OF EXISTING WALL. MATCH ADJACENT FINISHES.
16 LINE OF FLOORING MATERIAL DEMO, REFER TO FINISH PLAN.
17 REMOVE EXISTING FLOORING MATERIAL. SCRAPE DOWN AND PREPARE EXISTING SUBSTRATE REQUIRED TO MATCH ADJACENT.
20 REMOVE EXISTING METAL STUDS AND GYPSUM BOARD TO 7'-2"A.F.F. FOR FUTURE DOOR AND FRAME INSTALLATION, REFER TO NEW WORK PLAN.
22 REMOVE BUILT-IN CASEWORK IN LOCATION INDICATED ON PLAN.
23 REMOVE EXISTING WALL PROTECTION.
25 REMOVE EXISTING RESTROOM PLUMBING FIXTURES, TOILET ACCESSORIES, AND ANY TOILET PARTITIONS.
29 REMOVE EXISTING MILLWORK DESK, PULL ALL LOW VOLTAGE AND POWER CIRCUITS BACK TO PANELS AS REQUIRED.
30 REMOVE EXISTING DOOR AND FRAME.
31 REMOVE EXISTING INTERIOR WINDOW SYSTEM.
32 REMOVE EXISTING WALL PARTITION IN ITS ENTIRETY.
33 EXISTING MECHANICAL DIFFUSERS TO REMAIN, CLEAN AS REQUIRED.
37 EXISTING WALL BASE TO BE REMOVED.
45 REMOVE EXISTING WALL FINISH BASE THROUGHOUT ENTIRE ROOM. PATCH AND REPAIR EXISTING WALL SHEATHING/GYPSUM BOARD UNDERLAY AS REQUIRED FOR INSTALLATION OF NEW FINISH.
60 REMOVE MED GAS INFRASTRUCTURE BACK TO VALVE.
62 EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET, TO REMAIN.

LEGEND - DEMO FLOOR PLAN

REMOVE HM FRAME, DOOR, AND HARDWARE

REMOVE WALLS (OR PORTION THEREOF) OR PARTITION/ FIXTURES/ CASEWORK/ EQUIPMENT/ FURNITURE

REMOVE FIXTURES/ CASEWORK/ EQUIPMENT/ FURNITURE

EXISTING DOOR AND HM FRAME TO REMAIN

EXISTING WALL TO REMAIN

EXISTING. FIXTURES/ CASEWORK/ EQUIPMENT/ FURNITURE TO REMAIN

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
DEMO FLOOR PLAN

SHEET NO.
AD-101

7/16/2025 9:41:14 AM

ISSUED FOR CONSTRUCTION

1 AD-111 LEVEL 4 DEMO
3/16" = 1'-0"

RCP GENERAL NOTES

A. REFER TO SHEET G-002 FOR ADDITIONAL DEMOLITION GENERAL NOTES.
B. REFER TO OTHER DISCIPLINE DEMOLITION DRAWINGS FOR NON-ARCHITECTURAL DEMOLITION WORK.
C. PROTECT EXISTING SPRINKLER HEADS AND PIPING, AS REQUIRED FOR DURATION OF PROJECT.
D. ANY TEMPORARY BARRICADES, AS REQUIRED BY OWNER, SHALL BE SET ON MASONITE AND ELASTOMERIC MEMBRANE TO PROTECT THE EXISTING FINISH FLOORING MATERIAL. BARRICADE SHALL EXTEND TO EXISTING FLOOR DECK ABOVE AS PER THE OWNER'S INFECTIOUS CONTROL POLICIES.

DRAWING NOTES

05	REMOVE EXISTING CAN LIGHTING FIXTURES.
06	REMOVE EXISTING CEILING FIXTURES. EXISTING CEILING TILES AND GRID TO REAMIN, CLEAN/ REAPIR EXISTING CEILING AS REQUIRED.
07	REMOVE EXISTING ACT TILE AND GRID, REINSTALL NEW GRID AND ACT TILE PER NEW WORK PLAN.
08	EXISTING CEILING TO REMAIN.
10	EXISTING LIGHTING FIXTURES AND MECHANICAL DIFFUSERS TO BE REMOVED.
12	LINE OF WORK FOR REMOVAL OF EXISTING SUSPENDED CEILING TILE AND GRID, REFER TO NEW WORK PLAN.
57	REMOVE EXISTING MECHANICAL DIFFUSERS AND REPLACE WITH NEW.
58	REMOVE EXISITNG CEILING MOUNTED EXAM LIGHT, TURN OVER TO OWNER.
63	REMOVE EXISTING CEILING TILES. EXISTING CEILING GRID TO REMAIN, CLEAN/ REPAIR CEILING GRID AS NEEDED.

RCP LEGEND

DEMO

- NEW LED LIGHT FIXTURE
- NEW MECHANICAL GRILLES
- NEW RECESSED LED DOWN LIGHT
- NEW GYPSUM BOARD CEILING / SOFFIT / BULKHEAD
- NEW 2' X 2' SUSPENDED ACOUSTICAL PANEL
- NEW TYPICAL SUSP. CEILING : ACT-1, U.N.O.
- NEW TYPICAL SUSP. CEILING : HEIGHT : 8'-0", U.N.O.

EXISTING

- EXISTING RECESSED LIGHT FIXTURE
- EXISTING MECHANICAL GRILLES
- NEW RECESSED LED DOWN LIGHT
- NEW GYPSUM BOARD CEILING / SOFFIT / BULKHEAD
- NEW 2' X 2' SUSPENDED ACOUSTICAL PANEL
- NEW TYPICAL SUSP. CEILING : ACT-1, U.N.O.
- NEW TYPICAL SUSP. CEILING : HEIGHT : 8'-0", U.N.O.

REFER TO M.E.P. DOCUMENTS FOR SMOKE DETECTOR AND EXIT SIGN LOCATIONS.

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

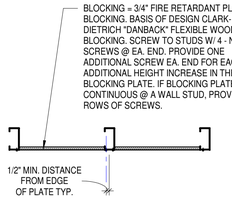
DAVID C. GLOVER LICENSE #13805 EXPIRATION DATE 12/31/2025

DRAWING TITLE
DEMO RCP

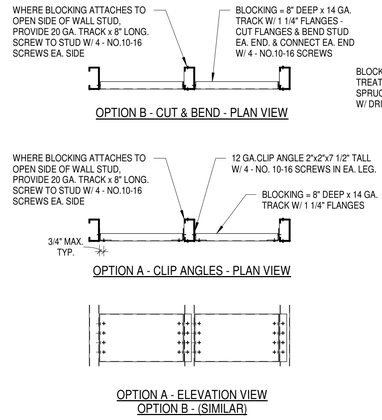
SHEET NO.
AD-111

7/16/2025 9:41:18 AM

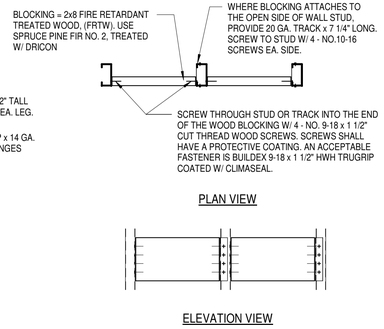
ISSUED FOR CONSTRUCTION



WALL BLOCKING TYPE A



WALL BLOCKING TYPE B



WALL BLOCKING TYPE C

NOTES:

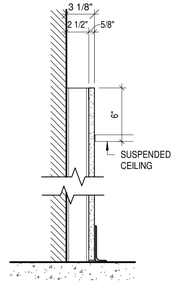
WALL BLOCKING TYPE A:
TO BE USED FOR WALL MOUNTED ITEMS FOR ALL UPPER WALL MOUNTED CASEWORK AND WALL MOUNTED EQUIPMENT UP TO 600 LBS PER LINEAL FOOT INCLUDING ALL A/V EQUIPMENT. OTHER ITEMS APPROVED FOR THIS BLOCKING ARE WALL MOUNTED MILLWORK, HANDRAILS, GUARDRAILS, GRAB BARS, ETC.

WALL BLOCKING TYPE B:
TO BE USED FOR SMALL WALL MOUNTED EQUIPMENT, ITEMS SUCH AS SOAP DISPENSERS, DOOR STOPS, MIRRORS, CLOTHES HOOKS, ETC. WHICH WEIGH OR SUPPORT WEIGHTS LESS THAN 25 POUNDS.

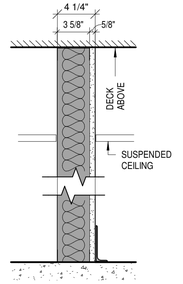
WALL BLOCKING TYPE C:
TO BE USED FOR ALL OTHER WALL MOUNTED EQUIPMENT ABOVE 500LBS PER LINEAL FOOT.

THE CONTRACTOR MUST COORDINATE WITH ALL TRADES TO DETERMINE WHICH TYPE OF WALL BLOCKING IS REQUIRED FOR EACH WALL MOUNTED ITEM. ALL ANCHORS SHALL EXTEND THROUGH THE WALL FINISH INTO THE BLOCKING. AVOID THE USE OF PLASTIC TYPE ANCHOR DEVISES. MANUFACTURERS OF THE WALL MOUNTED ITEMS MUST PROVIDE THE PULLOUT AND SHEAR FORCES AT THE ANCHORS DUE TO THE WEIGHT OF THE ITEM AS WELL AS THE LOADS THAT ARE REQUIRED TO BE SUPPORTED BY THE ITEM AS MANDATED BY THE GOVERNING AUTHORITY. ANCHORS MUST HAVE ADEQUATE STRENGTH TO SUPPORT THESE FORCES. CONTRACTOR HAS THE OPTION TO USE A PROPRIETARY BLOCKING SYSTEM WHICH MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

TYP. BLOCKING DETAILS

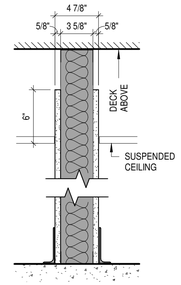


TYPE C3
FURRING WALL/ COLUMN WRAP, UNO.
ONE LAYER OF 5/8" GYPSUM BOARD ON ROOM SIDE OF 2-1/2" 20 GA. METAL STUDS @16" O.C. EXTEND STUDS AND BOARD TO 6" ABOVE CEILING, ATTACHED TO STRUCTURE AS REQUIRED. SEE PARTITION NOTES ON THIS SHEET.



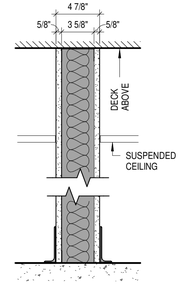
TYPE A3
ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF 3-5/8" 20 GA. METAL STUDS @16" O.C. EXTEND STUDS FULL HEIGHT TO DECK ABOVE. ATTACH TO STRUCTURE ABOVE W/ VERTICAL SLIP CONNECTIONS. INSTALL SOUND BATT INSULATION TO DECK ABOVE

TYPE A3a
NO SOUND BATT



TYPE A2
ONE LAYER OF 5/8" GYPSUM WALLBOARD ON EACH SIDE TO DECK ABOVE OVER 3-5/8" 20 GA. METAL STUDS @ 16" O.C. EXTEND STUDS 6" ABOVE CEILING TO DECK ABOVE. ATTACH TO STRUCTURE ABOVE W/ VERTICAL SLIP CONNECTIONS. INSTALL SOUND BATT INSULATION TO DECK ABOVE.

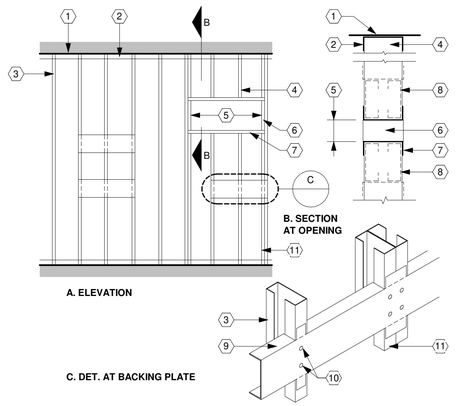
TYPE A2a
NO SOUND BATT



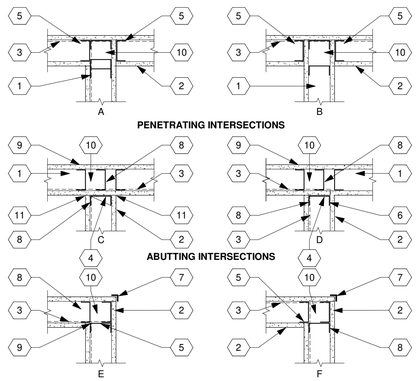
TYPE A1
ONE LAYER OF 5/8" GYPSUM WALLBOARD ON EACH SIDE TO DECK ABOVE OVER 3-5/8" 20 GA. METAL STUDS @ 16" O.C. EXTEND STUDS FULL HEIGHT TO DECK ABOVE. ATTACH TO STRUCTURE ABOVE W/ VERTICAL SLIP CONNECTIONS. INSTALL SOUND BATT INSULATION TO DECK ABOVE.

PARTITION NOTES:

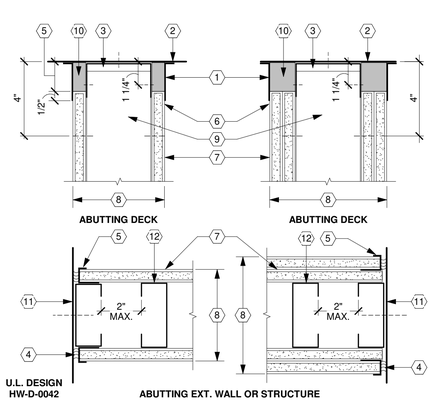
1. TYPICAL PARTITION TYPE IS "A3", UNLESS NOTED OTHERWISE ON PLAN.
2. BUILD PARTITIONS IN ACCORDANCE WITH PARTITION SCHEDULE AND DESIGN REFERENCED. REFERENCES ARE TO LATEST EDITION OF GYPSUM ASSOCIATION (GA) FIRE RESISTANCE DESIGN MANUAL, OR TO UNDERWRITERS LABORATORY (UL) FIRE RESISTANCE DIRECTORY.
3. ALL WALLBOARD IS TO BE TYPE "X" UNLESS NOTED OTHERWISE.
4. PARTITION TYPES INDICATED ARE CONTINUOUS TO A CORNER OR AN INTERSECTING PARTITION, UNLESS INDICATED OTHERWISE. WHERE PARTITIONS OF DIFFERENT THICKNESSES MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS NOTED OTHERWISE.
5. METAL STUD GAUGES SCHEDULED ARE THE MINIMUM REQUIRED, AND MAY BE INCREASED BY SPECIFICATIONS TO ACCOMMODATE LOADS, FINISHES, OR UNBRACED CEILING HEIGHT LIMITS. DO NOT CONSIDER CEILING SYSTEM(S) AS A PARTITION BRACING ELEMENT.
   SOUND ATTENUATION BATT (SAB) IS TO BE PLACED IN ALL PARTITIONS THAT ENCLOSE A ROOM UNLESS NOTED OTHERWISE.
6. WOOD AND PLYWOOD BLOCKING TO BE FIRE RETARDANT TREATED (FRTW).
7. EDGES OF GYPSUM WALL BOARD (GWB) LEFT EXPOSED TO VIEW, OR ABUTTING DISSIMILAR MATERIAL, ARE TO BE FINISHED WITH METAL "J" BEAD TRIM AND COMPOUND UNLESS NOTED OTHERWISE.
8. SCHEDULING OF A PARTITION DESIGN WHICH CARRIES A FIRE RATING DOES NOT IMPLY A FIRE SEPARATION FUNCTION FOR THAT PARTITION. LOCATIONS OF FIRE AND SMOKE PARTITIONS ARE INDICATED ON THE LIFE SAFETY PLAN (SHEET LS-101)
9. PARTITION SCHEDULE IS BASED ON THE USE OF GYPSUM WALL BOARD (GWB), BUT FACING BOARD MAY VARY. DEPENDENT ON FINAL FINISH SCHEDULED FOR THAT PARTITION: USE CEMENTITIOUS BACKER BOARD (CBB) WHERE CERAMIC TILE SCHEDULED IN "WET" AREAS, MOISTURE-RESISTANT BOARD (MR) WHERE CERAMIC TILE SCHEDULED IN "DRY" AREAS, AND GYPSUM LATH (BLUE BOARD) WHERE VENEER PLASTER IS SCHEDULED. SEE FINISH SCHEDULE FOR PARTICULARS. AT ALL PLUMBING FIXTURES, INSTALL 4X8 (MR) MOISTURE-RESISTANT BOARD CENTERED ON FIXTURE.
10. ALL FIRE-RATED WALL AND FLOOR PENETRATION MUST COMPLY WITH ASTM-E814.
11. ALL DOOR OPENINGS SHALL BE 4" FROM A PERPENDICULAR PARTITION TO OUTSIDE FACE OF FRAME, UNLESS NOTED OR DETAILED OTHERWISE.
12. ALL PARTITIONS, INCLUDING STUDS, BOARD, SOUND ATTENUATION BLANKETS, ETC. TO EXTEND FROM TOP OF FLOOR SLAB TO UNDERSIDE OF CONCRETE SLAB ABOVE UNLESS OTHERWISE NOTED.
13. CONTRACTOR IS TO CLOSE OFF ANY VOIDS LEFT AS A RESULT OF ANY REMOVALS AND NEW CONSTRUCTION, AS WELL AS INFILL ANY EXISTING VOIDS IN NEWLY DESIGNATED FIRE RATED PARTITIONS. ALL PATCHES SHALL MATCH AND ALIGN WITH SURROUNDING MATERIALS AND SHALL BE IN ACCORDANCE WITH OHIO BUILDING CODE (OBC).
14. REFER TO NEW ARCHITECTURAL FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS.
15. CONTRACTOR SHALL SEAL PARTITION WALLS AROUND ALL M.E.P. PENETRATIONS OR OPENINGS, RESULTING FROM M.E.P. INSTALLATIONS INCLUDING BUT NOT LIMITED TO THE SLAB, ABOVE AND BELOW CEILINGS.
16. NO EXISTING FIREPROOFING IS TO BE REMOVED FROM EXISTING BUILDING STRUCTURE FOR ANY NEW INSTALLATION FOR ANY REASON.
17. IN AREAS OF TOILET ROOMS AND OTHER PLUMBING FIXTURES SUCH AS MOP BASINS, SINKS, SHOWERS, TOILETS, ETC., A TYPE 'X' MOISTURE-RESISTANT GYPSUM WALLBOARD SHALL BE USED FOR THE WALL CONSTRUCTION. WHERE CERAMIC TILE IS SCHEDULED, CEMENTITIOUS BOARD SHALL BE USED FOR THE WALL CONSTRUCTION.
18. UNLESS NOTED, THE CONNECTION AT THE TOP OF THE PARTITION TO THE STRUCTURE ABOVE MUST ALLOW FOR 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. AT FIRE-RATED METAL STUD PARTITIONS, THE TOP CONNECTION MUST BE A FIRE STOP CONNECTION THAT ALLOWS 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. HOLD GYPSUM WALL BOARD AND STEEL STUDS 1" FROM THE BOTTOM OF THE STRUCTURE ABOVE. DO NOT SCREW ATTACH STEEL VERTICAL STUDS OR GYPSUM WALL BOARD TO THE TOP TRACK. INSTALL BRIDGING 12" MINIMUM FROM THE TOP OF THE STUDS.
19. UNLESS NOTED, THE CONNECTION AT THE TOP OF THE PARTITION TO THE STRUCTURE ABOVE MUST ALLOW FOR 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. AT FIRE-RATED METAL STUD PARTITIONS, THE TOP CONNECTION MUST BE A FIRE STOP CONNECTION THAT ALLOWS 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. HOLD GYPSUM WALL BOARD AND STEEL STUDS 1" FROM THE BOTTOM OF THE STRUCTURE ABOVE. DO NOT SCREW ATTACH STEEL VERTICAL STUDS OR GYPSUM WALL BOARD TO THE TOP TRACK. INSTALL BRIDGING 12" MINIMUM FROM THE TOP OF THE STUDS.



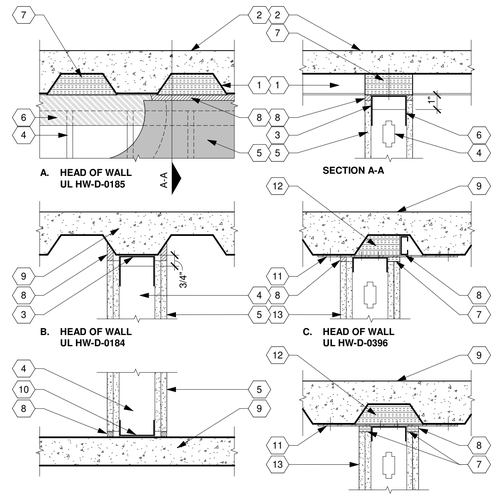
1. STRUCTURAL DECK.
2. RUNNER TRACK SECURED TO STRUCTURE W/ POWER DRIVEN FASTNERS @ 24" O.C. MAX.
3. METAL STUD FRAMING, SEE PARTITION TYPES.
4. STUD CRIPPLES @ 16" O.C.
5. WALL OPENING - 48" MAX. WIDTH AS SHOWN. FOR LARGER OPENINGS SEE ALTERNATE FRAMING - DETAIL "B".
6. STUD CRIPPLES SECURED TO ADJACENT VERTICAL STUDS.
7. RUNNER TRACK AT SPANS TO 4 FT. SEE ALT. FRAMING FOR LARGER OPEN. - DETAIL "B".
8. ALTERNATE FRAMING (OPENINGS FROM 4 TO 8 FT.)-SUPPORT RUNNER TRACK ON 2 HORIZ. 6" METAL STUDS (SHOWN W/ BROKEN LINES) SCREW ATTACH OR WELD TO VERT. FRAMING.
9. BACKING PLATE- 6" RUNNER TRACK. NOTCH AND OPEN FLANGES AS SHOWN AT VERT. FRAMING MEMBERS.
10. TWO 3/8" TYPE S BUGLE-HEAD SCREWS @ EA. VERTICAL STUD.
11. DOUBLE STUD AT ALL FRAMING OPENINGS MORE THAN 24" WIDE.



1. STUD HEADER AND SILL CONT. AT PARTITION HEAD AND BASE.
2. GYPSUM BOARD - SEE CODE TO PARTITION TYPES FOR REQUIREMENTS.
3. PARTITION BASE LAYER OR LEAD LINING WHERE SCHEDULED. SEE CODE TO PARTITION TYPES.
4. AT ABUTTING INTERSECTIONS SECURE STUDS TO HEAD AND SILL TRACK AND TO ABUTTING PARTITION FRAMING.
5. AT ALL PARTITON INTERSECTIONS, SECURE STUDS TO BOTH TRACKS AND TO INTERSECTING PARTITION FRAMING.
6. SEE PARTITION TYPES FOR STUD SIZE AND SPACING.
7. DRYWALL ACCESSORY. CORNER BEAD REQUIRED AT ALL OUTSIDE CORNERS.
8. LOCATE A WALL STUD AT THIS LOCATION AT ALL PARTITION INTERSECTIONS REGARDLESS OF NORMAL STUD SPACING.
9. FIRE RATED PARTITIONS - RUN GYPSUM BOARD CONTINUOUS PAST PARTITION INTERSECTIONS AT ALL FIRE RATED AND SMOKE BARRIER PARTITIONS.
10. STUD SPACER/NAILER.
11. SOUND SEALANT AT NOISE BARRIER PARTITIONS.



1. FIRE RESISTIVE JOINT SPRAY.
2. UNDERSIDE OF STRUCTURAL DECK OR MEMBER.
3. SLOTTED FIRESTOP / DEFLECTION TRACK. SECURE TO ABUTTING SURFACE.
4. SOUND SEAL MASTIC TO CLOSE JOINT.
5. NOMINAL JOINT WIDTH, 1/2" MIN. 1 3/4" MAX.
6. TO ALLOW FOR DECK MOVEMENT, DO NOT SECURE GYP. BD. TO HEAD TRACK.
7. FACE LAYER OF PARTITION-HOLD 3/8" FROM ABUTTING DISSIMILAR MATERIAL OR STRUCTURE.
8. SCHEDULED PARTITION. SEE PLANS AND PARTITION TYPES FOR DESCRIPTION.
9. VERTICAL STUD- HOLD TOP OF STUD 5/8" BELOW TOP OF HEAD TRACK. TO ALLOW FOR VERT. MOVEMENT.
10. CLOSE JT. W/ FIRE-SAFING INSULATION AT RATED PARTITIONS.
11. ABUTTING DISSIMILAR MATERIAL OR STRUCTURAL MEMBER. ISOLATE PARTITIONS FROM COL. WRAPS.
12. STUD REQUIRED REGARDLESS OF NORMAL SPACING.



1. STEEL FLOOR AND FORM UNITS.
2. CONCRETE.
3. STEEL FLOOR AND CEILING RUNNERS.
4. STUDS.
5. GYPSUM BOARD.
6. DEFLECTION CHANNEL.
7. FORMING MATERIAL.
8. FILL, VOID OR CAVITY MATERIAL.
9. FLOOR ASSEMBLY / ROOF ASSEMBLY.
10. STEEL FLOOR RUNNERS.
11. STEEL STRAPS.
12. FORMING MATERIAL PLUGS.
13. WALL ASSEMBLY.

4 A-001 WALL FRAMING AT OPENING & BACKING PLATES 1/8" = 1'-0"

3 A-001 PARTITION INTERSECTIONS 1/8" = 1'-0"

2 A-001 DRYWALL PARTITION PERIMETER RELIEF 1/8" = 1'-0"

1 A-001 JOINT SYSTEMS 1/8" = 1'-0"

ISSUED FOR CONSTRUCTION

CHAMPLIN ARCHITECTURE
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OPC - 4 GENETICS

ISSUANCES

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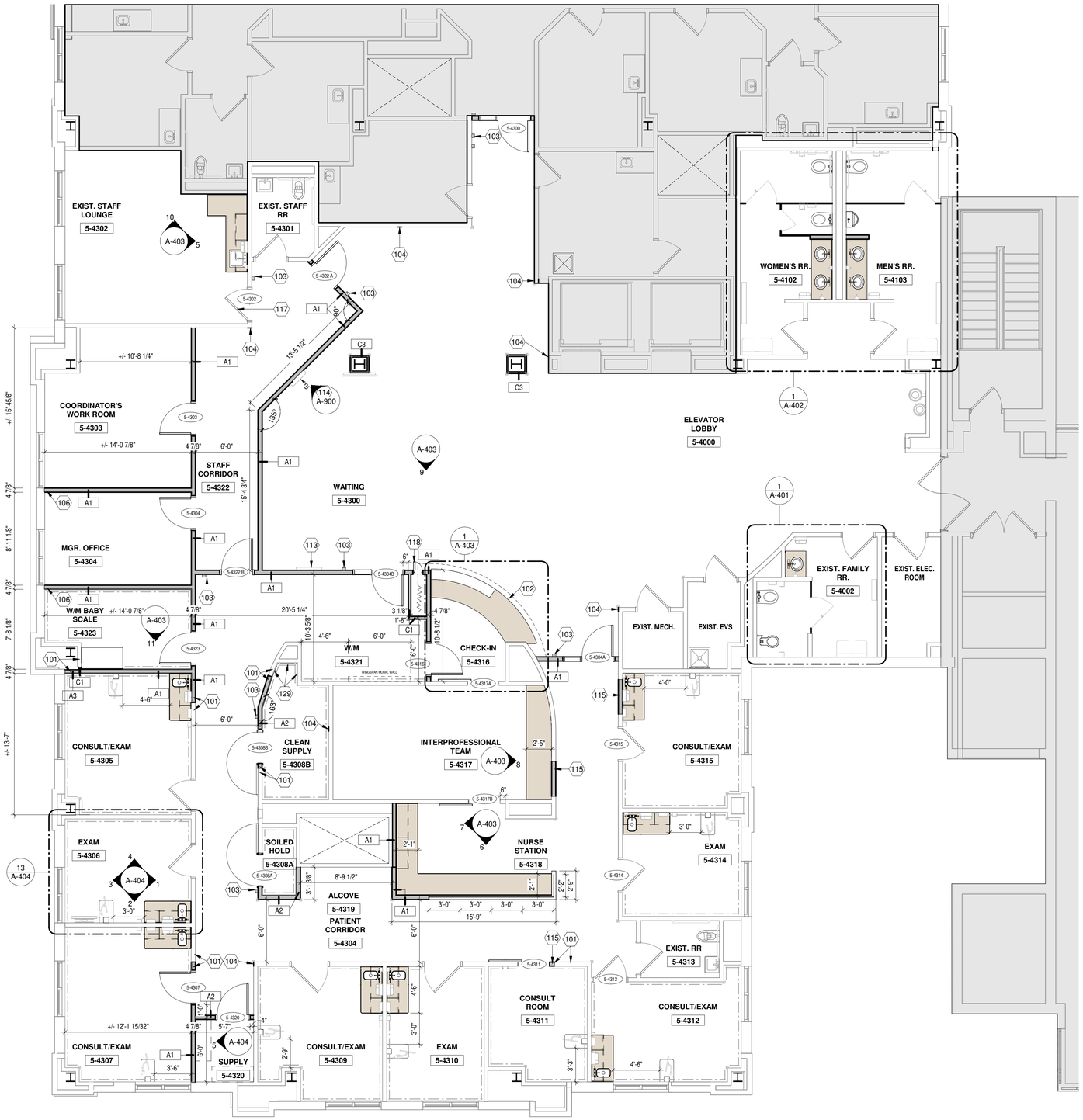
Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
WALL PARTITION INFORMATION

SHEET NO.
A-001

7/16/2025 9:39:36 AM



1 OPC 4 - GENETICS NEW WORK FLOOR PLAN
A-101 3/16" = 1'-0"

GENERAL NOTES - NEW WORK

A. ALL DIMENSIONS ARE FACE OF FINISH TO FACE OF FINISH.
B. PROVIDE WALL REINFORCING AT ALL WALL HUNG CASEWORK, FIXTURES, SPECIALTY EQUIPMENT, AND SHELVES.
C. PROVIDE / RE-INSTALL EXISITNG FIRE EXTINGUISHERS AS INDICATED ON LIFE SAFETY DRAWINGS AND PER NFPA 10. IF CABINETS ARE USED, INSTALL SO THAT THE CENTER OF THE DOOR OPENING HANDLE IS LOCATED NO HIGHER THAN 48" A.F.F.
D. REFER TO FINISH SCHEDULE AND LISTING ON SHEET "A-901".

DRAWING NOTES

101 ALIGN NEW WALL FINISH WITH ADJACENT FINISH, TYP.
102 INSTALL SECURITY GRILL S126 BY DYNAMIC ENCLOSURES WITH TOP AND BOTTOM LOCKING POST. SEE SHEET A501 FOR DETAIL.
103 INSTALL WALL MOUNTED SECURITY ACCESS CARD LOCATION FOR DOOR ACCESS, BOTTOM @ 46"A.F.F. REFER TO ELECTRICAL DRAWINGS.
104 PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH ADJACENT FINISHES.
106 VERIFY SOUND ATTENUATION @ WALL/WINDOW DETAIL. INSTALL ADDITIONAL IN WALL & ABOVE CEILING.
113 INSTALL WALL MOUNTED MARKETING/DIGITAL INFORMATION MONITOR, REFER TO DETAILS FOR POWER AND DATA REQUIREMENTS.
114 INSTALL WALL MOUNTED TOUCH-2-PLAY MONITOR (O.F.O.I.), REFER TO DETAILS FOR POWER AND DATA REQUIREMENTS.
115 INFILL EXISTING DOOR AND FRAME OPENING W/ METAL STUDS AND GYPSUM BOARD. MATCH EXISTING ADJACENT FINISHES.
117 MODIFY EXISTING DOOR HARDWARE ITEMS TO ADD IN ELECTRIC STRIKE IN THE FRAME AND CHANGE CYLINDER LOCKSET TO STORAGE FUNCTION.
118 INSTALL LOCKABLE PLASTIC LAMINATE FULL WALL HEIGHT SECURITY GATE ACCESS ALCOVE DOOR, MATCH ADJACENT MILLWORK COLOR AND GRAIN RUN.
129 APPLY NEW 5/8" GYPSUM WALL BOARD ON THE EXISTING STUDS.

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STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
NEW WORK FLOOR PLAN

SHEET NO.
A-101

7/16/2025 9:39:49 AM

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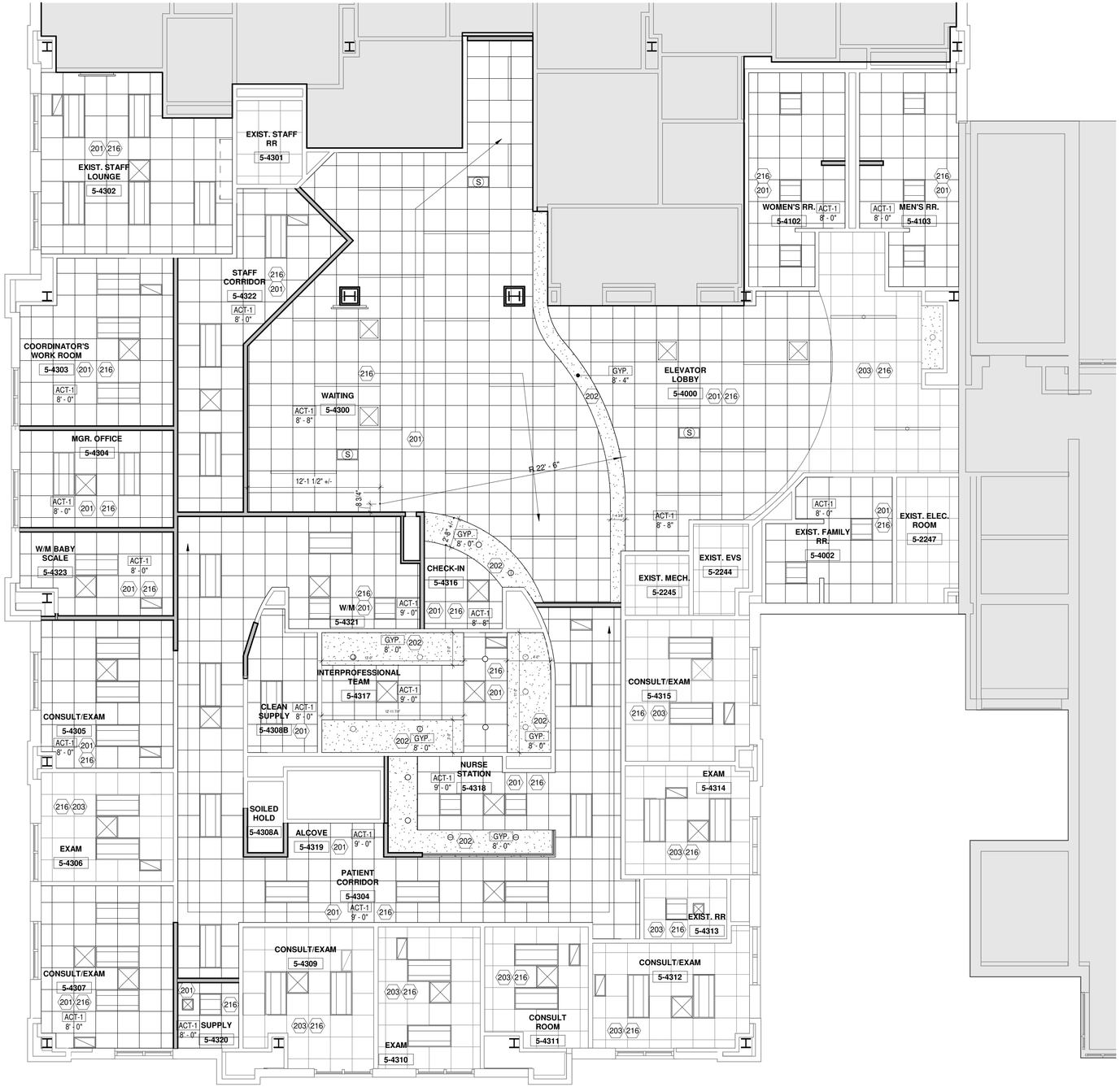

NO WORK IN THE GRAY HATCHED AREA.

1 LEVEL 4 NEW WORK REFLECTED CEILING PLAN
A-111 3/16" = 1'-0"

RCP GENERAL NOTES

A. REFER TO SHEET G002 FOR PROJECT GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND RECOMMENDED MOUNTING HEIGHTS FOR FIXTURES AND ACCESSORIES.
B. REFER TO DISCIPLINE-SPECIFIC DRAWINGS (STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, FIRE PROTECTION) FOR ADDITIONAL INFORMATION.
C. ALL DIMENSIONS ARE TO STUD FACE UNLESS NOTES OTHERWISE.
D. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED ITEMS.
E. REFER TO ENLARGED PLANS FOR WALL TYPES NOT SHOWN ON NEW YORK PLANS.
F. SEE FINISH LEGEND, FINISH SCHEDULE, AND FINISH PLAN FOR FINISH MATERIAL INFORMATION.
G. REFER TO PARTITION SCHEDULE FOR PARTITION ASSEMBLY DESIGN.
H. REFER TO LIFE SAFETY PLANS FOR FIRE AND SMOKE PARTITION LOCATIONS.
I. DIMENSIONS LABELED "MIN" OR "CLEAR" SHALL NOT BE LESS THAN INDICATED. DIMENSIONS LABELED "HOLD" SHALL BE EXACTLY AS INDICATED AND NO MORE OR NO LESS.
J. WHERE PARTITIONS OF DIFFERENT THICKNESSES MEET, MAINTAIN A FLUSH SURFACE ON THE FACE THAT ALIGN.
K. INFILL ANY VOIDS IN PARTITIONS ARISING OUT OF DEMOLITION AND CONSTRUCTION ACTIVITY.
L. SEAL ALL MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS THROUGH PARTITIONS.
M. FURNITURE & EQUIPMENT SHOW FOR REFERENCE ONLY. REFER TO FFE DRAWINGS.

DRAWING NOTES

201 NEW SUSPENDED ACOUSTICAL CEILING TILE AND GRID, REFER TO FINISH LEGEND.
202 NEW SUSPENDED GYPSUM BOARD CEILING, REFER TO FINISH LEGEND FOR PAINT COLOR.
203 EXISTING SUSPENDED CEILING TO REMAIN.
216 NEW LIGHTING FIXTURES AND NEW MECHANICAL DIFFUSERS TO BE INSTALLED.

SOUND MASKING SYSTEM

SOUND MASKING SYSTEM IS AMERICAN SOUND MASKING, LLC. 1491 POLARIS PARKWAY, SUITE 274 - COLUMBUS OHIO 43240 PHONE: (800) 766-8959 - FAX: 877-577-5448

STANDARD SYSTEM MATERIALS
1. AS1-DS1042 ANALOG MASKING GENERATOR, WITH TUNABLE PINK/WHITE MASKING SIGNAL. 25 WATT POWER AMPLIFIER, WITH 70-VOLT OUTPUT TRANSFORMER; NOMINAL 8" X 7" X 4" METAL ENCLOSURE.
2. AS50-M1338 PLENUM RATED, (UL-2043), SOUND MASKING SPEAKER, 8" DIAMETER, DUAL CONE, 712 CUBIC INCH ENCLOSURE, SIX POSITION ROTARY SWITCH.
3. CA1-DS1045 INTERCONNECT CABLE THAT MEETS FIRE CODES FOR AN OPEN RETURN AIR CEILING PLENUM.

HEAD END UNIT WILL SHALL BE INSTALLED IN THE ELECTRICAL CLOSET ACROSS THE MAIN CORRIDOR FROM THE RENOVATED AREA.

RCP LEGEND

NEW WORK

- NEW LED LIGHT FIXTURE
- RECESSED LED STRIP LIGHT FIXTURE
- NEW MECHANICAL GRILLES
- NEW RECESSED LED DOWN LIGHT
- NEW GYPSUM BOARD CEILING / SOFFIT / BULKHEAD
- NEW 2' X 2' SUSPENDED ACOUSTICAL PANEL
- NEW TYPICAL SUSP. CEILING : ACT-1, U.N.O.
- NEW TYPICAL SUSP. CEILING : HEIGHT : 8'-0", U.N.O.

EXISTING

- EXISTING RECESSED LIGHT FIXTURE
- EXISTING MECHANICAL GRILLES
- NEW RECESSED LED DOWN LIGHT
- NEW GYPSUM BOARD CEILING / SOFFIT / BULKHEAD
- NEW 2' X 2' SUSPENDED ACOUSTICAL PANEL
- NEW TYPICAL SUSP. CEILING : ACT-1, U.N.O.
- NEW TYPICAL SUSP. CEILING : HEIGHT : 8'-0", U.N.O.

REFER TO M.E.P. DOCUMENTS FOR SMOKE DETECTOR AND EXIT SIGN LOCATIONS.

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Client Number: 627
Project Number: 6981-12

STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

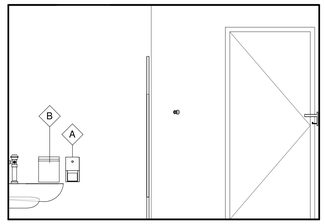
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
NEW WORK RCP

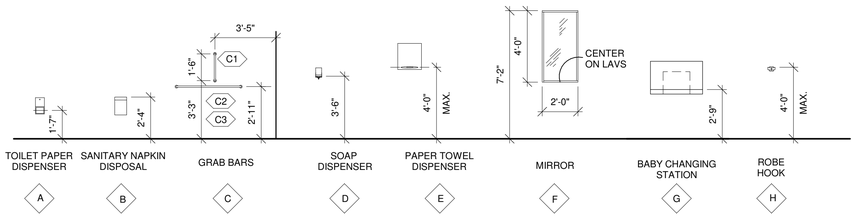
SHEET NO.
A-111

7/16/2025 9:39:52 AM

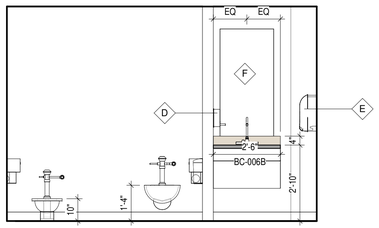
ISSUED FOR CONSTRUCTION



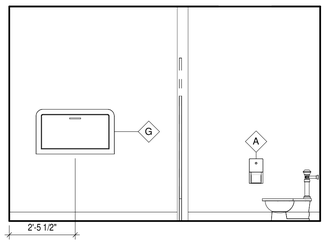
5 EXISTING FAMILY RR-SOUTH
A-401 3/8" = 1'-0"



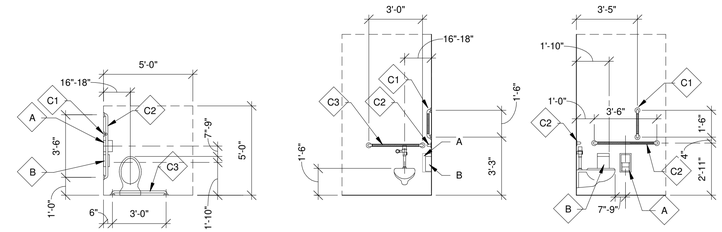
7 TYPICAL TOILET ACCESSORY ELEVATIONS
A-401 1/4" = 1'-0"



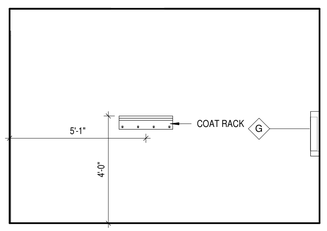
4 EXISTING FAMILY RR-EAST
A-401 3/8" = 1'-0"



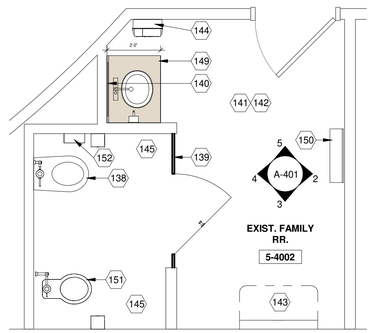
3 EXISTING FAMILY RR-NORTH
A-401 3/8" = 1'-0"



6 ACCESSORIES AND DIMENSIONS AT ACCESSIBLE TOILET
A-401 1/4" = 1'-0"



2 EXISTING FAMILY RR-WEST
A-401 3/8" = 1'-0"



1 EXISTING FAMILY RR
A-401 3/8" = 1'-0"

DRAWING NOTES

138 NEW WALL-MOUNTED WATER CLOSET, BASIS OF DESIGN: AMERICAN STANDARD #3351.101 WATER CLOSET TO BE PROVIDED WITH AUTOMATIC FLUSH VALVE, BASIS OF DESIGN: SLOAN OPTIMA SMO "111-SMO".

139 NEW WALL MOUNTED AND CEILING MOUNTED TOILET PARTITION WALL, SCREEN AND DOORS, REFER TO TOILET ACCCESSORIES LEGEND.

140 NEW WALL-MOUNTED MIRROR, BASIS OF DESIGN: BOBRICK "B-290".

141 NEW FLOOR TILE FINISH THROUGHOUT ROOM, REFER TO FINISH PLAN.

142 NEW WALL TILE FINISH THROUGHOUT ROOM, REFER TO INTERIOR PLAN.

143 NEW WALL MOUNTED BABY CHANGING STATION, WITH SANITARY NAPKIN DISPENSER.

144 INSTALL SET ASIDE SURFACE MOUNTED PAPER TOWEL DISPENSER.

145 INSTALL SET ASIDE SURFACE MOUNTED TOILET PAPER DISPENSER.

149 INSTALL SOLID SURFACE COUNTER (SSM-1) ON CONTINUOUS PLASTIC LAMINATE (PL-1) SINK SKIRT. PROVIDE UNDER COUNTER SOLID SURFACE SINK (SS-2) TO BE PROVIDED WITH AUTOMATIC FAUCET, BASIS OF DESIGN: SLOAN OPTIMA "EBF85-4 PVDSF" BATTERY OPERATED FAUCET.

150 INSTALL WALL MOUNTED COAT HOOK RACK.

151 INSTALL WALL-MOUNTED CHILDRENS WATER CLOSET.

152 INSTALL NEW WALL-MOUNTED SANITARY NAPKIN DISPENSER.

	TOILET ACCESSORIES	BASIS OF DESIGN
A	SURFACE MOUNTED TOILET PAPER DISPENSER	GEORGIA PACIFIC 56796
B	SANITATRY NAPKIN DISPOSAL	
C1	18" VERTICAL STANLESS STEEL GRAB BAR	BOBRICK B-6806
C2	48" HORIZONTAL STANLESS STEEL GRAB BAR	BOBRICK B-6806
C3	36" HORIZONTAL STANLESS STEEL GRAB BAR	BOBRICK B-6806
D	SURFACE MOUNTED LIQUID SOAP DISPENSER	MEDLINE MSC9550
E	SURFACE MOUNTED PAPER TOWL DISPENSER	GP ENMOTION 59466
F	2'-0" WIDE BY 3'-0" TALL STAINLESS STEEL FRAMED WALL MOUTNED MIRROR @ 3'-4" A.F.F.	BOBRICK B-290
G	SURFACE MOUNTED BABY CHANGING STATION	BOBRICK KB-200-SS
H	STAINLESS STEEL ROBE HOOK	BOBRICK B-671
K	WALL MOUNTED ADA WATER CLOSET	AMER. STANDARD 3351.101
L	WALL MOUNTED WATER CLOSET	AMER. STANDARD 3351.101
M	TRASH CAN	RUBBERMAID

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

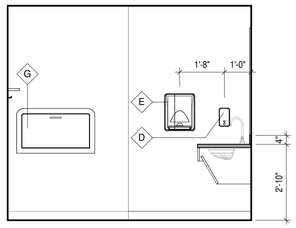
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
INTERIOR ELEVATIONS

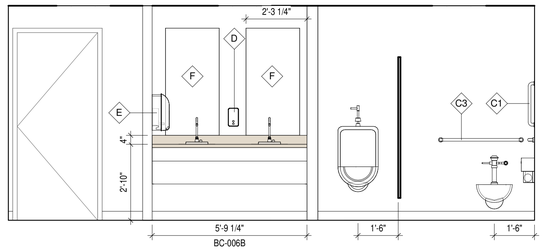
SHEET NO.
A-401

7/16/2025 9:39:58 AM

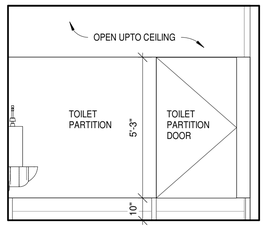
ISSUED FOR CONSTRUCTION



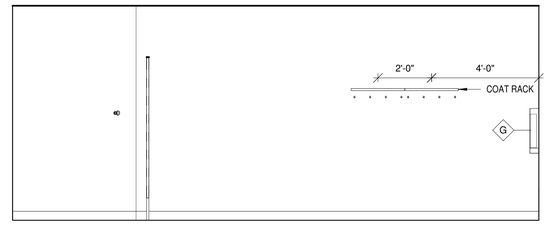
6 A-402 MEN'S RR NORTH
3/8" = 1'-0"



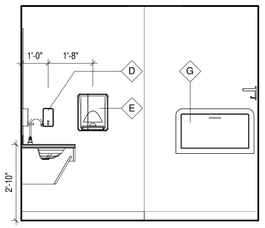
7 A-402 MEN'S RR EAST
3/8" = 1'-0"



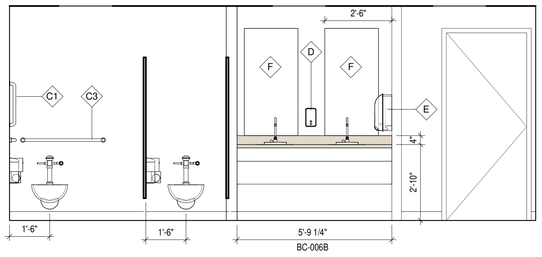
8 A-402 MEN'S RR SOUTH
3/8" = 1'-0"



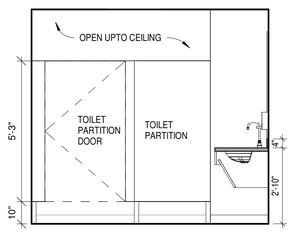
9 A-402 MEN'S RR WEST
3/8" = 1'-0"



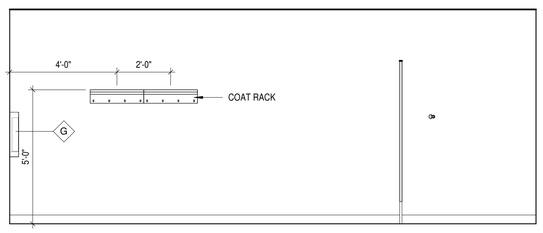
5 A-402 WOMEN'S RR NORTH
3/8" = 1'-0"



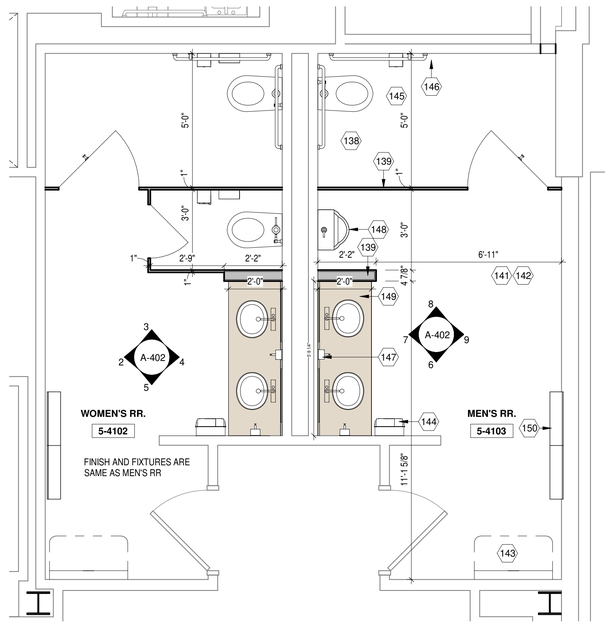
4 A-402 WOMEN'S RR WEST
3/8" = 1'-0"



3 A-402 WOMEN'S RR SOUTH
3/8" = 1'-0"



2 A-402 WOMEN'S RR EAST
3/8" = 1'-0"



1 A-402 LEVEL 4 NEW WORK FLOOR PLAN - MEN AND WOMEN RESTROOM
3/8" = 1'-0"

DRAWING NOTES

138 NEW WALL-MOUNTED WATER CLOSET, BASIS OF DESIGN: AMERICAN STANDARD #3351.101 WATER CLOSET TO BE PROVIDED WITH AUTOMATIC FLUSH VALVE, BASIS OF DESIGN: SLOAN OPTIMA SMO "111-SMO".

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144 INSTALL SET ASIDE SURFACE MOUNTED PAPER TOWEL DISPENSER.

145 INSTALL SET ASIDE SURFACE MOUNTED TOILET PAPER DISPENSER.

146 INSTALL SET ASIDE SURFACE MOUNTED GRAB BARS.

147 NEW WALL MOUNTED LIQUID SOAP DISPENSER.

148 NEW WALL MOUNTED URINAL, BASIS OF DESIGN: AMERICAN STANDARD #6590.001. WATER CLOSET TO BE PROVIDED WITH AUTOMATIC FLUSH VALVES, BASIS OF DESIGN: SLOAN OPTIMA SMO "111-SMO".

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OPC - 4 GENETICS

ISSUANCES

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STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

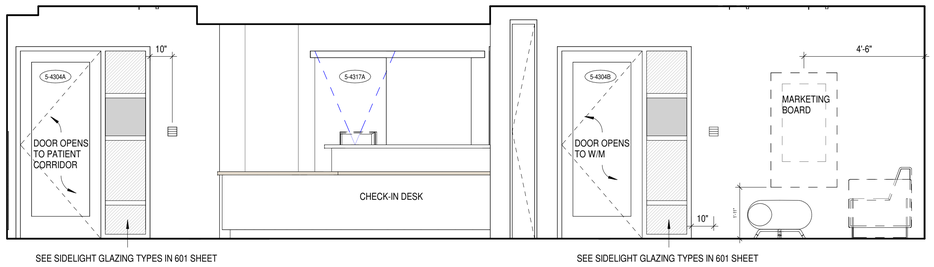
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
INTERIOR ELEVATIONS

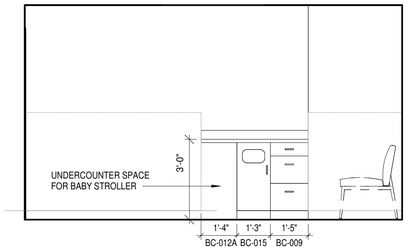
SHEET NO.
A-402

7/16/2025 9:40:09 AM

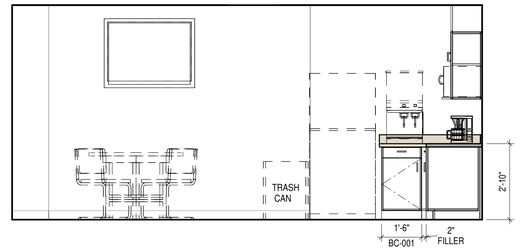
ISSUED FOR CONSTRUCTION



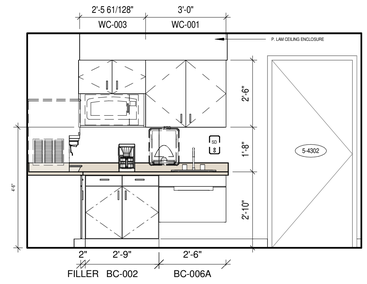
9 A-403 WAITING AREA-NORTH 3/8" = 1'-0"



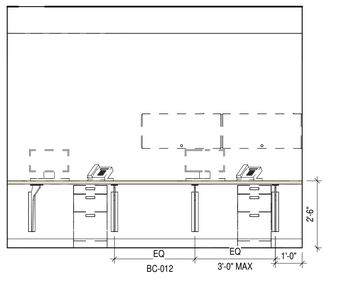
11 A-403 W/M BABY SCALE-NORTH 3/8" = 1'-0"



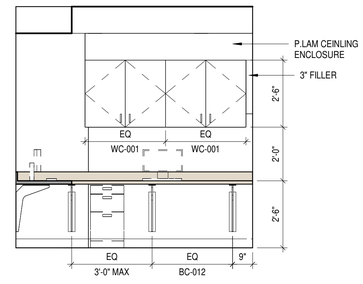
10 A-403 EXIST. STAFF LOUNGE - SOUTH ELEVATION 3/8" = 1'-0"



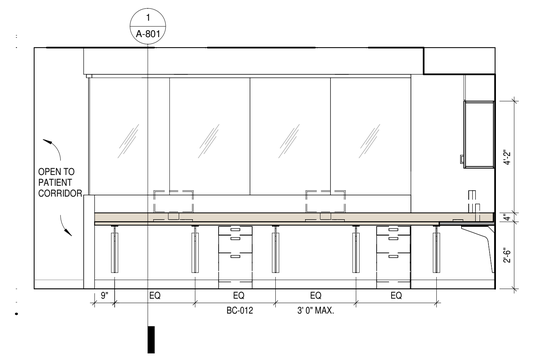
5 A-403 EXIST. STAFF LOUNGE - WEST ELEVATION 3/8" = 1'-0"



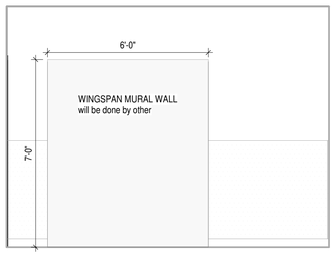
8 A-403 INTERPROFESSIONAL TEAM (05-4317) WEST 3/8" = 1'-0"



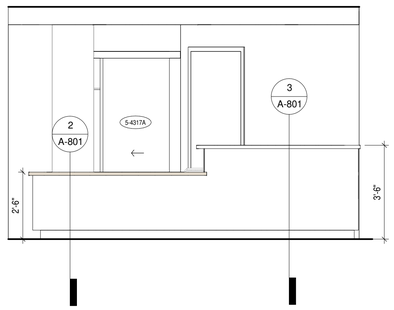
7 A-403 NURSE STATION-EAST 3/8" = 1'-0"



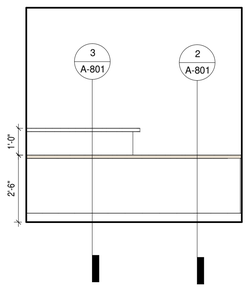
6 A-403 NURSE STATION-NORTH 3/8" = 1'-0"



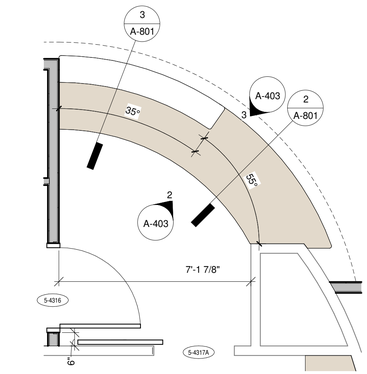
4 A-403 W/M NORTH 3/8" = 1'-0"



3 A-403 CHECK-IN DESK ELEVATION 2 3/8" = 1'-0"



2 A-403 CHECK-IN DESK ELEVATION 1 3/8" = 1'-0"



1 A-403 CHECK -IN - DESK 3/8" = 1'-0"

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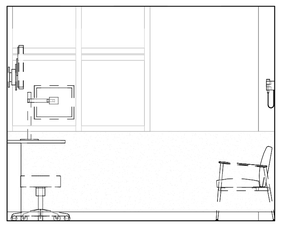
LICENSE #13805
EXPIRATION DATE 12/31/2025

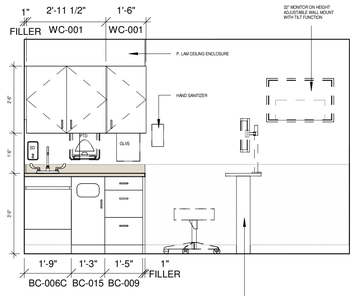
DRAWING TITLE
INTERIOR ELEVATIONS

SHEET NO.
A-403

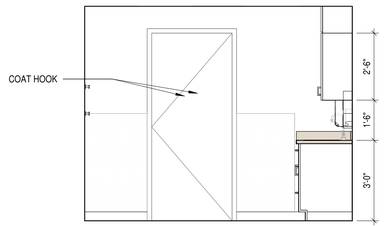
7/16/2025 9:40:21 AM



3 A-404 EXAM (05-4306) EAST
3/8" = 1'-0"

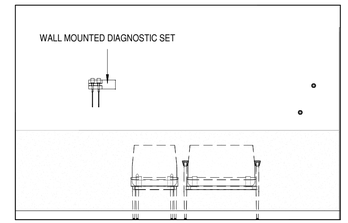


2 A-404 EXAM (05-4306) - NORTH
3/8" = 1'-0"

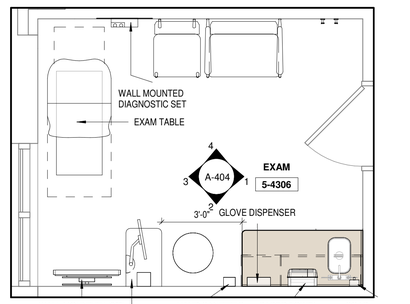


1 A-404 EXAM (05-4306) - WEST
3/8" = 1'-0"

5 A-404 SUPPLY ROOM-EAST
3/8" = 1'-0"



4 A-404 EXAM (05-4306) SOUTH
3/8" = 1'-0"



13 A-404 EXAM, TYP
3/8" = 1'-0"

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OPC - 4 GENETICS

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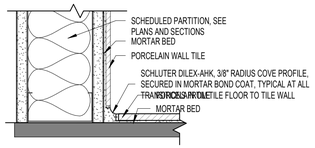
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

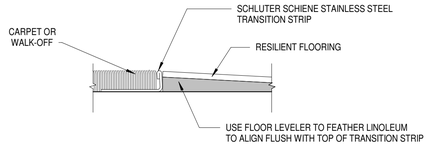
DRAWING TITLE
INTERIOR ELEVATIONS

SHEET NO.
A-404

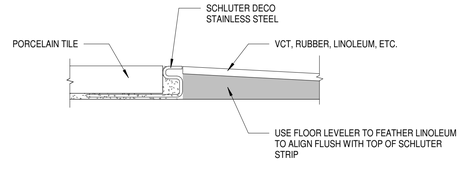
7/16/2025 9:40:28 AM



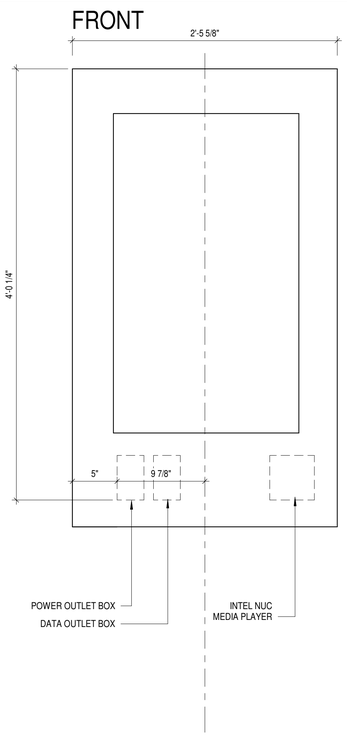
11 TILE BASE DETAIL
A-501 3" = 1'-0"



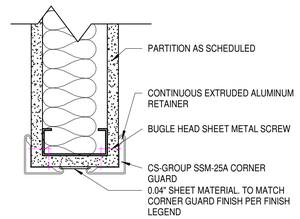
10 FLOORING TRANSITION DETAIL - CARPET TO RESILIENT
A-501 12" = 1'-0"



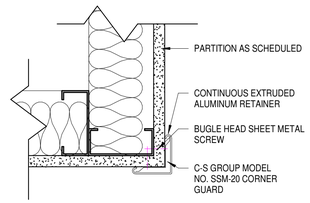
9 FLOORING TRANSITION DETAIL - RESILIENT TO TILE
A-501 12" = 1'-0"



6 TYPICAL DIGITAL MARKETING DISPLAY DETAIL
A-501 1 1/2" = 1'-0"



CG-1

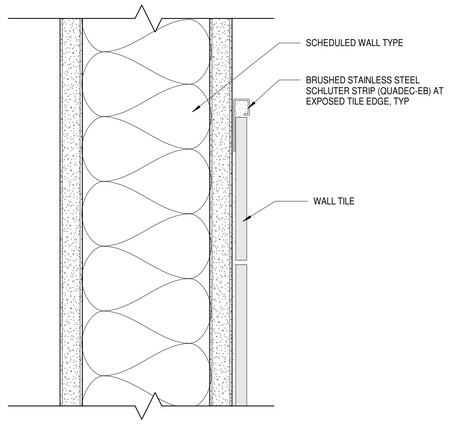


CG-1

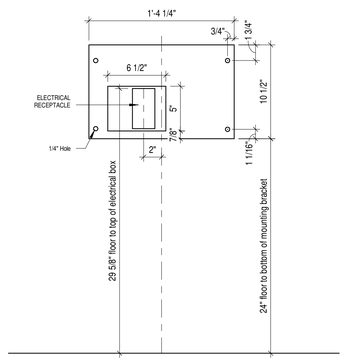
1. REFER TO FINISH LEGEND FOR FINISHES SPECIFIED FOR WALL PROTECTION.

2. CORNER GUARD TO EXTEND FULL HEIGHT FROM TOP OF FLOOR BASE TO CEILING, UNLESS NOTED OTHERWISE ON ELEVATIONS. REFER TO FINISH LEGEND FOR FINISH MATERIAL

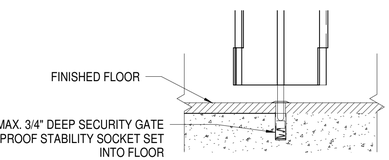
8 CORNER GUARD DETAIL
A-501 3" = 1'-0"



4 TRIM DETAIL - QUADEC @ EXPOSED EDGE OF TILE
A-501 6" = 1'-0"

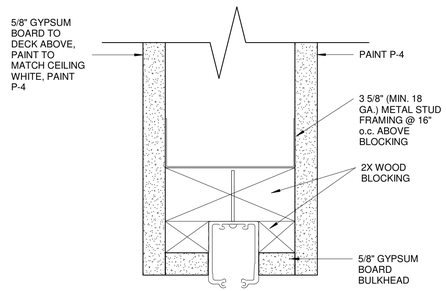


5 TYPICAL TOUCH TO PLAY DETAIL
A-501 1 1/2" = 1'-0"



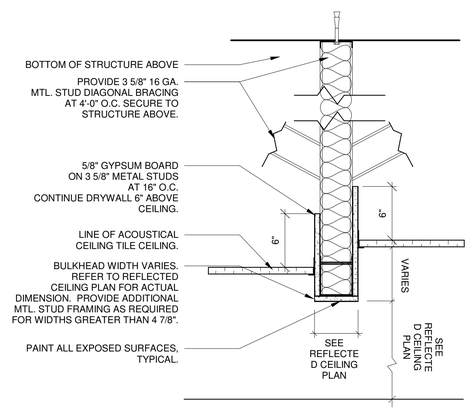
BASIS OF DESIGN:
DYNAMIC CLOSURES
"S126 S," CLEAR, TOP AND BOTTOM LOCKING POST

3 SECURITY GATE FLOOR SOCKET
A-501 1 1/2" = 1'-0"

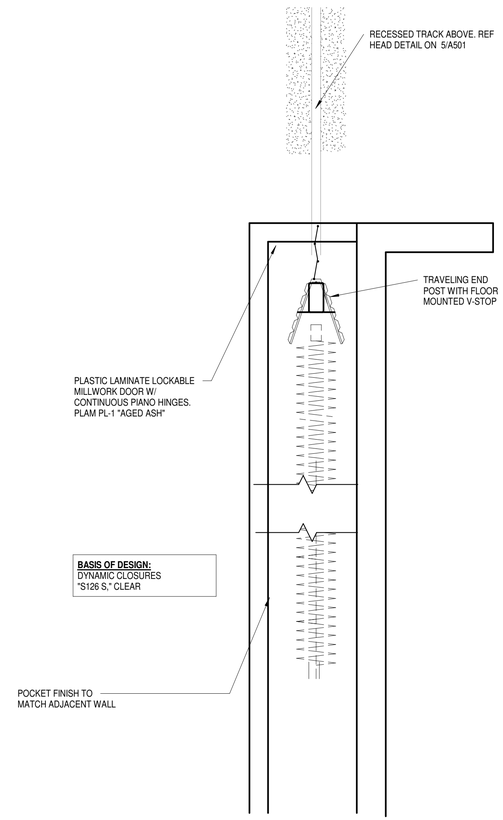


RECESSED TRACK MOUNTING INTO WOOD HEADER

2 SECURITY GATE RECESSED TRACK
A-501 6" = 1'-0"



7 GYPSUM BULKHEAD, UNEVEN
A-501 1 1/2" = 1'-0"



BASIS OF DESIGN:
DYNAMIC CLOSURES
"S126 S," CLEAR

1 SECURITY GATE POCKET DETAIL
A-501 1" = 1'-0"

ISSUED FOR CONSTRUCTION

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P: 937-224-0861 www.heapy.com
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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

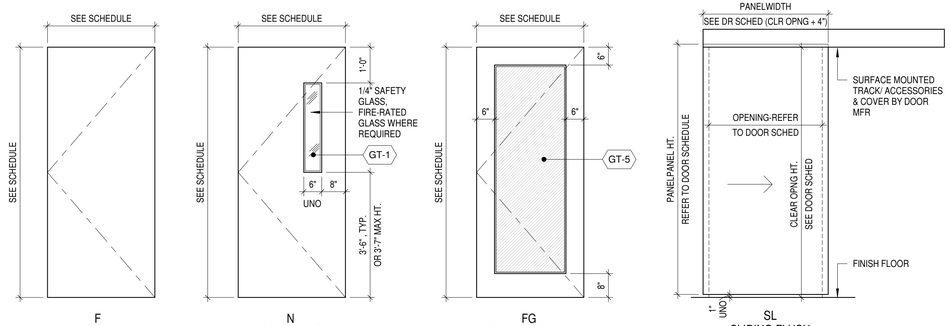
Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
DETAILS

SHEET NO.
A-501

7/16/2025 9:40:30 AM



F
FLUSH
FP
FLUSH PAIR
HOLLOW METAL (PAINT) OR SOLID CORE WOOD

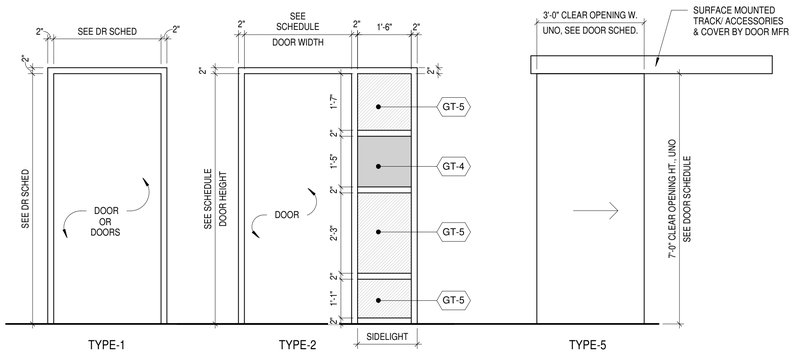
N
NARROW LITE
FLUSH HOLLOW METAL W/ NARROW VISION PANEL

FG
FULL GLASS - AL
ALUMINUM STOREFRONT

SL
SLIDING FLUSH PANEL

1. 1/4" TEMPERED SAFETY GLASS AT ALL GLAZING IN DOORS, UNO.
2. PROVIDE FIRE LIGHT SAFETY GLASS AT ALL RATED DOORS

DOOR TYPES



ALUMINUM STOREFRONT, UNO

DOOR & WINDOW GLAZING TYPES

GT	DOOR & WINDOW GLAZING TYPES
GT-1	CLEAR VISION GLAZING
GT-2	SAFETY LAMINATED CLEAR VISION GLAZING
GT-3	CLEAR TEMPERED VISION GLAZING WITH DECORATIVE FILM.
GT-4	SOLID CLEAR ANODIZED PANEL
GT-5	SAFETY LAMINATED WITH DECORATIVE FILM

DOOR SCHEDULE - OPC 4

LEVEL	DOOR NO.	DOOR W	DOOR H	DOOR THK	DOOR TYPE	DOOR MAT	FRAME TYPE	FRAME MAT	DETAIL (THIS SHEET) HEAD	DETAIL (THIS SHEET) JAMB	FIRE RATING	HW SET	COMMENTS
LEVEL 4	5-4000C	3' - 0"	7' - 0"	1 3/4"	EXIST.								
LEVEL 4	5-4300	3' - 0"	7' - 0"	1 3/4"	AL		2		1/A-602	2/A-602		01	3, 5, 7, 8, HAND SWIPE SENSORS ON BOTH SIDES
LEVEL 4	5-4302	3' - 0"	7' - 0"	1 3/4"	EXIST.		1 (EXIST.)		EXIST.	EXIST.			4
LEVEL 4	5-4303	3' - 0"	7' - 0"	1 3/4"	EXIST.		F1		1/A-601	2/A-601		02	1, 2, 6
LEVEL 4	5-4304	3' - 0"	7' - 0"	1 3/4"	EXIST.				1/A-601	2/A-601		02	1, 2
LEVEL 4	5-4304A	3' - 0"	7' - 0"	1 3/4"	AL		2		1/A-602	2/A-602		01	12
LEVEL 4	5-4304B	3' - 0"	7' - 0"	1 3/4"	AL		2		1/A-602	2/A-602		01	
LEVEL 4	5-4307	3' - 0"	7' - 0"	1 3/4"	EXIST.							05	1, 2, 6
LEVEL 4	5-4308A	3' - 0"	7' - 0"	1 3/4"	F							04	10
LEVEL 4	5-4308B	3' - 0"	7' - 0"	1 3/4"	F							04	10
LEVEL 4	5-4311	3' - 0"	7' - 0"	1 3/4"	SL		5					02	11
LEVEL 4	5-4312	3' - 0"	7' - 0"	1 3/4"	EXIST.							05	9
LEVEL 4	5-4313	3' - 0"	7' - 0"	1 3/4"	EXIST.								
LEVEL 4	5-4314	3' - 0"	7' - 0"	1 3/4"	EXIST.							05	9
LEVEL 4	5-4315	3' - 0"	7' - 0"	1 3/4"	EXIST.							05	9
LEVEL 4	5-4316	3' - 0"	7' - 0"	1 3/4"	F								
LEVEL 4	5-4317A	3' - 0"	7' - 0"	1 3/4"	SL		5					05	11
LEVEL 4	5-4317B	3' - 0"	7' - 0"	1 3/4"	SL		5					05	11
LEVEL 4	5-4320	3' - 0"	7' - 0"	1 3/4"	EXIST.							04	
LEVEL 4	5-4322 A	3' - 0"	7' - 0"	1 3/4"	EXIST.							4	3
LEVEL 4	5-4322 B	3' - 0"	7' - 0"	1 3/4"	F				1/A-601	2/A-601		04	3
LEVEL 4	5-4323	3' - 0"	7' - 0"	1 3/4"	EXIST.				1/A-601	2/A-601		05	1, 2

DOOR HARDWARE:

SET 01 - Access Controlled Hardware
Description: Access Controlled Storeroom Lockset
3 – Hinges (Heavy duty weight)
1 – Lockset (storeroom)
1 – Interchangeable Cylinder Core
1 – Surface Door Closer
1 – Electric Strike
1 – Power Supply
1 – Card Reader
1 – Kick Plate (10"x34")
1 – Wall Stop
3 – Silencers

SET 02 - Office Hardware
Description: Office Lockset
3 – Hinges (Medium duty weight)
1 – Lockset (office)
1 – Interchangeable Cylinder Core
1 – Wall Stop
3 – Silencers

SET 03 - Privacy Hardware
Description: Privacy Lockset
3 - Hinges (Heavy duty weight)
1 – Lockset (Privacy)
1 - Occupancy Indicator w/ coin turn
1 – Interchangeable Cylinder Core
1 – Kick Plate (10"x34")
1 – Wall Stop
3 – Silencers

SET 04 - Storeroom Hardware
Description: Storeroom Lockset
3 – Hinges (Heavy duty weight)
1 – Lockset (storeroom)
1 – Interchangeable Cylinder Core
1 – Surface Door Closer
1 – Wall Stop
3 – Silencers

SET 05 - Passage Hardware
Description: Passage Lockset
3 – Hinges (Medium duty weight)
1 – Wall Stop
3 – Silencers

DOOR COMMENTS:

1. MIN. STC 30 RATED SOUND CONTROL DOOR (NO SEALS)
2. LATCHING WITH ACOUSTICAL SEALS
3. CARD READER ACCESS
4. ADD CARD READER TO THE EXISTING DOOR.
5. ACCESS CONTROL DOOR TO BE FAIL-SAFE
6. OVERHEAD STOP
7. HAND SWIPE SENSOR
8. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL DOOR HARDWARE REQUIREMENTS.
9. EXISTING OFFICE HARDWARE SET TO BE MODIFIED TO RECEIVE A PASSAGE HARDWARE SET FOR THE NEW EXAM ROOM.
10. DOOR SWINGS 180 DEGREES.
11. SLIDING DOOR, HARDWARE BY DOOR MFR., UNO.
12. FREE EGRESS BY PANIC BAR, ACCESS BY CARD READER ON LOCKED SIDE

GENERAL DOOR NOTES:

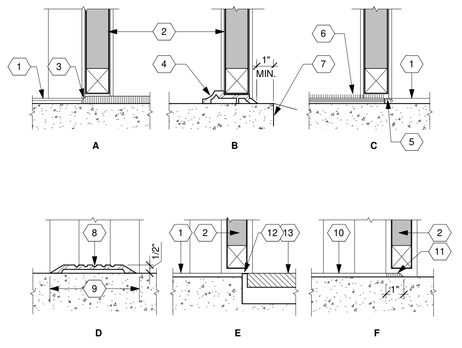
- DOOR CYLINDERS AND KEYS TO BE REVISED TO "SMALL FORMAT INTERGRAL CORE (SFIC)" AND PAIRED TO THE "MEDICO SECURITY KEY" SECURITY KEYING SYSTEM AS PER THE HOSPITAL ON-CAMPUS STANDARD. GC TO SCHEDULE KEYING MEETING PER SPECIFICATIONS.
- NEW SC DOOR NOTES : APPLICATION BASED ON DCH MAIN CAMPUS STANDARDS.
  1. SOLID-CORE WITH WOOD VENEER FACES.
  2. FACTORY FINISHING FLUSH WOOD DOORS.
  3. FACTORY FITTING FLUSH WOOD DOORS TO FRAMES AND FACTORY MACHINING FOR HARDWARE.
- MOUNT KICKPLATE ON PUSH SIDE OF DOOR.
- ALL WOOD DOORS TO HAVE SOLID CORES.
- UNDER CUT DOOR MAX. 3/4", U.N.O.
- DOOR ACCESS CONTROL SYSTEMS FOR FACILITIES SECURITY REQUIREMENTS BY OWNER.
- KICKPLATES TO BE MOUNTED A MAX. OF 1/4" OFF THE BOTTOM EDGE OF THE DOOR.
- **GENERAL CONTRACTOR / DEVELOPER** TO PURCHASE ALL DOOR HARDWARE KEY CYLINDER CORES. CORES SHALL BE TURNED OVER TO DCH PUBLIC SAFETY FOR KEYING AND INSTALLATION AFTER THE PROJECT HAS BEEN TURNED OVER TO DCH. IF DOOR CYLINDER CORES ARE PURCHASED THROUGH BONDED LOCK PER THE SPECIFICATIONS DUE TO THE SECURITY KEY REQUIREMENT, GENERAL CONTRACTOR / DEVELOPER SHALL NOTIFY DCH PUBLIC SAFETY ON WHEN THE CORES WE PURCHASED AND HAVE BONDED LOCK NOTIFY DCH PUBLIC SAFETY WHEN THEY HAVE READY FOR DELIVERY.

NO EGRESS DOORS WILL INHIBIT FREE EGRESS TO SAFETY. ACCESS CONTROL ONLY INSTALLED TO PROVIDE ACCESS TO SPACES, NEVER PREVENTING ACCESS FROM SPACES WITH USE OF DOOR LEVER OR PANIC BAR.

DOOR HARDWARE SCHEDULE NOTES:

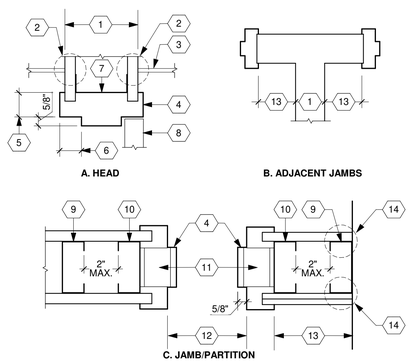
A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
B. Reference hardware set assignments per the drawings and provide shop drawings for review.
C. General Contractor/Developer to purchase all door hardware key cylinder cores. Cores shall be turned over to DCH Public Safety for keying and installation after the project has been turned over to DCH. If door cylinder cores are purchased through Bonded Lock per the specifications due to the security key requirement, General Contractor/Developer shall notify DCH Public Safety on when the cores were purchased and have Bonded Lock notify DCH Public Safety when they have ready for delivery.

DOOR FRAME TYPES



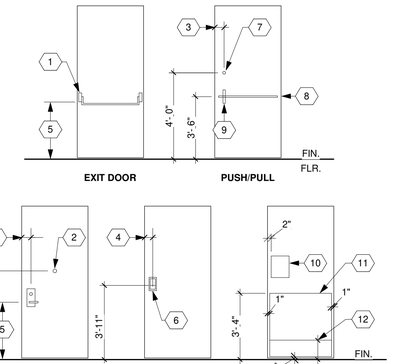
1. DISSIMILAR FLOOR FINISH MATERIAL.
2. SCHEDULED DOOR. SEE OPENING SCHEDULE.
3. SELF EDGING TILE AT THINSET CERAMIC TILE FLOOR FINISH, BULLNOSE TILE AT THICKSET TILE.
4. BULKHEAD THRESHOLD W/ INTEG. GASKET. SEE OPENING SCHEDULE & SCHEDULE REMARKS FOR LOCATIONS.
5. BINDER BAR AT CARPET TERMINATION CONTINUOUS ACROSS OPENING. ALIGN WITH EDGE OF DOOR STOP.
6. CARPET. SEE FINISH SCHEDULE FOR TYPE.
7. STRUCT. SLAB EDGE AT EXTERIOR DOORS. SEE SITE PLAN FOR JOINING SIDEWALKS & PAVING.
8. ALUMINUM FLAT SADDLE THRESHOLD-SEE OPENING SCHEDULES FOR LOCATIONS.
9. DOOR FRAME WIDTH.
10. VINYL COMPOSITION TILE OR SIMILAR FLOOR FINISH.
11. REDUCER STRIP, UNLESS OTHERWISE SCHEDULED.
12. METAL EDGE OR FEATURE STRIP.
13. BED SET FLOOR FINISH MATERIAL REQUIRING A SLAB DEPRESSION.

DOOR SILLS



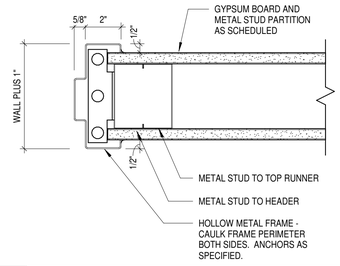
1. FOR FRAME THROAT REQUIREMENTS SEE PARTITION TYPE REFERENCE.
2. PARTITION INTERSECTION AT CEILING. SEE PART TYPE.
3. SCHEDULED CLG. FINISH & HEIGHT.
4. SCHEDULED FRAME MATERIAL & SIZE. SEE DOOR & OPENING SCHED.
5. FRAME PROFILE - SEE OPENING TYPES FOR DIMENSION.
6. FRAME RABBIT-EQUAL ON BOTH SIDES OF STOP.
7. PARTITION HEADER TRACK. CONTINUOUS ACROSS OPENING.
8. SCHEDULED DOOR SIZE & MATERIAL.
9. STUD REQUIRED @ THIS LOCATION REGARDLESS OF SCHEDULED SPACING.
10. JAMB STUDS-20 GA. MINIMUM UNLESS HEAVIER STUDS SPECIFIED.
11. FRAME ANCHOR. CONCEALED ANCHORAGE REQUIRED.
12. SCHEDULED OPENING WIDTH
13. ABUTTING PARTITION. 4" MIN. BACKSET UNLESS OTHERWISE NOTED. IF LESS THAN 4" PENETRATION PARTITION FRAMING REQUIRED.
14. PARTITION INTERSECTION-SEE GENERAL NOTES TO PARTITION TYPES FOR DETAIL REFERENCE.

DOOR HEAD & JAMB AT STUDDED PARTITION, TYP.

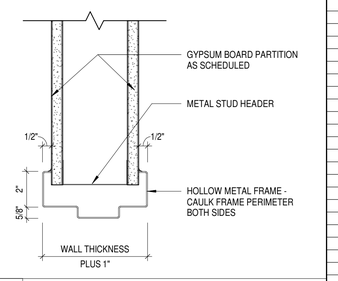


1. PANIC DEVICE-SEE HARDWARE (HDW). SPECS. & OPENING SCHEDULE.
2. DOOR VIEWER.
3. STANDARD BACKSET. COORDINATE WITH HDW. SUPPLIER.
4. BACKSET, 5". COORDINATE WITH HDW. SUPPLIER.
5. STRIKE CENTERLINE @ 3'-4.
6. HOSPITAL PUSH/PULL LATCH.
7. DEADLOCK.
8. PUSH BAR.
9. PULL.
10. PUSH PLATE.
11. ARMORED PLATE. SEE "REMARKS TO OPENING SCHEDULE" OR HARDWARE SETS. DO NOT USE ON RATED DOORS.
12. KICKPLATE. SEE HARDWARE SETS OR "REMARKS TO OPENING SCHEDULE". MAXIMUM HEIGHT - 16" A.F.F. ON RATED DOORS.

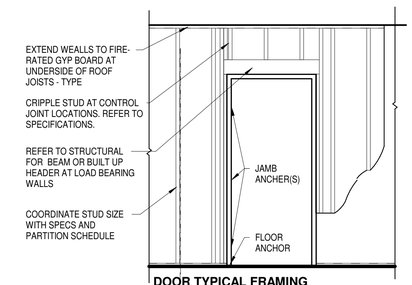
DOOR HARDWARE MTG. HTS.



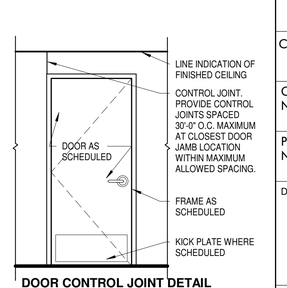
2 / A-601 — HM DR FRAME, GYP BD ON MTL STUDS - JAMB
3" = 1'-0"



1 / A-601 — HM DR FRAME, GYP BD ON MTL STUDS - HEAD
3" = 1'-0"



DOOR TYPICAL FRAMING DETAIL



DOOR CONTROL JOINT DETAIL

DOOR FRAMING DETAIL

CHAMPLIN ARCHITECTURE

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

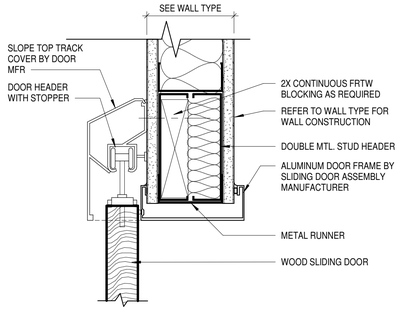
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
DOOR SCHEDULE, FRAMES, TYPES, HARDWARES & DETAILS

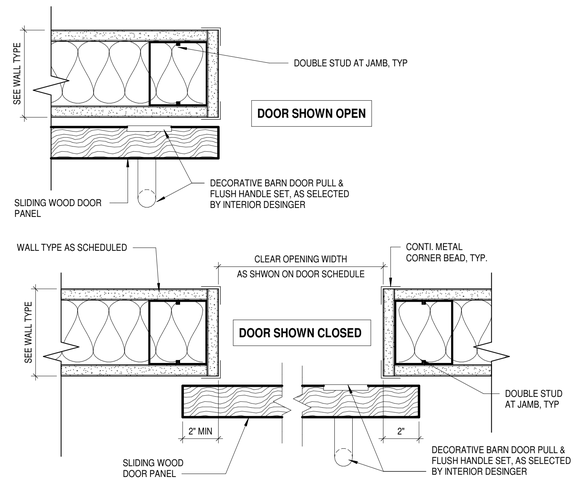
SHEET NO.
A-601

7/16/2025 9:40:46 AM

ISSUED FOR CONSTRUCTION

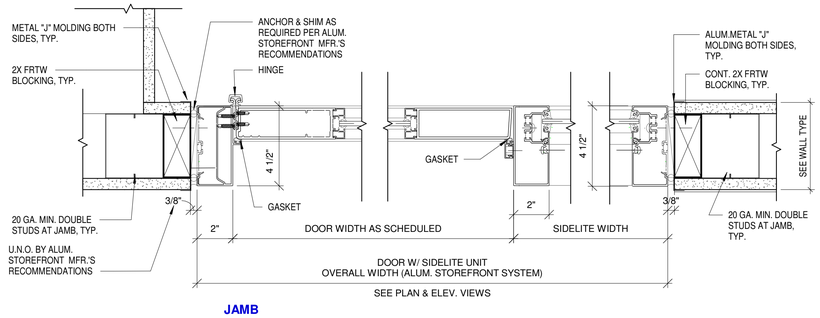


HEAD



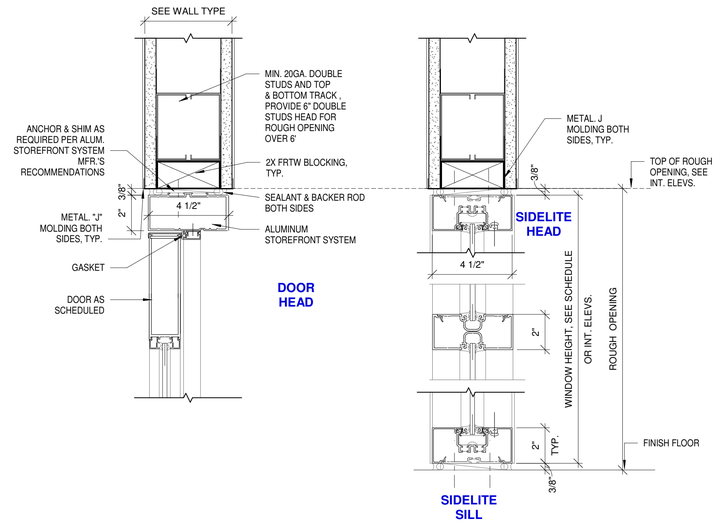
JAMB

3 A-602 SLIDING DOOR DETAILS
3" = 1'-0"



JAMB

2 A-602 ALUM. STOREFRONT DOOR WITH SIDELIGHT JAMB DETAIL
3" = 1'-0"



1 A-602 ALUM. STOREFRONT DOOR HEAD DETAIL
3" = 1'-0"

CHAMPLIN ARCHITECTURE

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OPC - 4 GENETICS

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STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

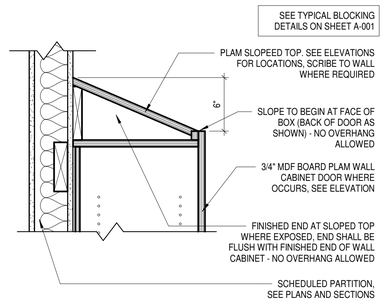
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
DOOR FRAME DETAILS

SHEET NO.
A-602

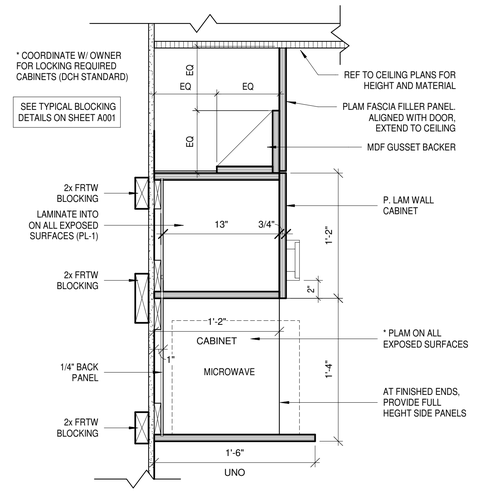
7/16/2025 9:40:47 AM

ISSUED FOR CONSTRUCTION

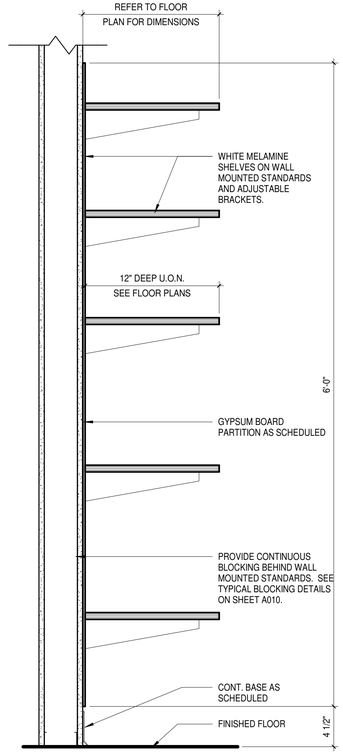


ALT. WALL CABINET TOP IF APPLICABLE (TYP. HIGH CEILING)

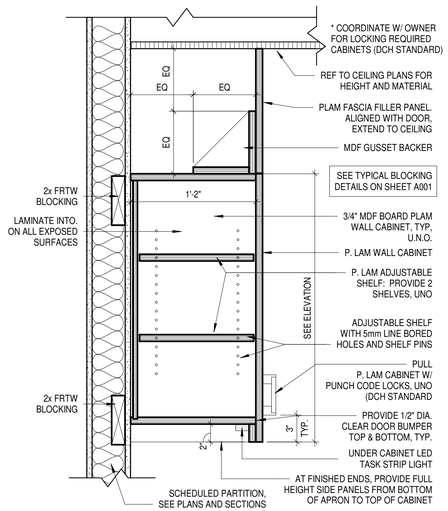
8 A-801 WC-001B
1 1/2" = 1'-0"



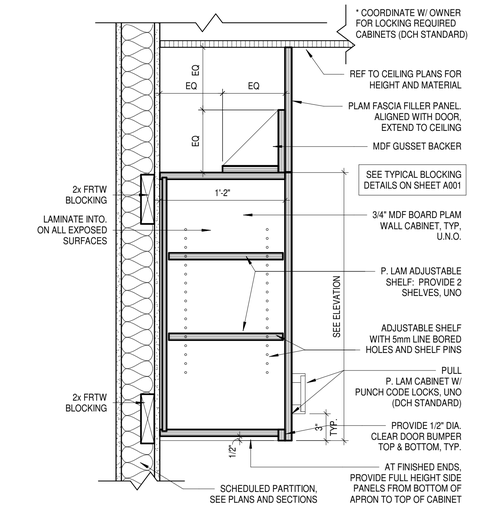
7 A-801 WC-003
1 1/2" = 1'-0"



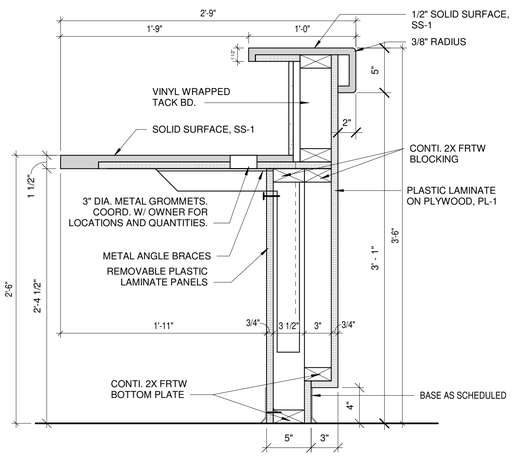
6 A-801 CASEWORK SECTION - ADJUSTABLE SHELVES
1 1/2" = 1'-0"



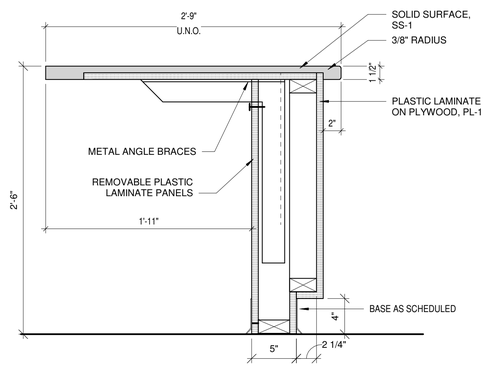
5 A-801 WC-001A
1 1/2" = 1'-0"



4 A-801 WC-001
1 1/2" = 1'-0"



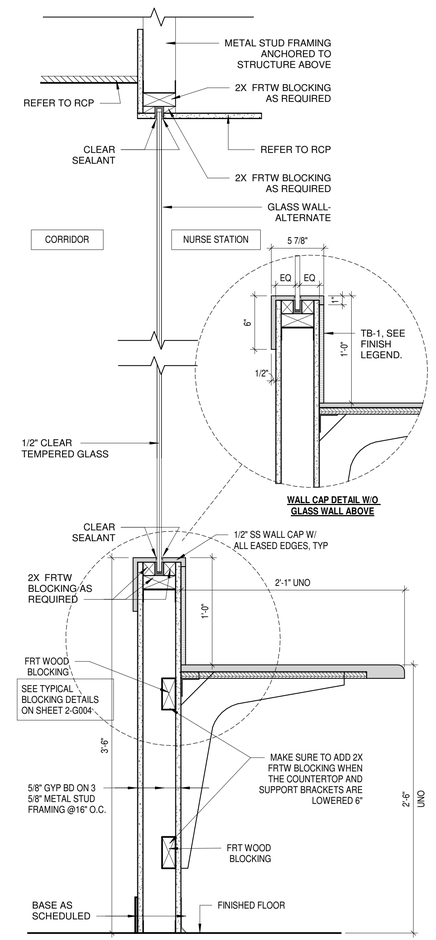
3 A-801 CHECK IN DESK @ TRANSACTION HEIGHT
1 1/2" = 1'-0"



2 A-801 CHECK IN DESK @ LOWER HEIGHT
1 1/2" = 1'-0"

GENERAL NOTES - CASEWORK

A. ALL DIMENSIONS ARE TO FINISH FACE UNLESS NOTED OTHERWISE.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED ITEMS.
C. PROVIDE WALL REINFORCING AT ALL WALL HUNG CASEWORK, FIXTURES, SPECIALTY EQUIPMENT, AND SHELVES.
D. PROVIDE BLOCKING FOR ALL EQUIPMENT AND ACCESSORIES INCLUDING BUT NOT LIMITED TO: MECHANICAL, ELECTRICAL, PLUMBING DEVICES, FURNITURE, AND ALL OTHER WALL/CEILING MOUNTED ITEMS.
E. ALL EXPOSED CASEWORK SHALL HAVE PLASTIC LAMINATE (PLAM) SURFACES WITH WHITE MELAMINE CABINET LINER FOR INTERIOR SURFACES, UNO. REFER TO FINISH SCHEDULE FOR COLOR SPECIFICATION.
F. THE INTERIOR OF OPEN CABINETS/ SHELVES SHALL BE PLASTIC LAMINATE TO MATCH THE CABINET EXTERIOR, UNO.
G. THE CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT WHICH IS LOCATED WITHIN OR ADJACENT TO ANY PIECE OF CASEWORK.
H. REQUIRED FILLER PIECES SHALL BE EVENLY DISTRIBUTED AND/OR INSTALL TO ALLOW PROPER OPERATION OF DRAWERS AND CABINET DOORS.
I. CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO UNIT FABRICATION AND INSTALLATION.
J. UNLESS NOTED OTHERWISE, COUNTERTOPS SHALL BE POST FORMED WITH EASED EDGES AND 4" HIGH INTEGRAL BACK/SIDESPLASHES. SCRIBE BACKSPLASHES AND SIDESPLASHES TO CONFORM TO SURFACE OF ABUTTING WALLS AT BACKS AND ENDS. COUNTERTOP AND BACK/SIDESPLASHES SHALL BE SILICON CAULKED TO THE WALLS.
K. PROVIDE 4" TOE SPACE AT BASE OF CASEWORK, UNO.
L. ALL EXPOSED SCREWS SHALL BE COUNTER SUNK W/ CAP AND TAMPER RESISTANT. NO FASTENERS TO BE EXPOSED.
M. CASEWORK SHALL BE CAULKED AT ALL JUNCTURE WITH ADJOINING MATERIALS INCLUDING SINKS, COUNTERTOPS, BASES, ETC.
N. ALL COUNTERTOPS SHALL BE 25" DEEP, UNO. REFER TO SPECIFIC ELEVATIONS, DETAILS, PLANS.
O. WHERE CABINETS INTERSECT AT CORNER CONDITIONS, ONE CABINET SHALL BE MODIFIED TO EXTEND THROUGH THE DEAD CORNER.
P. LOCATE 3" GROMMETS AT BACK OF COUNTERTOPS FOR EVERY 36" WORKSPACE WITH A MIN OF 1 PER KNEE SPACE. GROMMETS FINISH SHALL MATCH COUNTERTOP COLOR. (COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO INSTALLATION).
Q. PROVIDE STEEL SUPPORT BRACKETS AT 36" O.C. MAX AT KNEE SPACES WHERE COUNTERTOPS WITHOUT CABINETS. PROVIDE WALL CLEATS BETWEEN COUNTERTOP PERIMETER AND WALLS. COORDINATE BRACKET COLOR WITH ARCHITECT/INTERIOR DESIGNER.
R. SHELVING OVER 36" WIDE SHALL BE 1" THICK IN LIEU OF THE STANDARD 3/4" THICK.
S. WALL CABINETS WITHOUT FURR DOWN PLAM FASCIA PANELS ABOVE SHALL RECEIVE A CONTINUOUS 6" HIGH SLOPED TOP. FINISH TO MATCH CABINET EXTERIOR, UNO.
T. TOP OF WALL CABINETS SHALL BE MOUNTED 7'-2" AFF, UNO.
U. REFER TO FINISH LEGEND SHEET FOR SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES AND ENDS OF ALL FIXED CASEWORK, WARDROBES, VERTICAL SUPPORTS, KNEE SPACES, ETC.
V. ALL EXPOSED COUNTERTOP EDGES (TOP, BOTTOM, CORNER)SHALL HAVE RADIUS EDGING.
W. ALL CABINET PANELS UNDER SINKS SHALL BE FASTENED WITH CONCEALED HARDWARE TO ALLOW ACCESS BY MAINTENANCE STAFF. SINK BASE CABINET WITH DOORS ARE TO BE PROVIDED WITH A LOCK, UNO.



1 A-801 WALL SECTION THRU GLASS ENCLOSURE @ NURSE STATION
1 1/2" = 1'-0"

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OPC - 4
GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

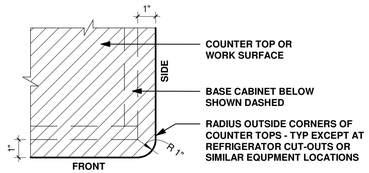
DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
CASEWORK DETAILS

SHEET NO.
A-801

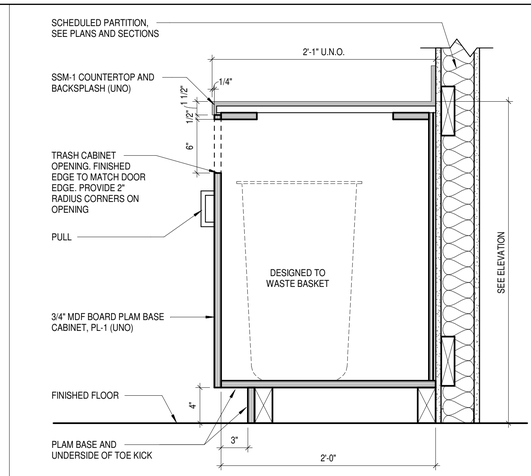
7/16/2025 9:40:48 AM

ISSUED FOR CONSTRUCTION

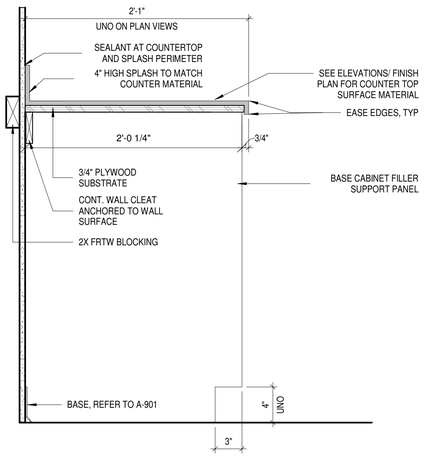


PLAN VIEW - TYPICAL, U.N.O.

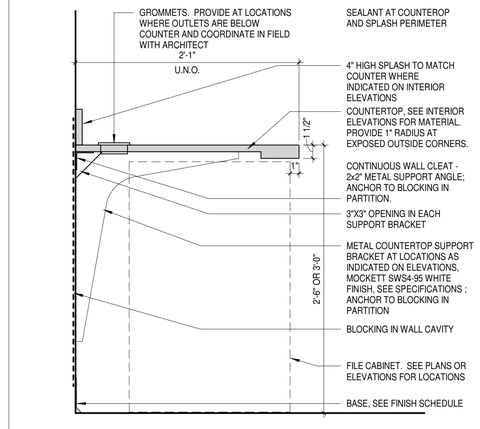
10 | A-802 | COUNTERTOP CORNER DETAIL
3" = 1'-0"



9 | A-802 | BC-015 (BASE CABINET W/ TRASH)
1 1/2" = 1'-0"

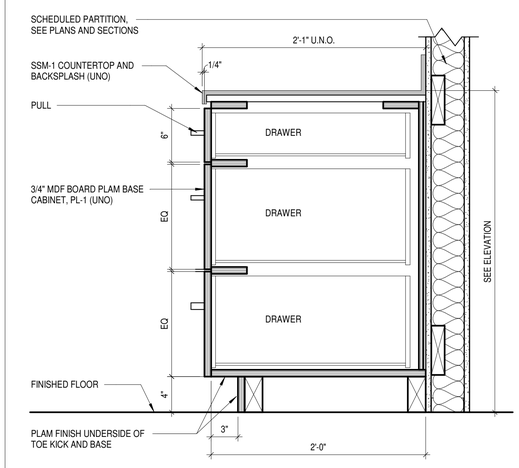


8 | A-802 | BC-012A (COUNTERTOP WITH HIDDEN BRACKET)
1 1/2" = 1'-0"

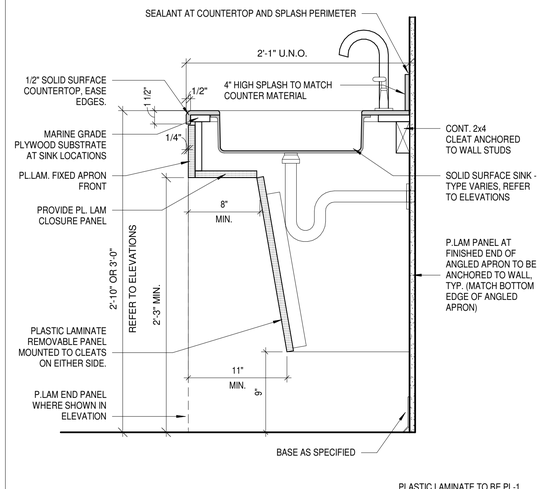


CASEWORK DETAIL - BASE COUNTERTOP WORKSURFACE

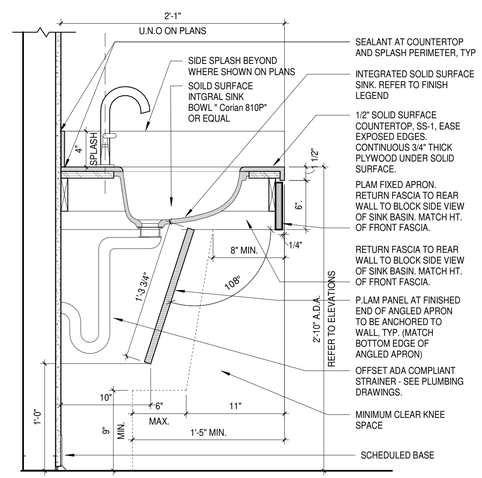
7 | A-802 | BC-012 (COUNTERTOP WITH BRACKET)
1 1/2" = 1'-0"



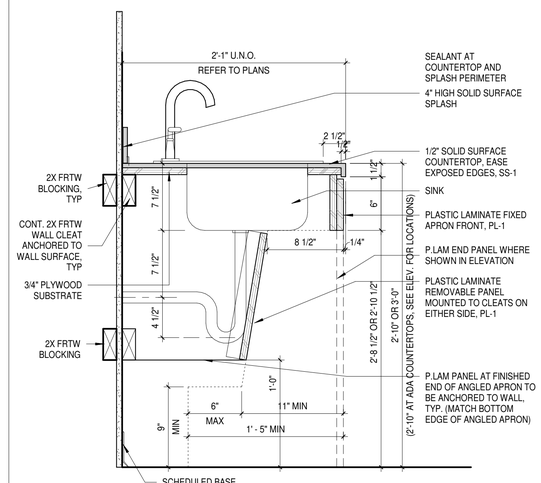
6 | A-802 | BC-009
1 1/2" = 1'-0"



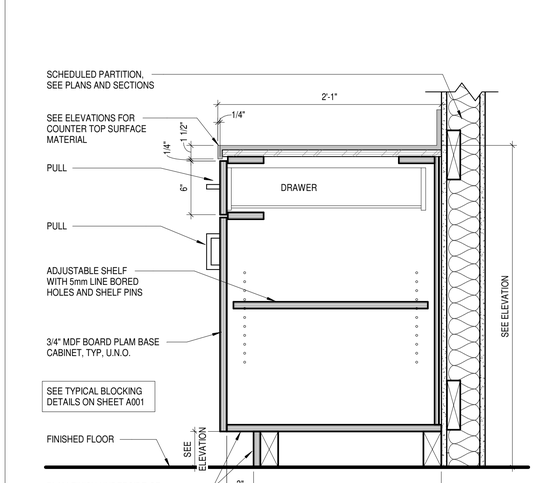
5 | A-802 | BC-006C (EXAM SINK SECTION DETAIL)
1 1/2" = 1'-0"



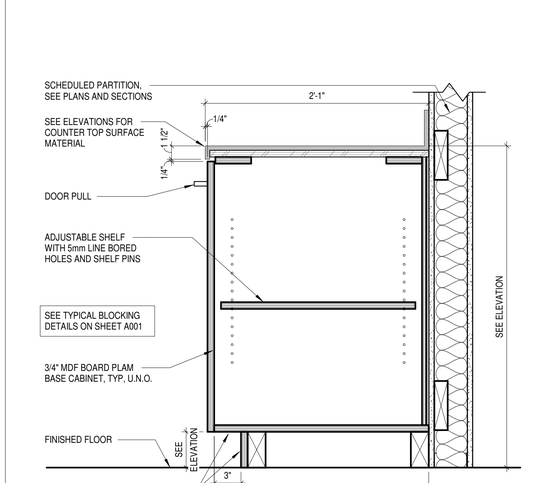
4 | A-802 | BC-006B
1 1/2" = 1'-0"



3 | A-802 | BC-006A
1 1/2" = 1'-0"



2 | A-802 | BC-002
1 1/2" = 1'-0"



1 | A-802 | BC-001
1 1/2" = 1'-0"

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OPC - 4 GENETICS

ISSUANCES

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Drawn By: SRS
Checked By: CAS
Client Number: 627
Project Number: 6981-12

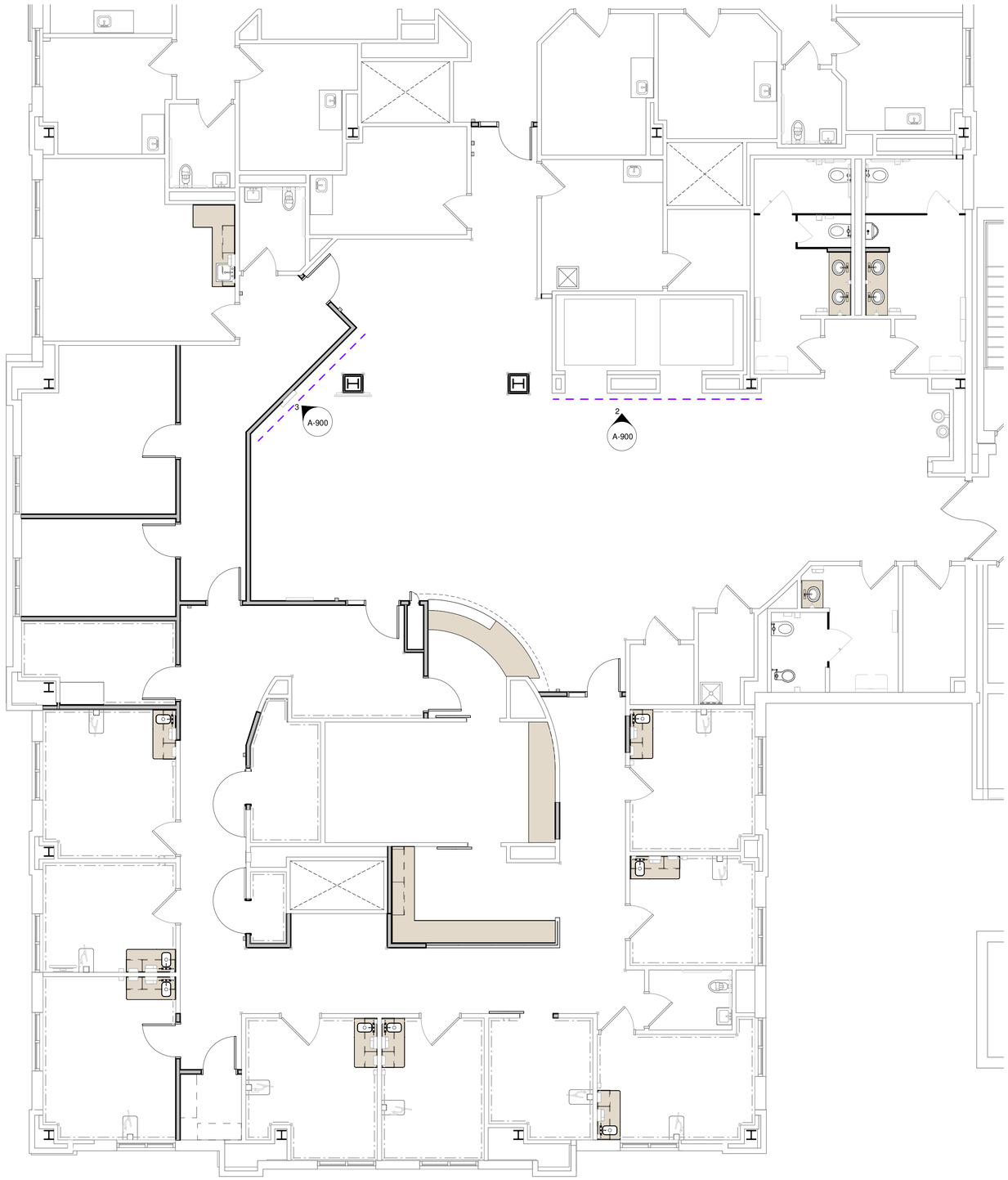
STATE OF OHIO · DAVID C. GLOVER · 13805 · REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
CASEWORK DETAILS

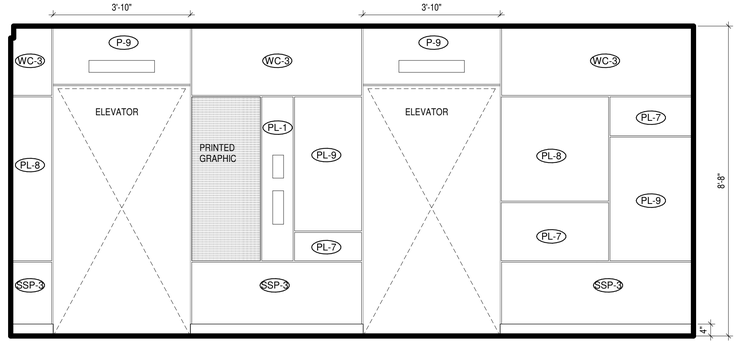
SHEET NO.
A-802

7/16/2025 9:40:49 AM

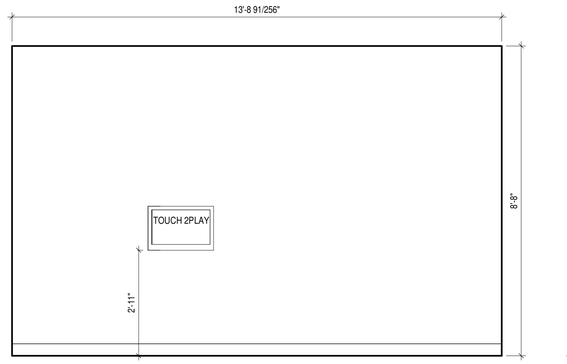


1 A-900 SACRED WALL PLAN
3/16" = 1'-0"

****COORDINATE GRAPHIC WITH EXISTING ELEVATOR CONTROLS, LATERNS, BUTTONS, AND FIRE SAFETY



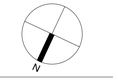
2 A-900 ELEVATOR FACADE ELEVATION
1/2" = 1'-0"



3 A-900 WAITING ROOM GRAPHIC PANEL
1/2" = 1'-0"

NOTES:
1) REMOVE EXISTING ELEVATOR LATERNS AND CALL BUTTONS AND REINSTALL IN THE SAME LOCATION, FLUSH WITH NEW FINISH
2) VERIFY DIMENIONS IN FIELD
3) ELEVATOR DOOR FRAMES TO BE PAINT P-1

LEGEND:
P-1: SHERWIN WILLIAMS SW7102 - WHITE FLOUR
P-9: SHERWIN WILLIAMS SW6801 - REGALE BLUE
PL-1: FORMICA AGED ASH 8844-WR- INSTALL VERTICAL
PL-7: NEVAMAR CREMA WZ00049 - TEXTURED
PL-8:FORMICA 949-MC WHITE MICRODOT FINISH
PL-9 FORMICA 949-SP WHITE SCULPTED FINISH
WC-3: MDC ADIRONDACK #DWP1221
SSP-3: RIGIDIZED METALS SANDEX #4 SATIN



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OPC - 4 GENETICS

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DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
SACRED WALL PLAN

SHEET NO.
A-900

7/16/2025 9:40:54 AM

NO WORK IN GREY HATCHED AREA

1 OPC 4 - GENETICS FFE PLAN
A-901 3/16" = 1'-0"

EQUIPMENT SCHEDULE DCH OPC 4 GENETICS CLINIC

TYPE MARK	DESCRIPTION	O.F.O.I.	O.F.C.I.	C.F.C.I.
dDisp	MOUNTING BRACKET FOR MONITOR		X	
dEQ-44	TOUCH TO PLAY	X		
dMON	PC, DESKTOP COMPUTER, WITH FINGERPRINT READER	X		
dMON2	iGEL TERMINAL, WITH FINGERPRINT READER, PRIVACY SCREEN	X		
dPH-1	PHONE	X		
dPRN2	MULTI FUNCTION DEVICE	X		
dSD	SOAP DISPENSER			X
dTC-1A	STOOL, STAFF WORK	X		
dTR	TRASH CANS	X		
dTV1	TV, INFORMATION MONITOR	X		
dTV1	MOUNTING BRACKET FOR TV			
dTV2	TV, 42", WAITING	X		
dTV2	MOUNTING BRACKET FOR TV	X	X	
dTV3	TV, 32" EXAM ROOM	X		
dTV3	MOUNTING BRACKET FOR TV			
EQ-001	PAPER TOWEL DISPENSER			X
EQ-003	TOILET PAPER DISPENSER			X
EQ-004	HAND SANITIZER DISPENSER	X		
EQ-005	GLOVE BOX	X		
EQ-006	SANI WIPES	X		
EQ-007	SHARPS	X		
EQ-025	COAT HOOK / ROBE HOOK			X
EQ-108	MICROWAVE	X		
EQ-109	ICE/WATER MACHINE	X		
EQ-110	REFRIGERATOR, FULL SIZE	X		
EQ-113	COFFEE MAKER	X		
EQ-114	STADIOMETER	X		
EQ-201	EXAM TABLE, H BRACES	19		
EQ-201A	EXAM/CONSULT TABLE			
EQ-212	SCALE, WHEEL CHAIR	X		
EQ-213	SCALE, INFANT(MOBILE)	X		
EQ-214	OTOSCOPE TIP HOLDER, OTHOMOSCOPE	X		

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Project Number: 6981-12

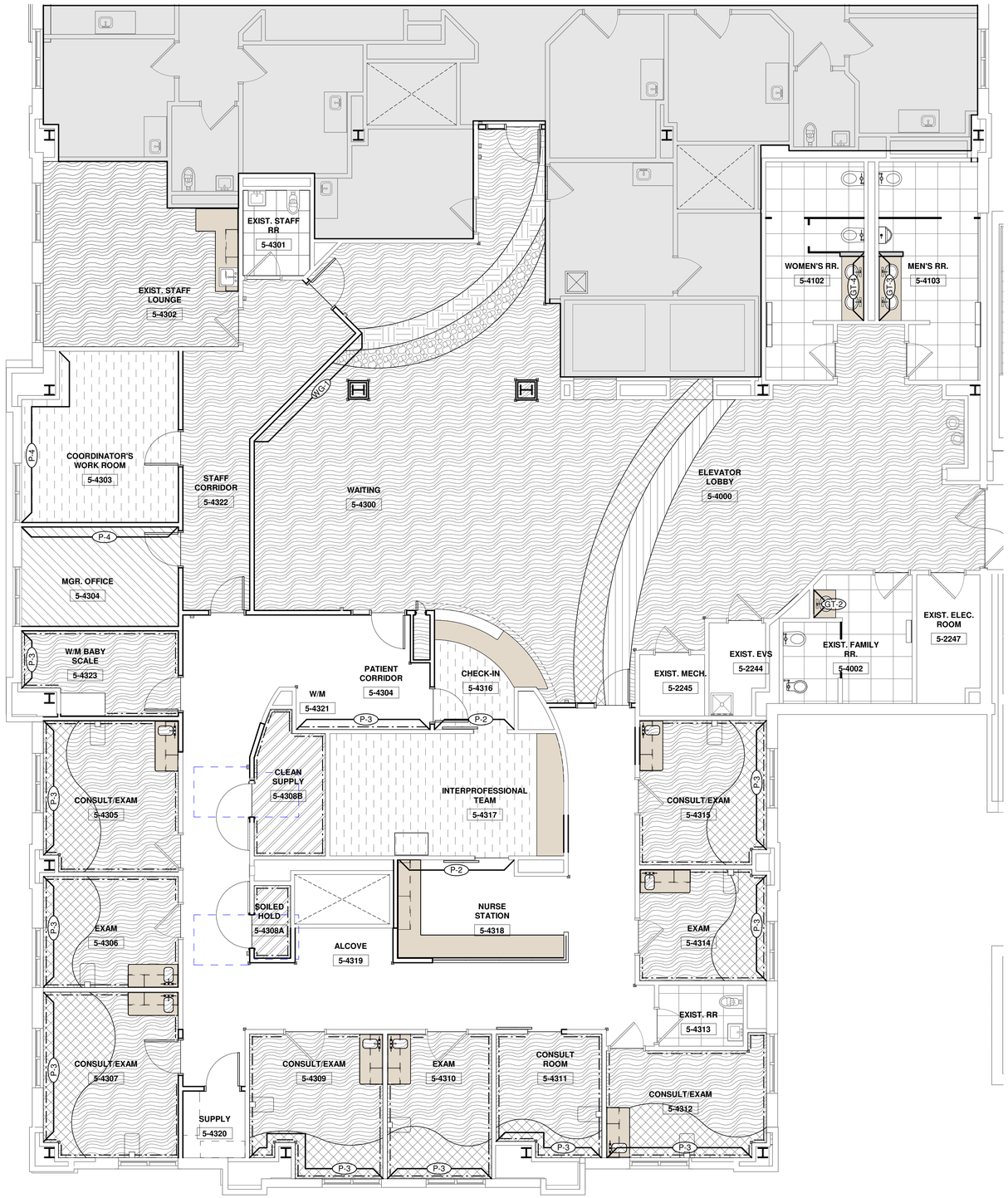
STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
FFE PLAN

SHEET NO.
A-901

7/16/2025 9:41:00 AM



1 GENETICS FINISH PLAN
A-902 3/16" = 1'-0"

NO WORK IN GREY SOLID HATCHED AREA

ISSUED FOR CONSTRUCTION

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OPC - 4 GENETICS

ISSUANCES

No.	Description	Date
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Drawn By: SRS
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Project Number: 6981-12

STATE OF OHIO DAVID C. GLOVER 13805 REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
FINISH PLAN

SHEET NO.
A-902

7/16/2025 9:41:04 AM

FLOOR FINISHES

KEY	MATERIAL		SALES REP. & TESTING DATA
CPT-1 (OFFICE)	**CARPET TILE**	SHAW CONTRACT COLLECTION: IN SYNC COLOR: BALANCED 52485 SIZE: 24" X 24" INSTALLATION: MONOLITHIC	REP.:AMY CLARK (513) 357-7429
CPT-2 (LINEAR TEXTURE)	**CARPET TILE**	INTERFACE CARTERA COLLECTION STYLE: LIMA COLOR: 101347 SIESTA SIZE: TILE 50 CM X 50 CM INSTALLATION: BRICK	REP.:MAGGIE HERMS (513) 500-9523
PT-1 (RESTROOMS)	**PORCELAIN TILE**	LANDMARK MADE IN COLOR: HERITAGE BEIGE SIZE: 24"X24" THICKNESS: 9 MM GROUT: MAPEI KERAPOXY; COLOR: 09 GRAY	REP.:AMANDA THOM (513) 520-0777
SV-1 (NEUTRAL FIELD)	**SHEET VINYL**	MANNINGTON COMMERCIAL BIOSPEC MD COLOR: ALPACA 15527 SIZE: 6' 6" ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SV-2 (GREEN)	**SHEET VINYL**	MANNINGTON COMMERCIAL COLOR ANCHOR - ARC COLOR: PEA SHOOT ETW558 SIZE: 9' ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SV-3 (GREEN)	**SHEET VINYL**	MANNINGTON COMMERCIAL COLOR ANCHOR - PRISM COLOR: SNOW PEA 15436 SIZE: 9' ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SV-4 (TEAL)	**SHEET VINYL**	MANNINGTON COMMERCIAL COLOR ANCHOR - PRISM COLOR: PEACOCK 15435 SIZE: 6' 6" ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SV-5 (TEXTURE TEAL)	**SHEET VINYL**	MANNINGTON COMMERCIAL COLOR ANCHOR - ARC COLOR: PAVO ETW557 SIZE: 9' ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SV-10 (WOOD)	**SHEET VINYL**	MANNINGTON COMMERCIAL REALITIES III COLOR: WICKER 5679R SIZE: 9' ROLL THICKNESS: 2MM	REP.: ROBIN STEVENS 937-478-1046
SC-1	**SEALED CONCRETE**	SEE SPECIFICATIONS	

BASE

RB-1	**RUBBER COVE BASE**	TARKETT (JOHNSONITE) STYLE: DC COLOR: 28 MEDIUM GREY SIZE: 4"	
PTB-1	**PORECALIN TILE BASE**	CROSSVILLE READY TO WEAR UPS COLOR: AV311 BUTTONED UP SIZE: 6" X 24", THICKNESS 3/8" GROUT: MAPEI KERAPOXY: 01 ALABASTER	REP.:ROBYN DUBAN (513)703-5801

WALL PROTECTION

CG-1 (TYPICAL)	**CORNER GUARD**	INPRO CORPORATION STYLE: 160 COLOR: : WHITE SAND HEIGHT: 4'-0" **UNLESS OTHER WISE NOTED**	REP.: AMY DESCHAINE 800-222-5556 ext. 5141
CG-2 (END WALL)	**END WALL PROTECTOR**	INPRO CORPORATION STYLE: 160D COLOR: : WHITE SAND HEIGHT: 4'-0" **UNLESS OTHER WISE NOTED**	REP.: AMY DESCHAINE 800-222-5556 ext. 5141
WP-1 (TYPICAL)	**WALL PROTECTION**	INPRO CORPORATION RIGID SHEET ELEMENTS CAULK ALL SEAMS NO CAP OR TRIM PIECES STYLE: #0110 COLOR: WHITE SANDS THICKNESS: 0.060" HEIGHT: 40"	REP.: AMY DESCHAINE 800-222-5556 ext. 5141

A. ALL FINISHES TO BE INSTALLED PER MANUFACTURER'S DIRECTIONS.
B. ALL FINISH MATERIALS TO BE COMPLIANT WITH CODE INFORMATION LISTED ON A001.
C. REFER TO ELEVATIONS FOR WALL FINISHES, CASEWORK AND SURFACE DETAILS.
D. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL CEILING INFORMATION.
E. REFER TO FINIHS PLANS FOR ADDITIONAL WALL AND FLOORING INFORMATION.
F. SUBMIT ALL SAMPLES FOR ARCHITECTS APPROVAL.
G. ALL ACCESS PANEL DOORS, GRILLES, ETC. ARE TO BE PAINTED TO MATCH WALL COLOR.
H. ALL FLOORING IS TO BE INSTALLED PRIOR TO INSTALLATION OF CASEWORK AND MILLWORK.

CASEWORK

KEY	MATERIAL		SALES REP. & TESTING DATA
PL-1 (TYPICAL VERTICAL CASEWORK)	**PLASTIC LAMINATE**	FORMICA PATTERN:8844- WR AGED ASH FINISH: WOODBRUSH INSTALLATION: GRAIN TO RUN VERTICALLY.	REP.:. JEN SULLIVAN (614) 264-7768
SS-1 (TYPICAL)	**SOLID SURFACE**	LG HI-MACS COLOR: MILKY WAY THICKNESS: 1/2"	REP.: MICHELLE ALLEN (513) 214-9939
SS-2 (ALL SOLID SURFACE SINK BOWLS)	**SOLID SURFACE**	CORIAN COLOR: CAMEO WHITE - 1/2" SEE PLUMBING DRAWING FOR SINK TYPE LOCATIONS	REP.: DIANE IGEL (614) 595-7662
SS-3 (WINDOW SILLS)	**SOLID SURFACE**	CORIAN COLOR: GLACIER WHITE THICKNESS: 1/2"	REP.: DIANE IGEL (614) 595-7662
RP-1	**RESIN PANEL (IN CASEWORK)**	3FORM PATTERN: ENSIGN PATTERN DIRECTION: VERTICAL SANDSTONE FINISH ON ONE SIDE THICKNESS: 3/8"	REP.: SUSAN STUDER (859) 653-4069
TB-1	**FABRIC WRAPPED TACKBOARD**	CARNEGIE SYLE: XOREL DASH COLOR: DASH 33	

CEILINGS

ACT-1 (WAITING ROOM)	**ACOUSTIC CEILING TILE**	ARMSTRONG ULTIMA HEALTH ZONE BEVELED TEGULAR EDGE SIZE: 24" X 24" X 1", 1911 WHITE PRELUDE: 15/16" GRID NRC: 0.75, CAC: 35, LT.REFL: 0.90	REP.:JENN MCCOY (513) 919-2263
ACT-2 (TYPICAL)	**ACOUSTIC CEILING TILE**	ARMSTRONG ULTIMA HEALTH ZONE SQAURE EDGE LAY IN SIZE: 24" X 48" X 1", 1913 WHITE PRELUDE: 15/16" GRID NRC: 0.75, CAC: 35, LT.REFL: 0.90	REP.:JENN MCCOY (513) 919-2263

WALLS

P-1 (TYPICAL)	**PAINT**	SHERWIN WILLIAMS SW7102 WHITE FLOUR
P-2 (NURSE STATION)	**PAINT**	SHERWIN WILLIAMS SW7037 BALANCED BEIGE
P-3 (AQUA)	**PAINT**	SHERWIN WILLIAMS SW6765 SPA
P-4	**PAINT**	SHERWIN WILLIAMS SW7037 ANEW GREY
GT-2 GREEN BLEND	**GLASS TILE**	CROSSVILLE, GLASS BLOX COLOR: G001 LIME SHIMMER, G004 GREEN GLOQ, G005 GLISTEN GREENSIZE: 2" X 4", ORIENTED VERTICALLY GROUT: MAPEI KERAPOXY- COLOR: 01 ALABASTER **1/3, 1/3, 1/3 RANDOM BLEND** — REP.:AMANDA THOM (513) 520-0777
GT-3 BLUE BLEND	**GLASS TILE**	CROSSVILLE, GLASS BLOX COLOR:G019 CLEAR SKY, G020 GLACIER, G022 AEGEAN SIZE: 2" X 4", ORIENTED VERTICALLY GROUT: MAPEI KERAPOXY- COLOR: 01 ALABASTER **1/3, 1/3, 1/3 RANDOM BLEND** — REP.:AMANDA THOM (513) 520-0777
GT-4 PURPLE BLEND	**GLASS TILE**	CROSSVILLE, GLASS BLOX COLOR: G038 LILAC DEW, G039 AMETHYST,G040 PURPLE ZING SIZE: 2" X 4" ORIENT VERTICALLY GROUT: MAPEI KERAPOXY- COLOR: 01 ALABASTER **1/3, 1/3, 1/3 RANDOM BLEND** — REP.:AMANDA THOM (513) 520-0777
WT-1 (TYPICAL)	**PORCELAIN WALL TILE**	CROSSVILLE READY TO WEAR UPS COLOR: AV311 BUTTONED UP SIZE: 12" X 24", THICKNESS 3/8" GROUT: MAPEI KERAPOXY: 01 ALABASTER SCHLUTER SYSTEMS QUADEC-EB, ALONG TOP EDGE OF TILE, AND ALONG EDGE OF TILE AT DOOR FRAME
WG-1	**CUSTOM WALL GRAPHIC**	LEVEL 5 FINISH ON THESE WALLS

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CSWK VERT	CSWK HORIZ	COMMENTS
5-2228	Shower	PT-1	PTB-1	GT-5, WT-1, EP-1B	WT-1, EP-1B	WT-1, EP-1B	WT-1, EP-1B	PL-1	SSM-1	
5-2229	Shower	PT-1	PTB-1	GT-5, WT-1, EP-1B	WT-1, EP-1B	WT-1, EP-1B	WT-1, EP-1B	PL-1	SSM-1	
5-2244	EXIST. EVS	-	-	-	-	-	-	-	-	
5-2245	EXIST. MECH.	-	-	-	-	-	-	-	-	
5-2247	EXIST. ELEC. ROOM	-	-	-	-	-	-	-	-	
5-4000	ELEVATOR LOBBY	SV-10, SV-2, SV-3, SV-4, SV-5	RB-1					PL-1, RP-1	SS-1	
5-4002	EXIST. FAMILY RR.	PT-1	WT-1	WT-1, P-1	WT-1, P-1	WT-1, P-1	WT-1, P-1, GT-2	PL-1	SS-1	
5-4102	WOMEN'S RR.	PT-1	WT-1	WT-1, P-1	WT-1, P-1	WT-1, P-1	WT-1, P-1, GT-4	PL-1	SS-1	
5-4103	MEN'S RR.	PT-1	WT-1	WT-1, P-1	WT-1, P-1, GT-3	WT-1, P-1	WT-1, P-1	PL-1	SS-1	
5-4104	Room	PT-1	WT-1	WT-1, P-1	WT-1, P-1	WT-1, P-1	WT-1, P-1	PL-1	SS-1	
5-4300	WAITING	SV-10, SV-2, SV-3, SV-4, SV-5	RB-1					PL-1, RP-1	SS-1	
5-4302	EXIST. STAFF LOUNGE	SV-10	RB-1	P-1	P-1	P-1	P-1	PL-1	SS-1	
5-4303	COORDINATOR'S WORK ROOM	CPT-2	RB-1	P-1	P-4	P-1	P-1	-	-	
5-4304	PATIENT CORRIDOR	SV-10, SV-5	RB-1	P-1	P-1	P-1	P-1	-	-	
5-4304	MGR. OFFICE	CPT-1	RB-1	P-1	P-1	P-4	P-1	-	-	
5-4305	CONSULT/EXAM	SV-10, SV-5	RB-1	P-1, WP-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4306	EXAM	SV-10, SV-5	RB-1	P-1, WP-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4307	CONSULT/EXAM	SV-10, SV-5	RB-1	P-1, WP-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4308A	SOILED HOLD	SV-1	RB-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	-	-	
5-4308B	CLEAN SUPPLY	SV-1	RB-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	-	-	
5-4309	CONSULT/EXAM	SV-10, SV-5	RB-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4310	EXAM	SV-10, SV-5	RB-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4311	CONSULT ROOM	SV-10, SV-5	RB-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4312	CONSULT/EXAM	SV-10, SV-5	RB-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	PL-1	SS-1	
5-4313	EXIST. RR									
5-4314	EXAM	SV-10, SV-5	RB-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	P-3, WP-1	PL-1	SS-1	
5-4315	CONSULT/EXAM	SV-10, SV-5	RB-1	P-1, WP-1	P-1, WP-1	P-1, WP-1	P-3, WP-1	PL-1	SS-1	
5-4316	CHECK-IN	CPT-2	RB-1	P-2	P-1	P-1	P-1	PL-1	SS-1	
5-4317	INTERPROFESSIONAL TEAM	CPT-2	RB-1	P-1	P-1	P-1	P-1	-	SS-1	
5-4318	NURSE STATION	SV-10	RB-1	P-1	P-1	P-2	-	PL-1	SS-1	
5-4319	ALCOVE	SV-10	RB-1	P-1	P-1	P-1	P-1	-	-	
5-4320	SUPPLY	SV-10	RB-1	P-1	P-1	P-1	P-1	-	-	
5-4321	W/M	SV-10	RB-1	P-3, WP-1	P-1	P-1	P-1	-	-	
5-4322	STAFF CORRIDOR	SV-10	RB-1	P-1	P-1	P-1	P-1	-	-	
5-4323	W/M BABY SCALE	SV-10	RB-1	P-1, WP-1	P-3, WP-1	P-1, WP-1	P-1, WP-1	-	-	-

CHAMPLIN ARCHITECTURE

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OPC - 4
GENETICS

ISSUANCES

No.	Description	Date
0	Issued for Construction	07/15/25

Drawn By: **SRS**
Checked By: **CAS**
Client Number: **627**
Project Number: **6981-12**

STATE OF OHIO * DAVID C. GLOVER * 13805 REGISTERED ARCHITECT

DAVID C. GLOVER
LICENSE #13805
EXPIRATION DATE 12/31/2025

DRAWING TITLE
FINISH LEGEND AND DETAILS

SHEET NO.
A-903

7/16/2025 9:41:05 AM

ISSUED FOR CONSTRUCTION

PIPING DESIGNATIONS

DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER RETURN	
140	HOT WATER PIPE (140 DEGS. F.)
140R	HOT WATER RETURN PIPE (140 DEGS. F.)
180	HOT WATER PIPE (180 DEGS. F.)
180R	HOT WATER RETURN PIPE (180 DEGS. F.)
CWS	COMBINATION FIRE SUPPRESSION & DOMESTIC WATER SERVICE
NPW	NON-POTABLE
PW	PURE WATER PIPE
SCW	SOFT COLD WATER
TW	TEMPERED WATER PIPE
WS	WATER SERVICE
AV	ACID VENT PIPE
AW	ACID WASTE PIPE
GD	GARAGE DRAINAGE PIPE
IV	INDIRECT VENT PIPE
IW	INDIRECT WASTE PIPE
K	KITCHEN WASTE PIPE
OD	(OVERFLOW) SECONDARY STORM DRAINAGE PIPE
PD	PUMP DISCHARGE PIPE
TP	TRAP PRIMER DISCHARGE PIPE
SAN	SANITARY DRAINAGE PIPE
STM	STORM DRAINAGE PIPE
V	SANITARY SEWER VENT
DS	SPRINKLER PIPE (DRY)
F	FIRE SUPPRESSION (STANDPIPE / SPRINKLER MAIN)
FS	FIRE SERVICE
PS	PRE-ACTION / DELUGE SPRINKLER PIPE
S	SPRINKLER PIPE (WET)
SD	SPRINKLER DRAIN PIPE
CA	COMPRESSED AIR PIPE
AR	ARGON PIPE
H2	HYDROGEN PIPE
HE	HELIUM PIPE
LA	LABORATORY COMPRESSED AIR PIPE
LV	LABORATORY VACUUM PIPE
LV	LABORATORY VENT PIPE
LW	LABORATORY WASTE PIPE
CO2	MEDICAL CARBON DIOXIDE PIPE
IA	MEDICAL INSTRUMENT AIR PIPE
MA	MEDICAL COMPRESSED AIR PIPE
MA-IN	MEDICAL COMPRESSED AIR-INTAKE PIPE
MV	MEDICAL SURGICAL VACUUM PIPE
MV-EX	MEDICAL SURGICAL VACUUM-EXHAUST PIPE
N2	MEDICAL NITROGEN PIPE
NO	MEDICAL NITROUS OXIDE PIPE
O2	MEDICAL OXYGEN PIPE
WAGD	WASTE ANESTHESIA GAS DISPOSAL PIPE
DF	DIESEL FUEL PIPE
G	NATURAL GAS PIPE
GS	GAS SERVICE
FOF	FUEL OIL FLOW LINE
FOG	FUEL OIL GAUGE LINE
FOR	FUEL OIL RETURN LINE
FOS	FUEL OIL SUPPLY LINE
NG	GASOLINE PIPE (NON-LEAD)
P	PROPANE GAS PIPE
T	FUEL TANK VENT PIPE

VALVES AND FITTINGS

	AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN AND OUT
	CLEANOUT
CO	CLEANOUT - TO GRADE OR FINISHED FLOOR
	CONCENTRIC PIPE REDUCER
FOT / FOB	ECCENTRIC PIPE REDUCER
	END CAP
P	GAUGE - PRESSURE
T	GAUGE - TEMPERATURE OR THERMOMETER
V	GAUGE - VACUUM WITH STOP
	HOSE BIB
	MIXING FAUCET
	PLUG
	PLUG - PRESSURE AND TEMPERATURE TEST
	STRAINER
	STRAINER - WITH A BLOW DOWN VALVE AND HOSE CONNECTION
TP	TRAP PRIMER
	UNION
	VALVE - CHECK
	VALVE - COMBINATION SHUTOFF AND BALANCING (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	VALVE - DRAIN WITH HOSE END CONNECTION
	VALVE - PLUG
P/T	VALVE - PRESSURE AND TEMPERATURE SAFETY RELIEF. PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE.
	VALVE - PRESSURE REGULATING
	VALVE - SAFETY RELIEF. PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE.
VB	VALVE - SHUTOFF AND BOX
	VALVE - SHUTOFF: BALL, GATE, BUTTERFLY VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	VALVE - SHUTOFF ON RISER
S	VALVE - SOLENOID
	WALL HYDRANT

FIRE SUPPRESSION SYMBOLS

	FIRE HYDRANT
FS	FLOW SWITCH
	SPRINKLER - CONCEALED PENDENT
	SPRINKLER - INSTITUTIONAL PENDENT
	SPRINKLER - PENDENT
	SPRINKLER - RECESSED PENDENT
	SPRINKLER - SIDE WALL
	SPRINKLER - UPRIGHT
FDH	VALVE - FIRE DEPARTMENT
	VALVE - GATE OS&Y
PIV	VALVE - POST INDICATOR
S	VALVE - SUPERVISED

GENERAL FLOOR PLAN NOTES

2	RISER OR STACK NUMBER
B / P2	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
1 / P2	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
OH / 1	FIRE SUPPRESSION HAZARD CLASSIFICATION AND HAZARD CLASSIFICATION GROUP
P1 OR P1	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	CONNECT TO EXISTING
	END OF DEMOLITION
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
A1	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)

PIPING SYMBOLS

	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
	DIRECTION OF PITCH
D	DROP
R	RISE
	FLOW DIRECTION DESIGNATION
	ELBOW DOWN
	ELBOW UP
	PIPE RISER
	BRANCH TEE CONNECTION (**NOTE**: BULLHEAD TEE'S ARE NOT PERMITTED)
BC	BOTTOM CONNECTION (45°)
	BOTTOM CONNECTION (90°)
TC	TOP CONNECTION (45°)
	TOP CONNECTION (90°)
M	WATER METER
	EXPANSION JOINT
	PUMP
	FLEX PIPING

SPECIALTY GAS SYMBOLS

	AIR OUTLET - LAB TYPE
	NATURAL GAS OUTLET - LAB TYPE
	VACUUM OUTLET - LAB TYPE
VC	VACUUM CLEANING STATION - FLOOR
VC	VACUUM CLEANING STATION - WALL
	MEDICAL AIR OUTLET - HOSPITAL TYPE
	MEDICAL VACUUM INLET - HOSPITAL TYPE
	OXYGEN OUTLET - HOSPITAL TYPE
	CARBON DIOXIDE OUTLET - HOSPITAL TYPE
	NITROGEN OUTLET - HOSPITAL TYPE
	NITROUS OXIDE OUTLET - HOSPITAL TYPE
	WAGD INLET - HOSPITAL TYPE

ABBREVIATIONS

AAP - AREA ALARM PANEL (MEDICAL GAS)
AC - AIR COMPRESSOR OR AIR CONDITIONER
ACC - ACCESS
ACCU - AIR COOLED CONDENSING UNIT
AD - ACCESS DOOR OR AREA DRAIN
ADB - ACID DILUTION BASIN
ADJ - ADJUSTABLE
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
ALT - ALTERNATE
AP - ACCESS PANEL
APPROX - APPROXIMATE
AR - AIR RECEIVER OR ARGON
ARCH - ARCHITECT OR ARCHITECTURAL
ASSY - ASSEMBLY
AV - ACID VENT
AW - ACID WASTE

BDD - BACK DRAFT DAMPER
BFP - BACKFLOW PREVENTER
BLDG - BUILDING
BOB - BOTTOM OF BEAM
BOD - BOTTOM OF DUCT
BOE - BOTTOM OF EQUIPMENT
BOF - BOTTOM OF FOOTING
BOG - BOTTOM OF GRILLE
BOP - BOTTOM OF PIPE
BOT - BOTTOM
BT - BATHTUB
BTU - BRITISH THERMAL UNIT
BTUH - BRITISH THERMAL UNIT PER HOUR
BTWN - BETWEEN

CA - COMPRESSED AIR
CB - CATCH BASIN
CBD - COUNTER BALANCED BACKDRAFT DAMPER
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM - CUBIC FEET PER MINUTE
CHS - CHILLED WATER SUPPLY
CHR - CHILLED WATER RETURN
CI - CAST IRON
CK - CLINICAL SINK
CLG - CEILING
CMU - CONCRETE MASONRY UNIT
CO - CLEAN OUT
CO2 - MEDICAL CARBON DIOXIDE
CONN - CONNECT OR CONNECTION
CONTR - CONTRACTOR
CORR - CORRIDOR
CS - CLINICAL SINK OR COLD SOFT WATER
CTR - CENTER
CU - COPPER
CW - COLD WATER
CWS - COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY
CWR - CONDENSER WATER RETURN

D - DEPTH OR DRAIN LINE
DD - DECK DRAIN
DCW - DOMESTIC COLD WATER
DET - DETAIL
DF - DRINKING FOUNTAIN OR WATER COOLER OR DIESEL FUEL
DFU - DRAINAGE FIXTURE UNIT
DHW - DOMESTIC HOT WATER
DHWR - DOMESTIC HOT WATER RETURN
DI - DEIONIZED WATER
DIA - DIAMETER
DIM - DIMENSION
DN - DOWN
DS - DOWN SPOUT OR SPRINKLER (DRY)
DT - PERFORATED DRAIN TILE
DWG - DRAWING
DWH - DOMESTIC WATER HEATER

EA - EACH
EC - ELECTRICAL CONTRACTOR (DIVISION 26)
EEW - EMERGENCY EYE WASH
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATOR
EQ - EQUAL
EQUIP - EQUIPMENT
ET - EXPANSION TANK
ETR - EXISTING TO REMAIN
ES - EMERGENCY SHOWER
EQS - EQUIPMENT SUPPLIER
EWC - ELECTRICAL WATER COOLER
EXH - EXHAUST AIR
EXP - EXPANSION
EXT - EXTERIOR
EX - EXISTING

F - FIRE SUPPRESSION (STANDPIPE/SPRINKLER MAIN)
FCE - FIRE CONTROL EQUIPMENT
FCO - FLOOR CLEANOUT
FD - FLOOR DRAIN
FDC - FIRE DEPARTMENT CONNECTION
FDV - FIRE DEPARTMENT VALVE
FF - FINISHED FLOOR ELEVATION
FHC - FIRE HOSE CABINET
FLR - FLOOR
FM - FORCE MAIN
FOB - FLAT ON BOTTOM
FOF - FUEL OIL FLOW
FOG - FUEL OIL GAUGE
FOR - FUEL OIL RETURN
FOS - FUEL OIL SUPPLY
FOT - FLAT ON TOP
FPM - FEET PER MINUTE
FR - FIRE RISER
FS - FLOOR SINK OR FIRE SERVICE
FSC - FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT - FEET
FTG - FOOTING

G - GAS OR NATURAL GAS
GA - GAUGE
GAL - GALLON
GALV - GALVANIZED
GC - GENERAL TRADES CONTRACTOR
GD - GARAGE DRAINAGE
GPM - GALLONS PER MINUTE
GS - GAS SERVICE
GW - GREASE WASTE

H2 - HYDROGEN
HB - HOSE BIBB
HC - HVAC CONTRACTOR (DIVISION 23)
HD - HUB DRAIN
HE - HELIUM
HG - REFRIGERANT HOT GAS
HP - HORSEPOWER OR HIGH POINT
HPC - HIGH PRESSURE CONDENSATE RETURN
HPS - HIGH PRESSURE STEAM SUPPLY
HPW - HIGH PURITY WATER
HPWR - HIGH PURITY WATER RETURN
HR - HOSE REEL
HT - HEAT TRACE
HTR - HEATER
HVAC - HEATING, VENTILATING, AND AIR CONDITIONING
HW - HOT WATER
HWR - HEATING HOT WATER RETURN
HWS - HEATING HOT WATER SUPPLY

IA - MEDICAL INSTRUMENT AIR
ID - INSIDE DIAMETER
INV - INVERT ELEVATION
IN - INCHES
IV - INDIRECT VENT
IW - INDIRECT WASTE

JS - JANITOR SINK

K - KITCHEN WASTE
KEC - KITCHEN EQUIPMENT CONTRACTOR

L - LENGTH
LA - LABORATORY COMPRESSED AIR
LAV - LAVATORY
LBS - POUNDS
LCW - LABORATORY COLD WATER
LEC - LABORATORY EQUIPMENT CONTRACTOR
LHW - LABORATORY HOT WATER
LHWR - LABORATORY HOT WATER RETURN
LPC - LOW PRESSURE CONDENSATE RETURN
LPS - LOW PRESSURE STEAM SUPPLY
LV - LABORATORY VACUUM OR LABORATORY VENT
LW - LABORATORY WASTE

MA - MEDICAL COMPRESSED AIR
MAP - MASTER ALARM PANEL (MEDICAL GAS)
MAX - MAXIMUM
MB - MOP BASIN
MC - MECHANICAL CONTRACTOR (DIVISION 23)
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE
MIN - MINIMUM OR MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING
MPC - MEDIUM PRESSURE CONDENSATE RETURN
MPS - MEDIUM PRESSURE STEAM SUPPLY
MU - WATER MAKE-UP
MV - MEDICAL SURGICAL VACUUM

N2 - MEDICAL NITROGEN
N/C - NORMALLY CLOSED
NG - GASOLINE (NON-LEAD)
NIC - NOT IN CONTRACT
N/O - NORMALLY OPEN
NO - MEDICAL NITROUS OXIDE
NOM - NOMINAL
NPW - NON-POTABLE WATER
NPT - NATIONAL PIPE THREAD
NTS - NOT TO SCALE

02 - MEDICAL OXYGEN
OA - OUTDOOR AIR
OD - OUTSIDE DIAMETER OR OVERFLOW DRAIN
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

P - PROPANE GAS
PC - PLUMBING CONTRACTOR (DIVISION 22) OR PUMPED CONDENSATE RETURN
PD - PUMP DISCHARGE OR PARAPET DRAIN
PIV - POST INDICATOR VALVE
PLBG - PLUMBING
PS - PRE-ACTION/DELUGE SPRINKLER
PRESS - PRESSURE
PRV - PRESSURE REGULATING VALVE
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PSV - PRESSURE SUSTAINING VALVE
PSIG - POUNDS PER SQUARE INCH GAUGE
PW - PURE WATER

RA - RETURN AIR
RAD - RADIUS
RCP - REINFORCED CONCRETE PIPE
RD - ROOF DRAIN
REC - RECESSED
REQD - REQUIRED
RI - ROUGH IN
RL - REFRIGERANT LIQUID
ROS - REVERSE OSMOSIS WATER SUPPLY
ROR - REVERSE OSMOSIS WATER RETURN
RPM - REVOLUTIONS PER MINUTE
RS - REFRIGERANT SUCTION
RV - RELIEF VALVE

S - SPRINKLER (WET)
SA - SHOCK ARRESTOR OR SUPPLY AIR
SAN - SANITARY OR SANITARY DRAIN
SCH - SCHEDULE
SCW - SOFT COLD WATER
SD - SPRINKLER DRAIN OR SUBSOIL DRAIN
SH - SHOWER
SHT - SHEET
SK - SINK
SPEC - SPECIFICATIONS
SQ - SQUARE
SR - SUPPLY RISER
SS - SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
STD - STANDARD
STM - STORM OR STORM DRAINAGE
STRUC - STRUCTURAL OR STRUCTURE
SUC - SITE UTILITY CONTRACTOR

T - FUEL TANK VENT
TD - TRENCH DRAIN
TEMP - TEMPERATURE
TOB - TOP OF BEAM
TOD - TOP OF DUCT
TOE - TOP OF EQUIPMENT
TOF - TOP OF FOOTING
TOJ - TOP OF JOIST
TOP - TOP OF PIPE
TOS - TOP OF SLAB OR TOP OF STEEL
TF - TRAP FILLER
TP - TRAP PRIMER OR TRAP PRIMER DISCHARGE
TW - TEMPERED WATER
TYP - TYPICAL

UR - URINAL
UNO - UNLESS NOTED OTHERWISE

V - VENT OR SANITARY SEWER VENT
VAC - VACUUM
VC - VACUUM CLEANING
VCV - VACUUM CLEANING VALVE
VE - VACUUM EXHAUST
VEL - VELOCITY
VIB - VALVE IN BOX
VOL - VOLUME
VP - VACUUM PUMP
VS - VENT STACK
VTR - VENT THROUGH ROOF
VR - VENT RISER

W/ - WITH
W/O - WITHOUT
W - WASTE
WAGD - WASTE ANESTHESIA GAS DISPOSAL
WC - WATER CLOSET
WCO - WALL CLEANOUT
WH - WALL HYDRANT OR WATER HEATER
WIV - WALL INDICATOR VALVE
WS - WATER SERVICE

YCO - YARD CLEANOUT

ZVC - ZONE VALVE CABINET

GENERAL NOTES

A. ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURE AREAS), UNLESS OTHERWISE NOTED.

B. REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR PIPING, PIPE SIZES AND PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.

C. ABOVE CEILING UTILITY SPACE IS LIMITED. COORDINATION WITH ALL TRADES IS CRITICAL, PRIOR TO INSTALLATION OF ANY WORK.

D. LOCATIONS AND SIZES OF EXISTING PIPING HAVE BEEN DETERMINED FROM A REVIEW OF EXISTING DRAWINGS AND/ OR SITE INSPECTION, WHERE POSSIBLE. FIELD VERIFICATION OF EXACT LOCATIONS, ELEVATIONS, INVERTS, SIZES, DIRECTION OF FLOW, ETC. SHALL BE REQUIRED PRIOR TO BEGINNING NEW WORK.

E. ALL PIPING NOTED TO BE DEMOLISHED SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED, OR REMOVED BACK TO POINTS OF CONNECTION IN NEW WORK. INACCESSIBLE PIPING, WHERE SO NOTED, TO BE ABANDONED SHALL BE DISCONNECTED FROM ACTIVE SYSTEMS AND CAPPED OR PLUGGED IN CONCEALED LOCATIONS.

F. ALL ABANDONED PIPING SHALL BE CAPPED AT INLET AND OUTLET. DOMESTIC WATER PIPING SHALL BE CAPPED WITHIN TWO (2) PIPE DIAMETERS OF ACTIVE BRANCH/ MAIN. NO DEAD LEGS WILL BE PERMITTED.

G. NEW CONNECTIONS TO EXISTING PIPING SHALL BE WITH THE SAME SIZE AS THE EXISTING PIPING, UNLESS OTHERWISE NOTED.

H. ALL REMOVED MATERIAL AND EQUIPMENT, SO DESIGNATED BY THE OWNER, SHALL BE TURNED OVER AND PLACED WHERE DIRECTED. ALL MATERIAL AND EQUIPMENT, WHICH THE OWNER DOES NOT WISH TO RETAIN, SHALL BECOME THE PROPERTY OF THE CONTRACTOR RESPONSIBLE FOR THE REMOVAL.

I. ANNULAR SPACE OF PIPE, CONDUIT AND OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THRU RATED FLOORS SHALL ALSO BE FIRESTOPPED TO RETARD PASSAGE OF FIRE AND SMOKE. REFER TO ARCHITECTURAL DRAWING(S) FOR CONSTRUCTION, LAYOUT AND FIRE RATINGS OF FLOORS, WALLS, PARTITIONS AND OTHER BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR PENETRATION DETAILS.

FIRE SUPPRESSION DESIGN NOTES

A. COMPLIANT WITH THE LOCAL FIRE CODE, PRIOR TO BEGINNING CONSTRUCTION, AN IMPAIRMENT PLAN FOR THE FIRE PROTECTION SYSTEM(S) MUST BE SUBMITTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE IMPAIRMENT PLAN SHALL REMAIN AVAILABLE ON SITE FOR FIELD INSPECTORS. EXISTING SPRINKLER SYSTEM(S) AND ALL ASSOCIATED EQUIPMENT SHALL REMAIN IN OPERATION THROUGHOUT THE DURATION OF CONSTRUCTION. WHEN SPRINKLER SYSTEM MODIFICATIONS REQUIRE THE SYSTEM TO BE TAKEN OUT OF SERVICE, THE CONTRACTOR MAY DO SO IN ACCORDANCE WITH THE APPROVED IMPAIRMENT PLAN, INCLUDING NOTIFICATION OF THE FIRE CODE OFFICIAL. DURING THESE SHUTDOWNS, THE BUILDING SHALL EITHER BE EVACUATED, OR AN APPROVED FIRE WATCH UNTIL THE SYSTEM(S) HAVE BEEN RETURNED TO SERVICE. PRIOR TO LEAVING THE WORK SITE EACH DAY, THE CONTRACTOR SHALL RESTORE THE SPRINKLER SYSTEM(S) TO SERVICE, OR A FIRE WATCH SHALL BE MAINTAINED UNTIL ALL SYSTEMS ARE RETURNED TO FULL OPERATION.

B. ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.

C. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND GENERAL TRADES CONSTRUCTION INFORMATION. COORDINATE SPRINKLER LOCATIONS WITH CEILING DEVICES (LIGHTING, GRILLES, ETC.) OBTAIN ARCHITECTS APPROVAL OF SPRINKLER LAYOUT PRIOR TO INSTALLATION. FINAL FINISHED APPEARANCE OF WORK MUST BE APPROVED BY THE ARCHITECT.

D. CONTRACTOR SHALL MAKE REQUIRED FLOW TESTS, LAY OUT SYSTEMS, OBTAIN APPROVALS FROM THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S INSURER PRIOR TO BEGINNING ANY FABRICATION OR INSTALLATION WORK.

E. REFER TO DRAWINGS AND SPECIFICATIONS FOR COMPLETE SCOPE OF WORK.

RENOVATION OF EXISTING TOTALLY FIRE SUPPRESSED BUILDING

1. RENOVATION AREA(S) TO BE TOTALLY SPRINKLERED. EXISTING SPRINKLER SYSTEMS TO BE MODIFIED TO CONFORM TO THE NEW LAYOUT. NEW SPRINKLERS ARE TO BE INTEGRATED INTO THE EXISTING SPRINKLER SYSTEM. ALL EXISTING SPRINKLERS, REMOVED OR DISTURBED IN RENOVATION AREAS, SHALL BE DISPOSED OF AND REPLACED WITH NEW SPRINKLERS, AS INDICATED ON THE DRAWINGS.

F. BASIS FOR DESIGN OF FIRE SUPPRESSION SYSTEM(S) TO BE:

1. ORDINARY HAZARD, (GROUP 1) 1500 SQUARE FEET, 0.15 GPM/ SQ. FT., 130 SQUARE FEET MAXIMUM PER SPRINKLER. 250 GPM HOSE STREAM ALLOWANCE.

G. AREA OF OPERATION REDUCTIONS AND INCREASES SHALL BE CALCULATED PER NFPA STANDARDS. VERIFY DENSITIES WITH GOVERNING AUTHORITIES AND OWNER'S INSURER BEFORE PROCEEDING WITH DESIGN OF SYSTEM(S). IF GOVERNING AUTHORITIES OR OWNER'S INSURER REQUIREMENTS ARE MORE STRINGENT THOSE REQUIREMENTS SHALL PREVAIL. ALL AREAS ARE TO BE LIGHT HAZARD CLASSIFICATION, UNLESS OTHERWISE INDICATED ON THE PLANS OR REQUIRED BY THE GOVERNING AUTHORITY.

H. PROVIDE THE FOLLOWING SPRINKLER TYPES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PENDENT TYPE SPRINKLERS SHALL BE LOCATED IN THE CENTER OF SQUARE PADS AND AT THE CENTER OR AT QUARTERPOINTS OF THE LONG AXIS OF RECTANGULAR PADS.

1. NEW SPRINKLERS IN RENOVATION AREAS SHALL BE SIMILAR IN APPEARANCE TO EXISTING SPRINKLERS IN ADJACENT SPRINKLERED AREAS. ALL NEW SPRINKLERS TO BE QUICK RESPONSE TYPE.

I. ALL PIPING SHOWN (WITH SIZES) SHALL BE INSTALLED AS SIZED UNLESS HYDRAULIC CALCULATIONS INDICATED A LARGER SIZE IS NECESSARY. FOR PIPING NOT SHOWN OR SIZED ON THE DRAWINGS, PIPE SIZING SHALL BE BASED ON FIRE SUPPRESSION CONTRACTORS HYDRAULIC CALCULATIONS.

J. EXERCISE SPECIAL CARE TO COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES.

SHEET LIST

SHEET NUMBER	SHEET NAME
P001	LEGEND, INDEX, & GENERAL NOTES
P002	SPECIFICATIONS & SCHEDULE
P101	PLUMBING LEVEL 3 - NEW WORK
P102	PLUMBING LEVEL 4 - NEW WORK
PD101	PLUMBING LEVEL 4 - REMOVALS

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ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By MVC
Checked By DPB
Client Number
Project Number 6981-12

STATE OF OHIO — JEREMY M. WILLIAMS — E-81232 — 7-16-2025 — REGISTERED PROFESSIONAL ENGINEER — 2025-0507

DRAWING TITLE
LEGEND, INDEX, & GENERAL NOTES

SHEET NO.
P001

7/16/2025 8:50:15 AM

ISSUED FOR CONSTRUCTION

PLUMBING/FIRE SUPPRESSION SPECIFICATIONS

1. PROVIDE A COMPLETE PLUMBING AND FIRE SUPPRESSION SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING PRINCIPAL CATEGORIES:
   A. COMPLETE PLUMBING SYSTEMS CONSISTING OF DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN, SANITARY WASTE AND VENT.
   B. FIRE SUPPRESSION SYSTEM AND ALL DEVICES AND EQUIPMENT.
   C. ALTERATION WORK IN THE EXISTING BUILDING.
2. WORK SHALL BE PERFORMED BY CONTRACTORS THAT ARE FULLY CERTIFIED BY THE STATE OR AUTHORITY HAVING JURISDICTION.
3. OBTAIN AND PAY FOR ALL PERMITS, UPON COMPLETION. PROVIDE A CERTIFICATE OF APPROVAL FROM THE GOVERNING INSPECTION AUTHORITY.
4. DURING THE BIDDING PERIOD INSPECT THE SITE AND PREMISES OF THE PROPOSED WORK. REPORT IMMEDIATELY ANY SIGNIFICANT OBSERVED DISCREPANCIES AS RELATED TO THE PLANS OR THE REQUIRED WORK. ALL WORK SHALL COMPLY WITH OHIO PLUMBING CODE, OHIO BUILDING CODE, AND ALL OTHER APPLICABLE CODES, LAWS AND ORDINANCES.
5. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, EQUIPMENT, AND MATERIAL ENTERING INTO THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. ANY WORK PROVEN TO BE DEFECTIVE DURING THIS PERIOD SHALL BE MADE GOOD BY THIS CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
6. WHERE TRADE NAMES, BRANDS OR MANUFACTURERS ARE LISTED, ANY ONE OF THE SEVERAL NAMED ARE CONSIDERED EQUALLY ACCEPTABLE. NO UNNAMED PRODUCT OR MATERIAL SHALL BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER. SUBMIT ELECTRONIC SHOP DRAWINGS ON MAJOR ITEMS OF EQUIPMENT AND MATERIALS. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO HEAPY PROJECT MANAGER ***DEREK SHAW - DASHAW@HEAPY.COM*** AND HEAPY HEALTHCARE CONSTRUCTION ADMIN - HEAPYHC-CA@HEAPY.COM.
   A. FAILURE TO DISTRIBUTE CONSTRUCTION ADMINISTRATION ITEMS IN THIS MANNER MAY RESULT IN DELAYED RESPONSES.
   B. COORDINATE CONSTRUCTION ADMINISTRATION COMMUNICATON PLAN WITH GC AND ENGINEER AT ONSET OF CONSTRUCTION.
   C. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS AND MATERIALS:
      1. PIPE FITTINGS AND JOINING METHODS FOR THE VARIOUS SYSTEMS.
      2. PIPE HANGERS.
      3. PIPE INSULATION
      4. PLUMBING FIXTURE AND ACCESSORIES.
      5. FIRESTOPPING.
      6. SPRINKLERS, SPRINKLER DRAWINGS AND CALCULATIONS.
7. PLAN WORK AS TO PROVIDE REASONABLE CONTINUOUS SERVICE OF EXISTING SYSTEMS. SHUTDOWN OF SYSTEMS SHALL BE BID ***OUTSIDE OF NORMAL*** WORKING HOURS.
8. ALL PIPING PROVIDED IN THIS WORK SHALL BE PRESSURE TESTED AS SPECIFIED BELOW:
   A. DOMESTIC COLD, HOT AND HOT WATER RECIRCULATING PIPING – HYDROSTATIC AT 125 PSI OR 1.5 TIMES THE MAXIMUM SYSTEM OPERATING PRESSURE, WHICHEVER IS HIGHER, FOR 6 HOURS AT THE LOW POINT OF THE SYSTEM.
   B. SOIL, WASTE AND VENT PIPING – ROUGH TEST AND FINAL TEST IN CONFORMANCE TO THE PLUMBING CODE REQUIREMENTS.
   C. FIRE SUPPRESSION PIPING - HYDROSTATIC AT 200 PSI MINIMUM, AND NOT LESS THAN 50 PSI ABOVE THE MAXIMUM PRESSURE, FOR A PERIOD NOT LESS THAN 2 HOURS.
9. DISINFECTION OF PIPING:
   A. ALL NEW DOMESTIC WATER SYSTEMS INCLUDING ANY EXISTING DOMESTIC WATER PIPING, TANKS AND EQUIPMENT OUT OF SERVICE FOR MORE THAN 14 DAYS SHALL BE DISINFECTED BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.
   B. KEEP NEW SYSTEMS ISOLATED FROM THE EXISTING SYSTEMS UNTIL AFTER DISINFECTION IS COMPLETED AND PROVEN ACCEPTABLE BY BACTERIOLOGICAL TEST RESULTS. PROVIDE A SERVICE COCK AT THE POINT OF CONNECTION FOR INJECTION OF THE DISINFECTING AGENT. IF IT IS NECESSARY TO USE A POTABLE WATER SUPPLY IN THE PERFORMANCE OF THE DISINFECTION PROCEDURES, PROVIDE TEMPORARY REDUCED PRESSURE ZONE BACK FLOW PREVENTION UNTIL DISINFECTION AND ANALYSIS RESULTS ARE COMPLETE.
   C. THOROUGHLY FLUSH THE SYSTEM PRIOR TO DISINFECTION. DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LOCAL AUTHORITIES PRESCRIBED METHOD, OR WHEN A LOCAL AUTHORITY PRESCRIBED METHOD IS NOT AVAILABLE, IN ACCORDANCE WITH THE LOCALLY ADOPTED PLUMBING CODE OR AWWA C651 OR AWWA C652 STANDARDS. DISINFECTION SHALL BE BY MEANS OF A CHLORINE SOLUTION INJECTED INTO THE WATER SYSTEM NEAR THE SOURCE. EACH OUTLET SHALL BE TESTED TO PROVE PRESENCE OF MINIMUM CHLORINE CONCENTRATION. DOCUMENT THAT ADEQUATE LEVELS OF CHLORINE ARE PRESENT IN ALL PARTS OF THE SYSTEM. FOLLOWING THE APPROPRIATE RETENTION PERIOD, FLUSH OUT THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL FREE CHLORINE CONTENT IS EQUAL TO THE LEVEL OF THE INCOMING WATER, BUT NOT GREATER THAN 1.5 PARTS PER MILLION OR UNTIL APPROVED BY THE HEALTH DEPARTMENT.
   D. PERFORM A BACTERIOLOGICAL ANALYSIS OF THE POTABLE WATER SYSTEM IN COMPLIANCE WITH HEALTH DEPARTMENT REQUIREMENTS. ONE TEST SAMPLE SHALL BE COLLECTED FROM THE END OF THE MAIN AND ONE FROM EACH BRANCH. PROVIDE CERTIFICATION STATING THE NAME OF THE LAB PERFORMING THE TESTING, THE JOB NAME, THE DATE OF THE SAMPLE AND RESULTS OF THE TESTING.
   E. CONTRACTOR SHALL INFORM THE OWNER IN ADVANCE OF DISINFECTION PROCEDURES SO THAT THE OWNER MIGHT HAVE A REPRESENTATIVE WITNESS THE PROCEDURE. CERTIFIED LABORATORY INFORMATION AND BACTERIOLOGICAL ANALYSIS REPORTS SHALL BE INCLUDED IN THE OPERATIONS AND MAINTENANCE MANUALS.
   F. LEGIONELLA TESTING
      1. PROVIDE A LEGIONELLA SAMPLING PLAN AND ANALYSIS REPORT FROM A CERTIFIED LABORATORY AND/ OR RECOGNIZED LEGIONELLA EXPERT. THE SAMPLING PLAN SHALL BE AS DIRECTED BY THE CERTIFIED LABORATORY OR LEGIONELLA EXPERT AND SHALL BE BASED ON THE PROJECT SCOPE IDENTIFIED IN THE CONSTRUCTION DOCUMENTS. THE SAMPLING PLAN SHALL IDENTIFY THE NUMBER AND LOCATION OF SAMPLES TO BE COLLECTED. WATER AND SWAB SAMPLING SHALL BE USED, CONSISTENT WITH THE LABORATORY'S SUBMITTED PLAN. SAMPLING SHALL BE COLLECTED WITHIN 48 HOURS AFTER THE FLUSHING AND CHLORINE PIPING DISINFECTION PROCEDURES.
      2. LEGIONELLA TESTING SHALL BE BY CULTURE ANALYSIS. ANALYSIS SHALL INCLUDE TOTAL VIABLE LEGIONELLA COUNT AND DETERMINATION AS LEGIONELLA PNEUMOPHILIA SEROGROUP 1, LEGIONELLA PNEUMOPHILIA SEROGROUP 2 - 14, OR LEGIONELLA NON-PNEUMOPHILA SPECIES. ALL LEGIONELLA REPORTS SHALL INCLUDE INTERPRETATIONS AND RECOMMENDATIONS BASED ON SAMPLE LOCATION. INDIVIDUAL SAMPLE SITES SHALL BE ASSIGNED A RISK FOR LEGIONNAIRES DISEASE. LIMITS OF DETECTION SHALL BE <1 CFU/ ML FOR WATER SAMPLES AND 20 CFU/ SWAB FOR SWAB SAMPLES.
      3. THE TESTING LABORATORY SHALL BE CERTIFIED BY THE CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) TO BE PROFICIENT IN PERFORMING LEGIONELLA ANALYSIS BY THE ELITE (ENVIRONMENTAL LEGIONELLA ISOLATION TECHNIQUES EVALUATION) PROGRAM. THE LABORATORY SHALL BE ACCREDITED AS COMPETENT TO PERFORM MICROBIAL AND LEGIONELLA TESTING AS PROVEN BY PROFICIENCY TESTING AND THROUGH COMPLIANCE TO ISO 17025:2005 POLICIES AND REQUIREMENTS.
      4. SUBMIT SAMPLING PLAN TO OWNER AND/ OR CONSTRUCTION MANAGER FOR REVIEW PRIOR TO IMPLEMENTATION. DISINFECTION, FLUSHING, AND LEGIONELLA TESTING AND ANALYSIS SHALL BE REPEATED UNTIL LABORATORY RESULTS DETECT NO VIABLE LEGIONELLA.
      5 IF THE BUILDING OR AREA IS NOT TO BE IMMEDIATELY 'SUBSTANTIALLY COMPLETE' AND OWNER OCCUPIED, A FLUSHING PROCEDURE RECOMMENDED BY THE TESTING LABORATORY AND/OR LEGIONELLA EXPERT SHALL BE INITIATED. THESE FLUSHING PROCEDURES SHALL CONTINUE UNTIL BUILDING OR AREA IS SUBSTANTIALLY COMPLETE AND OWNER OCCUPIED. PERIODICALLY, AS DETERMINED BY THE TESTING LABORATORY AND/ OR THE LEGIONELLA EXPERT, LEGIONELLA CULTURE SAMPLES SHALL BE OBTAINED. IF POSITIVES ARE DETECTED AT A LEVEL DEEMED AT RISK, THEN THE PIPING SHALL BE RE-FLUSHED, AND DISINFECTED PER SPECIFICATION. THE FLUSHING PROCEDURES AND PERIODIC RE-TESTING SHALL BE CONSISTENT WITH THE OWNER'S WATER MANAGEMENT PLAN IF A PLAN IS AVAILABLE.
      6 THE LEGIONELLA SAMPLING REPORT SHALL INCLUDE DESCRIPTION OF THE SAMPLING PLAN USED, CERTIFICATION STATING THE NAME OF THE LAB PERFORMING THE TESTING, THE JOB NAME, THE DATES OF THE SAMPLES AND RESULTS OF THE TESTING.
      7 ISSUE A PROJECT OR AREA DOMESTIC WATER SYSTEM COMPLETION CERTIFICATE TO THE OWNER AT THE TIME OF SUBSTANTIALLY COMPLETE AND OWNER OCCUPANCY. THE COMPLETION CERTIFICATE SHALL NOT INCLUDE OBLIGATIONS TO BE PERFORMED LATER, SUCH AS WARRANTY CORRECTIVE WORK THAT MAY BE REQUIRED.
10. ALL PIPING, FITTINGS, VALVES, SOLDERS, FLUXES, APPURTENANCES AND OTHER EQUIPMENT IN WHICH WETTED PARTS ARE IN CONTACT WITH WATER, INSTALLED IN PUBLIC DRINKING WATER SYSTEMS AND PLUMBING SYSTEMS PROVIDING POTABLE AND/ OR DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE "LEAD FREE" REQUIREMENTS OF NSF/ ANSI 372.
11. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT'S OR ENGINEER'S JUDGMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
12. PROTECT MATERIALS AND EQUIPMENT AFTER DELIVERY TO THE JOB SITE. RESPECT OTHER TRADES AS RELATED TO PROTECTING THEIR WORK AND TO AVOID CONSTRUCTION INTERFERENCES. CALL ATTENTION TO PROBLEMS RELATING TO SPACE REQUIREMENTS SO EARLY RESOLUTION MAY BE OBTAINED. RESPECT OWNER'S PROPERTY AT ALL TIMES. TEMPORARILY REMOVE, STORE, AND RE-INSTALL CEILINGS WHEN REQUIRED TO PERFORM WORK.
13. CUT AND PATCH TO INSTALL WORK OR PAY OTHERS TO PERFORM SUCH WORK. CONCRETE SHALL BE CORE DRILLED. WHEN CUTTING OR CORE-DRILLING FLOOR VERIFY LOCATION OF EXISTING ELECTRICAL, PLUMBING OR STEEL REINFORCEMENT. USE X-RAY METHOD TO VERIFY EXISTENCE OF OBSTRUCTIONS. EITHER RE-ROUTE EXISTING SYSTEM, BRACE FLOOR OR ALTER LOCATION OF NEW WORK TO MAINTAIN EXISTING SYSTEM. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT'S OR ENGINEER'S JUDGMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
14. IN ALTERATION AND REMODELING WORK, PERFORM ALL REMOVAL AND RELOCATION WORK KINDRED TO THE PLUMBING WORK. LEAVE ALL EXISTING SYSTEMS CONTINUOUS AND FUNCTIONAL. REMOVE EXTRANEOUS PIPING AND EQUIPMENT. NO REMOVED MATERIAL SHALL BE RE-USED UNLESS EXPRESSLY SHOWN. WHERE NECESSARY TO DISRUPT SERVICES FOR SHORT PERIODS OF TIME, COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.
15. PROVIDE CEILING AND WALL ACCESS PANELS WHERE INDICATED ON THE DRAWINGS, OR WHERE REQUIRED FOR ACCESS TO CONCEALED VALVES, TRAPS, DEVICES OR SERVICEABLE EQUIPMENT. ACCESS PANELS SHALL BE MINIMUM 18" X 18", OR LARGER IF REQUIRED, AND SHALL BE COMPATIBLE WITH THE MATERIALS IN WHICH THEY ARE INSTALLED. ACCESS PANELS IN FIRE RATED BUILDING ELEMENTS SHALL BE LABELED IN COMPLIANCE WITH THE RATING OF THE BUILDING ELEMENT.
16. EACH CONTRACTOR SHALL MAINTAIN A SEPARATE SET OF AS-BUILT PRINTS OF THE CONTRACT DOCUMENTS AND SHALL SHOW ANY SIGNIFICANT CHANGES OR VARIATIONS WHICH ARE MADE DURING CONSTRUCTION. UPON COMPLETION OF THE WORK, THESE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT.
17. PAINT FERROUS METAL WHICH IS NOT FACTORY OR SHOP PAINTED OR GALVANIZED AND WHICH REMAINS EXPOSED TO VIEW IN FINISHED AREAS OF THE BUILDING. FERROUS METAL INSTALLED OUTSIDE THE BUILDING WHICH IS NOT FACTORY OR SHOP PAINTED OR GALVANIZED SHALL BE GIVEN A PRIME COAT OF PAINT.
18. MARK ALL PIPING SYSTEMS AND TAG ALL VALVES. ANY EXISTING PIPING ENCOUNTERED SHALL ALSO BE MARKED. VALVE TAGS SHALL BE NON-FERROUS METAL, 1" DIAMETER AND ATTACHED BY COPPER LOOP HOOKS. PIPE MARKERS SHALL BE 1" HIGH LETTERS WITH COLOR BAND AND ARROW. MARKERS SHALL BE AT EACH VALVE AND AT LEAST ONE IN EACH ROOM, BUT NO MORE THAN 20 FT. INTERVALS. COLOR BAND SHALL MATCH EXISTING OR AS DICTATED BY OWNER. TURN OVER VALVE TAG SCHEDULE TO ARCHITECT.
19. FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS OF PIPING THRU FIRE RATED FLOORS, FIRE RATED FLOOR-CEILING AND ROOF CEILING ASSEMBLIES, FIRE AND SMOKE RATED WALLS AND PARTITIONS AND FIRE AND SMOKE RATED SHAFT WALLS AND PARTITIONS. IN ADDITION, FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS THRU 0-HOUR RATED FLOORS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED BUILDING ELEMENTS AND PLUMBING/ FIRE SUPPRESSION DRAWINGS FOR PIPE LAYOUTS.
20. ALL PIPING SHALL BE INSTALLED PER ACCEPTED INDUSTRY STANDARDS AND/ OR PER MANUFACTURER'S RECOMMENDATIONS. ALL INTERIOR ABOVE GRADE PIPING SHALL BE SUPPORTED BY ATTACHMENT TO BUILDING STRUCTURAL ELEMENTS. DO NOT SUPPORT PIPING FROM NON-STRUCTURAL BUILDING ELEMENTS, DUCTWORK, OTHER PIPING, ETC. HANGER ROD SIZES AND HANGER/SUPPORT SPACING SHALL BE PER THE FOLLOWING SCHEDULES. HANGERS FOR PLUMBING PIPING SHALL BE LIGHT/HEAVY DUTY CLEVIS TYPE, COPPER CLAD OR PLASTIC COATED FOR UNINSULATED COPPER PIPING, WITH LOCK NUT AT EACH HANGER AND AT HANGER ROD ATTACHMENT TO STRUCTURE. FIRE SUPPRESSION HANGER AND SUPPORT REQUIREMENTS SHALL BE PER FM GLOBAL AND NFPA STANDARDS.

PIPE SIZE	MINIMUM HANGER ROD DIAMETER
2" AND SMALLER	0.375"
2.5" TO 3"	0.5"

PIPE MATERIAL/ SIZE	MAXIMUM HANGER/ SUPPORT SPACING
VERTICAL:	
STEEL	BASE AND 15 FT.
COPPER	BASE AND 10 FT.
CAST IRON	BASE AND EACH FLOOR LEVEL
HORIZONTAL:	
STEEL / <=1.5"	7 FT.
STEEL / 2" TO 6"	10 FT.
COPPER / <=1.25"	6 FT.
CAST IRON	10 FT. AND EACH FITTING/ JOINT

21. INSULATE ALL NEW ABOVE GROUND DOMESTIC WATER WITH FIBERGLASS/ TUBULAR CLOSED CELL PIPE INSULATION IN COMPLIANCE WITH ASHRAE 90.1. FIBERGLASS INSULATION SHALL BE FACTORY MOLDED TUBULAR FIBERGLASS WITH ALL SERVICE JACKET, INTEGRAL VAPOR BARRIER AND FACTORY ADHESIVE OVERLAPPING JOINTS. PROVIDE FACTORY MOLDED PVC COVERS AND INSULATION FOR FITTINGS, VALVES AND DEVICES. CLOSED CELL INSULATION SHALL BE TUBULAR ELASTOMERIC TYPE WITH PRESSURE-SENSITIVE ADHESIVE TAPE CLOSURE SYSTEM AND/ OR VAPOR SEALING ADHESIVE. ON COLD SERVICE PIPING, SEAL ALL JOINTS AND TERMINATIONS TO MAINTAIN THE VAPOR BARRIER. COMPOSITE INSULATING SYSTEMS SHALL NOT EXCEED A MAXIMUM FLAME SPREAD OF 25 AND SMOKE DEVELOPMENT OF 50, AS ESTABLISHED BY ASTM E84 TEST METHODS. FIBERGLASS INSULATION MANUFACTURERS - OWENS-CORNING, JOHNS MANVILLE, MANSON OR KNAUFF. TUBULAR CLOSED CELL INSULATION SHALL BE MANUFACTURED BY ARMACELL (ARMAFLEX AP), K-FLEX USA OR AEROFLEX USA. PATCH INSULATION AT POINT OF CONNECTION BETWEEN NEW AND EXISTING. INSULATION THICKNESS SHALL COMPLY WITH THE FOLLOWING SCHEDULE:

PIPE SYSTEM	1.25" AND SMALLER	1.5" TO 6"
DOM. COLD	0.5"	1.0"
DOM. HOT WATER	1.0"	1.5"
DOM. HOT RETURN	1.0"	1.5"
PVC SANITARY *	0.5"	0.5"

* PROVIDE INSULATION ON ALL PVC SANITARY PIPING ABOVE PARTIENT ROOMS, EXAM ROOMS, OPERATING ROOMS AND ANY OTHER SOUND SENSITIVE AREAS. COORDINATE EXACT LOCATIONS WITH OWNER.

22. FIRE SUPPRESSION PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A-53, TYPE E OR F OR ASTM A135. FITTING AND JOINTS SHALL BE MALLEABLE OR CAST IRON SCREWED TYPE FOR PIPING 2" AND SMALLER, AND MECHANICALLY ROLLED GROOVE TYPE FOR SIZES 2" AND LARGER. FITTINGS FOR MECHANICALLY ROLLED GROOVE SYSTEMS SHALL BE MALLEABLE OR DUCTILE IRON BODY WITH NITRILE OR EPDM GASKETS, EQUAL TO VICTAULIC "FIRELOCK" STYLE 005 AND 009. PIPING FOR DRY PIPE SYSTEMS SHALL BE THE SAME AS SPECIFIED ABOVE, EXCEPT WITH GALVANIZED PIPE AND FITTINGS AND FLUSH SEAL TYPE GASKET FOR ROLLED GROOVE JOINTS.

    ALL MATERIALS AND DEVICES, AS APPROPRIATE, SHALL BE UL LISTED AND/ OR FM GLOBAL APPROVED, AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. THE FIRE SUPPRESSION SYSTEM(S) SHALL CONFORM TO NFPA STANDARDS, THE GOVERNING BUILDING CODE, AND OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S INSURER.
23. INTERIOR DOMESTIC WATER PIPING SHALL BE TYPE "L" SEAMLESS HARD DRAWN COPPER TUBING ASTM B88 WITH WROUGHT COPPER OR CAST BRONZE FITTINGS ASME B16.22 AND SOLDERED JOINTS OR PRESS FITTINGS CONFORMING TO ASME B16.51 AND ASME B16.22, EPDM O-RING SEAL. O-RING SEAL AND/OR SEAL CUP DESIGN MUST NOT ALLOW THE FITTING JOINTS TO PASS A PRESSURE TEST PRIOR TO BEING PRESSED. COMPRESSION JOINTS SHALL BE 200 PSI, 250 DEGREES F. RATED USING FITTING MANUFACTURER APPROVED ELECTRO-HYDRAULIC CRIMPING TOOL. COMPRESSION CRIMP SHALL BE APPLIED ON UPSTREAM AND DOWNSTREAM SIDE OF EPDM SEAL BEAD. SOLDER SHALL BE LEAD-FREE TIN ALLOY, 95-5 TIN-ANTIMONY OR SILVER BEARING TIN. PIPE NIPPLES EXTENDING OUT OF THE WALL TO SERVE FIXTURES SHALL BE CHROME PLATED BRASS WITH SCREWED ENDS. SHUTOFF VALVES 2" AND SMALLER SHALL BE TWO-PIECE, BRONZE BODY, BALL TYPE, 150 W.S.P. ASTM B584, EQUAL TO NIBCO T-585-66-LF OR PC-585-66-LF WITH PRESS FIT CONNECTIONS. PROVIDE FULL OPEN VALVES AT LOCATIONS REQUIRED BY THE GOVERNING PLUMBING CODE.
24. INTERIOR ABOVE GRADE SOIL, WASTE AND VENT PIPING SHALL BE CENTRIFUGALLY CAST COATED CAST IRON WITH HUBLESS ENDS, ASTM A-888 AND CISPI 301. FITTINGS SHALL BE DRAINAGE TYPE. JOINTS SHALL CONSIST OF A NEOPRENE GASKET, ASTM C564, STAINLESS STEEL SHIELD AND STAINLESS STEEL BAND. PROVIDE CLEANOUTS WHERE SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY THE GOVERNING PLUMBING CODE.
25. PROVIDE PLUMBING FIXTURES, AS INDICATED ON THE DRAWINGS, INSTALLED IN PLACE COMPLETE WITH SUPPORTS, CARRIERS AND SUPPLY AND WASTE TRIM. SUPPLIES TO EACH FIXTURE SHALL BE INDIVIDUALLY VALVED. VALVES, SUPPLIES AND ESCUTCHEONS SHALL BE FURNISHED WITH FIXTURE SUPPLY TRIM. ALL WASTE AND SUPPLY TRIM SHALL BE CHROME PLATED BRASS. FIXTURES SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEAL JOINTS AROUND EACH FIXTURE AT THE WALL, FLOOR AND ANY ADJACENT CONSTRUCTION. JOINT SEALANT SHALL BE ONE PART, MILDEW RESISTANT SILICONE, ASTM C-920, TYPE S, GRADE NS, CLASS 25 WITH FUNGICIDE, EQUAL TO PECORA 898. AFTER INSTALLATION OF THE FIXTURES IS COMPLETED, ALL CONNECTING PIPES SHALL BE FLUSHED OUT THROUGH THE FIXTURES TO ELIMINATE SCALE, AND ALL VALVES SHALL BE PROPERLY ADJUSTED AND FIXTURES LEFT COMPLETE AND READY FOR USE. ALL FIXTURES SHALL BE CLEANED, IMMEDIATELY PRIOR TO ACCEPTANCE BY THE OWNER.

    ALL PLUMBING FIXTURES, EQUIPMENT AND TRIM SHALL MEET THE DIMENSIONAL AND PERFORMANCE REQUIREMENTS OF ANSI, ARI, ASME, AND ASSE AND/ OR CSA STANDARDS LISTED IN THE CURRENT JURISDICTIONAL PLUMBING CODE. ALL FAUCETS AND FITTINGS SUPPLYING DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF NSF/ ANSI 372.

PLUMBING FIXTURES

CATALOG NUMBERS INDICATED ARE THOSE OF THE FIRST NAMED MANUFACTURER IN EACH CATEGORY LISTED BELOW - ADDITIONAL MANUFACTURERS ARE LISTED IN PARENTHESIS

A. AMERICAN STD. (KOHLER, TOTO, ZURN)
B. SLOAN (DELANY, ZURN)
C. BEMIS (BENEKE, KOHLER, AMERICAN STD.)
D. SMITH (WADE, ZURN, JOSAM, WATTS)
E. CHICAGO (TOTO, T&S BRASS, ZURN)
F. GUY GRAY (OATEY, PLASTIC ODDITIES)
G. McGUIRE (EBC, DEARBORN BRASS, ZURN)
H. FIAT (STERN WILLIAMS, CREATIVE IND., MUSTEE, ZURN)
J. ELKAY (JUST WITH LUG AND SCREW)
K. HALSEY TAYLOR (ACORN, ELKAY, HAWS, OASIS)
L. LEONARD (POWERS, SYMMONS)
M. AQUARIUS (AQUA-BATH, KOHLER, COMFORT DESIGNS)
N. WATTS
O. GUARDIAN (BRADLEY, SPEAKMAN, HAWS)
P. BRASSCRAFT
Q. TRUEBRO (ZURN, PLUMBEREX)

SCHEDULE ABBREVIATIONS:

ADA	HANDICAP ACCESSIBLE	QD	QUICK DISCONNECT
BO	BACK OUTLET	SB	SINGLE BOWL
BPW	BED PAN WASHER	SST	STAINLESS STEEL
DB	DOUBLE BOWL	UCM	UNDER COUNTER MOUNT
FS	FLOOR SET	VB	VACUUM BREAKER
FT	FLUSH TANK	VR	VANDAL RESISTANT
FV	FLUSH VALVE	WB	WRIST BLADE
GN	GOOSENECK	WH	WALL HUNG
HS	HAND SHOWER		

GENERAL NOTE:
1. SUPPLY PIPE SIZES IN THIS SCHEDULE ARE FIXTURE OR SUPPLY STOP CONNECTION SIZES. DOMESTIC COLD AND HOT WATER SUPPLY PIPE SIZES SERVING FIXTURES SHALL BE, AT A MINIMUM, THE SIZES LISTED UNLESS NOTED OTHERWISE OR LABELED ON THE FLOOR PLANS. DOMESTIC COLD WATER SUPPLY PIPE SIZES SERVING FLUSH VALVES SHALL BE AT MINIMUM ONE PIPE SIZE LARGER THAN THE INDICATED CONNECTION SIZE, OR SIZED AS SHOWN ON THE FLOOR PLANS. PIPING AT THE FLUSH VALVE CONNECTION OF A SIZE EQUAL TO THE CONNECTION SIZE SHALL BE LIMITED TO A MAXIMUM 2 FEET IN DEVELOPED LENGTH AND INCLUDE A MAXIMUM OF ONE 90 DEGREE ELBOW FITTING. FULL SIZE MANIFOLDS, WHERE INDICATED ON THE FLOOR PLANS, SHALL BE PROVIDED FULL SIZE FOR THE LENGTH OF THE PIPING CHASE AND TERMINATED WITH A FULL SIZE CAP.

NOTES:
1. COORDINATE MOUNTING HEIGHT W/CTOP & BACKSPLASH.
2. COORDINATE DRAIN OPENING & FAUCET DRILLING WITH G.C.
3. PROVIDE FIXTURE CARRIER.

MARK	DESCRIPTION	MOUNTING HEIGHT	FLOW GPM	FLOW GPF	CONTROL MANUAL	CONTROL METERING	CONTROL SENSOR ELECTRIC	CONTROL SENSOR BATTERY	SUPPLY COLD WATER	SUPPLY HOT WATER	SUPPLY TEMPERED	SUPPLY NAT. GAS	WASTE & VENT FIX. OUTLET	WASTE & VENT TRAP	WASTE & VENT FIX. DRAIN	WASTE & VENT WASTE-MIN.	WASTE & VENT VENT-MIN.	WASTE & VENT INDIRECT	WASTE & VENT AIR GAP	WASTE & VENT AIR BREAK	FIXTURE MFR.	FIXTURE CAT. NO.	SUPPLY TRIM MFR.	SUPPLY TRIM CAT. NO.	SUPPLY / STOP MFR.	SUPPLY / STOP CAT. NO.	WASTE TRIM MFR.	WASTE TRIM CAT. NO.	TRAP / FIX. DR. MFR.	TRAP / FIX. DR. CAT. NO.	MISC. MFR.	MISC. CAT. NO.	SEE NOTE
A1	WATER CLOSET / WH / ADA / FV	16"		1.6	●				1"				4"	4"	4"	4"	2"				A	3351.101	B	111-1.6	B	UNIT	A	UNIT	A	INTEGRAL	C	95SSCT	3
A2	WATER CLOSET / FS / FV / CHILD HEIGHT	10"		1.6	●				1"				4"	4"	4"	4"	2"				A	2282.001	B	111-1.6	B	UNIT	A	UNIT	A	INTEGRAL	C	95SSCT	3
B1	LAVATORY / INTEGRAL / GN / WB / ADA	C'TOP	0.5"				●		0.5"	0.5"			1.5"	1.5"	1.5"	1.5"	1.5"				-	BY OTHERS	B	ETF-80-4-P	P	KTCR19XC	G	155AECO	G	8912	N	LFUSG-BM2	2
C1	URINAL / WH / FV / ADA	17"		0.5	●				0.75 "				2"	2"	2"	2"	1.5"				A	6590.001	B	186-0.5	B	UNIT	A	UNIT	A	INTEGRAL			3
F1	SINK / SST / GN / SB / WB / ADA	C'TOP	1.5		●				0.5"	0.5"			1.5"	1.5"	1.5"	1.5"	1.5"				J	LRAD1517	E	895-317GN2 F CXKABCP	G	LFBV2165	G	152	G	8912	Q	LAVGUARD2	1
F2	SINK / SST / GN / SB / WB / ADA	C'TOP	1.5		●				0.5"	0.5"			1.5"	1.5"	1.5"	1.5"	1.5"				J	LRAD2219	E	895-317GN2 F CXKABCP	G	LFBV2165	G	152	G	8912	Q	LAVGUARD2	1

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: MVC
Checked By: DPB
Client Number:
Project Number: 6981-12

STATE OF OHIO — JEREMY M. WILLIAMS E-81232 — 7-16-2025 — REGISTERED PROFESSIONAL ENGINEER — 2025-05017

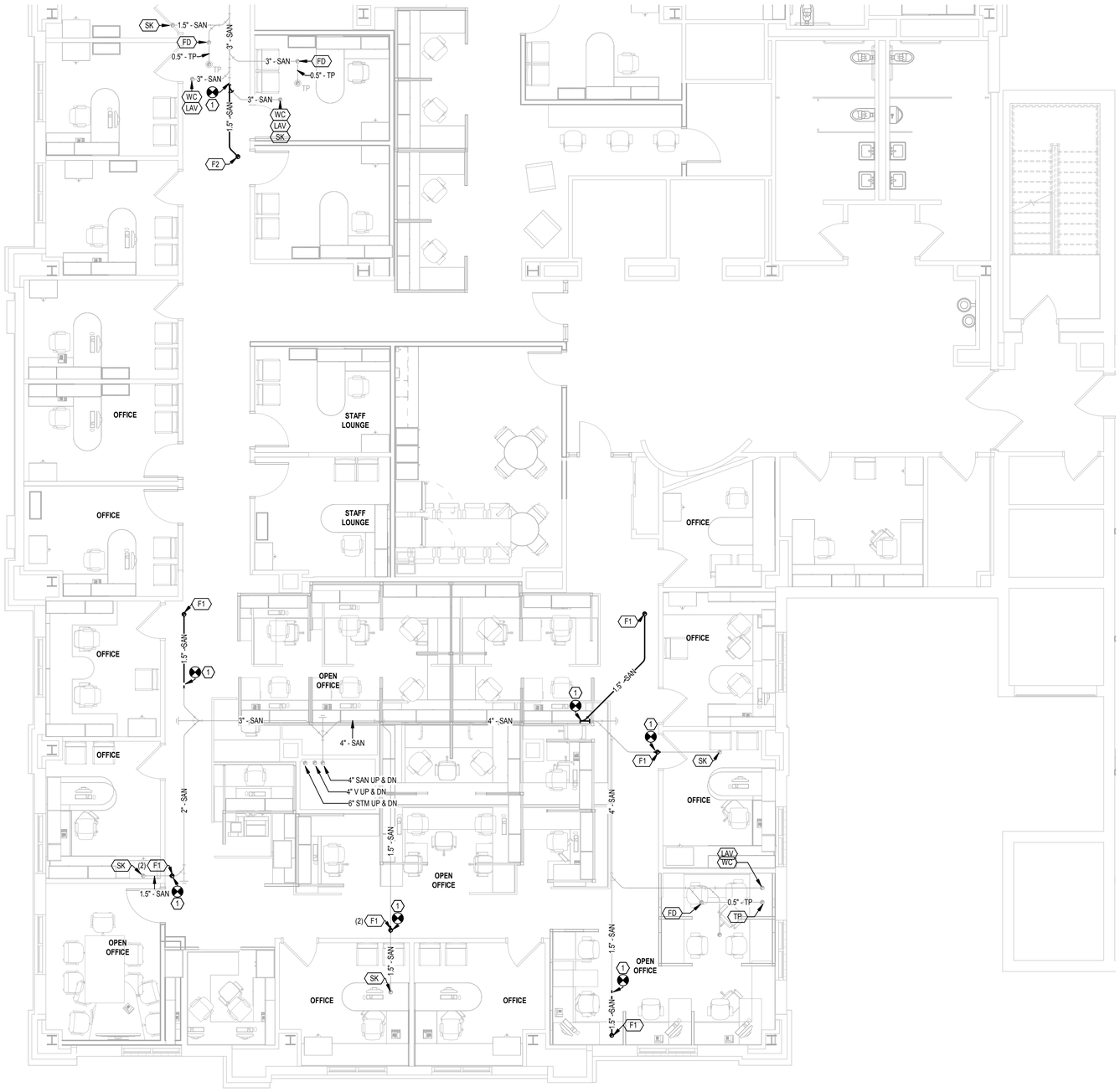
DRAWING TITLE: SPECIFICATIONS & SCHEDULE

SHEET NO. P002

7/16/2025 8:50:15 AM

NOTES - NEW WORK

1 INSPECT AND FIELD VERIFY THE CONDITION OF EXISTING PLUMBING PIPING, FITTINGS, ACCESSORIES, AND SUPPORTS. INSPECTION/FIELD VERIFICATION SHALL CONSIDER THE FACTORS OF CORROSION AND/OR STRUCTURAL FAILURE, SAFETY, AND HYDRAULIC PERFORMANCE AND FINDINGS SHALL BE REPORTED IN WRITING TO GC/OWNER PRIOR TO STARTING NEW WORK.PROVIDE UNIT PRICING FOR REPLACEMENT OF PIPE AND FITTINGS.



1 **PLUMBING LEVEL 3 - NEW WORK**
SCALE: 3/16" = 1'-0"

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By MVC
Checked By DPB
Client Number
Project Number 6981-12

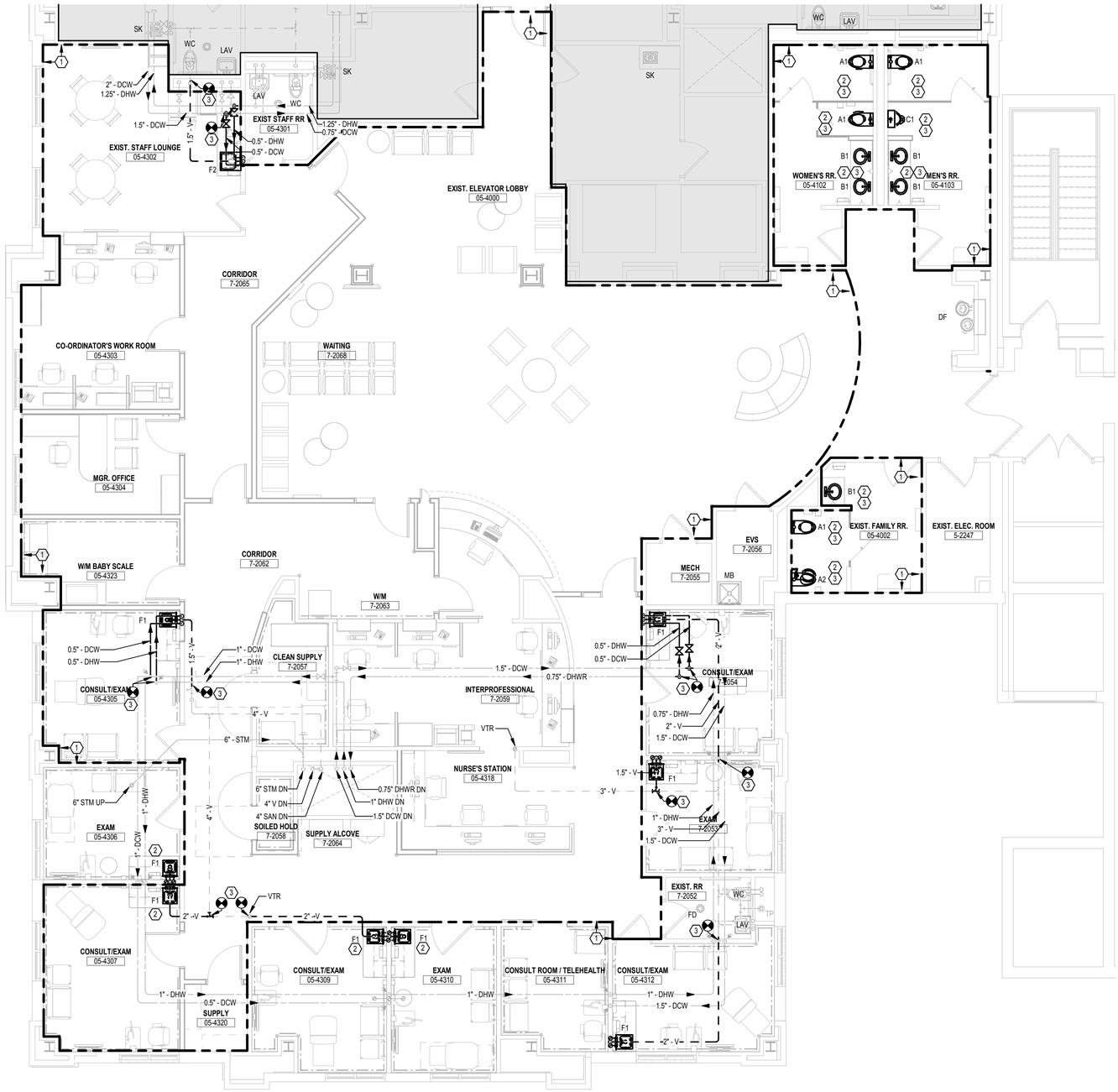
STATE OF OHIO
JEREMY M. WILLIAMS
E-81232
7-16-2025
REGISTERED
PROFESSIONAL ENGINEER
2025-0607

DRAWING TITLE
PLUMBING LEVEL 3 - NEW WORK

SHEET NO.
P101

7/16/2025 8:50:17 AM

ISSUED FOR CONSTRUCTION



1 PLUMBING LEVEL 4 - NEW WORK

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

NOTES - NEW WORK

1. LIMITS OF RENOVATED AREA REQUIRING EXISTING SPRINKLER SYSTEM MODIFICATIONS. MODIFICATIONS INCLUDE REPLACING ALL SPRINKLERS, ALTERING MAIN/ BRANCH PIPING TO CONFORM TO NEW ARCHITECTURAL LAYOUT WHERE NECESSARY. ADDITIONAL MODIFICATIONS MAY BE REQUIRED TO ACCOMMODATE TO NEW MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY SYSTEMS.EXISTING PIPING TO BE RE-USED AS MUCH AS POSSIBLE.
2. PROVIDE NEW FIXTURE AT THE SAME / APPROXIMATE LOCATION AS THE EXISTING FIXTURE. MODIFY PIPING TO CONNECT TO EXISTING DCW, DHW, SANITARY AND VENT PIPING AS REQUIRED TO ACCOMMODATE NEW FIXTURE. (MODIFICATIONS INCLUDE BUT ARE NOT LIMITED TO, SANITARY DRAIN, VENT, DCW, DHW PIPING.
3. INSPECT AND FIELD VERIFY THE CONDITION OF EXISTING PLUMBING PIPING, FITTINGS, ACCESSORIES, AND SUPPORTS. INSPECTION/FIELD VERIFICATION SHALL CONSIDER THE FACTORS OF CORROSION AND/OR STRUCTURAL FAILURE, SAFETY, AND HYDRAULIC PERFORMANCE AND FINDINGS SHALL BE REPORTED IN WRITING TO GC/OWNER PRIOR TO STARTING NEW WORK.PROVIDE UNIT PRICING FOR REPLACEMENT OF PIPE AND FITTINGS.

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By	MVC
Checked By	DPB
Client Number	
Project Number	6981-12

STATE OF OHIO — JEREMY M. WILLIAMS — E-81232 — 7-16-2025 — REGISTERED PROFESSIONAL ENGINEER — 2025-0907

DRAWING TITLE

PLUMBING LEVEL 4 - NEW WORK

SHEET NO.

P102

7/16/2025 8:50:21 AM

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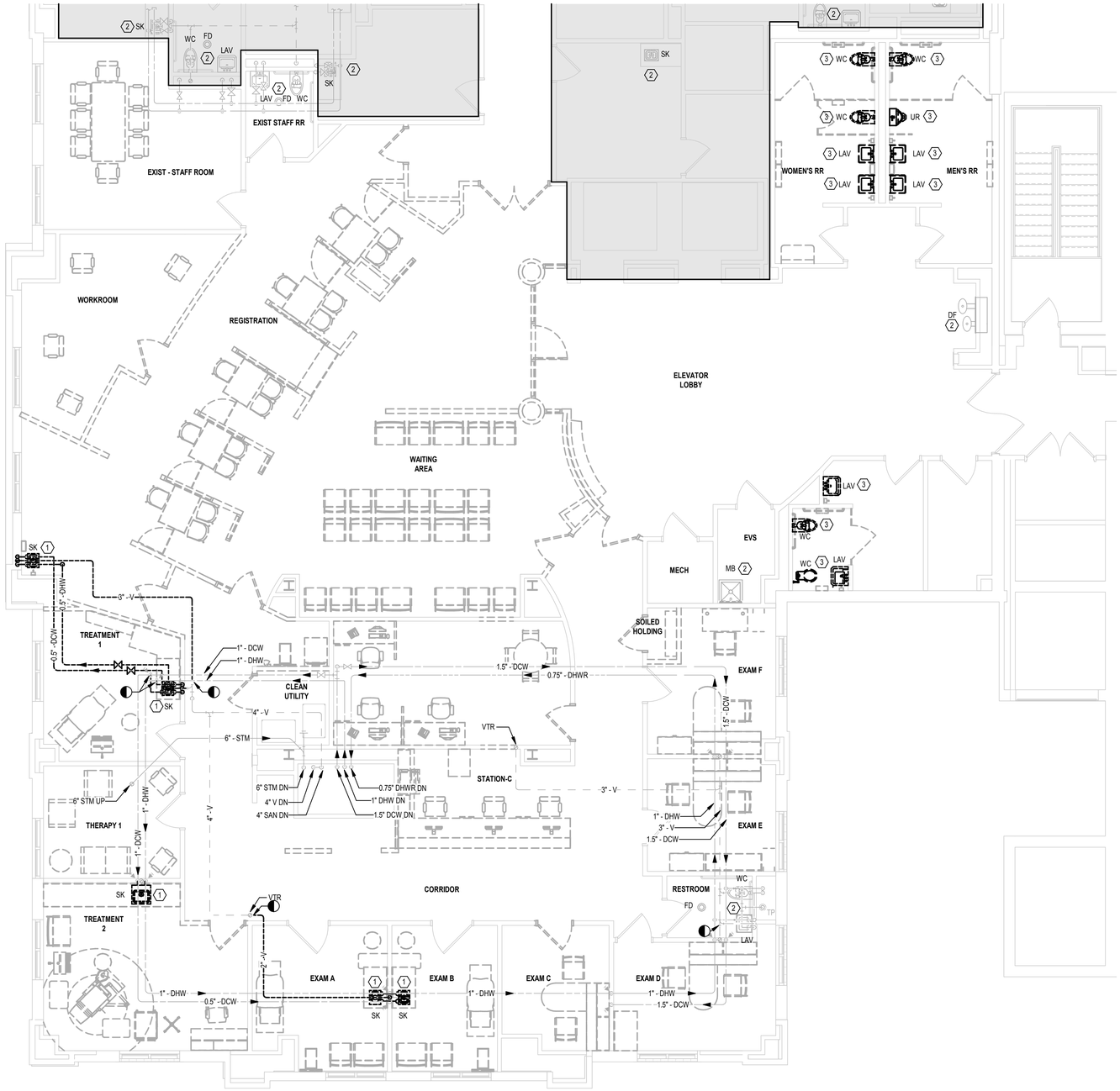

1 PLUMBING LEVEL 4 - DEMO

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

NOTES - DEMO

1 REMOVE EXISTING FIXTURE OR ITEM OF EQUIPMENT (TYPE AS INDICATED) AND ALL EXTRANEOUS DOMESTIC WATER PIPING BACK TO POINT OF NEW CONNECTION OR WITH-IN TWO (2) PIPE DIAMETERS OF ACTIVE MAIN AND CAP. REMOVE ALL EXTRANEOUS SANITARY DRAIN AND VENT PIPING BACK TO POINT OF NEW CONNECTION OR BACK TO ACTIVE MAIN AND CAP. CAP PIPING IN WALLS WHERE WALLS ARE TO REMAIN, OR ABOVE CEILING OR BELOW FLOOR SLAB WHERE WALLS ARE TO BE REMOVED. NO PIPE STUBS SHALL BE VISIBLE IN FINISHED AREAS.

2 EXISTING AREA, PIPING, OR ITEM OF EQUIPMENT (TYPE AS INDICATED) TO REMAIN.

3 REMOVE EXISTING FIXTURE OR ITEM OF EQUIPMENT (TYPE AS INDICATED) AND REPLACE WITH NEW FIXTURE IN THE SAME OR APPROXIMATE LOCATION. REFER TO NEW WORK PLANS. MAINTAIN EXISTING DCW, DHW, SANITARY, AND VENT PIPING FOR NEW WORK RECONNECTION.

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: MVC
Checked By: DPB
Client Number:
Project Number: 6981-12

STATE OF OHIO
JEREMY M. WILLIAMS
E-81232
7-16-2025
REGISTERED PROFESSIONAL ENGINEER
2025-0607

DRAWING TITLE
PLUMBING LEVEL 4 - REMOVALS

SHEET NO.
PD101

7/16/2025 8:50:24 AM

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DUCTWORK SYMBOLS

RECTANGULAR	ROUND / OVAL	
	CONICAL FITTING	ROUND BRANCH DUCTWORK
ACOUSTIC FITTING	ACOUSTIC FITTING	RECTANGULAR BRANCH DUCTWORK
		SQUARE TEE WITH TURNING VANES NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND / OVAL DUCTWORK SHALL BE PROVIDED WITH TURNING VANES. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
		RADIUS'D TEE
		RADIUS'D BRANCH
		UNLESS NOTED OTHERWISE ON DRAWINGS, 15° MAX FOR DIVERGING, 30° MAX FOR CONVERGING TRANSITION
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO REMOVED
		RETURN AIR, RELIEF AIR, OR TRANSFER AIR DUCTWORK. (UP AND DOWN) RADIUSED OR SQUARE WITH TURNING VANES.
		SUPPLY AIR OR OUTDOOR AIR DUCTWORK. (UP AND DOWN) RADIUSED OR SQUARE WITH TURNING VANES.
		EXHAUST AIR DUCTWORK. (UP AND DOWN) RADIUSED OR SQUARE WITH TURNING VANES.
		RECTANGULAR AND ROUND / OVAL DUCTWORK RISE / DROP WITH 90° RADIUSED OR SQUARE ELBOWS AND TURNING VANES.
		RADIUS ELBOW
		90° SQUARE ELBOW (WITH TURNING VANES) NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND DUCTWORK SHALL BE PROVIDED WITH TURNING VANES.
		SQUARE THROAT / RADIUS HEEL FITTINGS NOT ACCEPTABLE
AD	AD	ACCESS DOOR OR PANEL
R	R	DUCTWORK RISE IN DIRECTION OF AIR FLOW
D	D	DUCTWORK DROP IN DIRECTION OF AIR FLOW
		FLEXIBLE DUCTWORK
		DUCTWORK WITH ACOUSTICAL LINER. LISTED DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
		FLEXIBLE CONNECTION
		DUCTWORK CONSTRUCTED OF SPECIAL MATERIAL AS NOTED
		DIRECTION OF PITCH
26x20		RECTANGULAR DUCTWORK DIMENSIONS (W x H)
26ø		ROUND DUCTWORK DIMENSIONS (DIA)
26x20 OV		OVAL DUCTWORK DIMENSIONS (W x H)

DUCTWORK DEVICE SYMBOLS

A10 10ø 300	CEILING MOUNTED SUPPLY AIR DEVICE. ALL AIR DEVICES DISCHARGE 4-WAY UNLESS NOTED OTHERWISE ON PLANS WITH FLOW ARROWS. A10 = DESIGNATION (REFER TO FLOOR PLANS AND AIR DEVICE SCHEDULE FOR VARIOUS DESIGNATIONS). 10ø = NECK SIZE (IN INCHES). 300 = REQUIRED CFM.
S10-48"L 8ø 300	CEILING OR WALL MOUNTED LINEAR SLOT AIR DEVICE. S10 = DESIGNATION (REFER TO FLOOR PLANS AND AIR DEVICE SCHEDULE FOR VARIOUS DESIGNATIONS). 48"L = DEVICE LENGTH. 8ø = NECK SIZE (IN INCHES). 300 = REQUIRED CFM.
T10 20x12 300 BOG: 9'-0"	CEILING, WALL, OR DUCTWORK MOUNTED SUPPLY, RETURN, OR EXHAUST AIR DEVICE. T10 = DESIGNATION (REFER TO FLOOR PLANS AND AIR DEVICE SCHEDULE FOR VARIOUS DESIGNATIONS). 20x12 = DEVICE SIZE (IN INCHES). 300 = REQUIRED CFM. FOR NON-CEILING MOUNTED DEVICES, 9'-0" = MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF GRILLE.
	MANUAL BALANCING DAMPER WITH LOCKING DEVICE
XXX	BDD = BACK DRAFT DAMPER CBD = COUNTER-BALANCED BACK DRAFT DAMPER
A-D	FIRE DAMPER A = TYPE (REFER TO FLOOR PLANS FOR VARIOUS TYPES) D OR S = DYNAMIC OR STATIC
XX	SD = SMOKE DAMPER FS = COMBINATION FIRE - SMOKE DAMPER MDD = MOTORIZED DAMPER AFMS = AIR FLOW MEASURING STATION
SD	DUCT MOUNTED SMOKE DETECTOR. COORDINATE LOCATION.
H	HUMIDITY SENSOR - DUCT MOUNTED
SP	STATIC PRESSURE SENSOR - DUCT MOUNTED
C	CARBON DIOXIDE SENSOR - DUCT MOUNTED
S	TEMPERATURE SENSOR - DUCT MOUNTED

VALVES AND FITTINGS

	CHECK VALVE
	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	COMBINATION SHUTOFF AND BALANCING VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	CONCENTRIC PIPE REDUCER
FOT FOB	ECCENTRIC PIPE REDUCER
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE OR THERMOMETER
	UNION
	CLEANOUT
	STRAINER
	STRAINER WITH A BLOW DOWN VALVE AND HOSE CONNECTION
	DRAIN VALVE WITH HOSE END CONNECTION
	AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN AND OUT
	EXPANSION JOINT
A	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	PRESSURE REDUCING VALVE
M	MODULATING 2 PORT AUTOMATIC CONTROL VALVE
M	2 PORT AUTOMATIC CONTROL VALVE, 2-POSITION UNLESS SPECIFIED OTHERWISE
M	MODULATING 3 PORT AUTOMATIC CONTROL VALVE
M	3 PORT AUTOMATIC CONTROL VALVE, 2-POSITION UNLESS SPECIFIED OTHERWISE
M	AUTOMATIC PRESSURE INDEPENDENT CONTROL VALVE
	QUICK OPENING MANUAL VALVE
	SAFETY RELIEF VALVE. FOR HYDRONIC SYSTEMS PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE. FOR STEAM SYSTEMS PIPE DISCHARGE TO OUTDOORS.
	VACUUM BREAKER
N	NEEDLE VALVE
	PRESSURE AND TEMPERATURE TEST PLUG
V	VACUUM GAUGE WITH STOP
	END CAP
	GLOBE VALVE
VB	SHUTOFF VALVE AND BOX
	SHUTOFF VALVE ON RISER
S	SOLENOID VALVE
M	WATER METER
F	FLOW METER
BM	BI-METALIC STEAM TRAP AND DRIP ASSEMBLY
TD	THERMODYNAMIC STEAM TRAP AND DRIP ASSEMBLY
IB	INVERTED BUCKET STEAM TRAP AND DRIP ASSEMBLY
FT	FLOAT AND THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY
TS	THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY
	PRESSURE GAUGE WITH COCK AND SIPHON LOOP

MISC SYMBOLS

C	CARBON DIOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
CO	CARBON MONOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
DP	DIFFERENTIAL PRESSURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
H	HUMIDITY SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
S	TEMPERATURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
S	TEMPERATURE SENSOR MOUNTED IN CEILING PLENUM.
SP	STATIC PRESSURE SENSOR.
T	SPACE TEMPERATURE SENSOR / THERMOSTAT. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	EMERGENCY SHUTOFF STATION. 46" MOUNTING HEIGHT UNLESS NOTED OTHERWISE.

GENERAL FLOOR PLAN NOTES

3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
H1 OR H1	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
2	RISER OR STACK NUMBER
B / H2	DETAIL: B = DETAIL DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
1 / H2	SECTION: 1 = SECTION DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
A1	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)
TOE: 3' - 0" BOE: 0' - 6"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
10" ELEV: 8' - 0" | 10" ELEV: 8' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
20x20 TOD: 8' - 10" 20x20 BOD: 7' - 2"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF DUCTWORK, UNLESS NOTED OTHERWISE
UC-X	DOOR UNDERCUT. X = HEIGHT OF UNDERCUT IN INCHES; 0.75 INCH UNDERCUT IF NO HEIGHT IS NOTED. COORDINATE WITH GC.
DL-1	DOOR LOUVER. 1 = SQUARE FEET OF LOUVER.
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED

PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		BOTTOM CONNECTION (45°)
		BOTTOM CONNECTION (90°)
		BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED)
		DIRECTION OF PITCH
D	D	DROP
		ELBOW DOWN
		ELBOW UP
		EXISTING PIPE TO BE REMOVED
		EXISTING PIPE TO REMAIN
		FLOW DIRECTION DESIGNATION
		PIPE RISER
		PUMP
R	R	RISE
		TOP CONNECTION (45°)
		TOP CONNECTION (90°)

HVAC PIPING DESIGNATIONS

CHS	CHILLED WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CWS	CONDENSER WATER SUPPLY PIPE
CWR	CONDENSER WATER RETURN PIPE
CHGS	CHILLED WATER GLYCOL SOLUTION SUPPLY PIPE
CHGR	CHILLED WATER GLYCOL SOLUTION RETURN PIPE
D	DRAIN LINE. PITCH IN DIRECTION INDICATED
HWR	HEATING HOT WATER RETURN PIPE
HWS	HEATING HOT WATER SUPPLY PIPE
MU	WATER MAKE-UP PIPE
V	VENT PIPE
ET	EXPANSION TANK PIPE
HG	REFRIGERANT HOT GAS LINE
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
10	STEAM SUPPLY PIPE - NUMBER INDICATES P.S.I.G.
HPC	HIGH PRESSURE CONDENSATE RETURN PIPE
HPS	HIGH PRESSURE STEAM SUPPLY PIPE
LPC	LOW PRESSURE CONDENSATE RETURN PIPE
LPS	LOW PRESSURE STEAM SUPPLY PIPE
MPC	MEDIUM PRESSURE CONDENSATE RETURN PIPE
MPS	MEDIUM PRESSURE STEAM SUPPLY PIPE
PC	PUMPED CONDENSATE RETURN PIPE

ABBREVIATIONS

AC	- AIR COMPRESSOR OR AIR CONDITIONER	ID	- INSIDE DIAMETER
ACCU	- AIR COOLED CONDENSING UNIT	INV	- INVERT ELEVATION
AD	- ACCESS DOOR OR AREA DRAIN	IN	- INCHES
ADJ	- ADJUSTABLE		
AFF	- ABOVE FINISHED FLOOR	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AFG	- ABOVE FINISHED GRADE		
AFMS	- AIR FLOW MEASURING STATION	L	- LENGTH
ALT	- ALTERNATE	LAT	- LEAVING AIR TEMPERATURE
AP	- ACCESS PANEL	LAV	- LAVATORY
APPROX	- APPROXIMATE	LBS	- POUNDS
ARCH	- ARCHITECT OR ARCHITECTURAL	LPC	- LOW PRESSURE CONDENSATE RETURN
ASSY	- ASSEMBLY	LPS	- LOW PRESSURE STEAM SUPPLY
ATC	- AUTOMATIC TEMPERATURE CONTROL (SYNONYMOUS WITH BAS)	LWT	- LEAVING WATER TEMPERATURE
		MAX	- MAXIMUM
BAS	- BUILDING AUTOMATION SYSTEM	MDD	- MOTORIZED DAMPER
BDD	- BACK DRAFT DAMPER	MEZZ	- MEZZANINE
BFP	- BACKFLOW PREVENTER	MFR	- MANUFACTURER
BLDG	- BUILDING	MH	- MANHOLE
BOB	- BOTTOM OF BEAM	MIN	- MINIMUM OR MINUTE
BOD	- BOTTOM OF DUCT	MISC	- MISCELLANEOUS
BOE	- BOTTOM OF EQUIPMENT	MTD	- MOUNTED
BOF	- BOTTOM OF FOOTING	MTG	- MOUNTING
BOG	- BOTTOM OF GRILLE	MPC	- MEDIUM PRESSURE CONDENSATE RETURN
BOP	- BOTTOM OF PIPE		
BOT	- BOTTOM	MPS	- MEDIUM PRESSURE STEAM SUPPLY
BTU	- BRITISH THERMAL UNIT	MU	- WATER MAKE-UP
BTUH	- BRITISH THERMAL UNIT PER HOUR		
		N/C	- NORMALLY CLOSED
CBD	- COUNTER BALANCED BACKDRAFT DAMPER	NIC	- NOT IN CONTRACT
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	N/O	- NORMALLY OPEN
		NOM	- NOMINAL
CFM	- CUBIC FEET PER MINUTE	NPT	- NATIONAL PIPE THREAD
CHS	- CHILLED WATER SUPPLY	NTS	- NOT TO SCALE
CHR	- CHILLED WATER RETURN		
CHGR	- CHILLED WATER GLYCOL SOLUTION RETURN	OA	- OUTDOOR AIR
CHGS	- CHILLED WATER GLYCOL SOLUTION SUPPLY	OBD	- OPPOSED BLADE DAMPER
CLG	- CEILING	OD	- OUTSIDE DIAMETER
CMU	- CONCRETE MASONRY UNIT	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
CO	- CLEAN OUT		
CO2	- CARBON DIOXIDE	OFOI	- OWNER FURNISHED OWNER INSTALLED
CONN	- CONNECT OR CONNECTION		
CONTR	- CONTRACTOR	P	- PROPANE GAS
CTR	- CENTER	PC	- PLUMBING CONTRACTOR (DIVISION 22) OR PUMPED CONDENSATE RETURN
CU	- COPPER		
CW	- COLD WATER	PLBG	- PLUMBING
CWR	- CONDENSER WATER RETURN	PRESS	- PRESSURE
CWS	- CONDENSER WATER SUPPLY	PRV	- PRESSURE REGULATING VALVE
		PSF	- POUNDS PER SQUARE FOOT
D	- DRAIN LINE	PSI	- POUNDS PER SQUARE INCH
DB	- DRY BULB	PSIG	- POUNDS PER SQUARE INCH GAUGE
DDC	- DIRECT DIGITAL CONTROLS		
DI	- DEIONIZED WATER	RA	- RETURN AIR
DIA	- DIAMETER	RAD	- RADIUS
DIM	- DIMENSION	RCP	- REFLECTED CEILING PLAN
DN	- DOWN	RD	- ROOF DRAIN
DWG	- DRAWING	REC	- RECESSED
		REQD	- REQUIRED
EA	- EACH OR EXHAUST AIR	RI	- ROUGH IN
EAT	- ENTERING AIR TEMPERATURE	RL	- REFRIGERANT LIQUID
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	ROS	- REVERSE OSMOSIS WATER SUPPLY
EF	- EXHAUST FAN	ROR	- REVERSE OSMOSIS WATER RETURN
EJ	- EXPANSION JOINT	RPM	- REVOLUTIONS PER MINUTE
ELEC	- ELECTRICAL	RS	- REFRIGERANT SUCTION
ELEV	- ELEVATOR		
EQUIP	- EQUIPMENT	S	- SPRINKLER (WET)
ET	- EXPANSION TANK	SA	- SUPPLY AIR
ETR	- EXISTING TO REMAIN	SAN	- SANITARY OR SANITARY DRAIN
EQS	- EQUIPMENT SUPPLIER	SCH	- SCHEDULE
EWT	- ENTERING WATER TEMPERATURE	SCW	- SOFT COLD WATER
EXH	- EXHAUST	SHT	- SHEET
EXP	- EXPANSION	SPEC	- SPECIFICATIONS
EXT	- EXTERIOR	SQ	- SQUARE
EX	- EXISTING	SR	- SUPPLY RISER
		SRV	- SAFETY RELIEF VALVE
FD	- FLOOR DRAIN	SS	- STAINLESS STEEL
FF	- FINISHED FLOOR ELEVATION	STD	- STANDARD
FLR	- FLOOR	STM	- STORM OR STORM DRAINAGE
FOB	- FLAT ON BOTTOM	STRUC	- STRUCTURAL OR STRUCTURE
FOF	- FUEL OIL FLOW	SUC	- SITE UTILITY CONTRACTOR
FOG	- FUEL OIL GAUGE		
FOR	- FUEL OIL RETURN	TA	- TRANSFER AIR
FOS	- FUEL OIL SUPPLY	TEMP	- TEMPERATURE
FOT	- FLAT ON TOP	TOB	- TOP OF BEAM
FPM	- FEET PER MINUTE	TOD	- TOP OF DUCT
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	TOE	- TOP OF EQUIPMENT
FT	- FEET	TOF	- TOP OF FOOTING
FTG	- FOOTING	TOJ	- TOP OF JOIST
		TOP	- TOP OF PIPE
G	- GAS OR NATURAL GAS	TOS	- TOP OF SLAB OR TOP OF STEEL
GA	- GAUGE	TYP	- TYPICAL
GAL	- GALLON		
GALV	- GALVANIZED	UH	- UNIT HEATER
GC	- GENERAL TRADES CONTRACTOR	UNO	- UNLESS NOTED OTHERWISE
GPM	- GALLONS PER MINUTE		
		V	- VENT
HB	- HOSE BIBB	VAC	- VACUUM
HC	- HVAC CONTRACTOR (DIVISION 23)	VAV	- VARIABLE AIR VOLUME
HD	- HUB DRAIN	VEL	- VELOCITY
HG	- REFRIGERANT HOT GAS	VFD	- VARIABLE FREQUENCY DRIVE (ADJUSTABLE FREQUENCY MOTOR CONTROLLER)
HP	- HORSEPOWER		
HPC	- HIGH PRESSURE CONDENSATE RETURN		
HPS	- HIGH PRESSURE STEAM SUPPLY	VIB	- VALVE IN BOX
HR	- HOUR	VOL	- VOLUME
HT	- HEAT TRACE	VTR	- VENT THROUGH ROOF
HTR	- HEATER	VR	- VENT RISER
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING		
HW	- HOT WATER	W/	- WITH
HWR	- HEATING HOT WATER RETURN	WO	- WITHOUT
HWS	- HEATING HOT WATER SUPPLY	WB	- WET BULB
		WCO	- WALL CLEANOUT

NOTE:
ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.
ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

REMOVALS GENERAL NOTES

A. REFER TO THE ARCHITECTURAL PLANS FOR PHASING SEQUENCING. ALL PHASING REQUIREMENTS SHALL BE AS DICTATED BY THE CONSTRUCTION MANAGER.

B. FIELD VERIFY EXISTING CONDITIONS DURING BIDDING PERIOD AS MUCH AS POSSIBLE. AFTER DEMO AND REMOVALS, FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY NEW WORK, INCLUDING EQUIPMENT, PIPE, AND DUCT SIZES AND LOCATIONS, CLEARANCES, ETC.

C. ALL CUTTING AND PATCHING WORK REQUIRED FOR THE HVAC WORK SHALL BE INCLUDED IN THE HVAC CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING, EXCEPT WHERE REFINISHING OF THAT SURFACE IS INCLUDED UNDER THE GENERAL CONTRACT.

D. DEMOLISHED PIPING AND DUCTWORK SHALL BE CAPPED AT ACTIVE MAINS UNLESS NOTED OTHERWISE. ALL OPENINGS IN EXISTING DUCTWORK RESULTING FROM DEMOLITION WORK SHALL BE PATCHED WITH SHEETMETAL CLOSURE AND SEALED AIR TIGHT. INSULATE PATCH WHERE DUCT BEING PATCHED IS INSULATED.

E. EXISTING SYSTEMS SHALL REMAIN IN PLACE AND OPERATIONAL FOR AS LONG AS POSSIBLE, INCLUDING WHILE NEW EQUIPMENT IS BEING SET. COORDINATE ALL REQUIRED SHUT-DOWNS WITH THE OWNER.

F. ALL ABANDONED EXTRANEOUS PIPING, DUCTWORK, SUPPORTS, CONTROLS, WIRING, ETC., SHALL BE REMOVED.

G. ALL REMOVED THERMOSTATS, MIXING BOXES, GRILLES, REGISTERS AND DIFFUSERS, SHALL BE TURNED OVER TO THE OWNER. ITEMS NOT DESIRED BY OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

H. PATCH AND REPAIR ALL UNUSED WALL AND FLOOR PENETRATIONS AS A RESULT OF THIS WORK. WALL AND FLOOR RATINGS SHALL BE MAINTAINED, REFER TO LIFE SAFETY PLANS.

NEW WORK GENERAL NOTES

A. ALL AIR CONTROL UNITS AND OTHER EQUIPMENT ABOVE THE CEILING REQUIRING MAINTENANCE ACCESS SHALL BE MAXIMUM OF 18" ABOVE CEILING TO ALLOW FOR ACCESS.

B. DUCT RUNOUT SIZE TO AIR TERMINAL OR AIR DEVICE SHALL BE 2" LARGER THAN SCHEDULED INLET DIAMETER OF TERMINAL UNIT OR AIR DEVICE IF RUNOUT EXCEEDS 8'-0" IN LENGTH.

C. H.C. TO COORDINATE LOCATION OF ALL DUCTWORK AND AIR DEVICES WITH STRUCTURAL MEMBERS, PIPE AND DEVICES, AND THE WORK OF OTHER TRADES. PROVIDE ADJUSTMENTS OR OFF-SETS WHERE NECESSARY.

D. OFFSET DUCTWORK AS REQUIRED TO MAINTAIN ALL MANUFACTURERS RECOMMENDED CLEARANCES.

E. ALL WORK SHALL BE PHASED AS DIRECTED BY THE CONSTRUCTION MANAGER/OWNER, ALSO REFER TO ARCHITECTURAL PLANS.

F. RUN-OUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES AND EXHAUST GRILLES SHALL INCLUDE MANUAL DAMPERS PER DETAILS (NOT SHOWN ON PLANS FOR CLARITY). PROVIDE ADDITIONAL DAMPERS AS SHOWN ON FLOOR PLANS OR WHERE REQUIRED FOR SYSTEM BALANCING REGARDLESS OF BEING SHOWN OR NOT.

G. COORDINATE THE LOCATION OF ALL AIR DEVICES LOCATED IN THE CEILING WITH THE ARCHITECTS REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.

H. ALL SQUARE CORNER DUCT FITTINGS SHALL BE EQUIPPED WITH AIRFOIL TYPE TURNING VANES.

I. DUCT RUNOUT SIZE TO CEILING DIFFUSERS TO BE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE NOTED.

J. ALL CONTROL WIRING SHALL BE BY THE A.T.C.

K. ALL ROUGH-INS FOR NEW THERMOSTATS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, AND WIRED PER SPECS BY CONTROLS CONTRACTOR.

L. BALANCE EXISTING VAV BOXES TO TOTAL CFM LISTED ON ALL CONNECTED AIR DEVICES AS SHOWN ON THE DRAWINGS.

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M001	LEGEND, INDEX, & GENERAL NOTES
M002	DETAILS
M003	SPECIFICATIONS & SCHEDULES
MD100	HVAC DUCTWORK PLAN LEVEL 4 - REMOVALS
M101	HVAC DUCTWORK PLAN LEVEL 4 - NEW WORK

CHAMPLIN ARCHITECTURE

EOP architecture | interiors
10 S Patterson Blvd
Dayton, OH 45402
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HEAPY
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dayton children's

OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: VAF
Checked By: DAS
Client Number:
Project Number: 6981-12

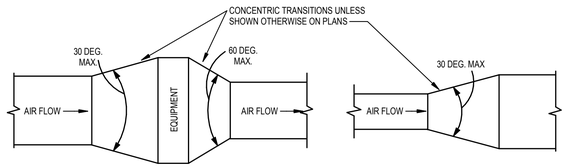
STATE OF OHIO — DEREK A. SHAW — E-87243 — REGISTERED PROFESSIONAL ENGINEER — 2025-05037 — 7/16/25

DRAWING TITLE
LEGEND, INDEX, & GENERAL NOTES

SHEET NO.
M001

7/16/2025 11:16:32 AM

ISSUED FOR CONSTRUCTION

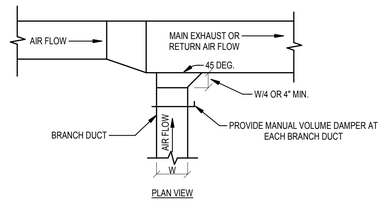


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

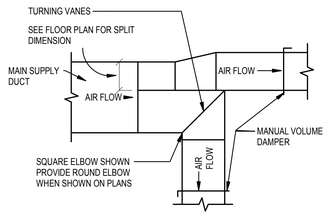
NOTE:
A. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.
B. TRANSITION ANGLES IN AND OUT OF FANS SHALL BE 50% OF THOSE SHOWN ABOVE.

1 DUCTWORK TRANSITIONS
SCALE: NONE

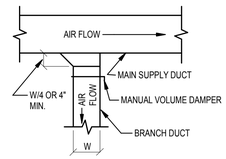


PLAN VIEW

2 EXHAUST OR RETURN BRANCH DUCTWORK
SCALE: NONE



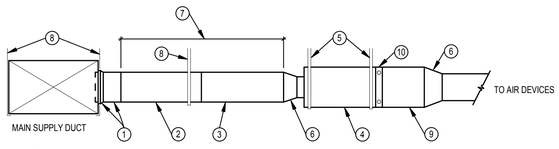
AIR SPLIT DUCT TAKE-OFF PLAN VIEW



BRANCH DUCT TAKE-OFF PLAN VIEW

THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM, AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES

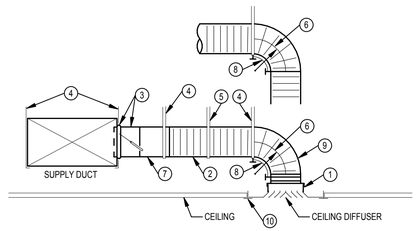
3 SUPPLY DUCTWORK BRANCH TAKE-OFFS
SCALE: NONE



NOTES

1. CONICAL SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN SUPPLY DUCT WITH INTERNAL INSULATION.
2. ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS AIR TERMINAL UNIT INLET SIZE UNLESS NOTED OTHERWISE.
3. HARD DUCT CONNECTION TO AIR TERMINAL UNIT. FLEX CONNECTION NOT PERMITTED.
4. AIR TERMINAL UNIT.
5. MINIMUM FOUR HANGER RODS FOR UNIT (CORNER POINTS). ATTACH TO STRUCTURE.
6. TRANSITION WHEN REQUIRED.
7. MINIMUM STRAIGHT LENGTH OF DUCT SHALL BE TERMINAL UNIT MANUFACTURER'S REQUIRED LENGTH, BUT AT LEAST 3 TIMES UNIT INLET DIAMETER.
8. DUCT HANGER. ATTACH TO STRUCTURE.
9. DUCT SHALL BE FULL SIZE OF UNIT OUTLET UNLESS NOTED OTHERWISE ON FLOOR PLANS.
10. REHEAT COIL WHEN SPECIFIED. REFER TO COIL DETAIL.

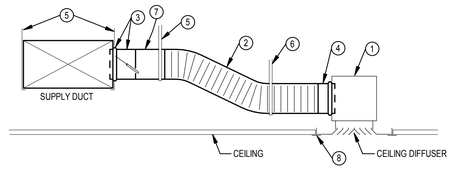
4 AIR TERMINAL UNIT HARD DUCT CONNECTION
SCALE: NONE



NOTES

1. SQUARE-TO-ROUND ADAPTER IF DIFFUSER NECK IS SQUARE. CONNECT ADAPTOR TO DIFFUSER. SEAL TO AIR DEVICE, SEAL CLASS A. INSULATE ADAPTOR AND EXPOSED BACKSIDE SURFACES OF AIR DEVICE.
2. INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT (7), 5 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
3. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION, AND EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
4. DUCT STRAP HANGER. ATTACH TO STRUCTURE.
5. STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
6. MINIMUM CENTERLINE RADIUS EQUAL TO DUCT DIAMETER.
7. ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.
8. FLEXIBLE DUCT ELBOW SUPPORT, INSTALLED WITH NYLON BANDING PER MANUFACTURER'S INSTRUCTIONS.
9. A RADIUS'D SHEET METAL ELBOW MAY BE USED IN LIEU OF A FLEXIBLE ELBOW SUPPORT WHEN CONNECTED DIRECTLY TO AIR DEVICE.
10. CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH DIFFUSER.

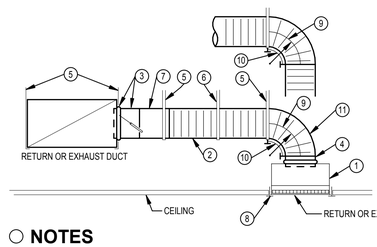
5 CEILING DIFFUSER DUCT CONNECTION
SCALE: NONE



NOTES

1. SHEET METAL BOX WITH SAME INTERNAL OR EXTERNAL INSULATION AS MAIN SUPPLY DUCT, 2" LARGER EACH DIRECTION THAN DIFFUSER NECK, WITH ADAPTOR CONNECTION TO DIFFUSER. CONNECT PLENUM TO DIFFUSER. SEAL BOX AND ADAPTOR TO AIR DEVICE, SEAL CLASS A. INSULATE ADAPTOR AND BACKSIDE SURFACES OF AIR DEVICE.
2. INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT (7), 5 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
3. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION, AND EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
4. SPIN-IN TAP FITTING SIMILAR TO (3) EXCEPT NO DAMPER.
5. DUCT STRAP HANGER. ATTACH TO STRUCTURE.
6. STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
7. ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.
8. CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH DIFFUSER.

6 CEILING DIFFUSER DUCT CONNECTION
SCALE: NONE



ROUND SHEETMETAL BRANCH DUCT	
BRANCH CFM	RD. DUCT SIZE
0 TO 120 CFM	6"D
121 TO 200 CFM	8"D
201 TO 400 CFM	10"D
401 TO 700 CFM	12"D
701 TO 1000 CFM	14"D

NOTES

1. SHEET METAL PLENUM, FULL SIZE OF GRILLE NECK, MINIMUM 6" TALL WITH SAME INTERNAL OR EXTERNAL INSULATION AS RETURN OR EXHAUST DUCT. CONNECT TO GRILLE. SEAL PLENUM AND CONNECTION TO GRILLE, SEAL CLASS A.
2. FLEXIBLE DUCT, SAME DIAMETER AS BRANCH DUCT (7), 5 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
3. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION. EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF REQUIRED FOR EXTERNALLY INSULATED DUCTWORK.
4. SPIN-IN TAP FITTING SIMILAR TO (3) EXCEPT NO DAMPER.
5. DUCT STRAP HANGER. ATTACH TO STRUCTURE.
6. STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
7. ROUND SHEET METAL BRANCH DUCT, SIZE AS INDICATED IN ADJACENT SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
8. CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH GRILLE.
9. MINIMUM CENTERLINE RADIUS EQUAL TO DUCT DIAMETER.
10. FLEXIBLE DUCT ELBOW SUPPORT, INSTALLED WITH NYLON BANDING PER MANUFACTURER'S INSTRUCTIONS.
11. A RADIUS'D SHEET METAL ELBOW MAY BE USED IN LIEU OF A FLEXIBLE ELBOW SUPPORT WHEN CONNECTED DIRECTLY TO AIR DEVICE.

7 RETURN/EXHAUST GRILLE DUCT CONNECTION
SCALE: NONE

ISSUED FOR CONSTRUCTION

CHAMPLIN ARCHITECTURE

EOP architecture | interiors
10 S Patterson Blvd
Dayton, OH 45402
T 937.224.4474

HEAPY
1400 W Dorothy Lane, Dayton, OH 45409
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dayton children's

OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: VAF
Checked By: DAS
Client Number:
Project Number: 6981-12

STATE OF OHIO — DEREK A. SHAW — E-87243 — REGISTERED PROFESSIONAL ENGINEER — 7/15/25

DRAWING TITLE
DETAILS

SHEET NO.
M002

7/16/2025 11:16:33 AM

MECHANICAL SPECIFICATIONS

1. PROVIDE A COMPLETE HVAC SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING PRINCIPAL CATEGORIES:
   A. AIR DISTRIBUTION SYSTEM CONSISTING OF SUPPLY, RETURN AND EXHAUST DUCTWORK AND ASSOCIATED AIR DISTRIBUTION AND TERMINAL DEVICES.
   B. HYDRONIC HEATING AND COOLING SYSTEMS AND ALL DEVICES AND EQUIPMENT.
   C. ALTERATION WORK IN THE EXISTING BUILDING.
2. OBTAIN AND PAY FOR ALL PERMITS. UPON COMPLETION, PROVIDE A CERTIFICATE OF APPROVAL FROM THE GOVERNING INSPECTION AUTHORITY.
3. DURING THE BIDDING PERIOD INSPECT THE SITE AND PREMISES OF THE PROPOSED WORK. REPORT IMMEDIATELY ANY SIGNIFICANT OBSERVED DISCREPANCIES AS RELATED TO THE PLANS OR THE REQUIRED WORK. ALL WORK SHALL COMPLY WITH OHIO BUILDING CODE, OHIO MECHANICAL CODE AND ALL OTHER APPLICABLE CODES, LAWS AND ORDINANCES.
4. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, EQUIPMENT, AND MATERIAL ENTERING INTO THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF CCEPTANCE. ANY WORK PROVEN TO BE DEFECTIVE DURING THIS PERIOD SHALL BE MADE GOOD BY THIS CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
5. EQUIPMENT CONTROL PANELS CONTAINING POWER CONTROL COMPONENTS SHALL BE MARKED WITH THE MINIMUM SCCR RATING. THE RATING SHALL NOT BE LESS THAN THE AVAILABLE FAULT CURRENT. REFER TO THE ELECTRICAL DRAWING FOR THE CALCULATED AVAILABLE FAULT AT THE DISTRIBUTION PANEL, MCC OR PANELBOARD SERVING THE EQUIPMENT. INCLUDE CONFIRMATION OF BEING PROTECTED FROM THE FAULT CURRENT IN THE EQUIPMENT SHOP DRAWING SUBMITTAL.
6. WHERE TRADE NAMES, BRANDS OR MANUFACTURERS ARE LISTED, ANY ONE OF THE SEVERAL NAMED ARE CONSIDERED EQUALLY ACCEPTABLE. NO UNNAMED PRODUCT OR MATERIAL SHALL BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER. SUBMIT ELECTRONIC SHOP DRAWINGS ON MAJOR ITEMS OF EQUIPMENT AND MATERIALS.
7. PLAN WORK AS TO PROVIDE REASONABLE CONTINUOUS SERVICE OF EXISTING SYSTEMS. SHUTDOWN OF SYSTEMS SHALL BE BID OUTSIDE OF NORMAL WORKING HOURS.
8. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT'S OR ENGINEER'S JUDGMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
9. PROTECT MATERIALS AND EQUIPMENT AFTER DELIVERY TO THE JOB SITE. RESPECT OTHER TRADES AS RELATED TO PROTECTING THEIR WORK AND TO AVOID CONSTRUCTION INTERFERENCES. CALL ATTENTION TO PROBLEMS RELATING TO SPACE REQUIREMENTS SO EARLY RESOLUTION MAY BE OBTAINED. RESPECT OWNER'S PROPERTY AT ALL TIMES. TEMPORARILY REMOVE, STORE AND RE-INSTALL CEILINGS WHEN REQUIRED TO PREFORM WORK.
10. CUT AND PATCH TO INSTALL WORK OR PAY OTHERS TO PERFORM SUCH WORK. CONCRETE SHALL BE SAW CUT OR CORE DRILLED. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT'S OR ENGINEER'S JUDGMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
11. IN ALTERATION AND REMODELING WORK, PERFORM ALL REMOVAL AND RELOCATION WORK KINDRED TO THE HVAC WORK. LEAVE ALL EXISTING SYSTEMS CONTINUOUS AND FUNCTIONAL. REMOVE EXTRANEOUS PIPING AND EQUIPMENT. NO REMOVED MATERIAL SHALL BE REUSED UNLESS EXPRESSLY SHOWN.
12. EACH CONTRACTOR SHALL MAINTAIN A SEPARATE SET OF AS-BUILT PRINTS OF THE CONTRACT DOCUMENTS AND SHALL SHOW ANY SIGNIFICANT CHANGES OR VARIATIONS WHICH ARE MADE DURING CONSTRUCTION. UPON COMPLETION OF THE WORK, THESE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT.
13. MARK ALL DUCT SYSTEMS AND PIPING SYSTEMS AND TAG ALL VALVES. ANY EXISTING DUCTWORK AND PIPING ENCOUNTERED SHALL ALSO BE MARKED. VALVE TAGS SHALL BE NON-FERROUS METAL, 1" DIAMETER AND ATTACHED BY COPPER LOOP HOOKS. PIPE MARKERS SHALL BE 1" HIGH LETTERS WITH COLOR BAND AND ARROW. MARKERS SHALL BE AT EACH VALVE AND AT LEAST ONE IN EACH ROOM, BUT NO MORE THAN 20 FT. INTERVALS. COLOR BAND SHALL MATCH EXISTING OR AS DICTATED BY OWNER. TURN OVER VALVE TAG SCHEDULE TO ARCHITECT.
14. FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS OF PIPING AND NON-FIRE DAMPERED DUCTS THRU FIRE RATED FLOORS, FIRE RATED FLOOR-CEILING AND ROOF CEILING ASSEMBLIES, FIRE & SMOKE RATED WALLS AND PARTITIONS AND FIRE & SMOKE RATED SHAFT WALLS AND PARTITIONS. IN ADDITION, FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS THRU 0-HOUR RATED FLOORS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED BUILDING ELEMENTS AND HVAC DRAWINGS FOR PIPE AND DUCT LAYOUTS. ALL FIRESTOPPING PRODUCTS SHALL BE BY HILTI.
15. SUPPORT EQUIPMENT, DUCTWORK AND PIPING FROM STRUCTURAL STEEL MEMBERS OR CONCRETE ONLY, NOT FROM METAL DECKS. PIPE HANGERS SHALL BE CLEVIS TYPE.
16. PROVIDE 18" X 18" SIZE ACCESS DOORS WITH CONCEALED HINGE, SCREWDRIVER LOCK, TYPE M BY MILCOR, OR APPROVED EQUIVALENT, WHERE REQUIRED FOR DEVICE OR EQUIPMENT ACCESS.
17. PAINT ALL UNPAINTED OR RUSTY SURFACES ON SUPPORTS, HANGERS, PIPING AND EQUIPMENT WITH ONE (1) COAT BLACK RUSTOLEUM WHERE THE ITEM WILL BE EXPOSED TO VIEW IN ITS FINAL STATE.
18. TOUCH-UP OR REFINISH EQUIPMENT WHERE FACTORY FINISH HAS DETERIORATED DUE TO EXPOSURE.
19. PAINT DULL BLACK ALL VISIBLE METAL BEHIND GRILLES AND REGISTERS.
20. INSTALL SLEEVES IN ALL FLOORS, WALLS AND CEILINGS WHERE PIPES PASS THRU. SLEEVES SHALL BE SIZED TO PROVIDE A MINIMUM CLEARANCE OF 1/4" ON ALL SIDES FROM PIPE INSULATION AND 1/2" FROM PIPES NOT REQUIRING INSULATION. PIPE INSULATION SHALL EXTEND CONTINUOUS THRU SLEEVES. SLEEVES MAY BE RIGID STEEL OR SHEET METAL. EXTEND SLEEVES AT LEAST 1/2" ABOVE FLOOR IN UPPER LEVEL EQUIPMENT ROOMS.
21. REFER TO DUCT CONSTRUCTION & SEALING SCHEDULE ON THE DRAWINGS.
    PATCH ALL DUCTWORK THAT IS ALTERED DURING CONSTRUCTION

    DUCTWORK SHALL BE MINIMUM 26 GAUGE GALVANIZED SHEET METAL, RECTANGULAR, FLAT OVAL AND ROUND AS SHOWN ON THE DRAWINGS.

    RECTANGULAR DUCTWORK: ELBOWS SHALL HAVE AN INSIDE RADIUS EQUALTO THE DUCT WIDTH. WHERE 90° ELBOWS ARE SHOWN TO BE SQUARE ON THE DRAWINGS, THEY SHALL BE SQUARE (MITERED) WITH TURNING VANES, SINGLE VANE TYPE IN LENGTHS 32" AND LESS, DOUBLE WALL IN LONGER VANES, INSTALLED AND SUPPORTED PER SMACNA. ELBOWS LESS THAN 90° SHALL BE RADIUSED. NON-RADIUSED ELBOWS LESS THAN 90°, WITH OR WITHOUT TURNING VANES, ARE NOT PERMITTED.

    OFFSETS AND TRANSITIONS SHALL CONFORM TO SMACNA. TRANSITION ANGLES SHALL BE LIMITED TO 30 DEGREES ON CONVERGING TRANSITIONS AND 20 DEGREES ON DIVERGING TRANSITIONS.

    BRANCH TAKE-OFFS, WHERE NOT DETAILED OTHERWISE, SHALL BE WITH A STATIC BOOT (45° CLINCH COLLAR) PER SMACNA. STRAIGHT TAP TAKE-OFFS ARE NOT PERMITTED.

    DIVIDED FLOW BRANCHES SHALL CONFORM TO SMACNA. BULL HEAD TEES WITHOUT VANES ARE NOT PERMITTED.

    LOW PRESSURE, ROUND, SINGLE WALL. FOLLOW SMACNA STANDARDS.

    ROUND AND FLAT OVAL DUCT: SHALL BE FACTORY OR SHOP FORMED SPIRAL LOCK SEAM, UNITED MCGILL AIR PRODUCTS "UNI SEAL" OR "UNI RIB" OR EQUAL BY SEMCO, TANGENT AIR OR APPROVED EQUAL.

    ELBOWS AND FITTINGS FOR SPIRAL LOCK SEAM ROUND AND FLAT OVAL DUCTWORK SHALL BE FACTORY SOLID WELDED, EQUAL TO UNITED MCGILL AIR PRODUCTS "UNI SEAL" AND "ACOUSTI-K27" WITH BEADED SLEEVE TRANSVERSE JOINT CONNECTORS. ELBOWS SHALL BE LONG RADIUS TYPE AND, WHERE SHOWN, MITERED WITH TURNING VANES. BRANCH TAKE OFFS SHALL BE STREAMLINED CONICAL TYPE WITH T OR Y BRANCHES TO MINIMIZE PRESSURE LOSSES. OFFSETS AND TRANSITIONS SHALL CONFORM TO SMACNA. TRANSITION ANGLES SHALL BE LIMITED TO 30 DEGREES ON CONVERGING TRANSITIONS AND 20 DEGREES ON DIVERGING TRANSITIONS. DIVIDED FLOW BRANCHES SHALL CONFORM TO SMACNA. BULL HEAD TEES WITHOUT VANES ARE NOT PERMITTED. CONSTRUCTION, RE-ENFORCING, SUPPORTS, ETC. SHALL EITHER CONFORM TO SMACNA OR TO THE DUCT MANUFACTURER'S STANDARDS, WHICHEVER IS MORE STRINGENT.

    ROUND DUCT OF 1" AND LESS (POSITIVE AND NEGATIVE) STATIC PRESSURE CONSTRUCTION CLASS MAY BE LONGITUDINAL SEAM. ELBOWS FOR LONGITUDINAL SEAM ROUND DUCTWORK SHALL BE FACTORY OR SHOP FORMED SEGMENTED STANDING SEAM OR PLEATED. OTHER FITTINGS SHALL BE COMPARABLE TO THE ELBOWS. JOINTS SHALL BE HELD IN PLACE BY THE USE OF SCREWS OR SPOT WELDING. SOCKET TYPE, OVERLAPPING JOINTS SHALL BE USED. DUCT SEALER SHALL BEAR UL LABEL EQUAL TO CHEM-CON "HARDCAST" MINERAL FIBER TAPE.

    AIR DEVICE DUCT CONNECTIONS FOR ROUND DUCT BRANCH CONNECTIONS TO RECTANGULAR SHEET METAL DUCTS SHALL BE 24 GAUGE SHEET METAL, EQUAL TO FLEXMASTER SERIES FL. STRAIGHT SIDE, WITH AND WITHOUT MANUAL DAMPER, AS DESCRIBED ON THE DRAWINGS. AIR TERMINAL UNIT DUCT CONNECTIONS FOR ROUND DUCT BRANCH CONNECTIONS TO RECTANGULAR SHEET METAL DUCTS SHALL BE 24 GAUGE SHEET METAL CONICAL TYPE EQUAL TO FLEXMASTER SERIES CB. CONNECTORS INSTALLED ON INTERIOR LINED RECTANGULAR DUCT SHALL HAVE AN INTEGRAL INSULATION GUARD SLEEVE. RECTANGULAR TAP-TO-ROUND BRANCH CONNECTION WITH STATIC BOOT CONFIGURATION SHALL BE EQUAL TO FLEXMASTER TYPE STO. BUCKLEY

    "AIR-TITE" FITTINGS OR SIMILAR BY "SNAP RITE", EQUAL TO THE SPECIFIED FLEXMASTER FITTINGS, WITH NEOPRENE GASKET AND ADHESIVE FACING, ADDITIONALLY SECURED WITH MINIMUM FOUR SHEETMETAL SCREWS, MAY BE USED FOR AIR DEVICE DUCT TAPS TO RECTANGULAR SHEET METAL DUCT WHICH IS NOT INTERNALLY LINED.

    SOLVENT BASED SEALERS ARE PROHIBITED, AS ARE DUCT SEALANTS CONTAINING ASBESTOS. DUCT SEALANT MATERIALS SHALL BE ONE OR MORE OF THE FOLLOWING (COMPATIBLE WITH THE APPLICATION): WATER BASE DUCT SEALERS AND MASTICS EQUAL TO UNITED MCGILL, WHEN THE INSTALLATION ENVIRONMENT IS ABOVE 40°F. ACETONE BASED DUCT SEALERS AND MASTICS, EQUAL TO PRECISION ADHESIVES, WHEN THE INSTALLATION ENVIRONMENT IS BETWEEN 0°F AND 40°F, ZERO REPORTABLE V.O.C.'S.

    MINERAL IMPREGNATED FIBER TAPE WITH LIQUID SEALANT DUCT JOINT SEALER EQUAL TO THAT MANUFACTURED BY HARDCAST, INC., TWO PART II SEALING SYSTEM, MAXIMUM V.O.C. OF 135 G/L.
22. HEATING HOT WATER PIPING SHALL BE TYPE L COPPER TUBING, CONFORMING TO ASTM B88, STANDARD SPECIFICATION FOR SEAMLESS COPPER WATER TUBE AND FITTINGS AND JOINTS. FITTINGS – WROUGHT COPPER OR CAST BRONZE, SOLDER ENDS. JOINTS – SOLDERED WITH LEAD-FREE TIM ALLOY, 95-5 TIN-ANTIMONY OR SILVER-BEARING TIN EQUAL TO HARRIS "STAY-BRITE", "STAY-BRITE 8" OR "BRIDGIT". TEST PIPING TO 1.50 TIMES ANTICIPATED WORKING PRESSURE.
23. SHUT OFF VALVES SHALL BE BALL TYPE, TWO PIECES, BRONZE BODY, SCREWED ENDS, CHROME PLATED FULL PORT BRONZE BALL AND STEM, TFE SEAT AND SEAL AND EXTENDED SHAFT LEVER TYPE HANDLE, NIBCO MODEL #T-580-70 OR EQUAL.
24. PIPE INSULATION SHALL BE ARMACELL FACTORY MOLDED ELASTOMERIC TYPE OR FACTORY MOLDED TUBULAR FIBERGLASS WITH ALL SERVICE JACKET AND VAPOR BARRIER AS MANUFACTURED BY KNAUF, CERTAINTEED, JOHNS-MANVILLE OR OWENS CORNING, ALL RATED FOR 25/50 RATING AS DETERMINED BY NFPA 255. INSULATION SHALL BE OF THICKNESS IN COMPLIANCE WITH ASHRAE 90.1 LATEST PUBLISHED, GREEN GUARD CERTIFIED.
25. AIR DISTRIBUTION DEVICES ARE SPECIFIED ON THE DRAWINGS. MANUFACTURER LISTED IS INTENDED AS A STANDARD TO SUPPLEMENT THE DEVICE DESCRIPTION. DEVICES EQUAL TO THOSE CATALOG NUMBERS, AS MANUFACTURED BY TITUS, PRICE OR KRUEGER ARE ACCEPTABLE.
26. BALANCING DAMPERS, IN ADDITION TO THOSE INCORPORATED IN AIR DISTRIBUTION DEVICES, SHALL BE SINGLE CROSS-BLADE UP TO 12" BLADE WIDTH AND MULTI-BLADE IN LARGER SIZES. DAMPERS MOUNTED IN DUCTS SHALL BE CONTROLLED BY A LOCKING QUADRANT POSITIONER WITH HANDLE. FOR DUCTS WITH EXTERIOR INSULATION, PROVIDE SUITABLE EXTENSIONS FOR POSITIONERS EQUAL TO VENTLOCK 637. MULTI-BLADE DAMPERS SHALL BE OPPOSED BLADE TYPE WITH ADEQUATE LOCKING MEANS FOR STABLE POSITIONING. FURNISH ACCESS PANELS WHERE REQUIRED FOR ACCESS TO DAMPERS.
27. SECTION OMITTED.
28. ACCESS DOORS SHALL BE PROVIDED WHERE REQUIRED FOR ACCESS TO FIRE DAMPERS OR OTHER DEVICES WITHIN DUCTS WHICH REQUIRE ACCESS. THESE SHALL BE 14" X 14" SIZE UNLESS DUCT SIZE LIMITS HEIGHT. DOORS IN UNINSULATED DUCTS SHALL HAVE HINGED DOOR, CAM LOCKS AND GASKET. DOORS IN INSULATED DUCTS SHALL BE INSULATED TYPE WITH HINGE AND CAM LOCK. WHERE FIRE DAMPER LINKS OCCUR, ACCESS DOORS SHALL HAVE A PLEXIGLASS VISION PORT. LOCATE DAMPERS AND ACCESS DOORS TO BE ACCESSIBLE. DEMONSTRATE TO THE OWNER THE ACCESSIBILITY TO ALL FIRE DAMPER LINKS.
29. DUCT INSULATION SHALL BE MANUFACTURED BY MANVILLE, OWENS-CORNING KNAUF, OR CERTAINTEED, INSTALLED BY TRAINED INSTALLERS, IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EACH COMPOSITE INSULATION ASSEMBLY SHALL MEET NFPA 255 REQUIREMENTS, NOT EXCEEDING A FLAME SPREAD RATING OF 25, OR A SMOKE DEVELOPMENT OF 50. CONFORM TO CODE REQUIREMENTS REGARDING LABELING OF INSULATION AT REGULAR INTERVALS, STATING MANUFACTURER, FIRE AND SMOKE RATINGS AND THICKNESS.

    ALL SUPPLY AIR, FRESH AIR, AND MIXED AIR DUCTS SHALL BE INSULATED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

    DUCT INSULATION R-VALVE SHALL BE IN ACCORDANCE WITH ASHRAE 90.1, LATEST PUBLISHED EDITION, BUT MINIMUM R-3.7 1-1/2" THICK, 3/4 LB. DENSITY FLEXIBLE FIBROUS GLASS BLANKET WITH ALUMINUM VAPOR BARRIER AND KRAFT PAPER JACKET, GREENGUARD CERTIFIED.

    ADHERE INSULATION ON DUCTS WITH NON-ORGANIC HOT OR COLD ADHESIVE APPLIED TO THE BOTTOM SIDE ONLY OR IMPALING PINS. JOINTS SHALL BE TAPED TO OVERLAP FOR VAPOR BARRIER. VAPOR BARRIERS SHALL BE CONTINUOUS TO PREVENT CONDENSATION.PATCH ALL DUCT INSULATION THAT IS REMOVED FOR ALTERATION OF DUCTWORK OR DAMAGED DURING CONSTRUCTION.
30. AS EACH SYSTEM IS PUT INTO OPERATION, ALL ITEMS OF EQUIPMENT INCLUDED THEREIN SHALL BE ADJUSTED TO PERFECT WORKING ORDER. THIS SHALL INCLUDE BALANCING AIR AND ADJUSTING FAN SPEEDS, BELTS, PULLEYS, TIGHTENING PACKING GLANDS, OILING AND ADJUSTING ALL OPERATING EQUIPMENT.
31. VERSE THE OWNER'S REPRESENTATIVES IN ALL MATTERS PERTAINING TO THE PROPER OPERATION AND MAINTENANCE OF EQUIPMENT WHICH IS FURNISHED UNDER THIS CONTRACT. INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTION PAMPHLETS, OR BROCHURES AND WARRANTIES, SHALL BE OBTAINED FROM EACH MANUFACTURER OF THE PRINCIPAL ITEMS OF EQUIPMENT, AND THESE SHALL BE TURNED OVER TO THE ARCHITECT. IN ADDITION, THE CONTRACTOR SHALL PREPARE A CHART LISTING ALL ITEMS OF EQUIPMENT WHICH ARE FURNISHED UNDER HIS CONTRACT AND INDICATING THE NATURE OF MAINTENANCE REQUIRED, THE RECOMMENDED FREQUENCY OF CHECKING THESE POINTS AND THE TYPE OF LUBRICATING MEDIA OR REPLACEMENT MATERIAL REQUIRED. THREE (3) SET OF OPERATING AND MAINTENANCE INSTRUCTIONS AND WIRING DIAGRAMS SHALL BE FURNISHED ON EACH PIECE OF EQUIPMENT.
32. AFTER ALL EQUIPMENT HAS BEEN ADJUSTED, THE CONTRACTOR SHALL MAKE A TRIAL RUN AND DEMONSTRATE TO THE ARCHITECT AND THE OWNER THAT THE REQUIREMENTS OF THE CONTRACT HAVE BEEN FULFILLED. DURING THIS RUN, THE CONTRACTOR SHALL EXPLAIN TO THE OWNER'S REPRESENTATIVE THE COMPLETE OPERATION OF THE SYSTEM AND THE FUNCTION OF ALL MAJOR ITEMS OF EQUIPMENT. A PERIOD OF 48 HOURS OF CONTINUOUS TROUBLE-FREE OPERATION ON ALL PARTS OF THE WORK SHALL BE CONSIDERED THE MINIMUM REQUIREMENT TO DEMONSTRATE THAT THE SYSTEM IS SATISFACTORY AND MEETS FULLY THE REQUIREMENTS OF THE CONTRACT.
33. AN AIR AND WATER BALANCE SHALL BE PERFORMED BY A SEPARATE SUBCONTRACTOR SPECIALIZING IN THIS FIELD. THE BALANCE CONTRACTOR SHALL BE AN ACTIVE, FULLY CERTIFIED MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL OR N.E.B.B. SYSTEMS SHALL BALANCED TO DELIVER THE QUANTITIES INDICATED (WITHIN PLUS OR MINUS 10 PERCENT).
34. AIR TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT HOT WATER REHEAT VARIABLE AIR VOLUME UNITS WITH CONTROL DAMPER AND VELOCITY SENSORS. CONSTANT VOLUME UNITS SHALL BE SAME AS VARIABLE VOLUME UNITS EXCEPT WITH A SINGULAR SETPOINT. UNITS SHALL BE AS SPECIFIED BELOW AND SHOWN ON THE DRAWINGS.

    UNIT SIZES (INLET DUCT SIZE) SHALL CONFORM TO THOSE LISTED ON THE DRAWINGS EXCEPT WHERE LARGER SIZE IS REQUIRED TO MEET NOISE OR OPERATIONAL REQUIREMENTS. RESULTANT NOISE LEVEL FROM THE CONTROL UNIT, DUCTWORK AND DIFFUSERS, AS A SYSTEM, SHALL NOT EXCEED A ROOM NC LEVEL OF 35 FROM BOTH AIRBORNE AND RADIATED NOISE, BASED ON AHRI 885 LATEST EDITION, WITH 3.0" S.P. DIFFERENTIAL ACROSS THE UNIT AT MAXIMUM CFM SETTING. ALLOWANCE FOR LINED DUCTWORK SHALL ONLY BE USED WHEN ACOUSTIC LINING IS SPECIFIED FOR DUCTWORK DOWNSTREAM OF AIR TERMINAL UNIT. WHEN THIS NOISE LEVEL CANNOT BE MET, A DOUBLEWALL SOUND ATTENUATOR, SHALL BE PROVIDED IN THE DISCHARGE DUCTWORK TO ATTAIN THE SPECIFIED NOISE LEVEL, MAXIMUM 0.05" S.P. DROP. TERMINAL UNITS SHALL ALSO BE CERTIFIED TO COMPLY WITH AHRI STANDARD 880.

    UNIT CASING SHALL BE 22 GAUGE MINIMUM GALVANIZED OR GALVANEALED SHEETMETAL WITH BEADED ROUND INLET DUCT CONNECTION. CASING SHALL BE LINED INTERNALLY WITH MINIMUM R-4.0 INSULATION, FIBER FREE OR FIBERGLASS WITH REINFORCED ALUMINUM FOIL FACING. LINING SHALL MEET UL 181 EROSION STANDARDS, NFPA 255 FIRE AND SMOKE REQUIREMENTS AND BIOLOGICAL STANDARDS OF ASTM G965. EDGES, JOINTS AND OTHER EXPOSURES SHALL BE ADDITIONALLY COATED OR PROTECTED WITH METAL EDGING.

    AIRFLOW CONTROL DAMPER OR VALVE SHALL HAVE LINEAR CONTROL CHARACTERISTICS AND SHALL BE 16 GAUGE GALVANIZED STEEL OR EXTRUDED OR CAST ALUMINUM WITH GASKETING AND NYLON BEARINGS.
    VELOCITY SENSOR SHALL BE MULTI-POINT AVERAGING CROSSFLOW TYPE. THE VELOCITY SENSOR SHALL BE MOUNTED IN THE INLET AIR STREAM AND SHALL AMPLIFY THE AIRFLOW SIGNAL TO PROVIDE ACCURATE CONTROL AT LOW, AS WELL AS HIGH, INLET STATIC PRESSURE CONDITIONS. REQUIRED MINIMUM STATIC PRESSURE OF THE VOLUME REGULATOR SHALL NOT EXCEED 0.25 INCH W.G. FOR PROPER OPERATION.

    AIRFLOW TAPS SHALL BE PROVIDED TO ENABLE DIRECT READING OF TOTAL AND STATIC PRESSURES. A CONVERSION CHART ATTACHED TO EACH UNIT TO CONVERT PRESSURE READINGS TO AIRFLOW QUANTITIES.
    CASING LEAKAGE AND DAMPER LEAKAGE SHALL EACH NOT EXCEED 2% OF MAXIMUM AIRFLOW CFM AT 3.0" S.P. DIFFERENTIAL ACROSS THE UNIT.
    UNITS SHALL HAVE A SHEET METAL HOUSING TO ENCLOSE CONTROL DEVICES AND WIRING WHICH ARE MOUNTED ON THE EXTERIOR OF THE UNIT CASING. UNITS SHALL BE MANUFACTURED BY PRICE, KRUEGER, TITUS, NAILOR OR TRANE.
35. PREPARE SHEET METAL DRAWINGS FOR REVIEW, COORDINATE DUCT LAYOUT CAREFULLY WITH OTHER TRADES TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, LIGHTING AND PLUMBING-HEATING PIPING. HAVING DUCTWORK FABRICATED AND DELIVERED IN ADVANCE SHALL NOT BE JUSTIFICATION FOR INTERFERENCE WITH OTHER TRADES.
36. A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROLS SHALL BE INSTALLED AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF CONTROL FOR THE VARIOUS ITEMS OF EQUIPMENT AND SYSTEMS FURNISHED. THE SYSTEM SHALL BE A DIRECT DIGITAL CONTROL SYSTEM UTILIZING ELECTRIC ACTUATION.

    REFER TO DRAWINGS FOR CONTROL SEQUENCES AND DIAGRAMS.

    CONTROL VALVES SHALL BE PRESSURE INDEPENDENT 2-WAY TYPE. VALVES SHALL AUTOMATICALLY COMPENSATE FOR SYSTEM PRESSURE CHANGES THRU AN INTEGRAL DIFFERENTIAL PRESSURE CONTROLLER, AND SHALL MAINTAIN A CONSTANT PRESSURE DROP ACROSS THE FLOW LIMITING ACTUATED BALL OR GLOBE. MAX FLOW LIMITER SHALL BE ADJUSTABLE SPRING LOADED STAINLESS STEEL CARTRIDGE. VALVES 2" AND SMALLER SHALL BE BRASS, RATED NO LESS THAN 360 PSI AT 250 DEG. F. VALVES 3" AND LARGER SHALL BE DUCTILE IRON. MAXIMUM 5.0 PSID TO ACTIVATE THE MECHANISM WITH MINIMUM 5% CONTROL AND FLOW ACCURACY.

    PROVIDE ALL ELECTRICAL WIRING, BOTH LINE VOLTAGE AND LOW VOLTAGE, WHICH IS REQUIRED TO PERFORM THE AUTOMATIC CONTROL FUNCTIONS. WIRING, BOTH LINE AND LOW VOLTAGE, SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) AND SHALL BE SUBJECT TO APPROVAL OF THE LOCAL CODE ENFORCING AUTHORITIES.

    COMMUNICATION WIRE SHALL BE CATEGORY 6 PLENUM RATED, 4 TWISTED PAIR, NON-SHIELDED (UTP) STATION CABLE (CAPABLE OF TRANSMISSION SPEEDS UP TO 100 MB/S) SHALL BE USED FOR CONTROL SYSTEM NETWORKING. CABLE SHALL BE INSULATED WITH FEP MATERIAL AND SEQUENTIALLY MARKED AT 2 FOOT INTERVALS. COLOR AS SELECTED BY OWNER.

    ALL LINE VOLTAGE WIRING AND LOW VOLTAGE WIRING (EXCEPT AS STATED BELOW) SHALL BE RUN IN CONDUIT. LOW VOLTAGE WIRING CONCEALED ABOVE ACCESSIBLE CEILINGS MAY BE RUN WITHOUT CONDUIT. OPEN WIRING DROPPING INTO WALLS SHALL BE RUN IN CONDUIT. THERMOSTATS SHALL BE INSTALLED ON A SINGLE GANG BOX AND CONDUIT SHALL BE INSTALLED TO EXTEND INTO THE PLENUM. OPEN WIRING SHALL BE BUNDLED AND SUPPORTED AT 3 FT. MAXIMUM INTERVALS WITH A SYSTEM OF J-HOOKS. OPEN WIRING IN AIR PLENUMS SHALL BE RATED FOR SUCH USE AND SO LABELED.

    THERMOSTATS AND OTHER WALL MOUNTED SENSORS SHALL BE INSTALLED ON A SINGLE GANG BOX. EMT CONDUIT SHALL BE INSTALLED FROM THE WALL BOX TO THE PLENUM; CABLING WITHIN THE WALL SHALL BE IN CONDUIT. PROVIDE ELECTRICAL CIRCUITS FROM THE NEAREST APPROPRIATE EMERGENCY ELECTRICAL PANEL TO SERVE CONTROL PANELS, TRANSFORMERS, AND OTHER CONTROL EQUIPMENT AND DEVICES. CIRCUITS SERVING CONTROL PANELS AND TRANSFORMERS FOR LOW VOLTAGE SERVICE SHALL BE INDEPENDENT AND USED FOR NO OTHER PURPOSE. CIRCUITS FOR VAV DDC CONTROLLERS AND OTHER UNITARY TYPE CONTROLS NEED NOT BE ON EMERGENCY POWER. PROVIDE CIRCUIT WIRING FROM THE ELECTRICAL PANEL. THESE CIRCUITS SHALL BE CLEARLY IDENTIFIED AT THE PANELS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.

DUCT CONSTRUCTION, SEALING, AND INSULATION

GENERAL NOTES:
A. REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION: SHEET METAL DUCT; INTERIOR LINING; EXTERIOR INSULATION; FIBERGLASS DUCTBOARD; ETC.
B. DUCT CONSTRUCTION AND SEALING SHALL BE PER LATEST S.M.A.C.N.A. STANDARDS.

NOTES:
1. ROUND SHEET METAL RUN-OUTS TO AIR DEVICES MAY BE 1" S.P. CLASS.

DUCT SYSTEM	S.M.A.C.N.A. CLASS. S.P. CONSTRUCT.	SEAL CLASS	LEAKAGE CLASS RECT	LEAKAGE CLASS RND	INTERNALLY LINED	EXTERNAL INSULATION	DOUBLE WALL INSULATED	NOT INSULATED	SEE NOTE
SUPPLY DUCTWORK UPSTREAM OF VAV BOXES	+3"	A	8	4	-	●	-	-	-
SUPPLY DUCTWORK DOWNSTREAM OF VAV BOXES	+1"	A	16	8	-	●	-	-	-
RETURN DUCTWORK	-2"	A	16	8	-	-	-	●	1
EXHAUST AIR DUCTWORK	-2"	A	16	8	-	-	-	●	1

AIR DISTRIBUTION DEVICES

GENERAL NOTES:
A. ALL LAY-IN AIR DEVICES SHALL FIT IN 24"X24" LAY-IN CLG SYSTEM. VERIFY GRID TYPE AND COORDINATE AIR DEVICE COMPATIBILITY.
B. FINISH KEY: "W.B.E." - WHITE BAKED ENAMEL; "E.C.L." - ETCHED CLEAR LACQUER OR ANODIZED; "C.C.B.A." - CUSTOM COLOR SELECTED BY ARCHITECT.
C. SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW, UNLESS INDICATED OTHERWISE BY ARROWS ON DRAWINGS.
D. PROVIDE AUX. FRAMES FOR AIR DEVICES IN PLASTER, GYPSUM BOARD, TILE OR OTHER HARD SURFACES.

NOTES:
1.

MARK	DESCRIPTION	MOUNTING TYPE LAY-IN	SURFACE	DUCT	SPLINE	SNAP-IN	SLOTS QUANTITY	WIDTH	MATERIAL STEEL	ALUMINUM	STAINLESS STEEL	FINISH W.B.E.	E.C.L.	C.C.B.A.	OPPOSED BLADE DAMPER	SQ-TO-RD NECK ADAPTOR	BASIS OF DESIGN MANUFACTURER	MODEL	SEE NOTE
A1	STANDARD SQ. PLAQUE CEILING DIFFUSER - ROUND NECK	●								●		●					TITUS	OMNI	
J1	PERFORATED RETURN GRILLE	●								●		●					TITUS	8F	
K1	PERFORATED CEILING GRILLE, EXHAUST	●								●		●					TITUS	8F	
K2	PERFORATED CEILING GRILLE, EXHAUST		●							●		●			●		TITUS	8F	

AIR TERMINAL UNITS - HOT WATER HEAT

GENERAL NOTES:
A. TYPES: "V.V." - VARIABLE VOLUME: "V.V.R." - VARIABLE VOLUME REHEAT; "C.V.R." - CONSTANT VOLUME REHEAT; "V.V.E." - VARIABLE VOLUME EXHAUST; "C.V.E." - CONSTANT VOLUME EXHAUST.
B. 0.35" MAX. S.P. DROP THRU UNIT & COIL AT MAX. CFM.
C. REHEAT COIL CAPACITIES BASED ON HEATING MAX. CFM, 55°F ENT. AIR & 140°F ENT. WATER, AND MAX. 5FT. HD. W.P.D.
D. AUTO VALVES SHALL BE 2-WAY TYPE UNLESS NOTED OTHERWISE.
E. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.
F. WHEN PICV IS INDICATED, MINIMUM REQUIRED INLET PRESSURE SHALL NOT EXCEED 5 PSIG.
G. IF REHEAT COIL IS FURNISHED SEPARATELY FROM TERMINAL UNIT, PROVIDE DUCT TRANSITION AS REQUIRED BETWEEN TERMINAL UNIT AND COIL.

NOTES:
1. EXISTING VAV BOX. REBALANCE TO VALUES INDICATED.
2. PROVIDE BID ALT

PLAN NOTES

1. THERMOSTAT TO BE RELOCATED. SEE NEW WORK PLAN FOR NEW LOCATION.
2. EXISTING TO REMAIN. TYPICAL.
3. REMOVED DUCTWORK AND AIR DEVICES AS INDICATED. CAP AND SEAL AT ACTIVE MAIN.
4. EXACT LOCATION OF THERMOSTAT UNABLE TO BE LOCATED DURING FIELD INVESTIGATION. THERMOSTAT TO BE LOCATED IN THE FIELD DURING CONSTRUCTION. RELOCATION FROM ORIGINAL POSITION SHALL ONLY OCCUR IF REQUIRED DUE TO CONFLICTS WITH DEMOLITION OR IF THE THERMOSTAT IS LOCATED OUTSIDE OF THE NEW ZONE THAT BOX 49-4-16 SERVES.

1 **HVAC DUCTWORK PLAN LEVEL 4 - REMOVALS**
SCALE: 3/16" = 1'-0"

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By VAF
Checked By DAS
Client Number
Project Number 6981-12

STATE OF OHIO — DEREK A. SHAW — E-87243 — REGISTERED PROFESSIONAL ENGINEER — 2025-05037 — 7/15/25

DRAWING TITLE
HVAC DUCTWORK PLAN LEVEL 4 - REMOVALS

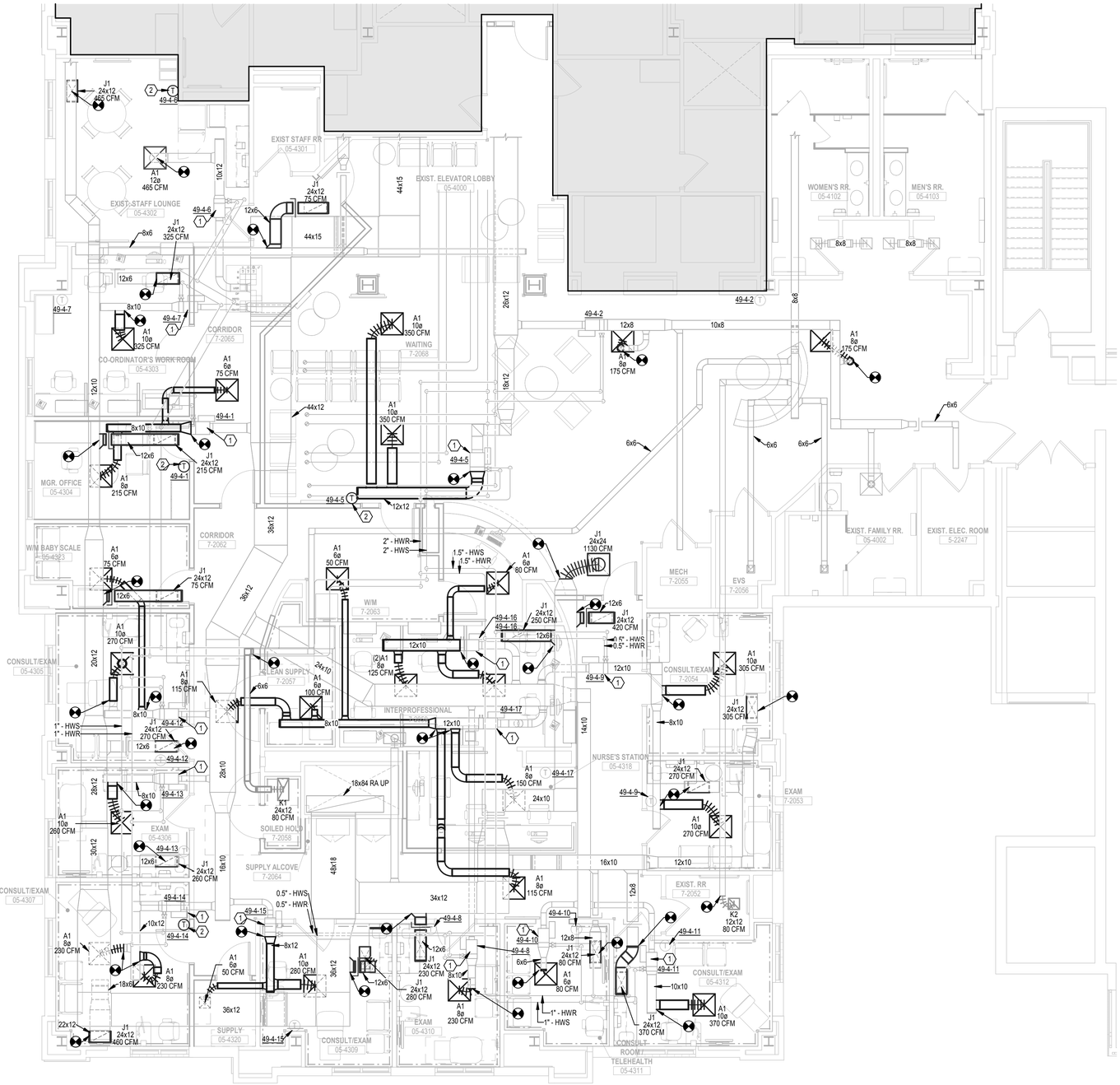
SHEET NO.
MD100

7/16/2025 11:16:39 AM

ISSUED FOR CONSTRUCTION

PLAN NOTES

1. EXISTING TO REMAIN VAV BOX. REFER TO SCHEDULE FOR AIR AND WATER REBALANCING.
2. NEW LOCATION OF RELOCATED THERMOSTAT. EXTEND WIRING AS REQUIRED TO ACCOMMODATE NEW LOCATION.



1 **HVAC DUCTWORK PLAN LEVEL 4 - NEW WORK**
SCALE: 3/16" = 1'-0"

ISSUED FOR CONSTRUCTION

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OPC-4 GENETICS CLINIC

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Drawn By	VAF
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STATE OF OHIO — DEREK A. SHAW — E-87243 — REGISTERED PROFESSIONAL ENGINEER — 2025-07-15

DRAWING TITLE
HVAC DUCTWORK PLAN LEVEL 4 - NEW WORK

SHEET NO.
M101

7/16/2025 11:16:44 AM

ELECTRICAL SINGLE-LINE LEGEND

	CONDUIT & WIRE
	CONDUIT & WIRE TO BE REMOVED
	EXISTING CONDUIT & WIRE TO REMAIN
	INTEGRATED EQUIPMENT ENCLOSURE
	SWITCHBOARD ENCLOSURE
	BUSSING
(#)	FAULT CURRENT REFERENCE POINT
-,-,-,-W-,PH-	FEEDER WIRE SIZE SYMBOL SPECIAL CONFIGURATION: 2P=TWO POLE NO NEUTRAL, S=SECONDARY, SE=SERVICE ENTRANCE, V=VOLTAGE DROP # OF PHASES # OF CONDUCTORS FEEDER AMPERAGE MATERIAL, A=ALUMINUM, C=COPPER
N E	AUTOMATIC TRANSFER SWITCH
E N	AUTOMATIC TRANSFER SWITCH - BYPASS
	DELTA SYMBOL
	DISCONNECT
M	ELECTRIC METER
A	EQUIPMENT AMMETER
	EQUIPMENT CAPACITOR
	EQUIPMENT CONTACTOR
	EQUIPMENT CURRENT TRANSFORMER
	EQUIPMENT GROUND
M	EQUIPMENT MULTIMETER
	EQUIPMENT POTENTIAL TRANSFORMER
SWBD METERING	EQUIPMENT SWITCHBOARD METER
	EQUIPMENT WYE SIDE OF TRANSFORMER WITH GROUND
	FUSED CUTOUT
	FUSED SWITCH - PRIMARY
	FUSED SWITCH - SECONDARY
	MOTOR
	MOTOR STARTER
	MOTOR STARTER AND DISCONNECT
	PANELBOARD - MAIN LUG ONLY
	PANELBOARD - MAIN BREAKER
	PANELBOARD BREAKER
	SHORT CIRCUIT FAULT LOCATION
	SINGLE POLE SWITCH
	SURGE PROTECTIVE DEVICE
	TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE
	VOLTAGE TERMINATION - PRIMARY
● OR •	VOLTAGE TERMINATION - SECONDARY

ELECTRICAL SYMBOLS

3 S	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
3 S	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	SQUARE DEVICE INDICATES A CONNECTION TO CRITICAL POWER. SPECIFICATION IS SAME AS RESPECTIVE ROUND DEVICE.
	ELECTRICAL CONNECTION.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE). WHEN ⏻ SHOWN, RECEPTACLE TO HAVE "CONTROLLED" MARKINGS.
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH. (18" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH 2 INTEGRAL USB CHARGERS (18" MH UNLESS NOTED OTHERWISE).
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
WP	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.
WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.
T	20A-125V POWERLOCK GROUNDING TYPE RECEPTACLE, HOSPITAL USE (66" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX PEDESTAL TYPE FLOOR RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLOOR BOX WITH SA-2525 COVERPLATE AND SC-3091 HOUSING. PROVIDE CARPET FLANGE WHERE REQUIRED.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLUSH FLOOR BOX WITH ROUND SA-3925 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
IG	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
20A	20A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE).
20A	20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE).
60A	50A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE).
J J	JUNCTION BOX. SQUARE DEVICE INDICATES A CONNECTION TO CRITICAL POWER.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).
	WIREMOLD RACEWAY, AS NOTED ON PLANS.
C	CLOCK HANGER OUTLET, SINGLE NEMA 5-15R RECESSED IN COVER PLATE (84" MH UNLESS NOTED OTHERWISE).
$	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
2 $	TWO POLE WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
# $	MULTI-WAY WALL SWITCH, # INDICATES NUMBER OF WAYS (46" MH UNLESS NOTED OTHERWISE).
P $	SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
K $	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
L $	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
DM $	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED.
R $	SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) STANDARD TWO-GANG ASSEMBLY OF SWITCH AND RECEPTACLE.
M $	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
H $	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.
P/B	PULL BOX.
J	DISCONNECT SWITCH.
	MOTOR STARTER.
J	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL.
AC	AIR CONDITIONER.
CU	CONDENSING UNIT.
UV	UNIT VENTILATOR.
CR	CORD REEL.
PP	POWER POLE.
T	LINE VOLTAGE THERMOSTAT.
H DH	DUCT HEATER.
H EB	ELECTRIC BASEBOARD HEATER.
M	INTERCOM SYSTEM DESK MOUNTED MASTER CONTROL STATION. SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE).
I	INTERCOM STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
H	INTERCOM HORN TYPE SPEAKER (84" MH UNLESS NOTED OTHERWISE).
S	INTERCOM SPEAKER FLUSH MOUNT IN CEILING.
	PUSHBUTTON (46" MH UNLESS NOTED OTHERWISE) EDWARDS 852 (120 VOLT).
	BUZZER (90" MH UNLESS NOTED OTHERWISE) EDWARDS 340-A (120 VOLT).
B	4" DIAMETER (90" MH UNLESS NOTED OTHERWISE) EDWARDS "ADAPTABEL" (120 VOLT).
	ELAPSED TIME INDICATOR CLOCK (90" MH UNLESS NOTED OTHERWISE) WITH RESET SWITCH (46" MH UNLESS NOTED OTHERWISE).
PC	PHOTOELECTRIC SENSOR.
LC	LIGHTING CONTACTOR.
OS	CEILING MOUNTED OCCUPANCY SENSOR.
OS	WALL MOUNTED OCCUPANCY SENSOR.
VS	CEILING MOUNTED VACANCY SENSOR.
VS	WALL MOUNTED VACANCY SENSOR.
DS	CEILING MOUNTED DAYLIGHT SENSOR.
OP	OCCUPANCY SENSOR POWER PACK.

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL.
RAP	REMOTE ANNUNCIATOR PANEL.
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL.
ASSD	AIR SAMPLING SMOKE DETECTOR BASE UNIT.
15 F	FIRE ALARM SPEAKER & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM BELL & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM CHIME & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM HORN & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
PW	FIRE ALARM BELL (88" AFF UNLESS NOTED OTHERWISE). SUBSCRIPT "W" INDICATES EXTERIOR WEATHERPROOF UNIT.
15 F	FIRE ALARM SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
S 15 F	CEILING MOUNTED FIRE ALARM SPEAKER & SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	CEILING MOUNTED FIRE ALARM SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
S C	CEILING MOUNTED FIRE ALARM SPEAKER.
R S	SURFACE MOUNTED FIRE ALARM SPEAKER (88" AFF). SUBSCRIPT "R" INDICATES RECESSED MOUNTING.
F K	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S S/R	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
H S/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
B T/R	BEAM DETECTOR. SUBSCRIPT "T" INDICATES TRANSMITTER FUNCTION. SUBSCRIPT "R" INDICATES RECEIVER FUNCTION.
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
FS	WATER FLOW SWITCH.
V	VALVE SUPERVISORY SWITCH.
W R	CEILING MOUNTED REMOTE TEST STATION AND ALARM INDICATOR LIGHT FOR DUCT DETECTOR. SUBSCRIPT "W" INDICATES WALL MOUNTED.
SD	SMOKE DAMPER.
FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
PS	PRESSURE SWITCH.
AM C/I	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
PIV	POST INDICATOR VALVE.
K S	KNOX BOX (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "S" INDICATES SUPERVISED UNIT.
A	AIR SAMPLING SMOKE DETECTOR SAMPLING PORT.

LUMINAIRE SYMBOLS

A a	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
	LIGHTING FIXTURE ON CRITICAL CIRCUIT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED, EGRESS LIGHT PACK AS INDICATED.

NOTE:
ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.
ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E001	LEGEND, INDEX, & GENERAL NOTES
E002	SINGLE LINE, SCHEDULES, & SPECIFICATIONS
E003	PANEL SCHEDULES
E101	PARTIAL FOURTH FLOOR - LIGHTING - NEW WORK
E102	PARTIAL FOURTH FLOOR - POWER & FIRE ALARM - NEW WORK
ED101	PARTIAL FOURTH FLOOR - ELECTRICAL - DEMOLITION
Total Count: 6	

ABBREVIATIONS

AAP	- AREA ALARM PANEL - MEDICAL GAS	HC	- HVAC CONTRACTOR (DIVISION 23)
ACC	- ACCESS	HP	- HORSE POWER OR HIGH POINT
ADJ	- ADJUSTABLE	HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING
AF	- ARC FAULT CIRCUIT INTERRUPTER		
AFCI	- ARC FAULT CIRCUIT INTERRUPTER	ID	- INSIDE DIAMETER
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM	IN	- INCHES
AFG	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM		
ALT	- ALTERNATE	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AP	- ACCESS PANEL		
APPROX	- APPROXIMATE	L	- LENGTH
ARCH	- ARCHITECT OR ARCHITECTURAL	LBS	- POUNDS
ASSY	- ASSEMBLY		
ATS	- AUTOMATIC TRANSFER SWITCH	MAP	- MASTER ALARM PANEL (MEDICAL GAS)
		MAX	- MAXIMUM
BLDG	- BUILDING	MEZZ	- MEZZANINE
BOE	- BOTTOM OF EQUIPMENT	MFR	- MANUFACTURER
BOT	- BOTTOM	MH	- MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
BTWN	- BETWEEN	MIN	- MINIMUM OR MINUTE
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MISC	- MISCELLANEOUS
CKT	- CIRCUIT	MTD	- MOUNTED
CLG	- CEILING	MTG	- MOUNTING
CMU	- CONCRETE MASONRY UNIT		
CONN	- CONNECT OR CONNECTION	NIC	- NOT IN CONTRACT
CONTR	- CONTRACTOR	NOM	- NOMINAL
CORR	- CORRIDOR	NTS	- NOT TO SCALE
CTR	- CENTER		
		OD	- OUTSIDE DIAMETER
D	- DEPTH	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
DET	- DETAIL	OFOI	- OWNER FURNISHED OWNER INSTALLED
DIA	- DIAMETER		
DIM	- DIMENSION	PC	- PLUMBING CONTRACTOR (DIVISION 22)
DIV	- DIVISION	PLBG	- PLUMBING
DN	- DOWN		
DWG	- DRAWING	RAD	- RADIUS
		REC	- RECESSED
EA	- EACH	REQD	- REQUIRED
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	RI	- ROUGH-IN
EJ	- EXPANSION JOINT		
ELEC	- ELECTRICAL	S	- SURFACE MOUNTED
ELEV	- ELEVATION OR ELEVATOR	SC	- SECURITY CONTRACTOR
EM	- EMERGENCY	SCH	- SCHEDULE
EQ	- EQUAL	SHT	- SHEET
EQS	- EQUIPMENT SUPPLIER	SMS	- SECURITY MANAGEMENT SYSTEM
EQUIP	- EQUIPMENT	SPEC	- SPECIFICATIONS
E/R	- EXISTING TO BE RELOCATED	SQ	- SQUARE
EX	- EXISTING TO REMAIN	SS	- STAINLESS STEEL
EXP	- EXPANSION	STD	- STANDARD
EXT	- EXTERIOR	STRUC	- STRUCTURAL OR STRUCTURE
		SUC	- SITE UTILITY CONTRACTOR
FCE	- FIRE CONTROL EQUIPMENT		
FF	- FINISHED FLOOR ELEVATION	TC	- TECHNOLOGY CONTRACTOR
FLR	- FLOOR	TEMP	- TEMPERATURE
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	TOE	- TOP OF EQUIPMENT
FT	- FEET	TYP	- TYPICAL
FTG	- FOOTING		
		UNO	- UNLESS NOTED OTHERWISE
GC	- GENERAL CONTRACTOR		
GF	- GROUND FAULT CIRCUIT INTERRUPTER	VFD	- VARIABLE FREQUENCY DRIVE
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED	VOL	- VOLUME
GFFT	- GROUND FAULT FEED THRU	W/	- WITH
		W/O	- WITHOUT
		WP	- WEATHERPROOF
		ZVC	- ZONE VALVE CABINET

GENERAL FLOOR PLAN NOTES

B E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
T2 1	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
3	LIGHTING CONTROL DETAIL NOTE. APPLIES TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE FOR ROOM CONTROL.
3	DEVICE QUANTITY - POWER NOTE. REFER TO DEVICE QUANTITIES - POWER SCHEDULE.
	LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
4"	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
4"C	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
4"	CONDUIT TO BE REMOVED.
EX	EXISTING WIRE & CONDUIT TO REMAIN.
DAT	CONDUIT FOR DATA CIRCUITRY.
EM	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
FA	WIRE & CONDUIT FOR FIRE ALARM CIRCUITRY.
I	WIRE & CONDUIT FOR INTERCOM SYSTEM CIRCUITRY.
NC	WIRE & CONDUIT FOR NURSE CALL CIRCUITRY.
NL	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
PHO	CONDUIT FOR PHONE CIRCUITRY.
S	WIRE & CONDUIT FOR SOUND SYSTEM CIRCUITRY.
SEC	WIRE & CONDUIT FOR SECURITY SYSTEM CIRCUITRY.
TV	WIRE & CONDUIT FOR TELEVISION SYSTEM CIRCUITRY.
W	WIRE RUN IN SURFACE WIREWAY.
CM	CABLE MANAGEMENT SYSTEM PATHWAY.
X - 1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By BMW
Checked By JHS
Client Number
Project Number 6981-12

STATE OF OHIO — REGISTERED PROFESSIONAL ENGINEER — RONALD R. RADABAUGH — 66095 — 7/16/2025

DRAWING TITLE
LEGEND, INDEX, & GENERAL NOTES

SHEET NO.
E001

7/16/2025 3:18:15 PM

ISSUED FOR CONSTRUCTION

ELECTRICAL SPECIFICATIONS (DIV 26)

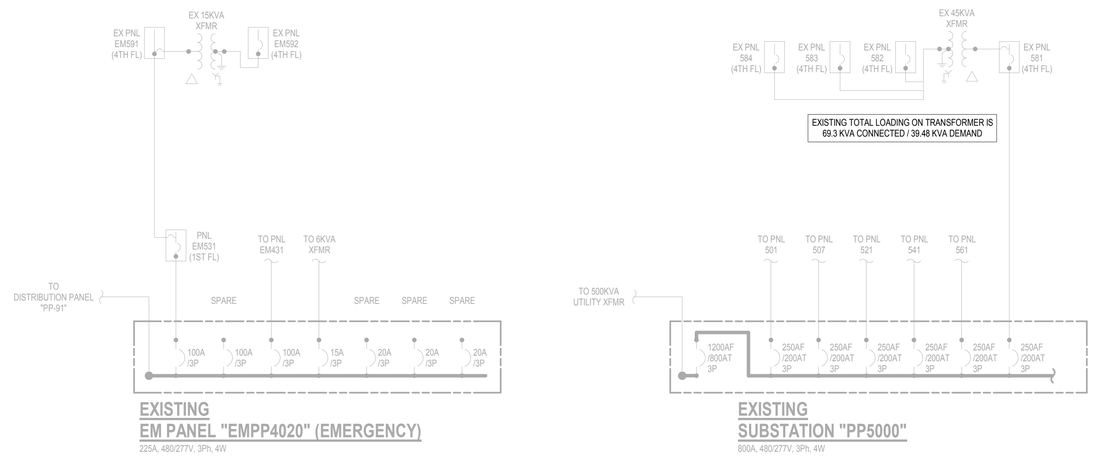
ELECTRICAL SPECIFICATIONS (DIVISION 26)

1. PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING PRINCIPAL CATEGORIES:
   A. WIRING DEVICES.
   B. POWER WIRING.
   C. MISCELLANEOUS WIRING AND INTERLOCKS.
   D. EQUIPMENT CONNECTIONS.
   E. LIGHTING FIXTURES.
2. OBTAIN AND PAY FOR ALL PERMITS. UPON COMPLETION, PROVIDE A CERTIFICATE OF APPROVAL FROM THE GOVERNING INSPECTION AUTHORITY. ALL WORK SHALL COMPLY WITH NEC, OHIO BUILDING CODE AND OTHER APPLICABLE LAWS AND ORDINANCES.
3. DURING THE BIDDING PERIOD, INSPECT THE SITE AND PREMISES OF PROPOSED WORK. REPORT IMMEDIATELY ANY SIGNIFICANT OBSERVED DISCREPANCIES AS RELATED TO THE PLANS OR REQUIRED WORK.
4. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, EQUIPMENT, AND MATERIAL ENTERING INTO THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. ANY WORK PROVEN TO BE DEFECTIVE DURING THIS PERIOD SHALL BE MADE GOOD BY THIS CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
5. WHERE TRADE NAMES, BRANDS OR MANUFACTURERS ARE LISTED, ANY ONE OF THE SEVERAL NAMED ARE CONSIDERED EQUALLY ACCEPTABLE. NO UNNAMED PRODUCT OR MATERIAL SHALL BE USED UNLESS IT IS LISTED AS A SUBSTITUTE DURING BIDDING, WITH STATED CHANGE IN COST, AND APPROVED IN WRITING BY THE ARCHITECT OR ENGINEER PRIOR TO PLACEMENT OF ORDERS. SUBMIT ELECTRONIC SHOP DRAWINGS ON MAJOR ITEMS OF EQUIPMENT AND MATERIALS. THE REVIEW OF SHOP DRAWINGS BY THE ARCHITECT OR ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN THE SHOP DRAWINGS.
   A. AS EACH ELECTRICAL SYSTEM IS COMPLETED, IT SHALL BE TESTED TO ASSURE FREEDOM FROM GROUND AND THAT REQUIRED FUNCTIONS ARE PERFORMED. WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL INSPECTION AGENCY HAVING JURISDICTION. PERFORM SPECIAL RESISTANCE TESTS WHEN REQUESTED BY THE INSPECTION AGENCY OR ENGINEER TO PROVE THE SYSTEM'S INTEGRITY. FURNISH TO THE OWNER, THRU THE ARCHITECT, A FINAL INSPECTION CERTIFICATE.
   B. DEMONSTRATE FUNCTIONS PERFORMED BY DEVICES AND SYSTEMS TO THE OWNER'S REPRESENTATIVE. FURNISH TO THE OWNER DATA SHEETS INDICATING NATURE AND FREQUENCY OF MAINTENANCE REQUIRED FOR SWITCHES, DEVICES AND EQUIPMENT. ASSEMBLE AND DELIVER ELECTRONIC COPIES OF THIS DATA.
6. PLAN WORK TO PROVIDE REASONABLE CONTINUOUS SERVICE OF EXISTING SYSTEMS. SHUTDOWN OF SYSTEMS SHALL BE BID AS OUTSIDE OF NORMAL WORKING HOURS.
7. WORKMANSHIP SHALL BE FIRST CLASS. THE ARCHITECT'S JUDGMENT SHALL PREVAIL IF THE QUALITY IS SUSPECT.
8. PROTECT MATERIALS AND EQUIPMENT AFTER DELIVERY TO THE JOB SITE. RESPECT OTHER TRADES AS RELATED TO PROTECTING THEIR WORK AND TO AVOID CONSTRUCTION INTERFERENCES. CALL ATTENTION TO PROBLEMS RELATING TO SPACE REQUIREMENTS SO EARLY RESOLUTION MAY BE OBTAINED. RESPECT THE OWNER'S PROPERTY AT ALL TIMES. TEMPORARILY REMOVE, STORE AND RE-INSTALL CEILINGS WHEN REQUIRED TO PERFORM WORK.
9. CUT AND PATCH TO INSTALL WORK WHERE FAILURE TO INSTALL SLEEVES OCCURS, OR PAY OTHERS TO PERFORM SUCH WORK. THIS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL OF HIS OWN CUTTING AND PATCHING OF FLOORS AND WALLS WHERE NECESSARY TO INSTALL ELECTRICAL EQUIPMENT. CONCRETE SHALL BE SAW CUT, NEATLY AND ACCURATELY. NECESSARY HOLES SHALL BE CORE DRILLED. PATCHING SHALL BE DONE TO MATCH BOTH THICKNESS AND FINISH OF EXISTING ADJACENT MATERIAL. GENERAL CONTRACTOR SHALL DO ALL PATCHING WORK, PAID FOR BY THE ELECTRICAL CONTRACTOR.
10. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING WORK WHICH IS KINDRED TO HIS TRADE AND WHICH WILL BE SUPERFLUOUS WHEN THE NEW SYSTEM IS INSTALLED. COOPERATE WITH THE GENERAL CONTRACTOR AND REMOVE EXISTING UNUSED CONDUIT TO BEHIND WALLS OR BELOW FLOORS AS NECESSARY OR AS DIRECTED. UPON COMPLETION NO UNUSED CONDUIT OR STUB, OR JUNCTION BOX SHALL EXTEND THRU FLOORS, WALLS OR CEILINGS. ABANDONED CONDUIT WHERE REMAINING IN PLACE SHALL HAVE ALL UNUSED WIRING REMOVED. MATERIAL AND EQUIPMENT WHICH IS REMOVED SHALL NOT BE REUSED IN THIS PROJECT.
11. EACH CONTRACTOR SHALL MAINTAIN A SEPARATE SET OF AS-BUILT PRINTS OF THE CONTRACT DOCUMENTS AND SHALL SHOW ANY SIGNIFICANT CHANGES OR VARIATIONS WHICH ARE MADE DURING CONSTRUCTION. UPON COMPLETION OF THE WORK, THESE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT.
12. PROVIDE UL TESTED FIRESTOP MATERIALS AT ALL BUILDING PENETRATIONS OF CONDUIT, CABLES, ETC.
13. ALL CONDUCTORS SHALL BE COPPER. MINIMUM SIZE #12 AWG FOR BRANCH CIRCUITS; # 14 AWG FOR CONTROL CIRCUITS, AND INSULATED FOR 600 VOLT, TYPE THWN, XHHW, OR THHN, SUBJECT TO MOISTURE AND HEAT LIMITATIONS STATED IN CODE. USE ONLY THHN, OR XHHW CONDUCTORS FOR CONNECTIONS TO LIGHTING FIXTURES.
14. THE BUILDING NEUTRAL SHALL BE IDENTIFIED THROUGHOUT BY A WHITE CONDUCTOR. WORK INCLUDES GROUNDING OF SYSTEM NEUTRAL, EQUIPMENT AND CONDUIT SYSTEMS TO CONFORM TO NEC. RUN GREEN GROUND COPPER CONDUCTOR IN ALL CONDUITS.
15. CONDUIT SHALL BE USED FOR ALL WIRING, MINIMUM SIZE OF 0.75". CONDUIT SYSTEMS MAY BE ANY ONE OR COMBINATION OF THE FOLLOWING, WITHIN RESTRICTING LIMITS INDICATED. CONDUIT TYPES NOT LISTED SHALL NOT BE USED.
   A. THINWALL EMT CONDUIT WITH APPROVED CONNECTOR FITTINGS TO ASSURE GROUNDING CONTINUITY, SUBJECT TO THE FOLLOWING RESTRICTIONS: (NOT TO BE USED IN)
      1. NOT EXPOSED BELOW 96".
   B. FLEXIBLE METAL CONDUIT (GREENFIELD TYPE) GALVANIZED. USE RESTRICTED TO THE FOLLOWING APPLICATIONS:
      1. CONNECTIONS TO LIGHTING FIXTURES, MAXIMUM LENGTH 6 FT.
   C. LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH WATER TIGHT OIL RESISTANT OUTER PVC COVERING. USE REQUIRED:
      1. CONNECTIONS TO MOTORS OR CONTROLS ON DYNAMIC EQUIPMENT.
16. CONDUIT FITTINGS SHALL BE MANUFACTURED BY EFCOR, STEEL CITY, RACO, MIDWEST, ETP OR T&B.
   A. THE METALLIC CONDUIT SYSTEM SHALL BE USED AS THE EQUIPMENT GROUNDING SYSTEM, IN ADDITION TO A GROUND CONDUCTOR:
      1. EMT - FITTINGS SHALL BE ALL STEEL SET-SCREW TYPE.
      2. FLEXIBLE CONDUIT - MALLEABLE IRON, "SQUEEZE" TYPE.
17. DEVICE AND JUNCTION BOXES GALVANIZED STEEL, CODE GAUGE AND SIZE BY STEEL CITY, RACO, APPLETON OR R&S. BOXES CONNECTING MORE THAN ONE PAIR OF CONDUCTORS TO BE MINIMUM 4" X 4", OR 4" OCTAGONAL SIZE. USE ADAPTER PLATES FOR DEVICES WHERE NUMBER OF CONNECTIONS OR OTHER CONDITIONS DICTATES.
18. RUN CONDUITS AGAINST UNDERSIDE OF CONCRETE STRUCTURE OR AGAINST TOP CHORD OF JOISTS OR TRUSSES, WHETHER EXPOSED OR CONCEALED. IN NO CASE SHALL CONDUIT BE RUN IMMEDIATELY ABOVE ACCESSIBLE CEILINGS. USE ONLY METALLIC CONNECTORS AND FASTENERS.
19. IDENTIFY THE FOLLOWING: PANELBOARD SWITCHES AND BREAKERS, INDICATING SERVICE; DISCONNECT SWITCHES AND MOTOR STARTERS; LABEL BRANCH CIRCUIT PANELS, SAME DESIGNATION AS SHOWN ON THE DRAWINGS, AND TYPE IN THE PANELBOARD CIRCUIT DIRECTORIES INDICATING THE TYPE LOAD AND GENERAL LOCATION. USE ENGRAVED, LAMINATED PLASTIC PLATES FOR LABELING SWITCHES AND PANELBOARDS.
20. MISCELLANEOUS ITEMS OF EQUIPMENT REQUIRE WIRING CONNECTIONS AS SHOWN. FURNISH POWER AND CONTROL SOURCES FOR THESE AS SHOWN. OBTAIN ROUGH-IN DRAWINGS AND INFORMATION ON FURNISHED CONTROLS FROM THE EQUIPMENT SUPPLIER. PLACE DISCONNECTS AND CONNECTION BOXES IN AN INCONSPICUOUS BUT ACCESSIBLE LOCATION. COORDINATE LOCATIONS WITH EQUIPMENT SUPPLIER AND THE ARCHITECT.
21. WIRING DEVICES AND GROUND FAULT INTERRUPTERS BY COOPER, BRYANT, HUBBELL, LEVITON OR P&S, EQUAL TO CATALOG NUMBERS SHOWN ON THE DRAWINGS. WALL PLATES
22. DISCONNECT SWITCHES HEAVY DUTY, NEMA1 WITH LOCKING DEVICES, FUSED WHERE USED TO PROTECT CIRCUIT WIRING BY SQUARE D, SIEMENS, G.E. OR EATON.
23. REFER TO THE DRAWINGS FOR INFORMATION ON LUMINAIRES AND MANUFACTURERS. ALL FIXTURES SHALL BE NEW AND U.L. LABELED.
24. PROVIDE EXTENSION OF THE FIRE ALARM SYSTEM AS REQUIRED TO ACCOMMODATE ALL NEW FIRE ALARM DEVICES AND EQUIPMENT FOR THE RENOVATED SPACE. ALL LABOR, MATERIALS, AND PROGRAMMING OF THE SYSTEM AND DEVICES REQUIRED FOR THE WORK SHALL BE INCLUDED. A FACTORY AUTHORIZED REPRESENTATIVE SHALL ASSEMBLE AND PRODUCE FULL SHOP DRAWINGS INDICATING PROPOSED WORK.
25. THE FIRE ALARM SYSTEM AND INSTALLATION SHALL BE IN COMPLIANCE WITH LOCAL, CITY, STATE, NFPA, ADAAG AND IBC CODES.
26. FIRE ALARM COMPONENTS TO MATCH EXISTING. REPROGRAM SYSTEM FOR DEMOLITION AND NEW WORK.
27. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, AFTER THE ARCHITECT'S AND ENGINEER'S REVIEW, TO THE STATE FIRE MARSHAL'S OFFICE WHERE APPLICABLE FOR THEIR REVIEW AND APPROVAL.
28. UPON COMPLETION AND BEFORE ACCEPTANCE, SYSTEM PERFORMANCE SHALL BE DEMONSTRATED IN THE PRESENCE OF THE ARCHITECT. VERIFY BUILDING AREAS AND DEVICE LABELING IDENTIFICATION WITH THE OWNER PRIOR TO FINALIZATION.
29. SYSTEM SHALL BE TESTED BY AND A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY A QUALIFIED MANUFACTURER'S REPRESENTATIVE OR EQUIPMENT VENDOR; SUBMIT REPORT INDICATING RESULTS TO THE ARCHITECT.
30. WARRANT ALL WORKMANSHIP, EQUIPMENT, MATERIAL AND SOFTWARE ENTERING INTO THIS CONTRACT FOR A PERIOD OF THREE (3) YEARS FROM DATE OF FINAL ACCEPTANCE OR DATE OF BENEFICIAL USE, AS AGREED TO BETWEEN CONTRACTOR AND ARCHITECT.

LUMINAIRES

NOTES:
1. PROVIDE FLANGE OR GRID MOUNTING AS APPROPRIATE FOR CEILING TYPE. SEE ARCHITECTURAL RCP.
2. PROVIDE WALL OR CEILING MOUNT AS INDICATED ON PLANS.

MARK	LAMPS: VA / LINEAR FOOT	LAMPS: DELIVERED LUMENS	LAMPS: COLOR	LOAD (VA)	FIXTURE VOLTAGE	MANUFACTURER	CATALOG NO.	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	DIFFUSING MEDIA	TRIM COLOR: WHITE	TRIM COLOR: BLACK	TRIM COLOR: ALUMINUM	TRIM COLOR: BRONZE	TRIM COLOR: STANDARD	TRIM COLOR: SEE NOTE	MOUNTING: S-SURFACE R-RECESSED SM-STEM MTD WM-WALL MTD C-CHAIN MTD UC-UNDER CAB CS-CEIL SURFACE	MOUNTING: SEE NOTE
A1		3400	4000K	27	277	LITHONIA	CPANL - 2X2 - ALO1 - SWW7 - M4	2' x 2' RECESSED LED TROFFER	HE WILLIAMS, COOPER	RIBBED, DIFFUSE	•						R	1
A2		4000	4000K	32	277	LITHONIA	CPANL - 2X4 - ALO1 - SWW7 - M4	2' x 4' RECESSED LED TROFFER	HE WILLIAMS, COOPER	RIBBED, DIFFUSE	•						R	1
D1		3000	4000K	30	277	GOTHAM	EV06 - 40/30 - AR - LSS - MWD - MVOLT - GZI	6" RECESSED LED DOWNLIGHT	HE WILLIAMS, COOPER	CLEAR	•						R	1
L1	16	3000	4000K	<VARIES>	277	NULITE	RG2 - D - STR - 09 - L40 - UNV - D - 11 - WH - 6	RECESSED LED LINEAR							•			
X1				5	277	MILLENIUM METERX	METSW - MW - R - DT	SINGLE FACE EXIT SIGN	NONE						•			2
X2				5	277	ISOLITE	UEL - AC - R - 1C2M - MTEBR	SINGLE FACE EXIT SIGN	NONE						•			2
X3				5	277	ISOLITE	UEL - AC - R - 1C2M - MTEBR	DOUBLE FACE EXIT SIGN	NONE						•			2



1 **SINGLE LINES - EXISTING**
SCALE: NONE

CHAMPLIN ARCHITECTURE

EOP architecture | interiors

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By BMW
Checked By JHS
Client Number
Project Number 6981-12

STATE OF OHIO — REGISTERED PROFESSIONAL ENGINEER — RONALD R. SADABAUGH — E-66095

DRAWING TITLE
SINGLE LINE, SCHEDULES, & SPECIFICATIONS

SHEET NO.
E002

7/16/2025 3:18:17 PM

ISSUED FOR CONSTRUCTION

Panel: EM591 EXISTING (EMERGENCY)

Location: EXIST. ELEC. ROOM 5-2247 **Mounting:** SURFACE **A.I.C. Rating:** EXISTING
Supply From: **Enclosure:** TYPE 1 **Mains Type:** MLO
Voltage: 480Y/277V-3PH-4W **Mains Rating:** 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	1433...	1	20 A	***LIGHTING***	6
7	SPACE	--	1	--	--					1	--	SPACE	8
9	SPACE	--	1			--	--			1	--	SPACE	10
11	SPACE	--	1					--	--	1	--	SPACE	12
13	SPACE	--	1	--	720 VA					3	30 A	T-EM592	14
15	SPACE	--	1			--	540 VA			--	--	--	16
17	SPACE	--	1					--	360 VA	--	--	--	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
	Total Load:			0.72 kVA		0.54 kVA		1.79 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	1433 VA	125.00%	1791 VA		
Receptacle	1620 VA	100.00%	1620 VA	**Total Conn. Load:**	3.05 kVA
				Total Est. Demand:	3.41 kVA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes: 1. ALL BREAKERS ARE EXISTING.

TOTAL CONNECTED		ESTIMATED DEMAND
3.05 kVA		3.41 kVA (4 A)

Panel: EM592 EXISTING (EMERGENCY)

Location: EXIST. ELEC. ROOM 5-2247 **Mounting:** SURFACE **A.I.C. Rating:** EXISTING
Supply From: T-EM592 **Enclosure:** TYPE 1 **Mains Type:** MCB
Voltage: 208Y/120V-3PH-4W **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	***REC - EXAM CHAIRS***	20 A	1	360 VA	0 VA					1	20 A	SPARE	2
3	***REC - EXAM CHAIRS***	20 A	1			540 VA	0 VA			1	20 A	SPARE	4
5	***REC - EXAM CHAIRS***	20 A	1					360 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	360 VA					1	20 A	RECEPTACLE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
	Total Load:			0.72 kVA		0.54 kVA		0.36 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Receptacle	1620 VA	100.00%	1620 VA		
				Total Conn. Load:	1.62 kVA
				Total Est. Demand:	1.62 kVA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes: 1. ALL BREAKERS ARE EXISTING.

TOTAL CONNECTED		ESTIMATED DEMAND
1.62 kVA		1.62 kVA (4 A)

Panel: 581 EXISTING (NORMAL)

Location: EXIST. ELEC. ROOM 5-2247 **Mounting:** SURFACE **A.I.C. Rating:** EXISTING
Supply From: **Enclosure:** TYPE 1 **Mains Type:** MLO
Voltage: 480Y/277V-3PH-4W **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	1110...			1	20 A	***LIGHTING***	4
5	SPARE	20 A	1					0 VA	864 VA	1	20 A	***LIGHTING***	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	***LIGHTING***	20 A	1			992 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPARE	20 A	3	0 VA	1150...					3	70 A	T-582	26
27	--	--	--			0 VA	1264...			--	--	--	28
29	--	--	--					0 VA	1018...	--	--	--	30
31	EF82	20 A	3	667 VA	--					1	--	SPACE	32
33	--	--	--			667 VA	--			1	--	SPACE	34
35	--	--	--					667 VA	--	1	--	SPACE	36
37	EF83	20 A	3	667 VA	--					1	--	SPACE	38
39	--	--	--			667 VA	--			1	--	SPACE	40
41	--	--	--					667 VA	--	1	--	SPACE	42
	Total Load:			12.83 kVA		16.08 kVA		12.38 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Lighting	2966 VA	125.00%	3708 VA		
Motor	4000 VA	112.50%	4500 VA	**Total Conn. Load:**	41.29 kVA
Other	180 VA	100.00%	180 VA	**Total Est. Demand:**	33.06 kVA
Receptacle	28940 VA	67.28%	19470 VA	**Total Conn.:**	50 A
Spare	5200 VA	100.00%	5200 VA	**Total Est. Demand:**	40 A

Notes: 1. ALL BREAKERS ARE EXISTING.

TOTAL CONNECTED		ESTIMATED DEMAND
41.29 kVA		33.06 kVA (40 A)

Panel: 582 EXISTING (NORMAL)

Location: EXIST. ELEC. ROOM 5-2247 **Mounting:** SURFACE **A.I.C. Rating:** EXISTING
Supply From: T-582 **Enclosure:** TYPE 1 **Mains Type:** MCB
Voltage: 208Y/120V-3PH-4W **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	180 VA					1	20 A	EX EWC	2
3	SPARE	20 A	1			0 VA	200 VA			1	20 A	EX ROOF	4
5	SPARE	20 A	1					0 VA	200 VA	1	20 A	EX ROOF	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	200 VA			1	20 A	EX DAMPER	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	800 VA					1	20 A	EX AHU	14
15	SPARE	20 A	1			0 VA	800 VA			1	20 A	EX AHU	16
17	***RECEPTACLE***	20 A	1					360 VA	0 VA	1	20 A	SPARE	18
19	***REC - BREAKROOM***	20 A	1	360 VA	0 VA					1	20 A	SPARE	20
21	***REC - ICEMAKER***	20 A	1			180 VA	0 VA			1	20 A	SPARE	22
23	***REC - BREAKROOM***	20 A	1					540 VA	0 VA	1	20 A	SPARE	24
25	***RECEPTACLE***	20 A	1	180 VA	0 VA					1	20 A	SPARE	26
27	***RECEPTACLE***	20 A	1			900 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	***MICROWAVE***	20 A	1	1500...	0 VA					1	20 A	SPARE	32
33	***GFI - REFRIGERATOR***	20 A	1			180 VA	0 VA			1	20 A	SPARE	34
35	***REC - BREAKROOM***	20 A	1					1000...	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	1500...			1	20 A	EX DRYER	40
41	SPARE	20 A	1					0 VA	1500...	1	20 A	EX DRYER	42
	Total Load:			3.02 kVA		3.96 kVA		3.60 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Other	180 VA	100.00%	180 VA		
Receptacle	5200 VA	100.00%	5200 VA	**Total Conn. Load:**	10.58 kVA
Spare	5200 VA	100.00%	5200 VA	**Total Est. Demand:**	10.58 kVA
				Total Conn.:	29 A
				Total Est. Demand:	29 A

Notes: 1. PROVIDE NEW GFI BREAKER FOR ALL CIRCUITS WITH 'GFI' IN LABEL.
2. ALL REMAINING BREAKERS ARE EXISTING.

TOTAL CONNECTED		ESTIMATED DEMAND
10.58 kVA		10.58 kVA (29 A)

Panel: 584 EXISTING (NORMAL)

Location: EXIST. ELEC. ROOM 5-2247 **Mounting:** SURFACE **A.I.C. Rating:** EXISTING
Supply From: T-582 **Enclosure:** TYPE 1 **Mains Type:** MCB
Voltage: 208Y/120V-3PH-4W **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	***REC - CONSULT/EXAM***	20 A	1	1220...	1220...					1	20 A	***REC - CONSULT/EXAM***	2
3	***REC - EXAM***	20 A	1			1400...	1220...			1	20 A	***REC - EXAM***	4
5	REC - RESTROOM	20 A	1					180 VA	1220...	1	20 A	***REC - CONSULT/EXAM***	6
7	***REC - CONSULT/EXAM***	20 A	1	1400...	1220...					1	20 A	***REC - CONSULT/EXAM***	8
9	***REC - CONSULT/TELE***	20 A	1			1040...	180 VA			1	20 A	REC - SUPPLY	10
11	***REC - EXAM***	20 A	1					1040...	360 VA	1	20 A	***REC - BABY SCALE RM***	12
13	***REC - WORKROOM***	20 A	1	720 VA	0 VA					1	20 A	SPARE	14
15	***REC - COPIER***	20 A	1			1000...	0 VA			1	20 A	SPARE	16
17	***REC - ...***	20 A	1					1080...	540 VA	1	20 A	***REC - NURSESTATION***	18
19	***REC - ...***	20 A	1	720 VA	720 VA					1	20 A	***REC - NURSESTATION***	20
21	***REC - WAITING***	20 A	1			180 VA	1760...			1	20 A	***REC - WAIT / CORR***	22
23	***REC - MEDIA TABLET***	20 A	1					180 VA	180 VA	1	20 A	***REC - MEDIA TABLET***	24
25	***REC - CHECK-IN***	20 A	1	720 VA	540 VA					1	20 A	REC - RESTROOMS	26
27	REC - GENERAL	20 A	1			900 VA	1000...			1	20 A	***REC - COPIER***	28
29	REC - WAITING	20 A	1					900 VA	900 VA	1	20 A	***REC - OFFICE***	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
	Total Load:			8.48 kVA		8.68 kVA		6.58 kVA					

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
Receptacle	23740 VA	71.06%	16870 VA		
				Total Conn. Load:	23.74 kVA
				Total Est. Demand:	16.87 kVA
				Total Conn.:	66 A
				Total Est. Demand:	47 A

Notes: 1. ALL BREAKERS ARE EXISTING.

TOTAL CONNECTED		ESTIMATED DEMAND
23.74 kVA		16.87 kVA (47 A)

ISSUED FOR CONSTRUCTION

CHAMPLIN ARCHITECTURE

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dayton children's

OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: BMW
Checked By: JHS
Client Number:
Project Number: 6981-12

STATE OF OHIO — DONALD R. BADABAUGH — E-66095 — PROFESSIONAL ENGINEER — 7/15/2025 — REGISTERED

DRAWING TITLE
PANEL SCHEDULES

SHEET NO.
E003

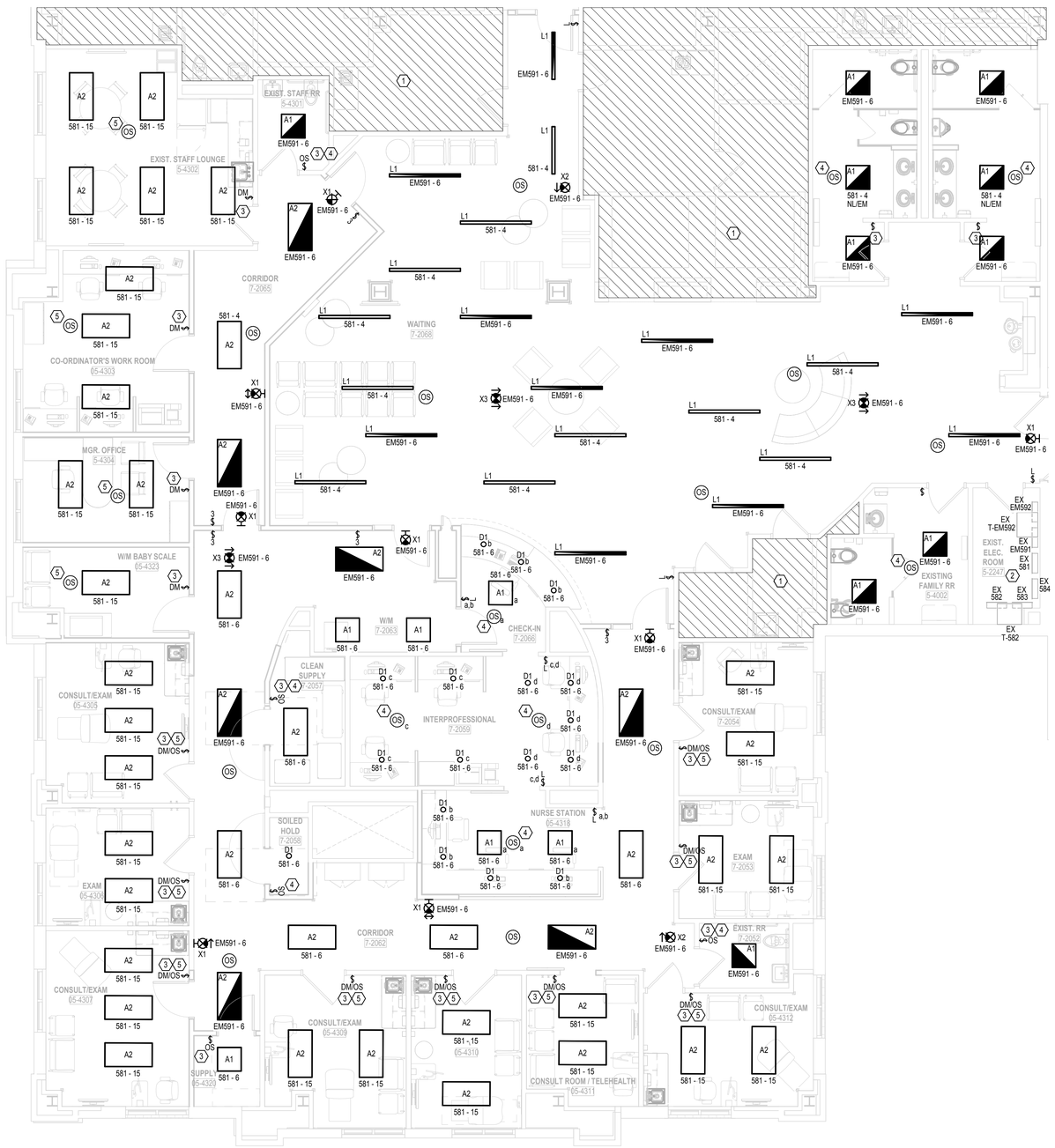
7/16/2025 3:18:19 PM

GENERAL NOTES:

A. REFER TO DRAWING E001 FOR LEGEND AND INDEX OF DRAWINGS.

⬡ PLAN NOTES

1. HATCHED AREA NOT IN SCOPE.
2. EXISTING LIGHTING IN ELECTRICAL ROOM TO REMAIN.
3. PROVIDE NEW SWITCH AT EXISTING LOCATION. REPLACE WIRING TO ABOVE CEILING IF NEUTRAL WIRE IS NOT CURRENTLY INSTALLED.
4. CONFIGURE LIGHTING CONTROLS TO BE OCCUPANCY TYPE.
5. CONFIGURE LIGHTING CONTROLS TO BE VACANCY TYPE.



1 **PARTIAL FOURTH FLOOR - LIGHTING - NEW WORK**
SCALE: 3/16" = 1'-0"

ISSUED FOR CONSTRUCTION

CHAMPLIN ARCHITECTURE

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dayton children's

OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

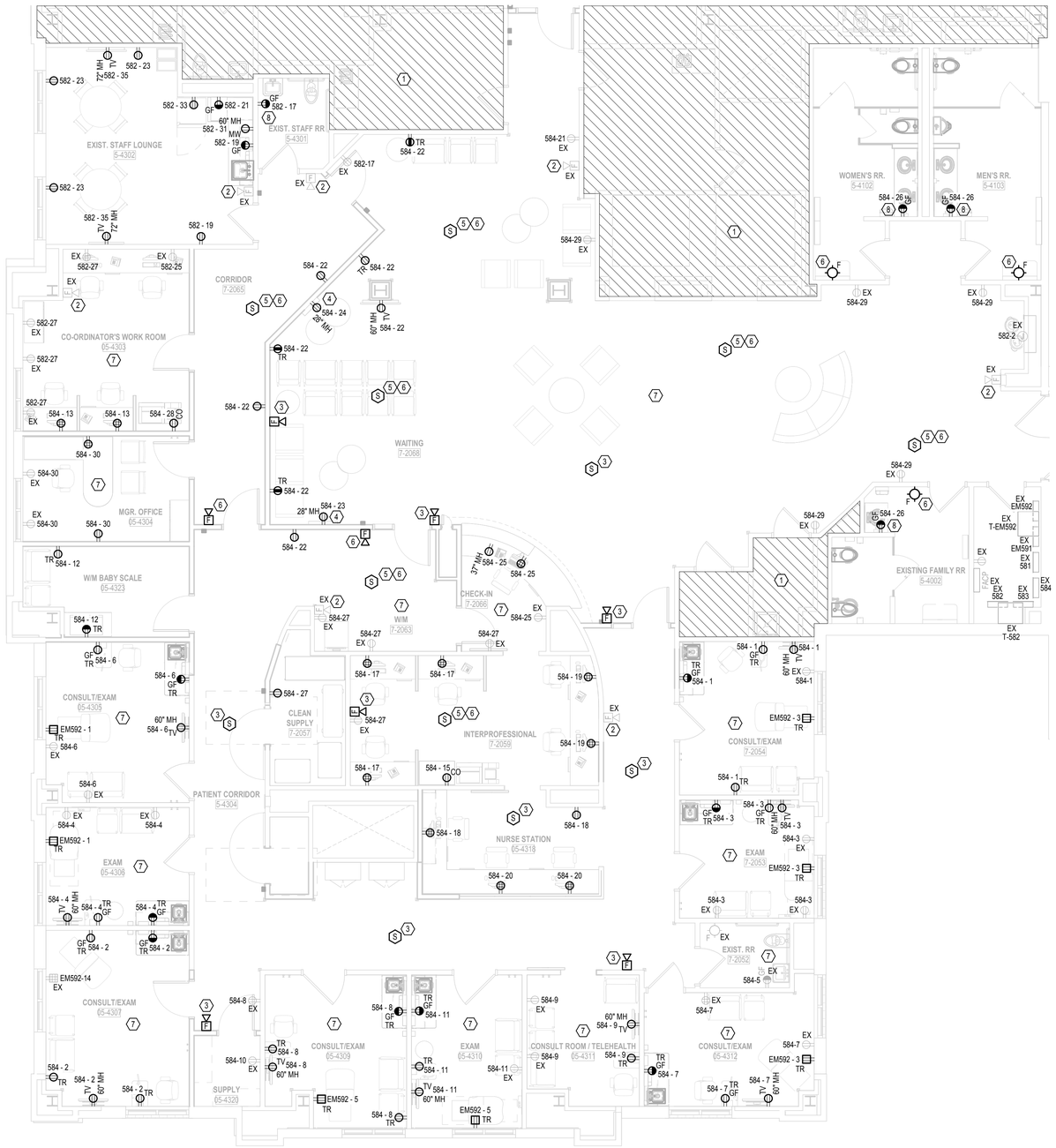
Drawn By BMW
Checked By JHS
Client Number
Project Number 6981-12

STATE OF OHIO — DONALD R. MADABAUGH — E-66095 — PROFESSIONAL ENGINEER — 7/16/2025 — REGISTERED — 2025 05937

DRAWING TITLE
PARTIAL FOURTH FLOOR - LIGHTING - NEW WORK

SHEET NO.
E101

7/16/2025 3:18:28 PM



1 **PARTIAL FOURTH FLOOR - POWER & FIRE ALARM - NEW WORK**
SCALE: 3/16" = 1'-0"

GENERAL NOTES:

A. REFER TO DRAWING E001 FOR LEGEND AND INDEX OF DRAWINGS.

B. PROVIDE GROUND FAULT RECEPTACLES WHERE LOCATED WITHIN 6' OF ALL SINKS.

C. PROVIDE TAMPER PROOF RECEPTACLES IN ALL PUBLIC SPACE AREAS (E.G. WAITING ROOMS, EXAM ROOMS, ETC.) AS REQUIRED BY CODE.

⬡ PLAN NOTES

1. HATCHED AREA NOT IN SCOPE.
2. EXISTING FIRE ALARM DEVICE TO REMAIN.
3. EXISTING FIRE ALARM DEVICE RELOCATED TO LOCATION SHOWN. EXTEND OR REPLACE EXISTING WIRING AS REQUIRED.
4. PROVIDE 120V POWER CONNECTION TO DIGITAL MEDIA DEVICE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. REWORK EXISTING FIRE ALARM SIGNAL AND STROBE CIRCUITS TO ACCOMMODATE NEW DEVICES. VERIFY CIRCUIT LOADING.
6. PROVIDE NEW FIRE ALARM DEVICES, SIGNAL, AND STROBE CIRCUITS TO SERVE RENOVATION.
7. REPLACE ALL EXISTING RECEPTACLES IN THE ROOM WITH NEW OUTLETS AND COVERPLATE. MAINTAIN CIRCUITING.
8. REPLACE ALL EXISTING RECEPTACLES WITHIN ROOM. WHERE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK, PROVIDE GROUND FAULT (GF) TYPE RECEPTACLE. EXTEND POWER TO FAUCET VIA LOAD SIDE CONNECTION TO RECEPTACLE.

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By	BMW
Checked By	JHS
Client Number	
Project Number	6981-12

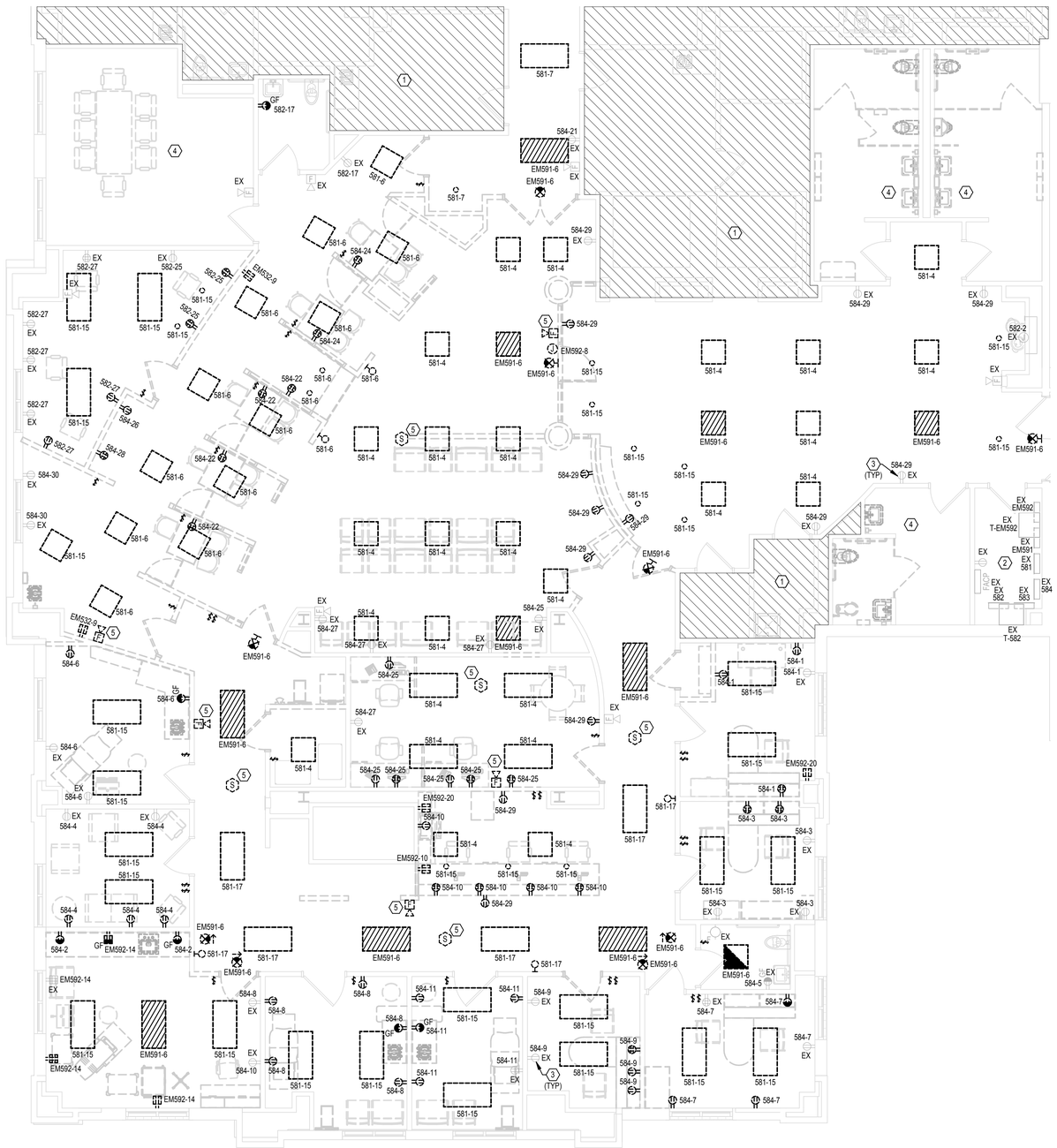
STATE OF OHIO — PROFESSIONAL ENGINEER — RONALD R. MADABAUGH — E-66095 — REGISTERED — 7/16/2025

DRAWING TITLE
PARTIAL FOURTH FLOOR - POWER & FIRE ALARM - NEW WORK

SHEET NO.
E102

7/16/2025 3:18:35 PM

ISSUED FOR CONSTRUCTION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TECHNOLOGY SYMBOLS WITH ELEC. REQUIREMENTS

	CONDUIT SLEEVE / FIRE RATED SLEEVE ASSEMBLY THRU WALL (1-2" SLEEVE UNLESS NOTED OTHERWISE) PER DIV 26.
XD	WALL MOUNTED DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE CORRIDOR CEILING PER DIV 26. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "XD" DESIGNATES QUANTITY OF DATA CABLES. REFER TO FACEPLATE DETAILS.
XD	SYSTEMS FURNITURE DATA OUTLET. SUBSCRIPT "XD" DESIGNATES QUANTITY OF DATA CABLES. REFER TO FACEPLATE DETAILS.
XD/XV	WALL MOUNTED VOICE/DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE CORRIDOR CEILING PER DIV 26. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "XD/XV" INDICATES QUANTITY OF DATA/VOICE CABLES. REFER TO FACEPLATE DETAILS.
W	WALL MOUNTED PHONE OUTLET (46" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "W" INDICATES WALL PHONE MOUNTING PLATE. REFER TO FACEPLATE DETAILS.
AP	WALL MOUNTED WIRELESS ACCESS POINT (96" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26 AND CABLING PER DIV 27. WAP OFCI.
1 X	WALL MOUNTED AV OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUITS TO ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO FACEPLATE DETAILS. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "X" INDICATES ALTERNATE CONFIGURATION.
1	TELECOM BOX AND CONDUIT PER DIV 26, REFER TO PLANS.
R X	WALL MOUNTED AV OUTLET (84" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT PER DIV 26. REFER TO FACEPLATE DETAILS. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "X" INDICATES ALTERNATE CONFIGURATION.
T X	WALL MOUNTED AV OUTLET (44" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT PER DIV 26. REFER TO FACEPLATE DETAILS. JACKS, FACEPLATE AND CABLING PER DIV 27. SUBSCRIPT "X" INDICATES ALTERNATE CONFIGURATION.
W	CUSTOM OUTLET IN SURFACE RACEWAY. SURFACE RACEWAY PER DIV 26. OUTLET JACKS, FACEPLATE AND CABLING PER DIV 27.
F X	FLOOR BOX PER DIV 26. # INDICATES TYPE, REFER TO FLOOR BOX (FB) SCHEDULE. SUBSCRIPT "X" INDICATES TECHNOLOGY DEVICE(S), REFER TO TECHNOLOGY DETAILS.
P X	POKE-THRU PER DIV 26. # INDICATES TYPE, REFER TO POKE-THRU (PT) SCHEDULE. SUBSCRIPT "X" INDICATES TECHNOLOGY DEVICE(S), REFER TO TECHNOLOGY DETAILS.
SP	CEILING MOUNTED PAGING SPEAKER

NURSE CALL SYMBOLS

NCCP	NURSE CALL CONTROL PANEL.
NM W	NURSE CALL DESK MOUNTED MASTER CONTROL STATION (OUTLET AT 18" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE).
NS	NURSE CALL STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
NS C	NURSE CALL MULTI-PIN CATV JACK (84" AFF UNLESS NOTED OTHERWISE).
NS P	NURSE CALL STAFF PRESENCE STATION (60" AFF UNLESS NOTED OTHERWISE).
ND	NURSE CALL DUTY STATION (46" MH UNLESS NOTED OTHERWISE).
N T	EMERGENCY NURSE CALL STATION WITH PULL CORD FOR PATIENT USE (46" MH AND TO SIDE AND WITHIN 12" FROM FRONT OF TOILET BOWL IN TOILET ROOMS, 66" MH IN SHOWERS AND WET AREAS, 46" MH UNLESS NOTED OTHERWISE IN ALL OTHER AREAS).
NC	PATIENT NURSE CALL UTILITY CONSOLE (46" MH UNLESS NOTED OTHERWISE).
N	PATIENT NURSE CALL STATION (ONE OR TWO CORDS AS INDICATED, 46" MH UNLESS NOTED OTHERWISE).
N	CEILING MOUNTED NURSE CALL DOME LIGHT.
H N	WALL MOUNTED NURSE CALL DOME LIGHT (90" MH UNLESS NOTED OTHERWISE).
N B	CEILING MOUNTED COMBINATION DOME LIGHT AND BUZZER.
N Z	CEILING MOUNTED NURSE CALL ZONE LIGHT.
N E	NURSE CALL EMERGENCY BUTTON (46" MH UNLESS NOTED OTHERWISE).
N B	EMERGENCY CODE BLUE BUTTON (46" MH UNLESS NOTED OTHERWISE).

GENERAL NOTES

A. ALL OUTLET BOXES AND CONDUIT/RACEWAYS ASSOCIATED WITH OUTLET BOXES TO BE PER DIVISION 26. ALL CABLE MANAGEMENT SYSTEMS WHERE OPEN WIRING IS INSTALLED SHALL BE PER DIVISION 27.

B. ALL CONDUIT SLEEVES SHOWN ON BID DOCUMENTS TO BE PER DIVISION 26. ALL CONDUIT SLEEVES THRU WALLS AND FLOORS, NOT SPECIFICALLY SHOWN ON DRAWINGS BUT REQUIRED FOR COMPLIANT INSTALLATION OF CABLING SHALL BE PER DIVISION 27 AS PART OF THEIR SCOPE OF WORK.

C. ALL FIRE STOPPING OF CONDUIT SLEEVES AND CABLE TRAY PENETRATIONS SHALL BE PER DIVISION 27.

D. THE DIVISION 27 CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE AND THOROUGH COORDINATION OF ALL PATHWAYS BEING PER THE DIVISION 26 CONTRACTOR. ANY PATHWAYS THAT ARE PROVIDED THAT CAUSE CABLING INSTALLATION TO BE NON-COMPLIANT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE INSTALLATION OF CABLING.

E. THE DIVISION 27 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL POWER REQUIREMENTS WITHIN THE TECHNOLOGY ROOM(S) WITH THE DIVISION 26 CONTRACTOR PRIOR TO ROUGH-INS AND BUILD-OUT OF EACH TECH ROOM. THE DIVISION 27 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNED-OFF DETAILED COORDINATION DRAWINGS INCLUDING ALL FIRE SUPPRESSION, PLUMBING, HVAC, ELECTRICAL, AND TECHNOLOGY WORK WITHIN THE ROOM(S). THE COORDINATION DRAWINGS SHALL SHOW FLOOR PLANS AND WALL ELEVATIONS INCLUDING ALL TRADES' WORK WITHIN THE SPACE(S) PRIOR TO ANY TRADES WORKING WITHIN THE SPACE(S).

F. THE DRAWINGS INDICATE THE QUANTITY, TYPE AND GENERAL LOCATION OF VOICE/DATA/CATV/VIDEO OUTLETS REQUIRED IN EACH SPACE. A FINAL DEVICE LOCATION PLAN FOR EACH SPACE WILL BE ISSUED PRIOR TO START OF THE INSTALLATION. THE TECHNOLOGY CONTRACTOR SHALL INCLUDE IN THE BID ANY COSTS ASSOCIATED WITH FINAL DEVICE LOCATIONS AS THERE WILL BE NO ALLOWANCE AFTER AWARD OF CONTRACT.

G. THE ELECTRICAL CONTRACTOR WILL PROVIDE THE CABLING PATHWAYS AND POWER FOR TECHNOLOGY SYSTEMS. THE TECHNOLOGY CONTRACTOR SHALL INCLUDE IN THE BID, COSTS TO OBTAIN AND REVIEW THE FINAL ELECTRICAL DRAWINGS AND TO HAVE DEDICATED PRE-CONSTRUCTION MEETINGS WITH THE ELECTRICAL CONTRACTOR AND CONSTRUCTION MANAGER. THE PURPOSE IS TO VERIFY AND CONFIRM THAT THE ELECTRICAL CONTRACTOR'S MEANS AND METHODS ARE COORDINATED WITH THE TECHNOLOGY CONTRACTOR'S INSTALLATION METHODS PRIOR TO START OF CONSTRUCTION. THE TECHNOLOGY CONTRACTOR SHALL IMMEDIATELY BRING ANY ISSUES TO THE ATTENTION OF THE CONSTRUCTION MANAGER. IN ADDITION, THE TECHNOLOGY CONTRACTOR SHALL INCLUDE COST TO WALK THROUGH EACH BUILDING DURING THE PATHWAY ROUGH-IN PHASE TO VERIFY INSTALLATION WILL ACCOMMODATE THE CABLING PHASE OF THE PROJECT.

H. A 3.5" DEEP MASONRY BOX (PER DIVISION 26) SHALL BE USED IN CMU WALLS.

SHEET LIST

SHEET NUMBER	SHEET NAME
T001	TECHNOLOGY LEGEND AND INDEX
T002	TECHNOLOGY DIAGRAMS AND DETAILS
T104	TECHNOLOGY PLAN LEVEL 4 - NEW WORK
TD104	TECHNOLOGY PLAN LEVEL 4 - DEMO
Total Count: 4	

SECURITY SYMBOLS WITH ELECTRICAL REQUIREMENTS

BR	WALL MOUNTED BIOMETRIC READER (46" MH UNLESS NOTED OTHERWISE). 2-GANG BOX WITH 0.75" CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. READER AND CABLING PER DIV 28. REFER TO SECURITY ROUGH-IN DETAILS.
CC X	CCTV SYSTEM CEILING MOUNTED CAMERA. CAMERA FURNISHED BY OWNER INSTALLED BY CONTRACTOR AND CABLING PER DIV 27.
CM	WALL MOUNTED MONITOR OUTLET FOR CCTV SYSTEM (84" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 1" CONDUIT TO ABOVE CORRIDOR CEILING PER DIV 26. JACK, FACEPLATE AND CABLING PER DIV 28.
CR	WALL MOUNTED PROXIMITY CARD READER (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. CARD READER AND CABLING PER DIV 28. REFER TO SECURITY ROUGH-IN DETAILS.
CR EL	ELEVATOR CAB MOUNTED CARD READER. READER TO BE INSTALLED IN ELEVATOR CAB AS COORDINATED WITH ELEVATOR CONTRACTOR. WIRING FROM CAB THRU TRAVELING CABLE TO ELEVATOR CONTROLLER IN ELEVATOR MACHINE ROOM AND INTERFACE WITH ELEVATOR CONTROLLER AND SMS PER DIV 28. COORDINATE WITH ELEVATOR CONTRACTOR. REFER TO SECURITY ROUGH-IN DETAILS.
DC	LOCAL IP BASED 2-DOOR ACCESS CONTROL PANEL SERVING LOCAL CARD READER/SECURITY CONTROLLED DOORS. LOCATE ABOVE ADJACENT ACCESSIBLE CEILING. PROVIDE DATA DROP IN 0.75" CONDUIT TO LOCAL DATA CLOSET. EXTEND 1" CONDUIT WITH DOOR SECURITY WIRING TO LOCAL SECURITY SYSTEM JUNCTION BOX. REFER TO SECURITY ROUGH-IN DETAILS.
DM	DOOR POSITION SWITCH WITH WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. PROVIDE ONE CONTACT FOR EACH LEAF IN MULTI-DOOR OPENINGS. REFER TO SECURITY ROUGH-IN DETAILS.
EDC X	ELECTRONIC DOOR CONTROL. SUBSCRIPT "X" INDICATES SPECIFIC DOOR. REFER TO ELECTRONIC DOOR CONTROL SCHEDULE FOR REQUIREMENTS.
EL	ELECTRONIC DOOR LOCK AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN DETAILS.
EM	ELECTRONIC MAG LOCK AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN DETAILS.
ES	ELECTRONIC STRIKE AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN DETAILS.
HA	WALL/PEDESTAL MOUNT HANDICAP DOOR ACTUATOR BUTTON, FURNISHED BY OTHERS. BOX AS REQUIRED BY SYSTEM MANUFACTURER WITH INSTALLATION AND CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. ALL LOW VOLTAGE WIRING AND INTERFACE WITH SMS AND DOOR MOTOR PER DIV 28. REFER TO SECURITY ROUGH-IN DETAILS.
HD	HANDICAP DOOR OPERATOR MOTOR ASSEMBLY BY OTHERS. 120V POWER CONNECTION AND CONDUIT FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. LOW VOLTAGE WIRING AND INTERFACE WITH SMS AND DOOR ACTUATOR BUTTONS PER DIV 28. REFER TO SECURITY ROUGH-IN DETAILS.
HO FA	WALL/FLOOR MOUNTED ELECTROMAGNETIC DOOR HOLD OPEN WITH POWER SUPPLY INSTALLED BY OTHERS. 120V POWER AND CONNECTION, BOX AS REQUIRED BY MANUFACTURER AND CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. LOW VOLTAGE WIRING FROM POWER SUPPLY TO HOLD OPEN AND INTERFACE WITH SMS PER DIV 28. SUBSCRIPT "FA" INDICATES DEVICES POWERED FROM FIRE ALARM SYSTEM AND INTERFACE FROM SMS TO FIRE ALARM SYSTEM REQUIRED FOR DOOR RELEASE PER DIV 28. REFER TO SECURITY ROUGH-IN DETAILS.
IC	WALL MOUNTED INTERCOM DOOR STATION (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. INTERCOM AND CABLING PER DIV 28.
JB M	SECURITY SYSTEM JUNCTION BOX TO BE LOCATED ABOVE ACCESSIBLE CEILING (MIN 6"X6"X4"). ROUTE LOCAL DOOR SECURITY WIRING CONDUITS/RACEWAYS TO JUNCTION BOX. EXTEND 1" CONDUIT WITH DOOR SECURITY WIRING TO LOCAL 2-DOOR CONTROL PANEL/REMOTE DOOR CONTROL PANEL AS INDICATED ON DRAWINGS. REFER TO SECURITY ROUGH-IN DETAILS.
K	WALL MOUNTED SECURITY KEYPAD ENTRY STATION (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. KEYPAD AND CABLING PER DIV 28.
KC	WALL MOUNTED COMBINATION KEYPAD/CARD READER (46" MH UNLESS NOTED OTHERWISE). 2-GANG BOX WITH 0.75" CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING PER DIV 28.
LB	ELECTRONIC LATCH BOLT MONITORING. HARDWARE AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SECURITY JUNCTION BOX ABOVE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN DETAILS.
MD	CEILING MOUNTED MOTION DETECTOR. 1-GANG BOX MOUNTED IN CEILING PER DIV 26. DETECTOR AND CABLING PER DIV 28.
MD	WALL MOUNTED MOTION DETECTOR (90" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. MOTION DETECTOR, WALL MOUNT HARDWARE, AND CABLING PER DIV 28.
MIC	CEILING MOUNTED SECURITY/CCTV SYSTEM AUDIO MICROPHONE. 1-GANG BOX MOUNTED IN CEILING PER DIV 26. MICROPHONE AND CABLING PER DIV 28.
PB W	WALL MOUNTED PUSH BUTTON FOR LOCAL ELECTRONIC DOOR RELEASE (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. BUTTON AND CABLING PER DIV 28.
PL	SITE POLE FOR MOUNTING SECURITY CAMERAS (REFER TO SPECIFICATIONS FOR SIZE/TYPE). PROVIDE POLE WITH CONCRETE BASE AS INDICATED ON PLANS. EXTEND AND CONNECT TO SITE CONDUIT SYSTEM AS INDICATED ON PLANS. PROVIDE NEMA 3R JUNCTION BOX AT BASE OF POLE FOR CAMERA EQUIPMENT (120V POWER SUPPLY, FIBER CONVERTERS, ETC.). REFER TO SECURITY ROUGH-IN DETAILS.
PP W	WALL MOUNTED PANIC/DURESS BUTTON (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. BUTTON AND CABLING PER DIV 28.
PS X	LOCAL LOW VOLTAGE POWER SUPPLY FOR EXTERIOR CAMERA. SUBSCRIPT "X" INDICATES ASSOCIATED CAMERA. 120V POWER INTO LOCAL JUNCTION BOX ABOVE CEILING AND CONNECTION TO POWER SUPPLY PER DIV 26. POWER SUPPLY MOUNTED ABOVE CEILING AND LOW VOLTAGE WIRING TO LOCAL CAMERA PER DIV 28.
RX	REQUEST TO EXIT SWITCH IN DOOR HARDWARE BY OTHERS. LOW VOLTAGE WIRING PER DIV 28. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN DETAILS.
X	WALL MOUNTED SECURITY SYSTEM WIRING OUTLET MOUNTED BELOW COUNTER TOP. 2-GANG BOX WITH 2-1" CONDUITS TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. GROMMETED FACEPLATE AND SECURITY SYSTEM CABLING PER DIV 28.

GENERAL FLOOR PLAN NOTES

B / T2	DETAIL: B = DETAIL DESIGNATION T2 = SHEET WHERE DETAIL IS LOCATED
1 / T2	SECTION: 1 = SECTION DESIGNATION T2 = SHEET WHERE SECTION IS LOCATED
T2 1	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	LADDER TRAY PER DIV 26, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY PER DIV 26, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
4"	CONDUIT RUN IN WALL OR ABOVE CEILING PER DIV 26.
4"	CONDUIT RUN IN SLAB OR UNDERGROUND PER DIV 26.
CM	CABLE MANAGEMENT SYSTEM PATHWAY PER DIV 27 / DIV 28.

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

ABBREVIATIONS

AAP	- AREA ALARM PANEL - MEDICAL GAS
ACC	- ACCESS
ADJ	- ADJUSTABLE
AF	- ARC FAULT CIRCUIT INTERRUPTER
AFCI	- ARC FAULT CIRCUIT INTERRUPTER
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT	- ALTERNATE
AP	- ACCESS PANEL
APPROX	- APPROXIMATE
ARCH	- ARCHITECT OR ARCHITECTURAL
ASSY	- ASSEMBLY
ATS	- AUTOMATIC TRANSFER SWITCH
BLDG	- BUILDING
BOE	- BOTTOM OF EQUIPMENT
BOT	- BOTTOM
BTWN	- BETWEEN
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	- CIRCUIT
CLG	- CEILING
CMU	- CONCRETE MASONRY UNIT
CONN	- CONNECT OR CONNECTION
CONTR	- CONTRACTOR
CORR	- CORRIDOR
CTR	- CENTER
D	- DEPTH
DET	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DIV	- DIVISION
DN	- DOWN
DWG	- DRAWING
EA	- EACH
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)
EJ	- EXPANSION JOINT
ELEC	- ELECTRICAL
ELEV	- ELEVATION OR ELEVATOR
EM	- EMERGENCY
EQ	- EQUAL
EQS	- EQUIPMENT SUPPLIER
EQUIP	- EQUIPMENT
ETR	- EXISTING TO REMAIN
EX	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FCE	- FIRE CONTROL EQUIPMENT
FF	- FINISHED FLOOR ELEVATION
FLR	- FLOOR
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT	- FEET
FTG	- FOOTING
GC	- GENERAL CONTRACTOR
GF	- GROUND FAULT CIRCUIT INTERRUPTER
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT	- GROUND FAULT FEED THRU
HC	- HVAC CONTRACTOR (DIVISION 23)
HP	- HORSE POWER OR HIGH POINT
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING
ID	- INSIDE DIAMETER
IN	- INCHES
KEC	- KITCHEN EQUIPMENT CONTRACTOR
L	- LENGTH
LBS	- POUNDS
MAP	- MASTER ALARM PANEL (MEDICAL GAS)
MAX	- MAXIMUM
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MH	- MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN	- MINIMUM OR MINUTE
MISC	- MISCELLANEOUS
MTD	- MOUNTED
MTG	- MOUNTING
NIC	- NOT IN CONTRACT
NOM	- NOMINAL
NTS	- NOT TO SCALE
OD	- OUTSIDE DIAMETER
OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	- OWNER FURNISHED OWNER INSTALLED
PC	- PLUMBING CONTRACTOR (DIVISION 22)
PLBG	- PLUMBING
RAD	- RADIUS
REC	- RECESSED
REQD	- REQUIRED
RI	- ROUGH-IN
S	- SURFACE MOUNTED
SC	- SECURITY CONTRACTOR
SCH	- SCHEDULE
SHT	- SHEET
SMS	- SECURITY MANAGEMENT SYSTEM
SPEC	- SPECIFICATIONS
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STRUC	- STRUCTURAL OR STRUCTURE
SUC	- SITE UTILITY CONTRACTOR
TC	- TECHNOLOGY CONTRACTOR
TEMP	- TEMPERATURE
TOE	- TOP OF EQUIPMENT
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VFD	- VARIABLE FREQUENCY DRIVE
VOL	- VOLUME
W/	- WITH
W/O	- WITHOUT
WP	- WEATHERPROOF
ZVC	- ZONE VALVE CABINET

CHAMPLIN ARCHITECTURE

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10 S Patterson Blvd
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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By	JHH
Checked By	JDK
Client Number	
Project Number	6981-12

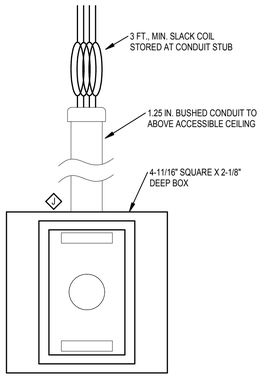
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
James D Krile
BICSI ID # 137910
Expires 12-31-26
RCDD

DRAWING TITLE
TECHNOLOGY LEGEND AND INDEX

SHEET NO.
T001

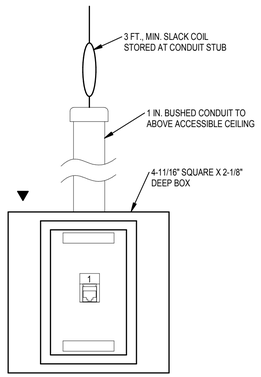
7/16/2025 10:04:15 AM

ISSUED FOR CONSTRUCTION



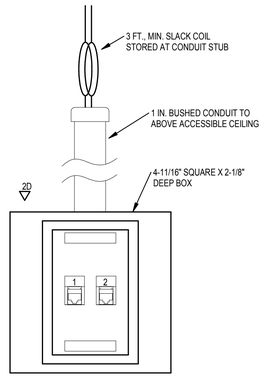
OUTLET TYPE "J"
SYSTEMS FURNITURE WALL FEED

SINGLE GANG FACEPLATE WITH GROMMET



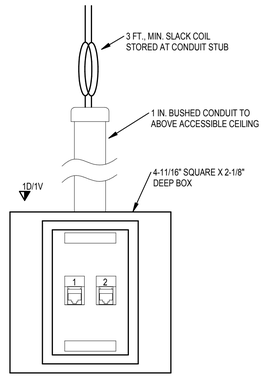
OUTLET TYPE "P"
WALL PHONE

1-POSITION SINGLE GANG STAINLESS STEEL FACEPLATE WITH MOUNTING STUDS AND CLEAR LABEL WINDOWS:
- ONE (1) MODULAR 8-POSITION JACK "BLUE/GREEN"
- ONE (1) 4-PAIR CATEGORY 6A UTP CABLE "BLUE/GREEN"



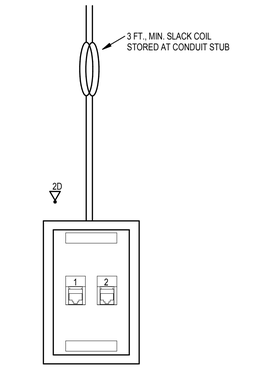
OUTLET TYPE "D2"
DUPLEX (VOICE/DATA)
WALL-MOUNTED

2-POSITION SINGLE GANG FACEPLATE WITH CLEAR LABEL WINDOWS:
- TWO (2) MODULAR 8-POSITION JACKS "BLUE/GREEN"
- TWO (2) 4-PAIR CATEGORY 6A UTP CABLES "BLUE/GREEN"



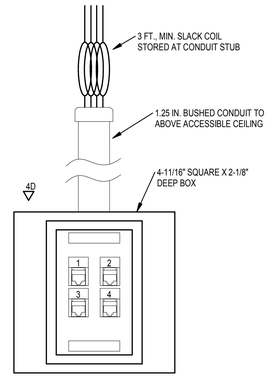
OUTLET TYPE "D1/V1"
DUPLEX (VOICE/DATA)
WALL-MOUNTED

2-POSITION SINGLE GANG FACEPLATE WITH CLEAR LABEL WINDOWS:
- ONE (1) MODULAR 8-POSITION JACK "BLUE/GREEN"
- ONE (1) 4-PAIR CATEGORY 6A UTP CABLE "BLUE/GREEN"
- ONE (1) MODULAR 8-POSITION JACK "WHITE"
- ONE (1) 4-PAIR CATEGORY 6A UTP CABLE "WHITE"



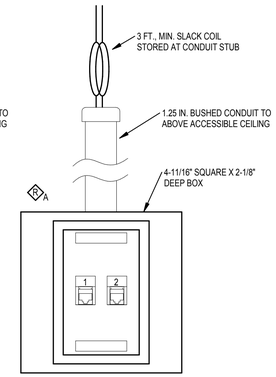
OUTLET TYPE "D2"
DUPLEX (VOICE/DATA)
SYSTEMS FURNITURE

2-POSITION SINGLE GANG FACEPLATE WITH CLEAR LABEL WINDOWS:
- TWO (2) MODULAR 8-POSITION JACKS "BLUE/GREEN"
- TWO (2) 4-PAIR CATEGORY 6A UTP CABLES "BLUE/GREEN"



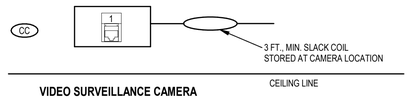
OUTLET TYPE "D4"
QUADRAPLEX (VOICE/DATA)

2-POSITION SINGLE GANG FACEPLATE WITH CLEAR LABEL WINDOWS:
- FOUR (4) MODULAR 8-POSITION JACKS "BLUE/GREEN"
- FOUR (4) 4-PAIR CATEGORY 6A UTP CABLES "BLUE/GREEN"



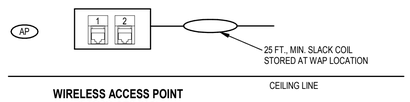
OUTLET TYPE "RA"
IPTV

2-POSITION SINGLE GANG FACEPLATE WITH CLEAR LABEL WINDOWS:
- ONE (1) MODULAR 8-POSITION JACK "BLUE/GREEN"
- ONE (1) 4-PAIR CATEGORY 6A UTP CABLE "BLUE/GREEN"
- ONE (1) MODULAR 8-POSITION JACK "BLACK"
- ONE (1) 4-PAIR CATEGORY 6A UTP CABLE "BLACK"



VIDEO SURVEILLANCE CAMERA
(LAY-IN CEILING)

1-POSITION SURFACE BOX "BISCUIT":
- ONE (1) MODULAR 8-POSITION JACK "YELLOW"
- ONE (1) CATEGORY 6A UTP CABLE "YELLOW"



WIRELESS ACCESS POINT
(LAY-IN CEILING)

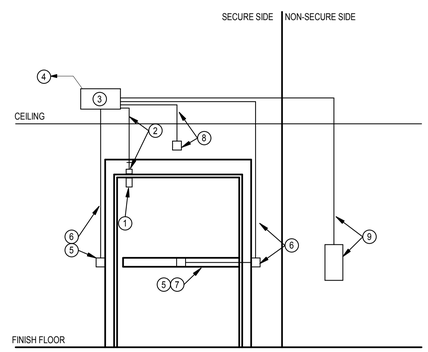
2-POSITION SURFACE BOX "BISCUIT":
- TWO (2) MODULAR 8-POSITION JACKS "PURPLE"
- TWO (2) CATEGORY 6A UTP CABLES "PURPLE"

1 TECHNOLOGY OUTLET DETAILS

ELECTRONIC DOOR CONTROLS SCHEDULE

NOTES:
1.
2.
3.
4.

EDC NUMBER	DOOR OPENING NUMBER	CONTROL							LOCKS													REQUEST TO EXIT						DOOR MONITOR								AUTOMATIC DOOR OPERATOR			SPECIAL DOOR NOTES
		EAC		INTERFACE					POWER					TYPE							FUNCTION			LOCATION			POSITION SWITCH					L BOLT	BOND SENSOR	MOTOR		PUSHPLATE		
		READER	TOD	FIRE ALARM	INTERCOM	PUSH BUTTON	INTRUSION ALARM	POE / POE+	VOLTAGE	LOCAL	REMOTE	LOCATION	NOTE	EP	EL	ES	ML	W L	QTY	ALARM SHUNT	UNLOCK	NOTE	HARDWARE	MOTION	WALL SWITCH	NOTE	QTY	#P#T	BALANCED	HIGH SECURITY	RECESSED	SURFACE	QTY	QTY	QTY	EAC INTERFACE	QTY	WIRELESS	
05-4000A	05-4000A	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4302	05-4302	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4308A	05-4308A	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4308B	05-4308B	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4321	05-4321	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4322A	05-4322A	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		
05-4322B	05-4322B	●	●						24		●					●			1	●				●			1	DPDT	●		●		0	0	0		0		



2 ACCESS CONTROL DOOR DETAILS

○ DETAIL NOTES

1. BALANCED MAGNETIC DOOR POSITION SWITCH, DPDT. PROVIDE 2PR-#22AWG SHIELDED FROM DOOR FRAME TO LOCAL SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
2. PROVIDE 0.5" CONDUIT FROM DOOR FRAME TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
3. COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR. (12"X12"X4" WITH SECURITY SCREW COVER).
4. PROVIDE PLENUM COMPOSITE DOOR SECURITY WIRING (EQUAL TO BELDEN B658AF.) FROM COMMON SECURITY JUNCTION BOX TO BACKBOARD IN THE 4TH FLOOR TECH CLOSET (SHOWN ON DRAWING T104). PROVIDE 24" TAIL IN JUNCTION BOX AND 20' TAIL AT BACKBOARD. CABLE TO BE PROPERLY SUPPORTED UTILIZING J-HOOKS.
5. ELECTRONIC DOOR LOCK.
6. PROVIDE 0.75" CONDUIT FROM DOOR FRAME TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.
7. NOT USED..
8. WALL MOUNTED REQUEST TO EXIT MOTION SENSOR . PROVIDE 1-GANG BOX WITH 0.5" CONDUIT TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR. SENSOR BOX TO BE LOCATED ON SECURE SIDE OF DOOR, DIRECTLY ABOVE THE DOOR FRAME.
9. WALL MOUNTED CREDENTIAL READER. PROVIDE 1-GANG BOX AT 46" MH (UNLESS OTHERWISE NOTED) AND EXTEND 0.75" CONDUIT FROM BOX TO COMMON SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR.

CHAMPLIN ARCHITECTURE

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By: JHH
Checked By: JDK
Client Number:
Project Number: 6981-12

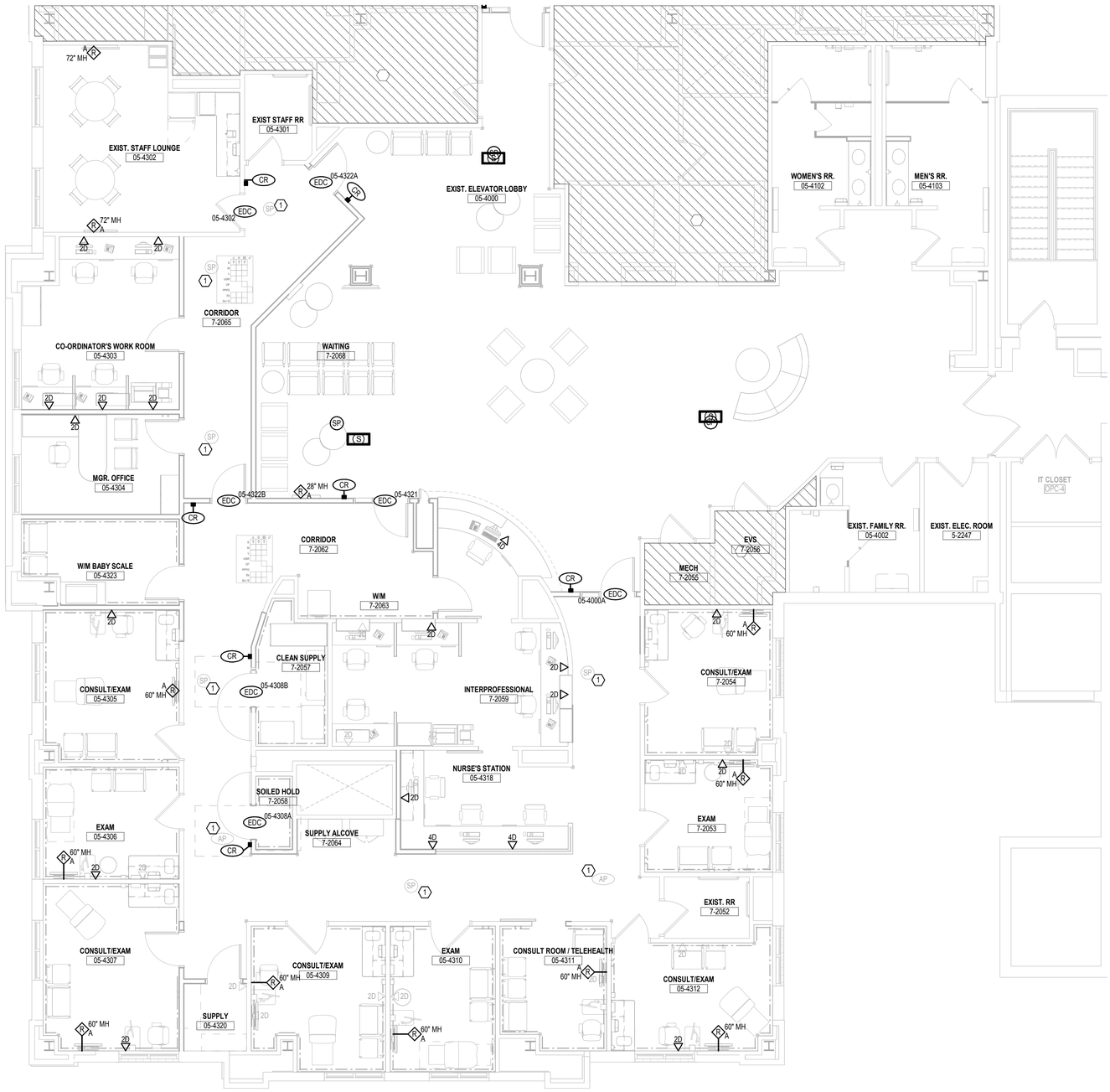
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
James D Krile
BICSI ID # 137910
EXPIRES 12-31-26
RCDD

DRAWING TITLE
TECHNOLOGY DIAGRAMS AND DETAILS

SHEET NO.
T002

7/16/2025 10:04:15 AM

ISSUED FOR CONSTRUCTION



1 TECHNOLOGY LEVEL 4 NEW WORK

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

GENERAL NOTES

A. REMOVE CEILING PAGING SPEAKERS AND WIRELESS ACCESS POINTS DURING DEMOLITION AND RE-INSTALL DURING CONSTRUCTION.

B. COORDINATE LOCATION OF PATCH PANELS IN THE IT CLOSET (OPC-4) WITH DCH-IT.

C. USE EXISTING PATHWAYS. USE J-HOOKS WHERE THERE IS NO EXISTING PATHWAYS.

D. REUSE EXISTING RACKS IN THE IT CLOSET.

PLAN NOTES

1. DEVICE TO BE RE-INSTALLED

CHAMPLIN ARCHITECTURE

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
	ISSUED FOR CONSTRUCTION	07/15/25

Drawn By JHH

Checked By JDK

Client Number

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
James D Krile
BICSI ID # 137910
Expires 12-31-26
RCDD

Project Number 6981-12

DRAWING TITLE

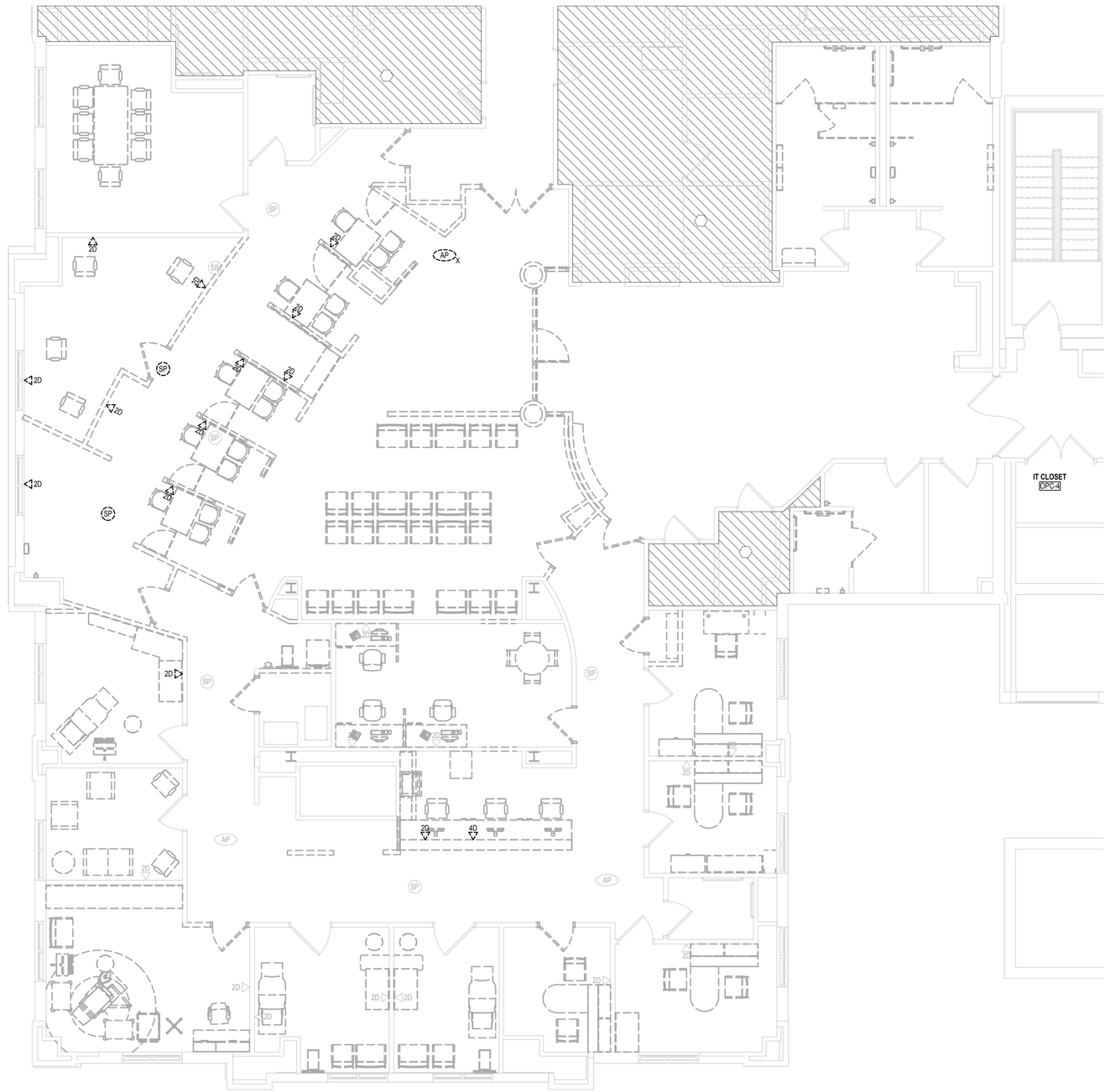
TECHNOLOGY PLAN LEVEL 4 - NEW WORK

SHEET NO.

T104

7/16/2025 10:04:17 AM

ISSUED FOR CONSTRUCTION



1 **TECHNOLOGY LEVEL 4 DEMO**
SCALE: 3/16" = 1'-0"

CHAMPLIN ARCHITECTURE

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OPC-4 GENETICS CLINIC

ISSUANCES

No.	Description	Date
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Drawn By JHH
Checked By JDK
Client Number
Project Number 6981-12

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
James D Krile
BICSI ID # 137910
EXPIRES 12-01-26
RCDD

DRAWING TITLE
TECHNOLOGY PLAN LEVEL 4 - DEMO

SHEET NO.
TD104

7/16/2025 10:04:19 AM

ISSUED FOR CONSTRUCTION