

**UMMC PROJECT NO. 209-587
MIND CENTER AND GERIATRIC CLINIC
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
JACKSON, MISSISSIPPI**

**From: Foil Wyatt Architects & Planners, PLLC
1510 North State Street, Suite 200
Jackson, MS 39202**

Addendum No. 1

October 27, 2025

This addendum forms a part of the contract documents and modifies the original plans and specifications dated September 17, 2025.

General:

Item 1.1: Elevators

Note: The Owner will have a separate contractor upgrading the existing elevators during the construction period of this project. The elevators will not be available for use.

Specifications:

Item 1.2: Section 003132 - Geotechnical Data

Add: The enclosed section in its entirety.

Item 1.3: Section 012100 - Cash Allowances

Change: Paragraph 1.6, C.

To: "Allow \$600,000.00 for mechanical controls. See Section 230513."

Item 1.4: Section 015000 - Construction Facilities and Temporary Controls

Delete: Paragraph 1.15, C - Requirement to provide ID badges for each employee.

Note: The General Contractor is required to check out the building key each morning and return it to UMMC each afternoon.

Item 1.5: Section 064000 - Architectural Woodwork

Change: Paragraph 2.2, D.

To: "Interior surfaces shall be white melamine"

Change: Paragraph 2.2, E.

To: "Wood doors: ¾" thick particle board"

Item 1.6: Section 072100 - Building Insulation

Add: Paragraph 2.1, B. to read "Install 3 ¾" thick polystyrene rigid insulation with foil face to match existing onto slab above the drive-thru ceiling where missing. Area is approximately 4,000 sq. ft. to be confirmed."

Item 1.7: Section 081100 - Metal Doors and Frames

Add: Paragraph 3.2, K. to read "Window frame for Type A window shall be 1/16" lead equivalent."

Item 1.8: Section 088100 - Glass and Glazing

Change: The last sentence in Paragraph 2.2, F.

To: "Mirrors over all lavatories shall be 18" wide x 30" high located 40" above the finished floor."

Add: Paragraph 2.2, J. to read "Clear glass for window Type A shall be 1/16" lead equivalent. Coordinate with hollow metal frame."

Item 1.9: Section 072116.01 - Acoustical Treatment

Replace: The original section with the enclosed revised section.

Item 1.10: Section 084200 - Sliding Entrances

Clarification: Sliding entrance doors 101-A, 101-B, 201, 301, and 401 are automatic sliders.

Item 1.11: Section 092900 - Gypsum Drywall

Delete: Paragraph 2.1, E and all references to "impact-resistant" in this section.

Item 1.12: Section 095100 - Acoustical Ceilings

Add: Paragraph 2.03, B, 4. b. to read "Prelude XLG90 15/16" as manufactured by Armstrong for exterior application for the vehicular drive-thru ceiling grid."

Item 1.13: Section 096519 - Resilient Tile Flooring

Change: Paragraph 2.2, G. "LVT-METRI II Mid-Grey / shard"

To: "LVT-3 Color shall be #7565 - Landmark."

Item 1.14: Section 102123 - Cubicle Curtains

Clarification: The location of the curtain and track is in the X-ray room between the wall behind the door to the end of the wing wall of the control space.

Item 1.15: Section 102601 - Wall and Corner Guards

Add: Paragraph 2.02, B, 6. to read "Corner guards shall be installed on all outside corners on all floors inside the building."

Item 1.16: Section 102813 - Toilet Accessories

Replace: The original section with the enclosed revised section.

Item 1.17: Section 104400 - Fire Protection Specialties

Add: Paragraph 2.2, C. to read "Fire Extinguisher shall be identified by a triangular sign 5" x 5" x 6" equal to part #PTD182."

Item 1.18: Section 113000 - Residential Equipment

Add: Paragraph 2.01, E. to read "Microwave shall be equal to GE Model GCHK071WSS."

Item 1.19: Section 323100 - Fences and Gates

Add: Paragraph 1.01, B. to read "Fencing shall be located in the same place as the permanent steel fence shown on the site plan."

Item 1.20: Electrical Addendum

Add: The enclosed Electrical Addendum.

Drawings:

Item 1.21: Sheet C-401

Add: The enclosed drawing titled "Joint at Existing Paving"

Item 1.22: Sheet A-401

Clarification: The four squares shown in the northeast corner of Lobby 102 are lockers.

Item 1.23: Sheet A-406

Clarification: Existing cabinets in Kitchen-441 and Corridor 432 shall remain and be painted. The countertops shall receive a new solid surface finish.

Item 1.24: Sheet A-406 and A-407

Change: "Room finish No. 7"

To: "Room finish No. 1"

Item 1.25: Sheet A-604

Clarification: Window detail at Lobby shows a solid surface sill. All of the existing window sills on the upper floors shall remain as-is.

Item 1.26: Sheets A-701

Replace: The existing sheet with the enclosed revised sheet A-701.

Item 1.27: Sheet A-702, A-703, A-704, and A-705

Add: New enclosed sheets.

Item 1.28: Sheet F-102

Replace: Wall painting legend with the enclosed revised schedule.

Item 1.29: Sheet FP-101

Clarification: There will be no seismic requirements for the mechanical systems. The standpipes will be manual type. The fire pump voltage is 460 3-phase.

Item 1.30: Sheet ADE-001, ADE-102, ADE-103, ADE-202, ADE-203, ADE-302, ADE-303, ADE-402, ADE-403, ADE-701, ADE-702, ADE-800, ADE-801, and ADE-901

Replace: The existing sheets with the enclosed revised sheets ADE-001, ADE-102, ADE-103, ADE-202, ADE-203, ADE-302, ADE-303, ADE-402, ADE-403, ADE-701, ADE-702, ADE-800, ADE-801, and ADE-901.

End of Addendum No. 1

SECTION 003132 – GEOTECHNICAL DATA

PART 1 - GENERAL

1.1 DESCRIPTION:

- A. The enclosed geotechnical report is for informational purposes only and is not considered part of the contract documents.

END OF SECTION

BURNS COOLEY DENNIS, INC.

GEOTECHNICAL AND MATERIALS ENGINEERING CONSULTANTS

Corporate Office
551 Sunnybrook Road
Ridgeland, MS 39157
Phone: (601) 856-9911
Fax: (601) 853-2077

Mailing Address
Post Office Box 12828
Jackson, MS 39236

www.bcdgeo.com

Materials Laboratory
278 Commerce Park Drive
Ridgeland, MS 39157
Phone: (601) 856-2332
Fax: (601) 856-3552

October 16, 2024

Justin Parker, AIA, NCARB
Foil Wyatt Architects & Planners, PLLC
1510 North State Street, Suite 200
Jackson, Mississippi 39202

Report No. 240486

**Geotechnical Exploration
Proposed Lobby and Pavement Additions
UMMC MIND Center and Geriatric Clinic
Jackson, Mississippi**

Dear Mr. Parker:

Submitted here is the report of our geotechnical exploration for the above-captioned project. This exploration was authorized by your execution of our contract agreement on August 5, 2024, and was generally performed in accordance with our Proposal No. 24001P-235 dated August 1, 2024.

We appreciate the opportunity to be of service. If you should have any questions concerning this report, please do not hesitate to call us.

Very truly yours,

BURNS COOLEY DENNIS, INC.

Amber Templeton Reeb

Amber Templeton Reeb, P.E.

A. E. Templeton

A. E. (Eddie) Templeton, P.E.

AET/ATR/khb
Copies Submitted: (via-email)

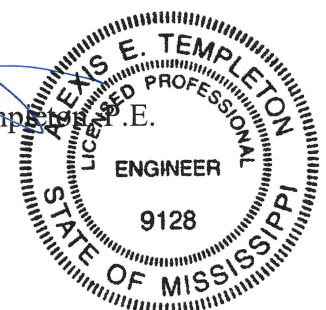


TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Description.....	1
1.2	Purposes	1
2.0	FIELD EXPLORATION	2
2.1	General.....	2
2.2	Drilling Methods and Groundwater Observations.....	2
2.3	Sampling Methods	3
2.4	Field Classification, Sample Preservation, and Borehole Abandonment	3
3.0	LABORATORY TESTING.....	3
3.1	General.....	3
3.2	Classification Tests	3
3.3	Water Content Tests.....	4
4.0	GENERAL SUBSURFACE CONDITIONS.....	4
4.1	General.....	4
4.2	Soil Stratification	5
4.3	Groundwater	5
5.0	DISCUSSION.....	6
5.1	General Soil Conditions.....	6
5.2	Expansive Clay Considerations	6
5.3	Design Considerations	7
6.0	RECOMMENDATIONS.....	8
6.1	Site Preparation and Earthwork Construction.....	8
6.2	Foundation Design Recommendations	11
6.3	Guideline Pavement Recommendations	12
6.4	Other Design and Construction Considerations.....	15
7.0	REPORT LIMITATIONS	16

FIGURES

1.0 INTRODUCTION

1.1 Project Description

Plans are being made for the construction of a new lobby and possible repaving at the MIND Center and Geriatric Clinic located at 1405 North State Street in Jackson, Mississippi. The existing building consists of a multi-story structure with first-floor parking beneath the building. We understand the existing building is supported on a deep foundation system consisting of belled piers that bear in the unweathered Yazoo clay. The as-built drawings indicate that the interconnecting grade beams and ground level slab were underlain by a minimum 1-ft thick foam board to accommodate some upward movement of the subgrade related to swelling of the expansive clays. We understand the existing concrete pavement within the parking garage has been replaced, but the date of that reconstruction has not been provided. Recent photographs indicate that the ground level slab has experienced significant movement since it was replaced.

The proposed lobby addition will be constructed within the first-floor parking area. It is our understanding the lobby addition foundation will be independent of the existing building and supported on a shallow foundation system with the understanding that some movement could occur. The existing concrete surfacing within the parking garage might also be replaced under the scope of this project. For the replacement of the existing pavement, either rigid concrete pavement or the flexible asphalt pavement will be utilized. A site plan showing the proposed additions is presented on Figure 1 of this report.

1.2 Purposes

The specific purposes of this exploration were:

- 1) to make exploratory soil borings within the areas planned for construction of the additions;
- 2) to verify field classifications and to evaluate pertinent physical properties of the soils encountered in the borings by means of visual examination of the soil samples in the laboratory and routine tests performed on the samples; and

3) after analysis of the soil boring and laboratory test data, to provide recommendations for site preparation, earthwork construction, and building foundation design and construction, and to also provide guideline recommendations for pavement design and construction.

Our current scope of work does not include: environmental study; detailed slope and trench stability analyses; dewatering analyses; detailed pavement design; structural foundation design; review of plans and specifications; responses to contractor requests for information (RFIs); and construction phase services.

2.0 FIELD EXPLORATION

2.1 General

At your request, subsurface soil conditions within the areas planned for construction of the additions were explored by means of five (5) borings. The approximate locations of the borings are shown on Figure 1. The borings were located prior to the arrival of our field crew by a representative of Barnes Surveying, LLC.

All soils were classified in general accordance with the Unified Soil Classification System. A synopsis of the Unified Soil Classification System is presented on Figure 2 along with symbols and terminology typically utilized on graphical soil boring logs. Graphical logs of the borings are presented on Figures 3 through 7. The graphical logs illustrate the types of soil and stratification encountered with depth below the existing ground surface at the individual boring locations. Surface elevations included at the top of the graphical boring logs were estimated from ground elevation contours shown on the furnished site plan and topographic survey map and should be considered approximate. Approximate GPS coordinates for the boring locations as determined by our drilling personnel using a hand-held device are shown at the bottom of the graphical boring logs within the “Comments” section. Ground elevations at the boring locations were not determined.

2.2 Drilling Methods and Groundwater Observations

An electric coring machine was utilized to create access holes for drilling and sampling through the existing concrete pavement at the boring locations. The borings were made to an exploration depth of 15 ft using a hand auger. Observations were made continuously during

auger drilling to detect free water entering the open boreholes. Notes pertaining to groundwater observations are included at the bottom right corner of the graphic boring logs.

2.3 Sampling Methods

Disturbed samples of the soils encountered in the borings were obtained directly from the auger cuttings at approximate 1.5-ft depth intervals. The depths at which the auger cutting samples were obtained are illustrated as small I-shaped symbols under the "Samples" column of the graphic boring logs.

2.4 Field Classification, Sample Preservation, and Borehole Abandonment

All soils encountered during drilling were examined and classified in the field by a geotechnical engineering technician. The auger cutting samples were sealed in jars to provide material for visual examination and testing in the laboratory. The boreholes were plugged with soil cuttings and patched at the surface with Quikrete after completion of drilling and sampling. Unless other disposition is requested, we routinely discard soil samples after about six months of storage.

3.0 LABORATORY TESTING

3.1 General

All of the soil samples were examined in the laboratory and tests were performed on selected samples to verify field classifications and to assist in evaluating the strengths and volume change properties of the soils encountered. The types of laboratory tests performed are described in the following paragraphs.

3.2 Classification Tests

The classifications and volume change properties of the fine-grained soils encountered in the borings were investigated by means of Atterberg liquid and plastic limit tests performed on selected representative samples. The results of the liquid and plastic limit tests are plotted as small crosses interconnected by dashed lines in the data section of the graphic boring logs. In accordance with the Unified Soil Classification System, fine-grained soils are classified as either

clays or silts of low or high plasticity based on the results of Atterberg limit tests. The numerical difference between the liquid limit and plastic limit is defined as the plasticity index (PI). The magnitudes of the liquid limit and plasticity index and the proximity of the natural water content to the plastic limit are indicators of the potential for a fine-grained soil to shrink or swell upon changes in moisture content or to consolidate under loading. The proximity of the natural water content to the plastic limit is also an indicator of soil strength.

3.3 Water Content Tests

Water content tests were performed on samples to corroborate field classifications and to extend the usefulness of the plasticity data. The results of the water content tests are plotted as small shaded circles in the data section of the graphic boring logs. The water content data have been interconnected on the logs to illustrate a continuous profile with depth.

4.0 GENERAL SUBSURFACE CONDITIONS

4.1 General

A general description of subsurface soil and groundwater conditions revealed by the borings made for this exploration is provided in the following paragraphs. The graphical logs shown on Figures 3 through 7 should be referred to for specific soil and groundwater conditions encountered at each boring location. Stick logs of the borings are shown in profile on Figure 8 to aid in visualizing subsurface soil conditions. Tabulated adjacent to the stick logs are Atterberg liquid and plastic limits and water contents.

Some soils encountered at the boring locations appear to be fill materials. It should be understood that it is difficult to distinguish fill from natural soils. The borings are only representative of the conditions at the boring locations. There could be relatively weak and compressible fill materials or large concentrations of organic matter or debris at locations not explored during this exploration. It is not practical to fully characterize old fill materials by means of borings.

4.2 Soil Stratification

The borings were made within existing concrete pavement. The thickness of the existing concrete pavement at the locations of the borings was found to range from about 6 in. to 7 in. The concrete pavement is in direct contact with the subgrade (i.e., there is not a void and there is no longer foam board beneath the concrete pavement).

Subsurface soils encountered within the 15-ft completion depth of the borings made for this exploration generally consist of clayey sand (SC) and silty clay (CL) fill materials and natural weathered Yazoo clays (CH). The clayey sand (SC) and silty clay (CL) fill materials were encountered from the bottom of the concrete pavement to depths ranging from about 4.5 ft to 8 ft below the pavement surface. Medium stiff silty clay (CL) fill materials that are considered to have low-moderate strength and moderate-high compressibility were encountered from the bottom of the concrete pavement to a depth of about 2 ft at Boring 2. The remaining fill materials are considered to have moderate strength and low to moderate compressibility. The silty clay (CL) fill materials are considered to have low shrink/swell potential. The clayey sand (SC) fill materials have no potential for shrinking and swelling.

Weathered Yazoo clays (CH) were encountered beneath the fill materials at depths ranging from 4.5 ft to 8 ft below the pavement surface. Slickensides were noted in some depth intervals. Slickensides are randomly oriented micro-failure planes within clays (CH) caused by differential shrink/swell movements in the geologic past. The weathered Yazoo clays (CH) classified as stiff and are considered to have moderate strength and moderate compressibility. The weathered Yazoo clays (CH) are expansive with very high shrink/swell potential. The weathered Yazoo clays (CH) extended to the 15-ft termination depth of the borings.

4.3 Groundwater

Free water was not encountered during auger drilling for the borings. In our opinion, groundwater conditions at the site will primarily be influenced by rainfall, surface drainage, and by the rise and fall of water levels in nearby ditches, creeks, ponds or other bodies of water. Groundwater conditions at the site can also be influenced by man-made changes. Soils which did not exhibit free water during the short time period of drilling may exhibit water seepage at other times during construction and within excavations that remain open for an extended period of

time or that are permanent. Surficial soils can become saturated and weak to relatively shallow depths during periods of prolonged and heavy rainfall.

5.0 DISCUSSION

5.1 General Soil Conditions

Subsurface soils encountered within the 15-ft completion depth of the borings made for this exploration generally consist of clayey sand (SC) and silty clay (CL) fill materials underlain by natural weathered Yazoo clays (CH). With the exception of the medium stiff silty clay (CL) fill materials encountered at Boring 2, the subsurface soils are generally considered to have moderate and low to moderate compressibility. The medium stiff silty clay (CL) fill materials are considered to have low-moderate strength and moderate-high compressibility. The silty clay (CL) fill materials are considered to have low shrink/swell potential. The clayey sand (SC) fill materials have no potential for shrinking and swelling.

Expansive weathered Yazoo clays (CH) were encountered at depths ranging from 4.5 ft to 8 ft below the pavement surface. The expansive clays (CH) are considered to have very high shrink/swell potential.

5.2 Expansive Clay Considerations

The expansive clay (CH) soils can experience significant shrink/swell movements associated with fluctuations in moisture content. Cover materials overlying expansive clay (CH) soils act as a buffer against moisture content changes caused by rainy weather, droughts and evapotranspiration. Thus, the potential magnitude of moisture content changes and associated shrink/swell movements within expansive clay (CH) soils is proportionate to the thickness of overlying cover materials. Seasonal moisture content changes and shrink/swell movements within expansive clay (CH) soils decrease as the thickness of cover materials increases. There is a general trend for expansive clay (CH) soils under structures to swell due to an increase in water content caused by capillary and vapor phase movement of moisture within the clays (CH). Expansive clay (CH) soils will also experience considerable swelling if directly supplied with water from rainfall, sprinkler systems, broken underground water and sewer pipes, or any other source. Trees growing adjacent to a structure can extract a considerable amount of moisture from

the ground resulting in localized shrinkage of expansive clay (CH) soils accompanied by vertical and lateral movements. Overburden removal associated with the establishment of finished grades lower than existing ground elevations will cause stress relief in expansive clay (CH) soils resulting in long-term rebound. Expansive clay (CH) soils will also experience long-term downhill creep movements, depending on slope steepness.

5.3 Design Considerations

From a geotechnical standpoint, the primary factor relevant to foundation design and construction for the proposed lobby addition is potential shrinking and swelling of the expansive clays (CH). A foundation should be utilized for the new lobby addition that will accommodate the anticipated structural loadings and also minimize future differential vertical movements resulting from either settlement due to soil consolidation under structural loads or unpredictable shrinking and swelling of the expansive clay (CH) soils.

We understand that the existing building is supported on a deep foundation system consisting of belled piers that bear in the unweathered Yazoo clays (CH). Plans are to support the new lobby addition on a shallow foundation system. No undercutting and backfilling are planned to increase the separation between the foundation and the unweathered Yazoo clays (CH). A shallow foundation should be used with the understanding and acceptance of the potential for development of future long-term differential movements. If differential movement caused by shrinking and swelling within the expansive clay (CH) soils is considered detrimental or not acceptable, the appurtenances should be supported above a void space on drilled piers.

Differential movement between structures/appurtenances/pavement supported on grade by a shallow foundation and the pier supported structures will occur. The appropriate buffer thickness is dependent on the magnitude of potential movement that is considered acceptable, with greater buffer thickness generally resulting in lower shrink/swell movements. Buffer thicknesses on the order of 7 ft to 10 ft are typically used for lightly loaded slab-on-grade structures, and buffer thicknesses in the range of 3 ft to 5 ft are often used for pavements and sidewalks, with the understanding that some movement will occur as a result of normal seasonal fluctuations in water content. Unacceptable shrink/swell movements, on the order of 6 in. to 12 in., can result from water leaks or poor drainage, even with a 7-ft to 10-ft thick buffer. It is

generally considered that a buffer thickness on the order of 15 ft will essentially eliminate shrink/swell movements associated with normal seasonal fluctuations in water content.

Based on the conditions encountered in the borings made for this investigation, the thickness of the existing buffer of low shrink/swell soils above the Yazoo clays (CH) is about 4 ft at Borings 1 and 4, 5.5 ft at Boring 5, 6 ft at Boring 2, and 7.5 ft at Boring 3. The lower buffer thicknesses are in the range typically recommended for pavements, but less than typically recommended for structures. We understand that significant swelling and heave has occurred in the past, which suggests the swell potential of the Yazoo clays (CH) is lower today than it was at the time of the original construction. It is not possible to predict the potential future heave based on the available data. We understand that measures will be taken to reduce the potential for additional wetting of the Yazoo clays (CH).

It is our opinion that flexible asphalt concrete or rigid Portland cement concrete pavement can be utilized for the parking lot. As indicated previously, the existing thickness of low shrink/swell buffer soils beneath the existing pavement is in the range typically recommended for pavements. Flexible pavements are more tolerant of differential movement than rigid pavements and, in general, flexible pavements are less costly to maintain if differential movements occur.

Details of our recommendations for site preparation, earthwork construction, and foundation design and construction are included in the following subsections of this report. Guideline recommendations for pavement design and construction are also provided.

6.0 RECOMMENDATIONS

6.1 Site Preparation and Earthwork Construction

Unless otherwise noted, our recommendations for earthwork construction are the same for the building and pavement areas. As an initial step of site preparation within the planned construction areas, existing structures, pavement, any underground utilities or pipes, and any other subsurface obstructions that might interfere with earthwork and foundation construction should be removed and/or relocated. Special care should be taken to thoroughly backfill and compact fill placed in cavities caused by demolition of the existing structures and pavement. The

soils exposed when the existing structures and pavement are removed may be relatively wet and unstable due to trapped moisture beneath the structures/pavement.

Excavation should then be performed to remove weak soils encountered during demolition. As previously mentioned, medium stiff silty clay (CL) fill materials were encountered beneath the concrete pavement at Boring 2. Excavation of weak soils should extend laterally not less than 7 ft beyond the perimeter of the new lobby addition that do not abut the existing building and 3 ft beyond the edge of pavements. The actual vertical and lateral extent of excavation required to remove any weak soils must be determined in the field during earthwork construction.

The soils exposed after stripping and/or excavation should be inspected for the presence of organic matter and other deleterious material and any evidence of poor compaction of previously placed fill. Additional excavation should be performed in any areas containing significant quantities of organic matter and deleterious material. The lateral and vertical extent of excavation required to remove poorly compacted fill soils and fill soils containing significant quantities of organic matter and deleterious material must be determined in the field during earthwork construction. Excavation of these soils should extend laterally not less than 7 ft beyond the perimeter of the new lobby addition that do not abut the existing building and 3 ft beyond the edge of pavements.

In order to minimize the amount of any excavation and undercutting, we recommend that a representative of Burns Cooley Dennis, Inc. be present to observe excavation/undercutting operations and assist in evaluating the depth and lateral extent of any excavation and undercutting required. Depending on the season when earthwork is performed, groundwater could be encountered during any excavation and undercutting. The means and methods for intercepting, collecting and removing groundwater entering excavations should be the sole responsibility of the earthwork contractor.

Prior to the placement of any fill materials, the soils exposed after stripping, any excavation and undercutting should be scarified to a minimum depth of 6 in. and compacted to not less than 95 percent of standard Proctor maximum dry density (ASTM D 698) with stability present. Alternatively, the exposed soils could be proofrolled with loaded dump trucks to demonstrate stability. Excessive proofrolling should be avoided in any areas undercut to remove Yazoo clays. Stability is defined as the absence of significant pumping, rutting or yielding of

soils during compaction or proofrolling. If stability is not evident in some areas, either additional excavation, drying by processing, treatment of the in-situ soils with an admixture, or a combination of these approaches, might be required to achieve stable conditions.

The effort required to mitigate unstable soils will be influenced by the season of the year when earthwork is performed. The subsurface soils would likely be drier during the hot late summer and could weaken during heavy rainfall events. We recommend that earthwork be performed during a dry summer or fall season, if the schedule permits. It should be recognized that soils which are demonstrated to be adequately stable during stripping, any excavation, undercutting, scarification/compaction and/or proofrolling can become unstable if they are disturbed by construction traffic or if they are exposed to rainfall prior to filling.

The on-site fine-grained soils are susceptible to pumping when wet. The construction techniques, types of equipment utilized and site drainage provided during construction will have a great effect on the performance of the fine-grained soils. The routing of heavy, rubber-tired equipment should be controlled to minimize, as much as possible, traffic in the construction areas. All traffic should be discouraged during periods of inclement weather. It should be noted that soils which initially demonstrate adequate stability can become unstable if they are disturbed by construction traffic. If pumping is initiated in the fine-grained soils, as a construction expedient the pumping can be counteracted by treating these materials with hydrated lime. It is estimated that about 4 to 6 percent hydrated lime by dry weight of soil could be required for silty clays (CL). It is estimated that about 6 to 8 percent hydrated lime by dry weight of soil could be required for clays (CH).

We recommend that backfilling and filling to achieve planned grades follow immediately after stripping, any excavation, undercutting, scarification/compaction and/or proofrolling. Imported fill materials should consist of select, nonorganic and debris-free silty clays (CL) having a plasticity index (PI) within the range of 10 to 24 and a liquid limit less than 45, and not less than 70 percent fines passing the No. 200 sieve. The fill soils should be compacted from lifts not exceeding 9 in. in loose thickness to not less than 95 percent of standard Proctor maximum dry density (ASTM D 698) at moisture contents within 3 percentage points of the optimum water content. Where hand-held compactors are used, the loose lift thickness should be limited to a maximum of 5 in. Stability must be evident during compaction of each lift before any subsequent lifts of fill material are added. Fill materials should extend laterally not less than 7 ft beyond the

perimeter of the new lobby addition that do not abut the existing building and not less than 3 ft beyond pavement edges and then slope down to natural ground at an inclination not steeper than 3H:1V. Finished site grades should be sloped to promote quick runoff of storm water and provide positive drainage away from the new lobby addition and across the pavement areas.

Laboratory classification tests, including Atterberg limit determinations and grain-size analyses, should be performed on the fill soils initially and routinely during earthwork operations to check for compliance with the recommendations provided herein. Field moisture/density tests should be performed frequently in the scarified and compacted on-site soils and in each compacted lift of fill material to assist in evaluating whether the recommended moisture contents and dry densities are being achieved. As a guide for building earthwork construction, we suggest a minimum of one test per lift. A frequency of testing considered to be appropriate for the pavement areas is one test per lift for each 5,000 sq ft of surface area or portion thereof.

6.2 Foundation Design Recommendations

We understand the proposed lobby addition will be supported by a shallow foundation system consisting of a slab-on-grade stiffened with perimeter grade beams, or turned-down edges, and interior grade or tie beams. Grade beams should be utilized to support all exterior walls and all interior load bearing walls, or otherwise they should be spaced in a grid pattern on not greater than about 10-ft to 15-ft centers in each direction. Any columns should be supported by widened portions of the grade beams. We recommend that grade beams or turned-down edges around the perimeter of the building be brought to bear at a depth not less than 2 ft below finished outside grade. Interior tie or grade beams should be brought to bear at a depth not less than 1.5 ft below the bottom of the slab. We recommend that grade beams be proportioned for critical combinations of dead, live and wind loads utilizing a net allowable soil bearing pressure of 1,500 lbs per sq ft. A net allowable soil bearing pressure of 2,000 lbs per sq ft should be utilized to dimension widened portions of grade beams used to support column loads. We recommend a minimum base width of 12 in. for the grade beams. The grade beams should be reinforced for both positive and negative bending. The floor slab should be reinforced for anticipated loading conditions and deflections and to minimize slab cracking. We recommend that the slab be reinforced with a grid of relatively closely spaced reinforcing bars in lieu of welded wire fabric.

We recommend that foundation excavations be left open for the shortest possible duration to minimize exposure of the bearing soils to rainfall. Drainage should be maintained away from the foundation excavations during construction. Soils exposed in the bottom of the excavations should be observed prior to concrete placement. If these materials are found to be weak or loose, overexcavation and backfilling will be required to provide strong soils immediately beneath foundation elements.

With proper earthwork as recommended herein and the lobby addition supported on a stiffened slab-on-grade foundation, total settlements under compressive structural loading are expected to be on the order of about 1 in. Differential vertical movements of the foundation resulting from potential long-term volumetric changes within the expansive clays (CH) cannot be predicted with any degree of accuracy; however, if proper drainage is maintained and no other unexpected sources of water develop, they are estimated to be within normally tolerable structural limits for a relatively strong stiffened slab-on-grade foundation. The potential long-term differential movements due to normal seasonal fluctuations in water content within the clays (CH) are generally expected to be on the order of about 3/4 in. over a horizontal distance of about 25 ft to 30 ft, provided that proper drainage is maintained and any leaks that develop in pipes are promptly repaired. It should be noted that differential movements of the magnitude stated in the preceding sentence could result in minor cracking of the foundation, walls and floor slab. The actual magnitude of the differential shrink/swell movements can be influenced by any number of events or circumstances that occur during the life of the building. For example, surface drainage conditions, broken water pipes, trees and shrubs, etc., can influence the actual shrink/swell movements which develop. We emphasize that poor drainage, groundwater or other excess water in the building area could result in significant differential movement, up to several inches over a spacing of about 25 ft to 30 ft, and major cracking of the foundation, walls and floor slab, even with the minimum recommended buffer thickness.

6.3 Guideline Pavement Recommendations

In areas to be paved, there is often some delay between completion of earthwork operations and placement of the pavement structure materials, possibly resulting in deterioration of subgrade conditions. Therefore, we recommend that density and stability of the subgrade soils be confirmed or re-established immediately prior to construction of the pavement.

The existing concrete surfacing within the parking garage may also be replaced under the scope of this project. For the replacement of the existing pavement, either the existing concrete pavement under the building will be replaced with more concrete pavement, or the entire parking lot will be replaced with asphalt pavement.

In our opinion, either flexible asphalt concrete or rigid Portland cement concrete (PCC) pavement can be utilized for the pavement areas. Site preparation and earthwork construction should be performed for the areas to be paved in accordance with the recommendations given in the "Site Preparation and Earthwork Construction" section of this report. Guideline pavement recommendations are given in the following paragraphs that represent typical construction practice. However, we recommend that pavement thicknesses be verified for the actual expected traffic volumes and loadings using appropriate design parameters for the subgrade soils and pavement structure materials. If the subgrade soils are prepared and select fill materials are placed within the areas to be paved in accordance with recommendations provided in this report, it is our opinion that a CBR of 5 would be appropriate to use as the subgrade support value for flexible asphalt concrete pavement. For PCC pavements, it is our opinion that a modulus of subgrade reaction (k) of 150 lbs per cu in. would be appropriate for the subgrade support value. Where a 6-in. thick granular subbase is utilized under PCC pavements as described in this report, the modulus of subgrade reaction can be increased up to 325 lbs per cu in.

It is our opinion that chemical treatment of the subgrade soils with hydrated lime will provide the best performing pavement system during construction and will extend the service life of the pavement. We recommend lime treatment for the top 12 in. of the subgrade utilizing 6 percent hydrated lime by dry weight of soil. The lime-treated subgrade soils should be compacted to not less than **98 percent** of standard Proctor maximum dry density (ASTM D 698). The lime treatment should be in accordance with Section 307 of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction using the Class C lime treatment procedure. The lime treatment should extend not less than 2 ft beyond the back of curb or edge of pavement.

For light automobile and pickup truck traffic, the flexible pavement structure could consist of a 2-in. thick asphalt surface course and a 4-in. thick asphalt base course on the prepared subgrade soils. A thicker asphalt concrete pavement section should be utilized if the flexible pavement will be subjected to heavy truck traffic. For the heavier loading, the flexible

pavement structure could consist of a 2-in. thick asphalt surface course and a 6-in. thick asphalt base course on the prepared subgrade soils. The asphalt concrete surface course materials should conform with all applicable specifications for SC-1, Type 8 presented in the 1990 Edition of the Mississippi Standard Specifications for Road and Bridge Construction. The asphalt concrete base course materials should conform with all applicable specifications for BB-1, Type 6.

For rigid pavement, jointed plain (unreinforced) PCC pavement can be utilized with limited use of steel reinforcement such as described herein. The minimum compressive strength of the concrete mixture should be 4,000 lbs per sq in. It is our opinion that a 5-in. thick PCC pavement cast directly upon the prepared subgrade soils would be appropriate for light automobile and pickup truck traffic. For heavy truck traffic, a 7-in. thick PCC pavement directly underlain and separated from the prepared subgrade soils by a granular subbase would likely be required. We recommend the use of 8-in. thick PCC pavement directly underlain and separated from the prepared subgrade soils by a granular subbase immediately in front of any garbage dumpsters to provide support for the wheels of a garbage truck during loading.

We recommend the use of a 6-in. thick granular subbase directly under PCC pavements that support heavy truck traffic. This granular subbase is part of the pavement structure and prevents subgrade soils from pumping up through joints. We recommend that the granular subbase materials consist of No. 610 crushed limestone. The portion of the crushed limestone passing the No. 40 sieve should have a liquid limit not greater than 25 and a plasticity index not greater than 5. The crushed limestone should be compacted to not less than **100 percent** of standard Proctor maximum dry density (ASTM D 698) at moisture contents within 2 percentage points of the optimum water content. The pavement surface should be sufficiently elevated to allow drainage of the granular subbase.

General guidance for the design and construction of PCC pavements is presented in ACI 330 “Guide for the Design and Construction of Concrete Parking Lots,” including proper jointing, thickened edges that receive heavy truck traffic, thickened edges or load transfer devices at construction joints, tie-bars, and steel reinforcement in irregular shaped slabs or panels. Joints should form panels that are approximately square with the longest panel dimension no more than 1.25 times the shortest panel dimension. The maximum joint spacing should be 10 ft for 5-in. thick and 15 ft for the 7-in. or 8-in. thick PCC pavements. The pavement joints should be properly sealed and maintained. We recommend that a jointing plan and details be developed

for construction of the PCC pavements. Burns Cooley Dennis, Inc. can be contracted to provide this additional service if we are provided with a CAD file of the proposed site. As an alternative, BCD can be contracted to review and approve jointing layouts and details that are generated by others. The surface of the pavement should be crowned and sloped to promote quick runoff of storm water.

6.4 Other Design and Construction Considerations

The new lobby addition will abut the existing building. Differential movement could occur between the new lobby addition and the existing building. The structural and architectural designs should incorporate connections between the existing building and the new lobby addition which accommodate or aesthetically hide differential movement at the foundation/floor level, walls and roofs. To prevent abrupt differential vertical movement where the new lobby abuts the existing building, the new and existing foundations could be doweled together. An expansion joint could be utilized between the new lobby addition and the existing building to accommodate differential movement.

Care should be taken while excavating/undercutting adjacent to the existing building to avoid undermining existing structural elements and utilities. The need to excavate/undercut immediately adjacent to the existing building should be evaluated during construction based on inspection of the soils exposed after demolition and during any excavation/undercutting. To minimize exposure of the existing building foundations to undermining, excavating/undercutting and backfilling adjacent to the existing building should be conducted in relatively narrow segments as measured parallel to the building and/or underpinning the existing foundations and slabs might be needed.

If flower and shrub beds including sprinkler systems are placed adjacent to the new lobby addition, the beds should be prepared such that they do not trap water, and sprinklers should be operated only enough to satisfy the water demands of the plants and shrubs. Excessive watering and ponding within the flower and shrub beds could result in downward percolation of water into the underlying foundation soils causing them to lose strength and causing expansive clays (CH) to swell. Rainwater falling on the roof of the building should be collected and prevented from reaching the ground immediately adjacent to the building. Downspouts extending from roof gutters should be equipped with extensions at ground level that are sloped to emit collected

rainwater not less than 7 ft away from the building. The downspouts could be connected to solid discharge pipes buried beneath the ground. We caution that these pipes should be flexible enough to accommodate some differential movement and all pipe connections must be leak free.

Trees remove water from the ground by transpiration causing vertical and horizontal shrinkage of fine-grained soils. To minimize these effects, we recommend that any trees planted for landscaping purposes be located at least one-half their anticipated mature height away from the building. If the risk of more movement is acceptable to the owner, a less strict building-to-tree spacing of about 25 ft for hardwoods and 15 ft for pines could be utilized.

Final grades around the building should provide rapid and effective drainage of rainwater and downspout water away from the building, with no areas allowed for water to pond. Underground sources of water such as leaking water lines, sewer lines, etc., should be prevented as much as possible in the initial construction, and any leaks that develop should be promptly repaired.

The site for the new MIND Center and Geriatric Clinic Additions in Jackson, Mississippi lies within a relatively low seismic activity region according to the seismic zone mapping referenced in the International Building Code. Given the site soil profile as revealed by the borings and anticipated for the area based on our experience, a site class D could be used in a seismic load evaluation.

7.0 REPORT LIMITATIONS

The analyses, conclusions, and recommendations discussed in this report are based on conditions as they existed at the time of our field exploration and further on the assumption that the exploratory borings are representative of subsurface conditions throughout the areas explored. It should be noted that actual subsurface conditions between and beyond the borings might differ from those encountered at the boring locations. If subsurface conditions are encountered during construction that vary from those discussed in this report, Burns Cooley Dennis, Inc. should be notified immediately in order that we may evaluate the effects, if any, on earthwork, foundation and pavement design and construction.

Burns Cooley Dennis, Inc. should be retained for a general review of final design drawings and specifications. It is advised that we be retained to observe earthwork, foundation

and pavement construction for the project in order to help confirm that our recommendations are valid or to modify them accordingly. Burns Cooley Dennis, Inc. cannot assume responsibility or liability for the adequacy of recommendations if we do not observe construction.

This report has been prepared for the exclusive use of the Foil Wyatt Architects & Planners, PLLC for specific application to the geotechnical-related aspects of design and construction for the new lobby and possible repaving at the MIND Center and Geriatric Clinic located at 1405 North State Street in Jackson, Mississippi. The only warranty made by us in connection with the services provided is we have used that degree of care and skill ordinarily exercised under similar conditions by reputable members of our profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended.

FIGURES

LOT 3 DOBYNS SUBDIVISION
LOT 4 DOBYNS SUBDIVISION



SCALE: 1" = 30'

STATE STREET
(PAVED PUBLIC STREET)

WEBSTER STREET
(PAVED PUBLIC STREET)

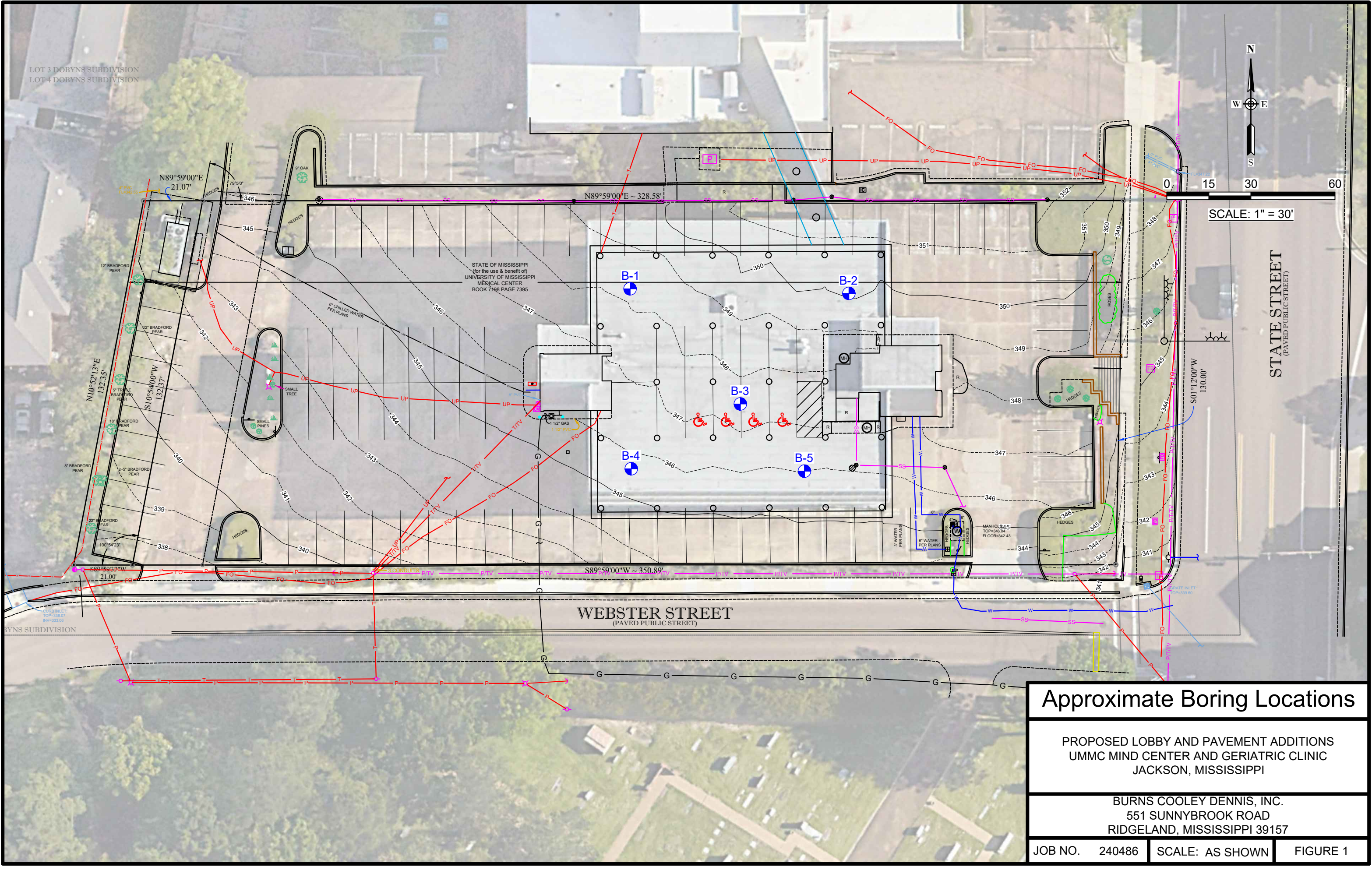
STATE OF MISSISSIPPI
(for the use & benefit of)
UNIVERSITY OF MISSISSIPPI
MEDICAL CENTER
BOOK 7188 PAGE 7395

Approximate Boring Locations

PROPOSED LOBBY AND PAVEMENT ADDITIONS
UMMC MIND CENTER AND GERIATRIC CLINIC
JACKSON, MISSISSIPPI

BURNS COOLEY DENNIS, INC.
551 SUNNYBROOK ROAD
RIDGELAND, MISSISSIPPI 39157

JOB NO. 240486 SCALE: AS SHOWN FIGURE 1

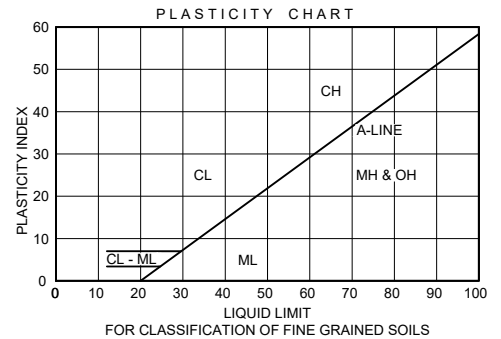


UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		SYMBOL & LETTER	DESCRIPTION	
COARSE-GRAINED SOILS	GRAVELS More than half of coarse fraction larger than No.4 sieve size	Clean Gravels (Little or no fines)	GW WELL GRADED GRAVEL, GRAVEL-SAND MIXTURE	
		Gravels with fines (Appreciable amount of fines)	GP POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURE	
		SANDS More than half of coarse fraction smaller than No.4 sieve size	Clean Sands (Little or no fines)	GM SILTY GRAVEL, GRAVEL-SAND-SILT MIXTURE
			Sands with fines (Appreciable amount of fines)	GC CLAYEY GRAVEL, GRAVEL-SAND-CLAY MIXTURE
	FINE-GRAINED SOILS	SANDS	Clean Sands (Little or no fines)	SW WELL GRADED SAND, GRAVELLY SAND
			Sands with fines (Appreciable amount of fines)	SP POORLY GRADED SAND, GRAVELLY SAND
			Sands with fines (Appreciable amount of fines)	SM SILTY SAND, SAND-SILT MIXTURE
			Sands with fines (Appreciable amount of fines)	SP-SM SLIGHTLY SILTY SAND
		SILTS AND CLAYS	Liquid limit less than 50	SC CLAYEY SAND, SAND-CLAY MIXTURE
			SILTS AND CLAYS	Liquid limit less than 50
Liquid limit less than 50				ML CLAYEY SILT, SILT WITH SLIGHT TO MEDIUM PLASTICITY
Liquid limit less than 50				ML SANDY SILT
Liquid limit less than 50				CL SILTY CLAY, LOW TO MEDIUM PLASTICITY
Liquid limit less than 50			CL SANDY CLAY, LOW TO MEDIUM PLASTICITY (30% TO 50% SAND)	
SILTS AND CLAYS	Liquid limit greater than 50	MH SILT, FINE SANDY OR SILTY SOIL WITH HIGH PLASTICITY		
	Liquid limit greater than 50	CH CLAY, HIGH PLASTICITY		
	Liquid limit greater than 50	OH ORGANIC CLAY OF MEDIUM TO HIGH PLASTICITY		
	Liquid limit greater than 50	PT PEAT, HUMUS, SWAMP SOIL		
HIGHLY ORGANIC SOILS		PT	PEAT, HUMUS, SWAMP SOIL	
SEDEMENTARY ROCK TYPES:		LS	LIMESTONE	
		MARL	MARL	

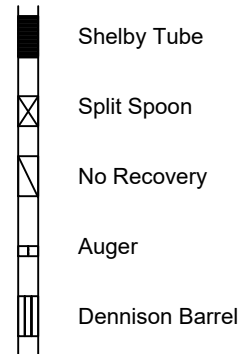
TERMS CHARACTERIZING SOIL STRUCTURE

Slickensided	- Clays with polished and striated planes created as a result of volume changes related to shrinking, swelling and/or changes in overburden pressure.
Fissured	- Clays with a blocky or jointed structure generally created by seasonal shrinking and swelling.
Laminated	- Composed of thin alternating layers of varying color and texture.
Calcareous	- Containing appreciable quantities of calcium carbonate.
Parting	- Paper thin (less than 1/8 inch).
Seam	- 1/8 inch to 3 inch thickness.
Layer	- Greater than 3 inches in thickness.



SAMPLE TYPES

(Shown in Sample Column)



DENSITY AND CONSISTENCY

COARSE-GRAINED SOILS		FINE-GRAINED SOILS		
PENETRATION RESISTANCE, N		COHESION		PENETRATION RESISTANCE, N
DENSITY	Blows per Foot	CONSISTENCY	Kips/Sq. Ft	Blows per Foot
Very loose	0 - 4	Very Soft	<0.25	0 - 1
Loose	5 - 10	Soft	0.25 - 0.50	2 - 4
Medium Dense	11 - 30	Medium Stiff	0.50 - 1.00	5 - 8
Dense	31 - 50	Stiff	1.00 - 2.00	9 - 15
Very Dense	>50	Very Stiff	2.00 - 4.00	16 - 30
		Hard	>4.00	>30

PARTICLE SIZE IDENTIFICATION

Cobbles	- Greater than 3 inches
Gravel	- Coarse - 3/4 inch to 3 inches Fine - 4.76 mm to 3/4 inch
Sand	- Coarse - 2 mm to 4.76 mm Medium - 0.42 mm to 2 mm Fine - 0.074 mm to 0.42 mm
Silt & Clay	- Less than 0.074 mm

RELATIVE COMPOSITION

Slightly	5 - 15%
With	16 - 29%
Sandy	30 - 50%
(or gravelly)	

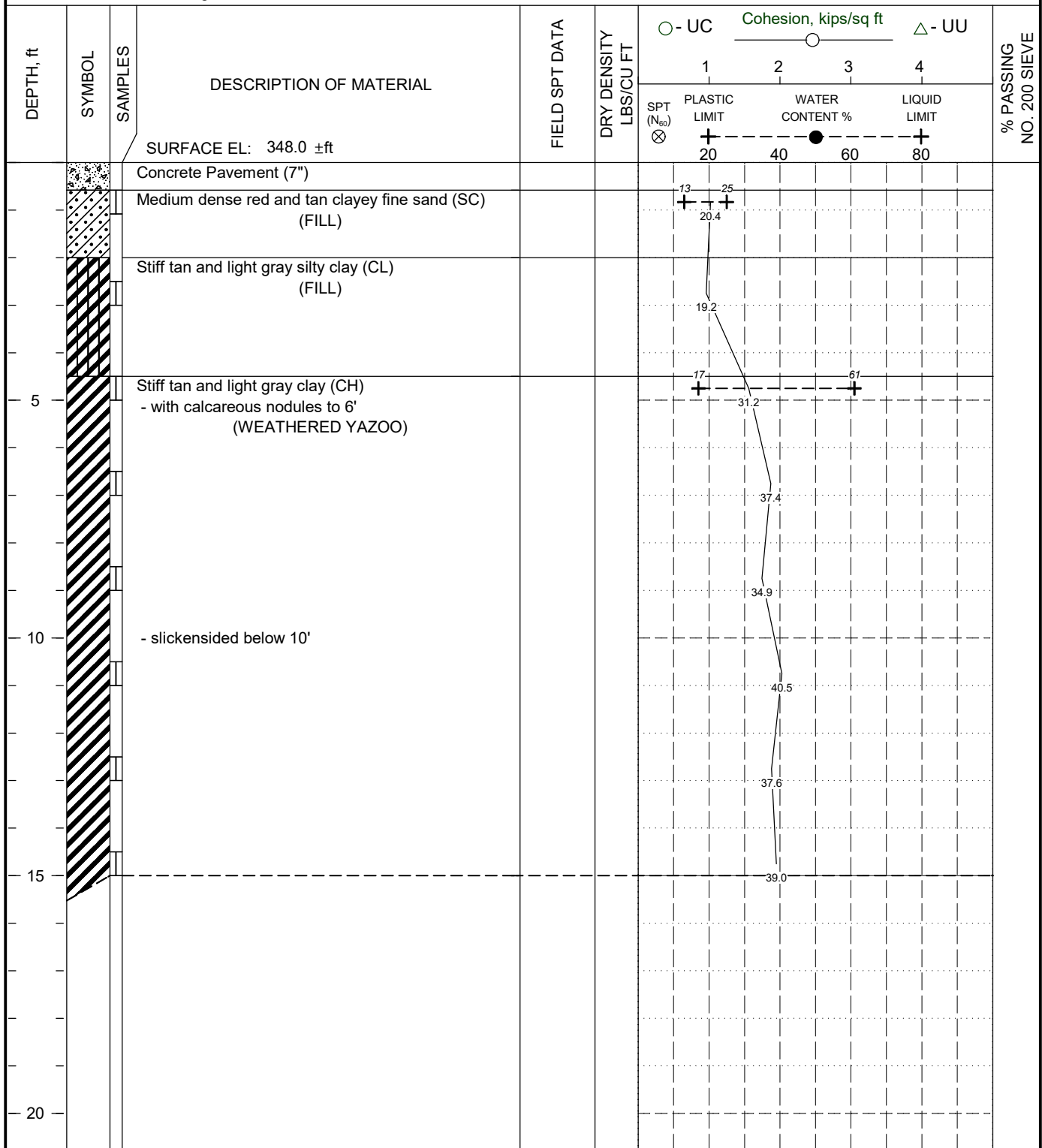
CLASSIFICATION, SYMBOLS AND TERMS USED ON GRAPHICAL BORING LOGS

LOG OF BORING NO. 1

PROPOSED LOBBY AND PAVEMENT ADDITIONS UMMC MIND CENTER AND GERIATRIC CLINIC JACKSON, MISSISSIPPI

TYPE: 3" Hand auger

LOCATION: See Figure 1



BORING DEPTH: 15 ft	COMMENTS: Borehole backfilled with cuttings and sealed at surface with Quikrete.	GROUNDWATER DATA: No free water encountered during auger drilling.
DATE: 09/30/24	GPS Coordinates N 32° 19' 6.5" W 90° 10' 43.7"	

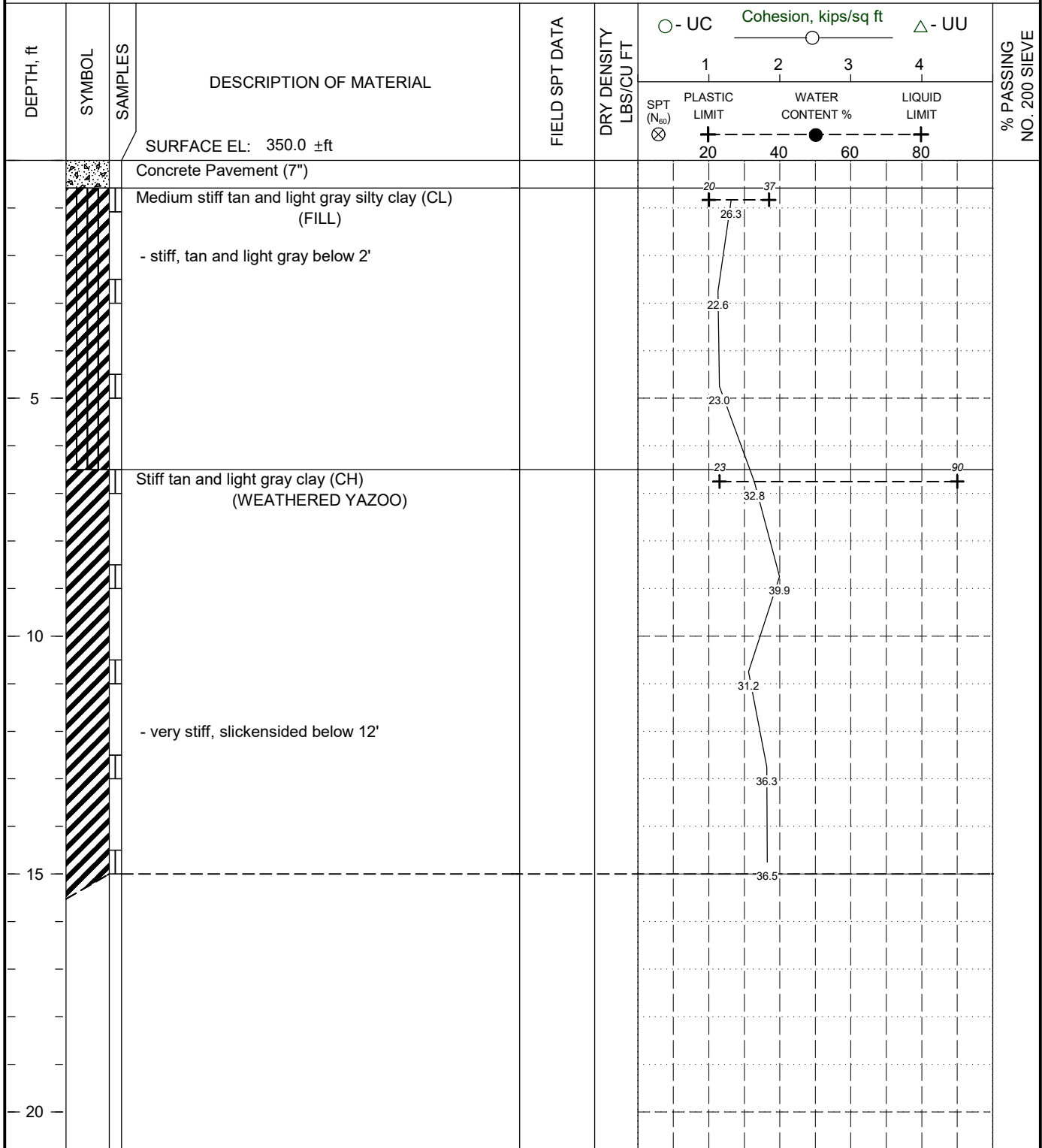
240486.GPJ

LOG OF BORING NO. 2

PROPOSED LOBBY AND PAVEMENT ADDITIONS
UMMC MIND CENTER AND GERIATRIC CLINIC
JACKSON, MISSISSIPPI

TYPE: 3" Hand auger

LOCATION: See Figure 1



BORING DEPTH: 15 ft

COMMENTS: Borehole backfilled with cuttings and sealed at surface with Quikrete.
GPS Coordinates
N 32° 19' 6.5"
W 90° 10' 43.7"

GROUNDWATER DATA: No free water encountered during auger drilling.

DATE: 09/30/24

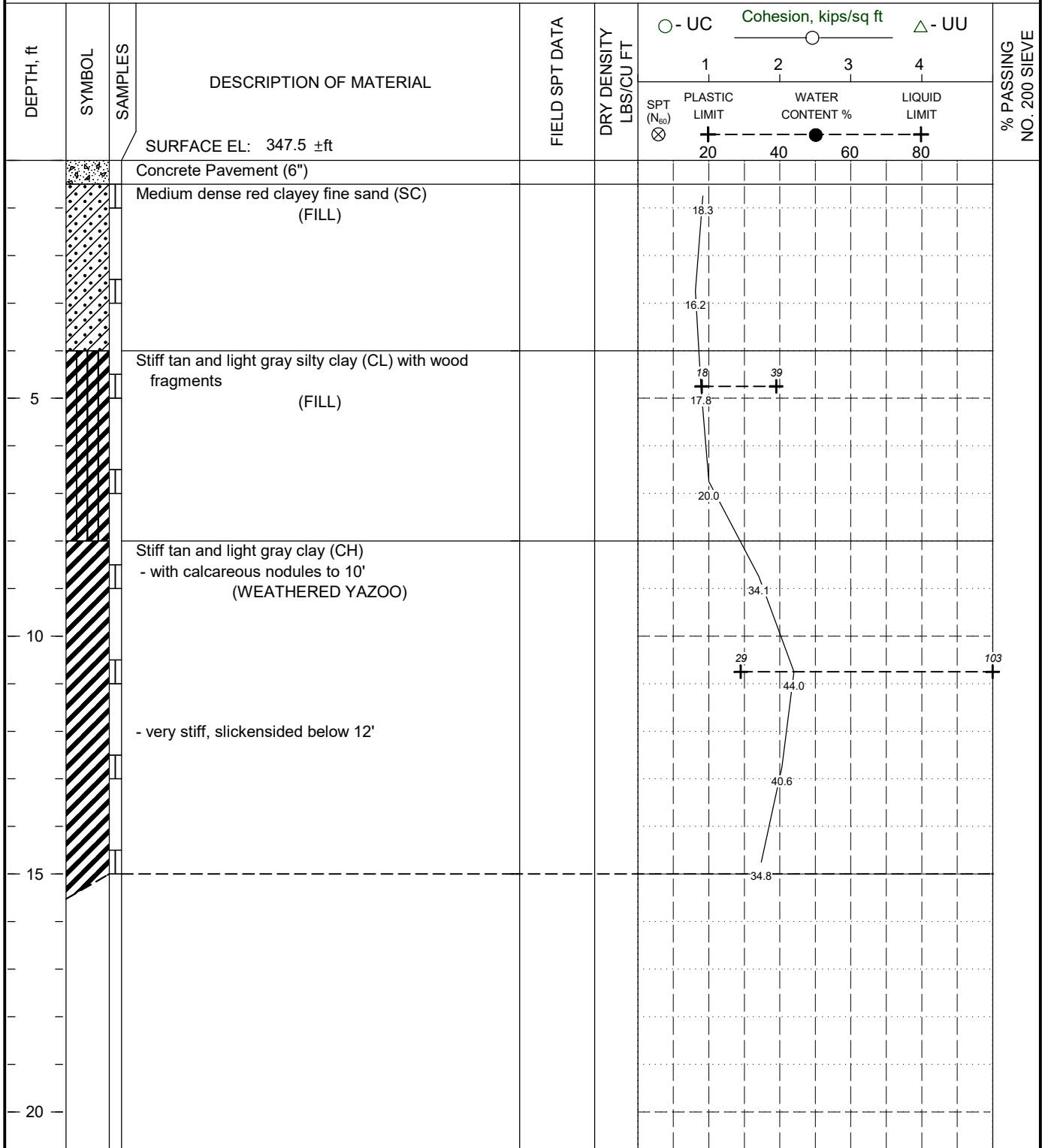
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LOG OF BORING NO. 3

PROPOSED LOBBY AND PAVEMENT ADDITIONS
UMMC MIND CENTER AND GERIATRIC CLINIC
JACKSON, MISSISSIPPI

TYPE: 3" Hand auger

LOCATION: See Figure 1



BORING DEPTH: 15 ft

COMMENTS: Borehole backfilled with cuttings and sealed at surface with Quikrete.
GPS Coordinates
N 32° 19' 6.1"
W 90° 10' 44.2"

GROUNDWATER DATA: No free water encountered during auger drilling.

DATE: 09/30/24

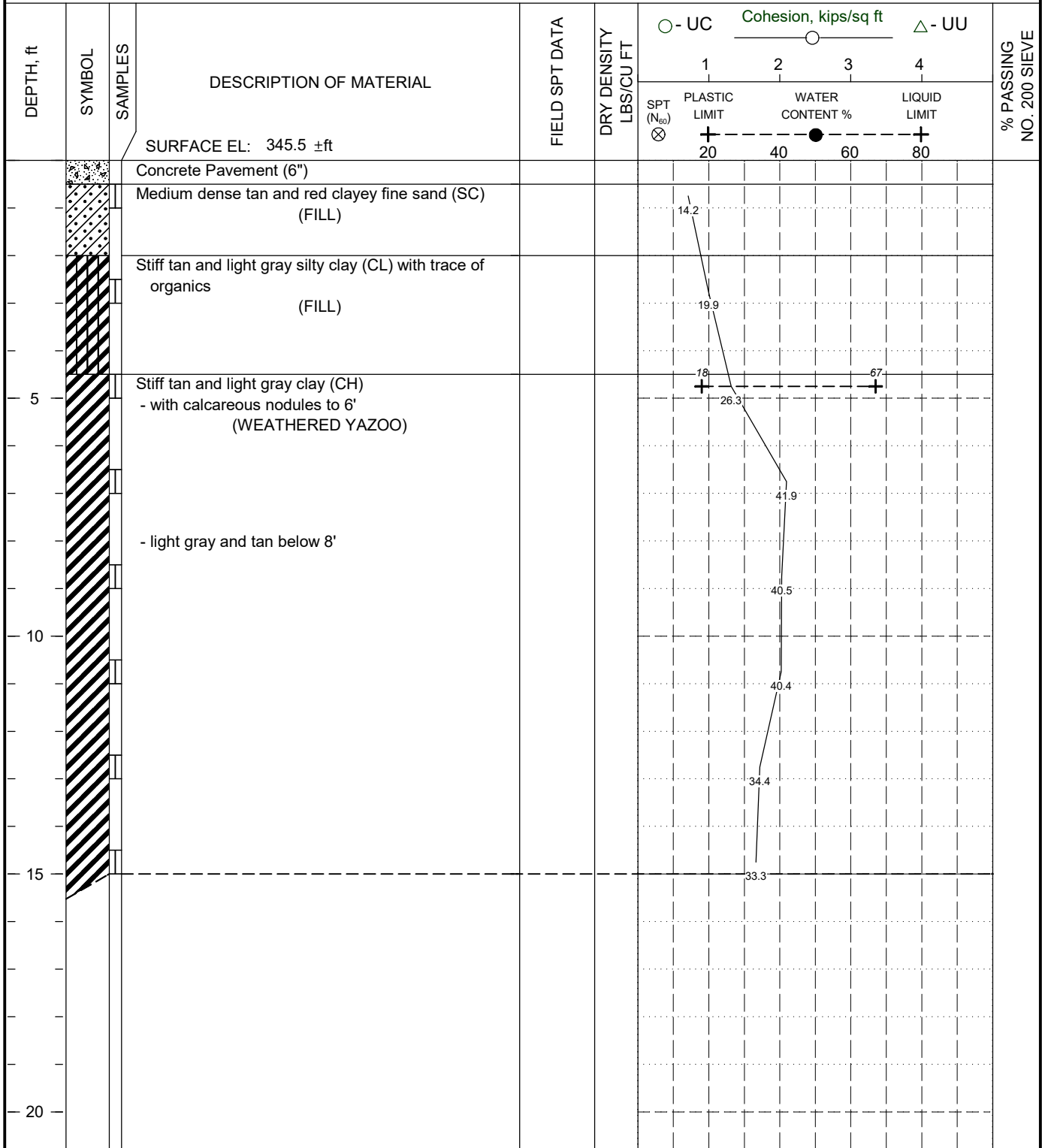
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LOG OF BORING NO. 4

PROPOSED LOBBY AND PAVEMENT ADDITIONS
UMMC MIND CENTER AND GERIATRIC CLINIC
JACKSON, MISSISSIPPI

TYPE: 3" Hand auger

LOCATION: See Figure 1



BORING DEPTH: 15 ft

DATE: 09/30/24

COMMENTS: Borehole backfilled with cuttings and sealed at surface with Quikrete.
GPS Coordinates
N 32° 19' 5.9"
W 90° 10' 44.7"

GROUNDWATER DATA: No free water encountered during auger drilling.

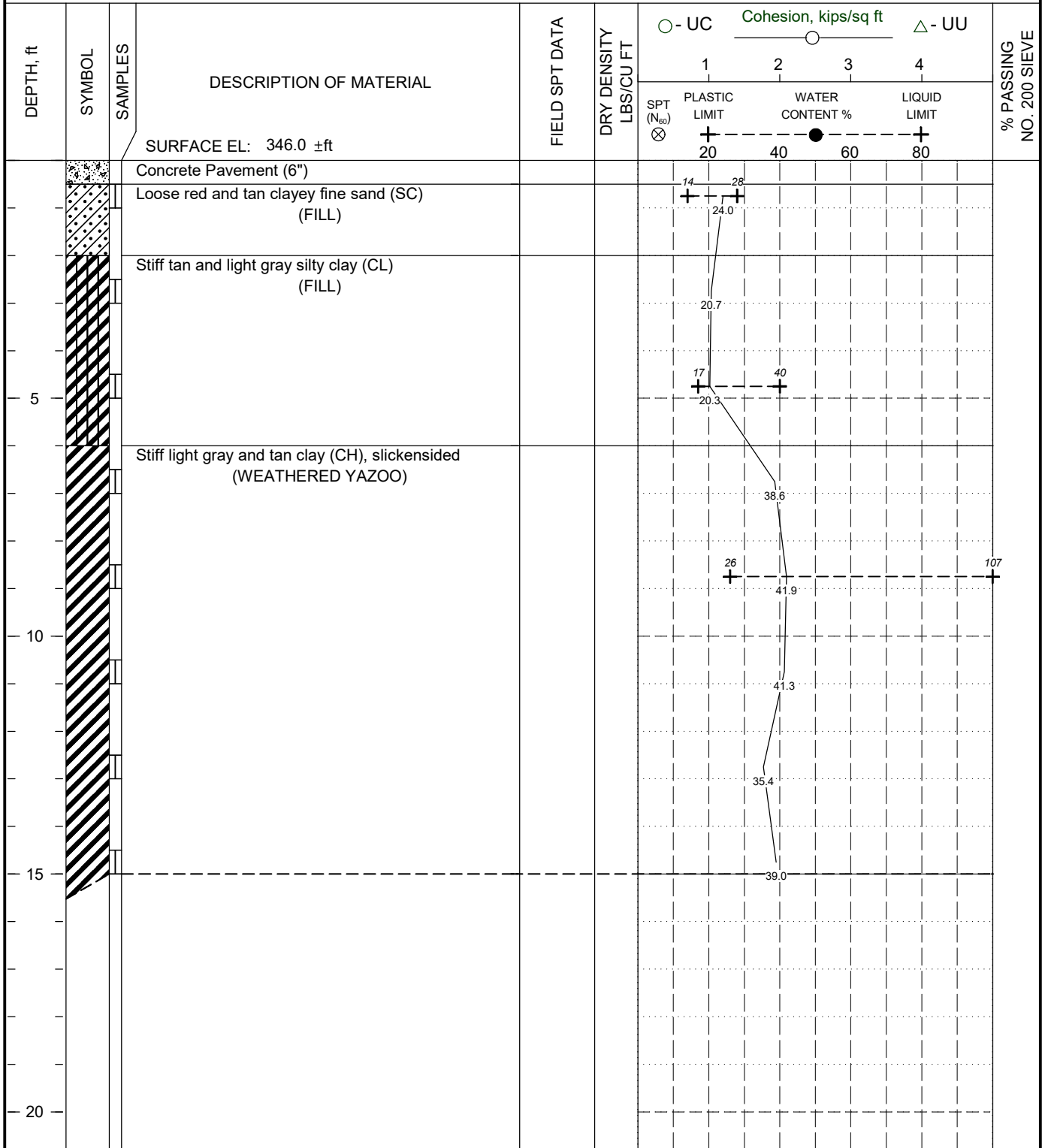
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LOG OF BORING NO. 5

PROPOSED LOBBY AND PAVEMENT ADDITIONS UMMC MIND CENTER AND GERIATRIC CLINIC JACKSON, MISSISSIPPI

TYPE: 3" Hand auger

LOCATION: See Figure 1



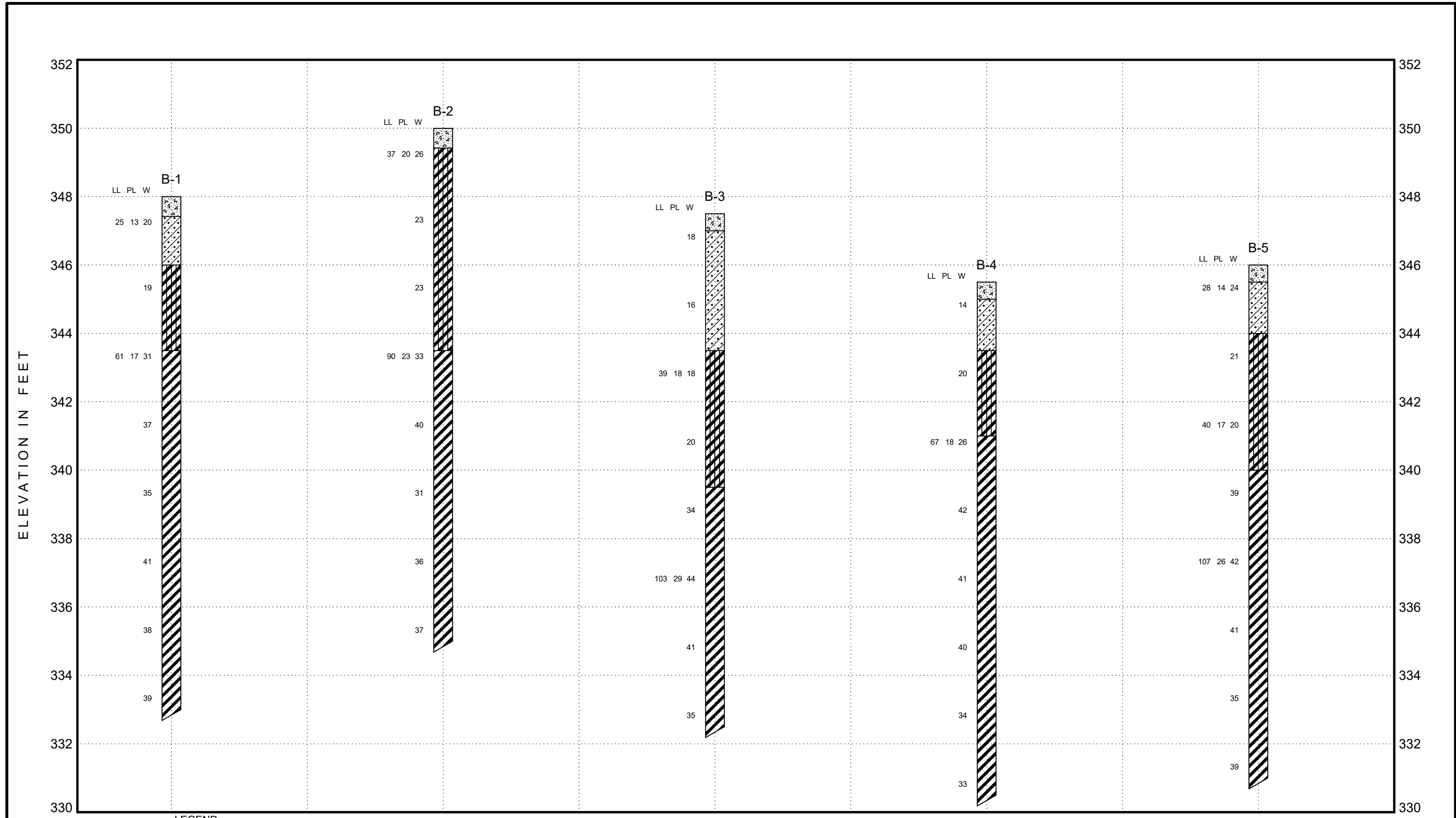
BORING DEPTH: 15 ft

COMMENTS: Borehole backfilled with cuttings and sealed at surface with Quikrete.
GPS Coordinates
 N 32° 19' 5.9"
 W 90° 10' 44.7"

GROUNDWATER DATA: No free water encountered during auger drilling.

DATE: 09/30/24

240486.GPJ



LEGEND:
 LL = Liquid Limit
 PL = Plastic Limit
 W = Water Content
 DD = Dry Density (pcf)
 C/N = Cohesion (ksf)/Penetration
 Resistance, N (blows per ft)
 in the same column
 % -200 = % Passing No. 200 Sieve

NOTE: See Figure 2 for boring log legend.

SUBSURFACE SOIL PROFILE				
PROPOSED LOBBY AND PAVEMENT ADDITIONS UMMC MIND CENTER AND GERIATRIC CLINIC JACKSON, MISSISSIPPI				
Job No.	240486	Date	9/30/2024	Figure 8

GENERIC ELEVATION (FEET) P. 6/24

SECTION 102813

TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Furnish and install all toilet accessories as indicated on the drawings.

1.2 SUBMITTALS

- A. Submit manufacturer's product literature indicating the quantity of each accessory for inclusion in the project.
- B. Submittal shall include the type of anchoring devices intended to be used for fastening the accessories to the various types of wall construction.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Toilet accessories shall be the make and/or model number of the manufacturer listed for each item or approved equal.
- B. Washroom accessories include those items specified herein and those shown on the contract documents.
- C. Grab bars as indicated on plans and elevations shall be equal to Tubular Specialties Manufacturing, Inc., Bradley Corp., Basco, Inc., Bobrick Washroom Equipment, Inc., or equal. Bars shall be 18 gauge stainless steel, 1-1/4" outside diameter, concealed mounting, knurled, and satin finish.
 - 1. GB-1: Bobrick #B-550.99 x 42"
 - 2. GB-2: Bobrick #B-550.99 x 36"Note: GB-1 and GB-2 shall be at all toilet locations.
- D. Recessed specimen pass-through cabinets are equal to Bobrick Model B-505.
 - 1. Type 304 stainless steel, satin finish.
 - 2. Self-closing doors with interlocking mechanism to prevent both doors from being open at the same time.
 - 3. Removeable stainless steel tray
 - 4. Size: 10 9/16" x 11 1/4" x 6"
- E. Additional washroom accessories in all toilet rooms shall be equal to Tubular Specialties Manufacturing, Inc., Georgia Pacific, Johnson & Johnson, Grainger, Dyson, Bradley Corp., Bobrick Washroom Equipment, Inc. or equal and include the following:
 - 1. Robe Hook (RH): Bobrick #B-212 (Provide one per toilet room door)
 - 2. Toilet Paper Dispensers (TPD): Georgia Pacific #56784

3. Soap dispenser (SD): Johnson & Johnson #155404.
4. Electric hand dryer (HD): Wall mounted, Dyson Air Blade 9KJ, stainless steel.
5. Fixed mirrors with perimeter channels by mirror supplier. See Section 08 8100.

F. Other required accessories shall be:

1. Exam rooms and vitals: one sanitizer foam dispenser - Johnson & Johnson #2D35Q5 and two exam glove holders - Grainger #48WE92.
2. Elevator lobbies and waiting room lobbies: one sanitizer foam dispenser - Johnson & Johnson #2D35Q5.

2.2 MATERIALS

- A. All exposed metal to be triple-plated heavy chrome over nickel and copper. Accessories shall be furnished complete with mounting devices and fastening as specified herein.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Prior to installation of washroom accessories, ensure all required and necessary blocking is securely in place for mounting and attachment.
- B. Install washroom accessories securely with proper fasteners in accordance with manufacturer's instructions and recommendations.
- C. Remove all temporary labels and protective coatings.

END OF SECTION

UMMC - MIND Center
SW#224107
Addendum No. 1
October 27, 2025

A. GENERAL

1. The project plans and specifications are updated to show all the data wiring, terminations, testing, racks, patch panels and patch cables to be provided and installed by the Division 27 Contractor.
2. The project plans and specifications are updated to show the camera/ CCTV system including wiring, terminations, testing, cameras, power supplies, mounting hardware, etc. to be provided and installed by the Division 27 Contractor.
3. The project plans and specifications are updated to show all the Paging System including wiring, terminations, testing, speakers, power supplies, mounting hardware, etc. to be provided and installed by the Division 27 Contractor.

DIVISION 27 - COMMUNICATION SYSTEMS

TABLE OF CONTENTS

270010	Communication Systems	270010 -1 / 2
270030	Electrical Equipment/Material Submittals	270030 -1 / 2
270110	Telecommunication Cabling System	270110 -1 / 9
270130	Intercommunication System	270130 -1 / 2
270140	Paging System	270140 -1 / 1
270150	Access Controls	270150 -1 / 12
270170	Closed Circuit Television System	270170 -1 / 2
270200	UMMC DIS Cabling Standard v 10.1	270200 -1 / 54

END OF DIVISION 27 TABLE OF CONTENTS

270010 COMMUNICATION SYSTEMS

1. GOVERNING CLAUSE

- 1.1 For the sake of brevity, these specifications may omit phrases such as “Contractor shall provide”, “unless otherwise indicated or specified”, etc., but these phrases are nevertheless implied. Mention of materials and operations requires the Contractor to furnish, install and connect such materials and perform such operations to provide a complete and operating system to the satisfaction of the Professional.

2. GENERAL CONDITIONS

- 2.1 The General Conditions, Supplementary General Conditions, Information to Bidders, General Requirements, Addenda, Alternates and other pertinent documents issued by the Professional are a part of these specifications and shall be complied with in every respect.
- 2.2 Notwithstanding any reference in the specifications to any equipment, material or type of construction by name, make or catalog number, such reference shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition. Where the phrase “or approved equal” is used in the Division 27 Specification, substitute equipment, equivalent in all respects to that specified, of any qualified manufacturer is permitted with the written approval of the Professional. Approval will not be considered until after award of contract and only if submitted by the successful Contractor. Where a list of manufacturers and/or catalog numbers is provided and the phrase “or approved equal” is omitted, substitute equipment, equivalent in all respects to that specified, from one of the listed manufacturers is permitted with the written approval of the Professional.
- 2.3 In addition to these specifications all equipment, material and work shall comply with the UMMC - DIS Cabling Standard v10.1 dated 11-7-2023.

3. TEST AND OBSERVATIONS

- 3.1 The complete project shall be, during and/or after construction, subject to the tests and observations as herein described and as noted on the drawings. Deficiencies found as a result of these tests and observations shall be corrected by the Contractor within a reasonable period and at no expense to the Owner.
- 3.2 The complete project shall be subject to observations and tests conducted by the Professional or for him in his presence. Upon notice, the Contractor shall furnish not to exceed two men, one to include the job foreman, and tools to assist and be directed by the Professional for a reasonable amount of time to make such tests and observations as are requested by the Professional.
- 3.3 The complete project shall be subject to observations and tests conducted by any Federal, State and/or local authority having jurisdiction. The Contractor shall make all corrections of any deficiencies required by the authority having jurisdiction to allow building occupancy.

3.4 The complete project shall be subject to observations and tests conducted by the Owner's Insurance carrier. After inspection by this agency, Contractor shall make corrections of any deficiencies found adversely affecting the insurance to be carried by the Owner. Acceptance of this report or subsequent reports lie with the Professional or Owner.

4. RECORD DOCUMENTS

4.1 The contractor shall provide to the Professional with Close-Out Documents the following:

- a. Two (2) sets of blue line "as-built" prints of same scale as original drawings legibly marked in red showing all variations in the installed work from the requirements of the original contract drawings. The "as-built" drawings shall include all addenda, approved and installed change orders, field condition changes and other departures from the original plans and specifications.
- b. Three (3) sets of shop drawings and other data required by the specifications reflecting the manufacturer's shop fabrication of the materials actually installed. The Division 27 shop drawings shall be separately post bound, indexed and tabbed by specification section. Faxed or copies of faxed material shall NOT be used in Close-Out Documents.
- c. Operation and maintenance manuals and manufacturer's instructions for all equipment and systems installed.
- d. Copy of all system reports equipment or material test as required by this specification.

5. GUARANTEE

5.1 The Contractor shall guarantee to the Owner all work performed under this contract to be free from defects in workmanship and materials for a period of one year from the date of final acceptance by the Professional and the Owner except as hereinafter noted.

5.2 The Contractor shall correct, repair and/or replace upon notice from the Owner or his authorized representative within a reasonable period of time any defects in the work performed under this contract arising during the warranty period. This repair work shall be provided at no additional cost to the Owner.

6. COMMUNICATION SYSTEMS SCHEDULE

6.1 Provide and connect all equipment and materials for complete and operative systems as follows:

Telecommunication Cabling System.
Intercommunication System.
Paging System
Access Controls
Closed Circuit Television System
Miscellaneous Systems as shown on the drawings or stated herein.

- END OF SECTION 270010 -

270110 TELECOMMUNICATION CABLING SYSTEM

A. GENERAL

1. CODES and STANDARDS

- 1.1 Shall be installed in the telecommunication raceway system(s) as shown and/or noted on the drawings and herein specified. The cabling system though not shown on the drawings shall be furnished and installed by the contractor to accomplish the intent of the system as shown on the drawings by symbols and as herein specified.
- 1.2 Applicable requirements listed in the following sections shall apply: Section 260110 "Raceways and Fittings", Section 260120 "Boxes and Fittings" and Section 260510 "Telecommunication Raceway Systems."
- 1.3 All work shall comply with the applicable codes and standards as issued by NEC, ANSI/EIA/TIA, BISC, IEEE, UL and NFPA.
- 1.4 In addition to the specification all equipment, material and work shall comply with the Section 270200 "UMMC - DIS Cabling Standard v10.1 dated 11-7-2023". A copy of this document is included in these specifications. Where there are differences between this Div 27 specification and the UMMC - DIS Cabling Standard, the UMMC document shall govern and be used.

2. SCOPE OF WORK

- 2.1 The Contractor shall furnish all equipment, material and labor required to provide and connect in accordance with this specification and applicable drawings a fully operational Structured Telecommunication Cabling Distribution System, hereinafter referred to as the "System" in this section of the specifications, to the complete satisfaction of the Professional.
- 2.2 It is the intent of the drawings and this specification to provide a complete and operational System ready for the Owner's use. All equipment, accessories and/or material necessary for the proper operation of the System as herein specified not specified or described herein but normally provided in similar systems shall be deemed part of the specifications and shall be provided by the Contractor.

3. CONTRACTOR QUALIFICATIONS

- 3.1 The structured cabling system Contractor, hereinafter referred to as the "Contractor" in this section of the specifications, shall be an experienced firm regularly engaged in the design and installation of cabling systems of similar size and complexity as required for this project and have the following minimum qualifications:
 - a. Personnel trained and certified in the design of the approved structured telecommunication cabling system to be provided.

- b. Personnel trained and certified to install and connect the approved structured telecommunication cabling system to be provided.
 - c. Personnel knowledgeable in local, state, province and national codes and regulations.
 - d. Personnel trained and certified in fiber optic cabling splicing, termination and testing techniques. These personnel must also have experience using a light meter and OTDR.
 - e. Personnel trained in the installation of pathways and supports for housing telecommunication horizontal and backbone cabling.
 - f. A minimum of one Registered Communications Distribution Designer (RCDD) who is a permanent employee of the structured cabling system Contractor.
 - g. Possess required licenses/permits to perform telecommunications installations in the jurisdiction in which the project is located.
- 3.2 Provide with the System(s) shop drawings a copy of all certifications and registrations of the Contractor's personnel that will be involved with the design and/or installation of the System(s).
- 3.3 The required RCDD shall be a responsible party in the Contractor's management and/or installation team for this project and shall be fully aware of the day-to-day operations of the project. The RCDD shall as a minimum make regular visits to the project site during the installation of the associated System raceways and cabling as required to insure proper installation of each per this specification and applicable codes and standards. The RCDD shall affix his stamp to the Contractor's shop drawings, as-built drawings, etc. to indicate that he has reviewed the item and that it is complete and accurate, complies with the project requirements, and/or is representative of the system as actually installed.
- 3.4 At the request of the Professional, the System Contractor shall provide in writing references of a minimum of three successfully completed projects of similar size and complexity as this project which have been completed by this Contractor in the three year period preceding this project's bid date. References shall include project name, location, Owner's contact person and telephone number.
4. SYSTEM MANUFACTURERS
- 4.1 The horizontal cabling and connectivity hardware shall be fully compatible and recognized by the manufacturer's of each component as required to provide the specified performance and the System warranty herein specified. Each major component of the System (copper cabling, fiber optic cabling and connectivity hardware) shall be provided by a single approved manufacturer of that component.
- 4.2 Approved Copper Cable Manufactures
- a. Siemon - SOL6
- 4.3 Approved Copper Connectivity Hardware Manufacturers
- a. Siemon

4.4 Approved Fiber Optic Cable Manufacturers

- a. Siemon
- b. Commscope
- c. Ber-Tek

4.5 Approved Fiber Optic Connectivity Hardware Manufacturers

- a. Siemon CT Coupler

B. HORIZONTAL CABLING SYSTEM - COPPER

1. CABLE

- 1.1 Voice and data cabling shall be as manufactured by an approved cable manufacture as listed herein, shall comply with the appropriate category performance specifications outlined in ANSI/TIA/EIA-568-B.1, -B.2 & -B.3 and with this specification.
 - 1.2 Data cabling shall be unshielded twisted pair (UTP), four (4) pair, 100 ohm, Category 6-250MHz, 24 gauge. Outer jacket for station outlets shall be yellow in color. Outer jacket for camera and access control system shall be blue in color.
 - 1.3 All cables shall be plenum rated.
 - 1.4 Telecommunication cables shall be continuous (no splicing permitted) from the work area outlet receptacle termination to the designated backboard or patch panel termination. Work area cabling shall be installed in a "star" topology.
 - 1.5 A minimum of 12 inches of slack cable at the work area outlet and a minimum of 10 feet of slack cable at the termination rack/backboard shall be provided for all UTP cables. Slack cabling at the termination rack/backboard shall be properly stored in an extended loop or figure 8 configuration.
 - 1.6 Each Cable shall have all pairs properly terminated per the required category specifications at the work area outlet receptacle and at the backboard connection blocks or patch panel receptacle.
 - 1.7 Data cables shall be terminated at the designated telecommunication room/closet on Category 6 patch panels.
 - 1.8 Cables shall be terminated at each outlet, patch panel, etc. using a T568A wiring configuration.
- #### 2. WORK AREA OUTLETS
- 2.1 Data work area outlet receptacles shall be as manufactured by an approved connectivity hardware manufacture as listed herein and shall comply with the appropriate category

specifications outlined in ANSI/TIA/EIA-568-B.1, -B.2 & -B.3 for the for the cable category in which connected and with this specification.

- 2.2 Provide and connect two RJ-45, Category 6 compliant receptacles at each data outlet as shown on the drawings by symbols or specified herein. The faceplate shall have provisions for a minimum of 4 jacks.
- 2.3 Provide and connect one RJ-45, Category 6 compliant receptacle/ jack at each wireless access point outlet as shown on the drawings by symbols or specified herein.
- 2.4 Provide and connect one RJ-45, Category 6 compliant receptacle/ jack at each camera / CCTV outlet as shown on the drawings by symbols or specified herein.
- 2.5 Provide and connect one RJ-45, Category 6 compliant receptacle/ jack at each speaker outlet as shown on the drawings by symbols or specified herein.
- 2.6 Work area outlet receptacles shall have the following characteristic:
 - a. 310 style insulation displacement connectors with quadrant pair isolation and a pyramid wire entry system.
 - b. Backwards compatible to allow lower performing category cables or connecting hardware to be connected and perform at their full capacity.
 - c. Rear protective strain relief caps with side or rear entry.
 - d. Allow for a minimum of 200 terminations without signal degradation below standards compliance limits.
 - e. Support industry standards T568A and T568B wiring configurations.
 - f. Color coded snap-in icons for circuit identification.
 - g. UL listed and constructed of high-impact, flame retardant thermoplastic.
 - h. Angled gravity-feed (45 degree angle) design.
- 2.7 Telecommunication outlet plates shall be of the same material as specified for power wiring devices in Section 260120 "Boxes and Enclosures". Work area outlet plates shall have the proper number of knockouts as required for the receptacles to be installed and/or four receptacle knockouts minimum. Provide blank cover on unused plate knockouts.

3. PATCH PANELS

- 3.1 Patch panels shall be as manufactured by an approved connectivity hardware manufacture as listed herein and shall comply with the appropriate category specifications outlined in ANSI/TIA/EIA-568-B.1 & -B.2 for the cable category in which connected and with this specification.
- 3.2 Patch panels shall be Category 6, shall be installed to facilitate cross-connection and inter-connection using modular patch cords and shall conform to EIA standard, 19" rack mounting requirements.
- 3.3 Provide 48 port patch panels with RJ-45 receptacles at each termination rack as follows:

One port per work area outlet cable terminated at the termination rack plus 25% spare. A minimum of 48 ports shall be provided at each termination rack. All ports provided whether connected in this project or are spare for future use shall have RJ-45 receptacle installed and ready for future connection.

- 3.4 Patch panel shall be constructed of black anodized aluminum and shall have the following characteristic:
- a. 310 style insulation displacement connectors with quadrant pair isolation and a pyramid wire entry system.
 - b. Backwards compatible to allow lower performing category cables or connecting hardware to be connected and perform at their full capacity.
 - c. Rear protective strain relief caps with side or rear entry.
 - d. Circuit boards tested in both directions.
 - e. Have a rear cable management bar for strain relief.
 - f. Port identification numbers on both the front and rear of the panel.
 - g. Individual port labeling provisions.
 - h. Support industry standards T568A and T568B wiring configurations.

3.5 Patch panels shall be Siemon HD6-48.

4. WORK AREA CORDS/PATCH CORDS

4.1 Provide data work area cords, one for each data, wireless access point, camera and speaker receptacle installed plus 25% spare. Cords shall be factory made Category 6-250MHz, ten (10) feet in length with RJ-45 connector at each end. Outer jacket color shall be the same as the corresponding horizontal cabling.

4.2 Provide patch cords, one for each active port installed plus 25% spare. Cords shall be factory made Category 6-250MHz, three (3) feet in length with RJ-45 connector at each end. Outer jacket color of patch cords shall be the same as the corresponding horizontal cabling.

5. TERMINATION RACKS

5.1 Provide termination racks as required by the drawings and/or as required for the number of patch panels and fiber optic termination shelves to be provided. A maximum of two-thirds of the available mounting space in any rack shall be used for cable terminations. The remaining one-third of the available mounting space shall be dedicated for Owner provided electronics.

5.2 Termination racks shall be open vertical floor mount, 4 post, aluminum, with universal 19" EIA mounting with tapped holes and full mounting base. Rack height shall be 84".

5.3 Termination racks shall be provided with vertical and horizontal cable management. Vertical cable management shall be provided along entire length of vertical rails. Horizontal cable management shall be provided between each rack mounted component and

above/below the top-most and bottom-most component, respectively. Floor mounted racks shall be provided with top waterfall type cable tray.

- 5.4 Provide a rack mounted surge protection power strip with a minimum of six (6) receptacles, on/off switch and fifteen (15) foot cord & plug set.
- 5.5 Termination racks shall be as manufactured by Great Lakes Case & Cabinet Company, X-Mark/CDT, Hubbell, Siemon or approved equal.
- 5.6 Provide ladder rack for cable support from wall to each termination rack.
- 5.7 Mount termination racks for maintenance access at front and rear. Maintain sufficient clearance for one (1) future additional termination rack to be mounted adjacent to the provided racks. Exact placement of each rack in the space shall be verified with the Professional and/or the Owner prior to rough-in.
- 5.8 Each termination rack shall be bonded to the telecommunication ground bus using a #6 copper conductor. Ground conductor may be daisy-chained between multiple racks when installed side-by-side.

C. BACKBONE CABLING

1. CABLE

- 1.1 Copper and fiber optic backbone cabling shall be as manufactured by an approved cabling system manufacture as listed herein and shall comply with the specifications outlined in ANSI/TIA/EIA-568-B.1, -B.2, & -B.3 and with this specification.
- 1.2 Provide the following backbone cabling between each horizontal cross connect (HC) and intermediate cross connect (IC) within the facility(ies) and the main cross connect (MC) and properly terminate each cable on each end with the specified equipment.
 - 1.2.1 Data backbone cabling shall be a single-mode fiber optic cable with a minimum of twenty four strands of fiber. It shall be installed in separate conduit from the rack on second floor to the data rack on fourth floor.
- 1.3 Backbone fiber optic cabling shall be plenum rated.
- 1.4 A minimum of ten (10) feet of slack cable shall be provided at each HC, IC and MC. Slack cabling shall be properly stored in an extended loop or figure 8 configuration.
- 1.5 Unless otherwise noted on the drawings or herein specified, 100% of the backbone cabling pairs or strands shall be terminated.

2. CABLE TERMINATION

- 2.1 Fiber optic backbone cables shall be terminated on dedicated termination panels. All strands shall be terminated at both ends, unless approved otherwise.

D. CABLE ROUTING

- 1.1 Telecommunication cables shall be routed utilizing the raceway system(s) as shown on the drawings, as specified in Section 260510 "Telecommunication Raceway System" and the requirements listed herein.
- 1.2 Telecommunication cables shall be routed in compliance with the following requirements:
 - 1.2.1 Cable shall be routed in corridors, where possible, consistent with the requirements as listed herein.
 - 1.2.2 Cable routing to follow the shortest distance between termination points consistent with the building construction constraints, telecommunication raceway system provided and the other requirements listed herein. Horizontal cable runs, regardless of media type, shall not exceed 295 feet (90 meters) from the work area outlet to the horizontal cross connection termination point including cable slack.
 - 1.2.3 Cable routing shall avoid arcing or rotating electrical equipment, transformers and/or ballast and any type of signal transmitting equipment. Maintain cable manufacturer's recommended clearance from any interference source given the cable installation method/media (conduit, cable tray, J-hooks, open, etc.)
 - 1.2.4 Where cables are routed open (without a conduit or other raceway system), provide cable supports (i.e. J-hooks, etc.) whether or not shown on the drawings or specified herein. Cable supports shall be mounted independent of the ceiling support system and spaced as recommended by the cable manufacturer and at a maximum of 5 feet on center. The number of cables placed in any support device shall be limited to the number of cables as recommended by the cable manufacturer or to the number of cables that will not cause a change in the geometric shape of any cable in the support.
 - 1.2.5 Cables shall be routed parallel and perpendicular to walls, ceilings and/or floors where possible. Cable homeruns from a common area and terminating at a common backboard or termination rack shall be group together. All cables shall be installed in a neat and workmanlike manner.
 - 1.2.6 Maintain the manufacturer's minimum bending radius during and after installation.
 - 1.2.7 Cable pulling tensions shall remain within the manufacturer's recommendation during and after installation.
- 1.3 The Contractor shall plan and design each horizontal and/or backbone cable routing path from termination point to termination point taking into account and coordinating with all building systems and construction prior to the installation of any cable. Any cable installation as required by the drawings and this specification that can not meet the requirements as specified herein using the Telecommunication Structured Cabling System or Telecommunication Raceway System as specified herein shall be brought to the attention of the Professional prior to any cable or raceway installation.

E. LABELING

1. On the face of each telecommunication work area outlet plate, permanently label each data receptacle with an identification number corresponding to the associated termination rack designation and patch panel receptacle number in which the outlet is connected. Each telecommunication work area outlet plate and each telecommunication cable (both ends) shall be permanently labeled as directed by the Using Agency's DIS Department.
2. Each horizontal cable shall be identified on each end by an adhesive wrap around printed label indicating the associated work area receptacle/patch panel receptacle identification number.
3. Patch panel receptacle numbering shall be sequential and consecutive across multiple patch panels when installed in a common rack or system of racks installed in the same room for the same system.
4. Telecommunication system labeling shall be fully explained to the Owner prior to installation and fully coordinated with the Owner's labeling requirements and per the DIS standards.

F. CABLE TESTING

1. HORIZONTAL - COPPER

- 1.1 All copper horizontal cabling shall be tested for compliance with the associated category performance using an approved Level IIe or III balanced twisted-pair field test device. A printed test report of each cable tested shall be provided to the Professional at substantial completion.
- 1.2 Horizontal balanced UTP Category 6 copper basic cable links shall be 100 percent tested according to ANSI/TIA/EIA-568-B.1. Test parameters shall include wire map, insertion loss, length, NEXT loss (pair-to-pair), NEXT loss (power sum), ELFEXT loss (pair-to-pair), ELFEXT loss (power sum), return loss, insertion loss, propagation delay, and delay skew.

2. HORIZONTAL - FIBER OPTIC

- 2.1 Horizontal Fiber optic cables shall be 100 percent tested for insertion loss and length. A printed test report of each cable tested shall be provided to the Professional at substantial completion.
- 2.2 Insertion loss shall be tested at 850 nm or 1300 nm for 50/125 um and 62.5/125 um multimode cabling in at least one direction using the Method B (1 jumper) test procedure as specified in ANSI/TIA/EIA-526-14A. Length shall be tested using an OTDR.

3. BACKBONE - FIBER OPTIC

- 3.1 Backbone Fiber optic cables shall be 100 percent tested for insertion loss and length. A printed test report of each cable tested shall be provided to the Professional at substantial completion.
- 3.2 Insertion loss shall be tested at 850 nm or 1300 nm for 50/125 um and 62.5/125 um multimode cabling in at least one direction using the Method B (1 jumper) test procedure as specified in ANSI/TIA/EIA-526-14A. Length shall be tested using an OTDR.

G. WARRANTEE

- 1.1 The structured telecommunication cabling system shall be warranted by the System manufacturer for a minimum period of fifteen (15) years.

H. TELEVISION/VIDEO

- 1. Horizontal video cable shall be provided from each video and/or television outlet to the designated telecommunication room, distribution equipment or other space as indicated.

2. CABLE

- 2.1 Horizontal video and television cable shall be Cat 6..
- 2.2 All horizontal cables shall be plenum rated.

3. DISTRIBUTION

- 3.1 The horizontal video and television cabling system shall be designed and installed in a homerun/star topology.

- END OF SECTION 270110 -

270170 - CLOSED CIRCUIT TELEVISION SYSTEM

PART 1 - GENERAL

1.01 Scope

- A. The Contractor shall furnish and install all equipment including, but not limited to, controls, outlet boxes, conduit where required, wiring, cameras, lenses, housings, mounts, power supplies and all other equipment required for a complete and operational Closed Circuit Television (CCTV) System as detailed on the plans and described herein.
- B. Equipment listed by manufacturer and model number on the plans are is intended to establish a minimum performance standard for the system specified. Only cameras that are fully compatible with the existing campus Avigilon software shall be accepted. Equal models meeting the same specified camera requirements and functional operation may be substituted as approved.

1.02 SUBMITTALS

- A. Catalog data sheets shall be provided for each component of the system provided. Include catalog data for cable.
- B. CAD drawings shall be provided for the system. Drawings shall include data indicating anticipated viewing area for each camera. Drawings shall also show in detail the layout of the control console including switches, connectors, jacks, receptacles, wire/termination numbering, power supplies, etc. Final "closeout" CAD drawings shall include all "as-built" info.

1.03 QUALIFICATIONS

- A. The Contractor shall be from an established business within one hundred miles of the jobsite and which has been operating in the area for a minimum of five (5) years and have extensive experience with similar projects with regard to size and complexity. He shall possess a valid State of Mississippi Certificate of Responsibility.
- B. The Contractor shall provide with his catalog data submission a list of three (3) projects of this project's size and scope.

1.04 MAINTENANCE/WARRANTY

- A. The Contractor shall provide a one-year guarantee of the installed system/components against defects in material and workmanship. All repair labor and materials shall be provided at no expense to the Owner during this period. Guarantee period shall begin on the date of acceptance of the system by the Owner.
- B. A maintenance contract offering continued factory authorized service of this system shall be made available if requested by the Owner following expiration of guarantee period.

1.05 QUALITY ASSURANCE

- A. The System Vendor shall be a factory authorized distributor for all components of the system with full warranty and factory support privileges.
- B. The System Vendor shall maintain at his facility the necessary spare parts in the proper proportion to maintain and service the equipment being furnished.
- C. The Contractor shall furnish manufacturer's manuals of the completed system including individual specification sheets, and inter-panel and intra-panel wiring diagrams. In addition, all information necessary for the operation and maintenance of the system must be included.
- D. All equipment shall be new and in production at the time of submittals.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Outdoor Fixed cameras
 - (1) Fixed cameras shall be as manufactured by Axis, solid state digital, high definition imaging, on board video storage, and self learning video analytics. 5MP minimum.
 - (2) The camera shall be vandal resistant and shall be fully compatible with the existing campus surveillance and analytics software package by Avigilon.
 - (3) The on board storage shall be a minimum of 256 GB. Provide 3-9 mm lens unless noted otherwise by the plan documents.
 - (4) Image rate shall be 30 fps for high frame rate and 12 fps for full feature frame rate.
 - (5) Housing shall be aluminum, surface mounting with wall bracket and all mounting hardware accessories as required.
 - (6) Power consumption shall be 13 watts for bullet type and 9 watts for dome type.
 - (7) All camera power shall be provided thru POE cable and RJ45 connection.
 - (8) Camera shall be rated and UL listed for outdoor use.
 - (9) Camera shall have feature to automatically update its firmware when updates are available.
- B. Indoor Fixed Cameras
 - (1) Fixed cameras shall be as manufactured by Axis, solid state digital, high

definition imaging, on board video storage, low light performance, remote focus and zoom control. 2MP minimum.

- (2) The camera shall be vandal resistant and shall be fully compatible with the existing campus surveillance and analytics software package by Avigilon.
- (3) The on board storage shall be a minimum of 256 GB. Provide 3-9 mm lens unless noted otherwise by the plan documents.
- (4) Image rate shall be 30 fps for all resolutions.
- (5) Housing shall be aluminum, surface mounting with wall bracket or pendant and all mounting hardware accessories as required.
- (6) Power consumption shall be 5 watts without IR 10 watts with dome, maximum.
- (7) All camera power shall be provided thru POE cable and RJ45 connection.
- (8) Camera shall have feature to automatically update its firmware when updates are available.

C. Indoor/Outdoor Multi-sensor Cameras

- (1) Multi-sensor dome cameras shall be as manufactured by Axis, solid state digital, high definition imaging, on board video storage, and self learning video analytics.
- (2) The camera shall be vandal resistant and IP based.
- (3) The on board storage shall be a minimum of 256 GB. Provide 2.8 mm lenses, except for the 180 degree camera which shall be 4mm lenses, unless noted otherwise by the plan documents.
- (4) Resolution shall be minimum 3MP minimum per sensor.
- (5) Housing shall be aluminum, surface or pendant mounting with wall bracket and all mounting hardware accessories as required.
- (6) Power consumption shall be maximum 26 watts PDE.
- (7) All camera power shall be provided thru POE cable and RJ45 connection.
- (8) Camera shall be rated and UL listed for outdoor use.
- (9) Camera shall have feature to automatically update its firmware when updates are available.

D. Cable

- (1) Cable shall be Cat 6 and suitable for the application as recommended by the

camera manufacturer, unless noted otherwise. Provide appropriate Cat 6 connectors as required. All cables are to be permanently marked at both ends. Identify cable markings record drawings.

- (3) Where designated and for any camera cable requiring more than 290 feet of cable, provide 2 strand (min.) single mode, fiber optic outdoor cabling. Provide one single mode strand plus one spare strand for each camera.

E. Camera Power

- (1) For each camera with less than 290 feet of cabling, the power to the camera shall be through POE switches and the approved Cat 6 cabling.
- (2) For each camera with more than 290 feet of cabling, the power to the camera shall be through one of two methods (at Contractor's option) as described below.
 - (a) Provide an 120 volt duplex weatherproof receptacle adjacent to the camera in a weather proof enclosure sized adequate for the receptacle and a 48 volt DC converter/ power supply or as required by the camera manufacturer. The source of the power shall be unswitched circuit and shall be in GRS conduit per the project specifications.
 - (b) Provide a hybrid fiber optic cable that includes the single mode strands and 16 AWG conductors for 48 volt DC power to an outdoor rated, POE extender located at the camera. The Contractor shall provide the 48 volt DC power supply at the patch panel/ switch rack and connect the cable as required. This power supply shall be provided or connected thru an approved UPS power supply. The final connection to the camera shall be Cat 6 POE cable and shall be weatherproof.

F. Surge Protection

- (1) Each new and existing outdoor camera cable connection shall be provided with a POE surge protection device.
- (2) POE surge protection device shall match the rating of the cable connected/installed.
- (3) All outdoor cameras shall have ground connection to grounded building structure, poles, ground conductors, etc.
- (4) All poles for cameras new and existing shall have ground rod and ground connection per drawing detail.

PART 3 - EXECUTION

3.01 GENERAL

A. INSTALLATION

- (1) All camera units, lenses, power supplies, cables, etc. shall be new.
- (2) Complete system shall be installed in strict accordance with the National Electric Code, the local Authority Having Jurisdiction and the manufacturer's recommendations.
- (3) Checkout of the Closed Circuit Television Systems shall be made by a factory trained technician in the presence of the Owner or his representative. Technicians shall demonstrate operation of the complete system and each major component to the Owner.
- (4) Upon completion of the installation, seven (7) copies of factory furnished O & M Manuals and record drawings shall be furnished.

B. The system shall be installed in conduit, unless noted otherwise, and shall be connected and checked out by professional electronics technicians, thoroughly familiar with the equipment being installed. Final cable connections in conduit to cameras shall be in flexible, metal, sealtite type conduit.

C. The Closed Circuit Television (CCTV) security control system is a state of the art system capable of integrating all multiplexed video switching alarm point processing, external system relay control, and recording, into the campus network data system.

D. Any power required by the camera shall be from POE connection and each POE construction to an outdoor camera cable shall be provided with a Cat 6 surge protection device near the cable's entrance to the building.

E. Contractor shall perform initial aiming/focusing of cameras based on approved submittal aiming/coverage plans.

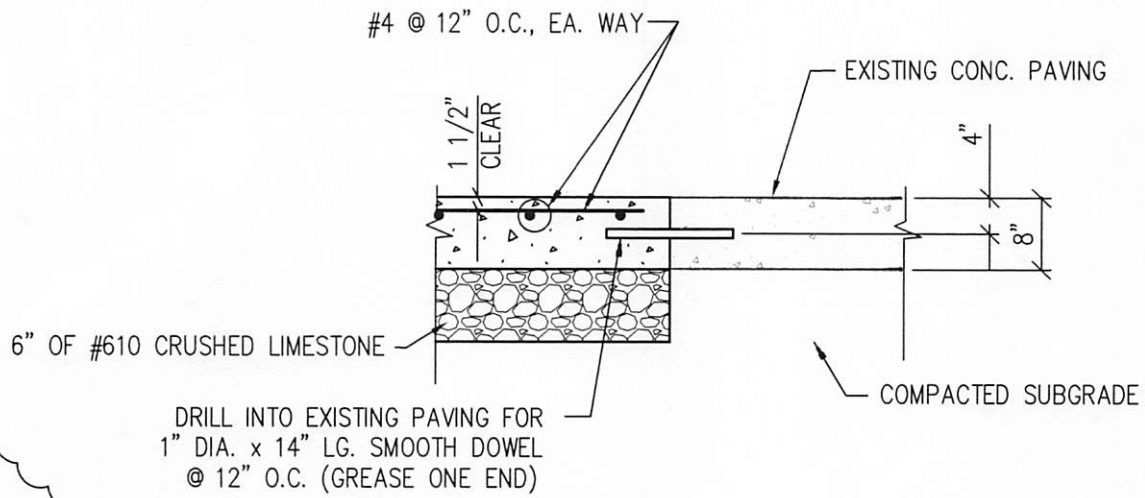
F. The Contractor shall provide a one-year guarantee of the installed system against defects in material and workmanship. all labor and materials shall be provided at no expense to the Owner. Guarantee period shall begin on the date of final acceptance by Owner.

G. The Contractor shall furnish a minimum of four hours of in-service training with the system. Operating manuals and user guides shall be provided at the time of the training.

H. The Contractor shall furnish manufacturer's manuals of the completed system including individual specification sheets, inter-panel and intra-panel wiring diagrams. In addition, all information necessary for the operation and proper maintenance of the system must be included.

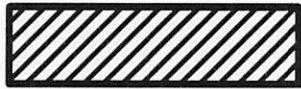
- I. Check-out and final connections shall be made by a factory trained technician in the employ of a manufacturer of the products installed. In addition, factory trained technicians shall demonstrate operation of the complete system and each major component to the Owner.

- END OF SECTION 270170 -



JOINT AT EXISTING PAVING

WALL PAINTING LEGEND



ACCENT WALL COLOR:
SW 9164 ILLUSIVE
GREEN EGGSHELL
(SHERWIN-WILLIAMS)
ON GWB WALLS.



ACCENT WALL COLOR:
BM 2128-30 EVENING
DOVE EGGSHELL
(BENJAMIN MOORE) ON
GWB WALLS.

NOTE:

1. COLOR ON ALL OTHER WALLS:
SW 7004 SNOWBOUND EGGSHELL
(SHERWIN-WILLIAMS)
2. TRIM COLOR:
SW 7069 IRON ORE GLOSS
(SHERWIN-WILLIAMS)

NOTE: FOR DRAWING F-102



FOILWYATT
Architects & Planners, PLLC
SUITE 200
150 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TELEPHONE: (601) 523-4771
FAX: (601) 523-4772
EMAIL: foilw@foilwatt.com
WWW: www.foilwatt.com

UMMC MIND CENTER & GERIATRIC CLINIC
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
JACKSON, MISSISSIPPI
#209-587

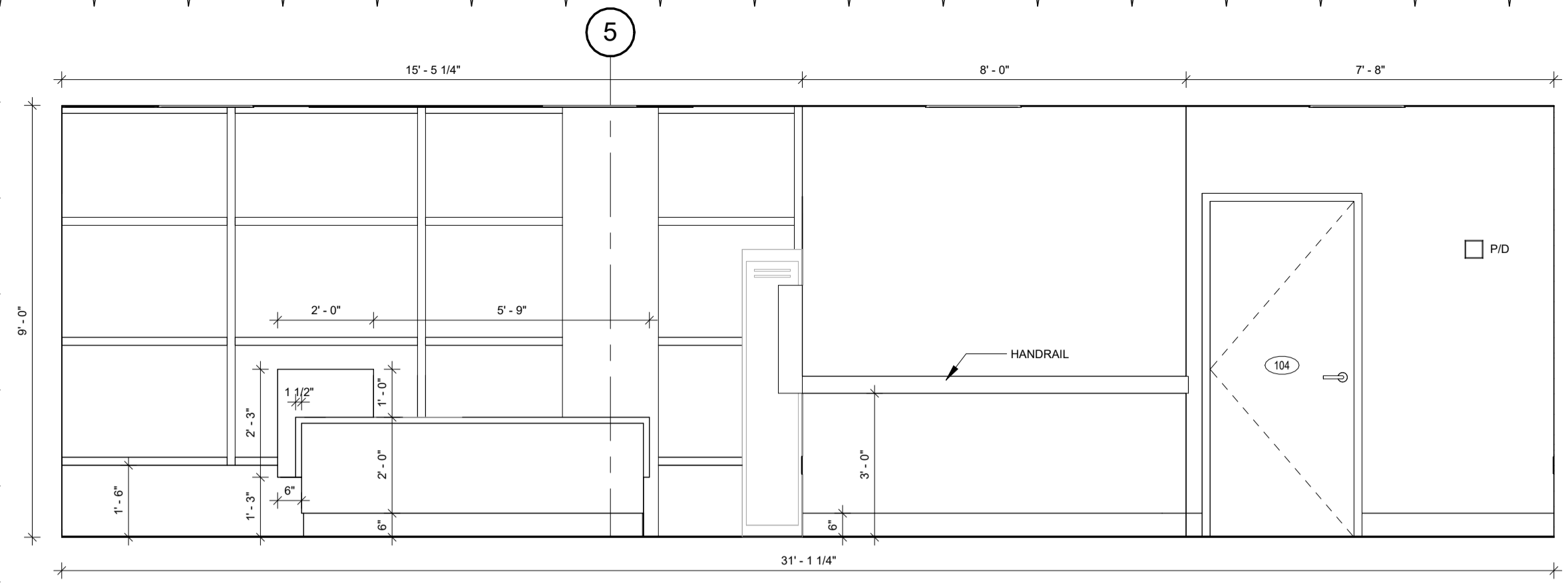
project no.
1682-24
date
17 SEPTEMBER 2025
revised
27 OCTOBER 2025

drawn by
DD/HJ

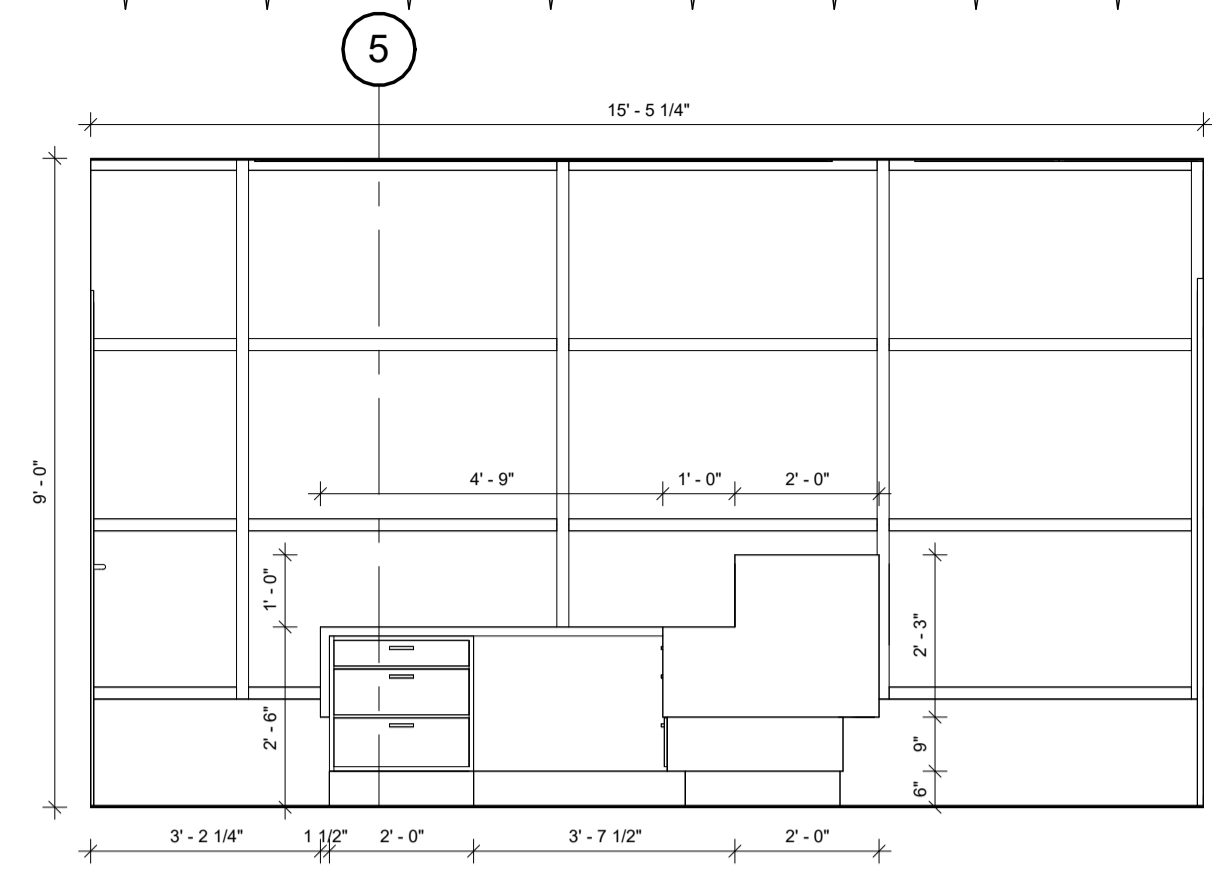
INTERIOR ELEVATIONS

sheet no.
A-701

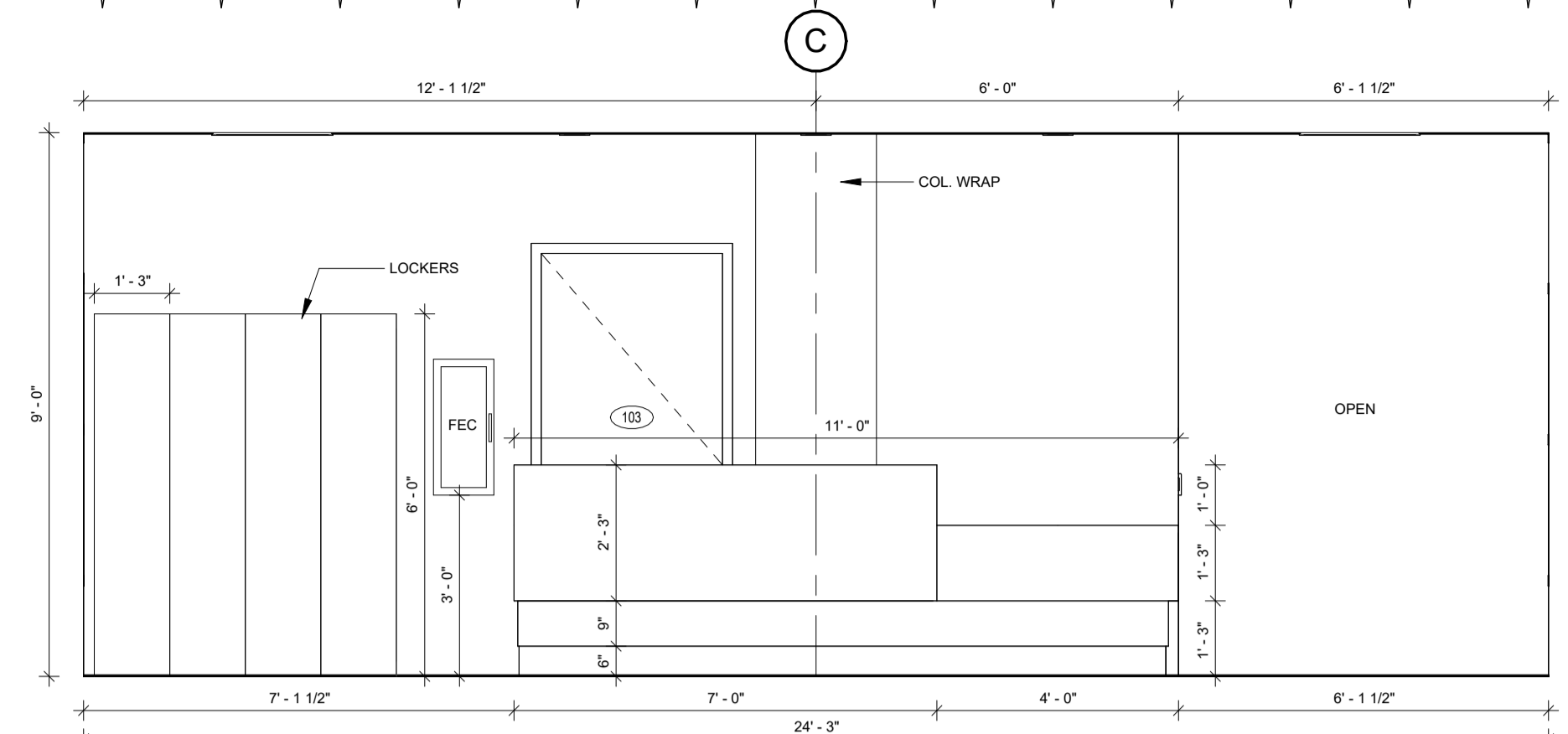
CONSTRUCTION DOCUMENTS



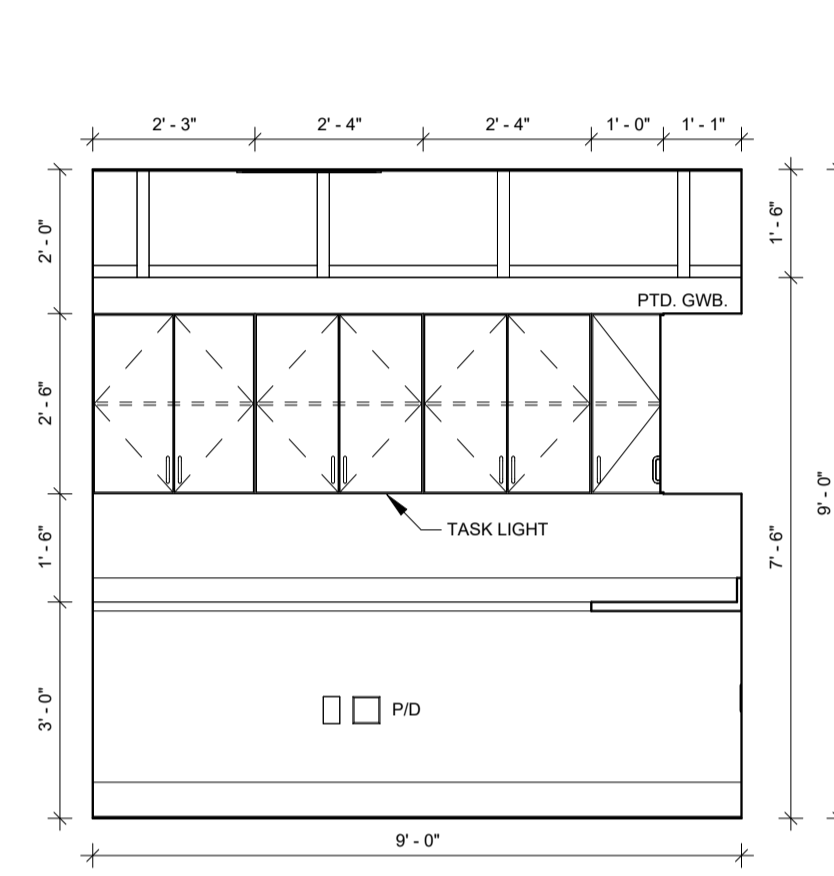
LOBBY - 102 (N. WALL)
SCALE: 3/8" = 1'-0"
1
A-701



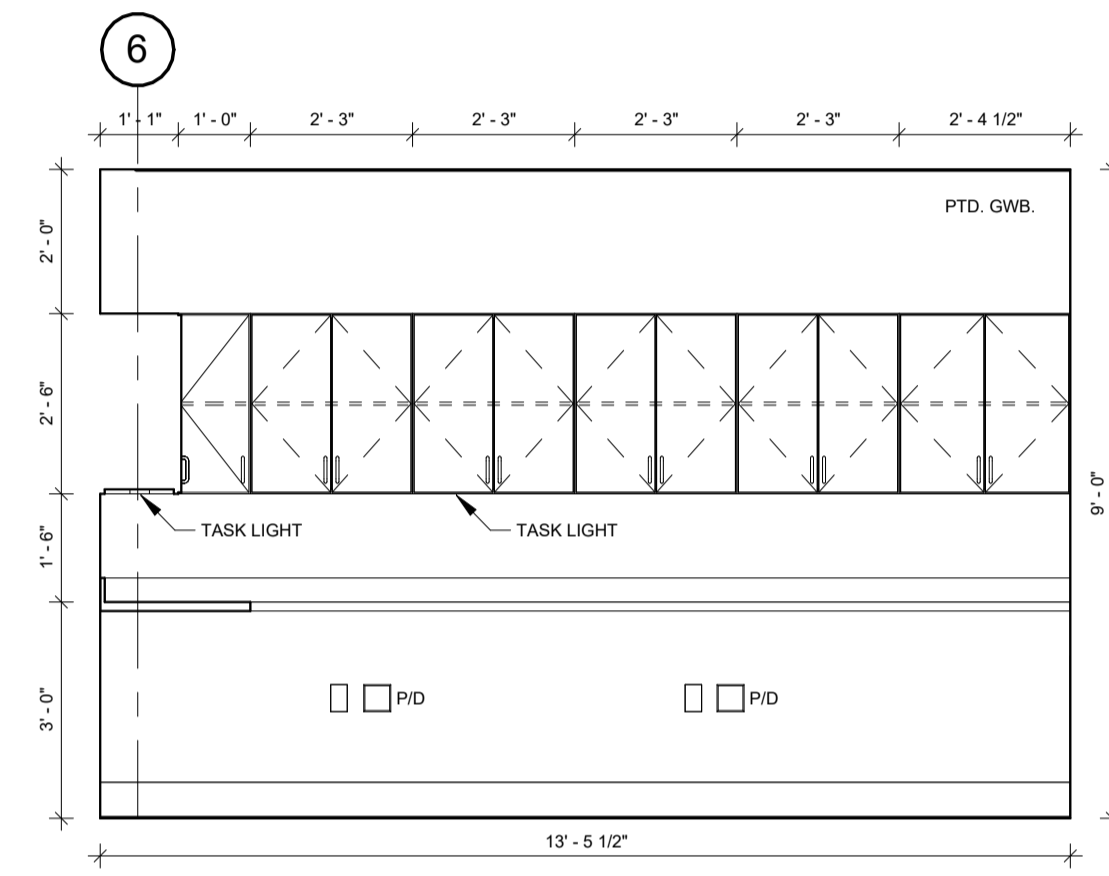
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SCALE: 3/8" = 1'-0"
2
A-701



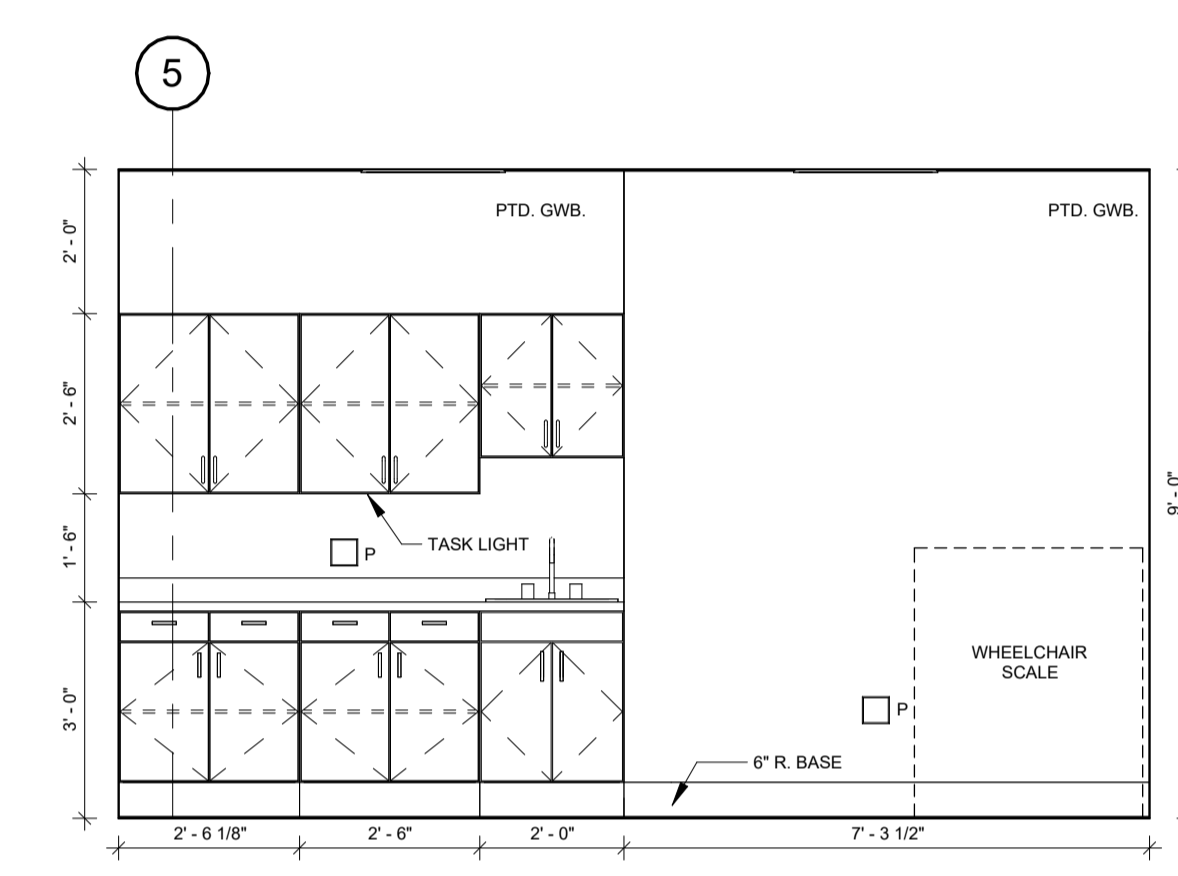
LOBBY - 102 (E. WALL)
SCALE: 3/8" = 1'-0"
3
A-701



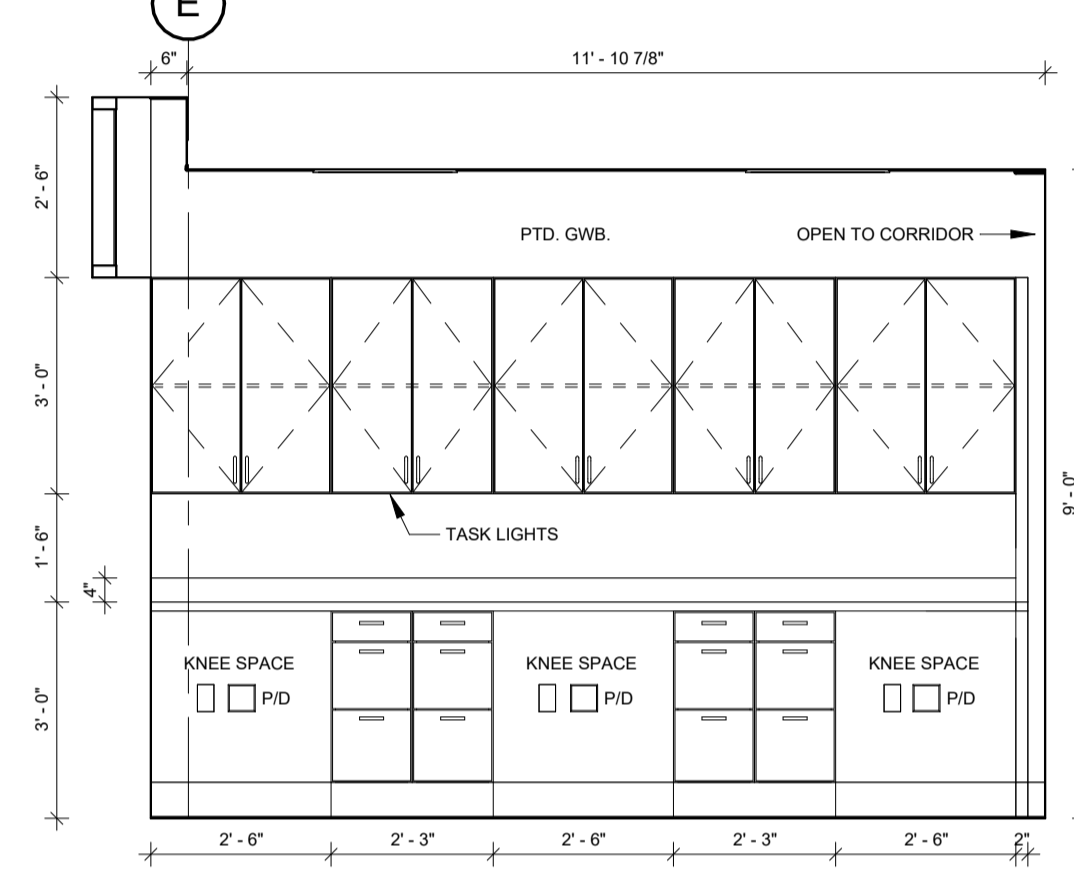
W. S. - 205 (E. WALL)
SCALE: 3/8" = 1'-0"
4
A-701



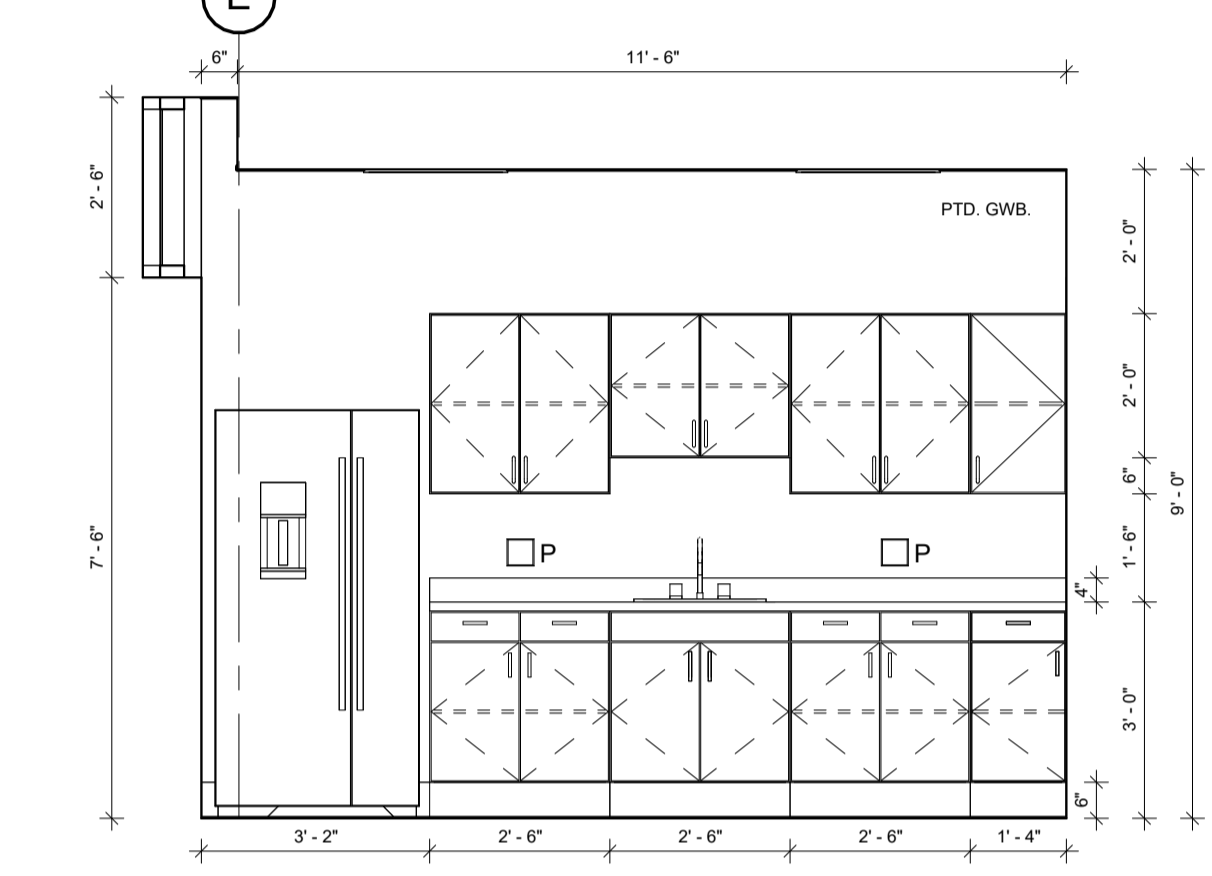
W. S. - 205 (S. WALL)
SCALE: 3/8" = 1'-0"
5
A-701



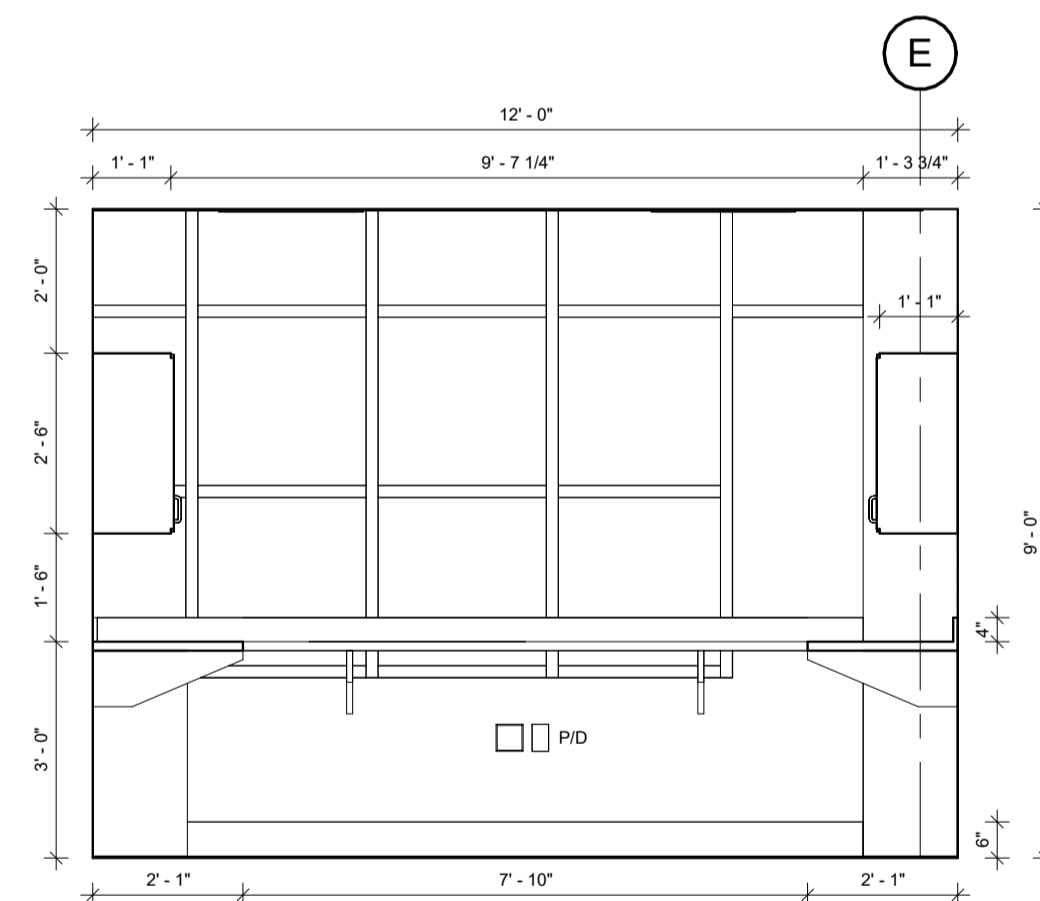
VITALS - 209 (S. WALL)
SCALE: 3/8" = 1'-0"
6
A-701



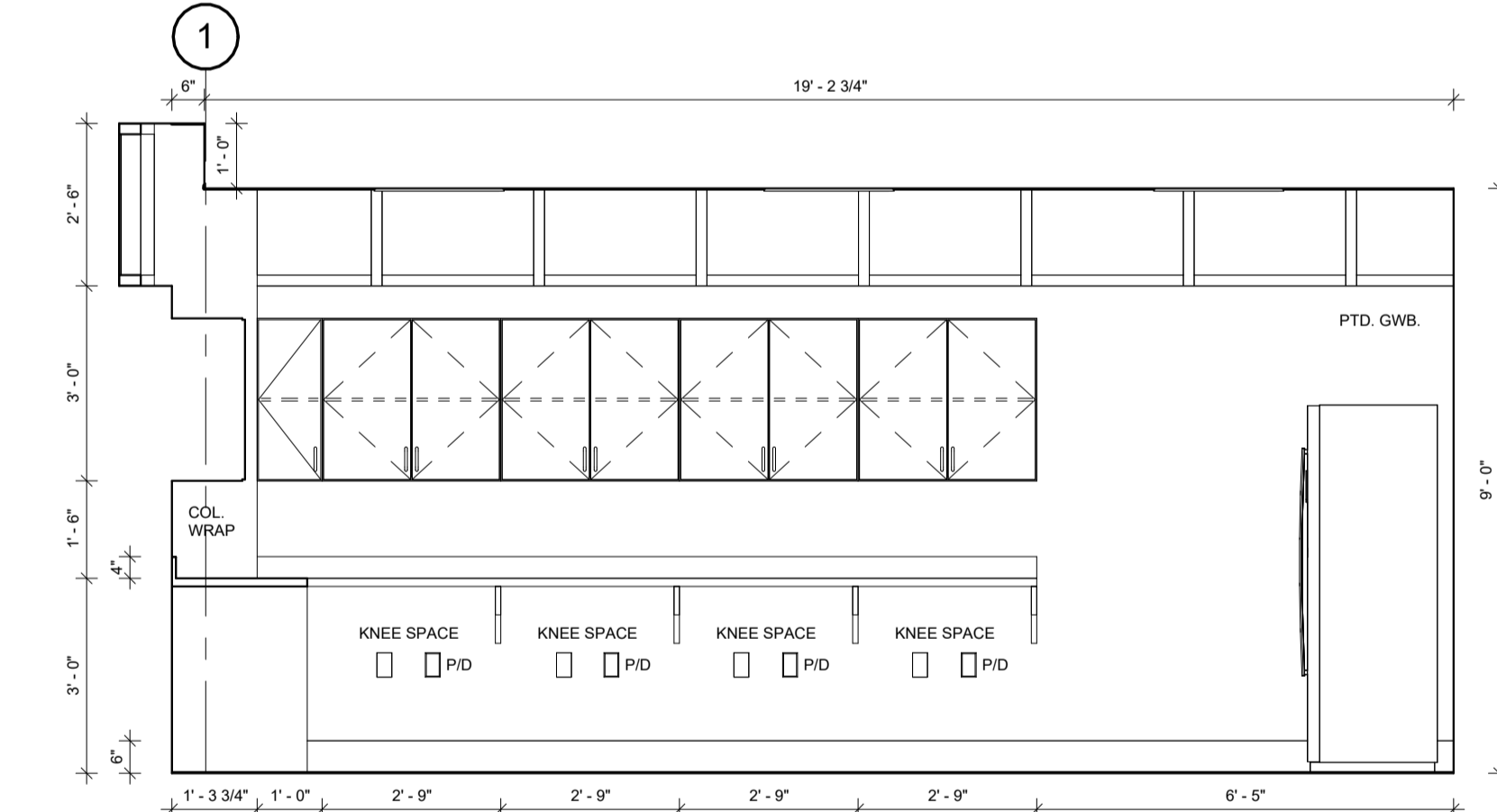
WORK STATION - 212 (E. WALL)
SCALE: 3/8" = 1'-0"
7
A-701



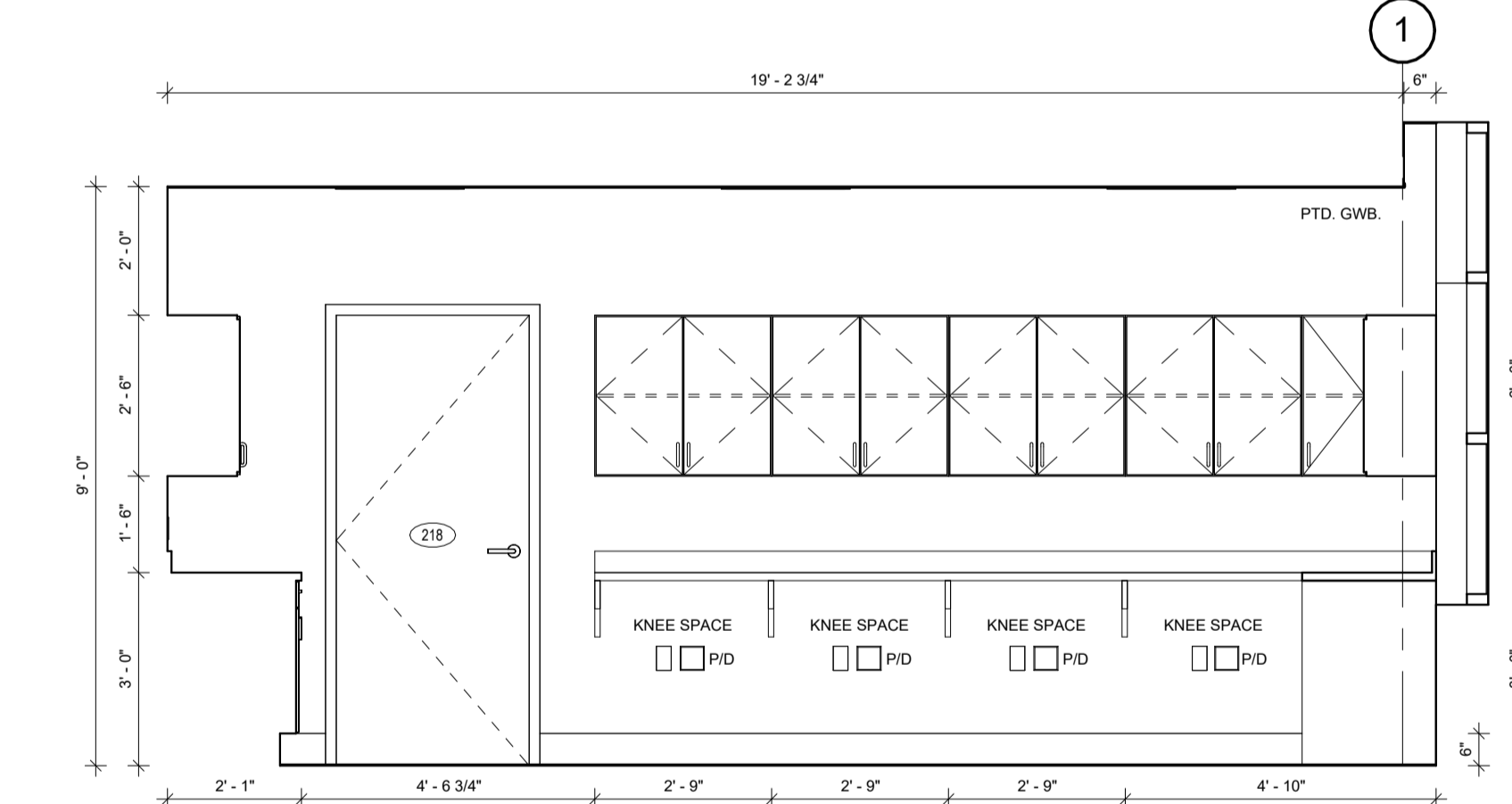
LEARNING-1 - 218 (E. WALL)
SCALE: 3/8" = 1'-0"
8
A-701



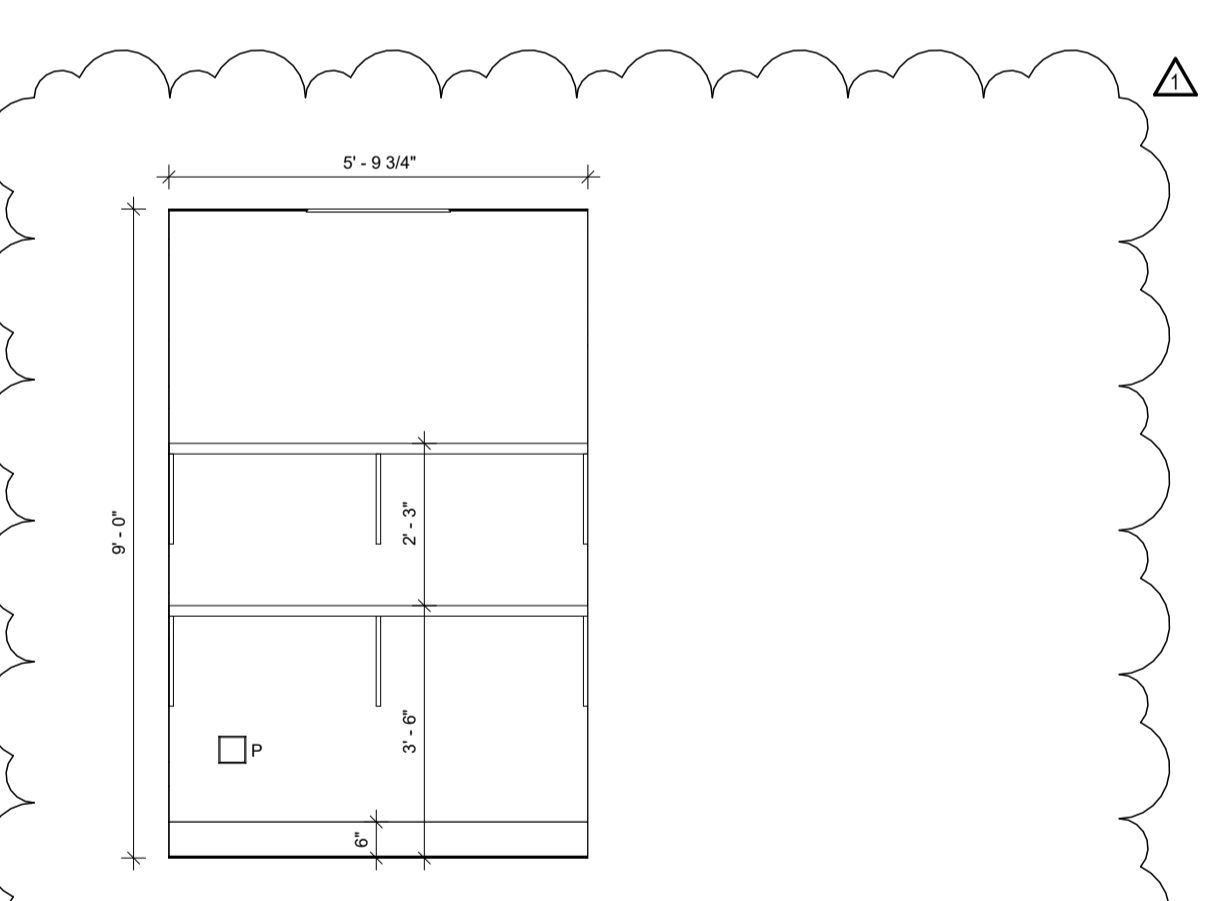
LEARNING-1 - 218 (W. WALL)
SCALE: 3/8" = 1'-0"
9
A-701



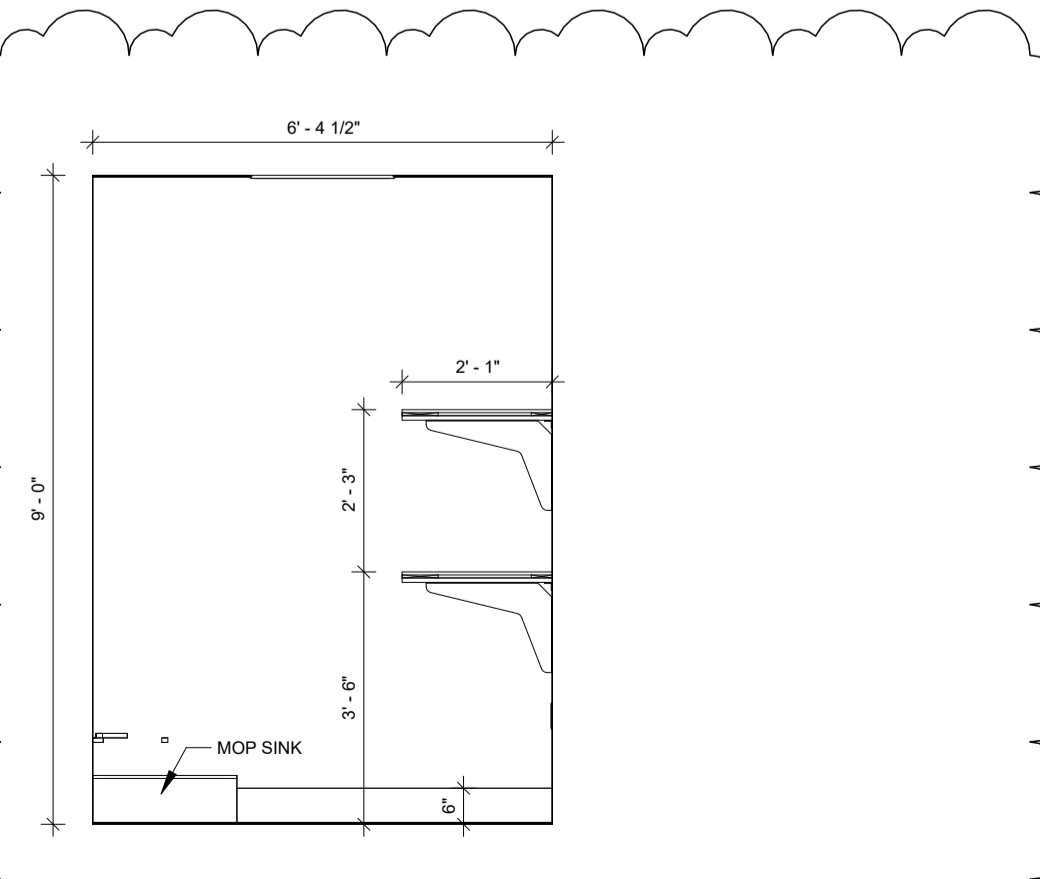
LEARNING-1 - 218 (N. WALL)
SCALE: 3/8" = 1'-0"
10
A-701



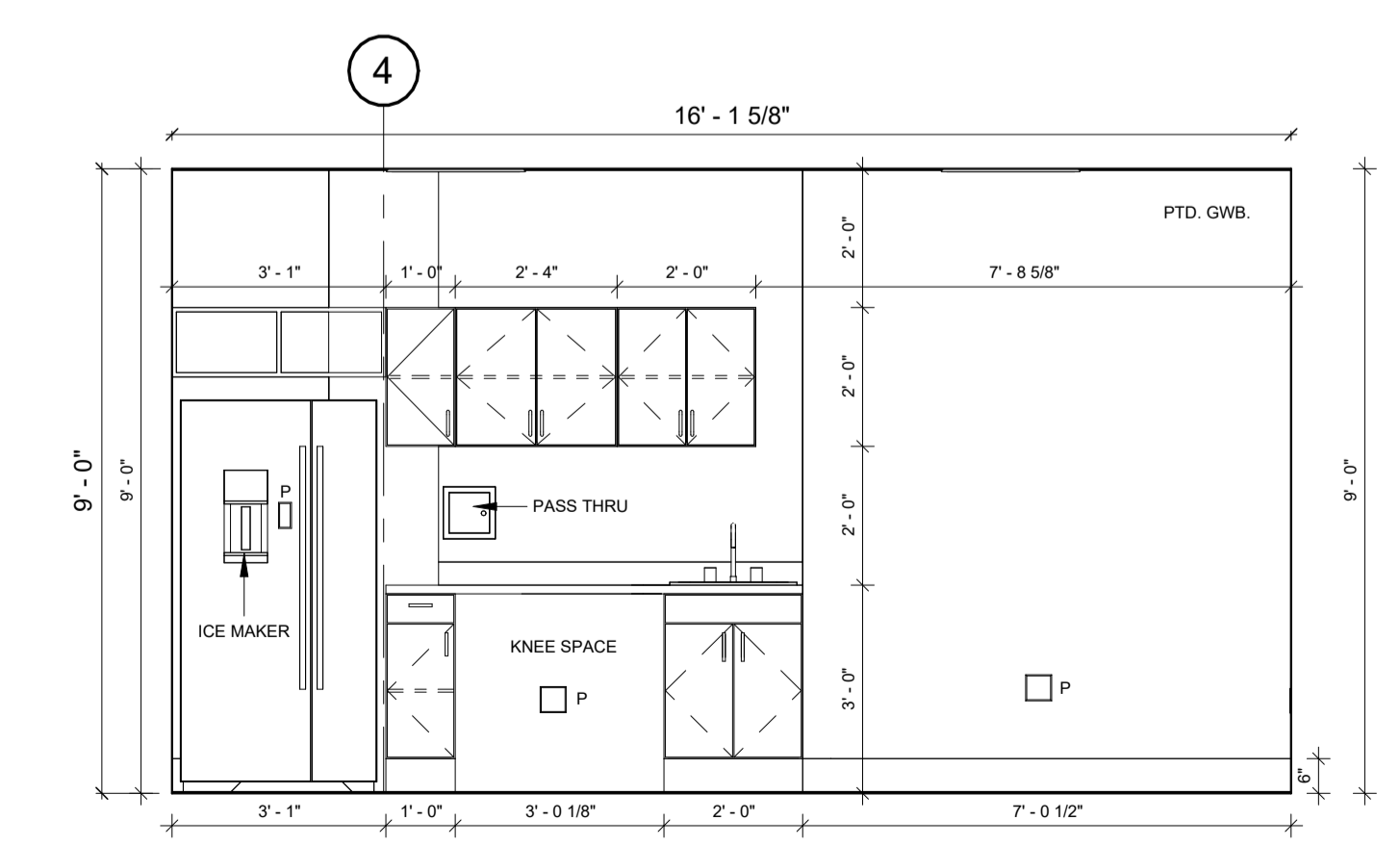
LEARNING-1 - 218 (S. WALL)
SCALE: 3/8" = 1'-0"
11
A-701



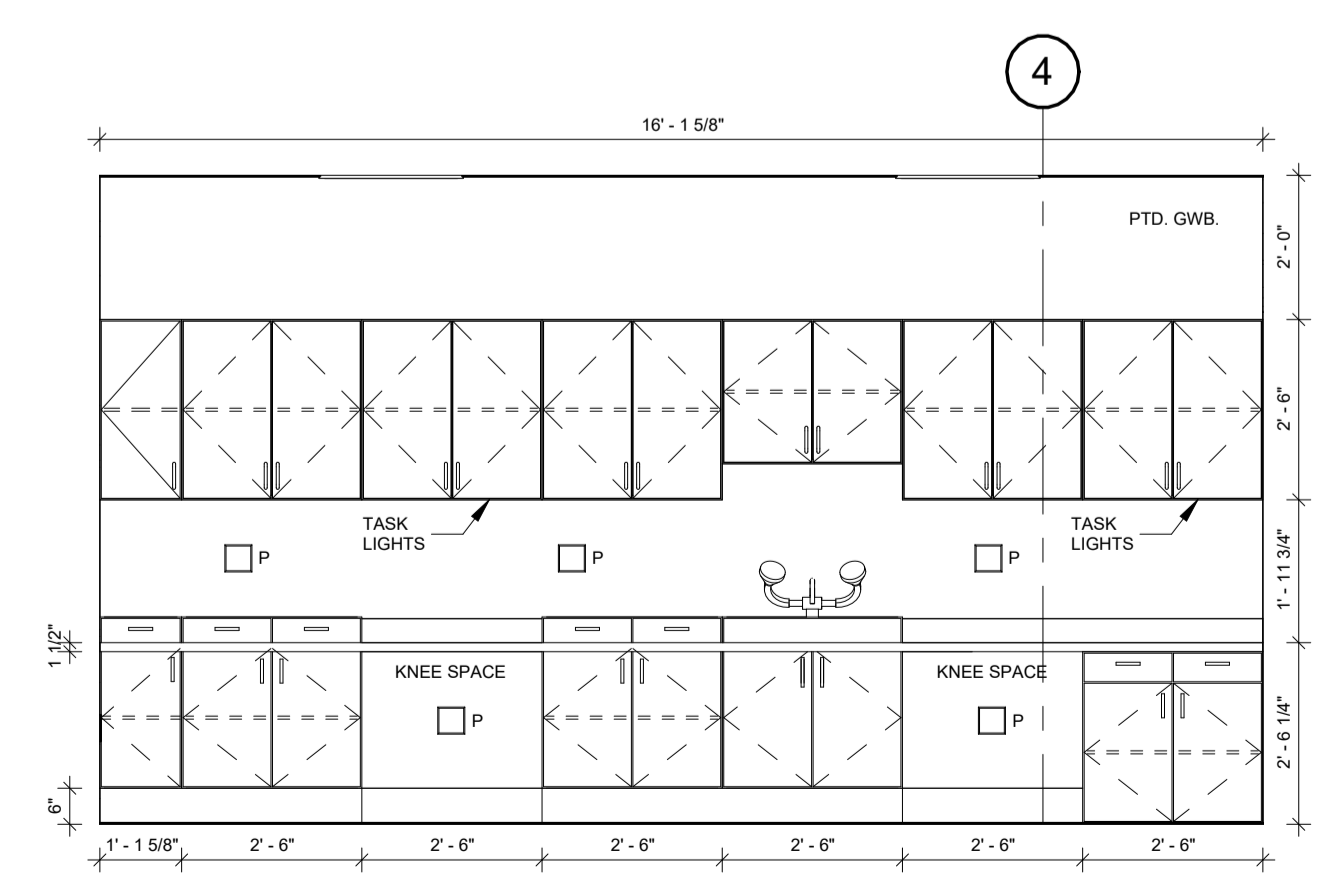
H. K. - 222 (E. WALL)
SCALE: 3/8" = 1'-0"
12
A-701



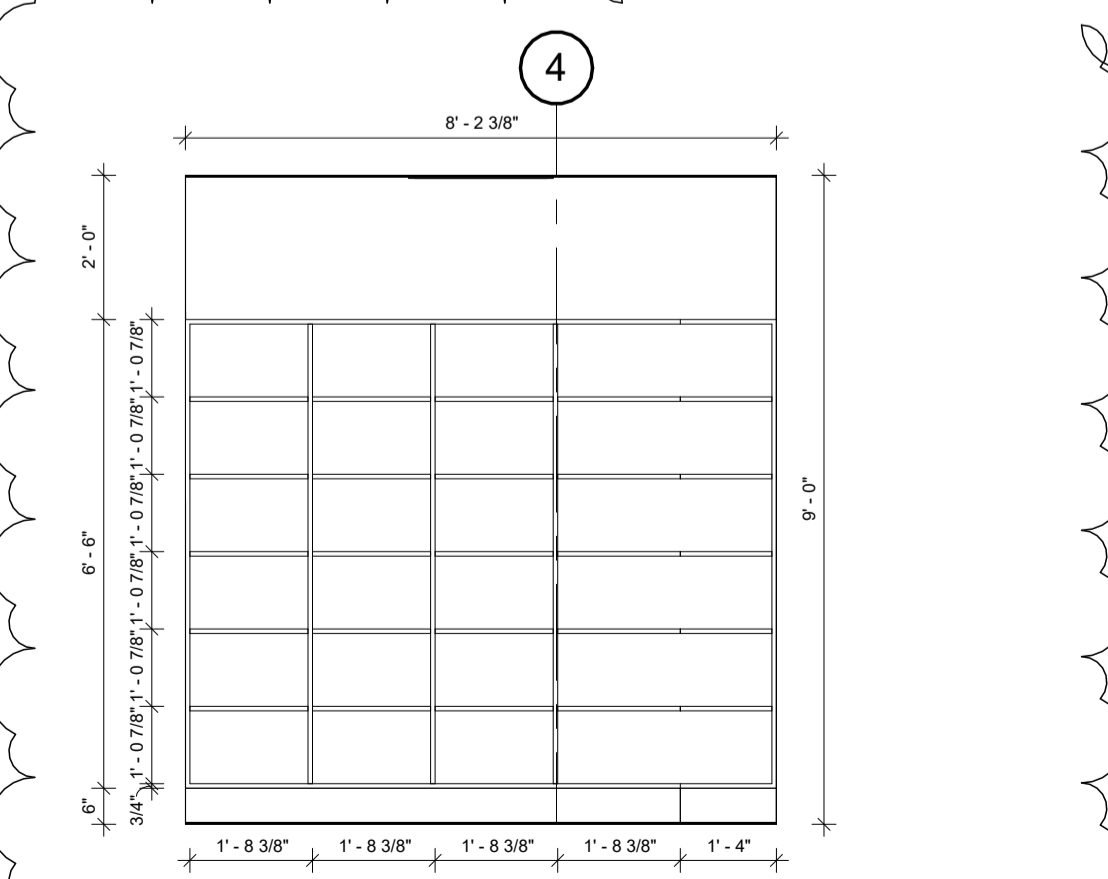
H. K. - 222 (N. WALL)
SCALE: 3/8" = 1'-0"
13
A-701



BLOOD - 233 (N. WALL)
SCALE: 3/8" = 1'-0"
14
A-701



BLOOD - 233 (S. WALL)
SCALE: 3/8" = 1'-0"
15
A-701



SUPPLY - 234 (S. WALL)
SCALE: 3/8" = 1'-0"
16
A-701



FOILWYATT
Architects & Planners, PLLC
SUITE 300
150 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TELEPHONE: (601) 523-4071
FAX: (601) 523-4072
EMAIL: foilwatt@foilwatt.com
WEB: www.foilwatt.com

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UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
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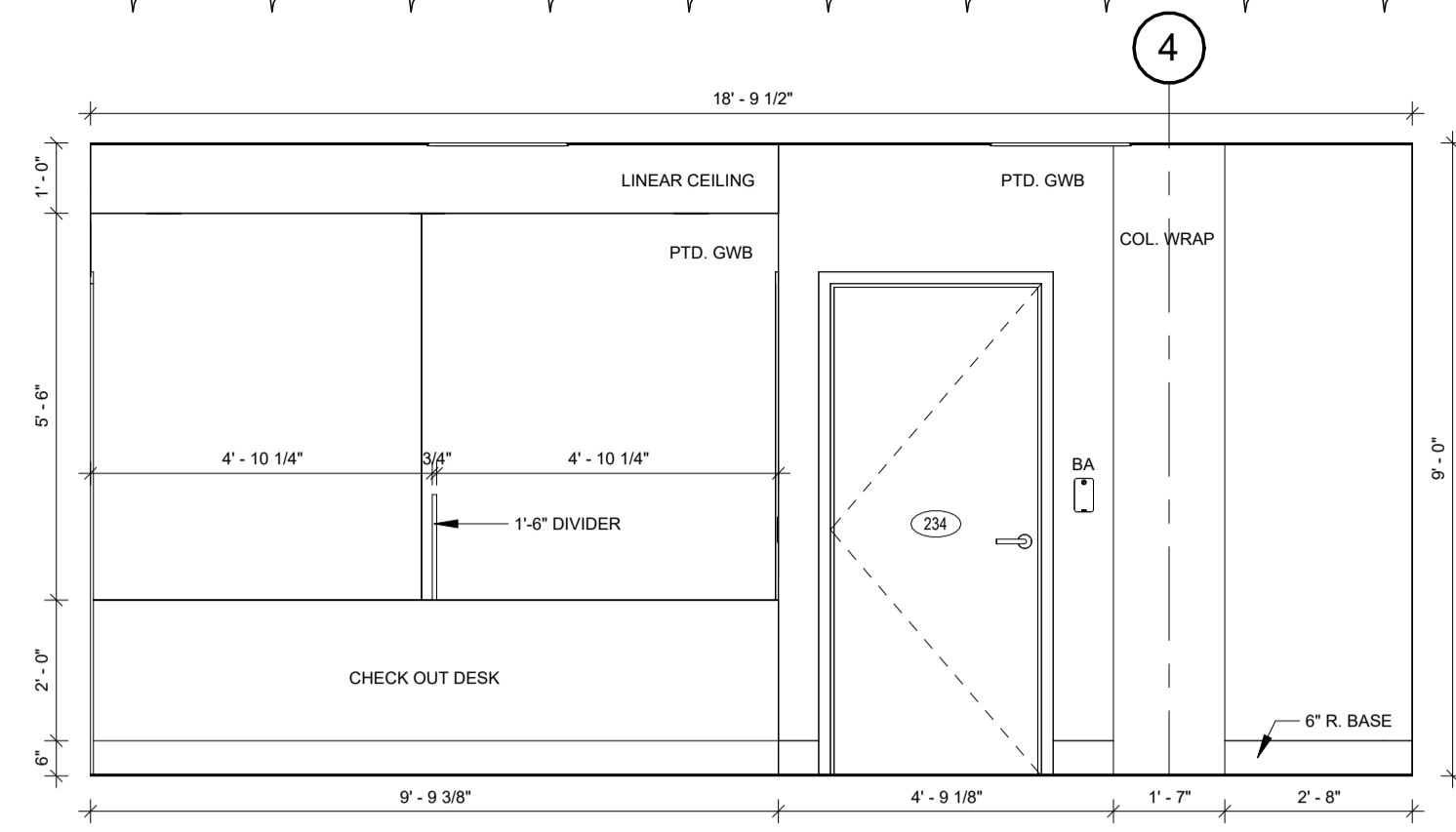
project no.
1682-24
date
17 SEPTEMBER 2025
revised
27 OCTOBER 2025

drawn by
DD/HJ

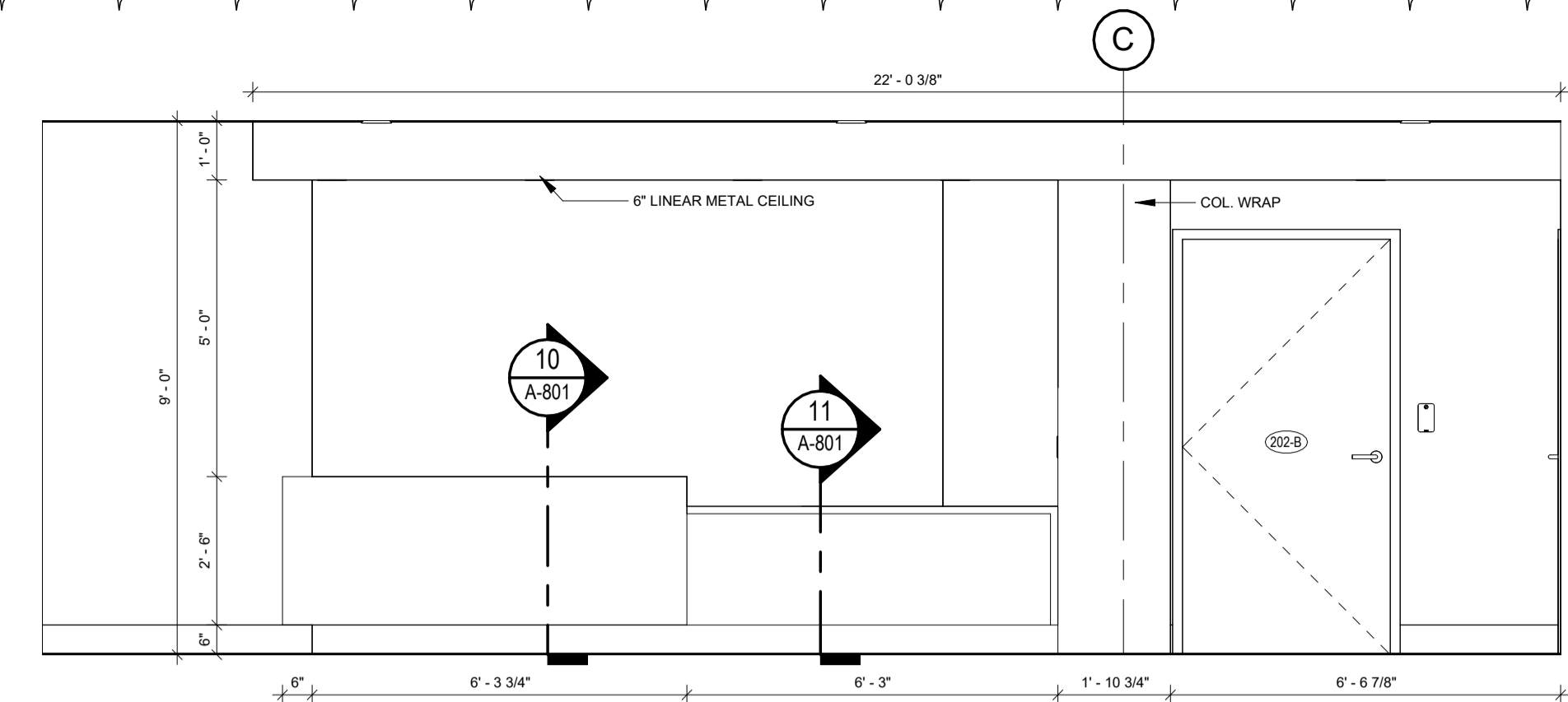
INTERIOR
ELEVATIONS

sheet no.
A-702

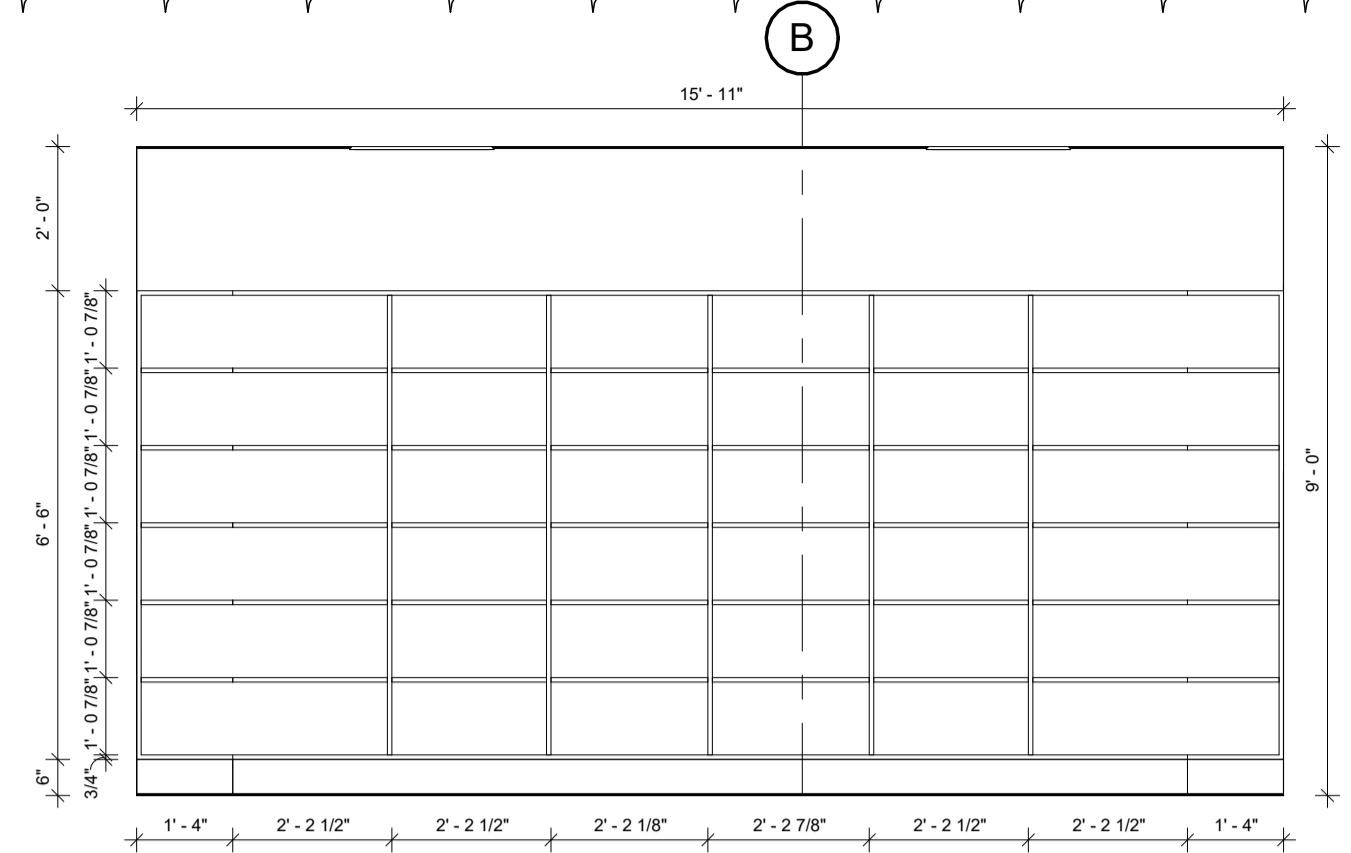
CONSTRUCTION DOCUMENTS



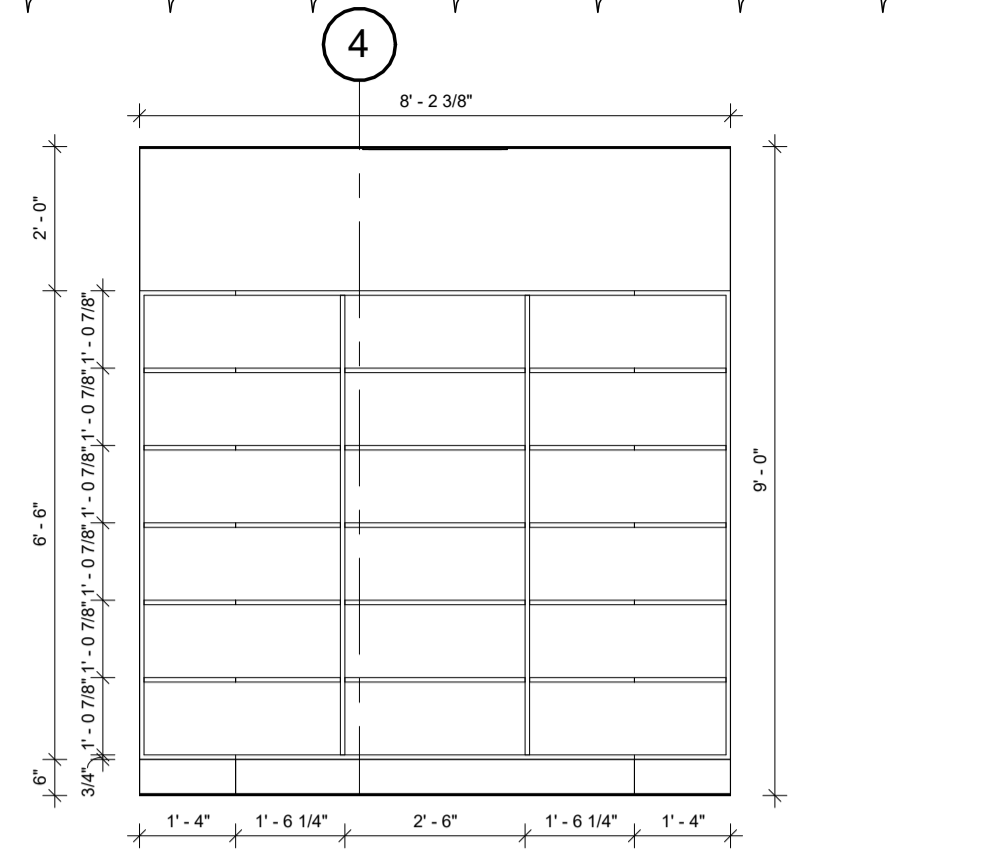
RECEIPT - 235 (CHK-OUT DESK)
SCALE: 3/8" = 1'-0"
1
A-702



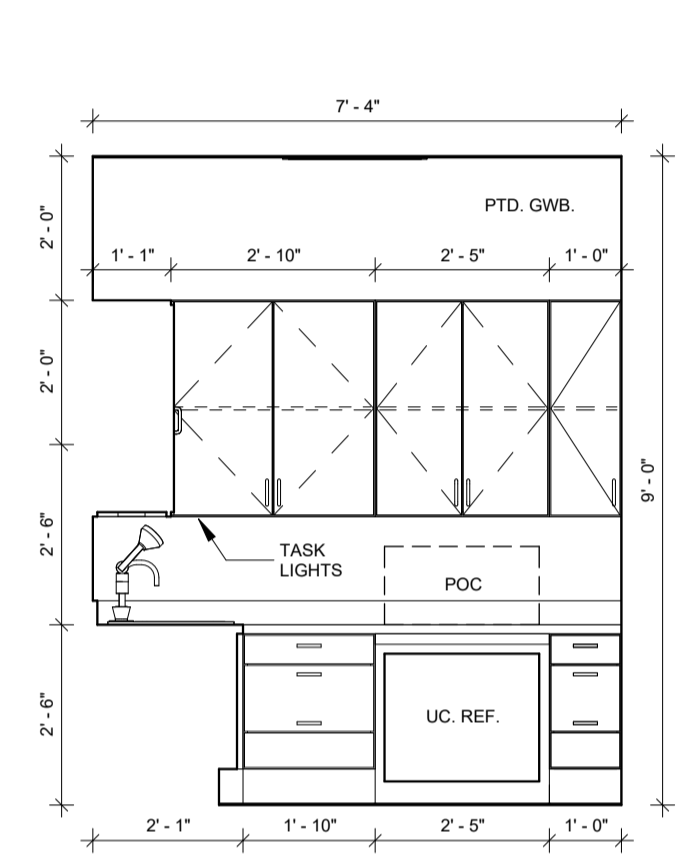
RECEIPT - 235 (RECEPT. DESK)
SCALE: 3/8" = 1'-0"
2
A-702



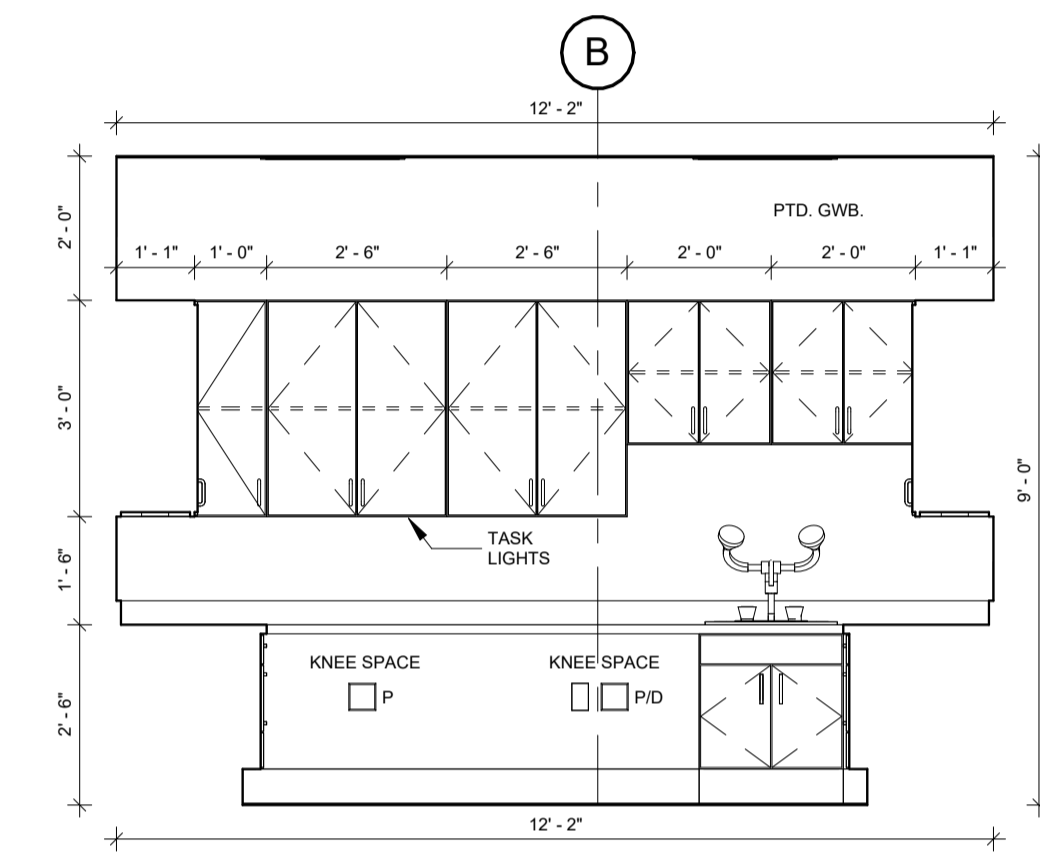
MED SUPPLY - 236 (E. WALL)
SCALE: 3/8" = 1'-0"
3
A-702



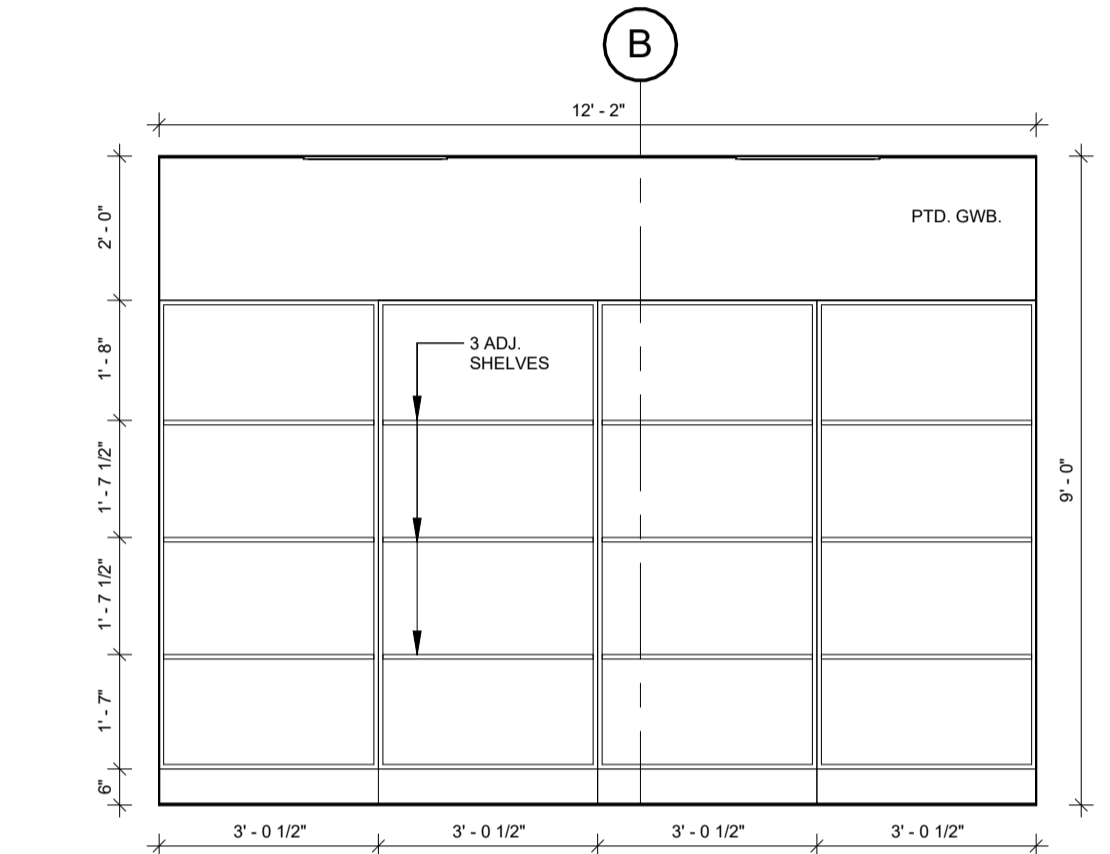
MED SUPPLY - 236 (N. WALL)
SCALE: 3/8" = 1'-0"
4
A-702



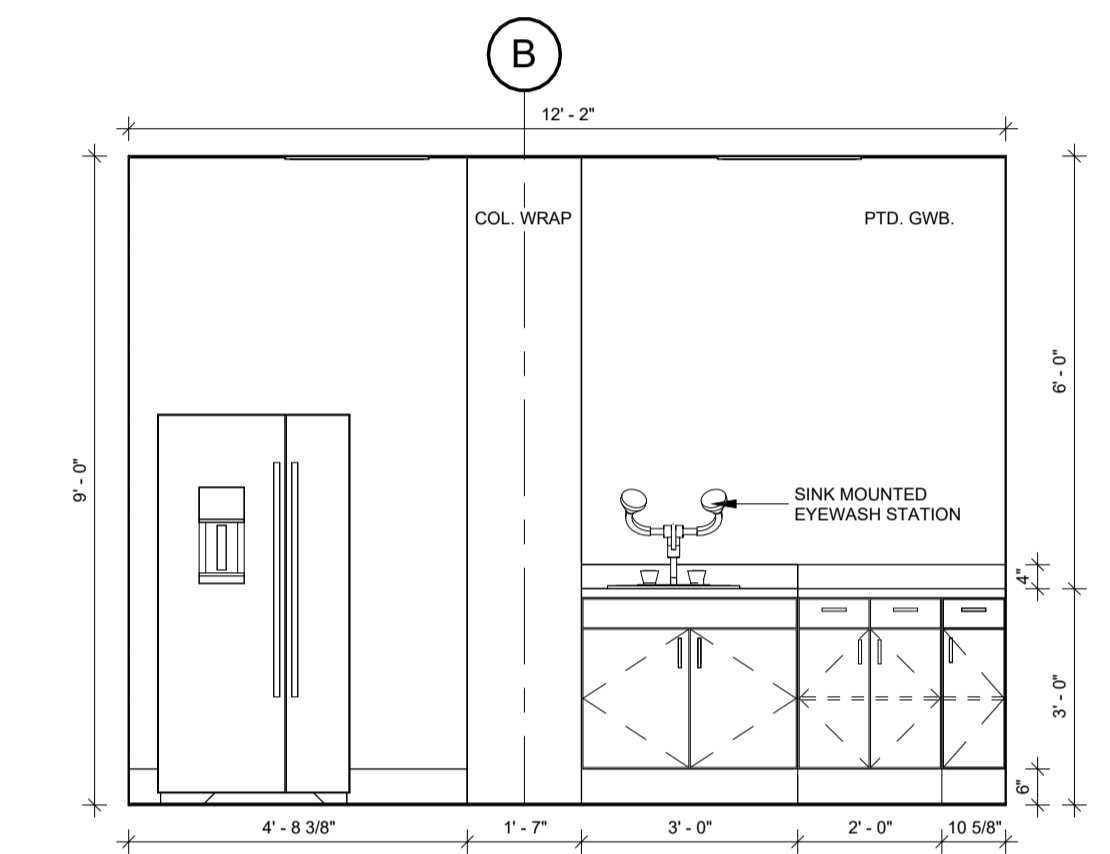
N. S. - 237 (N.WALL)
SCALE: 3/8" = 1'-0"
5
A-702



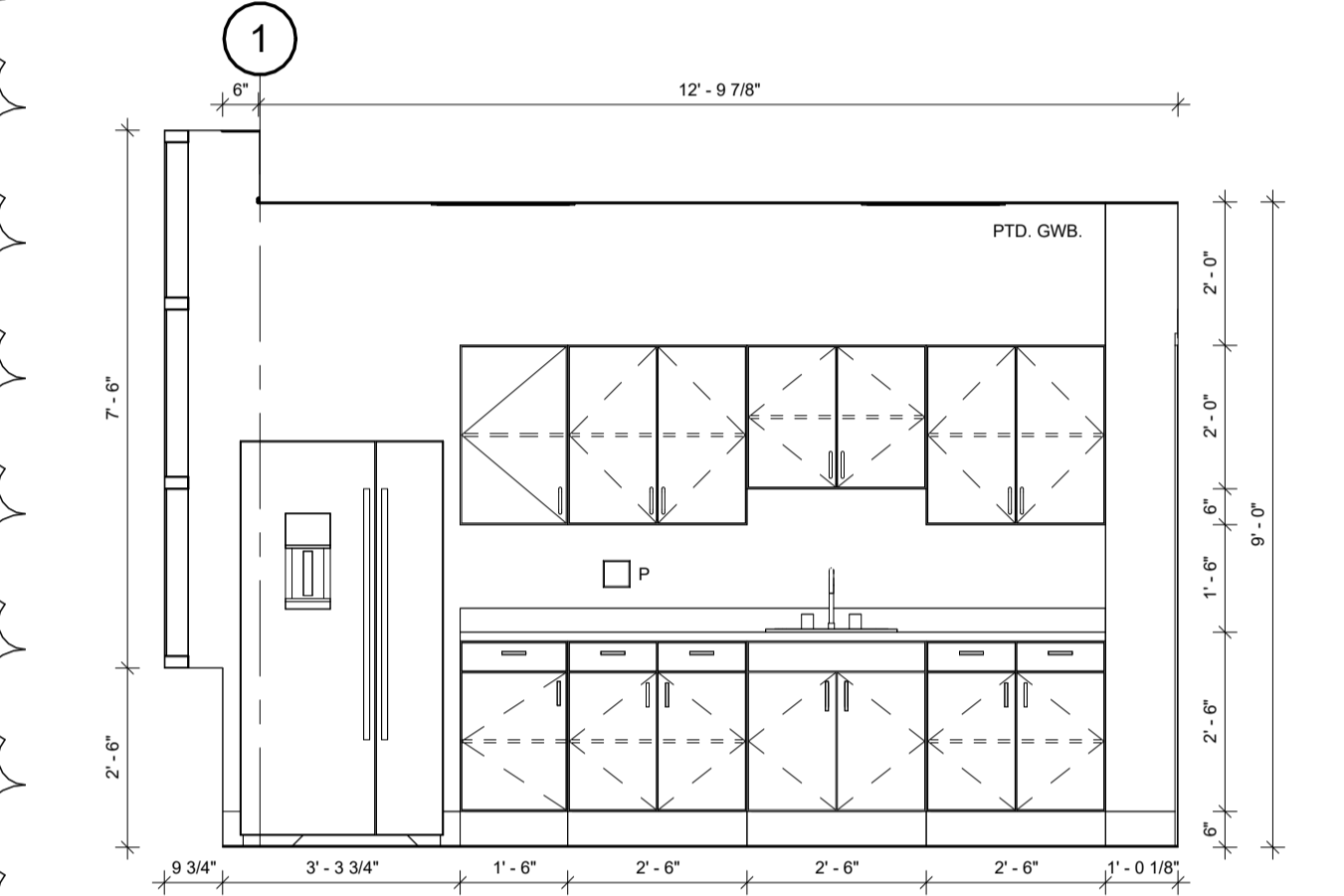
N. S. - 237 (W. WALL)
SCALE: 3/8" = 1'-0"
6
A-702



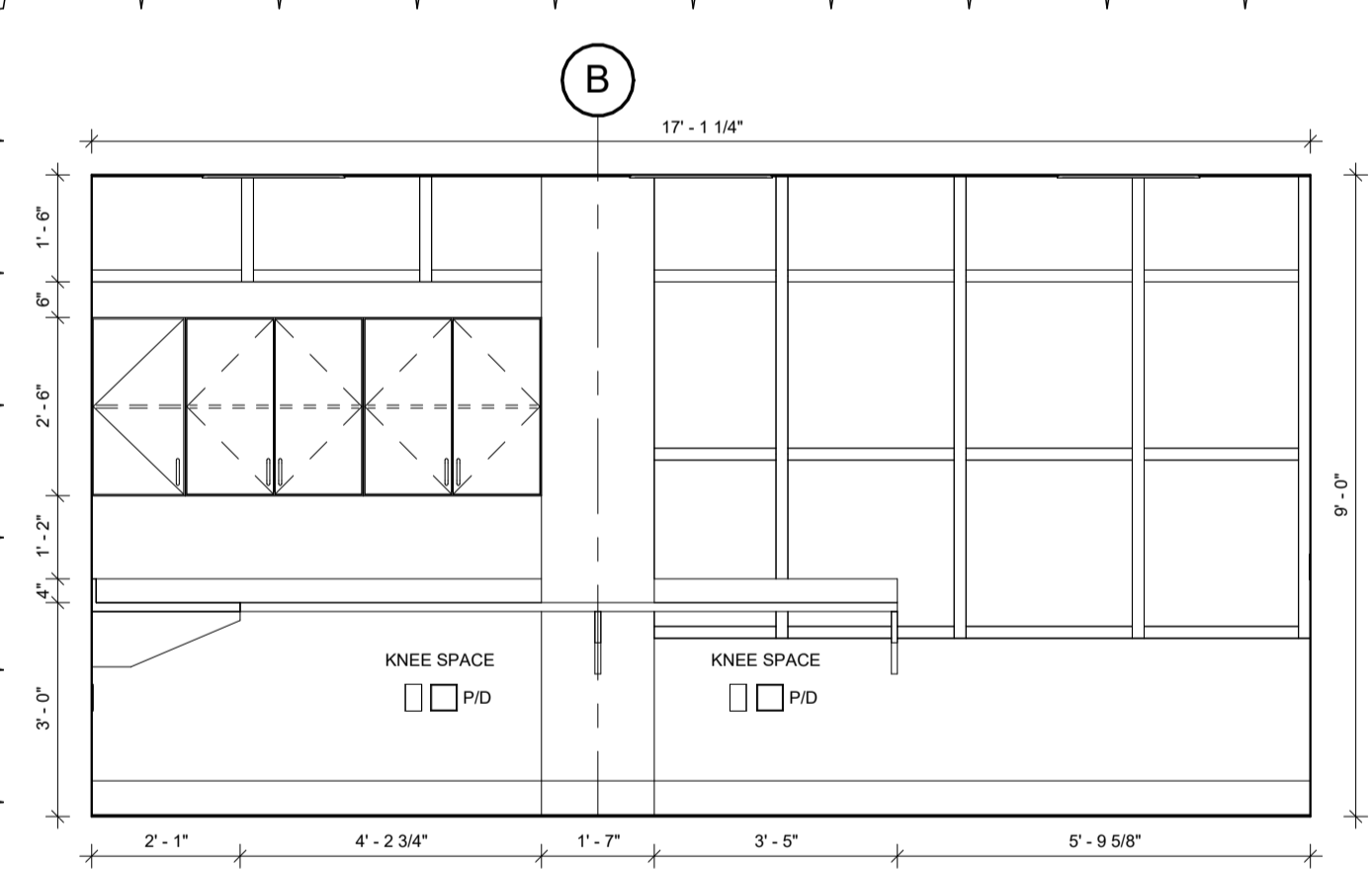
MED VAX - 238 (W. WALL)
SCALE: 3/8" = 1'-0"
7
A-702



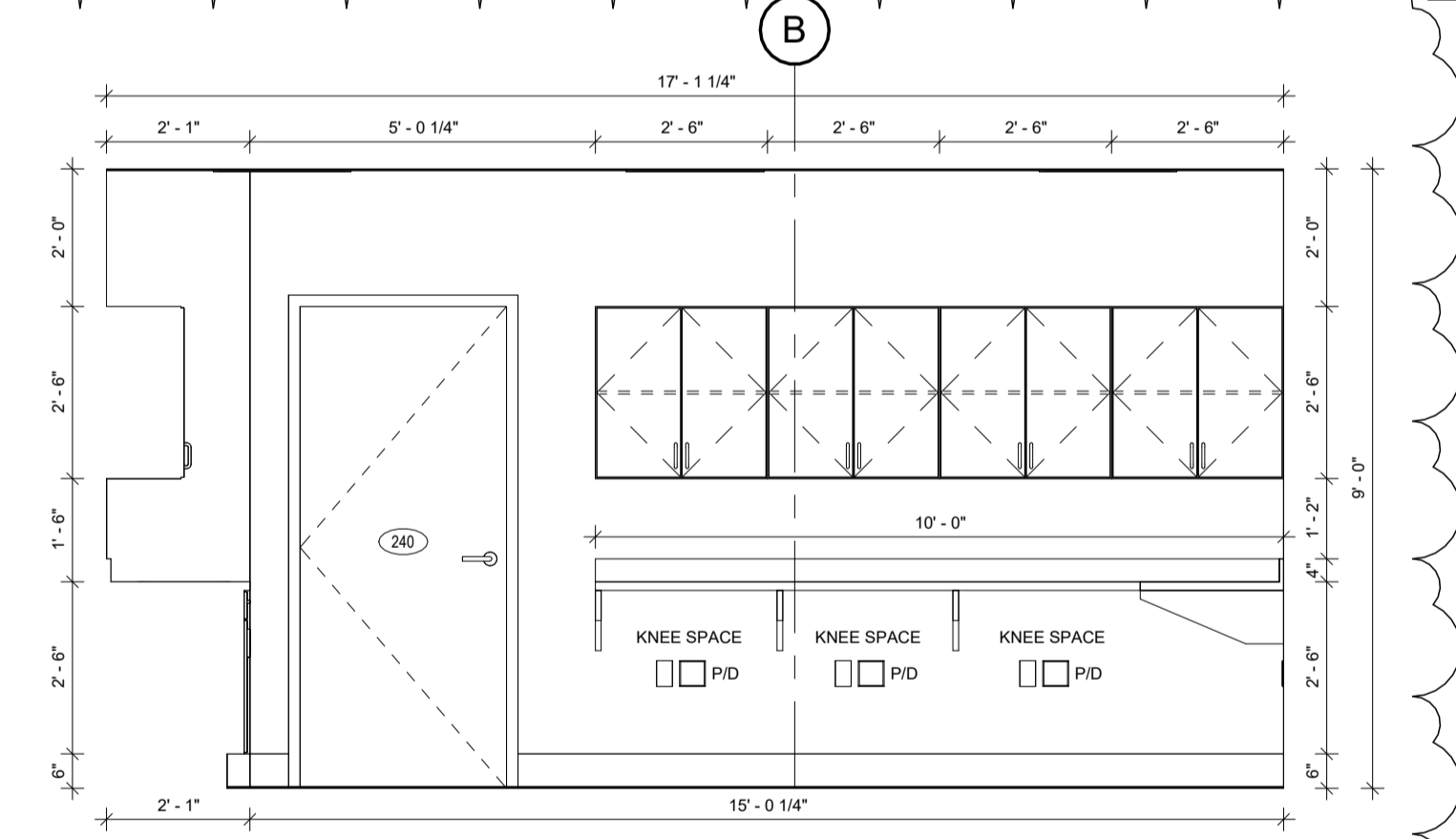
MED VAX - 238 (E. WALL)
SCALE: 3/8" = 1'-0"
8
A-702



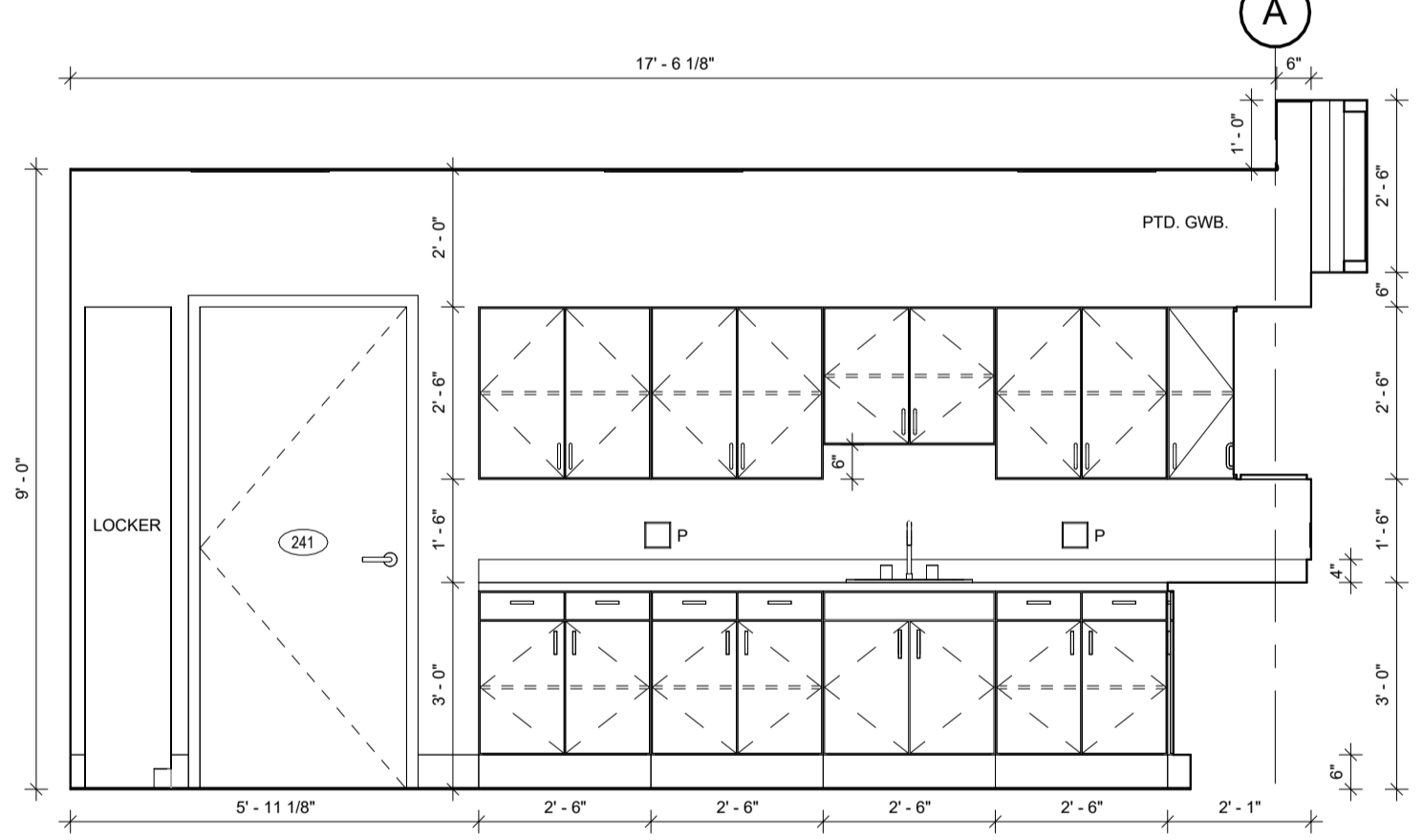
LEARNING-2 - 240 (N. WALL)
SCALE: 3/8" = 1'-0"
9
A-702



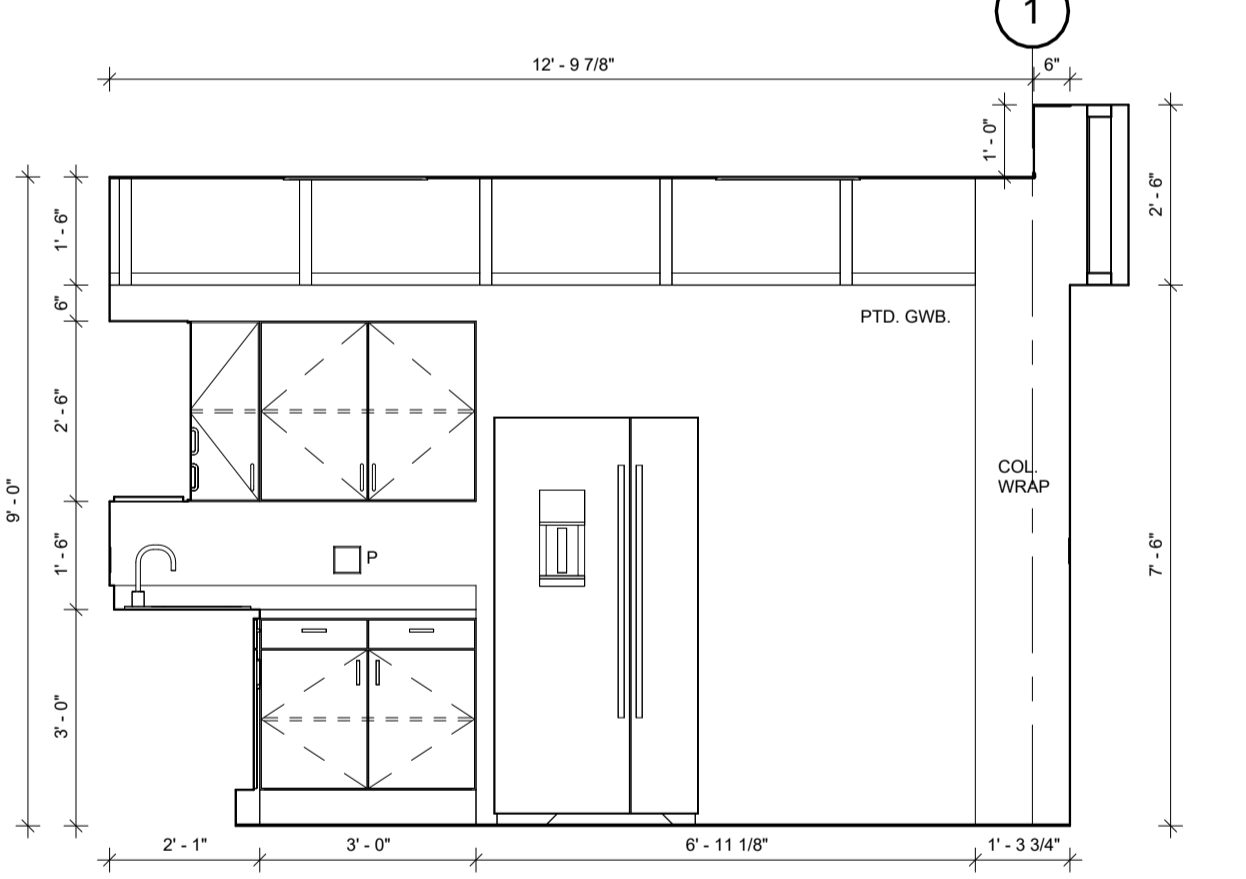
LEARNING-2 - 240 (W. WALL)
SCALE: 3/8" = 1'-0"
10
A-702



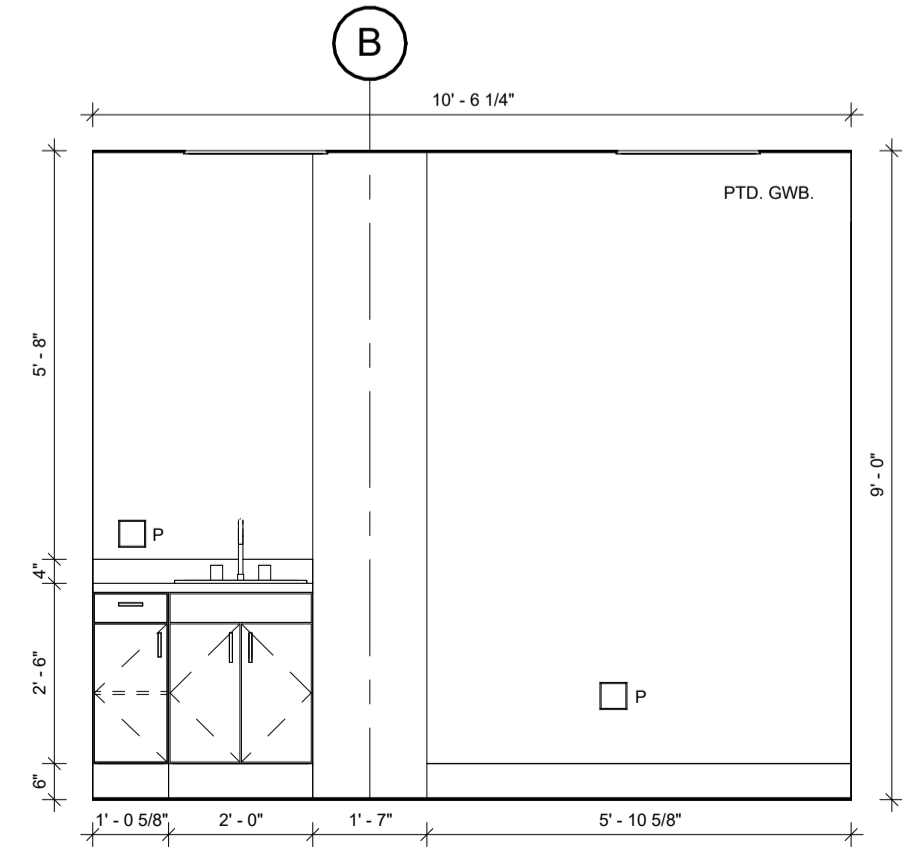
LEARNING-2 - 240 (E. WALL)
SCALE: 3/8" = 1'-0"
11
A-702



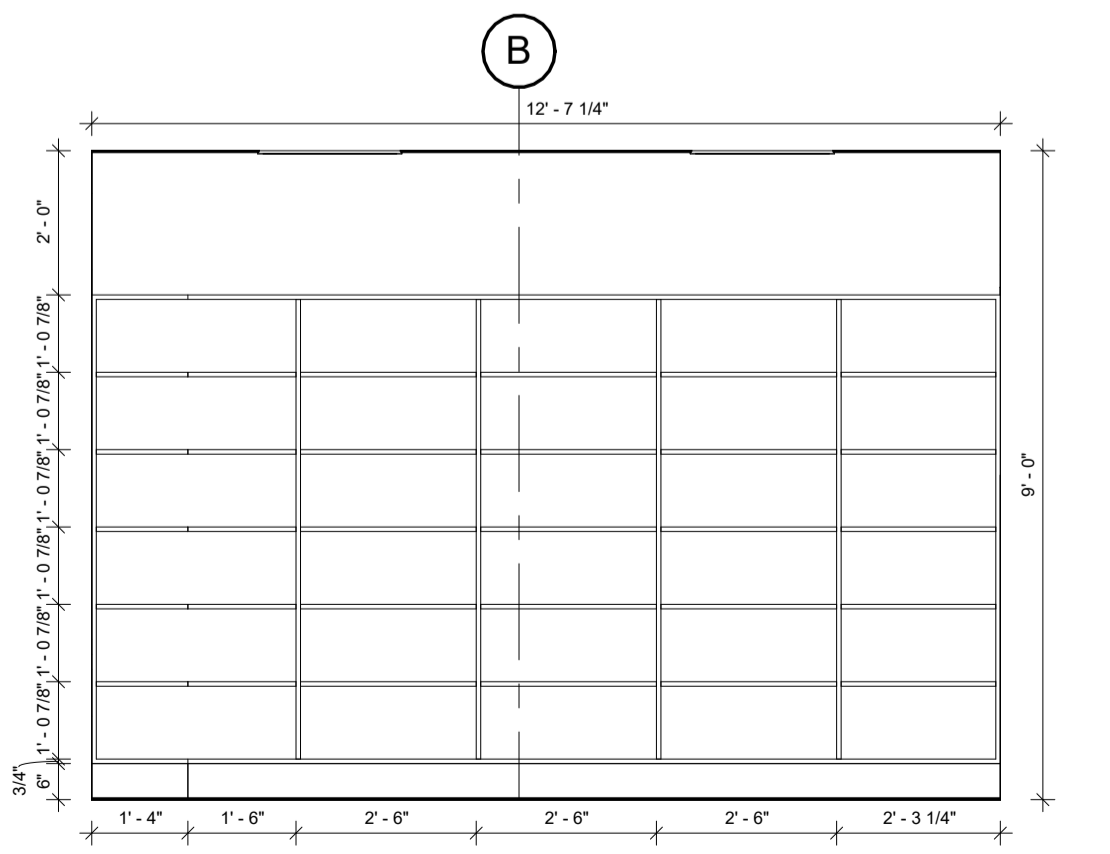
STAFF BRK. RM. - 241 (E. WALL)
SCALE: 3/8" = 1'-0"
12
A-702



STAFF BRK. RM. - 241 (S. WALL)
SCALE: 3/8" = 1'-0"
13
A-702



VITALS - 253 (E. WALL)
SCALE: 3/8" = 1'-0"
14
A-702



MED SUP. CLT. - 254 (E. WALL)
SCALE: 3/8" = 1'-0"
15
A-702



FOIL WYATT
Architects & Planners, PLLC
SUITE 300
150 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TELEPHONE: (601) 521-4071
FAX: (601) 521-4072
EMAIL: info@foilwyatt.com
www.foilwyatt.com

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UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
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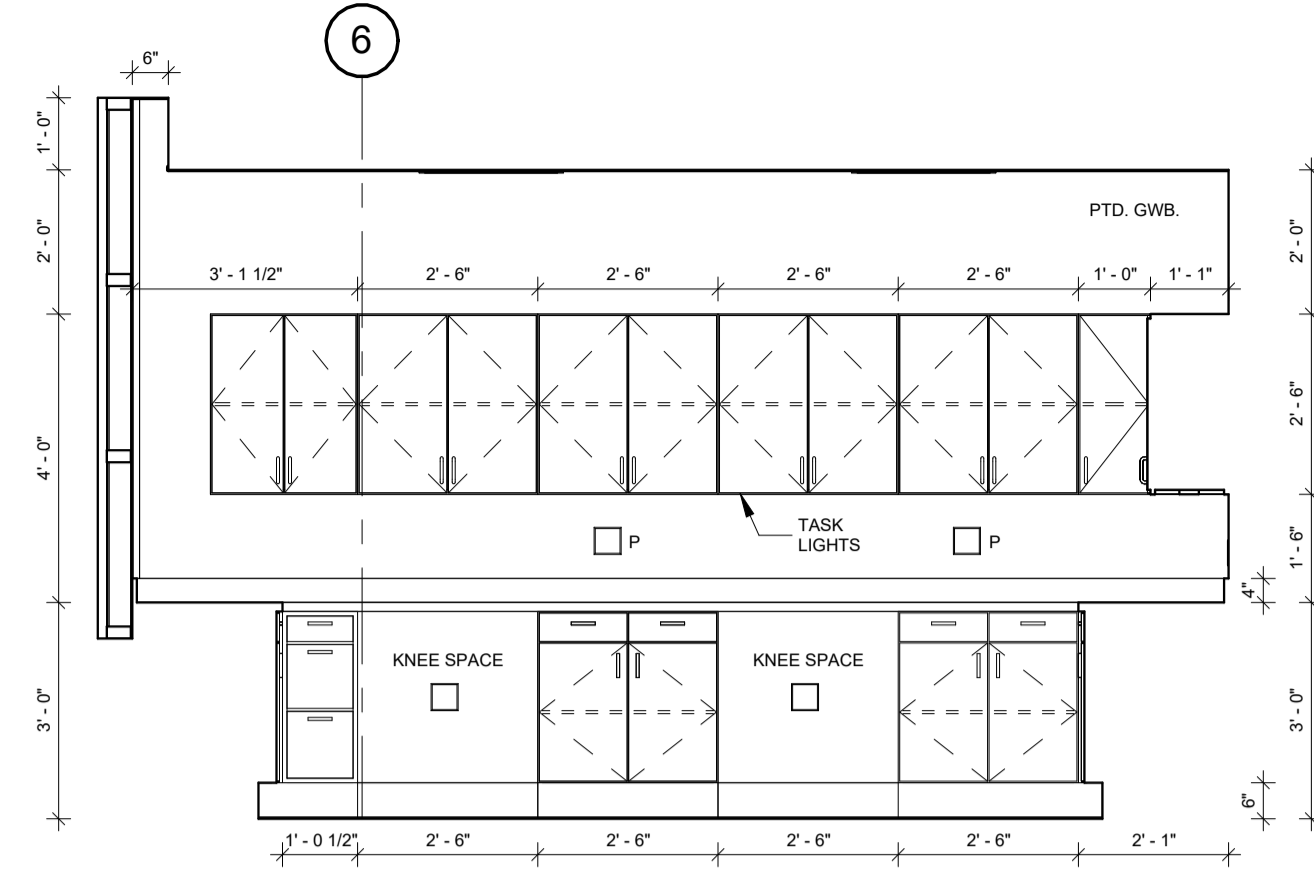
project no.
1682-24
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revised
27 OCTOBER 2025

drawn by
DD/HJ

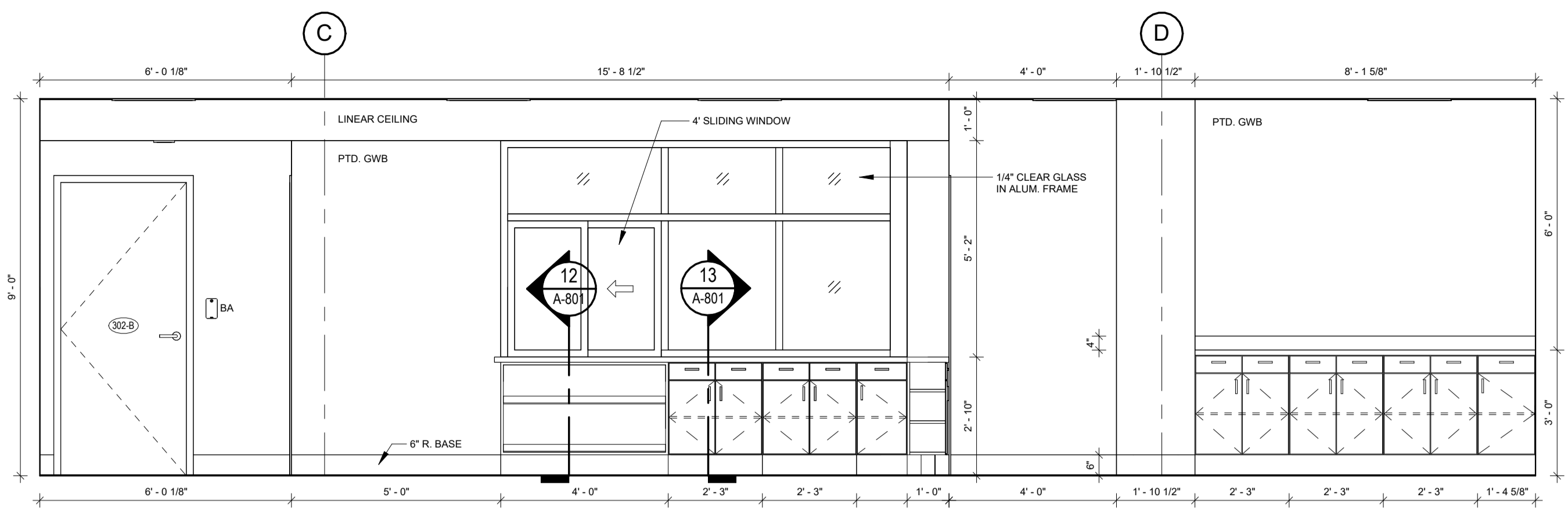
**INTERIOR
ELEVATIONS**

sheet no.
A-703

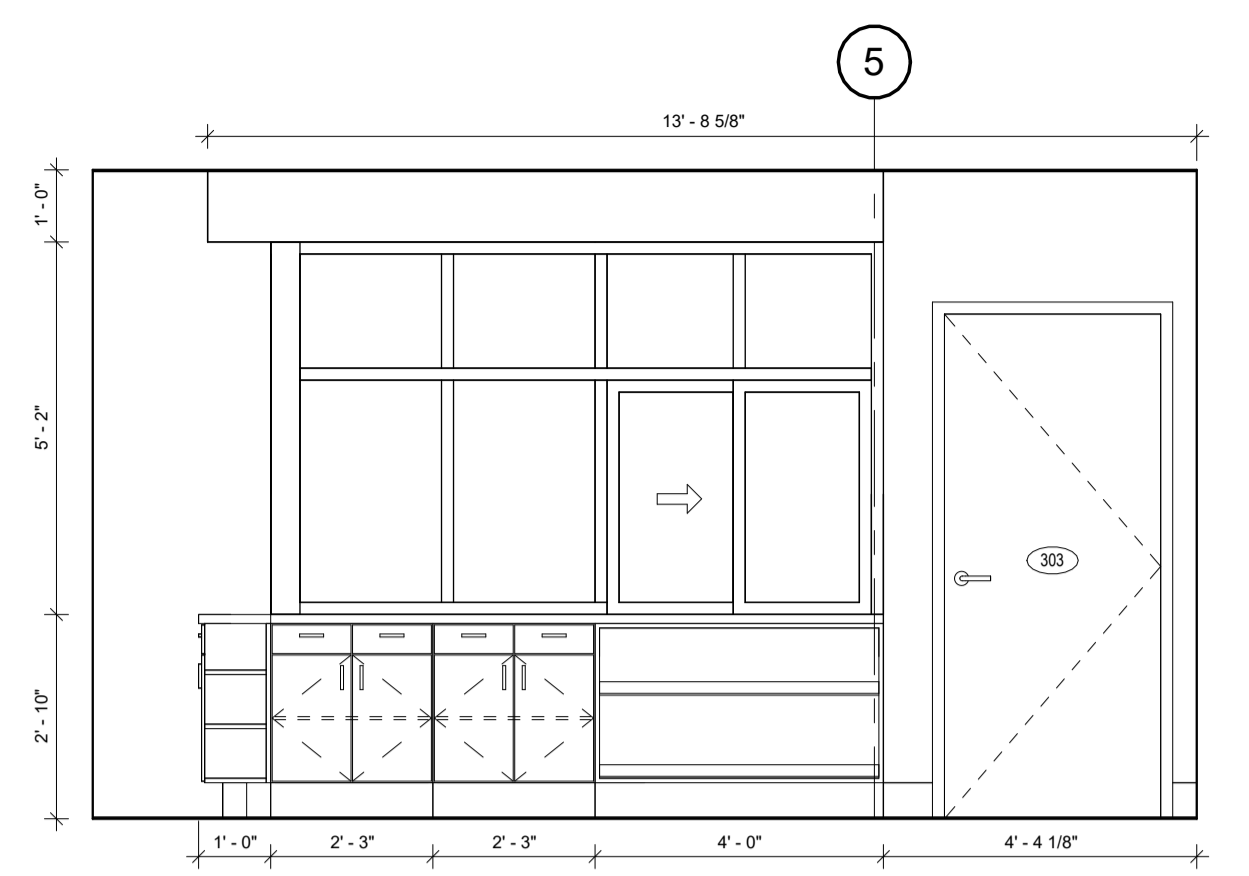
CONSTRUCTION DOCUMENTS



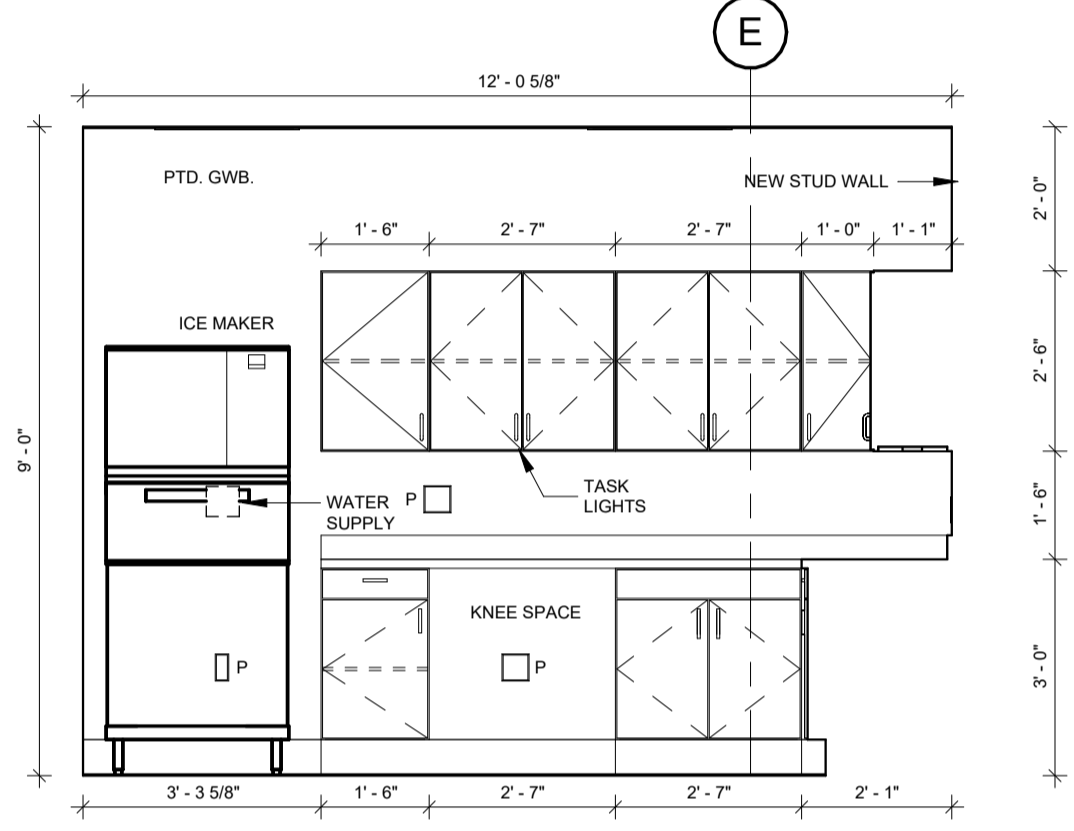
REP. SHIPPING - 305 (S. WALL)
SCALE: 3/8" = 1'-0"
A-703



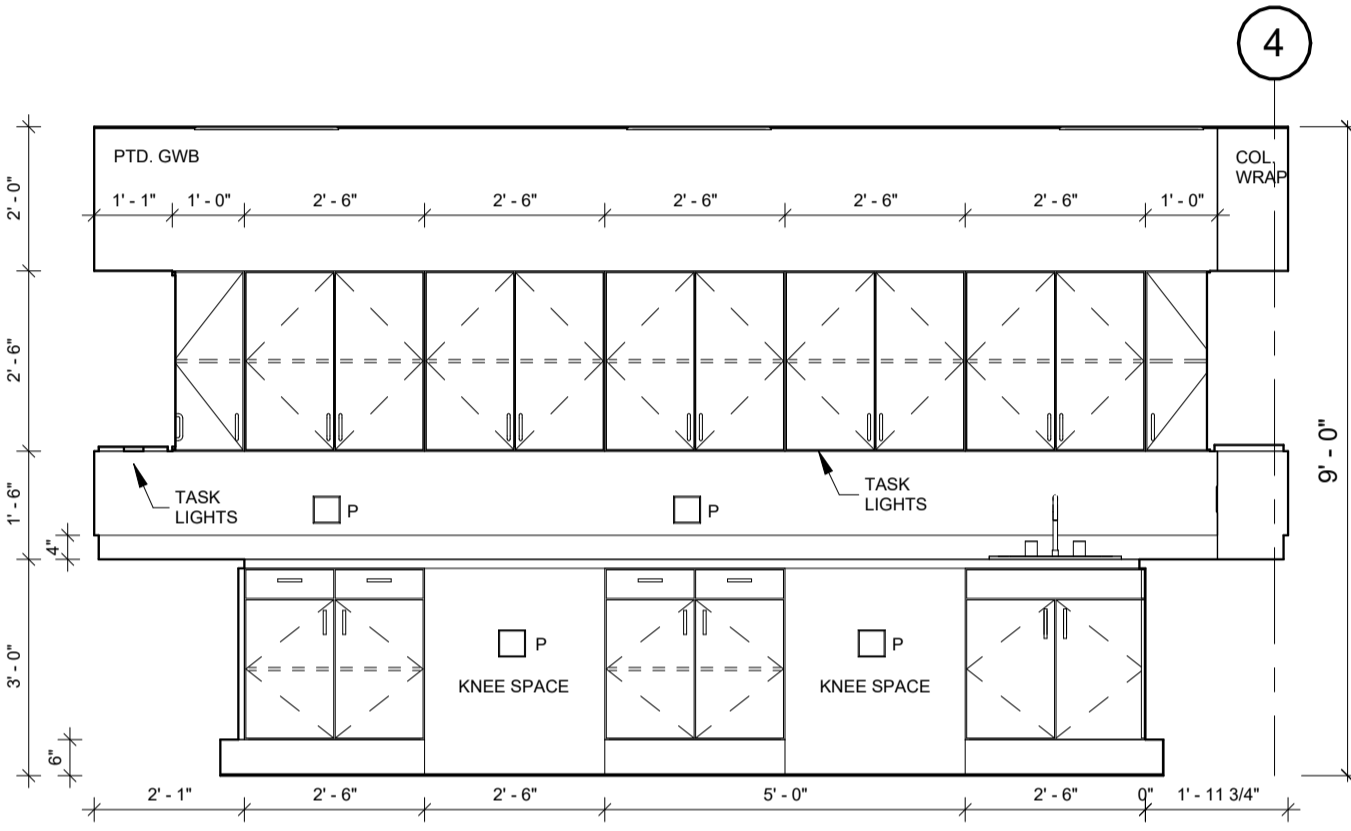
WAITING - 302 (W. WALL)
SCALE: 3/8" = 1'-0"
A-703



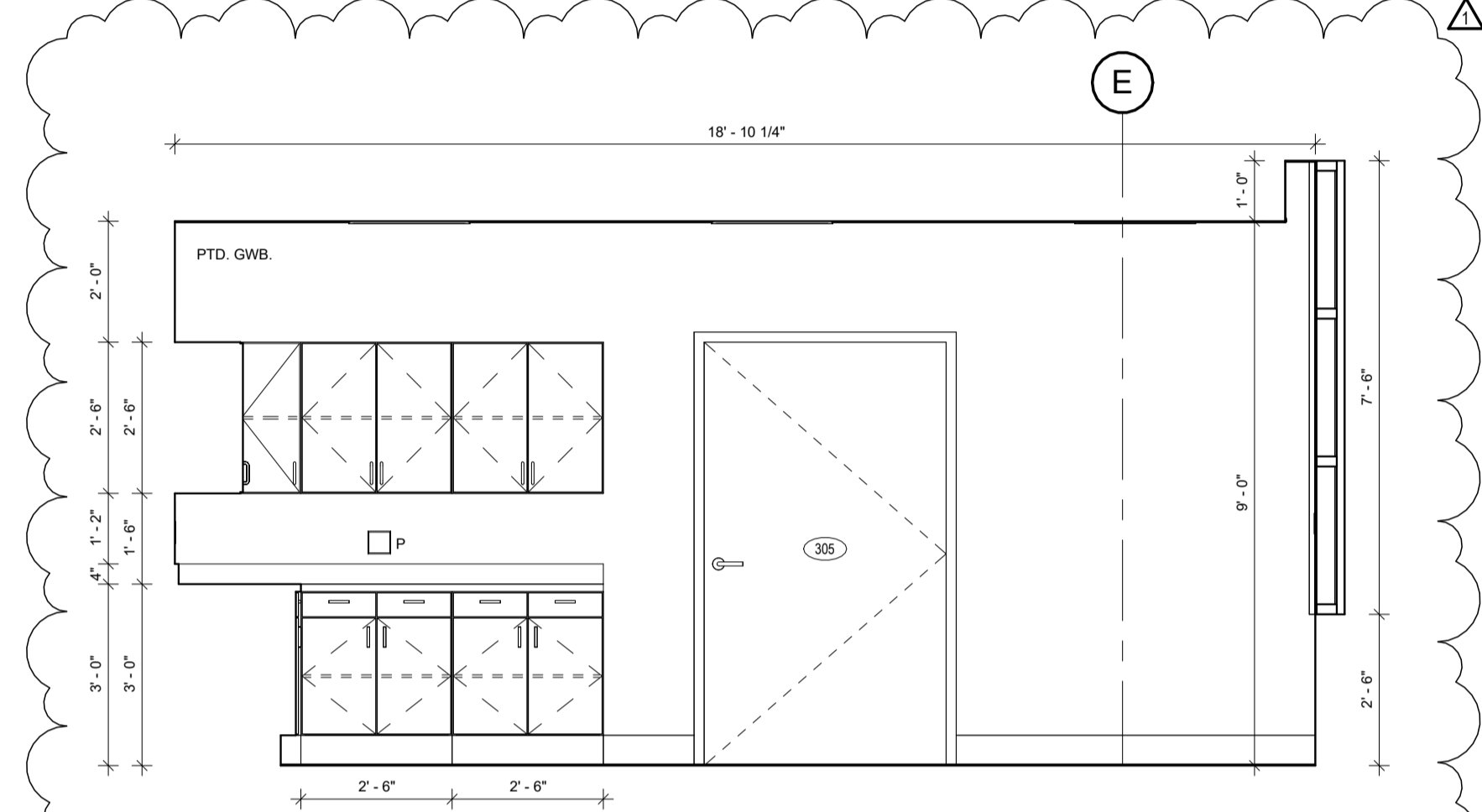
WAITING - 302 (S. WALL)
SCALE: 3/8" = 1'-0"
A-703



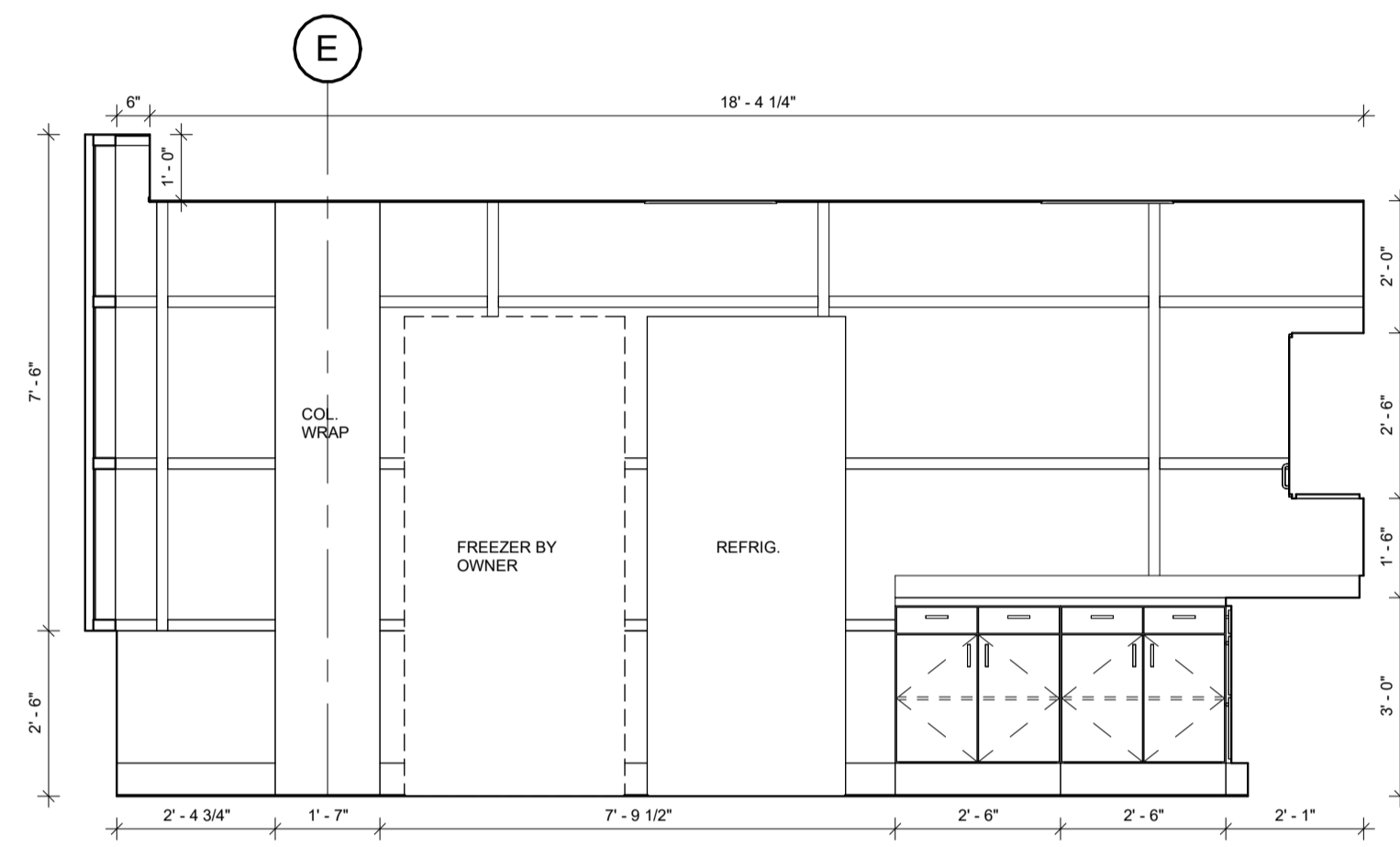
LAB - 311 (W. WALL)
SCALE: 3/8" = 1'-0"
A-703



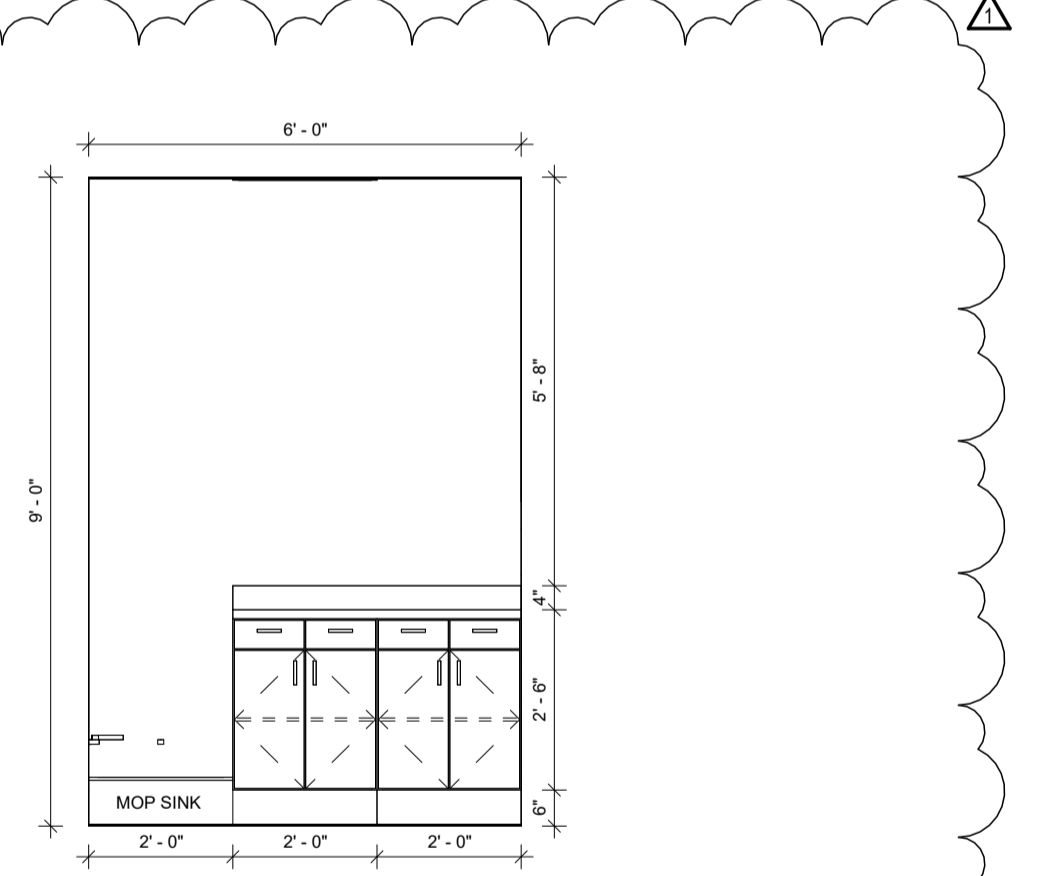
LAB - 311 (N. WALL)
SCALE: 3/8" = 1'-0"
A-703



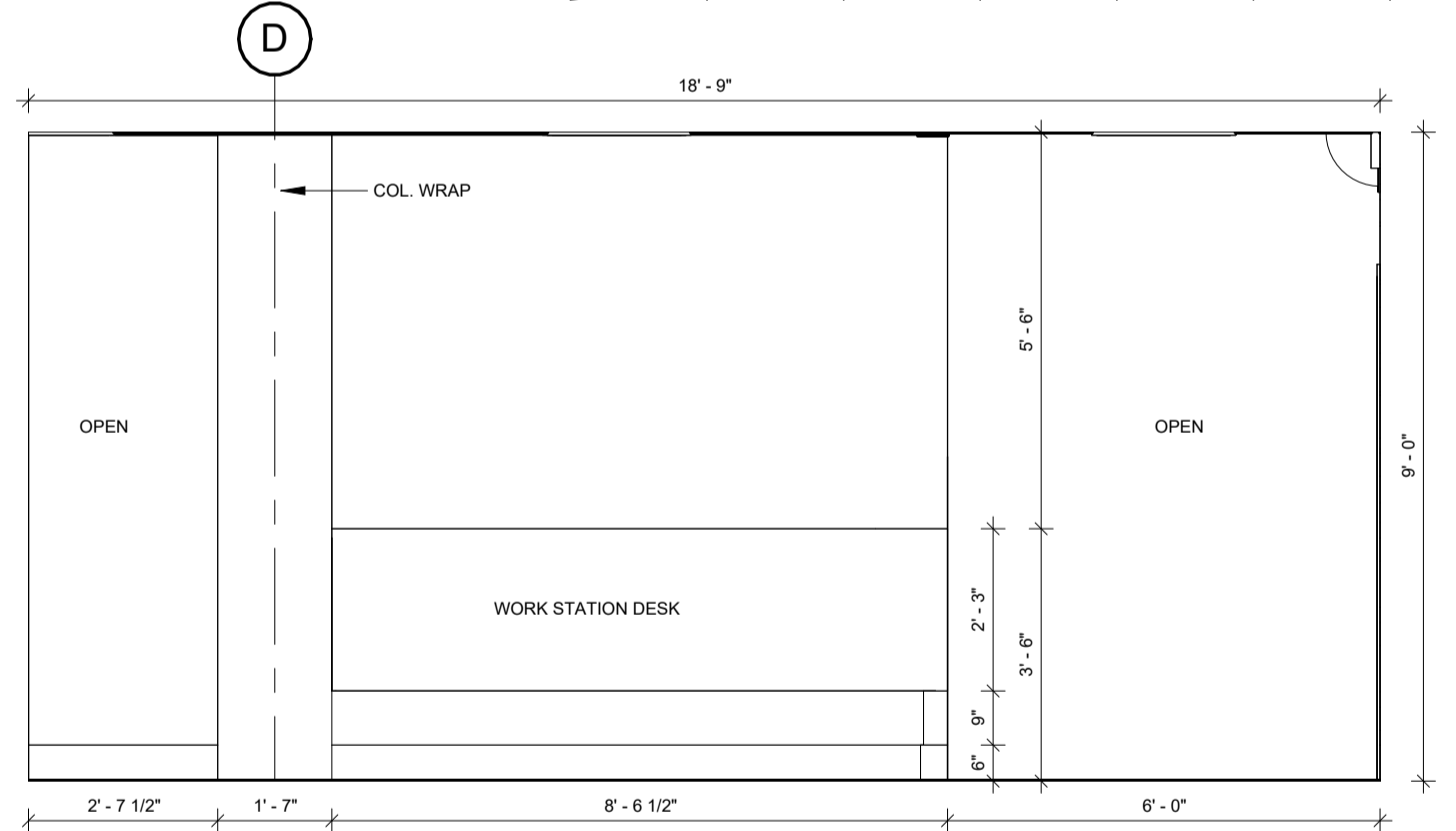
REP. SHIPPING - 305 (W. WALL)
SCALE: 3/8" = 1'-0"
A-703



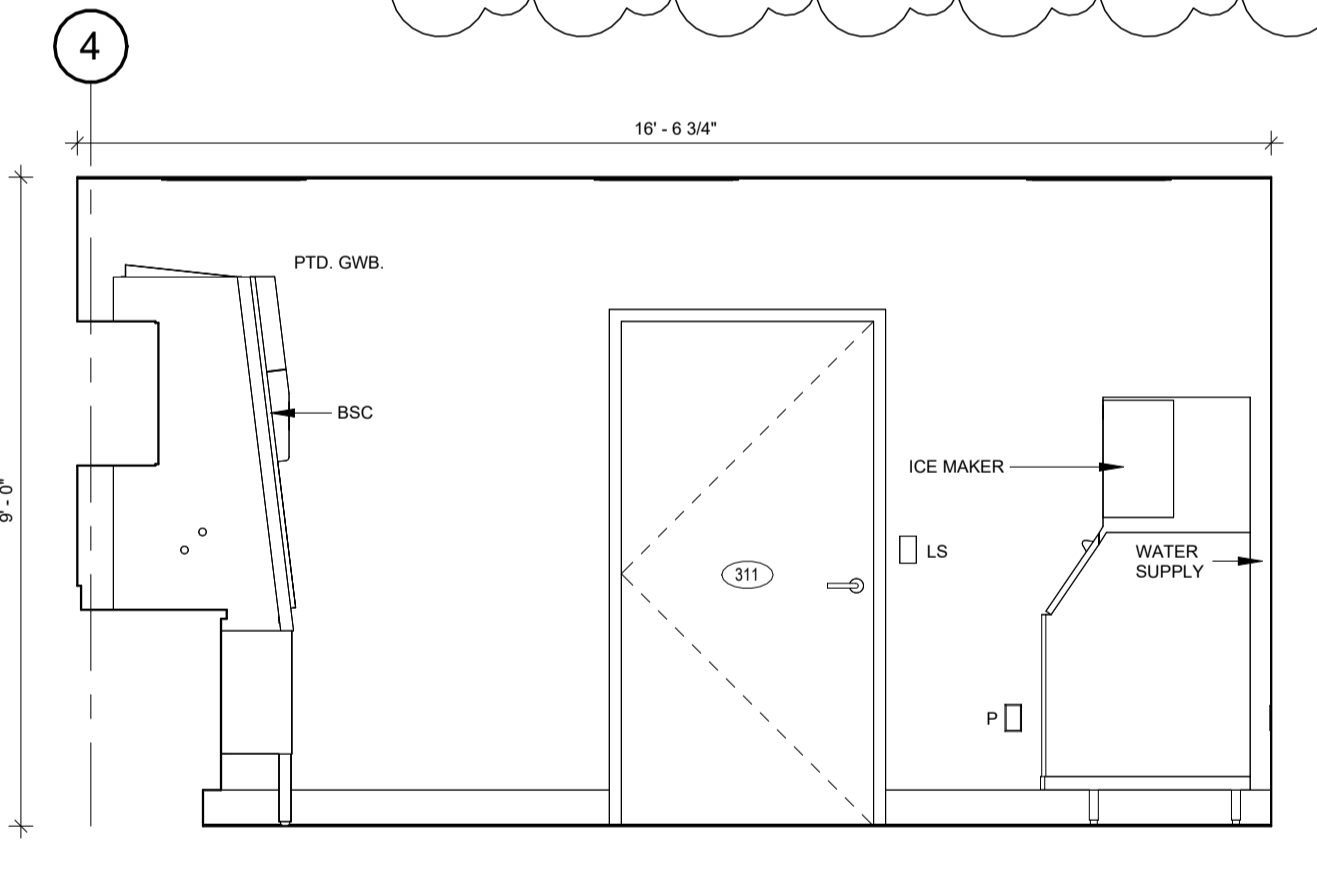
REP. SHIPPING - 305 (E. WALL)
SCALE: 3/8" = 1'-0"
A-703



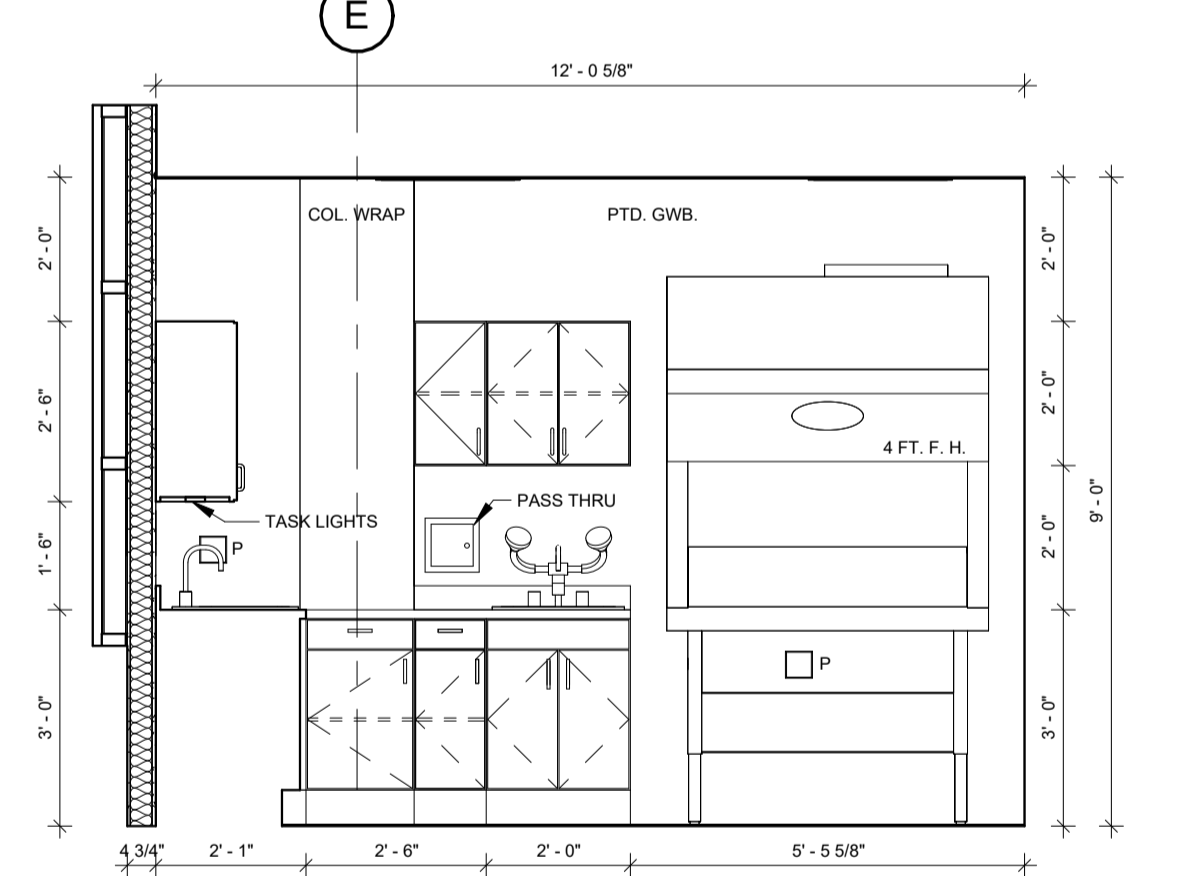
H. K. - 316 (N. WALL)
SCALE: 3/8" = 1'-0"
A-703



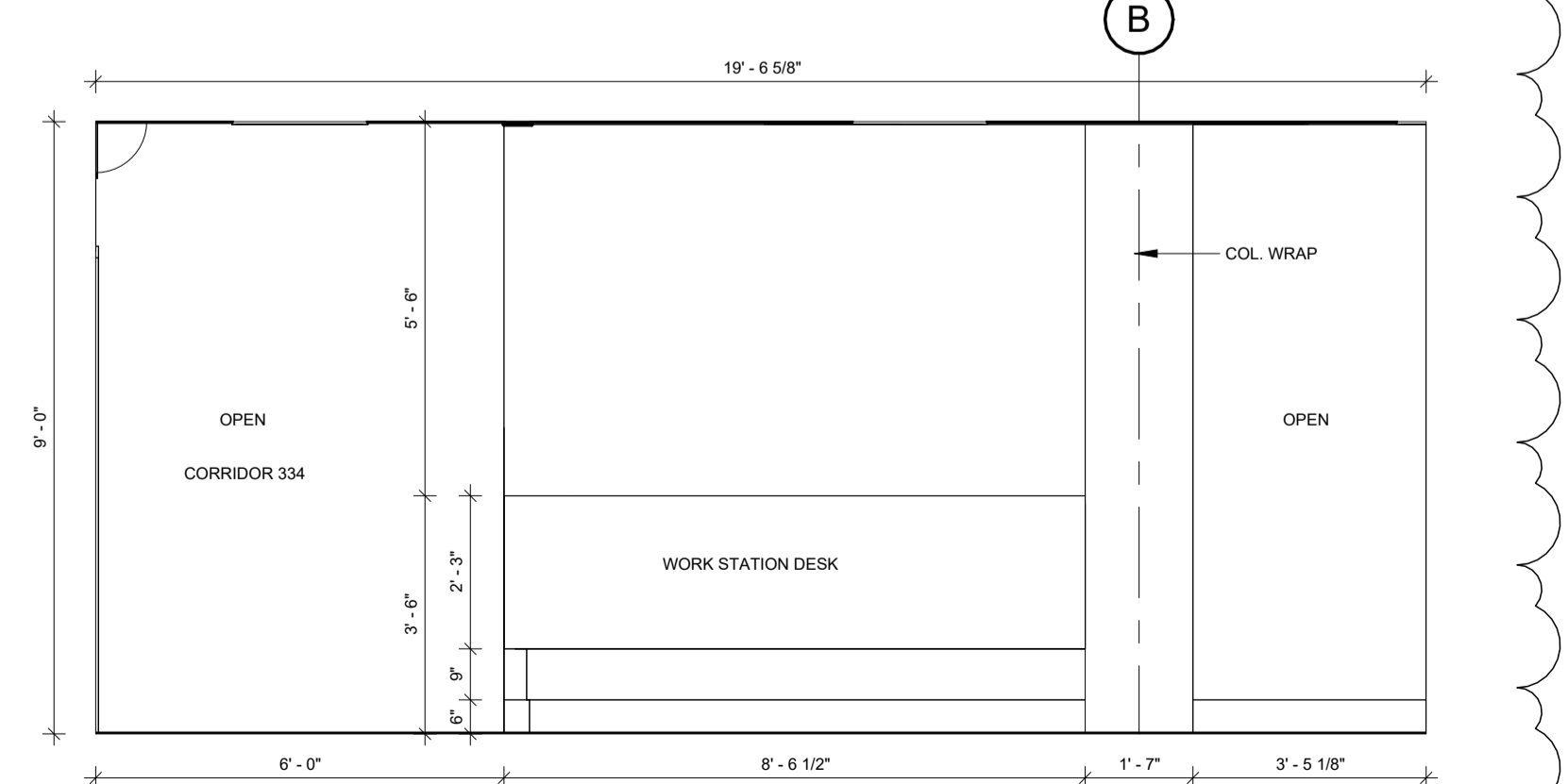
W. S. - 313 (COUNTER)
SCALE: 3/8" = 1'-0"
A-703



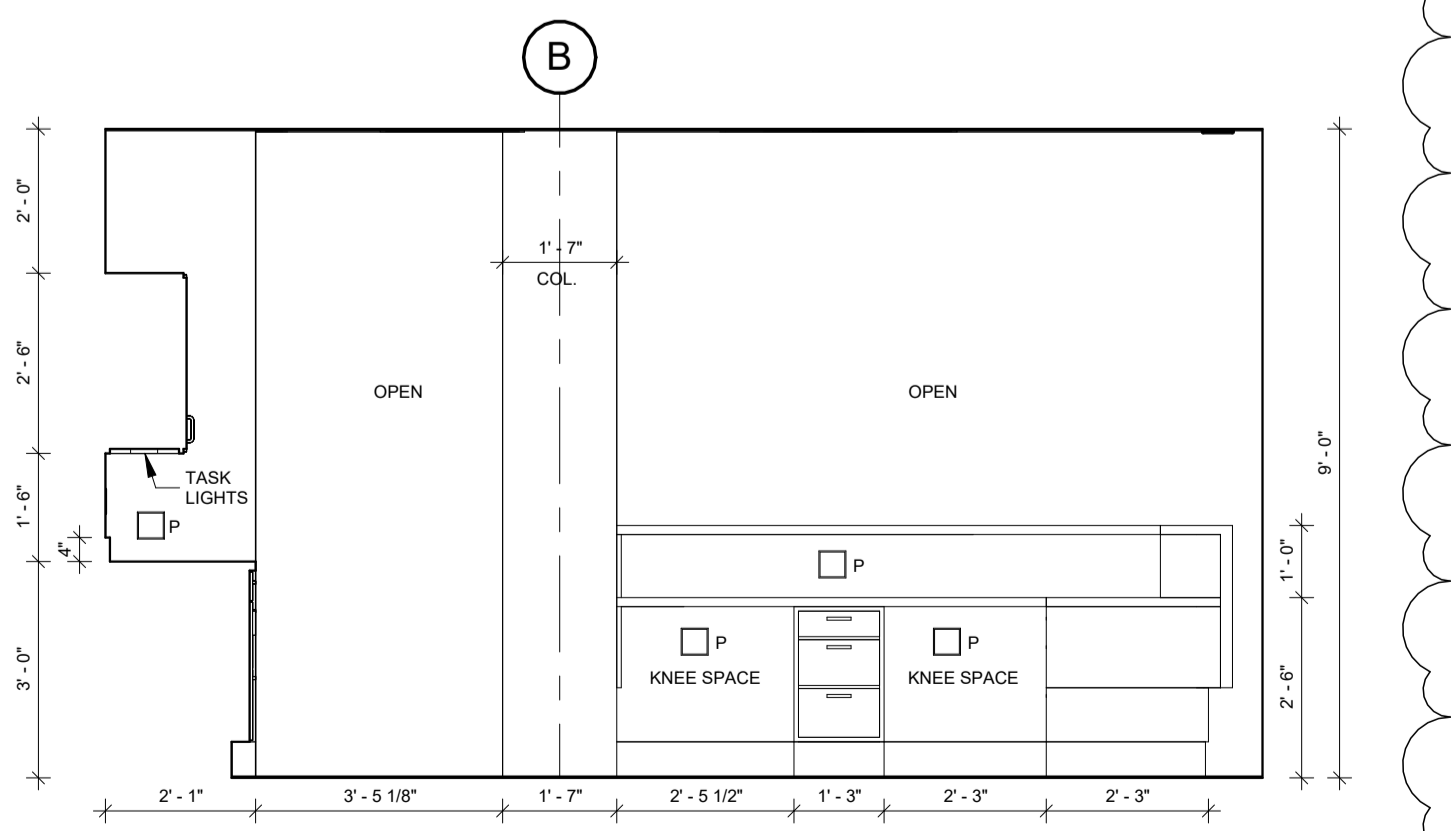
LAB - 311 (S. WALL)
SCALE: 3/8" = 1'-0"
A-703



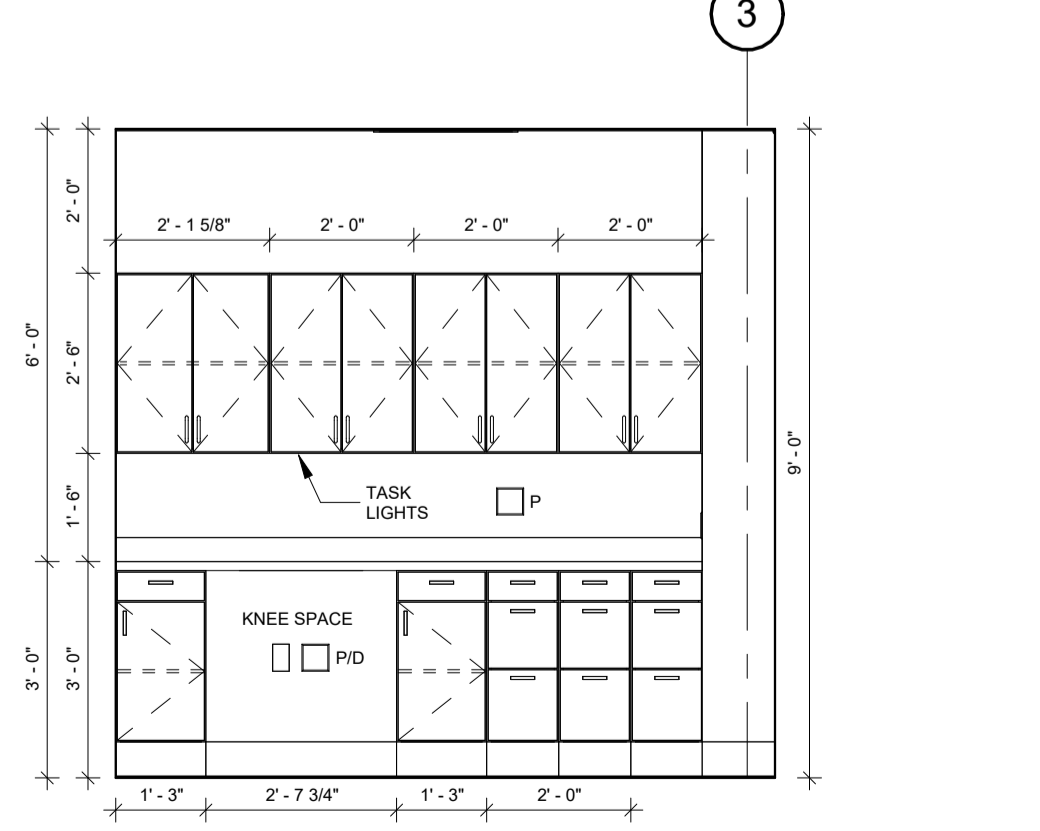
LAB - 311 (E. WALL)
SCALE: 3/8" = 1'-0"
A-703



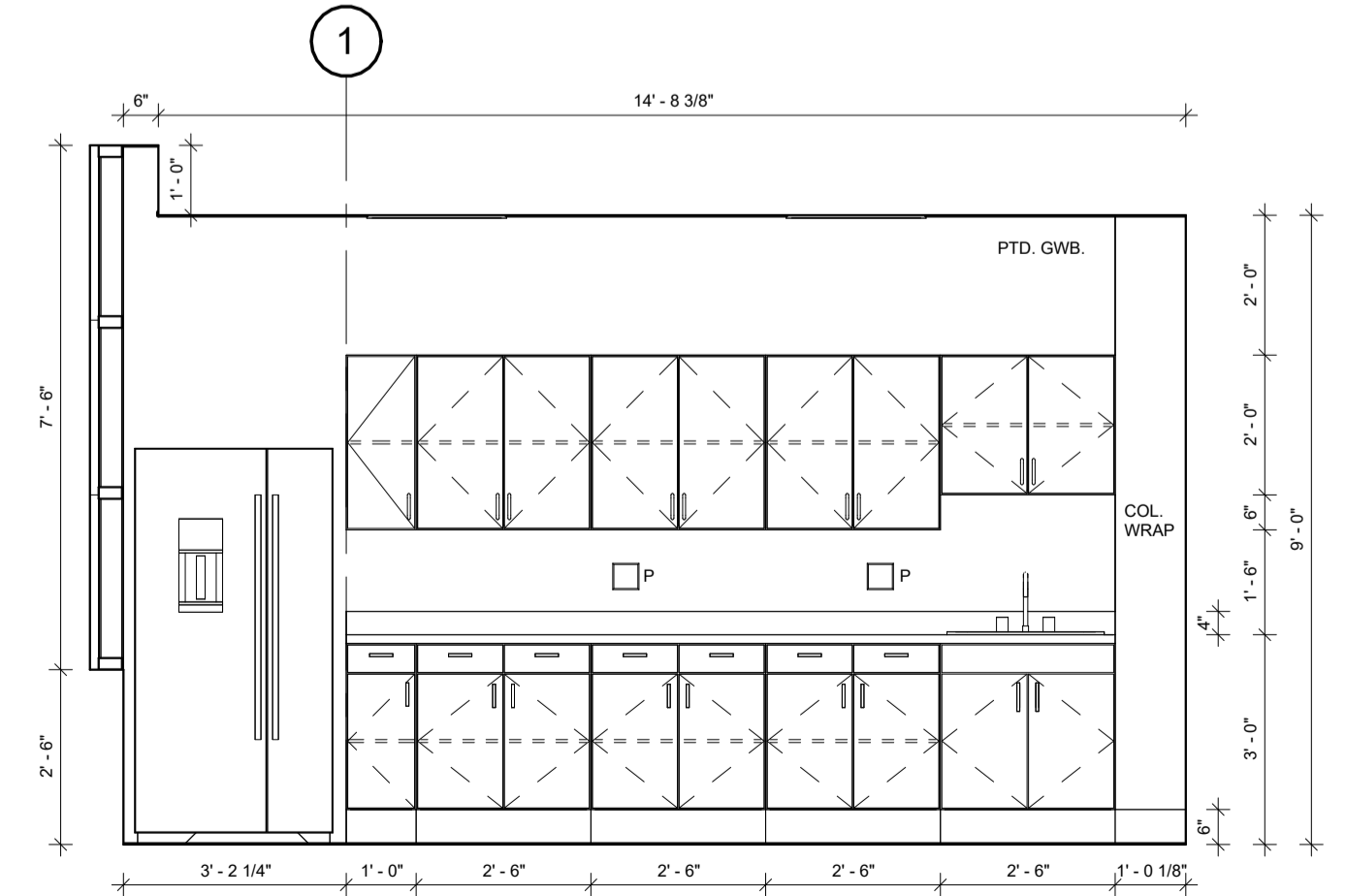
W. S. - 329 (COUNTER)
SCALE: 3/8" = 1'-0"
A-703



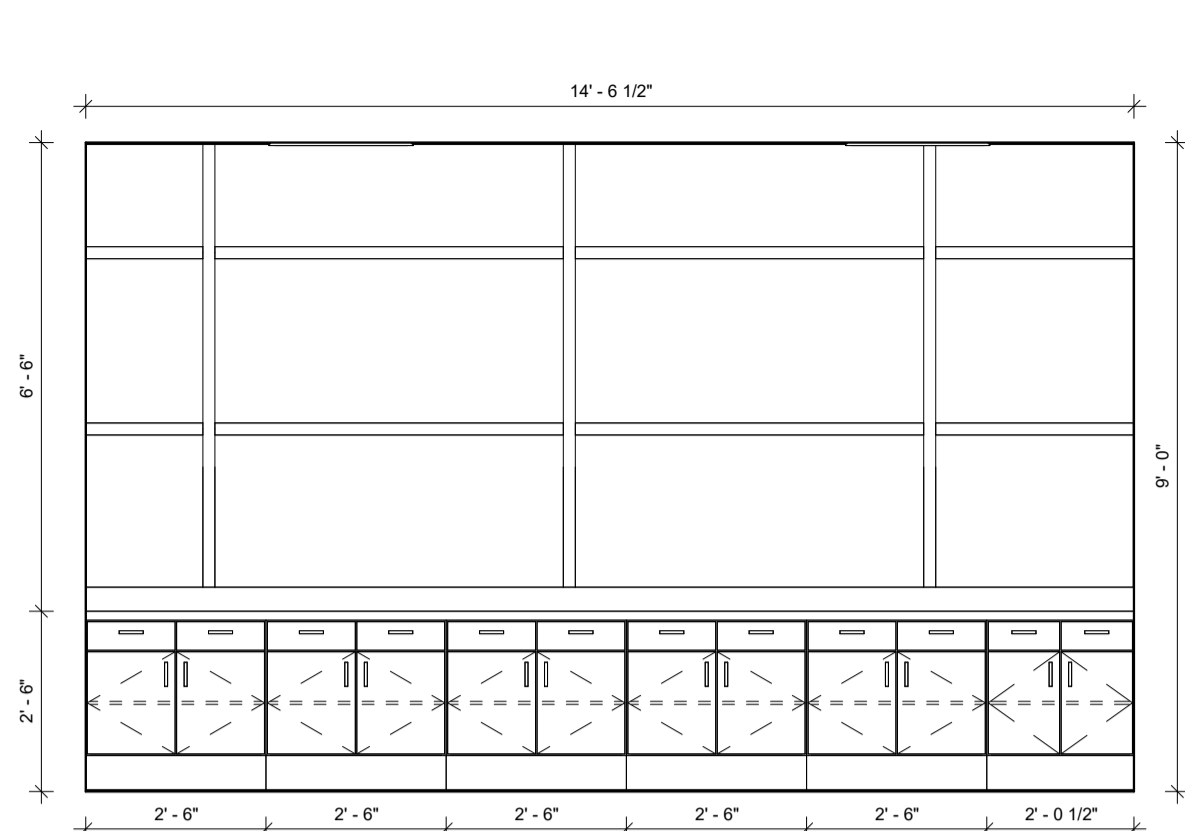
W. S. - 329 (E. WALL)
SCALE: 3/8" = 1'-0"
A-703



W. S. - 329 (N. WALL)
SCALE: 3/8" = 1'-0"
A-703

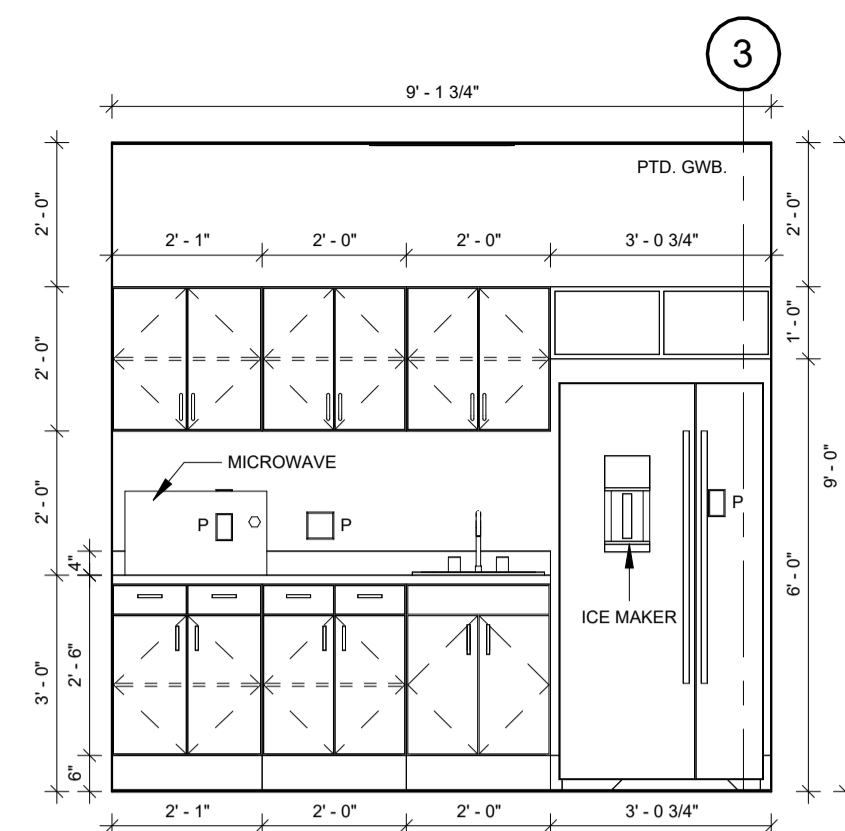


BRK. ROOM - 327-1 (N. WALL)
SCALE: 3/8" = 1'-0"
A-703



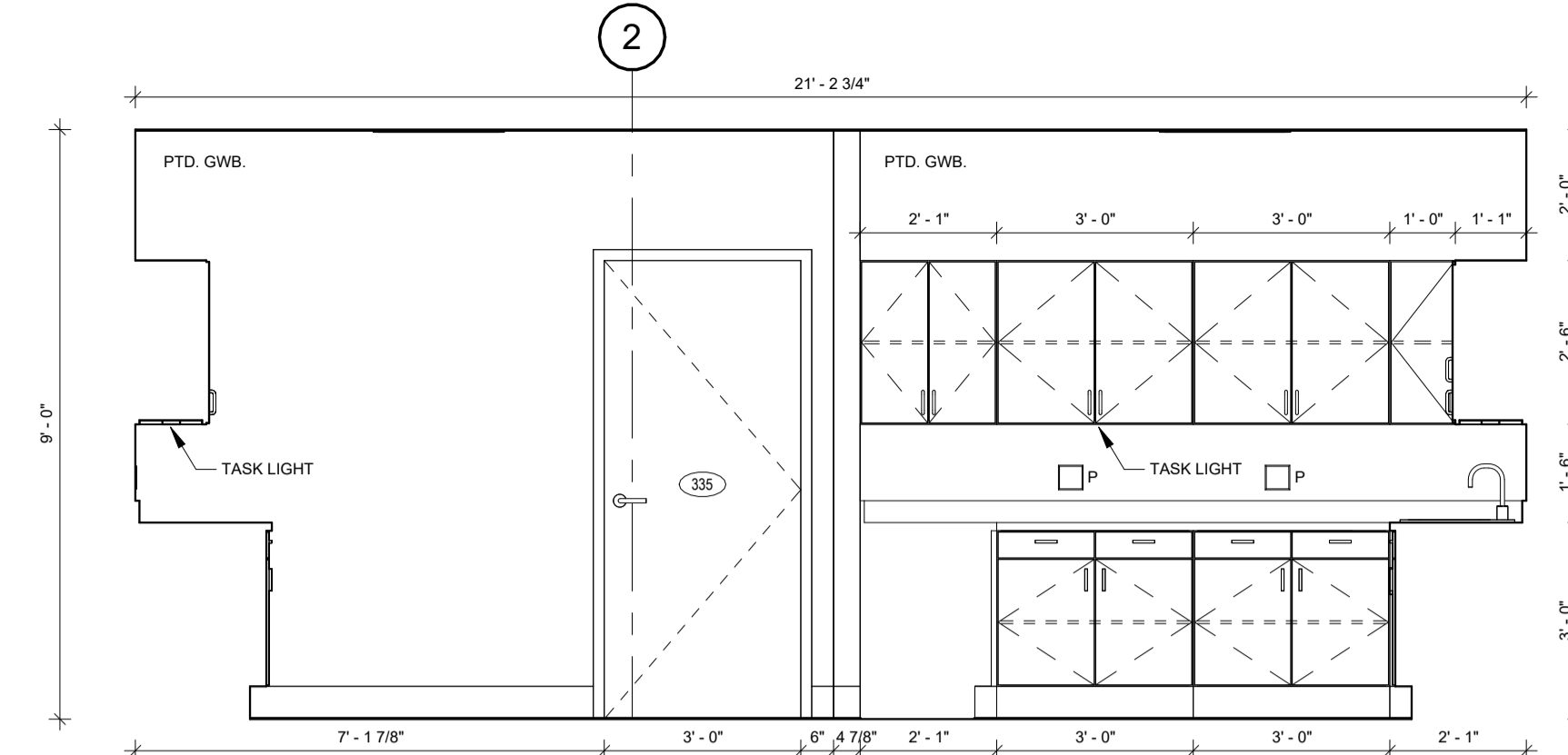
CORRIDOR - 334 (E. WALL)
SCALE: 3/8" = 1'-0"

1
A-704



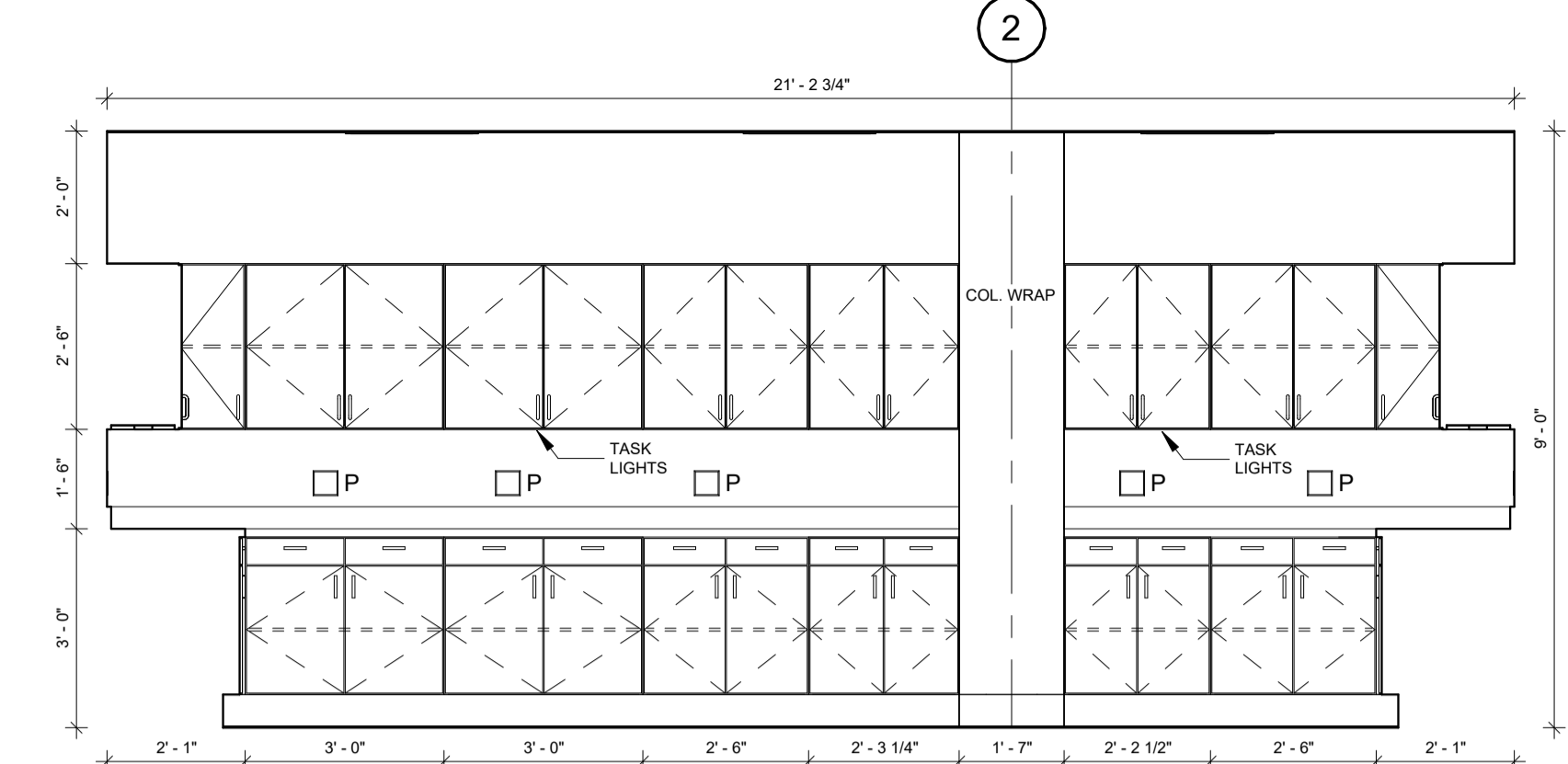
PATIENT BRK. - 331 (N. WALL)
SCALE: 3/8" = 1'-0"

2
A-704



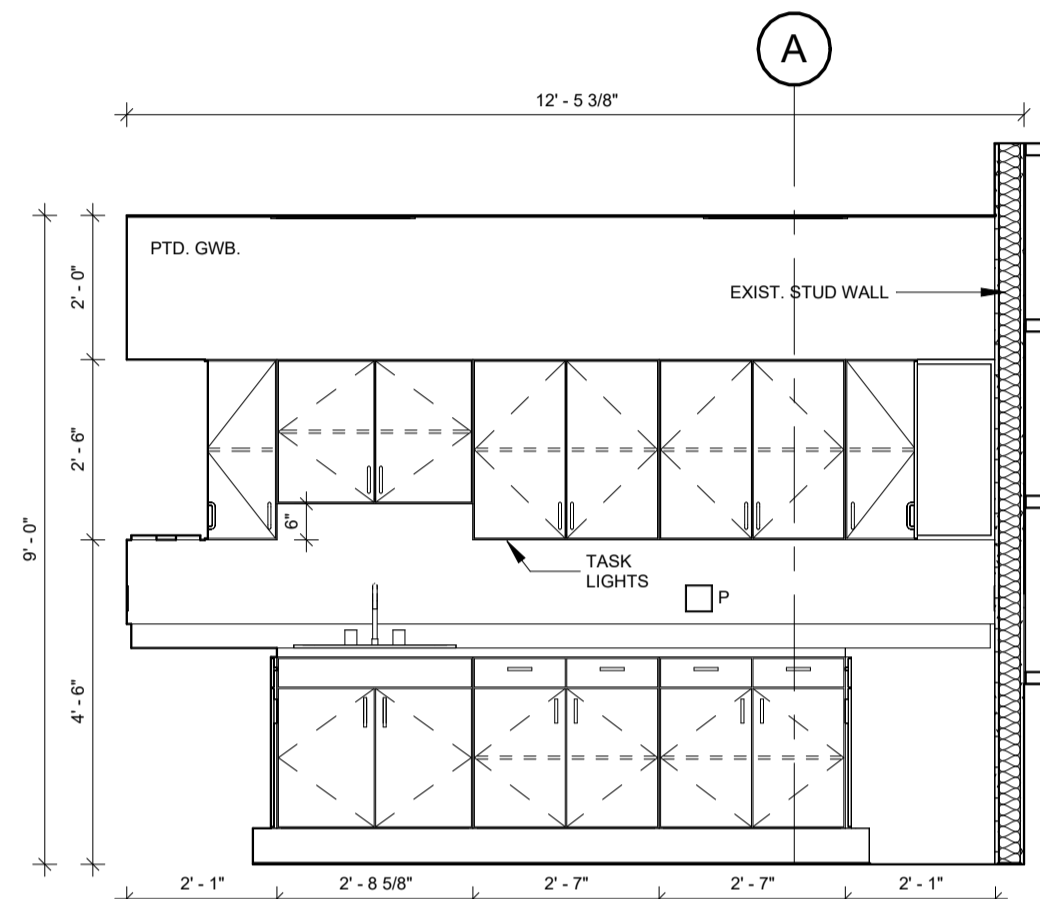
CHARGE/CLEAN - 335 (N. WALL)
SCALE: 3/8" = 1'-0"

3
A-704



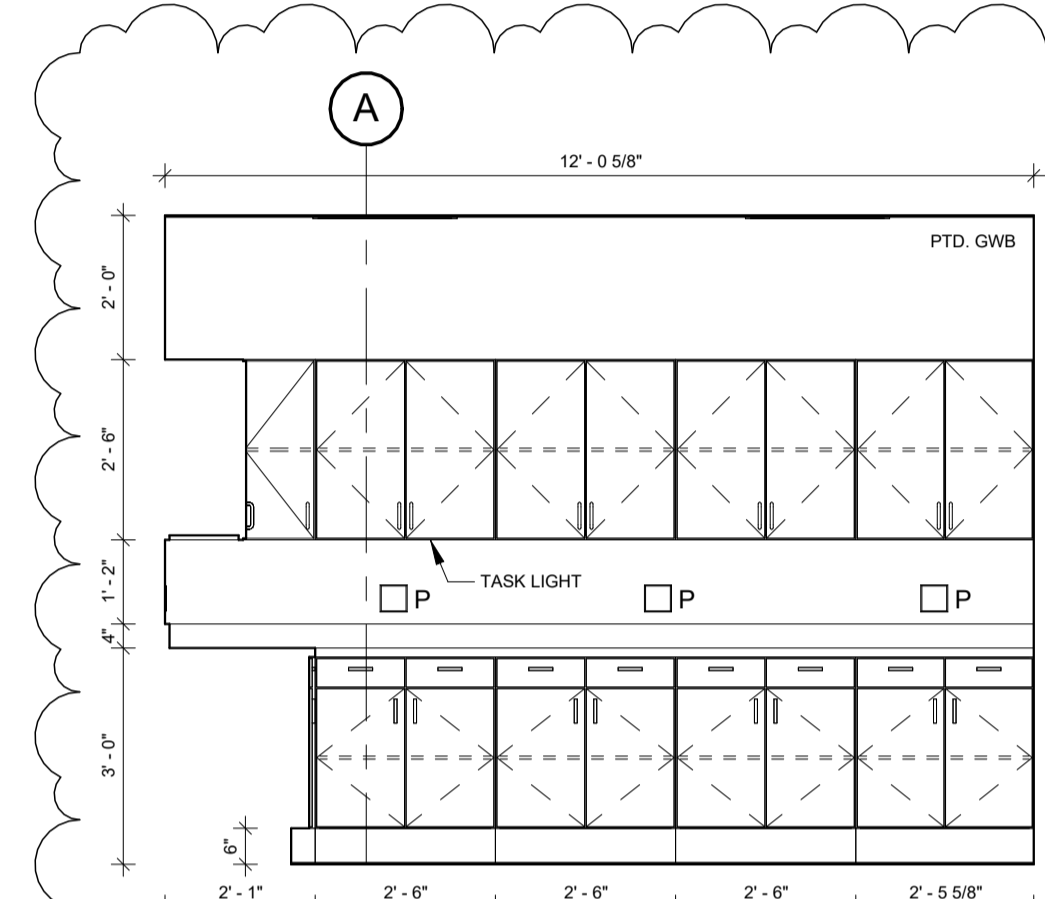
CHARGE/CLEAN - 335 (S. WALL)
SCALE: 3/8" = 1'-0"

4
A-704



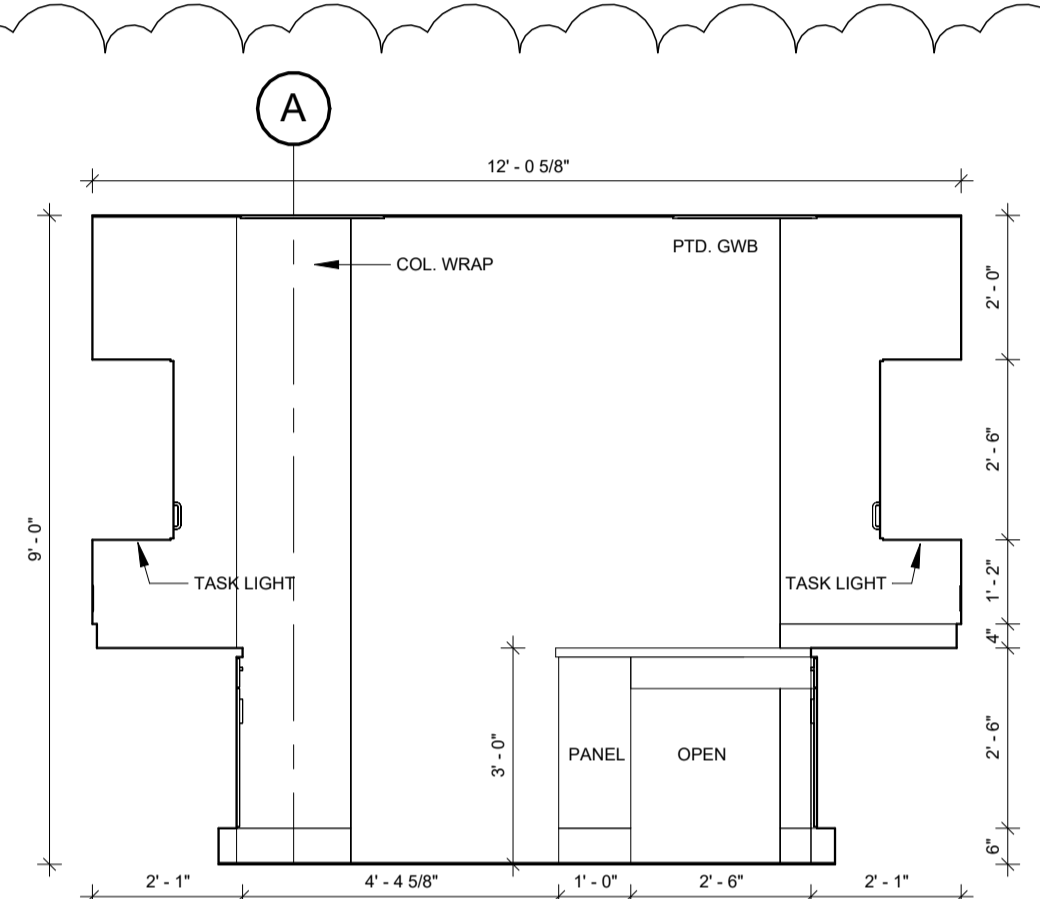
CHARGE/CLEAN - 335 (E. WALL)
SCALE: 3/8" = 1'-0"

5
A-704



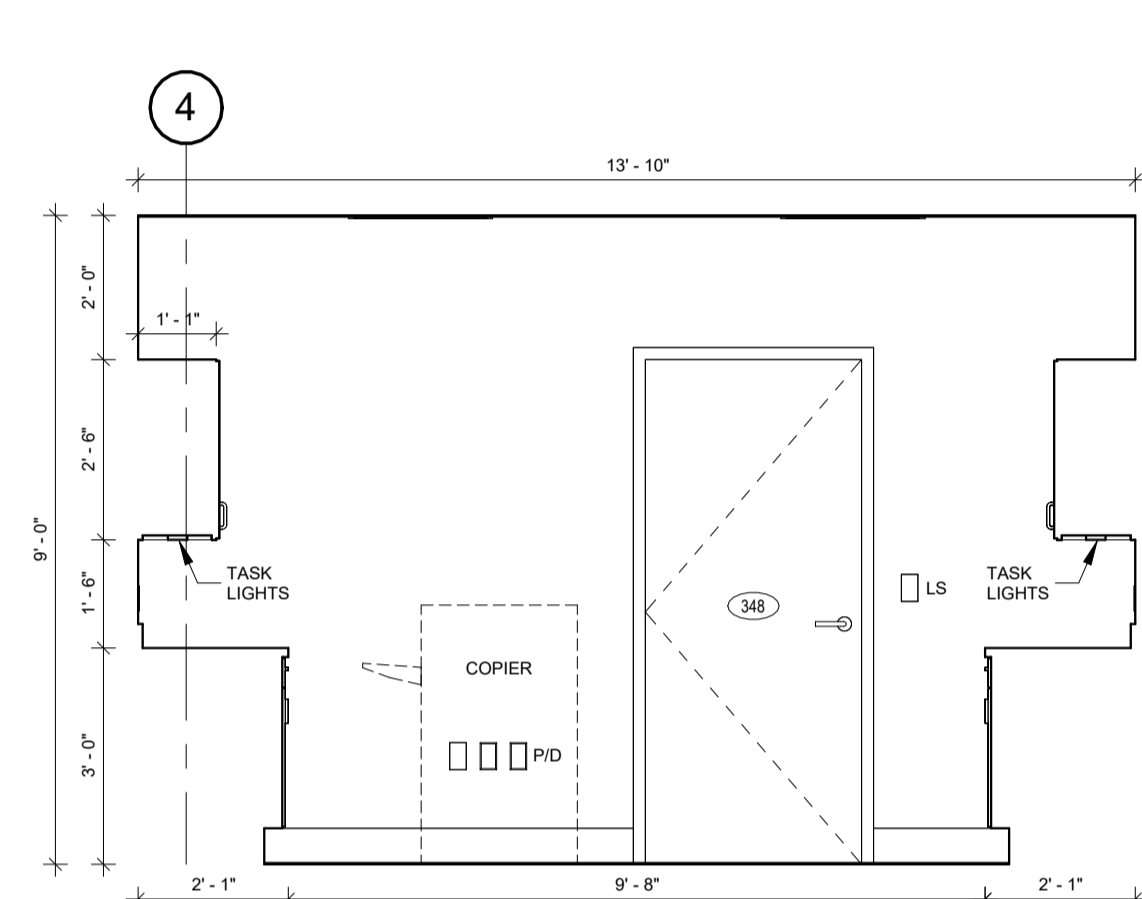
CHARGE/CLEAN - 335 (W. WALL)
SCALE: 3/8" = 1'-0"

6
A-704



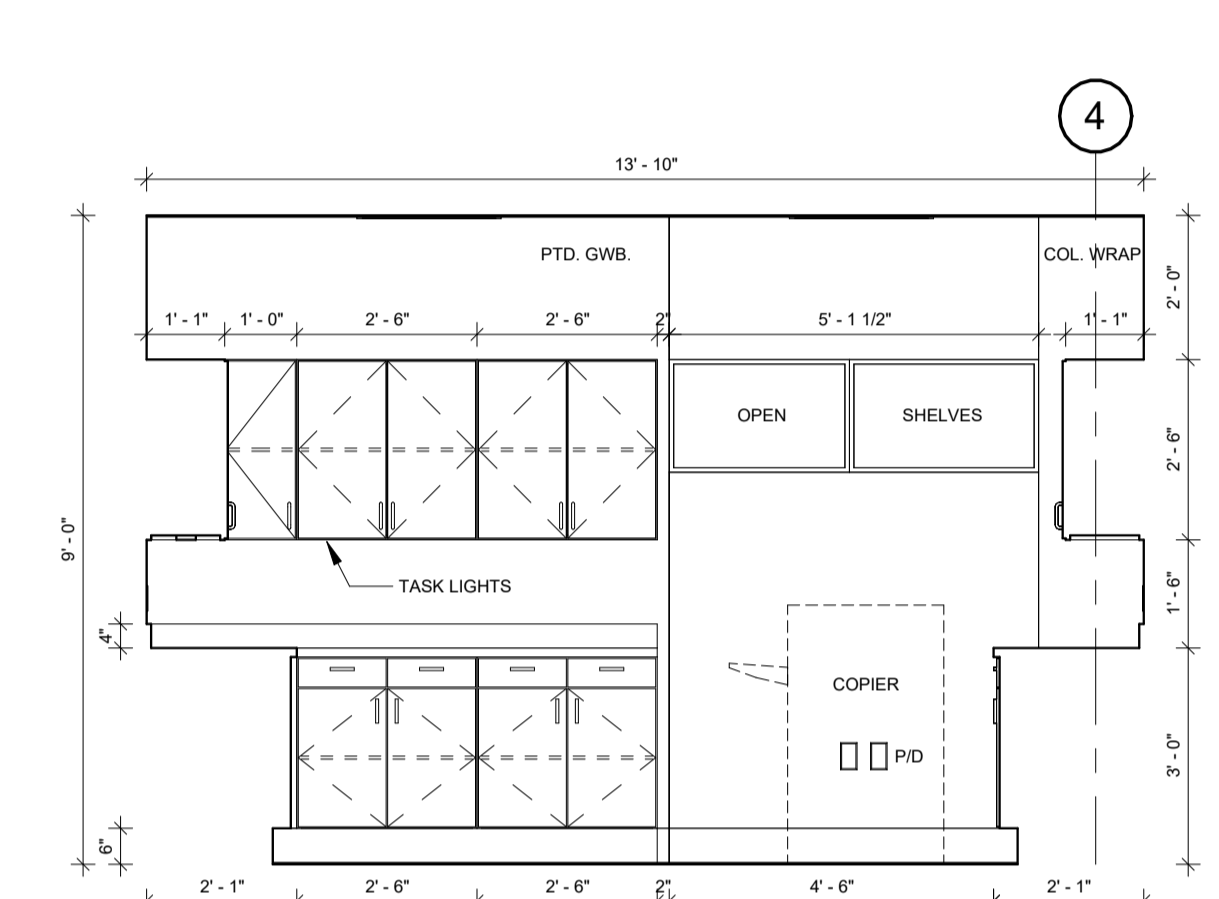
CHARGE/CLEAN - 335 (ISLAND)
SCALE: 3/8" = 1'-0"

7
A-704



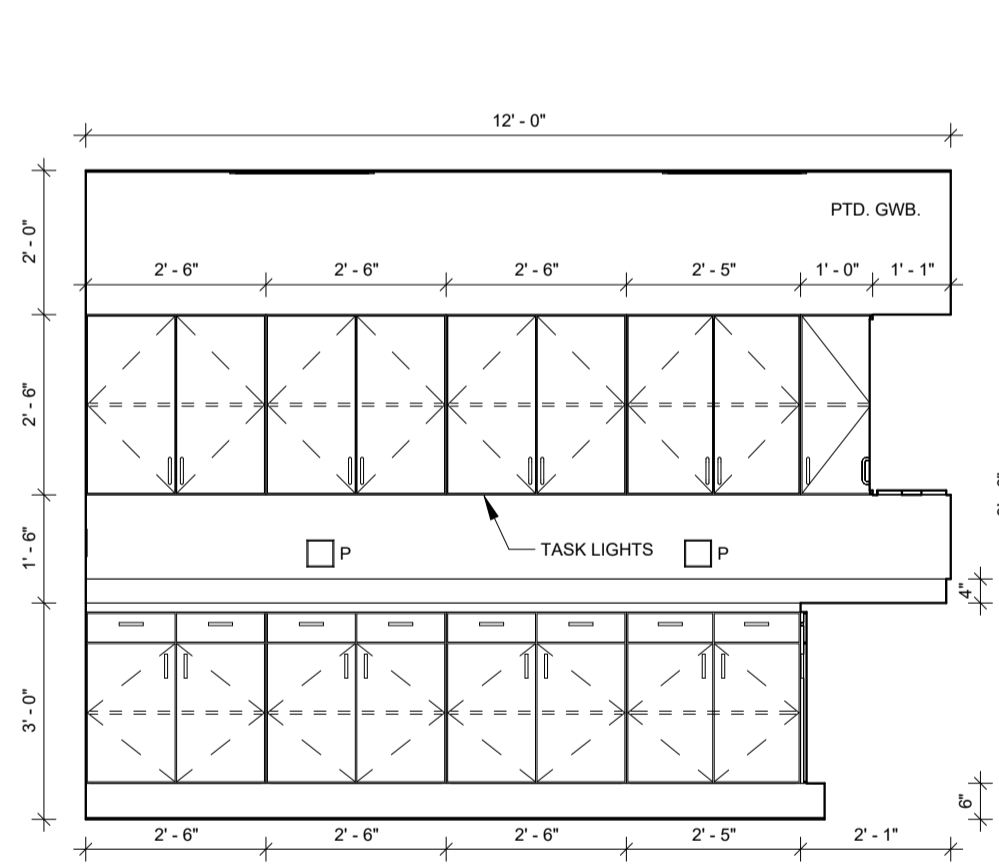
COPY RM. - 348 (N. WALL)
SCALE: 3/8" = 1'-0"

8
A-704



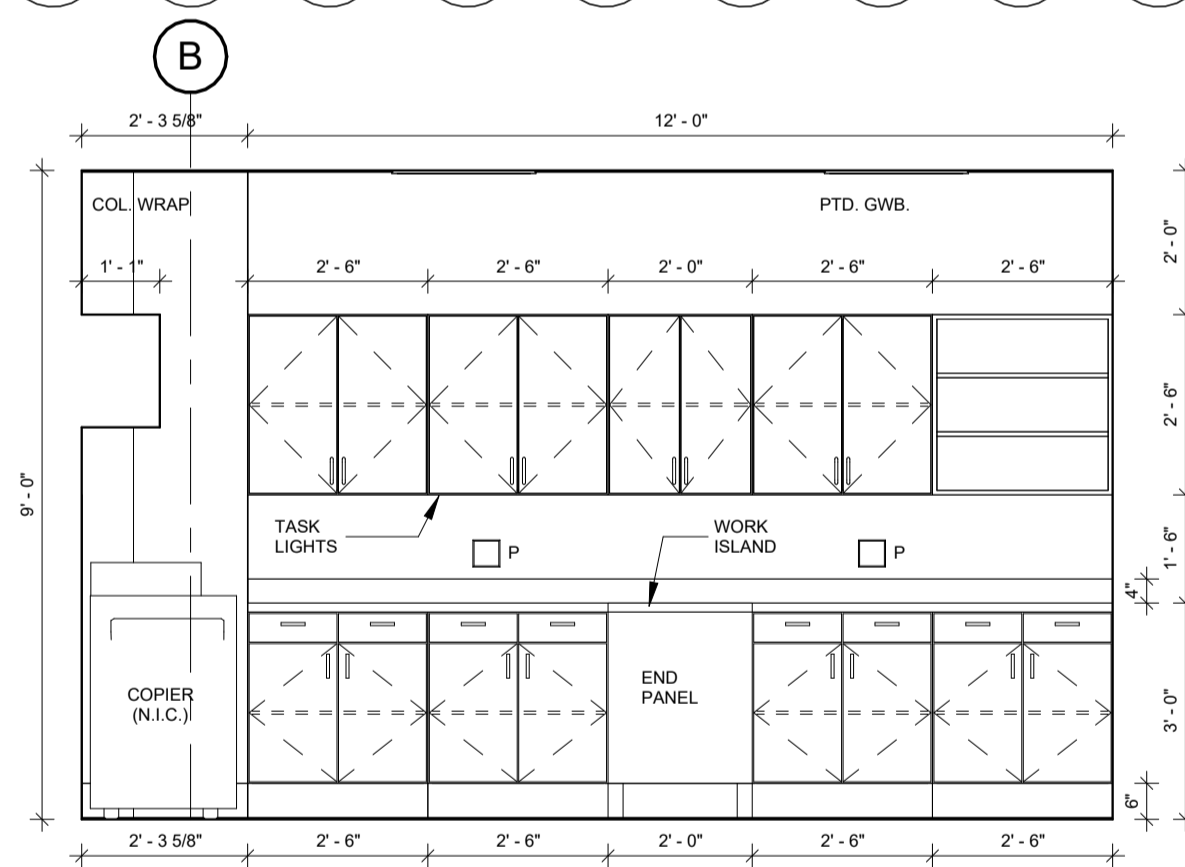
COPY RM. - 348 (S. WALL)
SCALE: 3/8" = 1'-0"

9
A-704



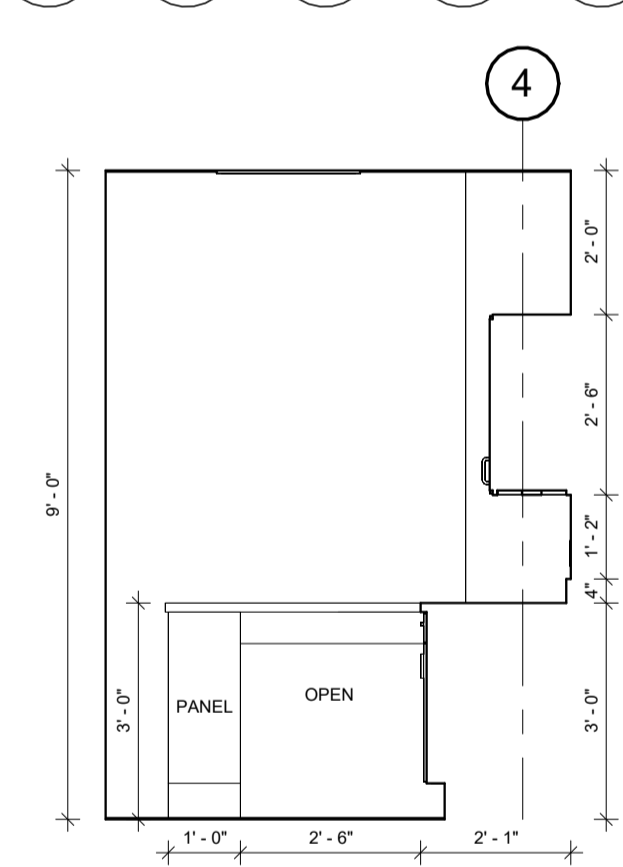
COPY RM. - 348 (E. WALL)
SCALE: 3/8" = 1'-0"

10
A-704



COPY RM. - 348 (W. WALL)
SCALE: 3/8" = 1'-0"

11
A-704



COPY RM. - 348 WORK ISLAND
SCALE: 3/8" = 1'-0"

12
A-704

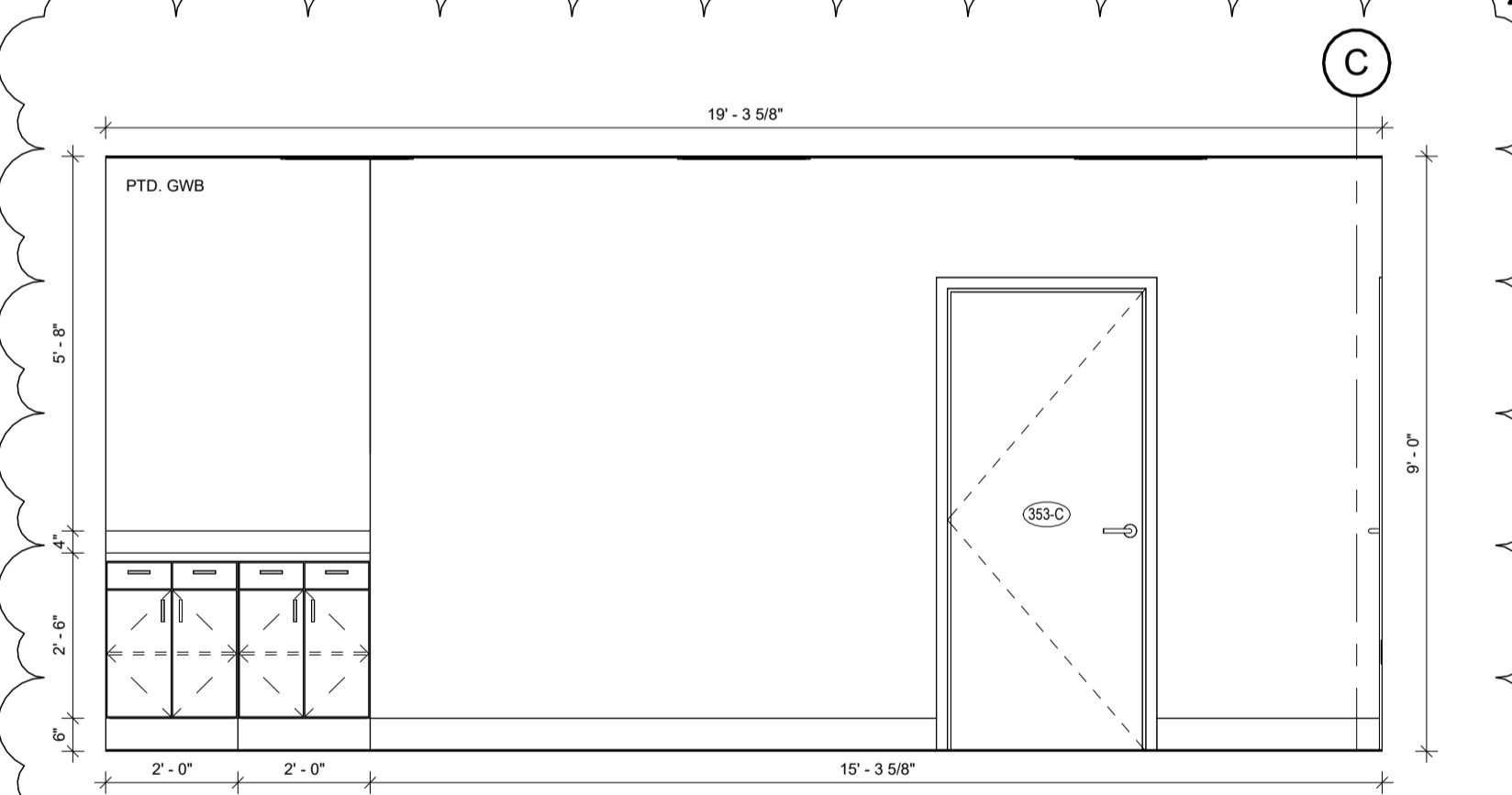


CHART RM. - 352 (E. WALL)
SCALE: 3/8" = 1'-0"

13
A-704

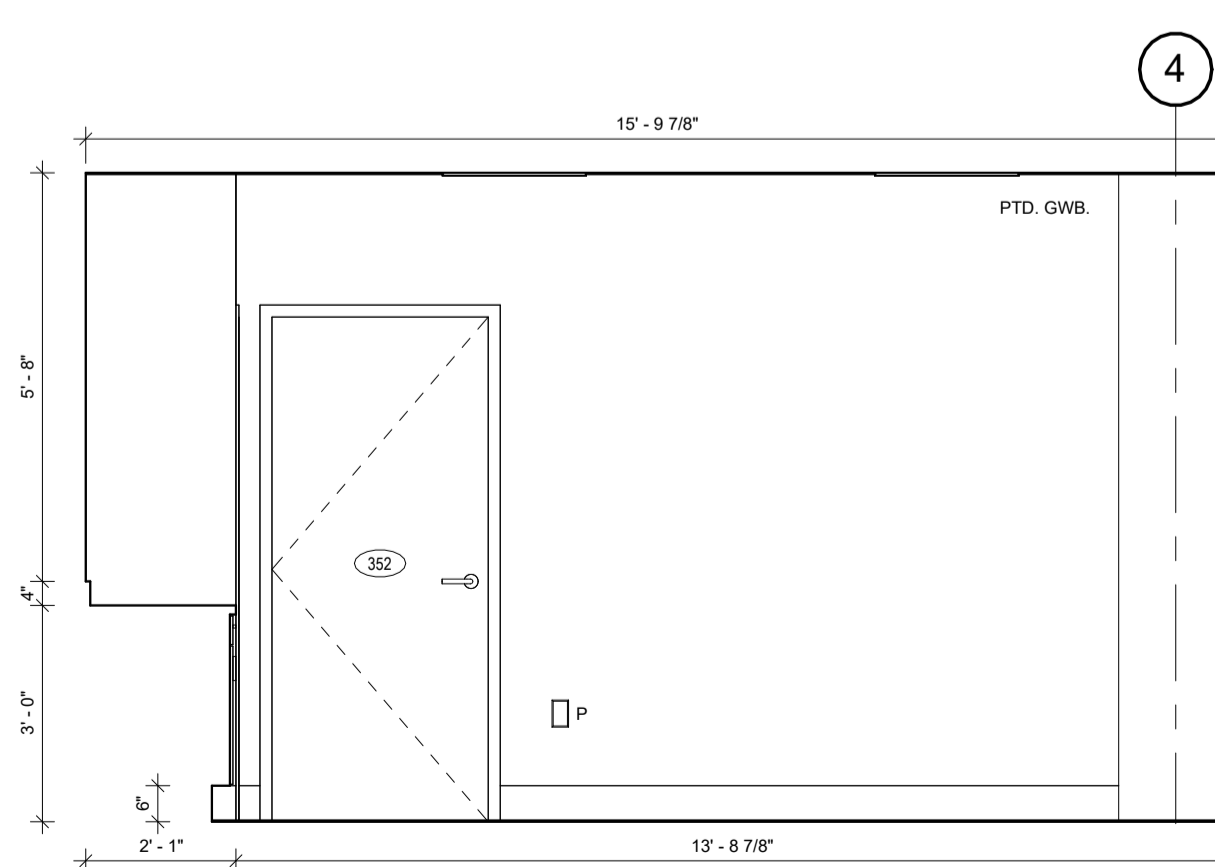
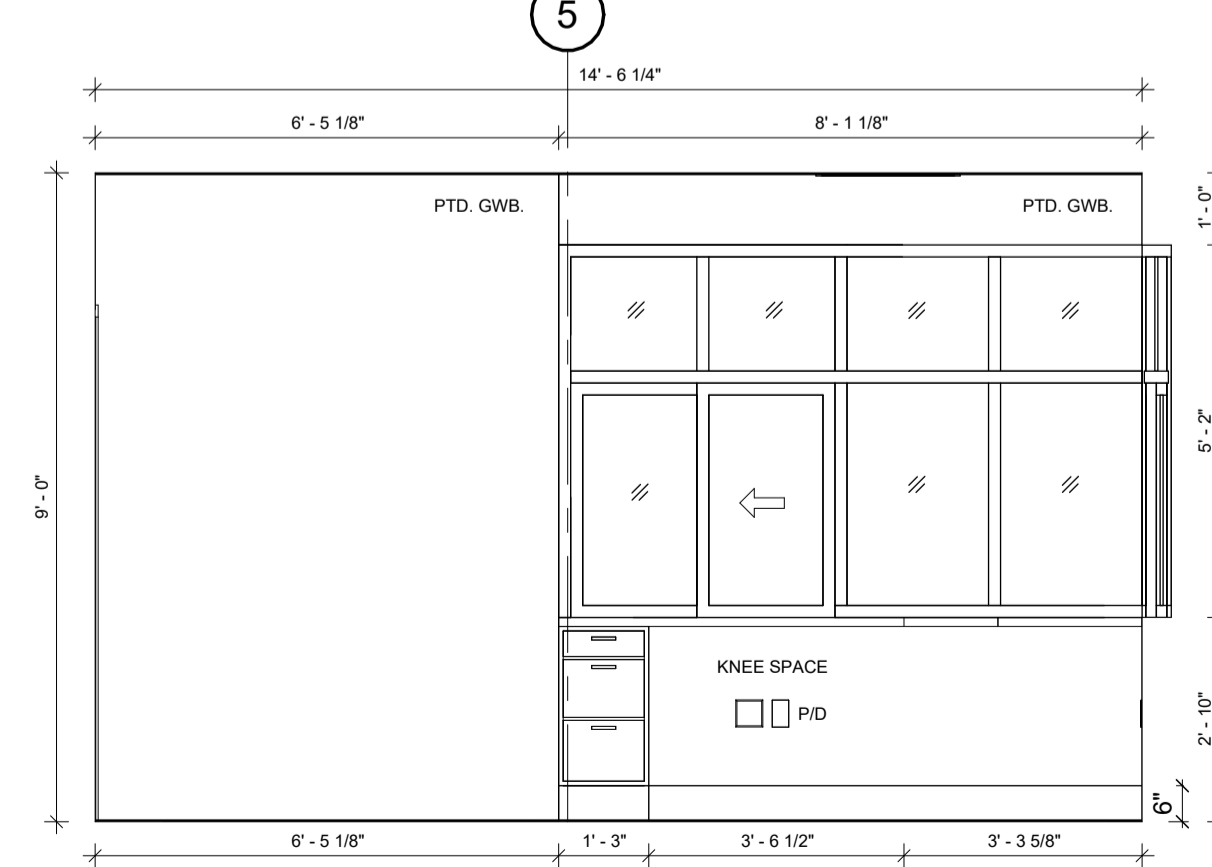


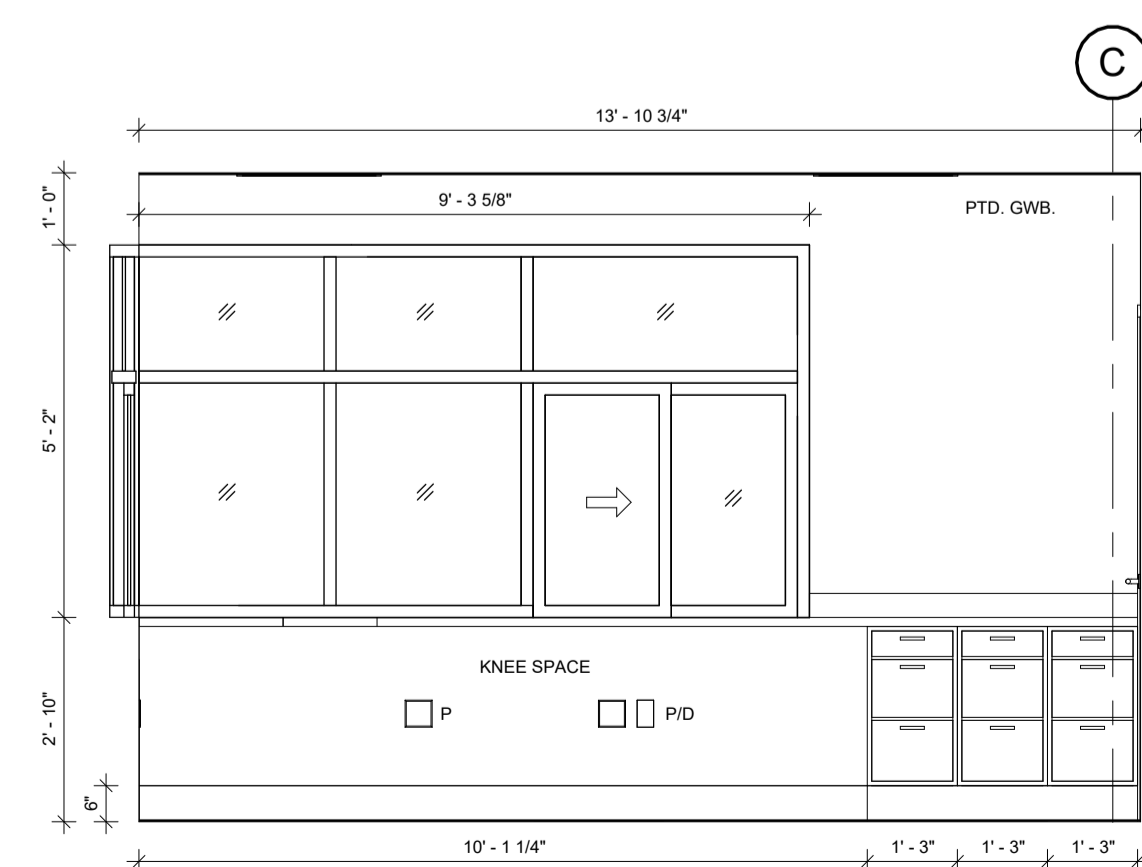
CHART ROOM - 352 (S. WALL)
SCALE: 3/8" = 1'-0"

14
A-704



RECEIPT. - 353 (N. WALL)
SCALE: 3/8" = 1'-0"

15
A-704



RECEIPT. - 353 (E. WALL)
SCALE: 3/8" = 1'-0"

16
A-704

CONSTRUCTION DOCUMENTS

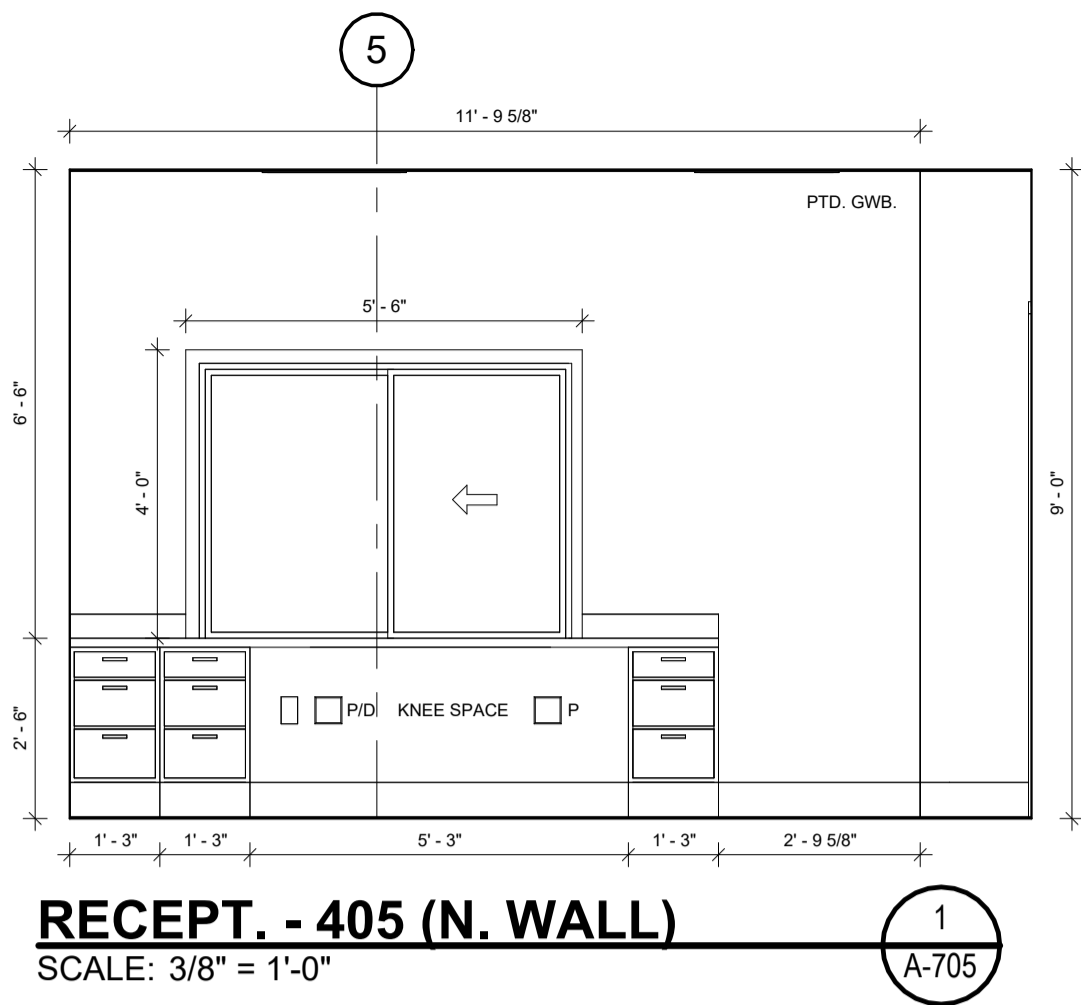


FOILWYATT
Architects & Planners, PLLC
150 NORTH STATE STREET
SUITE 200
JACKSON, MISSISSIPPI 39201
TELEPHONE: (601) 524-4071
FAX: (601) 524-4072
EMAIL: info@foilwyatt.com
www.foilwyatt.com

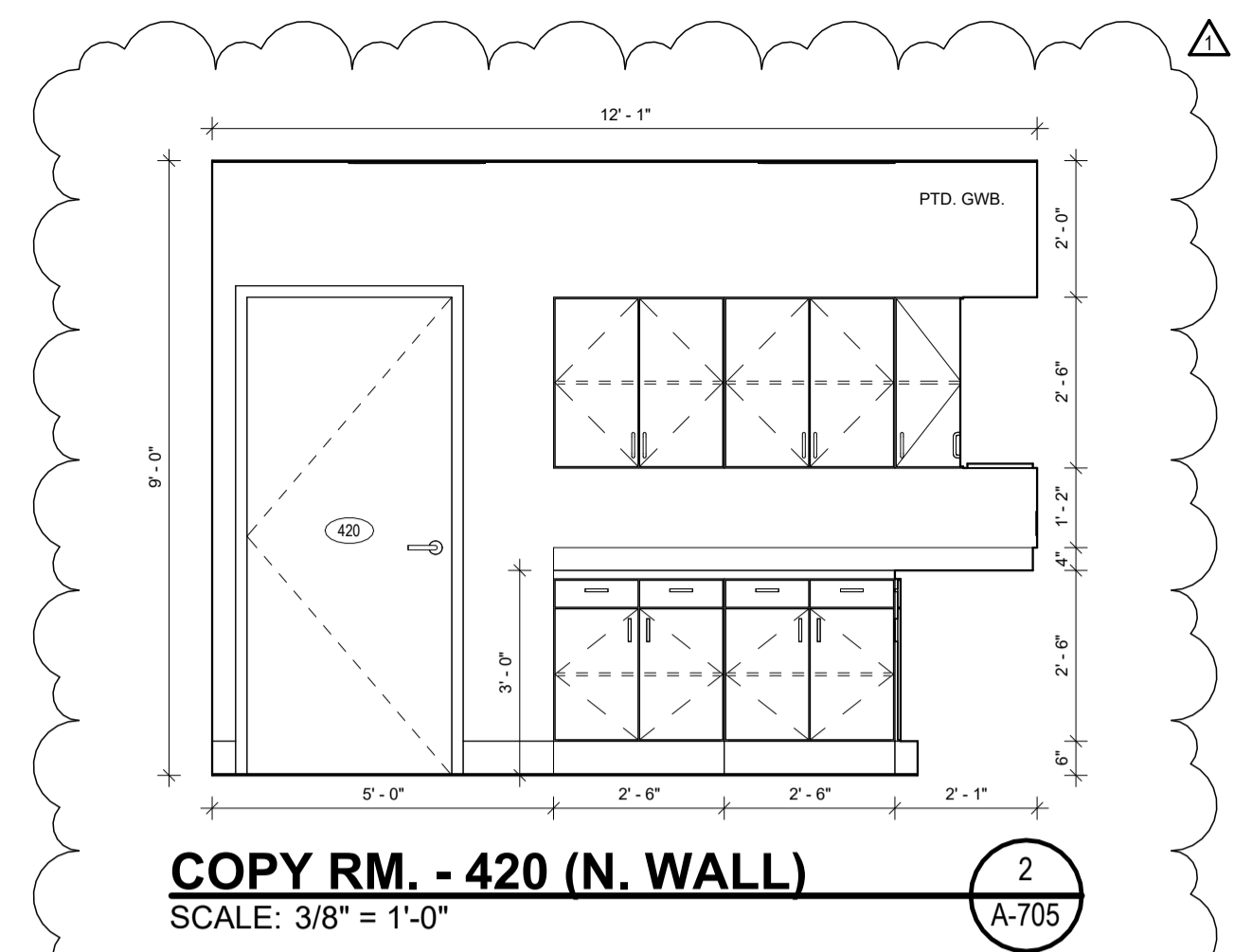
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project no.
1682-24
date
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revised
27 OCTOBER 2025
drawn by
DD/HJ

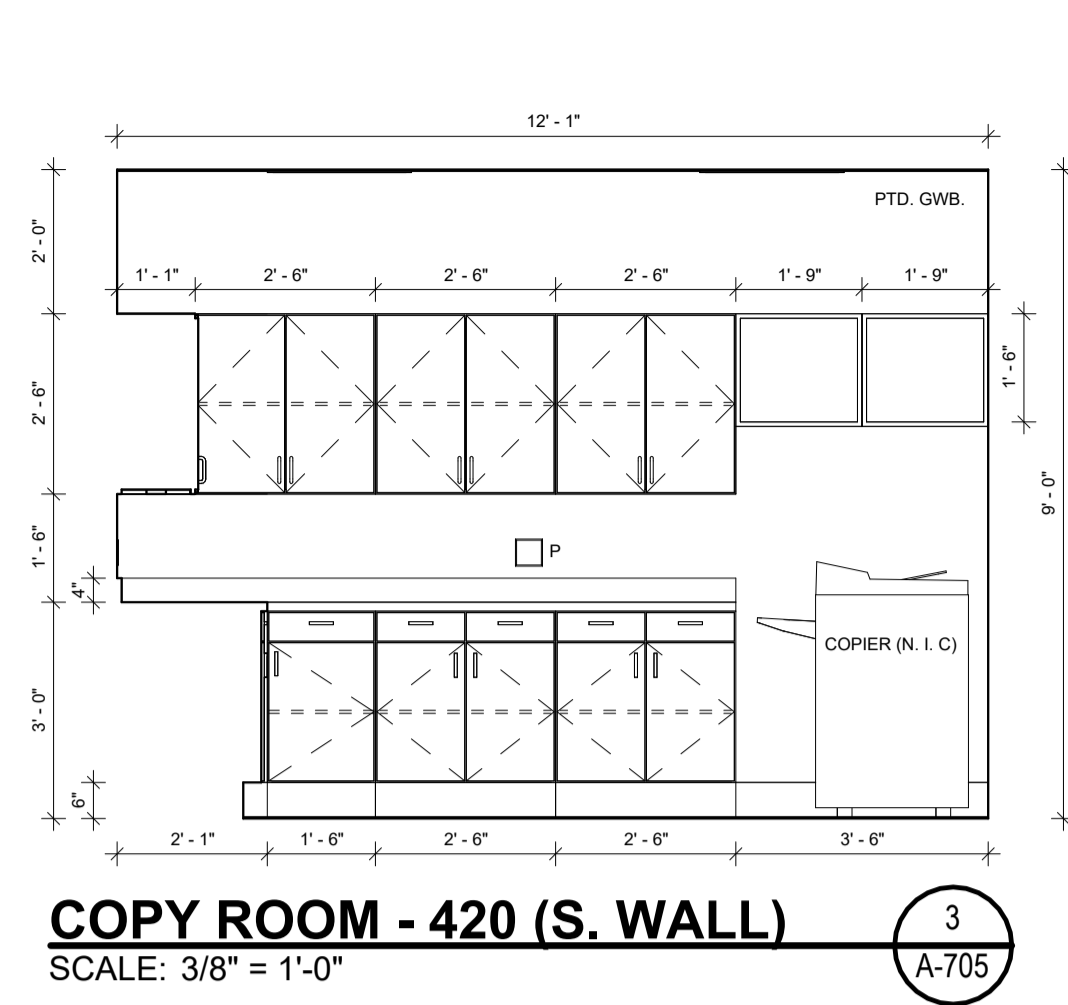
INTERIOR
ELEVATIONS
sheet no.
A-704
of



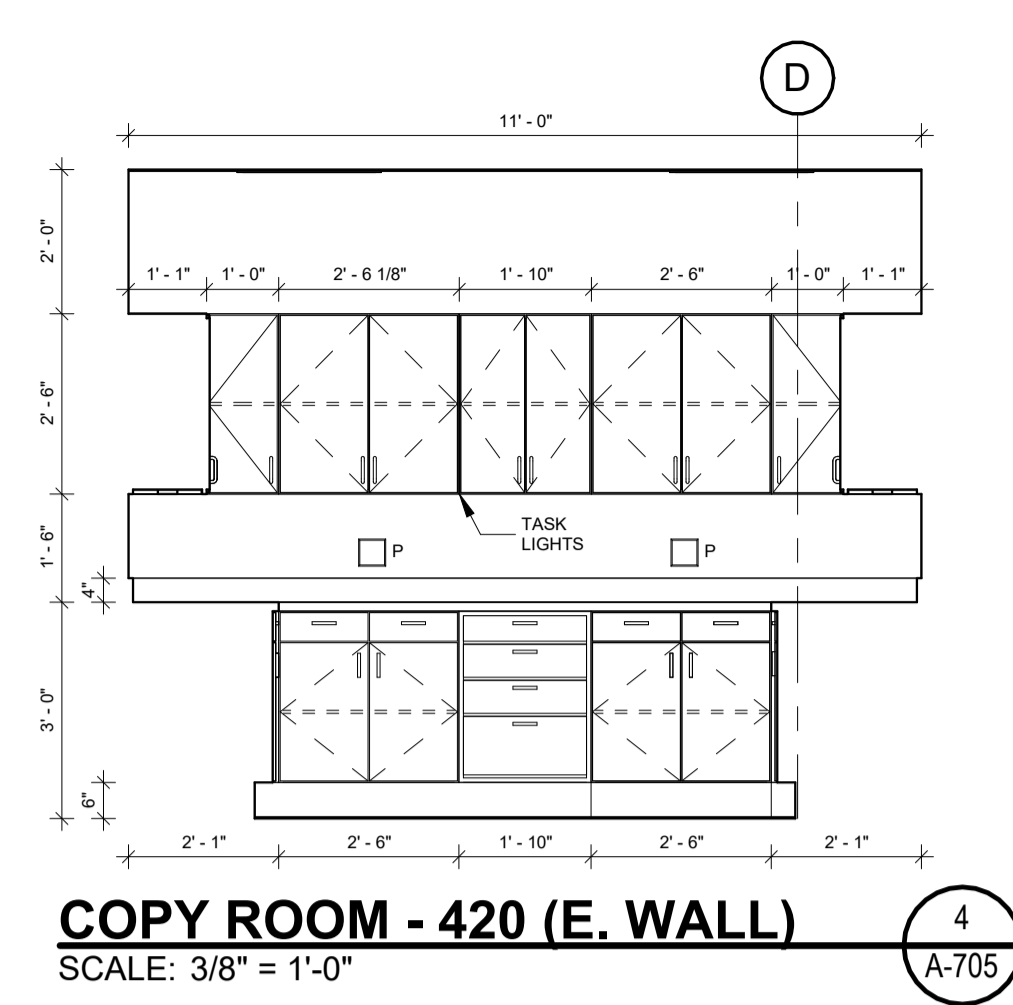
RECEP. - 405 (N. WALL)
SCALE: 3/8" = 1'-0"
1
A-705



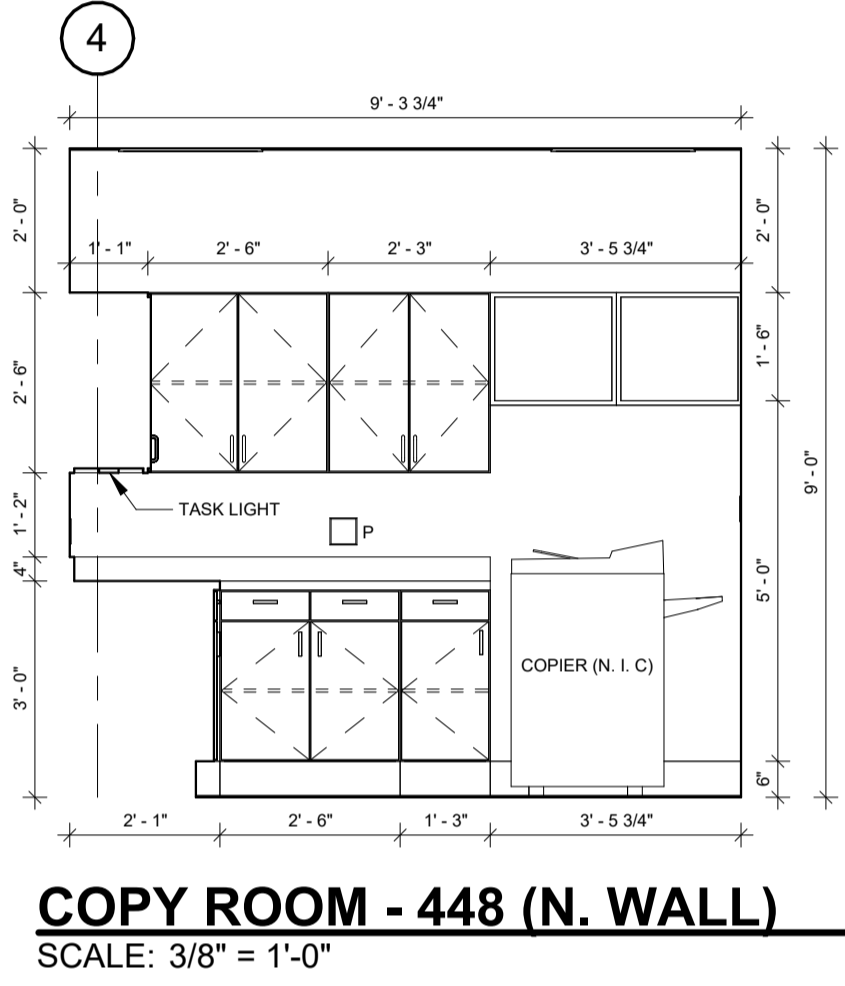
COPY RM. - 420 (N. WALL)
SCALE: 3/8" = 1'-0"
2
A-705



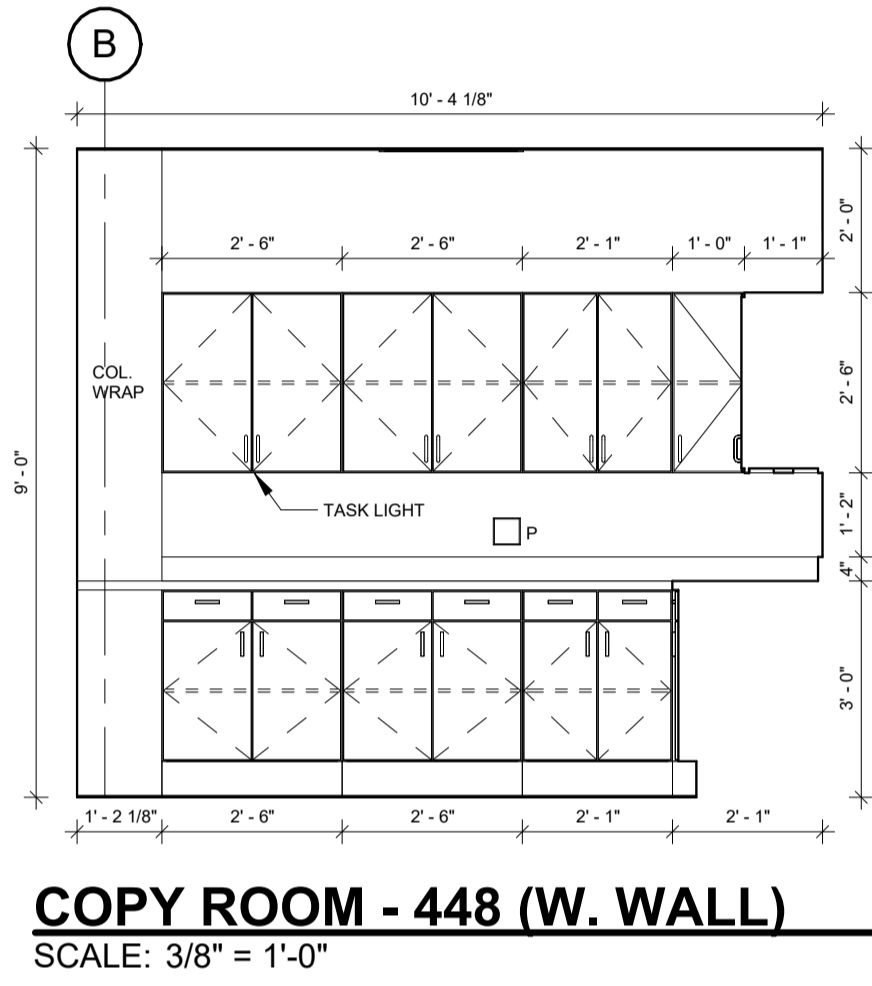
COPY ROOM - 420 (S. WALL)
SCALE: 3/8" = 1'-0"
3
A-705



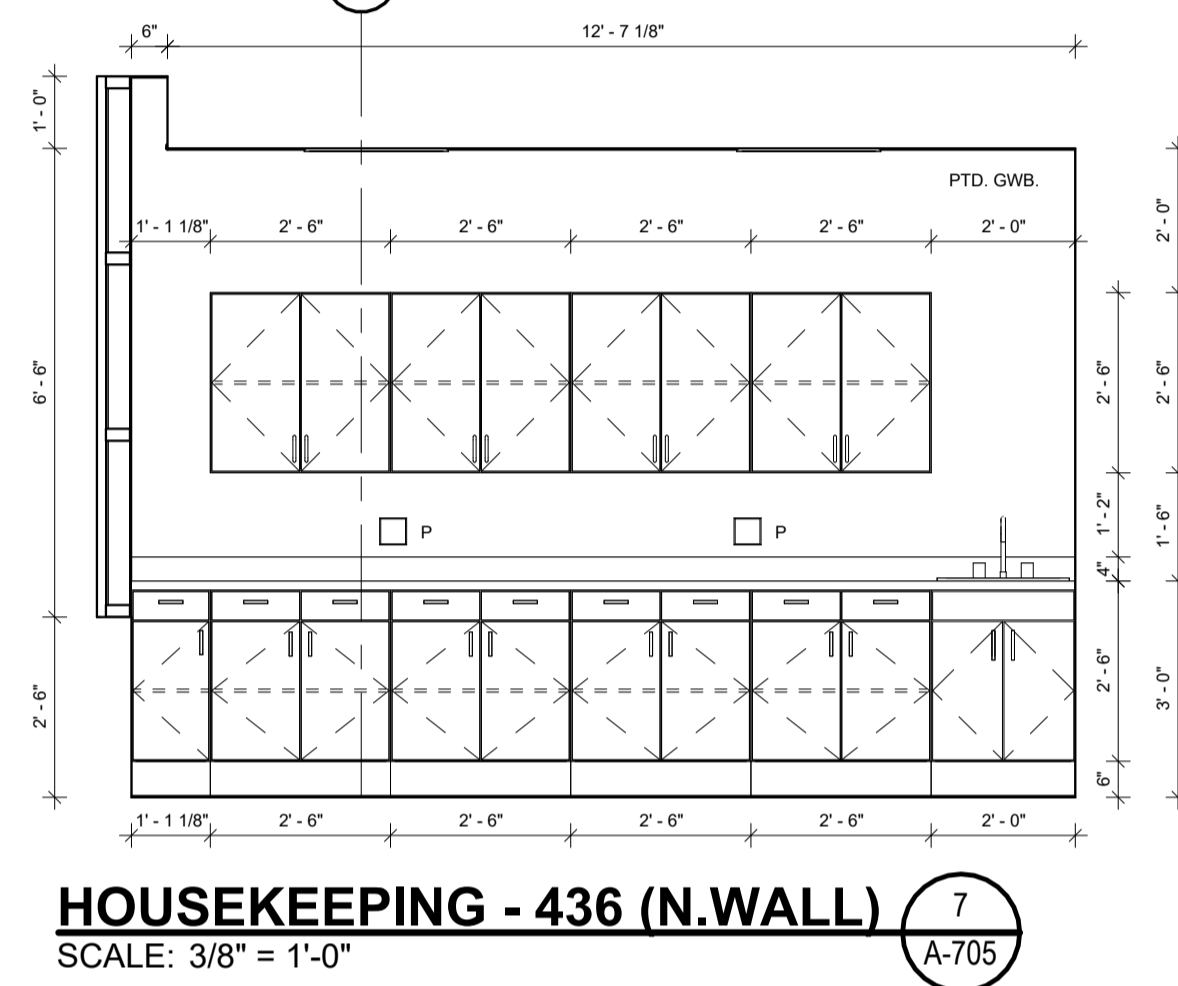
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4
A-705



COPY ROOM - 448 (N. WALL)
SCALE: 3/8" = 1'-0"
5
A-705



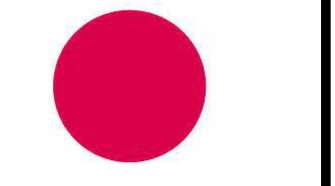
COPY ROOM - 448 (W. WALL)
SCALE: 3/8" = 1'-0"
6
A-705



HOUSEKEEPING - 436 (N.WALL)
SCALE: 3/8" = 1'-0"
7
A-705



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Architects & Planners, PLLC
150 NORTH STATE STREET
SUITE 200
JACKSON, MISSISSIPPI 39201
TELEPHONE: (601) 524-4771
FAX: (601) 524-4772
EMAIL: lvackson@foilwyatt.com
www.foilwyatt.com



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MISSISSIPPI
#209-587

project no.
1682-24
date
17 SEPTEMBER 2025
revised
27 OCTOBER 2025
drawn by
DD/HJ

INTERIOR ELEVATIONS
sheet no.
A-705
of

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY DRIVEWAY, PAVING, ABANDONED UTILITIES, ETC. THAT IS IN THE PATH OR AREA FOR THE NEW WORK SHOWN IN THIS PROJECT. ANY AREAS DISTURBED BY THIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.
- B. THE ROUTING OF NEW UNDERGROUND ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE ARCHITECT AND OTHER DISCIPLINES.
- C. ALL OUTDOOR/UNDERGROUND CONDUITS SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.
- D. ALL OUTDOOR/UNDERGROUND CIRCUITS SHALL BE #10 AWG MINIMUM, UNLESS NOTED OTHERWISE.

- E. THE ROUTING OF UNDERGROUND DUCTS IS SHOWN FOR BIDDING PURPOSES AND THE ACTUAL ROUTING SHALL BE CLOSELY COORDINATED AND VERIFIED BY THE ARCHITECT, OWNER AND OTHER DISCIPLINES. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING EXCAVATION.
- F. ANY DAMAGE TO ANY EXISTING UTILITY SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND OWNER AND IN A TIMELY MANNER RESPONSIVE TO THE SEVERITY OF THE DISRUPTION.
- G. CONTRACTOR SHALL "STAKE OUT" THE OUTDOOR POLE LOCATIONS PER THE PLANS FOR OWNER/ARCHITECT APPROVAL PRIOR TO ROUGH-IN OR DRILLING POLE BASE.
- H. COORDINATE EXACT LOCATIONS OF MANHOLES AND PAD MOUNTED TRANSFORMER WITH THE ARCHITECT.

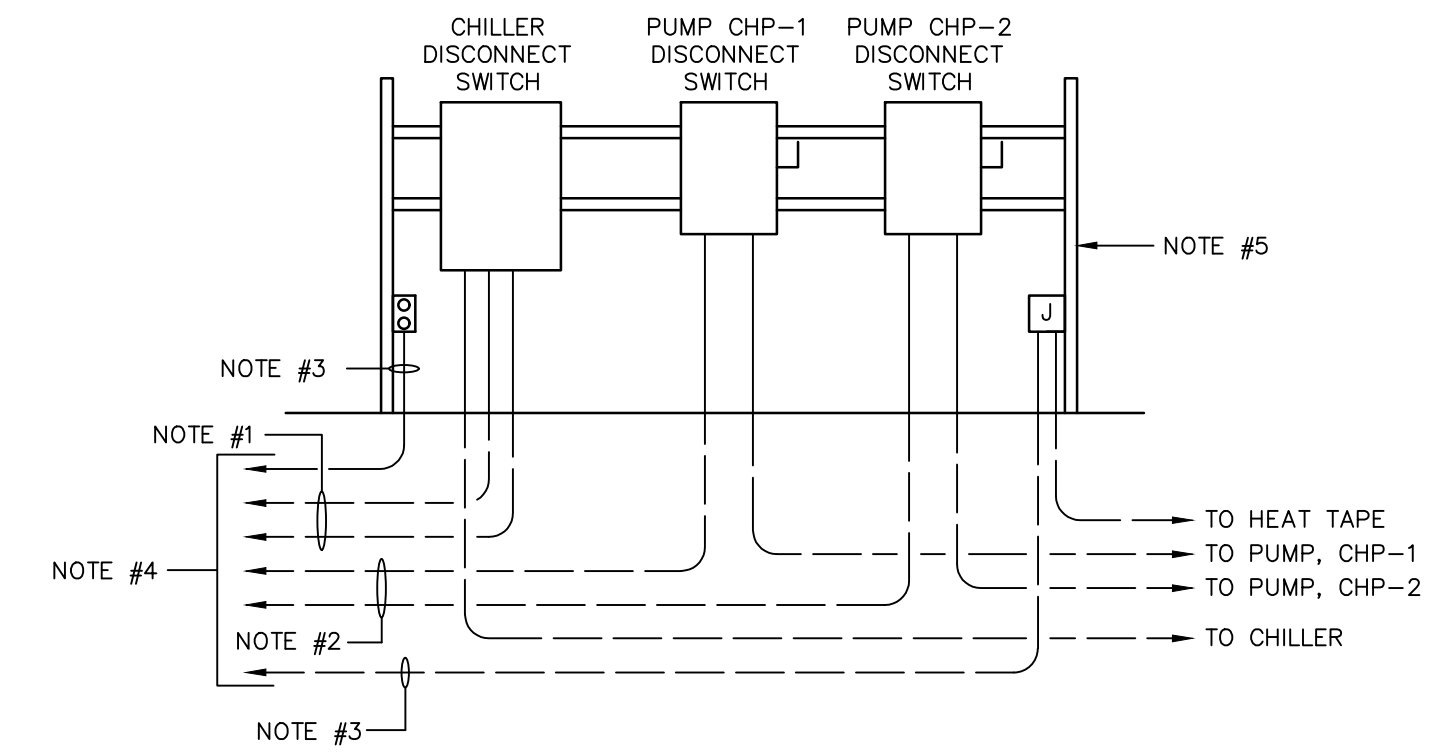
- I. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ANY PHASING REQUIREMENTS TO ROUTE AND INSTALL NEW WORK.
- J. PROVIDE A NYLON PULL ROPE IN ALL EMPTY UNDERGROUND DUCTS IN THIS PROJECT.

PANEL SCHEDULE:

- "A" = PANEL "H1A"
- "B" = PANEL "H2A"
- "C" = PANEL "H3A"
- "D" = PANEL "H4A"
- "E" = PANEL "EHA"
- "H" = PANEL "L1A"
- "J" = PANEL "L2A"
- "K" = PANEL "L3A"
- "L" = PANEL "L4A"
- "M" = PANEL "ELA"
- "N" = PANEL "ELB"
- "P" = PANEL "L2B"
- "R" = PANEL "L3B"
- "S" = PANEL "L4B"
- "T" = PANEL "ELC"

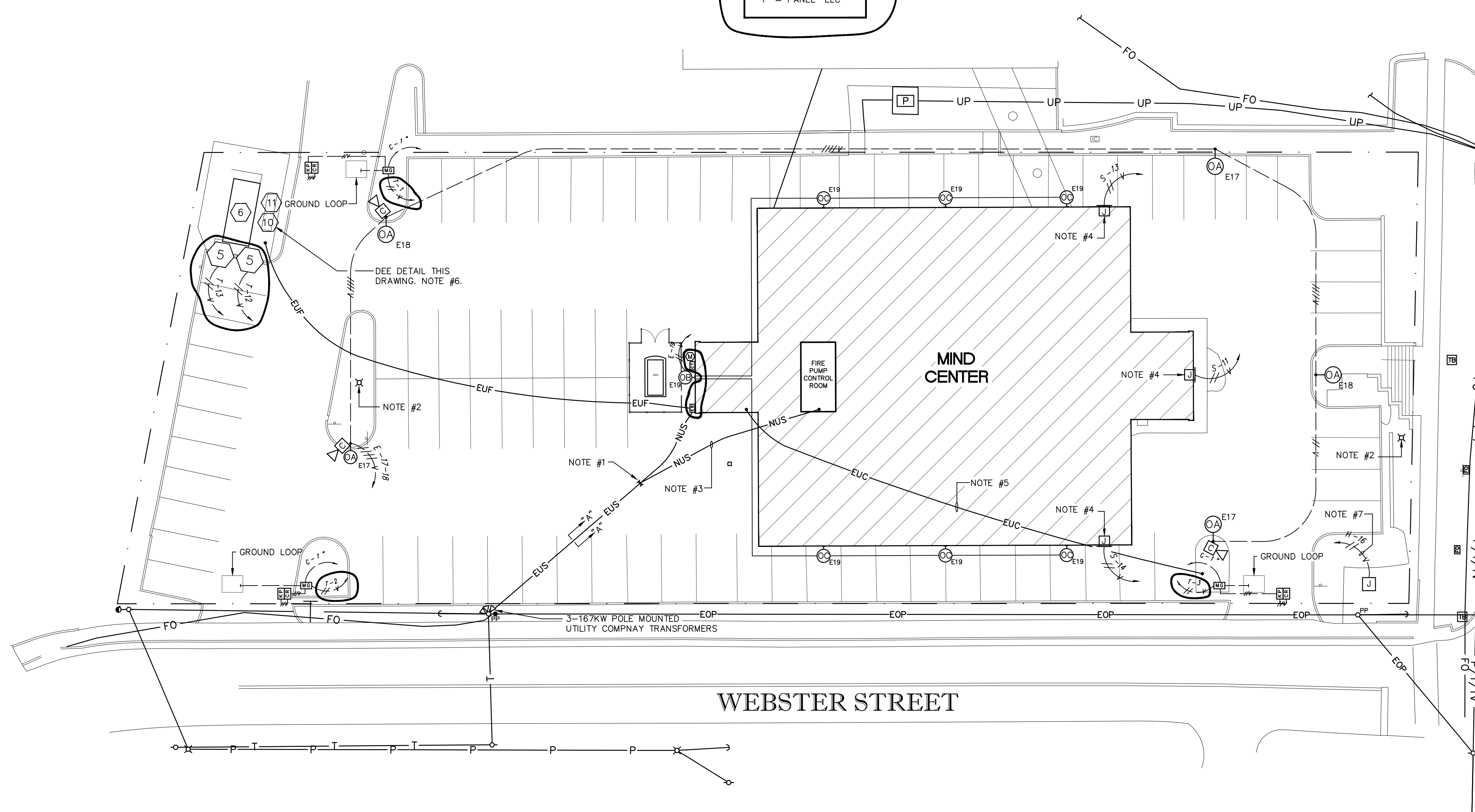
NOTES: (DETAIL - ELECTRICAL EQUIPMENT AT CHILLER)

- 1. EXISTING TWO (2) - 2 1/2" CONDUITS, (ONE ACTIVE, ONE SPARE), FOR EXISTING CHILLER, DISCONNECT AND REMOVE CABLING AND DISCONNECT SWITCH. INSTALL NEW CABLING AND NEW DISCONNECT CONDUIT IN EXISTING CONDUIT PER THE PLANS. CAP AND SEAL SPARE CONDUIT.
- 2. EXISTING 3/4" CONDUIT FOR PUMPS, DISCONNECT AND REMOVE CABLING AND EXISTING EQUIPMENT. INSTALL NEW DISCONNECT SWITCH AND CABLING IN EXISTING CONDUIT PER THE PLANS.
- 3. INSTALL NEW CABLING IN EXISTING 3/4" CONDUIT PER THE PLANS. CAP AND SEAL ALL SPARE CONDUITS.
- 4. RE-WORK EXISTING CONDUITS AT BUILDING TO NEW PANEL PER THE PLANS. REMOVE EXISTING EQUIPMENT STRUCTURE.
- 5. PROVIDE NEW TUBULAR, INDEPENDENT, PAINTED STRUCTURE TO INSTALL NEW ELECTRICAL EQUIPMENT. COORDINATE SIZE AND LOCATION WITH ARCHITECT.



DETAIL - ELECTRICAL EQUIPMENT AT CHILLER

NO SCALE

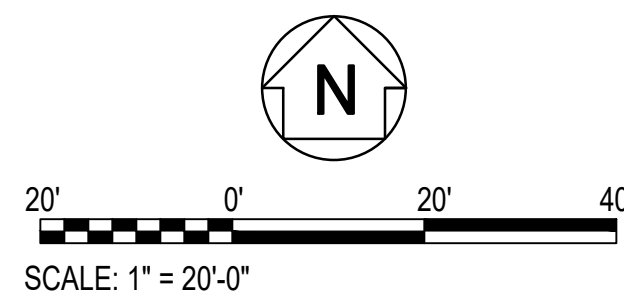


NOTES: (SITE PLAN)

- 1. CONTRACTOR SHALL INTERCEPT CONCRETE DUCT BANK EXISTING SECONDARY SERVICE CONDUITS AND RE-ROUTE THRU CT CAN AND SERVICE DISCONNECT ON OUTSIDE OF BUILDING. IT SHALL BE ACCEPTABLE TO RE-USE EXISTING CONDUCTORS FROM THE TRANSFORMER TO THE NEW DISCONNECT.
- 2. EXISTING LIGHT POLE TO BE REMOVED.
- 3. PROVIDE NEW 480 VOLT, 3 PHASE, SECONDARY SERVICE CONNECTION AND UNDERGROUND SECONDARY SERVICE CONDUIT PER THE POWER RISER DIAGRAM FOR THE FIRE PUMP.
- 4. CONNECTION TO BUILDING SIGN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 5. UNDERGROUND FIBER OPTIC SERVICE CONDUIT AND CABLE TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- 6. EXISTING STRUCTURE, DISCONNECTS, CONTACTORS, CONDUITS, ETC., TO BE DISCONNECTED, REMOVED, AND REPLACE PER THE NEW WORK.
- 7. LOCATION OF UNDERGROUND POWER CONNECTION TO UMMC LIGHTED MONUMENT SIGN.

SITE PLAN

SCALE: 1" = 20'-0"



FoillWYATT
Architects & Planners, P.L.L.C.
1515 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TEL: 601-982-5313
FAX: 601-982-7665
WWW.FOILLWYATT.COM

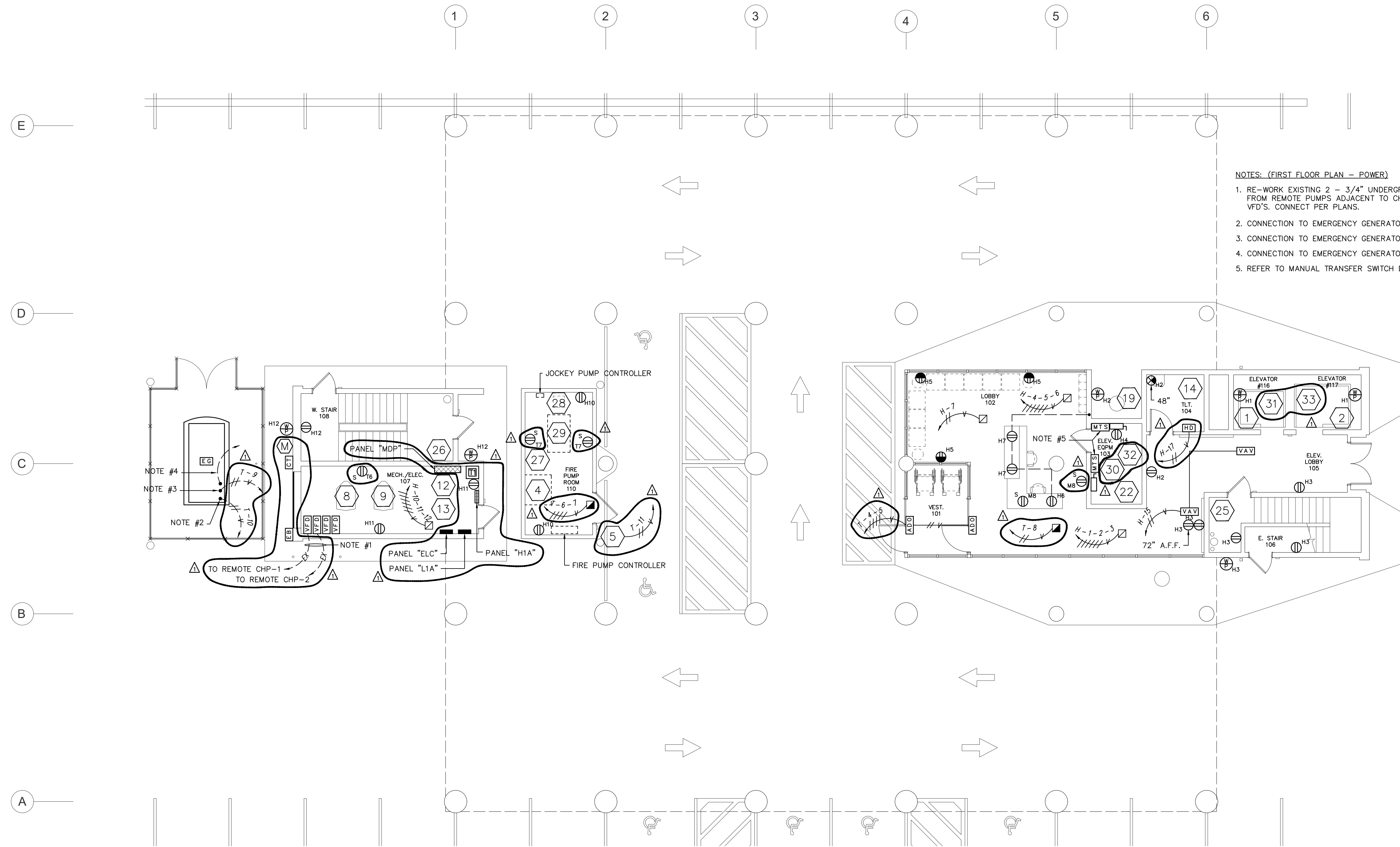
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UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
MISSISSIPPI
JACKSON

project no. 1682-24
date 17 SEPTEMBER 2025
revised
▲ - 27 OCTOBER 2025

drawn by: J.G.H.

Schultz & Wynne
Consulting Electrical Engineers
A PROFESSIONAL ASSOCIATION
4525 Office Park Drive, Jackson, MS 39206 Post
Office Box 16074, Jackson, MS 39216
TEL: 601-982-5313 FAX: 601-982-7665
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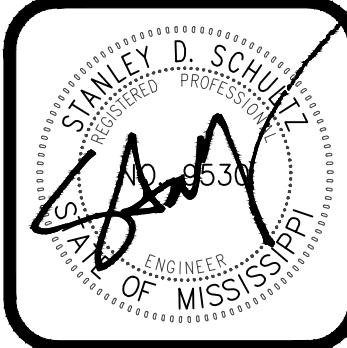
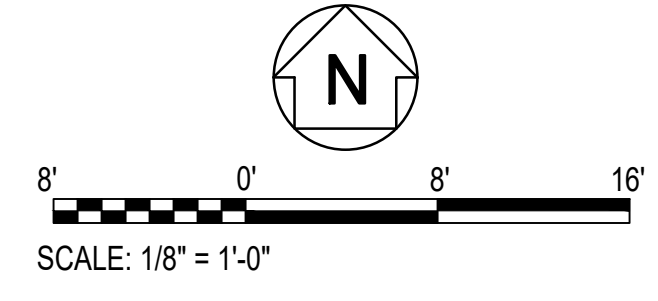


PANEL SCHEDULE:	
"A"	= PANEL "H1A"
"B"	= PANEL "H2A"
"C"	= PANEL "H3A"
"D"	= PANEL "H4A"
"E"	= PANEL "EHA"
"H"	= PANEL "L1A"
"J"	= PANEL "L2A"
"K"	= PANEL "L3A"
"L"	= PANEL "L4A"
"M"	= PANEL "ELA"
"N"	= PANEL "ELB"
"P"	= PANEL "L2B"
"R"	= PANEL "L3B"
"S"	= PANEL "L4B"
"T"	= PANEL "ELC"

- NOTES: (FIRST FLOOR PLAN - POWER)
1. RE-WORK EXISTING 2 - 3/4" UNDERGROUND CONDUITS FROM REMOTE PUMPS ADJACENT TO CHILLER THRU VFD'S. CONNECT PER PLANS.
 2. CONNECTION TO EMERGENCY GENERATOR BATTERY CHARGER.
 3. CONNECTION TO EMERGENCY GENERATOR BLOCK HEATER.
 4. CONNECTION TO EMERGENCY GENERATOR REMOTE ANNUNCIATOR.
 5. REFER TO MANUAL TRANSFER SWITCH DETAIL ON DRAWING E600.

POWER
FIRST FLOOR PLAN

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



FoUWYATT
 Architects & Planners, PLLC
 SUITE 200
 1515 NORTH STATE STREET
 JACKSON, MISSISSIPPI 39201
 TEL: 601.552.3071
 FAX: 601.552.3071
 EMAIL: info@fo Wyatt.com
 WWW: www.fo Wyatt.com

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 UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
 JACKSON, MISSISSIPPI

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 J.G.H.

Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39216 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7685
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 FAX: 601.552.3071
 WWW.FOUWYATT.COM

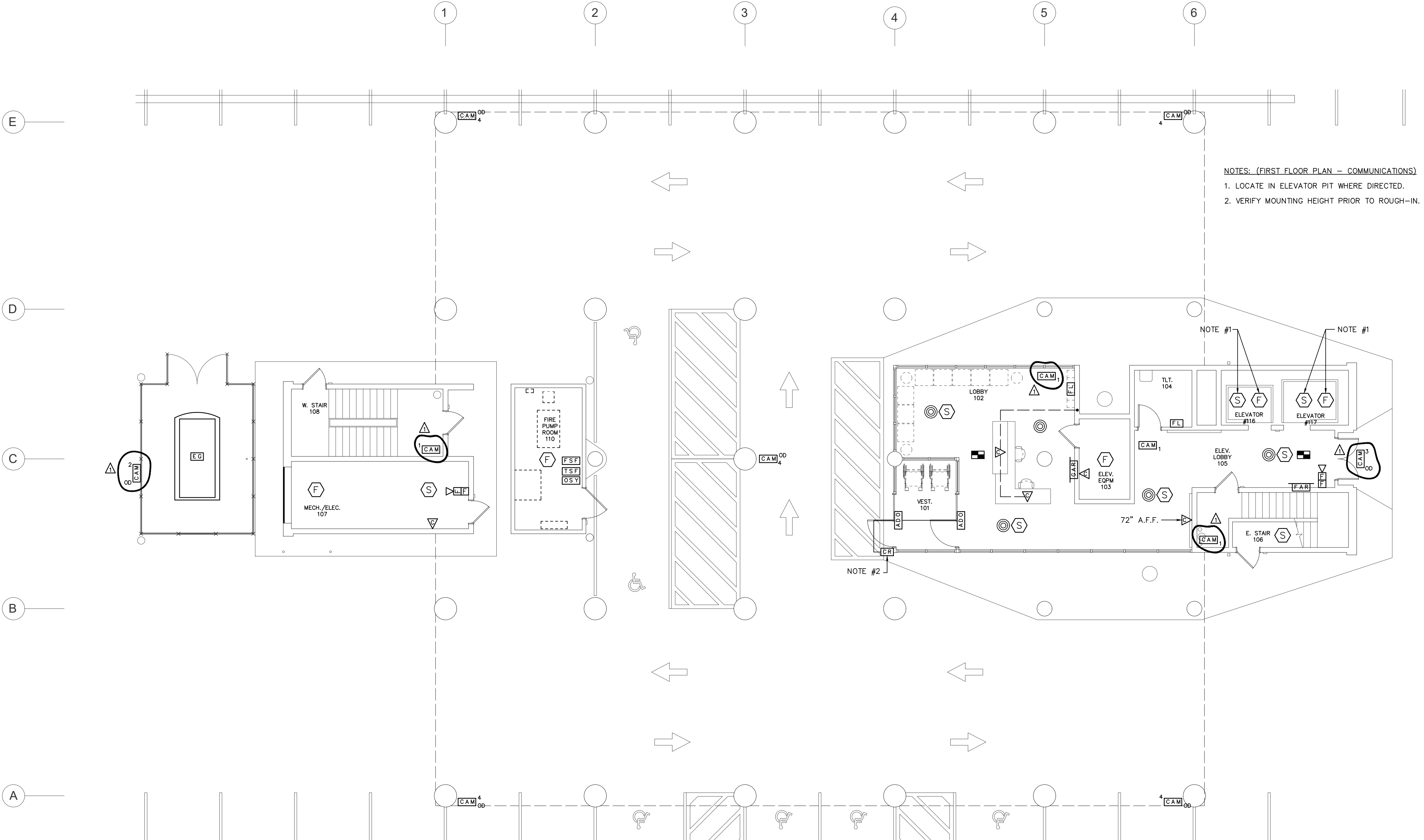
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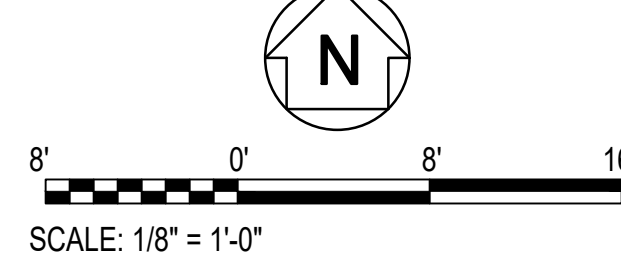
PANEL SCHEDULE:

- "A" = PANEL "H1A"
- "B" = PANEL "H2A"
- "C" = PANEL "H3A"
- "D" = PANEL "H4A"
- "E" = PANEL "EHA"
- "H" = PANEL "L1A"
- "J" = PANEL "L2A"
- "K" = PANEL "L3A"
- "L" = PANEL "L4A"
- "M" = PANEL "ELA"
- "N" = PANEL "ELB"
- "P" = PANEL "L2B"
- "R" = PANEL "L3B"
- "S" = PANEL "L4B"



**COMMUNICATIONS
 FIRST FLOOR PLAN**

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



Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39206, Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7685
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 Architects & Planners, P.L.L.C.
 SUITE 200
 1500 NORTH STATE STREET
 JACKSON, MISSISSIPPI 39201
 TEL: 601.552.3071
 FAX: 601.552.3071
 EMAIL: info@foillwyatt.com
 WWW: www.foillwyatt.com

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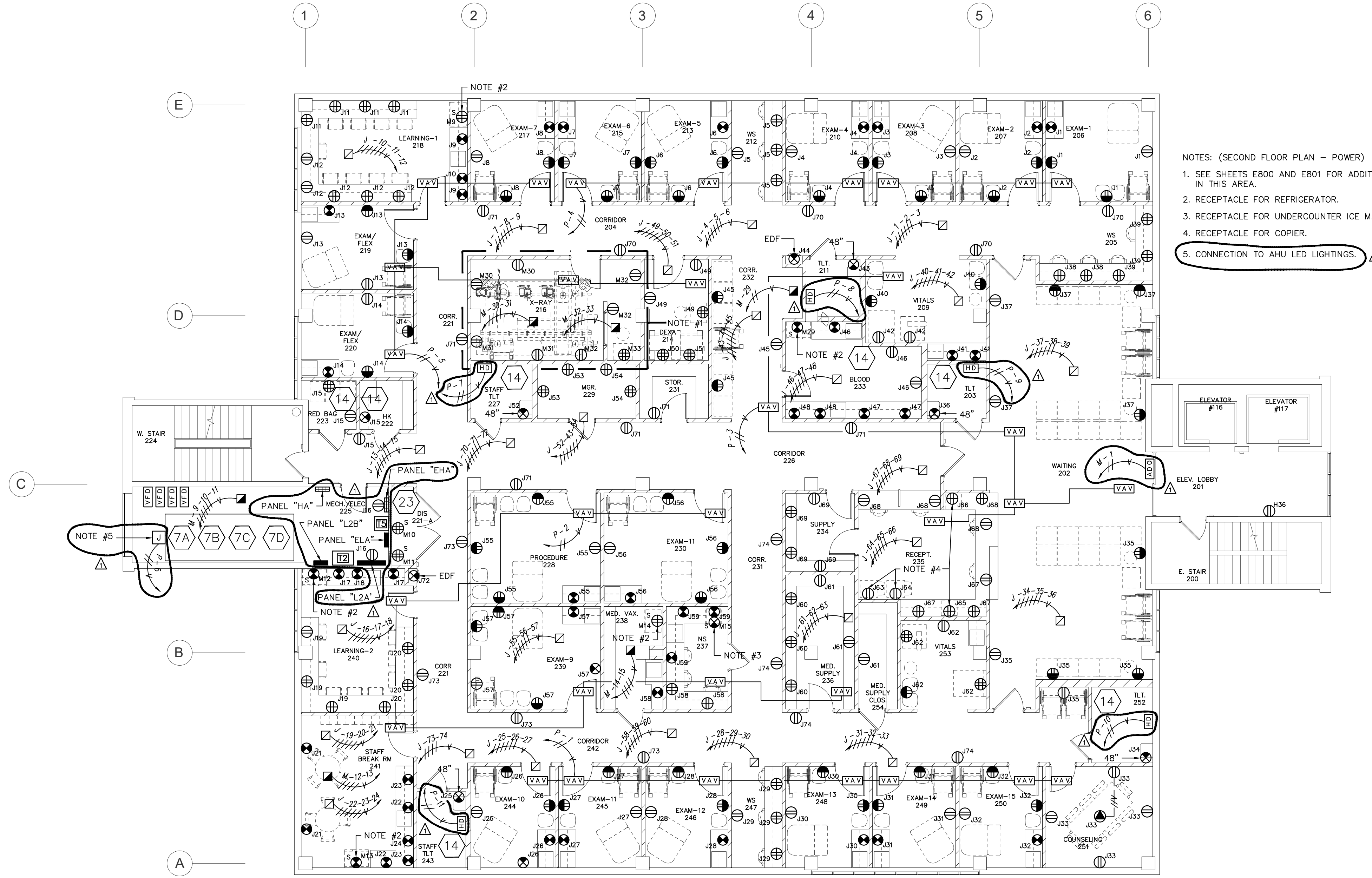
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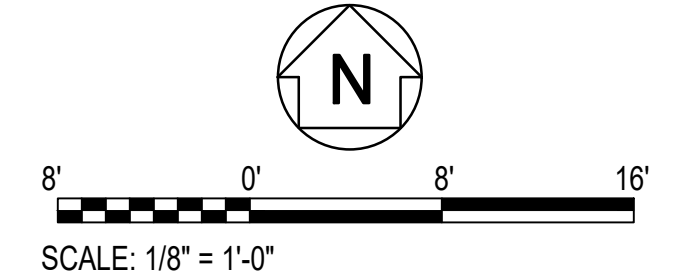
PANEL SCHEDULE:

"A"	=	PANEL "H1A"
"B"	=	PANEL "H2A"
"C"	=	PANEL "H3A"
"D"	=	PANEL "H4A"
"E"	=	PANEL "EHA"
"H"	=	PANEL "L1A"
"J"	=	PANEL "L2A"
"K"	=	PANEL "L3A"
"L"	=	PANEL "L4A"
"M"	=	PANEL "ELA"
"N"	=	PANEL "ELB"
"P"	=	PANEL "L2B"
"R"	=	PANEL "L3B"
"S"	=	PANEL "L4B"
"T"	=	PANEL "ELC"



- NOTES: (SECOND FLOOR PLAN - POWER)
- SEE SHEETS E800 AND E801 FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS AREA.
 - RECEPTACLE FOR REFRIGERATOR.
 - RECEPTACLE FOR UNDERCOUNTER ICE MACHINE.
 - RECEPTACLE FOR COPIER.
 - CONNECTION TO AHU LED LIGHTINGS.

POWER
SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



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 Office Box 16074, Jackson, MS 39216
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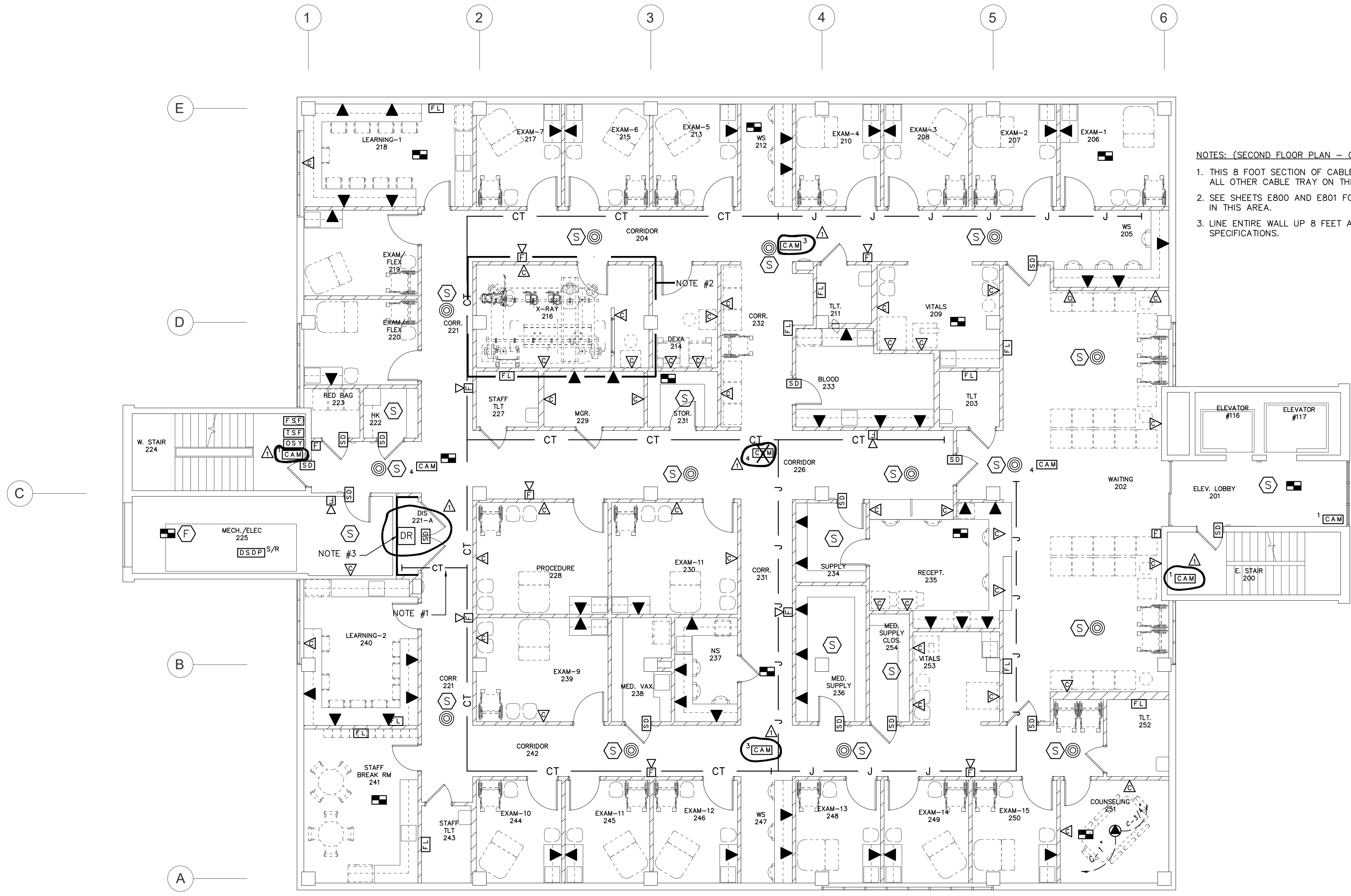
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ADE203
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PANEL SCHEDULE:

"A"	=	PANEL "H1A"
"B"	=	PANEL "H2A"
"C"	=	PANEL "H3A"
"D"	=	PANEL "H4A"
"E"	=	PANEL "EHA"
"H"	=	PANEL "L1A"
"J"	=	PANEL "L2A"
"K"	=	PANEL "L3A"
"L"	=	PANEL "L4A"
"M"	=	PANEL "ELA"
"N"	=	PANEL "ELB"
"P"	=	PANEL "L2B"
"R"	=	PANEL "L3B"
"S"	=	PANEL "L4B"

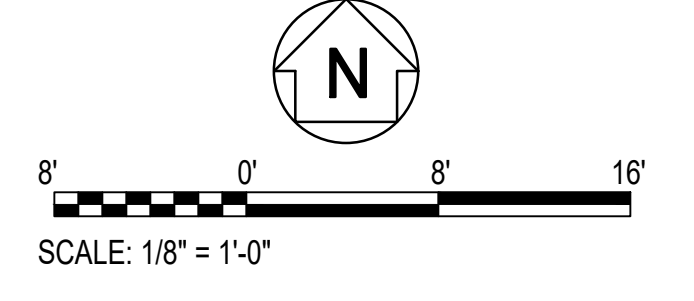


NOTES: (SECOND FLOOR PLAN - COMMUNICATIONS)

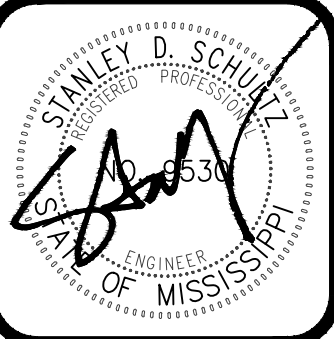
1. THIS 8 FOOT SECTION OF CABLE TRAY SHALL BE 12" WIDE. ALL OTHER CABLE TRAY ON THIS FLOOR SHALL BE 6" WIDE.
2. SEE SHEETS E800 AND E801 FOR ADDITIONAL ELECTRICAL REQUIREMENTS IN THIS AREA.
3. LINE ENTIRE WALL UP 8 FEET A.F.F. WITH PAINTED PLYWOOD PER THE SPECIFICATIONS.

**COMMUNICATIONS
 SECOND FLOOR PLAN**

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



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 Consulting Electrical Engineers
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SUITE 200
1505 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TELEPHONE: 601.552.3071
FAX: 601.552.3072
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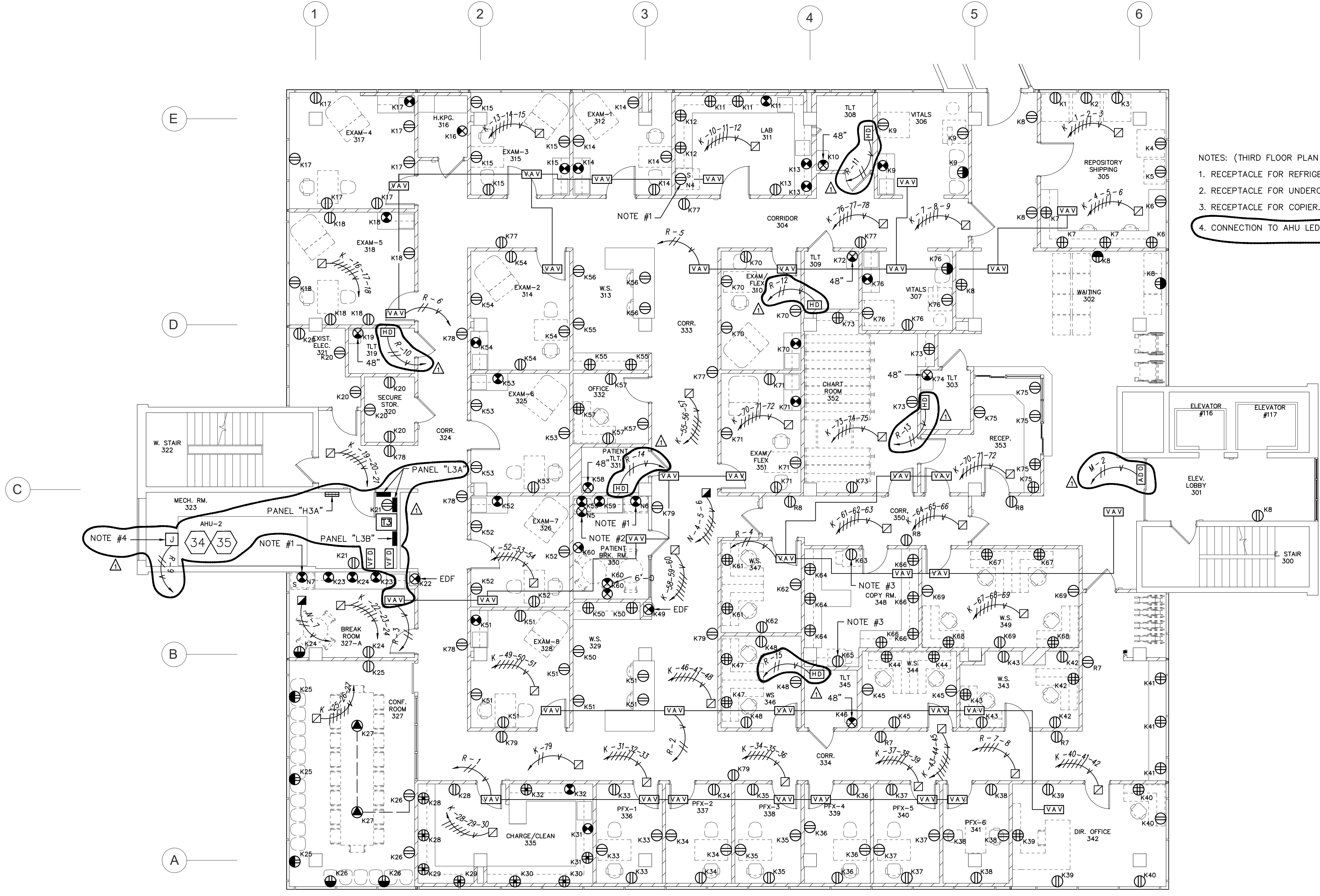
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revised
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drawn by:
J.G.H.

sheet no.
ADE302
of

PANEL SCHEDULE:	
"A"	= PANEL "H1A"
"B"	= PANEL "H2A"
"C"	= PANEL "H3A"
"D"	= PANEL "H4A"
"E"	= PANEL "H5A"
"F"	= PANEL "L1A"
"G"	= PANEL "L2A"
"H"	= PANEL "L3A"
"I"	= PANEL "L4A"
"J"	= PANEL "L5A"
"K"	= PANEL "L2B"
"L"	= PANEL "L3B"
"M"	= PANEL "L4B"
"N"	= PANEL "L5B"
"T"	= PANEL "ELC"

- NOTES: (THIRD FLOOR PLAN - POWER)
1. RECEPTACLE FOR REFRIGERATOR.
 2. RECEPTACLE FOR UNDERCOUNTER ICE MACHINE.
 3. RECEPTACLE FOR COPIER.
 4. CONNECTION TO AHU LED LIGHTINGS. △



POWER
THIRD FLOOR PLAN

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



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

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TEL: 601-982-5313 FAX: 601-982-7685

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 1515 NORTH STATE STREET
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 FAX: 601.552.3071
 EMAIL: info@foillwyatt.com
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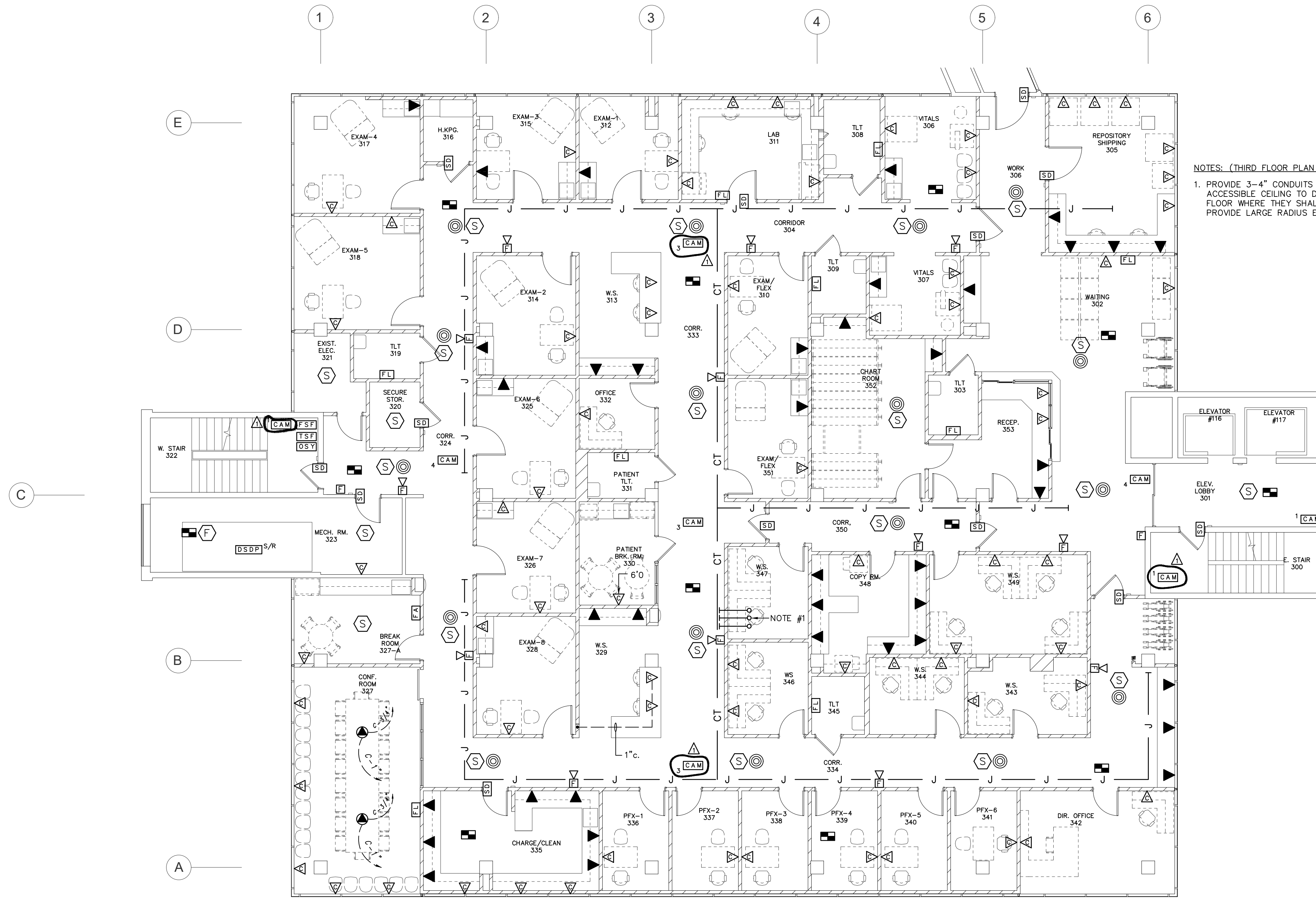
drawn by:
J.G.H.

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ADE303
 of

PANEL SCHEDULE:

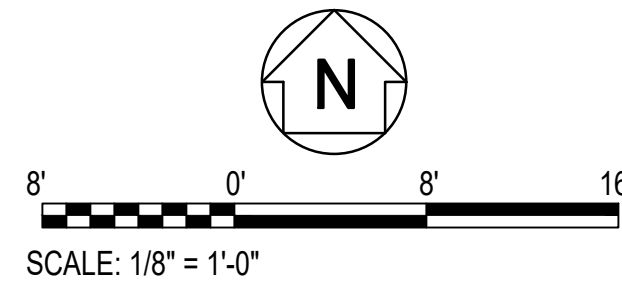
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"B"	=	PANEL "H2A"
"C"	=	PANEL "H3A"
"D"	=	PANEL "H4A"
"E"	=	PANEL "EHA"
"H"	=	PANEL "L1A"
"J"	=	PANEL "L2A"
"K"	=	PANEL "L3A"
"L"	=	PANEL "L4A"
"M"	=	PANEL "ELA"
"N"	=	PANEL "ELB"
"P"	=	PANEL "L2B"
"R"	=	PANEL "L3B"
"S"	=	PANEL "L4B"

NOTES: (THIRD FLOOR PLAN - COMMUNICATIONS)
 1. PROVIDE 3-4" CONDUITS FROM 12" CABLE TRAY ABOVE ACCESSIBLE CEILING TO DATA ROOM 445 ON FOURTH FLOOR WHERE THEY SHALL BE ROUTED TO THE CEILING. PROVIDE LARGE RADIUS ELBOWS OR 45° FITTINGS PER UMMC.



**COMMUNICATIONS
 THIRD FLOOR PLAN**

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



Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39206 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7685
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 Architects & Planners, P.L.L.C.
 SUITE 200
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 FAX: 601.552.3071
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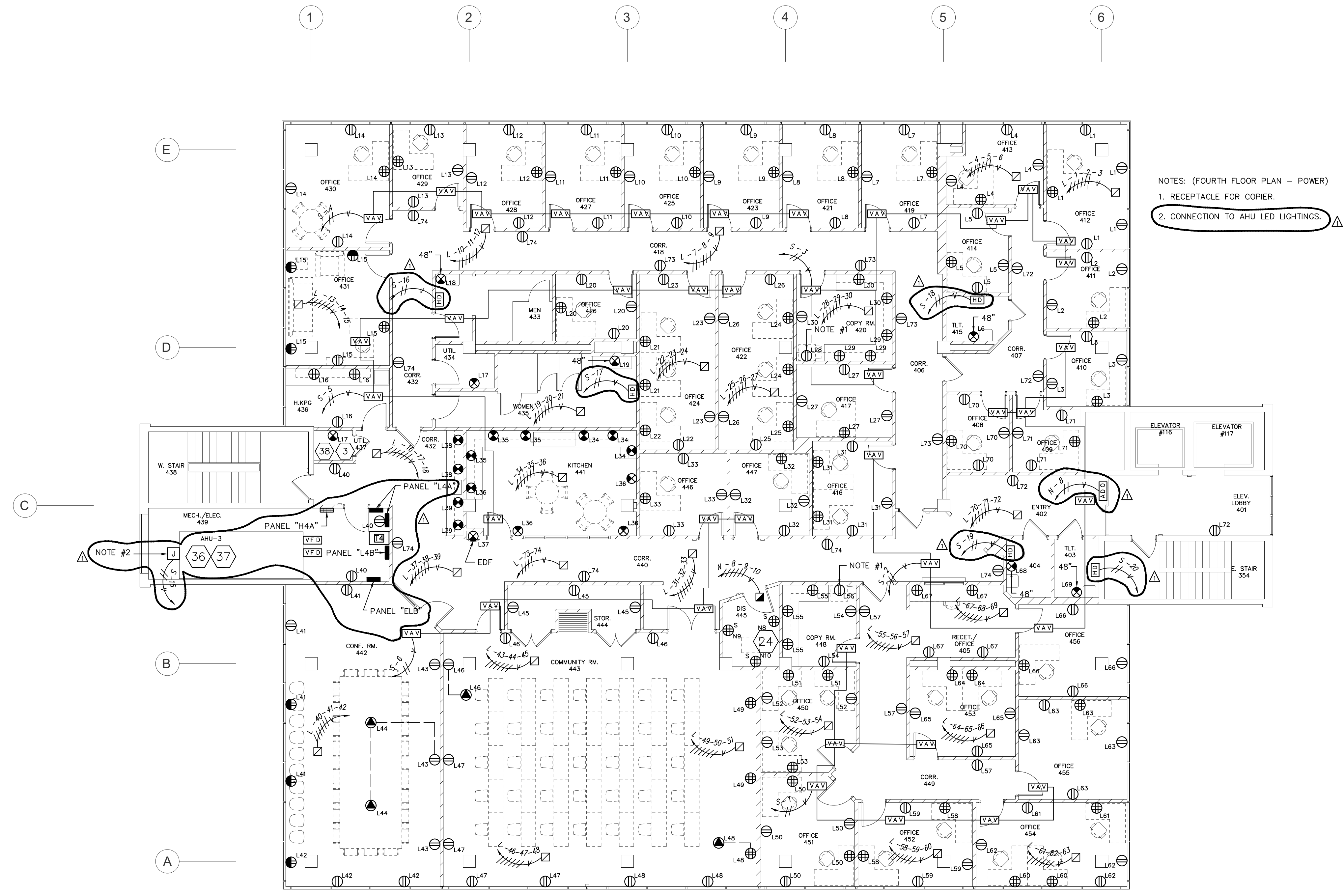
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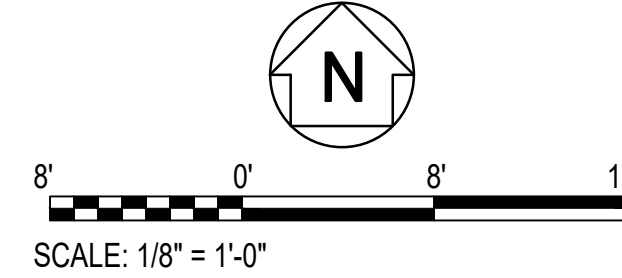
PANEL SCHEDULE:

"A"	=	PANEL "H1A"
"B"	=	PANEL "H2A"
"C"	=	PANEL "H3A"
"D"	=	PANEL "H4A"
"E"	=	PANEL "EH4A"
"H"	=	PANEL "L1A"
"J"	=	PANEL "L2A"
"K"	=	PANEL "L3A"
"L"	=	PANEL "L4A"
"M"	=	PANEL "ELA"
"N"	=	PANEL "ELB"
"P"	=	PANEL "L2B"
"R"	=	PANEL "L3B"
"S"	=	PANEL "L4B"

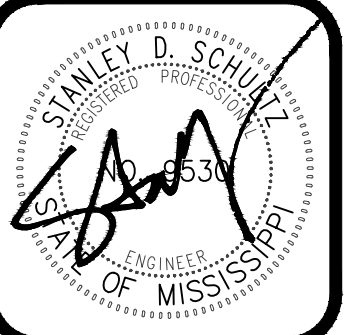


NOTES: (FOURTH FLOOR PLAN - POWER)
 1. RECEPTACLE FOR COPIER.
 2. CONNECTION TO AHU LED LIGHTINGS.

POWER
FOURTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"



Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39216 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7665
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 Architects & Planners, P.L.L.C.
 SUITE 200
 1500 NORTH STATE STREET
 JACKSON, MISSISSIPPI 39201
 TEL: 601-552-3071
 FAX: 601-552-3071
 EMAIL: info@foillwyatt.com
 WWW: www.foillwyatt.com

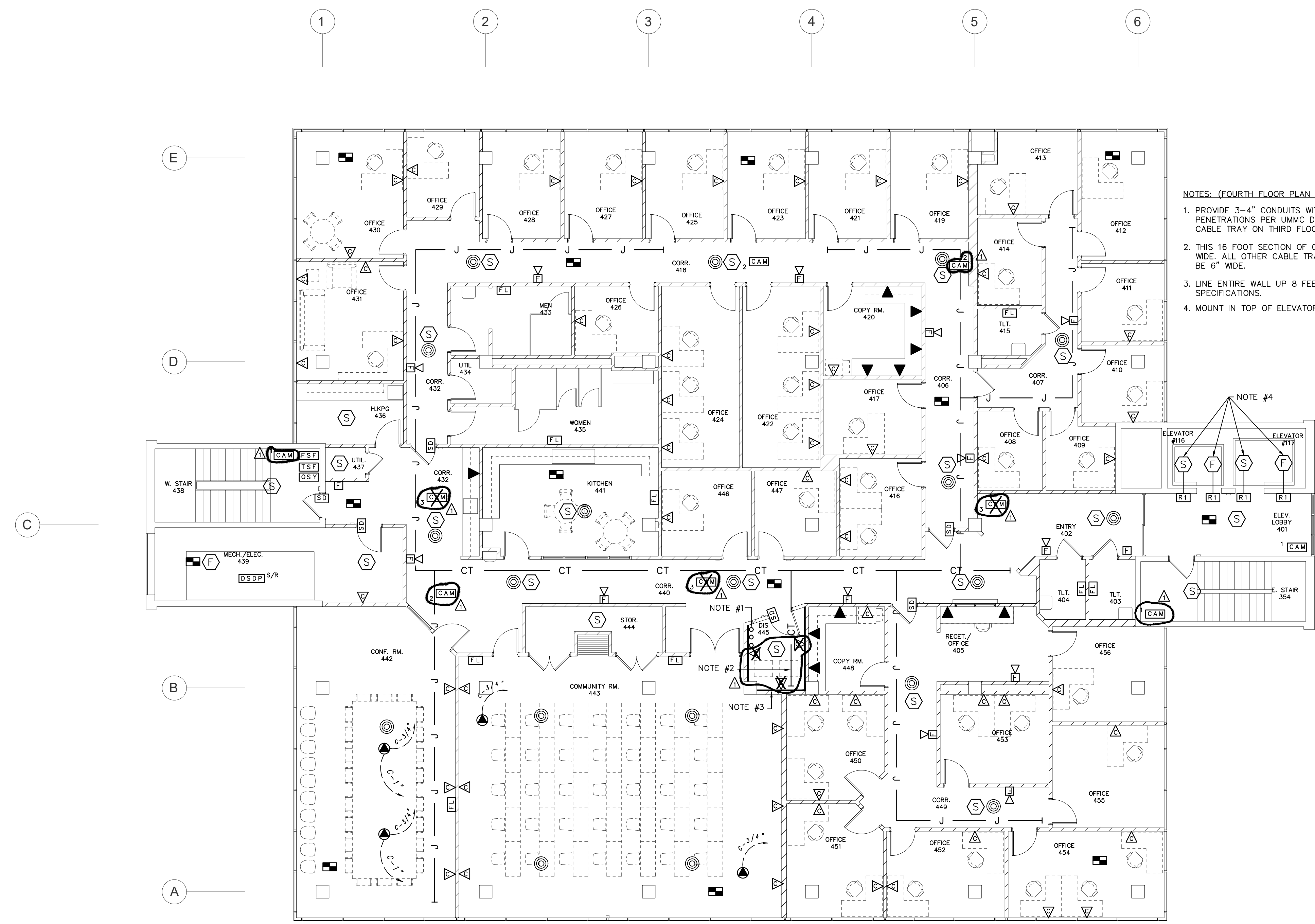
UMMC MIND CENTER & GERIATRIC CLINIC
 209-587
 UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
 JACKSON, MISSISSIPPI

project no.
1682-24
 date
17 SEPTEMBER 2025
 revised
 Δ - 27 OCTOBER 2025
 drawn by
J.G.H.

sheet no.
ADE403
 of

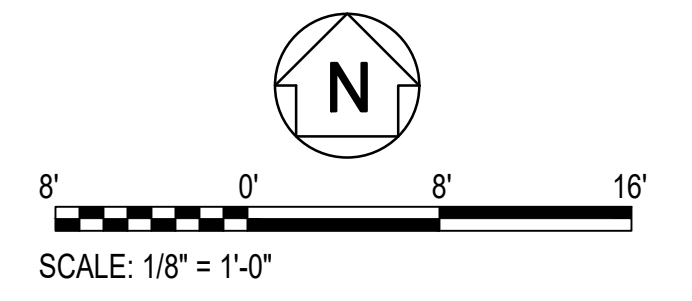
PANEL SCHEDULE:

"A"	=	PANEL "H1A"
"B"	=	PANEL "H2A"
"C"	=	PANEL "H3A"
"D"	=	PANEL "H4A"
"E"	=	PANEL "EHA"
"H"	=	PANEL "L1A"
"J"	=	PANEL "L2A"
"K"	=	PANEL "L3A"
"L"	=	PANEL "L4A"
"M"	=	PANEL "ELA"
"N"	=	PANEL "ELB"
"P"	=	PANEL "L2B"
"R"	=	PANEL "L3B"
"S"	=	PANEL "L4B"

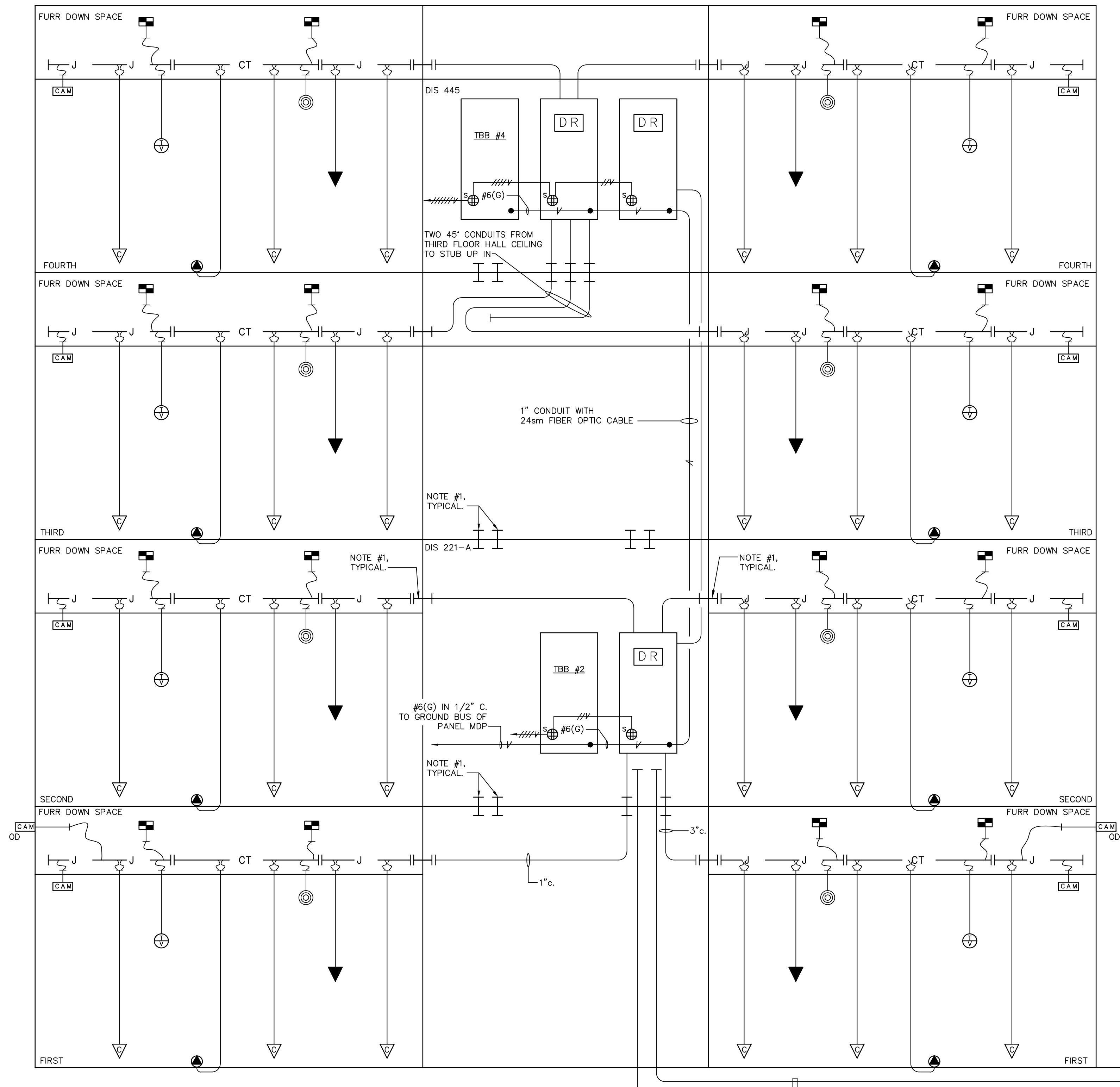


- NOTES: (FOURTH FLOOR PLAN - COMMUNICATIONS)**
1. PROVIDE 3-4" CONDUITS WITH HILTI SLEEVE TYPE PENETRATIONS PER UMMC DESIGN GUIDE. ROUTE TO CABLE TRAY ON THIRD FLOOR.
 2. THIS 16 FOOT SECTION OF CABLE TRAY SHALL BE 12" WIDE. ALL OTHER CABLE TRAY ON THIS FLOOR SHALL BE 6" WIDE.
 3. LINE ENTIRE WALL UP 8 FEET A.F.F. WITH PAINTED PLYWOOD PER THE SPECIFICATIONS.
 4. MOUNT IN TOP OF ELEVATOR SHAFT WHERE DIRECTED.

COMMUNICATIONS
FOURTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"



Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39206 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7685
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COMMUNICATIONS RISER DIAGRAM
NO SCALE

GENERAL NOTES:

1. CONDUITS SHALL HAVE LONG RADIUS BENDS.
2. CONDUITS SHALL 1" MINIMUM UNLESS NOTED OTHERWISE.
3. CONTRACTOR TO PROVIDE CONDUIT, BOXES, PATHWAYS, BACKBOARDS, POWER, CABLE OUTLETS, TERMINATION, CABLING, AND GROUNDING.

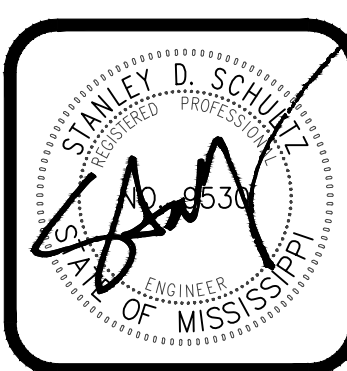
COMMUNICATIONS OUTLET DETAIL
SYMBOLS '▽', '▼', '◎', 'CAM', 'CAM', 'CAM' AND 'CAM'
NO SCALE

- ▽ — 2 CAT. 6 DATA CABLES IN 1" c.
- ▼ — 2 CAT. 6 DATA CABLES IN 1" c.
- ◎ — 1 CAT. 6 DATA CABLE IN 3/4" c.
- CAM — 1 CAT. 6 DATA CABLE IN 3/4" c.
- ^{OD}CAM — 1 CAT. 6 DATA CABLE IN 3/4" c.
- — 1 CAT. 6 DATA CABLE IN 3/4" c.
- ⊕ — 1 CAT. 6 DATA CABLE IN 3/4" c.

302 STAINLESS STEEL

NOTES: COMMUNICATIONS RISER DIAGRAM
1. 3" CONDUIT SLEEVE. FIRE SEAL AS REQUIRED BY ARCHITECT.

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FoUWYATT
Architects & Planners, PLLC
1515 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
PHONE: 601-532-3071
FAX: 601-532-3071
EMAIL: info@fouwyatt.com
WWW.FOUWYATT.COM

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project no. 1682-24
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△ - 27 OCTOBER 2025
drawn by J.G.H.

sheet no. ADE701
of

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
H1A	1-2	3	30	VOLTAGE: 480Y/277 W/GND: 3PH, 4W. M.L.O.: 225A MOUNTING: SURFACE K.A.I.C.: 22K	
	3-4	3	20		
	5*	3	70		
SPARES	4	1	20	* - BREAKER FOR PANEL "L1A"	
TOTAL	9	19	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
H2A	1-2	3	40	VOLTAGE: 480Y/277 W/GND: 3PH, 4W. MAINBREAHER: 200A3P MOUNTING: SURFACE K.A.I.C.: 22K	
	3	3	100		
	4*	3	125		
SPARES	4	1	20	* - BREAKER FOR PANEL "L2A"	
TOTAL	8	16	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
H3A	1-2	3	40	VOLTAGE: 480Y/277 W/GND: 3PH, 4W. MAINBREAHER: 150A3P MOUNTING: SURFACE K.A.I.C.: 22K	
	3*	3	175		
	3	3	125		
SPARES	4	1	20	* - BREAKER FOR PANEL "L3A"	
TOTAL	7	13	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
H4A	1-2	3	15	VOLTAGE: 480Y/277 W/GND: 3PH, 4W. MAINBREAHER: 150A3P MOUNTING: SURFACE K.A.I.C.: 22K	
	3-4	3	40		
	5*	3	125		
SPARES	4	1	20	* - BREAKER FOR PANEL "L4A"	
TOTAL	9	19	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L1A	1-12	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 225A MOUNTING: SURFACE K.A.I.C.: 10K	
	13	2	35		
	14	2	15		
	15-17	1	20		
	1	1	20		
SPARES	5	1	20	* - BREAKER FOR PANEL "L2B"	
TOTAL	28	30	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L2A	1-42	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 225A MOUNTING: SURFACE K.A.I.C.: 10K	
	43-77	1	20		
	78*	3	70		
DOUBLE SECTION					
SPARES	4	1	20	* - BREAKER FOR PANEL "L2B"	
TOTAL	82	84	-		

PANEL "MDP"					
CIRCUIT	POLES	AMPS	FRAME (K)	LOAD	
1	3	350	35K	CHILLER CH-1	
2*	3	100	35K	ELEVATOR #116	
3	3	100	35K	PANEL "H1A"	
4	3	200	35K	PANEL "H2A"	
5	3	175	35K	PANEL "H3A"	
6	3	150	35K	PANEL "H4A"	
7	3	225	35K	PANEL "EHA"	
8	3	60	35K	SPD	
9	3	-	35K	SPACE	
10	3	-	35K	SPACE	
11	3	-	35K	SPACE	

VOLTS: 480Y/277
MOUNTING: SURFFACE
PHASES: 3 WIRE: 4
MAIN BREAKER: 800A3P
NEUT. BUS: 800A
GROUND BUS: 800A

* - SHUNT TRIP BREAKER

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L3A	1-42	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. MAINBREAHER: 300A3P MOUNTING: SURFACE K.A.I.C.: 10K	
	43-81	1	20		
	82*	3	70		
DOUBLE SECTION					
SPARES	-	-	-	* - BREAKER FOR PANEL "L3B"	
TOTAL	82	84	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L4A	1-42	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 225A MOUNTING: SURFACE K.A.I.C.: 10K	
	43-75	1	20		
	76-77	1	34		
	78-79	1	20		
	80*	3	70		
DOUBLE SECTION					
SPARES	2	1	0	* - BREAKER FOR PANEL "L4B"	
TOTAL	82	84	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
EHA	1-19	1	20	VOLTAGE: 480Y/277 W/GND: 3PH, 4W. MAINBREAHER: 225A3P MOUNTING: SURFACE K.A.I.C.: 10K	
	20	3	25		
	21-23	1	20		
	24*	3	70		
	25**	3	70		
	26***	3	60		
	27-36	1	1		
37**	3	3			
DOUBLE SECTION					
SPARES	6	1	20	* - SHUNT TRIP BREAKER ** - BREAKER FOR PANEL "ELA" *** - BREAKER FOR SPD	
TOTAL	32	42	-		

CIRCUIT SCHEDULE								
PANEL	CIRCUIT	POLES	AMPS	REMARKS				
ELA	1-2	1	1	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 225A MOUNTING: SURFACE K.A.I.C.: 10K				
	3-8	1	1					
	9-15	1	1					
	16*	3	3					
	17-22	1	1					
	23-24	1	1					
	25	2	2					
	26	3	3					
	27-36	1	1					
	37**	3	3					
	DOUBLE SECTION							
	SPARES	-	-			-	* - BREAKER FOR PANEL "ELC" ** - BREAKER FOR PANEL "ELB"	
	TOTAL	37	42			-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
ELB	1-8	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 100A MOUNTING: SURFACE K.A.I.C.: 10K	
	9	1	20		
	24	24	-		
DOUBLE SECTION					
SPARES	7	1	20	* - BREAKER FOR PANEL "ELC"	
TOTAL	24	24	-		

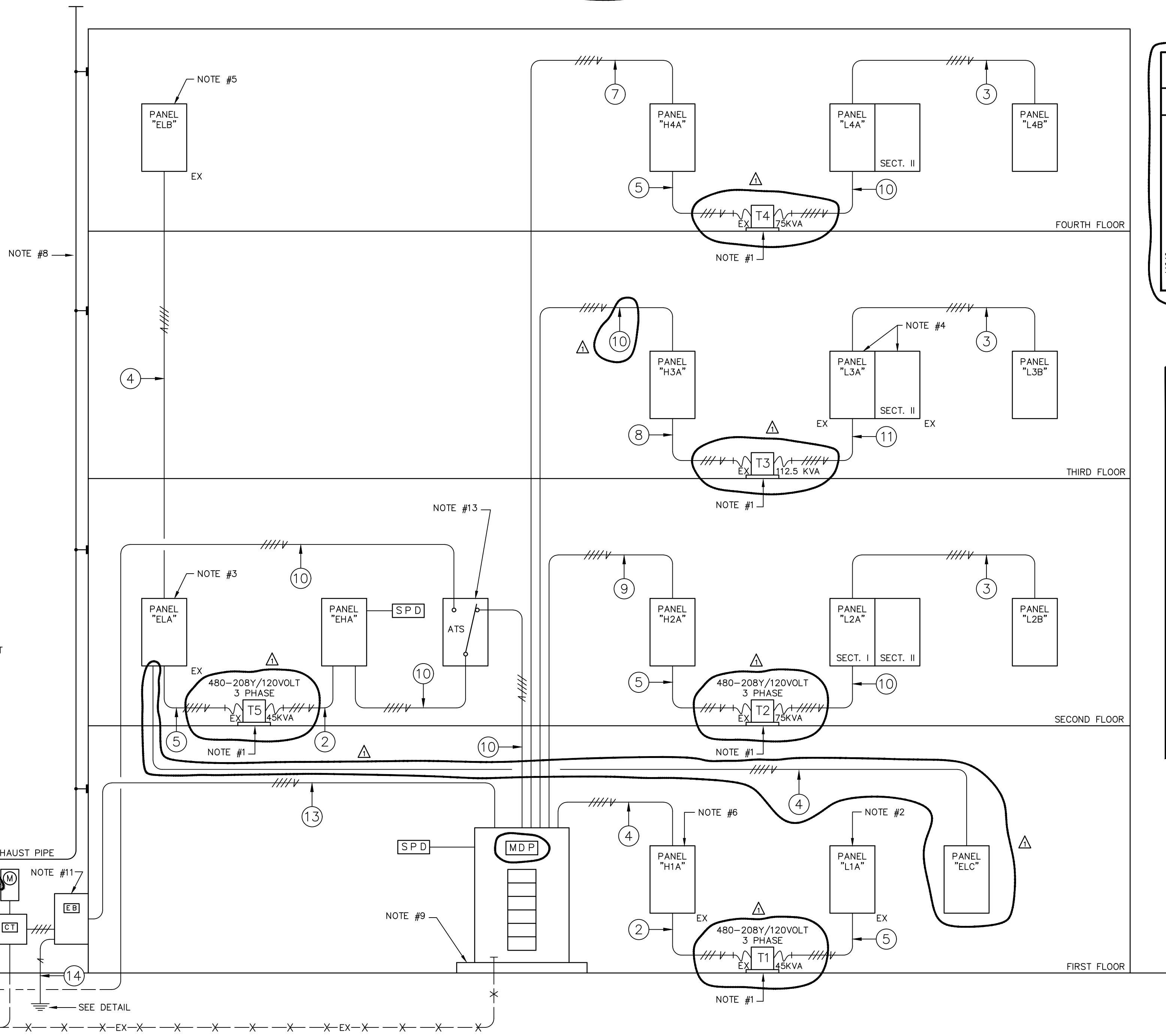
CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L2B	1-11	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 100A MOUNTING: SURFACE K.A.I.C.: 10K	
	12	1	20		
	24	24	-		
DOUBLE SECTION					
SPARES	6	1	20	* - BREAKER FOR PANEL "L2B"	
TOTAL	24	24	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L3B	1-15	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 100A MOUNTING: SURFACE K.A.I.C.: 10K	
	16	1	20		
	24	24	-		
DOUBLE SECTION					
SPARES	4	1	20	* - BREAKER FOR PANEL "L3B"	
TOTAL	24	24	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
L4B	1-20	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 300A MOUNTING: SURFACE K.A.I.C.: 10K	
	21	1	20		
	30	30	-		
DOUBLE SECTION					
SPARES	5	1	20	* - BREAKER FOR PANEL "L4B"	
TOTAL	30	30	-		

CIRCUIT SCHEDULE					
PANEL	CIRCUIT	POLES	AMPS	REMARKS	
ELC	1-13	1	20	VOLTAGE: 208Y/120 W/GND: 3PH, 4W. M.L.O.: 100A MOUNTING: SURFACE K.A.I.C.: 10K	
	14	1	20		
	24	24	-		
DOUBLE SECTION					
SPARES	5	1	20	* - BREAKER FOR PANEL "ELC"	
TOTAL	24	24	-		

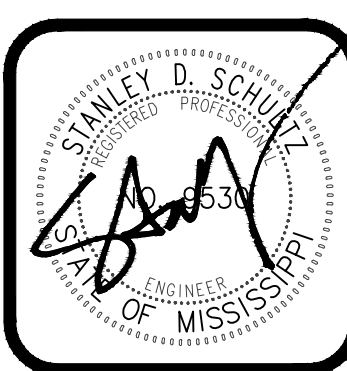
- NOTES: (POWER RISER DIAGRAM)
- EXISTING DRY-TYPE TRANSFORMERS BEING RE-USED FROM BUILDING DEMOLITION WORK.
 - EXISTING PANEL "LUPS" LOCATED ON THE THIRD FLOOR BEING RE-USED AS PANEL "L1A" AND CONNECTED PER THESE PLANS. MODIFY PANEL, RE-ARRANGE BREAKERS, ADD BREAKERS, AS PER THE CIRCUIT SCHEDULE.
 - EXISTING PANEL "LEM" LOCATED ON THE SECOND FLOOR BEING RE-USED AS PANEL "ELA" AND CONNECTED PER THESE PLANS. MODIFY PANEL, RE-ARRANGE BREAKERS, ADD BREAKERS, AS PER THE CIRCUIT SCHEDULE.
 - EXISTING DOUBLE SECTION PANEL "L2A" LOCATED ON THE SECOND FLOOR BEING RE-USED AS PANEL "L3A" AND CONNECTED PER THESE PLANS. MODIFY PANEL, RE-ARRANGE BREAKERS, ADD BREAKERS AS PER THE CIRCUIT SCHEDULE.
 - EXISTING PANEL "LAB" LOCATED ON THE THIRD FLOOR BEING RE-USED AS PANEL "ELB" AND CONNECTED PER THESE PLANS. MODIFY PANEL, RE-ARRANGE BREAKERS, ADD BREAKERS, AS PER THE CIRCUIT SCHEDULE.
 - EXISTING PANEL "HB" LOCATED ON THE THIRD FLOOR BEING RE-USED AS PANEL "H1A" AND CONNECTED PER THESE PLANS. MODIFY PANEL, RE-ARRANGE BREAKERS, ADD BREAKERS, AS PER THE CIRCUIT SCHEDULE.
 - INSTALL 150KW NATURAL GAS, 480 VOLT, 3 PHASE, EMERGENCY GENERATOR WITH WEATHERPROOF HOUSING, 225A2P CIRCUIT BREAKER TO ATS, AND A DIRECT CONNECTION OF THE FIRE PUMP FEEDER.
 - PROVIDE AND/OR COORDINATE, WITH THE GC AND MECHANICAL CONTRACTOR, THE INSTALLATION AND SUPPORTS TO EXTEND THE GENERATOR EXHAUST PIPE TO THE TOP OF THE BUILDING.
 - PROVIDE CONCRETE PAD FOR GENERATOR/MAIN DISTRIBUTION PANEL PER DETAIL.
 - PROVIDE CT ENCLOSURE TO BE PER UTILITY COMPANY REQUIREMENTS, OR FOR BIDDING PURPOSES, USE 36" X 36" X 12" DEEP, NEMA 3R.
 - PROVIDE 800A3P, 480 VOLT SERVICE RATED, NEMA 3R, ENCLOSED CIRCUIT BREAKER RATED AT 35KAIC WITH SOLID NEUTRAL AND GROUND BUS. COORDINATE LOCATION WITH ARCHITECT.
 - NEW 480 VOLT, 3 PHASE SECONDARY SERVICE TO FIRE PUMP. COORDINATE INSTALLATION WITH UTILITY COMPANY, REMOVE UN-USED SERVICE RISER CONDUIT TO ALLOW ROOM ON POLE FOR NEW SECONDARY SERVICE TO FIRE PUMP.
 - INSTALL 225A, 480 VOLT, 3 PHASE, AUTOMATIC TRANSFER SWITCH.
 - EXISTING UNDERGROUND SERVICE, CONCRETE ENCASED DUCT, TO BE RE-WORKED TO NEW SERVICE DISCONNECT THRU CT CAN/METER.
 - METER BY UTILITY COMPANY. COORDINATE LOCATION AND REQUIREMENTS WITH UTILITY SERVICE COMPANY.



- CONDUCTOR SCHEDULE:
- 3 - #6, 1" c.
 - 3 - #4, 1 - #8(G), 1" c.
 - 4 - #4, 1 - #8(G), 1" c.
 - 4 - #2, 1 - #8(G), 1 1/4" c.
 - 3 - #1, 1 - #6(G), 1 1/2" c.
 - NOT USED
 - 4 - #1/0, 1 - #6(G), 2" c.
 - 3 - #2/0, 1 - #6(G), 2" c.
 - 4 - #3/0, 1 - #6(G), 2" c.
 - 4 - #4/0, 1 - #4(G), 2 1/2" c.
 - 4 - 350MCM, 1 - #4(G), 2 1/2" c.
 - 2 - 3 1/2" c., EACH WITH 4 - 500MCM
 - 2 - 3 1/2" c., EACH WITH 4 - 500MCM, 1 - #1/0(G)
 - #2/0(G) IN 3/4" c.
 - #8(G) IN 1/2" c.
 - 3 - #6, 1 - #8(G), 1" c.

POWER RISER DIAGRAM
NO SCALE

Schultz & Wynne
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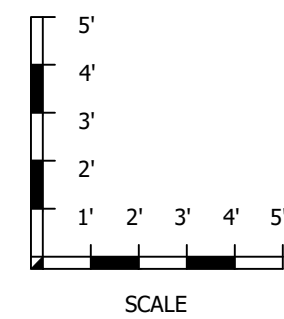
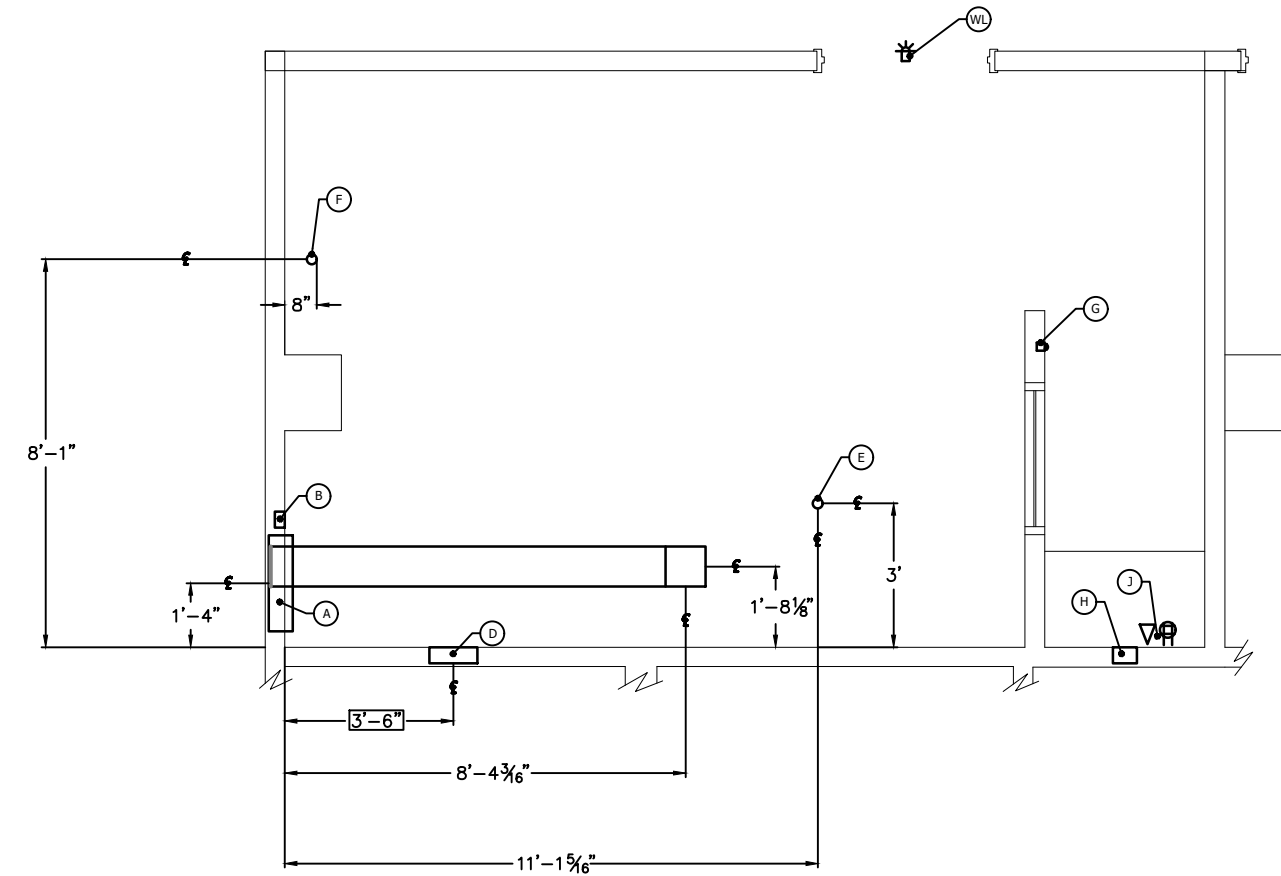


FoUWYATT
Architects & Planners, P.L.L.C.
SUITE 200
1515 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
TELEPHONE: 601-532-9771
FAX: 601-532-9771
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ALL ITEMS SHOWN IN THIS DRAWING SET ARE REQUIRED FOR THE X-RAY SYSTEM BEING INSTALLED. IT DOES NOT REFLECT ANY OUTLETS, NETWORK DROPS, OR ANY OTHER ITEM THE CUSTOMER REQUIRES FOR OTHER EQUIPMENT, TO MEET CODE, OR CUSTOMER USE.

BOXED DIMENSIONS ARE FOR REFERENCE AND NON CRITICAL SLIGHT ADJUSTMENT TO MEET CODE OR SITE CONDITIONS IS PERMISSIBLE.

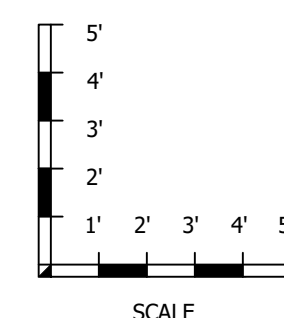
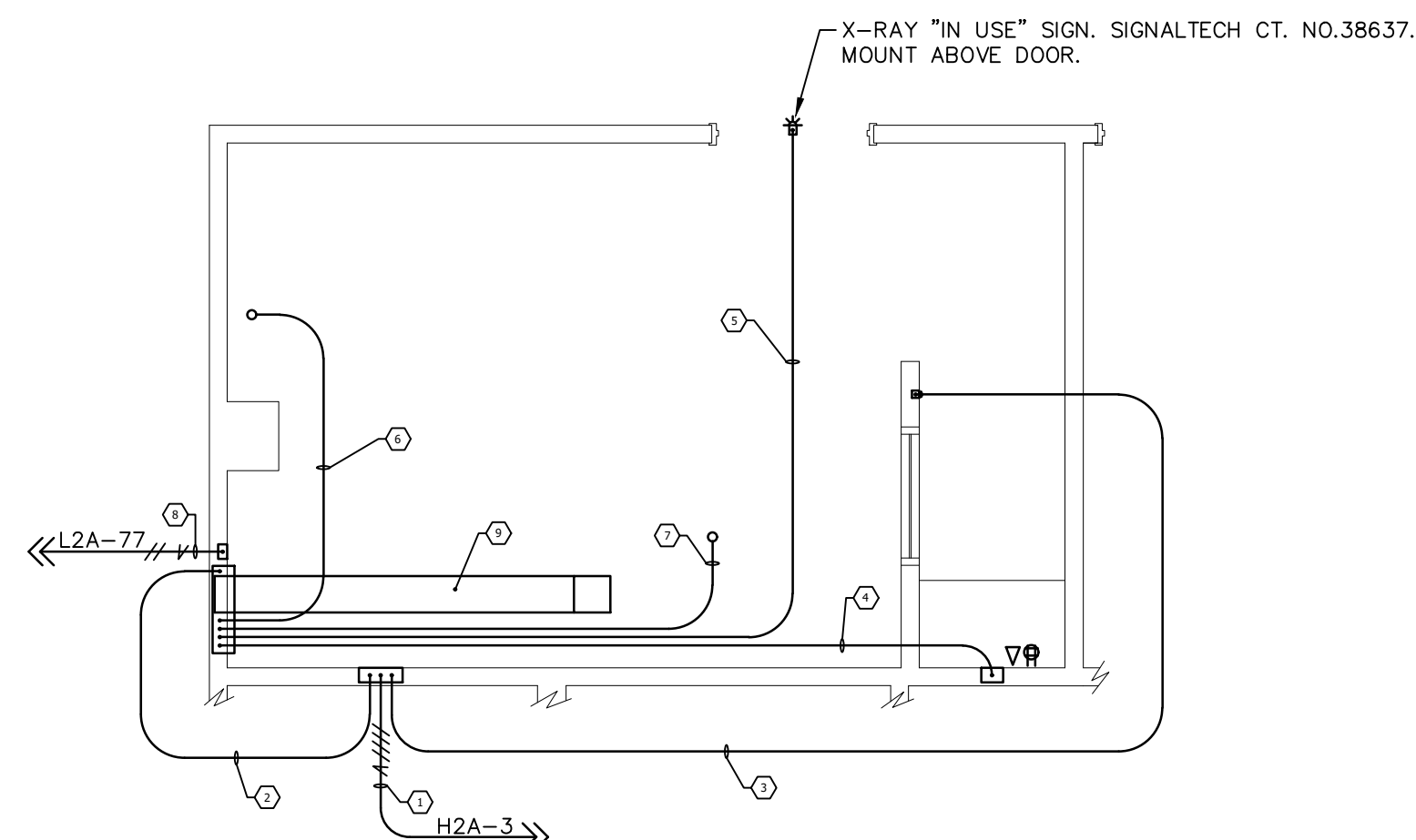
PROVIDE WHERE INDICATED
 120 VAC 15 AMP QUAD RECEPTACLE
 NETWORK CONNECTION WITH 2 OR MORE CAT. 6 CABLE OUTLETS. CAT. 6 CABLING BY OTHERS.

**PARTIAL FLOOR PLAN - SECOND FLOOR
 PROPOSED ELECTRICAL BOX LAYOUT - X-RAY 216**

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



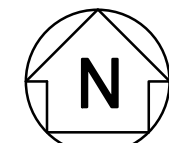
TERMINAL SCHEDULE (CONTRACTOR FURNISHED - CONTRACTOR INSTALLED)	
ITEM	DESCRIPTION
A	24" x 36" x 8" JUNCTION BOX. MOUNT IN WALL WHERE SHOWN. RECESS AS MUCH AS WALL WILL ALLOW. IF WALL ALLOWS FLUSH MOUNT, PROVIDE REMOVABLE FLUSH MOUNT COVER. IF BOX CAN NOT MOUNT FLUSH, PROVIDE APPROPRIATE REMOVABLE COVER. COVER AND BOX SHOULD HAVE NO SHARP EDGES. LOCATE BOX BOTTOM EDGE FLUSH WITH FLOOR. EC TO PROVIDE TERMINAL BLOCK INSIDE BOX TO CONNECT TO SYSTEM CABINET. PROVIDE 1 1/2" FLEX CONDUIT 5' LONG WITH 90° CONNECTOR ON BOTH ENDS. ATTACH ONE END TO COVER, THE OTHER END WILL ATTACH TO SYSTEM CABINET. PROVIDE WIRE LONGER THAN FLEX. SEE D-2
B	EC TO PROVIDE A QUAD RECEPTACLE WITH CENTER LINE LOCATED 35" A.F.F. FLUSH MOUNT WHERE SHOWN.
C	10" x 3 1/2" WALL AND CEILING TROUGH. SEE SHEET E3. TROUGH TO HAVE REMOVABLE COVERS AND CONNECT BOXES "A" TO "I". TROUGH TO HAVE ONE DIVIDER. TROUGH TO TAKE MOST DIRECT PATH POSSIBLE. DUE TO UNISTRUT REQUIREMENTS, TROUGH MAY NEED SLIGHT ADJUSTMENT. CONTACT EQUIPMENT VENDOR IF THIS IS NEEDED. CEILING TROUGH TO BE MOUNTED ABOVE UNISTRUT. WALL TROUGH TO BE MOUNTED FLUSH WITH WALL.
D	FACILITY TO DETERMINE SOURCE LOCATION. EXACT BOX LOCATION TO BE DETERMINED BY CODE. LOCATE CIRCUIT BREAKER AS CLOSE TO SYSTEM CABINET AS CODE AND FACILITY WILL ALLOW. NEMA 1, 480 VAC, THREE PHASE, FRONT OPERATED, CIRCUIT BREAKER ENCLOSURE WITH NEUTRAL AND GROUND. ENCLOSURE SHALL CONTAIN ONE 100 AMP, 3-POLE THERMOMAGNETIC CIRCUIT BREAKER WITH SHUNT TRIP DEVICE. FLUSH MOUNT IN WALL AS SHOWN. LOCATE ENCLOSURE CENTER LINE 5' 6" A.F.F. NOTE: EC SHALL ENSURE THAT LOGS ARE LARGE ENOUGH TO FACILITATE OVERSIZED INCOMING CABLES REQUIRED BY X-RAY EQUIPMENT. REFER TO "INCOMING WIRE SIZE" NOTES.
E	2.5" CONDUIT EXITS FLUSH WITH FLOOR. LOCATION IS CRITICAL. DO NOT ADJUST THIS LOCATION WITHOUT FIRST CONTACTING EQUIPMENT VENDOR!
F	2.5" CONDUIT EXITS FLUSH WITH FLOOR. EDGE OF CONDUIT MUST BE 5" FROM WALL FOR PROPER EQUIPMENT INSTALLATION. LOCATION IS CRITICAL. DO NOT ADJUST THIS LOCATION WITHOUT FIRST CONTACTING EQUIPMENT VENDOR!
G	4" x 2" x 2" DEEP SWITCH BOX. FLUSH MOUNT IN WALL WHERE SHOWN. LOCATE BOX CENTER LINE AT 6'-0" A.F.F. NOTE: EC SHALL PROVIDE ONE NORMALLY OPEN SWITCH WITH RED MUSHROOM HEAD AND "EMERGENCY OFF" NAME PLATE. SWITCH WILL BE USED FOR SHUNT TRIP DEVICE LOCATED ON CIRCUIT BREAKER.
H	6" x 6" x 4" JUNCTION BOX WITH SPLIT OVER SIZED FLUSH MOUNT COVER PLATE. CABLE ACCESS FOR THE CONTROL CONSOLE.
I	10" x 10" x 10" DEEP JUNCTION BOX. FLUSH MOUNT IN CEILING WHERE SHOWN WITH SPLIT FLUSH MOUNT COVER. PROVIDE 2 1/2" HOLE AND GROMMET MATERIAL LOCATED IN SPLIT. BOX TO BE MOUNTED 20 1/2" FROM FINISHED BACK WALL TO CENTER LINE OF BOX. DO NOT ADJUST THIS LOCATION WITHOUT FIRST CONTACTING EQUIPMENT VENDOR! IMPROPER LOCATION WILL NOT ALLOW INSTALLATION BOX MUST MOUNT NEXT TO UNISTRUT AND NOT INTERFERE WITH UNISTRUT OPERATION. BOX MUST NOT HANG BELOW UNISTRUT OR BE RECESSED INTO CEILING. SEE D3. BOX TO CONNECT TO CEILING TROUGH WITH OPENING THE SAME SIZE AS TROUGH.
J	EC TO PROVIDE ONE FACILITY GRADE, THREE PRONG, 120 VAC, 15AMP QUAD RECEPTACLE WHERE SHOWN AT NORMAL HEIGHT. EC TO PROVIDE NETWORK OUTLET DROP WHERE SHOWN UNDER COUNTER.
WL	4" x 4" x 2" JUNCTION BOX FOR THE "X-RAY ON" WARNING SIGN. FLUSH MOUNT IN WALL OR CEILING. EXACT LOCATION TO BE DETERMINED BY THE FACILITY. THE X-RAY ON WARNING LAMP CIRCUIT SHALL BE COORDINATED BETWEEN THE FACILITY, THE CONSTRUCTION CONTRACTORS AND THE EQUIPMENT INSTALLERS.
DS	DOOR INTERLOCK SWITCH IS TO PREVENT ACCIDENTAL RADIATION DOSING OF PEOPLE ENTERING THE ROOM, HOWEVER THIS CAN RESULT IN EXCESS DOSING OF THE PATIENT. ONLY IF REQUIRED BY CODE OR REQUEST BY CUSTOMER INSTALL ONE 1-POLE SINGLE THROW MOMENTARY EXPOSURE INTERLOCK SWITCH IN DOOR FRAME. SWITCH SHALL BE NORMALLY OPEN AND RATED AT 120 VAC, 15 AMPS. SWITCH SHOULD OPEN CONTACTS WHEN DOOR IS OPEN. WILL CONNECT TO SYSTEM CABINET. LISTED BUT NOT SHOWN ON PLAN.



PROVIDE WHERE INDICATED
 120 VAC 15 AMP QUAD RECEPTACLE
 NETWORK CONNECTION WITH 2 OR MORE CAT. 6 CABLE OUTLETS. CAT. 6 CABLING BY OTHERS.

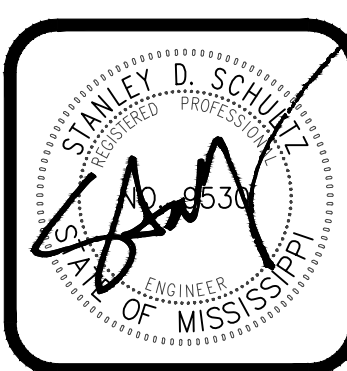
**PARTIAL FLOOR PLAN - SECOND FLOOR
 PROPOSED ELECTRICAL CONDUIT LAYOUT - X-RAY 216**

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



WIRING SCHEDULE (CONTRACTOR FURNISHED - CONTRACTOR INSTALLED)				
RUN #	FROM	TO	SIZE	COMMENTS
1	480 VAC 115 KVA SOURCE	D	VARIES	CONDUIT SIZE DEPENDS ON INCOMING WIRE SIZE. REFER TO "INCOMING WIRE SIZE" NOTES TO CONNECT AT BOTH ENDS.
2		A	VARIES	EQUIPMENT REPRESENTATIVE SHALL SUPPLY THE EC WITH THE EQUIPMENT POWER INTERCONNECT PRIOR TO EQUIPMENT INSTALLATION. EC TO CONNECT TO (A) AND LEAVE A PIGTAIL. SEE WIRING NOTES.
3		G	2" CONDUIT	2-#14AWG PLUS GROUND. EC SHALL CONNECT TO (D) AND (G). PROVIDE POWER IF NECESSARY FOR SHUNT TRIP SOLENOID.
4		H	2" CONDUIT	LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED.
5		WL	2" CONDUIT	2-#14AWG PLUS GROUND. EC SHALL CONNECT "X-RAY IN USE" WARNING LIGHT CIRCUIT PER EQUIPMENT SUPPLIER RECOMMENDATIONS AND LEAVE TAILS AT (A). EC SHALL IDENTIFY WIRES AS "X-RAY WARNING SIGN" 'L', 'L', 'G'.
6		F	2 1/2" CONDUIT	LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. CONDUIT MUST TAKE SHORTEST PATH FOR PROVIDED WIRE LENGTH.
7		E	2 1/2" CONDUIT	LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED.
8	120 VAC SOURCE	B	2" CONDUIT	FACILITY GRADE, THREE PRONG, 120VAC, 15 AMP, QUAD RECEPTACLE.
9		I	TROUGH	10" x 3 1/2" WALL AND CEILING TROUGH

Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39206 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-5313 FAX: 601-982-7685
 FINAL DRAWING S/W JOB NO: 224107



FoillWYATT
 Architects & Planners, P.L.L.C.
 SUITE 200
 1510 NORTH STATE STREET
 JACKSON, MISSISSIPPI 39201
 TEL: 601-532-3071
 EMAIL: foillw@foillw.com
 WWW: www.foillw.com

UMMC MIND CENTER & GERIATRIC CLINIC
 209-587
 UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
 JACKSON, MISSISSIPPI

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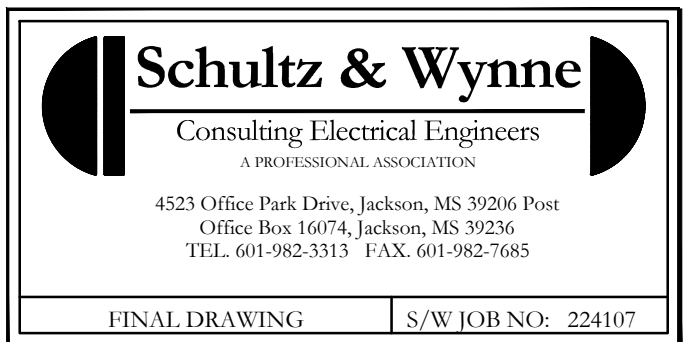
FoillWYATT
Architects & Planners, PLLC
SUITE 200
1515 NORTH STATE STREET
JACKSON, MISSISSIPPI 39201
PHONE: 601.552.3071
FAX: 601.552.3071
EMAIL: foillw@foillw.com
WWW: www.foillw.com

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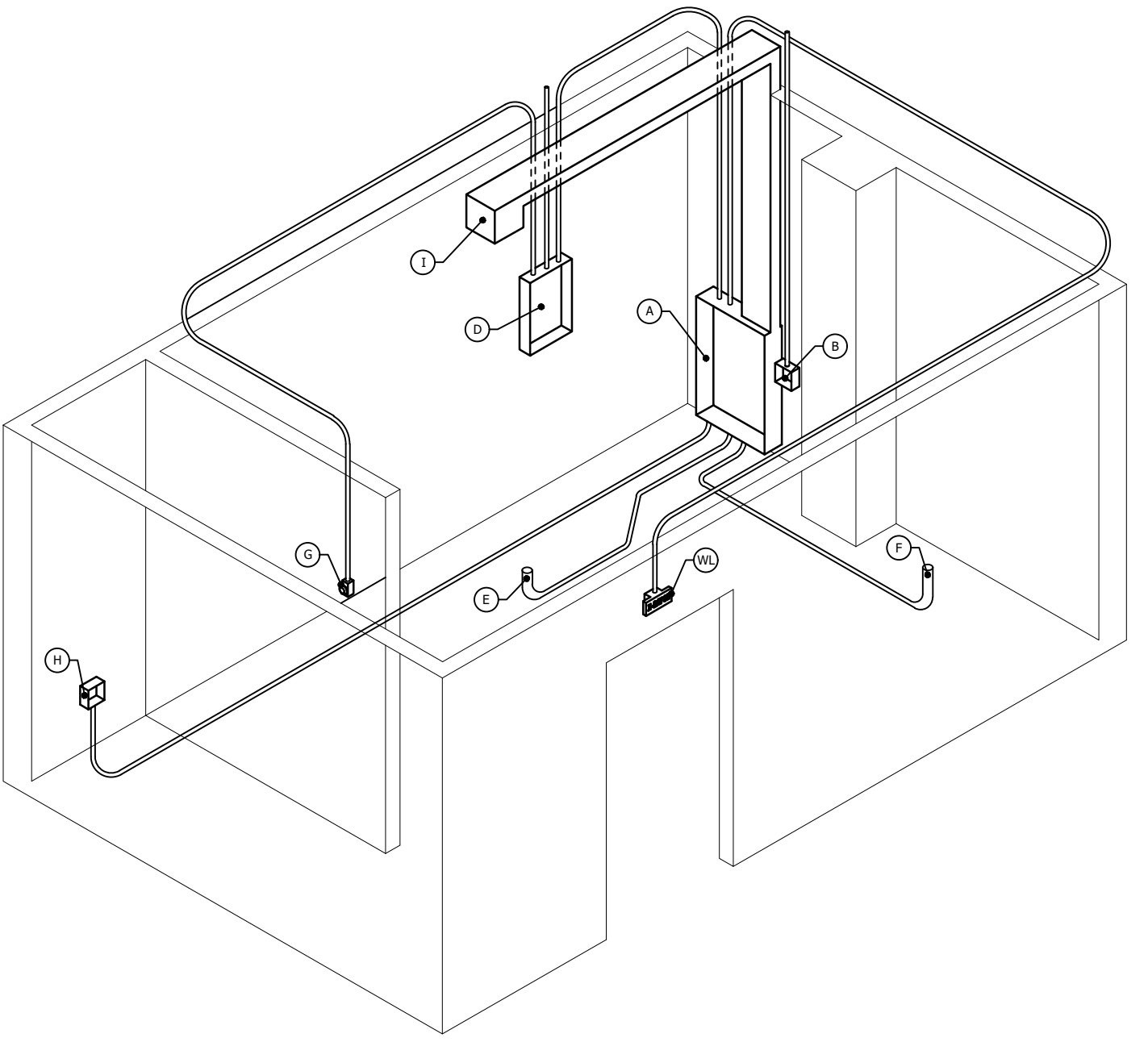
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NETWORKING NOTES:
CUSTOMER IS RESPONSIBLE FOR SUPPLYING AND INSTALLING NETWORK CONNECTIONS BETWEEN DIAGNOSTIC IMAGING EQUIPMENT AND OTHER NODE CONNECTIONS. CUSTOMER MUST SPECIFY, SUPPLY, AND INSTALL PROPER RECEPTACLES, AUI TRANSCIEVERS, CABLING, REPEATERS, ROUTERS, MODEMS, ETC. WHICH ARE CONSISTENT WITH SITE NEEDS AND NETWORK IMPLEMENTATION PRACTICES. ADDITIONALLY, THE CUSTOMER IS RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF CONDUITS AND/OR RACEWAYS FOR CONTAINMENT AND ROUTING OF NETWORK CABLES, AS DETERMINED BY SITE CONDITIONS OR BY CODE.

- POWER, ELECTRICAL, AND WIRING NOTES**
- THE ELECTRICAL SPECIFICATIONS IN THESE DRAWINGS ARE FOR THE VENDER SUPPLIED RADIOGRAPHY EQUIPMENT ONLY. VENDER IS NOT RESPONSIBLE FOR FURNISHING INFORMATION ON EQUIPMENT VENDER DOES NOT PROVIDE.
 - ALL ADDITIONAL EQUIPMENT SUPPLIERS SHALL NOT UTILIZE ANY ELECTRICAL DEVICES CALLED OUT IN THESE PLANS AS PART OF THEIR ELECTRICAL REQUIREMENTS.
 - ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL BOXES, CONDUITS, WIRE, DUCT, MAIN SWITCHES, ETC AS REQUIRED TO MAKE THE DIGITAL IMAGING SYSTEM FULLY OPERATIONAL WITHIN THE SPACE PROVIDED.
 - ALL WIRES TO BE TYPE THHN OR THW STRANDED COPPER UNLESS OTHERWISE NOTED. ALUMINUM WIRE IS NOT SUITABLE FOR X-RAY EQUIPMENT. DO NOT USE ALUMINUM WIRE IN ANY PART OF THE X-RAY SYSTEM.
 - DUCT RUNS AND CONDUIT ARE SHOWN AT A SCHEMATIC LEVEL ONLY. EXISTING BUILDING CONDITIONS WILL AFFECT DUCT AND CONDUIT ROUTES. CREATE THE MOST DIRECT ROUTE AS POSSIBLE FOR THE SHORTEST POINT TO POINT DISTANCES BETWEEN OPENINGS.
 - CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH LITTLE RADIUS, AS SPECIFIED IN NEC ART. 346-10. 90° ELBOWS ARE NOT SUITABLE FOR THIS APPLICATION.
 - ELECTRICAL CONTRACTOR TO PROVIDE 10'-0" WIRE TAILS FOR ALL WIRES UNLESS OTHERWISE NOTED. IDENTIFY AND LABEL BOTH ENDS OF ALL WIRES.
 - ELECTRICAL CONTRACTOR TO PROVIDE 120 VAC CONVENIENCE OUTLETS WITHIN 10'-0" OF ALL DIGITAL IMAGING EQUIPMENT INDICATED ON PLANS. ADDITIONAL OUTLETS MAY BE REQUIRED BY CODE. CONSULT AND CONFIRM CODE REQUIREMENTS FOR OUTLET PLACEMENT ABOVE FLOORS OR COUNTERTOPS AS NECESSARY.
 - REMOVABLE COVERS TO BE PROVIDED FOR ALL BOXES. LEAVE PULL WIRE IN ALL CONDUITS.
 - UNLESS OTHERWISE NOTED, ALL CONDUITS INDICATED ON THESE DRAWINGS TO BE CONNECTED TO THE CONTROL CABLE SIDE (LARGE AREA) OF THE TROUGH.
 - WHEN POSSIBLE THE ELECTRICAL CONTRACTOR MAY USE OR ADAPT ALL EXISTING CONDUITS, WIRES, BOXES, MAIN SWITCHES, ETC.
 - ALL BOXES, STUBBED CONDUITS, WIREMOLD, DUCT, MAIN BREAKERS, LOAD CENTERS, ETC INDICATED ON THESE DRAWINGS HAVE BEEN COORDINATED WITH THE DIGITAL IMAGING EQUIPMENT PLACEMENT. CONTACT EQUIPMENT VENDOR FOR VERIFICATION OF EQUIPMENT PLACEMENT AND CLEARANCES BEFORE MAKING ANY CHANGES TO THE LOCATIONS INDICATED ON THESE DRAWINGS.
 - ELECTRICAL POWER FOR THE DIGITAL IMAGING SYSTEMS REQUIRES VERY HIGH CURRENTS FOR EXTREMELY SHORT PERIODS OF TIME WITH THE SUPPLY VOLTAGE REMAINING STABLE. SEE ELECTRICAL SHEETS "E" IN THIS SET FOR DETAILS.
 - POWER LINES FOR THE DIGITAL IMAGING SYSTEMS TO BE DEDICATED RUNS DIRECTLY FROM THE NEAREST HOSPITAL MAIN DISTRIBUTION TRANSFORMER OR DISTRIBUTION PANEL NOT SUPPLYING "SPARKY" OR HIGH INSTANTANEOUS PEAK LOAD DEVICES (I.E.; MOTORS, ELEVATORS, AIR CONDITIONERS, CLOCK TIMERS, ETC). UNDER NO CIRCUMSTANCES SHALL ANY OTHER ELECTRICAL EQUIPMENT BE CONNECTED TO THE DIGITAL IMAGING SYSTEM POWER LINES, NOW OR IN THE FUTURE.
LINE REQUIREMENTS:
 - NO TRANSIENTS SHALL OCCUR THAT EXCEED 30% OF NOMINAL PEAK LINE VOLTAGE.
 - FOR DISCUSSION PURPOSES, TRANSIENTS SHALL BE DEFINED AS IMPULSES FROM 0.5 TO 800 MICROSECONDS.
 - POWER LINES SHALL BE MEASURED FOR TRANSIENTS WITH THE SYSTEM IN STANDBY. ELECTRICAL CONTRACTOR TO UTILIZE A DRANETZ POWER LINE ANALYZER OR EQUIVALENT.
 - VOLTAGE REGULATION: 115KVA, THREE PHASE, 480VAC, 60HZ +/- 0.5% INCOMING LINE TO MAIN DISCONNECT WITH 5% VOLTAGE REGULATION UNDER NO LOAD TO FULL LOAD CONDITIONS REQUIRED.
 - IF ANY OF THE PRECEDING SPECIFICATIONS FOR VOLTAGE REGULATION OR TRANSIENTS CANNOT BE MET, A REGULATION TRANSFORMER OR LINE CONDITIONER (DEPENDING ON THE SEVERITY OF THE PROBLEM) MAY BE USED TO MAINTAIN LINE VOLTAGE WITHIN 5% OF NOMINAL UNDER INTERMITTENT NO LOAD TO FULL LOAD CONDITIONS.
 - ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL PATIENT GROUNDING SYSTEM, AS REQUIRED BY CODE. GROUNDING SYSTEM TO COMPLY WITH NEC ARTICLE 517 AND NFPA 70.
 - GENERAL ROOM LIGHTING IS NOT PART OF THESE DRAWINGS AND IS THE RESPONSIBILITY OF THE CUSTOMER OR HIS ARCHITECT AND HIS ELECTRICAL ENGINEER. DIMMERS ARE SUGGESTED FOR USE TO CONTROL LIGHT LEVELS, PARTICULARLY IN AREAS WHERE MONITORS ARE USED.
 - THE PURCHASER'S ELECTRICAL ENGINEER OF RECORD IS RESPONSIBLE FOR SHOWING ALL COMPLIANCE TO NEC 517 AND ANY OTHER APPLICABLE CODES IN FORCE.

- GENERAL NOTES:**
- DO NOT FOLLOW WALL LINE UNLESS IT IS THE SHORTEST POSSIBLE ROUTE.
 - DRAWING NOT TO SCALE.
 - CONDUIT ROUTING IS SHOWN AS A VISUAL REFERENCE ONLY.
 - ELECTRICAL CONTRACTOR TO ROUTE CONDUITS FROM POINT TO POINT USING THE SHORTEST ROUTE POSSIBLE.
 - SEE SHEETS E800 FOR ADDITIONAL INFORMATION.



PARTIAL FLOOR PLAN - SECOND FLOOR
ELECTRICAL 3D LAYOUT VIEW
NO SCALE
N

IMPORTANT POWER NOTES:
POWER LINES FOR X-RAY SYSTEMS TO BE DEDICATED LINES RUN FROM NEAREST HOSPITAL MAIN DISTRIBUTION TRANSFORMER. UNDER NO CIRCUMSTANCES SHALL ANY OTHER ELECTRICAL EQUIPMENT BE CONNECTED TO THESE LINES NOW OR IN THE FUTURE.

LINE REQUIREMENTS:

- NO TRANSIENTS (IMPULSES FROM 0.5 TO 800 MICROSECONDS) THAT EXCEED 30% OF NOMINAL PEAK LINE VOLTAGE AS MEASURED BY A DRANETZ POWER LINE ANALYZER (MODEL 606B OR EQUIVALENT) WITH THE SYSTEM IN STANDBY SHALL OCCUR.
- TRANSIENTS EQUAL TO OR LESS THAN 30% OF NOMINAL PEAK LINE VOLTAGE SHALL NOT OCCUR MORE THAN ONCE PER HOUR OR EXCEED MORE THAN 12 IMPULSES PER 24 HOUR PERIOD.
- 115 KVA, 480 VAC, THREE PHASE, 60 HZ, INCOMING LINE TO MAIN DISCONNECT "D" WITH ± 10% VOLTAGE REGULATION UNDER INTERMITTENT, NO LOAD TO FULL LOAD CONDITIONS REQUIRED.
- ELECTRICAL GROUNDING RESISTANCE LESS THAN 10 OHMS.

IF ANY OF THE ABOVE POWER SPECIFICATIONS REGARDING LINE TRANSIENTS, NOMINAL LINE VOLTAGE, AND VOLTAGE REGULATION CANNOT BE MET, THE FOLLOWING CORRECTIVE ACTION MUST BE TAKEN:

- NOISE AND TRANSIENTS**
TRANSIENTS AND NOISE SHALL BE REMOVED BY THE USE OF A TRANSIENT SUPPRESSOR AND OR ISOLATION TRANSFORMER (EITHER FARADAY TYPE OR ULTRA-HIGH TYPE) DEPENDING ON THE SEVERITY OF THE PROBLEM.
- NOMINAL LINE VOLTAGE**
A LINE MATCHING TRANSFORMER MUST BE USED.
- VOLTAGE REGULATION**
A REGULATION TRANSFORMER OR LINE CONDITIONER DEPENDING ON THE SEVERITY OF THE ISSUE SHALL BE EMPLOYED TO MAINTAIN LINE VOLTAGE WITHIN 5% UNDER INTERMITTENT, NO LOAD TO FULL LOAD CONDITIONS.
- GROUNDING**
DEPENDING THE SEVERITY OF THE ISSUE, INCREASE GROUND RUNS TO FACILITY DISTRIBUTION OR IN SEVERE CONDITIONS, NEW GROUND ROD TO BE INSTALLED AS REQUIRED.

INCOMING POWER REQUIREMENTS FOR SAMSUNG 80 KW GENERATOR
INCOMING VOLTAGE, DISTRIBUTION TRANSFORMER, WIRE SPECIFICATIONS, AND MAIN CIRCUIT BREAKER SPECIFICATIONS TO BE SELECTED BASED ON FACILITY POWER SOURCE AVAILABLE. IF PREVAILING CODE REQUIRES LARGER WIRE SIZE, ADJUST WIRE AND CONDUIT ACCORDINGLY.

MAX OUTPUT	80KW
MAINS VOLTAGE RATING, PHASE, FREQUENCY	480V THREE PHASE, 60Hz
MAIN FACILITY DIST XFMR	115 KVA
MAINS VOLTAGE RANGE	±10%
MINIMUM DISTRIBUTION TRANSFORMER RATING	MINIMUM 125% OF OUTPUT RATING
DISCONNECT TO GENERATOR WIRE SIZE	#2
APPARENT MAINS RESISTANCE	0.15 Ω
GROUND WIRE SIZE	#6
STANDBY LINE CURRENT	1A
MOMENTARY LINE CURRENT	140A
GENERATOR SERVICE RATING (BREAKER)	100A (480VAC)
MINIMUM INPUT WIRE SIZE FOR DISTANCE FROM DISTRIBUTION TO BREAKER	#4 / 50 FEET, #2 / 100 FEET, #00 / 200 FEET

NOTE: GROUND WIRE SIZE TO BE #6 AWG
MAINS VOLTAGE RANGE ± 10%
ALL WIRES TO BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT, UNLESS OTHERWISE NOTED. DO NOT USE ALUMINUM WIRE!
NOT TO EXCEED 200' LENGTH FROM DISTRIBUTION TRANSFORMER TO ROOM MAIN BREAKER.
THREE PHASE POWER CONFIGURATION TO CONSIST OF THREE "HOT" WIRES AND ONE "EARTH GROUND"

CONTRACTOR TO SUPPLY AND INSTALL 4 WIRES WITH COPPER LUGS, 1 QUANTITY #6 WIRE AND 3 QUANTITY #2 FLEXIBLE WELDING TYPE WIRE STRANDED 600 VOLT RATED FROM MAIN CIRCUIT BREAKER "D" TO X-RAY GENERATOR CABINET "C". EC TO LEAVE 5 FOOT PIGTAIL AT GENERATOR CABINET JUNCTION BOX. NOT TO EXCEED 15 FEET. IF WIRE EXCEEDS 15 FEET, INCREASE WIRE SIZE ACCORDINGLY.

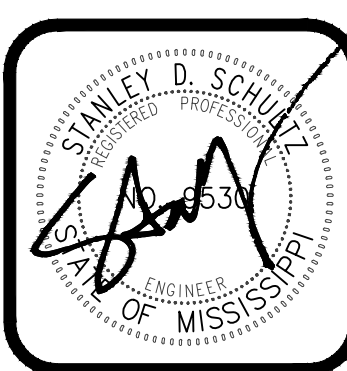
SPECIAL GROUNDING NOTE:
SOME STATE AND LOCAL CODES REQUIRE A SPECIAL GROUNDING SYSTEM IN DIAGNOSTIC ROOMS. CONSULT GOVERNING ELECTRICAL CODE AND APPROPRIATE FACILITY ADMINISTRATION PERSONNEL TO DETERMINE AREAS REQUIRING SUCH A SYSTEM. SYSTEM TO BE DESIGNED AND INSTALLED BY CONTRACTOR, OR OTHER PROFESSIONAL QUALIFIED FOR SUCH EQUIPMENT. INCLUDE ALL APPROPRIATE OBJECTS AND FIXTURES OTHER THAN X-RAY EQUIPMENT.

LEGEND

	FIRE ALARM SYSTEM AUDIBLE AND VISUAL ALARM DEVICE, MOUNT CENTER LINE UP 80" ABOVE FINISHED FLOOR OR 6" BELOW CEILING WHICHEVER IS LOWER.
	FIRE ALARM SYSTEM ALARM LIGHT, MOUNT CENTER LINE UP 80" ABOVE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
	FIRE ALARM SYSTEM SMOKE DETECTOR, PHOTO ELECTRIC TYPE, MOUNT ON CEILING.
	FIRE ALARM SYSTEM SMOKE DETECTOR WITH SENSOR AND AUDIBLE ALARM BASE, PHOTO ELECTRIC TYPE, SURFACE MOUNT ON CEILING. PROVIDE CARBON MONOXIDE DETECTOR IN BASE OF DETECTOR.
	CONNECTION TO SECURITY DOOR. SEE DETAIL ON SHEET E600.
	WIRELESS ACCESS POINT OUTLET. DEVICE AND CABLING BY OTHERS.
	OCCUPANCY SENSOR, CEILING MOUNTED.
	DUPLEX GROUNDABLE RECEPTACLE FOR REFRIGERATOR, 120 VOLTS, NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
	DUPLEX GROUNDABLE RECEPTACLE WITH USB CHARGING, 120 VOLTS, NEMA 5-20R, CIRCUIT NUMBER. SEE SPECIFICATIONS.
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER. MOUNT CENTER LINE UP 7'-6".
	COMPUTER OUTLET AND PLATE, 3/4"C OR SIZE AS NOTED CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING. MOUNT CENTER LINE UP 7'-6".
	COMPUTER OUTLET AND PLATE, 3/4"C OR SIZE AS NOTED CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING. MOUNT CENTER LINE UP 4" ABOVE COUNTER/BACKSPLASH.
	INDOOR SECURITY SYSTEM CAMERA OUTLET.
	OUTDOOR SECURITY SYSTEM CAMERA OUTLET.
	SURGE PROTECTION DEVICE. SEE SPECIFICATIONS.
	TELEVISION SYSTEM OUTLET, 3/4"C. STUBBED UP ABOVE ACCESSIBLE CEILING. MOUNT 7'-6" A.F.F. CABLING BY OTHERS.
	EMERGENCY CALL BOX. VERIFY LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
	EMERGENCY CALL BOX CONTROL PANEL.
	CONNECTION TO AUTOMATIC POWER DOOR.
	DOOR OPERATED PUSH BUTTON. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
	CONNECTION TO FIRE/SMOKE DAMPER.
	EXISTING UNDERGROUND FIBER OPTIC CABLE.
	EXISTING OVERHEAD ELECTRICAL SERVICE.
	EXISTING UNDERGROUND ELECTRICAL SERVICE.
	EXISTING UNDERGROUND BRANCH FEEDER.
	CONNECTION VAV BOX.
	SPEAKER OUTLET LOCATION, MOUNTED ON CEILING. SPEAKER AND CABLING BY OTHERS.
	MANUAL TRANSFER SWITCH
	CONNECTION TO MOTORIZED GATE.
	CONNECTION TO SECURITY DOOR. SEE DETAIL ON SHEET E-11.
	CONNECTION TO CARD READER.
	CONNECTION TO EMERGENCY GENERATOR REMOTE ANNUNCIATOR.
	CABLE TRAY SHALL BE INSTALLED AND ROUTED PER PLANS, PLAN DETAIL, AND SPECIFICATIONS. COORDINATE CABLE TRAY LOCATIONS WITH OTHER TRADES TO BE ACCESSIBLE AT COMPLETION OF PROJECT.
	J HOOKS SHALL BE INSTALLED AND ROUTED PER PLANS AND SPECIFICATIONS. COORDINATE J HOOK LOCATIONS WITH OTHER TRADES TO BE ACCESSIBLE AT COMPLETION OF PROJECT.
	POKE-THRU FLOOR BOX, FOR POWER AND COMMUNICATIONS. FLUSH TYPE, 6" DIAMETER WITH PLUG-INS BELOW FLOOR LEVEL AND SOLID HINGED DOOR.
	SPEAKER OUTLET WITH 8" SPEAKER, MOUNT FLUSH IN CEILING.
	CONNECTION TO ELECTRIC HAND DRYER. VERIFY LOCATION AND CONNECTION METHOD PRIOR TO ROUGH-IN.

LEGEND

	BRANCH CIRCUIT (CONDUIT AND WIRING) CONCEALED ABOVE CEILING OR IN WALL, NUMBER OF CONDUCTORS. (---) INDICATES GREEN GROUNDING CONDUCTOR SIZED PER BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
	BRANCH CIRCUIT (CONDUIT AND WIRING) CONCEALED IN OR UNDER FLOOR SLAB AS DIRECTED, NUMBER OF CONDUCTORS.
	BRANCH CIRCUIT (CONDUIT AND WIRING) EXPOSED ON CEILING ONLY, NUMBER OF CONDUCTORS.
	BRANCH CIRCUIT (CONDUIT AND WIRING) EXPOSED IN FLEXIBLE CONDUIT, NUMBER CONDUCTORS.
	BRANCH CIRCUIT (CONDUIT AND WIRING) EXPOSED IN LIQUIDTIGHT FLEXIBLE CONDUIT, NUMBER OF CONDUCTORS. HOME RUN, PANEL AND CIRCUIT DESIGNATION, NUMBER OF CONDUCTORS.
	TELEPHONE SYSTEM CONDUIT CONCEALED OR EXPOSED PER BRANCH CIRCUIT SYMBOL, SIZE.
	TELEPHONE SYSTEM HOME RUN, SIZE.
	TELEVISION SYSTEM CONDUIT, CONCEALED OR EXPOSED PER BRANCH CIRCUIT SYMBOLS, 3/4" OR AS NOTED.
	FIRE ALARM SYSTEM CONDUIT CONCEALED OR EXPOSED PER BRANCH CIRCUIT SYMBOL, SIZE.
	COMPUTER SYSTEM CONDUIT CONCEALED OR EXPOSED PER BRANCH CIRCUIT SYMBOL, SIZE.
	COMPUTER SYSTEM HOME RUN, SIZE.
	FIBER OPTICS SYSTEM CONDUIT CONCEALED OR EXPOSED PER BRANCH CIRCUIT SYMBOL, SIZE.
	CEILING OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	WALL BRACKET OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	FLUORESCENT FIXTURE WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	RECESSED FLUORESCENT FIXTURE WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	THROUGH ANY SYMBOL INDICATES BLANK UP, REMOVE OR ABANDON AS REQUIRED; THROUGH ANY CONDUIT INDICATES REMOVE IF ACCESSIBLE, PULL OUT CONDUCTORS IF INACCESSIBLE.
	HATCH LINES DENOTES LIGHTING ON EMERGENCY POWER CIRCUIT.
	LIGHTING STANDARD, AREA AND/OR STREET LIGHTING SYSTEM, FIXTURE SYMBOL AND CIRCUIT NUMBER.
	LIGHTING STANDARD, DOUBLE HEAD, AREA AND/OR STREET LIGHTING SYSTEM, FIXTURE SYMBOL AND CIRCUIT NUMBER.
	TELEPHONE BACKBOARD, SIZE AS NOTED, 3/4" PLYWOOD, LONG DIMENSION VERTICAL. TERMINATE ALL TELEPHONE HOMERUNS AT THIS POINT AND BUSH.
	COMPUTER OUTLET AND PLATE, 3/4"C OR SIZE AS NOTED CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING.
	SURFACE JUNCTION BOX, SIZE AND MOUNTING HEIGHT AS NOTED.
	FLUSH JUNCTION BOX, SIZE AND MOUNTING HEIGHT AS NOTED.
	JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 120 VOLT CIRCUITRY.
	JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 277 VOLT CIRCUITRY.
	JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 120 VOLT EMERGENCY CIRCUITRY.
	JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 277 VOLT EMERGENCY CIRCUITRY.
	SWITCH, SINGLE POLE FLUSH TUMBLER. MOUNT CENTER LINE UP 48", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	SWITCH, THREE-WAY FLUSH TUMBLER. MOUNT CENTER LINE UP 48", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	SWITCH, FOUR-WAY FLUSH TUMBLER. MOUNT CENTER LINE UP 48", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	MANUAL MOTOR SWITCH, SINGLE POLE, FLUSH MOUNTING. MOUNT CENTER LINE UP 48", UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
	TIME SWITCH, MOUNTED 4'6" ABOVE FLOOR.
	MAGNETIC CONTACTOR, NUMBER OF POLES, AMPS.
	PHOTO-ELECTRIC CONTROL SENSING CELL, AIM TO NORTH.
	PHOTO-ELECTRIC CELL CONTROL RELAY.
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER.
	DUPLEX GROUNDABLE WEATHERPROOF CONVENIENCE OUTLET, 120 VOLTS, NEMA 5-20R, MOUNT IN TYPE FD BOX, GROUND FAULT INTERRUPTER TYPE.
	TELEVISION SYSTEM OUTLET, 3/4"C. STUBBED UP ABOVE ACCESSIBLE CEILING.
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER. GROUND FAULT INTERRUPTER TYPE.
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER. GROUND FAULT INTERRUPTER TYPE.
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, CIRCUIT NUMBER, MOUNT CENTER LINE UP 4" ABOVE COUNTER/BACKSPLASH.
	DOUBLE DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, SEE SPECS. FOR NUMBER OF CAPS (NEMA 5-15P) TO BE FURNISHED, CIRCUIT NUMBER.
	30 AMP, 120/208 VOLT RECEPTACLE FOR DRYER
	50 AMP, 120/208 VOLT RECEPTACLE FOR OVEN.
	POWER CONNECTION SCHEDULE MARK. SEE POWER CONNECTION SCHEDULE.
	TRANSFORMER, DRY TYPE, KVA.
	CONNECTION TO VAV BOX, VAV BOX PROVIDED UNDER MECHANICAL SECTION. PROVIDE SINGLE POLE SWITCH (\$) IN NEMA 1 ENCLOSURE ADJACENT TO VAV FOR DISCONNECT SWITCH.
	LIGHTING AND SMALL POWER PANEL, SURFACE MOUNTING, 250 VOLT SYSTEM.
	LIGHTING AND SMALL POWER PANEL, SURFACE MOUNTING, 480 VOLT SYSTEM.
	POWER PANEL, SURFACE MOUNTING.
	DISTRIBUTION PANEL, SURFACE MOUNTING.
	AUTOMATIC TRANSFER SWITCH.
	EMERGENCY ENGINE GENERATOR.
	FIRE ALARM SYSTEM CONTROL CABINET, MOUNT CENTER LINE 4'6", ROUTE ALL FIRE ALARM HOME RUNS TO THIS POINT, NUMBER OF ZONES.
	FIRE ALARM SYSTEM 80 CHARACTER LCD REMOTE ANNUNCIATOR WITH ALPHA-NUMERIC DEVICE AND ZONE INDICATION. FLUSH MOUNT WITH CENTER LINE UP 4'6" ABOVE FLOOR.
	FIRE ALARM SYSTEM THERMAL DETECTOR UNIT, MOUNT ON CEILING, 135' RATING UNLESS OTHERWISE NOTED (200').
	FIRE ALARM SYSTEM MANUAL STATION, MOUNT CENTER LINE UP 48".
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM PIV VALVE SUPERVISORY UNIT.
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM OSY VALVE SUPERVISORY UNIT.
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM TAMPERS.
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM TAMPERS.
	TWO (2) FIRE ALARM SYSTEM PHOTO ELECTRIC SMOKE DETECTORS, PLENUM TYPE WITH SAMPLING TUBES AND REMOTE ALARM INDICATOR LIGHTS. MOUNT ONE (1) DETECTOR IN SUPPLY PLENUM AND MOUNT ONE (1) DETECTOR IN RETURN PLENUM, WHERE DIRECTED BY ARCHITECT.



FoillWYATT
 Architects & Planners, P.L.L.C.
 SUITE 200
 1515 NORTH STATE STREET
 JACKSON, MISSISSIPPI 39201
 TELEPHONE: 601.552.9771
 FAX: 601.552.9771
 EMAIL: info@foillwyatt.com
 WWW: www.foillwyatt.com

UMMC MIND CENTER & GERIATRIC CLINIC
 209-587
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
 JACKSON, MISSISSIPPI

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 J.G.H.

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 of

Schultz & Wynne
 Consulting Electrical Engineers
 A PROFESSIONAL ASSOCIATION
 4525 Office Park Drive, Jackson, MS 39216 Post
 Office Box 16074, Jackson, MS 39216
 TEL: 601-982-3313 FAX: 601-982-7685
 FINAL DRAWING S/W JOB NO: 224107