

ADDENDUM No. 1

Project Name:	Owner: City of Dexter Project Name: Dexter City Hall Renovations	Addendum No: One (1)
Project Number:	21-113	Issue Date: January 21, 2022
Project Location:	3515 Broad St. Dexter, Michigan 48130	

This Addendum forms a part of the above described Contract Documents and supersedes, supplements or clarifies parts thereof to the extent defined by the terms set forth in this Addendum.

This Addendum consists of (5) typed pages and the following (33) attachments:

Pre-Bid Sign-in Sheet 1-7-22

Geotechnical Report

Specification Sections: Advertisement for Bids, 003100, 011000, 012300 (All pages).

Drawings: **Architectural:** A0-03, A0-04, A2-01, A3-02, A3-03, A3-04, A3-05, A3-10, A3-22, A4-02, A4-03, A4-04, A5-10, A6-01, A6-03, A8-01.

Mechanical: M0-01, M1-00, M1-01, M1-02.

Electrical: E0-02, E0-03, E0-04, ED-01, ED-02, E1-01, E1-02.

CLARIFICATIONS:

ITEM CL1 Contractor's cost for any required Builder's Risk Insurance will be covered by the City of Dexter.

SPECIFICATIONS:

- ITEM S1** Advertisement for Bid (Revised and Re-Issued)
A. Revise bid submission from electronic to hard copy paper.
B. Revise delivery method from email to mail or delivery to City Hall 8140 Main St as noted.
- ITEM S2** 003100 Bid Form (Revised and Re-Issued)
A. Change address to send bid to as noted.
B. Add Additive Alternate #9 as noted.
- ITEM S3** 011000 Summary (Revised and Re-Issued)
A. Correct project location address as noted.
- ITEM S4** 012300 Alternates (Revised and Re-Issued)
A. Revise Part 3.1 F to read as no work for the deductive alternate No. 6 as noted.
B. Revise Part 3.1G to read as no work for the deductive alternate No. 7 as noted.
C. Revise Part 3.1 H to read as no work for the deductive alternate No. 8 as noted.
D. Add Mechanical Alternate M1 as Add Alternate No. 9.
- ITEM S5** 057300 Decorative metal Railings (Revised but not Re-Issued)
A. PART 1 GENERAL 1.1A Delete "Stainless" from steel decorative railings description.
- ITEM S5** 074113 Standing Seam Metal Roofing (Revised but not Re-Issued)
A. Add DMI, Dimensional Metals, Inc. to part 2.2B 1 as noted.

ARCHITECTURAL DRAWINGS:

- ITEM A1** A0-00 Cover Sheet (Revised but Not Re-Issued)
A. Added sheet A0-04 to drawing index
B. Added sheet A8-01 to drawing index.
C. Describe drawing revision
- ITEM A2** A0-03 Schedules, Door, Frame, & Wall Types (Revised & Re-Issued)
A. Updated door schedule with head, jamb, and threshold details.
B. Updated door schedule to more clearly indicate what doors are existing to remain.
C. Modified wall type 4 to indicate a solid surface topper.
D. Added wall type 1E to fulfill need for walls with no ceiling at top.
E. Added door frame type F4, and applied to door 118.
F. Door frames F2 & F3 are now aluminum storefront, not wood.
G. Added horizontal mullion to frame type F2.
H. Added note for door type C for basis of design.
I. Updated floor & base type for rooms 129 & 206.
J. Added room finish keynote 4, and applied to room 129.
K. Added door keynote 1 to legend, and applied to doors 101, 102, & 118.
L. Added general details for interior signage.
M. Updated door 104 to be 8'-4" tall, rather than 7'-0".
- ITEM A3** A0-04 Typical Opening Details (Revised & Re-Issued)
A. New sheet.
- ITEM A4** A1-02 1st Floor Demolition Plan – Area A (Revised But Not Re-Issued)
A. Updated keynote 3 to call out window unit to be salvaged and returned to owner.
B. Updated keynote on plan to call out 15, rather than 16.
- ITEM A5** A1-03 1st Floor Demolition Plan – Area B (Revised But Not Re-Issued)
A. Added keynote 16 to legend and applied at two locations on plan.
- ITEM A6** A1-10 1st Floor Demolition Ceiling Plan – Area A (Revised But Not Re-Issued)
A. Updated ceiling mounted light fixture to remain, rather than be demolished.
- ITEM A7** A1-11 1st Floor Demolition Ceiling Plan – Area B (Revised But Not Re-Issued)
A. Added keynote 5 to keynote legend and applied to plan at column to be removed as part of deduct alternate #3.
- ITEM A8** A1-12 1st Floor Demolition Ceiling Plan – Area C (Revised But Not Re-Issued)
A. Change keynotes on plan to 4, to indicate existing junction boxes and wiring is to remain for new fixtures.
- ITEM A9** A2-01 Architectural Site Plan (Revised & Re-Issued)
A. Adjusted location of monument sign.
B. Added monument sign elevation and section.
- ITEM A10** A3-01 Basement Floor Plan – Area A (Revised But Not Re-Issued)
A. Added sump in elevator pit and associated keynote.
- ITEM A11** A3-02 1st Floor Plan – Area A (Revised & Re-Issued)
A. Added general note referring to A0-04 for floor transition details.

- B. Adjusted location of wall at Hoteling 103 to align with the south side of the new beam.
- C. Increased width of wall between service desk and door 109 to align with other walls in the area.
- D. Removed "V.I.F." from 5'-0" dimension at west end of Corridor 110.
- E. Identified which ACCU's at exterior were existing, and relocated. Added associated keynotes 17 & 18.
- F. Flipped door 104 and sidelight to ADA requirements.
- G. Updated keynote 14 to indicate supported slab, and to refer to structural details.
- H. Added note at existing walk to label as pitched to existing drains, and associated keynote 19.
- I. Added floor finish callout between new and existing wood floors, near elevator.
- J. Added interior elevation for Conference Room 104.

ITEM A12 A3-03 1st Floor Plan – Area B (Revised & Re-Issued)

- A. Adjusted location of two columns that are part of deduct alternate #3, to be 1'-6" away from the exterior walls, rather than 2'-0".

ITEM A13 A3-04 1st Floor Plan – Area C (Revised & Re-Issued)

- A. Removed handrail at landing and replace with two risers.

ITEM A14 A3-05 2ND Floor Plan – Area A (Revised & Re-Issued)

- A. Updated building section tags to read details 4 & 5
- B. Updated stair handrails to rotate 90 degrees at top of stairs to avoid protruding into corridor space.
- C. Added floor finish callout between new and existing wood floors.
- D. Added callout for elevator control buttons, and associated keynote 20.
- E. Added dimension to located new window between Office 209 & Office 210, as part of deduct alternate #5.

ITEM A15 A3-10 Plan Details (Revised & Re-Issued)

- A. Updated detail 1 to remove batt insulation @ interior wall, added callout for downspout, and updated door / sidelight layout to match plan updates.
- B. Updated detail 2 to show gyp bd covering southeast corner of timber column, and updated door / sidelight layout to match plan updates.
- C. Updated detail 4 to add clarifying dimension.
- D. Updated detail 7 to show tension cable guard system, rather than steel posts.

ITEM A16 A3-22 Roof Plan – Area A (Revised & Re-Issued)

- A. Updated building section tag near vestibule to read detail 4, rather than 3.
- B. Added building section tag through Reception 111, Elev Lobby 109, and stairs to match floor plan sheets.
- C. Added callout for ridge cap at elevator, and associated keynote 8.

ITEM A17 A4-02 1st Floor Reflected Ceiling Plan – Area A (Revised & Re-Issued)

- A. Adjusted wall location for hoteling area to match update made on floor plan.
- B. Add surface mounted ceiling fixture @ existing low ceiling in Hoteling 103.
- C. Removed ceiling patch in Archive Storage 115, due to both lights now being existing to remain.
- D. Updated keynote 9 to clarify new wood beam finish is to match existing timber.
- E. Updated ceiling height of soffit above counter.

ITEM A18 A4-03 1st Floor Reflected Ceiling Plan – Area B (Revised & Re-Issued)

- A. Added callout for new beam under deduct alternate #3, and associated keynote 12.

ITEM A19 A4-04 2nd Floor Reflected Ceiling Plan – Area A (Revised & Re-Issued)

- A. Updated building section tag @ vestibule area to read detail 4, rather than 3.
- B. Added building section cut line through elevator lobby and stair area to match other plans.
- C. Updated lighting layout for elevator lobby and stair area.

- ITEM A20** A5-01 Exterior Elevations (Revised But Not Re-Issued)
- A. Updated elevations 1-3 to show new windows matching style of existing.
 - B. Updated elevation 5 to show exterior light fixture, and added associated keynote 21.
 - C. Updated elevation 5 door frame to show mullions, matching frame schedule on A0-03.
 - D. Updated notes on elevation 1 to change deduct alternates 1 to 4, and 2 to 5.
- ITEM A21** A5-10 Building Sections (Revised & Re-Issued)
- A. Filled out missing tag information on section 5.
 - B. Extended section 4 to show supported slab in front of vestibule.
 - C. Updated note on section 3 to refer to deduct alternate #6, rather than add alternate # 3.
 - D. Removed door from section 2.
 - E. Now showing drain tile on both sides of elevator pit on section 2.
 - F. Updated stair railing to show tension cable system, rather than vertical bars, on section 1.
 - G. Added detail of hoteling area per updated plan changes.
- ITEM A22** A6-01 Wall Sections (Revised & Re-Issued)
- A. Updated section 1 to show new beam as timber.
 - B. Updated notes on sections 1 & 4 to call out 3/8" tempered glass, rather than 1/4"; and that neoprene gasket to go all around.
 - C. Updated elevation target on section 1 to clarify top of wall should align with existing timbers.
 - D. Updated note on section 2 @ upper-level window to clarify that work is part of deduct alternate #5, and top of window should align with existing windows.
 - E. Updated note on section 3 to clarify that glass should be safety glass due to short distance between stair landing and window stool.
 - F. Updated floor detail @ elevator on section 5.
- ITEM A23** A6-02 Wall Sections (Revised But Not Re-Issued)
- A. Added callout for tackboard / announcement case location on section 2. This item is by owner, N.I.C.
 - B. Updated sections 1 & 2 to show aluminum storefront, rather than wood framing.
- ITEM A24** A6-03 Wall Sections (Revised & Re-Issued)
- A. Updated section 1 to show guardrail with tension cable system, rather than steel bars.
 - B. Updated section 2 to show step down to existing floor level.
- ITEM A25** A6-10 Section Details (Revised But Not Re-Issued)
- A. Updated note on detail 7 to indicate 3/8" tempered glass, rather than 1/4"; and that neoprene gasket to go all around.
 - B. Updated detail 7 to show double angle, rather than channel.
 - C. Updated floor framing / masonry on detail 9 to match structural drawings.
 - D. Updated details 12-14 to show aluminum storefront system, rather than wood frames.
- ITEM A26** A8-01 Interior Elevations (Revised & Re-Issued)
- A. Updated glass separation in elevation 1 to show storefront system.
 - B. Updated wall location to match plan changes on elevation 1.
 - C. Updated elevation 2 to show storefront system.
 - D. Updated elevation 2 wall layout to match plan updates.
 - E. Updated wall locations on elevation 3 to match plan changes.
 - F. Updated glass separation in elevation 3 to show storefront system.
 - G. Added elevation 4.

MECHANICAL DRAWINGS:

- ITEM M1** M0-01 (Revised & Re-Issued)
A. Revised mechanical add alternate note from "Alternate M1" to "Add Alternate #9". Revised note to reference drawing keyed notes and also added approved manufacturers for split furnace systems.
B. Added "Mechanical Tagging & Associations" notes to address retagging of existing equipment and determining associations between indoor furnaces and outdoor air cooled condensing units.
- ITEM M2** M1-00 (Revised & Re-Issued)
A. Added "Mechanical Add Alternate #9" to keyed note 2.
- ITEM M3** M1-01 (Revised & Re-Issued)
A. Revised keyed note 3 and added keyed note 4 & 5.
B. Added General Note 3.
- ITEM M4** M1-02 (Revised & Re-Issued)
A. Added "Mechanical Add Alternate #9" to keyed note 2.

ELECTRICAL DRAWINGS

- ITEM E1** E1-01 (Revised & Re-Issued)
A. Add provisions for ground mounted sign.
B. Adjusted lighting at deleted elevator lobby closet.
C. Add surface mounted fixture type to match existing fixtures.
D. Add LED replacement lamps for all existing and relocated surface mount light fixtures.
E. Add type L9 light fixture.
F. Adjust switching in Lobby 102 and Conference room 104.
G. Adjust lighting in Archive Storage 115.
H. Denoted light fixture type in Council 124 for clarification.
I. Add wall mounted lighting in Open Office 129.
J. Delete existing wall mount outdoor fixtures.
- ITEM E2** E1-02 (Revised & Re-Issued)
A. Denoted light fixture type in west Conference room.

****END OF ADDENDUM #1****



Report on Geotechnical Investigation

Proposed Dexter City Hall Addition 3515 Broad Street Dexter, Michigan 48130

Latitude 42.341011 ° N
Longitude -83.884004 ° W

Prepared for:

PARTNERS in Architecture, PLC
65 Market Street, Suite 200
Mount Clemens, Michigan 48043

G2 Project No. 213562
September 15, 2021



September 15, 2021

Mr. Stephen Lechman
Senior Project Manager
PARTNERS in Architecture, PLC
65 Market Street, Suite 200
Mount Clemens, Michigan 48043

Re: Report on Geotechnical Investigation
Proposed Dexter City Hall Addition
3515 Broad Street
Dexter, Michigan 48130
G2 Project No. 213562


Dear Mr. Lechman:

We have completed the geotechnical investigation for the proposed elevator and stair addition to the future Dexter City Hall in the City of Dexter, Michigan. This report presents the results of our observations and analysis and our recommendations for subgrade preparation, foundation design, and construction considerations as they relate to the geotechnical conditions on site.

We appreciate the opportunity to be of service to PARTNERS in Architecture, PLC and look forward to discussing the recommendations presented. In the meantime, if you have any questions regarding the report or any other matter pertaining to the project, please call us.

Sincerely,

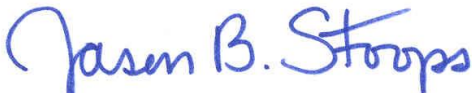
G2 Consulting Group, LLC



Ethan T. Talabo, E.I.T.
Staff Engineer



Michael G. Dagher, P.E.
Project Engineer



Jason B. Stoops, P.E.
Associate / Project Manager

ETT/MGD/JBS/jbs

Enclosures



EXECUTIVE SUMMARY

We understand the project consists of constructing an elevator and stair addition adjacent to the existing one-to-two-story building located at 3515 Broad Street in the City of Dexter, Michigan. Limited information about the proposed addition was available at the time of this report; however, we anticipate the proposed addition will be a two-story structure and will be constructed along the south face of the existing building. At the time of this report, information related to structural loading conditions were unavailable. However, for evaluation purposes, it will be assumed that wall loads range from 2 to 4 kips per lineal foot.

Approximately 6 inches of sandy topsoil is present at the ground surface within soil boring B-01. Medium compact sand fill with intermixed pea gravel underlies the topsoil and extends to an approximate depth of 3 feet. Medium compact to compact native granular soils, consisting of sand and gravelly sand, underlie the sand fill and extends to the explored depth of 20 feet. No measurable groundwater was encountered during or upon completion of drilling operations. Fluctuations in perched and long-term groundwater levels should be anticipated due to seasonal variations and following periods of prolonged precipitation.

At the start of earthwork operations, any existing topsoil and vegetation should be removed in their entirety from the proposed footprint of the elevator and stair addition. Following removal of the topsoil and vegetation, the exposed subgrade should be evaluated for stability. It will not be feasible to proof-compact the exposed subgrade, due to the anticipated depth of the elevator pit for the proposed addition. Therefore, the exposed subgrade should be visually evaluated, or evaluated using a dynamic cone penetrometer (DCP). If the exposed subgrade soils are deemed unstable, the unstable soils should be removed and replaced with engineered fill, or improved with additional compaction. We do not recommend utilizing heavy-duty vibrating compaction equipment adjacent to the existing building foundations, such as a vibratory roller or hoe-pack.

Based upon the existing subgrade conditions and anticipated loading conditions, we recommend the proposed addition be supported on conventional strip and spread footings. We recommend a net allowable bearing capacity of 3,000 pounds per square foot (psf) may be used for design of foundations bearing on the medium compact sand. The foundation bearing depth of the adjacent existing structures should be confirmed prior to the construction of the proposed addition. Any foundations installed immediately adjacent to the existing buildings should bear at the same elevation as the existing foundations. In no case should excavations extend below the level of adjacent structures unless underpinning is planned.

Given the granular nature of the soils, we anticipate caving and sloughing of the strip and spread footing excavations may occur. Therefore, the contractor should be prepared to over excavate and form the foundations. The sides of the foundations should be constructed straight and vertical to reduce the risk of frozen soil adhering to the concrete and raising the foundation.

No groundwater was encountered within the soil borings for the proposed addition. Therefore, we do not anticipate that any significant groundwater accumulations will occur in construction excavations at the depths anticipated for this project. In general, we expect accumulations of surface runoff water will be controllable with pumping from properly constructed sumps.

Do not consider this summary separate from the entire text of this report, with all the conclusions and qualifications mentioned herein. Details of our analysis and recommendations are discussed in the following sections and in the Appendix of this report.



PROJECT DESCRIPTION

We understand the project consists of constructing an elevator and stair addition adjacent to the existing one-to-two-story building located at 3515 Broad Street in the City of Dexter, Michigan. Limited information about the proposed addition was available at the time of this report; however, we anticipate the proposed addition will be a two-story structure and will be constructed along the south face of the existing building. At the time of this report, information related to structural loading conditions were unavailable. However, for evaluation purposes, it will be assumed that wall loads range from 2 to 4 kips per lineal foot.

When information related to structural loading conditions becomes available, G2 Consulting Group, LLC (G2) should be notified so we can review the recommendations presented herein. The purpose of our exploration is to determine and evaluate the general subsurface conditions at the site and to develop recommendations for subgrade preparation, foundation design, below-grade-walls, and construction considerations as they relate to the geotechnical conditions on site.

SCOPE OF SERVICES

The field operations, laboratory testing, and engineering report preparation were performed under direction and supervision of a licensed professional engineer. Our services were performed according to generally accepted standards and procedures in the practice of geotechnical engineering in this area. Our scope of services for this project is as follows:

1. We drilled one (1) soil boring adjacent to the existing building. Soil boring B-01 was performed within the vicinity of the proposed elevator addition extending to a depth of 20 feet below existing grade.
2. We performed laboratory testing on representative samples obtained from the soil boring. Laboratory testing included visual engineering classification in general conformance with the Unified Soil Classification System.
3. We prepared this engineering report. The report includes recommendations regarding the soil bearing capacity, estimated settlement, below-grade walls, and construction considerations related to construction of the proposed elevator addition.

FIELD OPERATIONS

PARTNERS in Architecture, PLC, in conjunction with G2, selected the depth and location of the soil boring. The boring location was located in the field by a G2 representative using conventional taping methods from known surface features prior to our drilling operations. The approximate soil boring location is shown on the Soil Boring Location Plan, Plate No. 1. The ground surface elevation at the boring location was estimated from Google Earth.

The soil boring was drilled using a truck-mounted rotary drilling rig. Continuous flight 2-1/4 inch inside diameter hollow-stem augers were used to advance the borehole to the explored depth. Soil samples were obtained at intervals of 2-1/2 feet within the upper 10 feet and at intervals of 5 feet thereafter. The samples were obtained by the Standard Penetration Test method (ASTM D 1586), which involves driving a 2-inch diameter split-spoon sampler into the soil with a 140-pound weight falling 30 inches. The sampler is generally driven three successive 6-inch increments with the number of blows for each increment recorded. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). The blow counts for each 6-inch increment and the resulting N-value are presented on the soil boring log.

The soil samples were placed in sealed containers and brought to our laboratory for testing and classification. During field operations, the driller maintained a log of the subsurface conditions, including changes in stratigraphy and observed groundwater levels to be used in conjunction with our



analysis of the subsurface conditions. The final boring log is based on the field boring log supplemented by laboratory soil classification. After completion of drilling operations, the boreholes were backfilled with the auger cuttings. We will hold the soil samples for 60 days from the date of this report, after which time they will be discarded. If you would like the samples, please let us know.

SITE DESCRIPTION

The existing building is located at 3515 Broad Street in the City of Dexter, Michigan. The existing building is a one-to-two-story structure and an approximate footprint of 8,810 square feet. The remainder of the parcel is grass covered, with a bituminous parking area to the north of the existing building.

Based on the provided grading plan provided by Lincoln A. Poley, AIA, Sheet 2.00, the site gradually slopes downward to the north. An existing railroad is present to the south of the site. The surrounding properties are residential in nature.

SOIL CONDITIONS

Approximately 6 inches of sandy topsoil is present at the ground surface within soil boring B-01. Sand fill with intermixed pea gravel underlies the topsoil and extends to an approximate depth of 3 feet. Native granular soils, consisting of sand and gravelly sand, underlie the sand fill and extends to a depth of 20 feet.

The fill sand is medium compact in relative density, with a Standard Penetration Test (SPT) N-value of 15 blows per foot (bpf). The underlying native granular soils are medium compact to compact in relative density, with SPT N-values ranging from 23 to 50 bpf.

The stratification depths shown on the soil boring log represent the soil conditions at the boring location. Variations may occur away from the boring location. Additionally, the stratigraphic lines represent the approximate boundaries between soil types. The transition may be more gradual than indicated. We have prepared the boring log on the basis of the field log of the soil conditions encountered supplemented by laboratory classification.

The Soil Boring Location Plan, Plate No. 1, and Soil Boring Log, Figure No. 1, are presented in the Appendix. The soil profiles described above are generalized descriptions of the conditions encountered at the boring location. General Notes Terminology defining the nomenclature used on the soil boring logs and elsewhere in this report are presented on Figure No. 2.

GROUNDWATER CONDITIONS

No measurable groundwater was encountered during on upon completion of drilling operations. Fluctuations in perched and long-term groundwater levels should be anticipated due to seasonal variations and following periods of prolonged precipitation.

SITE PREPARATION

We anticipate earthwork operations will consist of complete removal of the existing vegetation and topsoil, excavating for foundations, evaluation of the subgrade, and subgrade preparation of the elevator pit slab-on-grade. We recommend all earthwork operations be performed in accordance with comprehensive specifications and be properly monitored in the field by qualified personnel under the direction of a licensed professional engineer.

At the start of earthwork operations, any existing topsoil and vegetation should be removed in their entirety from the proposed footprint of the elevator and stair addition. Following removal of the topsoil and vegetation, the exposed subgrade should be evaluated for stability. It will not be feasible to proof-compact the exposed subgrade, due to the anticipated depth of the elevator pit for the proposed



addition. Therefore, the exposed subgrade should be visually evaluated, or evaluated using a dynamic cone penetrometer (DCP). If the exposed subgrade soils are deemed unstable, they should be removed and replaced with engineered fill, or improved with additional compaction. We do not recommend utilizing heavy-duty vibrating compaction equipment adjacent to the existing building foundations, such as a vibratory roller or hoe-pack.

Engineered fill should be free of organic matter, frozen soil, clods, or other harmful material. Frozen material should not be used as fill, nor should fill be placed on a frozen subgrade. Engineered fill should be placed in uniform horizontal layers, not more than 9 inches in loose thickness. Shallower lift thicknesses will be required within areas that are static rolled. The engineered fill should be compacted to achieve a density of at least 95 percent of the maximum dry density as determined by the Modified Proctor compaction test (ASTM D 1557). Any cohesive engineered fill material should be placed and compacted at moisture contents within 3 percent above and 1 percent below the moisture content. Any granular engineered fill material should be placed and compacted at moisture contents within 2 percent above or below the optimum moisture content.

We recommend using an imported granular engineered fill within confined areas such as adjacent to foundation walls. Granular engineered fill is generally more easily compacted than cohesive soils within these confined areas.

FOUNDATION RECOMMENDATIONS

Based upon the existing subgrade conditions and anticipated loading conditions, we recommend the proposed addition be supported on conventional strip and spread footings. We anticipate the foundation will bear on the medium compact native sand. The foundation bearing depth of the adjacent existing structures should be confirmed prior to the construction of the proposed addition. Any foundations installed immediately adjacent to the existing buildings should bear at the same elevation as the existing foundations. In no case should excavations extend below the level of adjacent structures unless underpinning is planned.

We recommend a net allowable bearing capacity of 3,000 pounds per square foot (psf) may be used for design of foundations bearing on the medium compact sand. Exterior foundations should bear at a minimum depth of 3-1/2 feet below finished grade for protection against frost heave. We recommend a qualified geotechnical engineer or qualified technician be on site during construction to observe the excavations, measure the bearing depths, and confirm the bearing soils are consistent with the soils identified within this report.

Continuous wall or strip footings should be at least 12 inches in width and isolated spread footings should be at least 30 inches in their least dimension. Adjacent spread footings at different levels should be designed and constructed so the least lateral distance between them is equivalent to or more than the difference in their bearing levels. To achieve a change in the level of a strip foundation, the foundation should be gradually stepped at a grade no steeper than two units horizontal to one unit vertical.

Caving and sloughing of the granular soils will occur during excavation operations for the proposed foundations. The contractor should be prepared to over excavate and form the footings within these soils. The sides of the spread and/or strip footing foundations should be constructed straight and vertical to reduce the risk of frozen soil adhering to the concrete and raising the foundations.

If the recommendations outlined in this report are adhered to, total and differential settlements for the completed structure should be within 1 inch and ½ inch, respectively. We expect settlements of these magnitudes are within tolerable limits for the type of structure proposed.

BELOW-GRADE WALL RECOMMENDATIONS

At the time of this report, information related to bearing depth or geometry of the proposed elevator



addition were not available. However, it will be assumed that foundation walls for the proposed elevator addition will extend approximately 3-1/2 feet below the ground surface.

Below-grade walls should be designed to withstand lateral earth pressures due to backfilled soils. Below-grade walls considered to be fixed at the top should be designed on the basis of at-rest lateral earth pressures corresponding to an equivalent fluid pressure of 55 pounds per square foot (psf) per foot of depth for drained granular backfill soil.

We recommend backfill around the below-grade walls consist of MDOT 2NS sand to improve wall drainage. Lateral earth pressure are significantly influenced by the type and intensity of backfill compaction. We recommend thin lifts, approximately 6-inches in thickness, be placed and relatively small compaction equipment be used to compact backfill placed against below-grade walls.

We recommend a foundation drain system be incorporated to maintain drained soil conditions. To prevent the development of hydrostatic pressures on below-grade foundation walls, a sub drain system should be installed at the foundation level. The perforated or slotted sub drains should be encased with at least 12 inches of clean gravel or pea gravel, and the gravel and pipe together should be wrapped with a suitable non-woven filter fabric, such as Mirafi 140N, to prevent the migration of surrounding soil fines into the gravel and drain pipe. The sub drain system should outlet water to the nearby catch basin.

CONSTRUCTION CONSIDERATIONS

Given the granular nature of the soils, we anticipate caving and sloughing of the strip and spread footing excavations will occur. Therefore, the contractor should be prepared to over excavate and form the foundations. The sides of the foundations should be constructed straight and vertical to reduce the risk of frozen soil adhering to the concrete and raising the foundation.

No groundwater was encountered within the soil borings for the proposed addition. Therefore, we do not anticipate that any significant groundwater accumulations will occur in construction excavations at the depths anticipated for this project. In general, we expect accumulations of surface runoff water will be controllable with pumping from properly constructed sumps.

All excavations must be safely shored or sloped in accordance with MI-OSHA requirements. If material is stored or equipment is operated near an excavation, lower angle slopes or stronger shoring must be used to resist the extra pressure due to the superimposed loads. Where sloped excavations can be made, we recommend a maximum slope of 1-1/2 horizontal units to 1 vertical unit (1-1/2H:1V) within the medium compact to compact granular soil.

GENERAL COMMENTS

We have formulated the evaluations and recommendations presented in this report relative to site preparation and foundations on the basis of data provided to us relating to the project location and type of structure. Any significant change in this data should be brought to our attention for review and evaluation with respect to prevailing subsurface conditions. Furthermore, if changes occur in the design, location, or concept of the project, conclusions and recommendations contained in this report are not valid unless G2 Consulting Group, LLC reviews the changes. G2 Consulting Group, LLC will then confirm the recommendations presented herein or make changes in writing.

The scope of the present investigation was limited to evaluation of subsurface conditions for the support of proposed elevator addition. No chemical, environmental, or hydrogeological testing or analyses were included in the scope of this investigation.

We base the analyses and recommendations submitted in this report upon the data from the soil boring performed at the approximate location shown on the Soil Boring Location Plan, Plate No. 1. This report does not reflect variations that may occur between the actual boring location and the actual structure



location. The nature and extent of any such variations may not become clear until the time of construction. If significant variations then become evident, it may be necessary for us to re-evaluate our report recommendations.

We recommend G2 Consulting Group, LLC observe all geotechnical related work, including foundation construction, subgrade preparation, and engineered fill placement. G2 Consulting Group, LLC will perform the appropriate testing to confirm the geotechnical conditions given in the report are found during construction.

APPENDIX

Soil Boring Location Plan

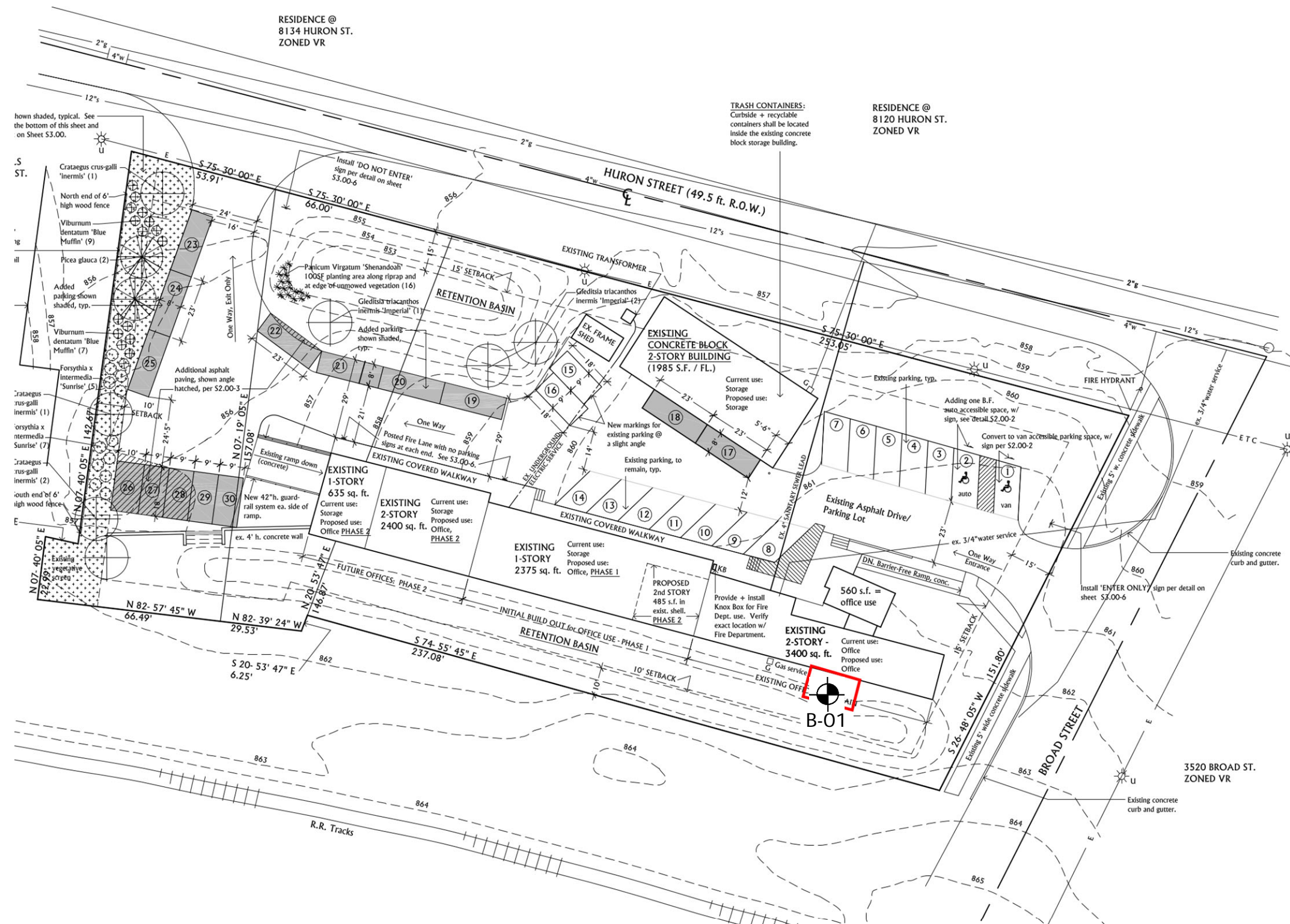
Plate No. 1

Soil Boring Logs

Figure No. 1

General Notes Terminology

Figure No. 2



Legend

 Soil boring drilled by Strata Drilling, Inc. on September 8, 2021.

Base Drawing Credit: Lincoln A. Poley, Architect, AIA Project No.: 072611.commercial

Soil Boring Location Plan

Proposed Dexter City Hall Addition
3515 Broad Street
City of Dexter, Washtenaw County, Michigan



Project No.: 213562

Drawn by: MGD

Date: 9/8/21

Scale: NTS

Plate
No. 1

Project Name: Proposed Dexter City Hall Addition

Project Location: 3515 Broad Street
City of Dexter, Washtenaw County, Michigan

G2 Project No. 213562

Latitude: 42.340742° Longitude: -83.883751°



Soil Boring No. B-01

CONSULTING GROUP

SUBSURFACE PROFILE

SOIL SAMPLE DATA

ELEV. (ft)	PRO- FILE	GROUND SURFACE ELEVATION: 862.0 ft ±	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Dark Brown Silty Sand with trace gravel (6 inches)	0.5						
		Fill: Medium Compact Brown Sand and Gravel with trace silt; intermixed pea gravel	3.0	S-01	3 8 7	15			
857.0			5	S-02	9 11 12	23			
		Medium Compact Brown Sand with trace gravel and silt; occasional cobbles		S-03	9 12 14	26			
852.0			10.0	S-04	9 14 16	30			
		Compact Brown Gravelly Sand with trace silt; occasional cobbles		S-05	14 18 22	40			
847.0			15						
		Compact Brown Sand with trace silt and gravel	17.0						
842.0			20.0	S-06	18 23 27	50			
		End of Boring @ 20 ft							
837.0			25						

Total Depth: 20 ft
Drilling Date: September 8, 2021
Inspector: ---
Contractor: Strata Drilling, Inc.
Driller: D. Watkins

Water Level Observation:
Dry during and upon completion

Excavation Backfilling Procedure:
Auger spoils

Drilling Method:
2-1/4 inch inside diameter hollow-stem augers

Figure No. 1

GENERAL NOTES TERMINOLOGY

Unless otherwise noted, all terms herein refer to the Standard Definitions presented in ASTM 653.

PARTICLE SIZE

Boulders	- greater than 12 inches
Cobbles	- 3 inches to 12 inches
Gravel - Coarse	- 3/4 inches to 3 inches
- Fine	- No. 4 to 3/4 inches
Sand - Coarse	- No. 10 to No. 4
- Medium	- No. 40 to No. 10
- Fine	- No. 200 to No. 40
Silt	- 0.005mm to 0.074mm
Clay	- Less than 0.005mm

CLASSIFICATION

The major soil constituent is the principal noun, i.e. clay, silt, sand, gravel. The second major soil constituent and other minor constituents are reported as follows:

Second Major Constituent (percent by weight)	Minor Constituent (percent by weight)
Trace - 1 to 12%	Trace - 1 to 12%
Adjective - 12 to 35%	Little - 12 to 23%
And - over 35%	Some - 23 to 33%

COHESIVE SOILS

If clay content is sufficient so that clay dominates soil properties, clay becomes the principal noun with the other major soil constituent as modifier, i.e. sandy clay. Other minor soil constituents may be included in accordance with the classification breakdown for cohesionless soils, i.e. silty clay, trace sand, little gravel.

Consistency	Unconfined Compressive Strength (psf)	Approximate Range of (N)
Very Soft	Below 500	0 - 2
Soft	500 - 1,000	3 - 4
Medium	1,000 - 2,000	5 - 8
Stiff	2,000 - 4,000	9 - 15
Very Stiff	4,000 - 8,000	16 - 30
Hard	8,000 - 16,000	31 - 50
Very Hard	Over 16,000	Over 50

Consistency of cohesive soils is based upon an evaluation of the observed resistance to deformation under load and not upon the Standard Penetration Resistance (N).

COHESIONLESS SOILS

Density Classification	Relative Density %	Approximate Range of (N)
Very Loose	0 - 15	0 - 4
Loose	16 - 35	5 - 10
Medium Compact	36 - 65	11 - 30
Compact	66 - 85	31 - 50
Very Compact	86 - 100	Over 50

Relative Density of cohesionless soils is based upon the evaluation of the Standard Penetration Resistance (N), modified as required for depth effects, sampling effects, etc.

SAMPLE DESIGNATIONS

AS -	Auger Sample - Cuttings directly from auger flight
BS -	Bottle or Bag Samples
S -	Split Spoon Sample - ASTM D 1586
LS -	Liner Sample with liner insert 3 inches in length
ST -	Shelby Tube sample - 3 inch diameter unless otherwise noted
PS -	Piston Sample - 3 inch diameter unless otherwise noted
RC -	Rock Core - NX core unless otherwise noted

STANDARD PENETRATION TEST (ASTM D 1586) - A 2.0 inch outside-diameter, 1-3/8 inch inside-diameter split barrel sampler is driven into undisturbed soil by means of a 140-pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven three successive 6-inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).

ADVERTISEMENT FOR BIDS

BID TITLE: CITY OF DEXTER – CITY HALL RENOVATIONS
For: 3515 Broad Street, Dexter, MI 48130

The City of Dexter will receive ~~electronic~~ **HARD COPY PAPER** bids for the **CITY OF DEXTER – CITY HALL RENOVATIONS:** project no later than **Thursday, January 27, 2022 at 2:00pm.** Forward bids ~~by email~~ to Mr. Justin Breyer jbreyer@dextermi.gov; **8140 MAIN STREET, DEXTER, MI 48130.** Bids will be opened publicly and read out loud by use of a virtual meeting shortly after receipt of bids at 8140 Main Street, Dexter, MI 48130. Link to virtual meeting will be forwarded to plan-holders prior to bid day. Bids received after January 27, 2022 at 2pm will **not** be accepted or considered by the City of Dexter. An optional **Pre-Bid Meeting will be held on Friday, January 7, 2022 starting at 1:00 P.M.** Attendees should gather at 3515 Broad Street, Dexter, MI, and will be expected to wear masks and follow State recommended COVID safety guidelines.

All bids shall be accompanied by a sworn and notarized statement disclosing any familial relationship(s) that exist between the owner(s) or any employee of the bidder and any official with the City of Dexter. The City of Dexter shall not accept a bid that does not include a sworn and notarized familial relationship disclosure statement. All bids must also be submitted with a sworn and notarized Affidavit of Compliance regarding Michigan Public Act No. 517 of 2012 – Iran Economic Sanctions Act.

Submit with each bid, a certified check or acceptable bid bond payable to the City of Dexter, in an amount equal to five percent (5%) of the total bid. For bids in excess of \$50,000, a Labor and Materials Payment Bond and a Performance Bond will be required. If submitting check, drop check to PARTNERS in Architecture Office at 65 Market Street, Mt. Clemens, MI 48043 during regular business hours.

The Architect will provide the documents to prospective bidders. Interested contractors should request bidding documents from, and send questions to PARTNERS in Architecture via email: jhoulihan@partnersinarch.com. **Bidding documents will be available by noon of January 3, 2022.** Refer to the bid documents for additional required information to be submitted with the bid.

PARTNERS in Architecture, PLC, Ph: 586-469-3600.

BID FORM

BID PROPOSAL FOR: **City of Dexter – City Hall Renovations**

SEND BID TO: City of Dexter
8123 MAIN ST.
Dexter, MI 48130
Attention: City Manager/Clerk, Justin Breyer

BID DUE DATE: **JANUARY 27, 2022; 2:00PM**

BIDDERS NAME: _____

We have examined the Contract Documents for the proposed project as prepared by PARTNERS in Architecture, PLC.

In accordance therewith, the undersigned proposes to furnish all labor and materials for construction as set forth in the Contract Documents, including the following Addenda, if any (fill in the addenda number, thus confirming receipt):

Addendum Number _____ Addendum Number _____ Addendum Number _____

1. Accompanying the proposal is a bid security for work required to be furnished by the Contract Documents, the same being subject to forfeiture in the event of default by the undersigned.
2. I agree to complete the Project, by the dates listed in Specification Section 011000 – Summary; provided that a notice to proceed is issued within thirty (30) days.
3. I understand that the Owner reserves the right to reject any or all bids, and it is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.
5. Attached herewith are the documents requested in the Supplementary Instructions to Bidders, Specification Section 002213, paragraph 4.3.5.

A. BASE BID: (Insert a base bid amount in the blank provided).

_____ Dollars \$ _____

B. SCHEDULE: Refer to Specification Section 011000 for schedule requirements.

C. ALTERNATES: Refer to Specification Section 012300.

Additive Alternate #1: Replace Existing Parking Lot

\$ _____

Additive Alternate #2: Barn/ Guard House, Improvements:

\$ _____

Additive Alternate #3: New Monument Sign:

\$ _____

Deduct Alternate #4: Exterior Siding Options:

(\$ _____)

Deduct Alternate #5: Roofing Options:

(\$ _____)

Deduct Alternate #6: Council Room Framing:

(\$ _____)

Deduct Alternate #7: Upgrade Existing Fire Alarm:

(\$ _____)

Deduct Alternate #8: New Window South Elevation:

(\$ _____)

Additive Alternate #9: Mechanical Alternate M1:

(\$ _____)

D. NON-IRAN LINKED BUSINESSES

By signing below, I certify and agree on behalf of myself and the company submitting this proposal the following: (1) that I am duly authorized to legally bind the company submitting this proposal; and (2) that the company submitting this proposal is not an "Iran linked business," as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, being Michigan Public Act No. 517 of 2012; and (3) that I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the City in this regard.

E. COMPANY / CONTACT INFORMATION

Company Name: _____

Contact Name: _____

Address: _____

Phone Number: _____ Cell Number: _____

Email: _____

Corporate Officer Name: _____ Title _____

Corporate Officer Signature: _____ Date: _____

Federal ID Number : _____

END OF BID FORM

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Work under Owner's separate contracts.
4. Owner-furnished/Contractor-installed (OFCI) products.
5. Contractor's use of site and premises.
6. Coordination with occupants.
7. Work restrictions.
8. Specification and Drawing conventions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 PROJECT INFORMATION

A. Project Identification: City of Dexter – City Hall Renovations

1. Project Location: **3515 Broad St.**, Dexter, MI 48130.

B. Owner: City of Dexter

C. Architect: PARTNERS in Architecture, PLC; 65 Market Street, Mount Clemens, MI 48043

1.3 BID / PROJECT SCHEDULE

A. The projected bid / project schedule milestones are as follows:

1. Issue Documents for Permit: December 22, 2021.
2. Issue early release documents for elevator direct purchase by City of Dexter: December 22, 2021.
3. Issue documents for Bid: January 3, 2022.
4. Pre-Bid Meeting at Project Site: January 7, 2022 at 1:00 P.M.
5. Last Day to Submit Questions: January 21, 2022.
6. Date of Final Addendum: January 25, 2022.
7. Electronic Bids Due: January 27, 2022 at 2:00 PM.
8. Contractor Interviews: January 31, through February 1, 2022. All bidders shall hold their calendars open for a potential interview. Generally, the lowest two bidders will be called in for an interview. Interviews will be held via video conference call. Link to be provided by Architect on bid day.
9. Award Recommendation letter provided: Week of February 7, 2022.

10. Desired Construction Commencement: As soon as possible after project award.
Achieve Substantial Completion: July 15, 2022.
11. Project Closeout: All project closeout activities shall be completed within thirty (30) days following the substantial completion date.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
 1. Renovation of the existing Dexter City Hall facility, including interior architectural improvements, a new addition to include a small reception area, a new elevator and egress stair, and MEP work. The project will also include repair work to existing outbuilding on site an existing parking lot.
- B. Type of Contract:
 1. Project will be constructed under a single prime contract.

1.5 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.
- B. Concurrent Work: Owner will award separate contract(s) for the following construction operations at Project site. Those operations will be conducted simultaneously with work under this Contract.
 1. Elevator: The Owner intends to enter into a separate contract with an Elevator Contractor to complete installation of the new elevator. The Elevator Contractor awarded this contract, will be required to work with the General Contractor to assure design and construction will support the new elevator installation in its entirety. The General Contractor will be responsible for coordinating all work for the elevator installation with the Elevator Contractor and will incorporate the Elevator Contractors work into the overall project schedule.

The intent of this unique project is to assure the elevator is available to be installed and will be functional in accordance to the common schedule associated to both projects as outlined in Section 1.3 above. It is expected that the Elevator Contractor issue shop drawings within two weeks of award of a contract to the architect so new construction can be coordinated with the elevator, and that all work is complete for a fully functional elevator in accordance with the schedule in Section 1.3.

As a part of the lump sum contract, the Elevator Contractor is to include all labor, material, and equipment necessary for the completion of all work, and includes any and all permits/inspections from the Authorities having Jurisdiction associated with the elevator. Permits/ inspections completed under the General Contractor contract are the responsibility of the General Contractor.

1.6 OWNER-FURNISHED PRODUCTS

- A. Owner's Responsibilities: Owner will furnish products indicated.
- B. Owner-Furnished/Owner Installed-Installed (OFICI) Products:
 - 1. TV's, Monitors, Computer Equipment, low voltage cabling.

1.7 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Restricted Use of Site: The building is vacant and contractor will have access to the areas needed to renovate building. Those areas which are to not receive work are off limits to Contractor unless specifically requested by contractor.
- B. Limits on Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Driveways, Walkways, and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at times which will be determined and coordinated after project award with building staff members. Do not use these areas for parking or for storage of materials.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
- D. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.8 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 6:30 a.m. to 5:30 p.m., Monday through Friday, unless otherwise indicated. Weekend operation may be allowed if properly coordinated with owner staff.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
- D. Noise, Vibration, Dust, and Odors: Coordinate operations that may result in high levels of noise and vibration, dust, odors, or other disruption to Owner occupancy with Owner.

1. Notify Owner not less than two days in advance of proposed disruptive operations.
- E. Smoking and Controlled Substance Restrictions: Use of tobacco products, alcoholic beverages, and other controlled substances on Owner's property is not allowed.
- F. Employee Identification: Contractor personnel working on Project site should wear uniforms, company shirts, identification tags, or similar that will allow owner staff to clearly identify them.
- G. Waste Management: Contractor will not be allowed to use owner dumpsters, and must provide their own for the purposes of construction activities. Location shall be coordinated with, and approved by Owner.

1.9 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications. Unless otherwise indicated, linked information is not part of the Contract Documents.
 3. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.
- C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Additive Alternate No. 1 - Replace Existing Parking Lot:
 - 1. Base Bid: No work.
 - 2. Alternate: Provide all costs for all labor and material to upgrade existing asphalt paving to include:

- a. Remove existing asphalt to sub base and replace asphalt paving at entrance drive aprons as shown.
 - b. Remove existing asphalt to sub base, and replace deteriorated and cracked asphalt at central areas of paved parking as shown.
 - c. Seal cracks in existing asphalt in all areas not noted to be replaced.
 - d. Seal coat over all asphalt paved areas, including existing asphalt not scheduled to receive new work, and areas noted for work above.
 - e. Restripe parking spaces to match existing including barrier free spaces.
 - f. Legally dispose of all materials off site.
3. Alternate is to include costs for all labor, material, incidentals, and OH&P.

B. Additive Alternate No. 2 – Barn and Guard House, Various Improvements:

1. Base Bid: No work.
2. Alternate:
 - a. Remove and replace existing exterior vertical wood siding boards to match existing width and thickness in all areas indicated. Wood to be treated exterior grade. Prime and finish paint, color as to be as selected by Architect.
 - b. Remove and replace all roof eave fascia boards with new pressure treated exterior grade wood to match existing thickness and width. Provide prefinished aluminum break metal cladding on new wood fascia to clad exposed wood complete. Provide new prefinished aluminum drip edge along edge of roof deck above, to fit below metal roofing. Secure edges of all metal roofing that is loose or warped with anchors set in elastomeric sealant as required.
 - c. Remove all loose paint, caulk and glazing compound from all window glazed trim. Provide new glazing compound at glass panels as required. Prime and finish paint wood trim and muntins white to match existing.
 - d. Prep, prime and paint all exterior wood siding, color as to be as selected by Architect.
 - e. Prep, prime and paint 1st level CMU, including limited plywood siding. Color as to be as selected by Architect.
 - f. Remove and replace existing wood door and frame with new hollow metal security door and frame. Grout frame solid and continuously seal frame to CMU. Provide new access hardware similar to existing. Paint, color as to be as selected by Architect.
 - g. Remove and replace existing hollow metal door. Reuse existing hardware in new metal security door assembly. Paint, color as to be as selected by Architect.
 - h. Replace missing glass pane in existing window opening assembly. Glass to be single pane to match existing material and installation with new glazing compound to match existing.
 - i. Provide new electric door operator for existing sectional overhead door and guide track assembly. Provide all related hardware, safety devices and remote openers (2).
 - j. Secure all loose and deteriorated existing metal roofing to existing substrate and roof joists. Use compatible anchors set in elastomeric sealant.
 - k. Replace all existing internal industrial style lights with new linear utility LED lights. Each light to be 4'-0" long with aluminum shield and reflector for downward light distribution. Replace electric wiring as required.
 - l. Remove "temporary" ridge support shoring posts in 2nd level loft. Provide permanent posts as required to support roof structure.
 - m. Remove and replace rotted or damaged floor boards at the 2nd level loft. Assume 400 s.f. to be replaced.
 - n. Remove, reframe and replace existing stair, guards and handrail. Remove existing loft hatch and replace with new wood access panel.

- o. Legally dispose of all materials off site.
3. Alternate is to include costs for all labor, material, incidentals, and OH&P.

C. Additive Alternate No. 3 – New Monument Sign:

1. Base Bid: No work.
2. Alternate: Provide new concrete and fieldstone monument sign:
 - a. Concrete trench footing to be 42" deep with 2 #5's @ top and bottom at 18" wide x 10'-0" long.
 - b. Construct 4' high x 10'-0" long x 12" wide solid fieldstone wall with #4 vertical reinforcing set in footing up through full height of wall at 24" o.c. Provide 14" wide x 4" thick cast stone cap with stainless steel pins set 2'0".
 - c. Cast stone cap: Provide in 3 equal sections with 1" overhang at each face.
 - d. Provide stainless steel pin mounted lettering min 18" high. Provide text copy in "Helvetica light" font for architect review and approval – Text to read: DEXTER CITY HALL.
 - e. Provide ground mounted landscape "up" lights to illuminate each side of sign with photocell and controls located in electrical room of area B.
3. Alternate is to include costs for all labor, material, incidentals, and OH&P.

D. Deduct Alternate No. 4 - Exterior Siding Options:

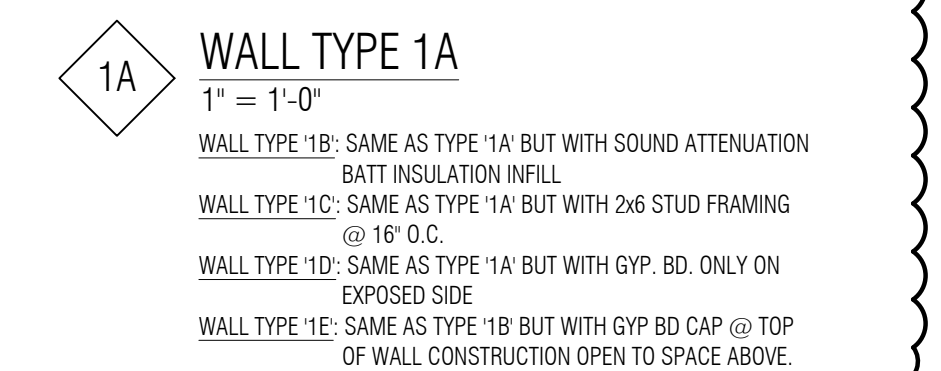
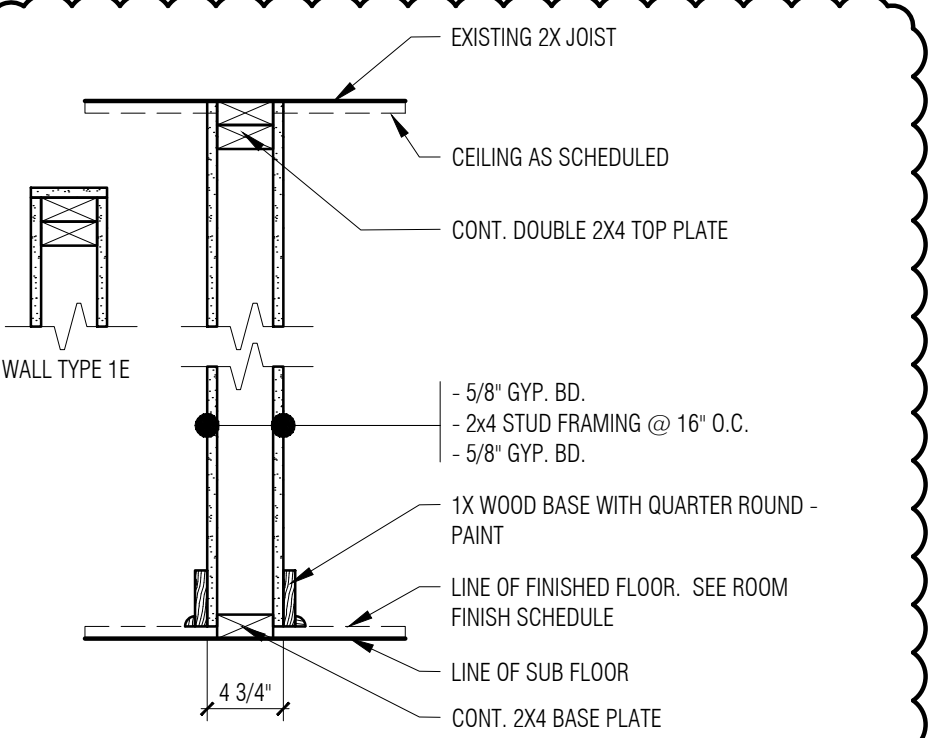
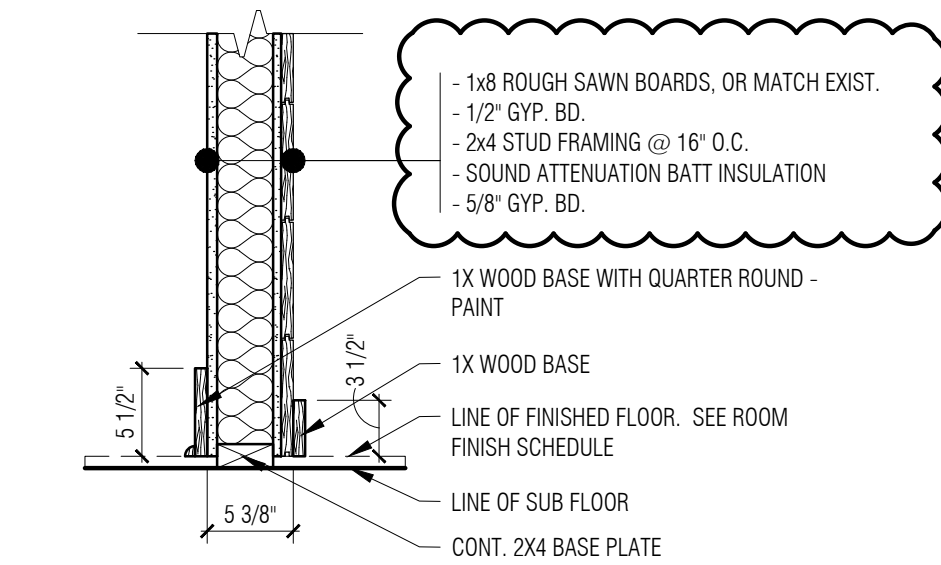
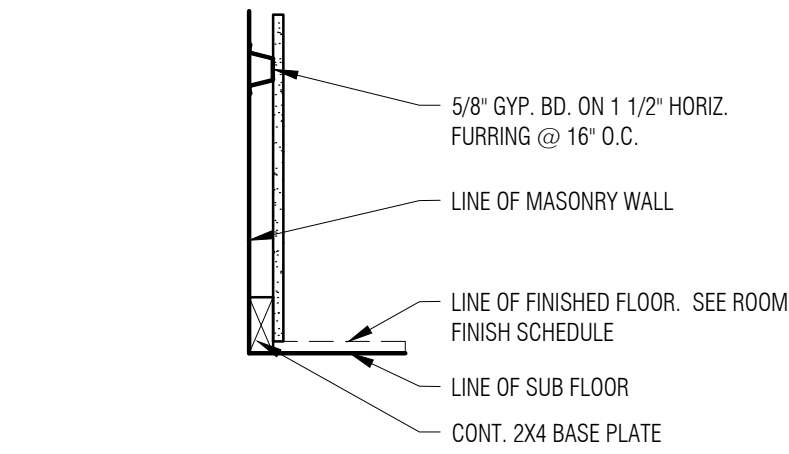
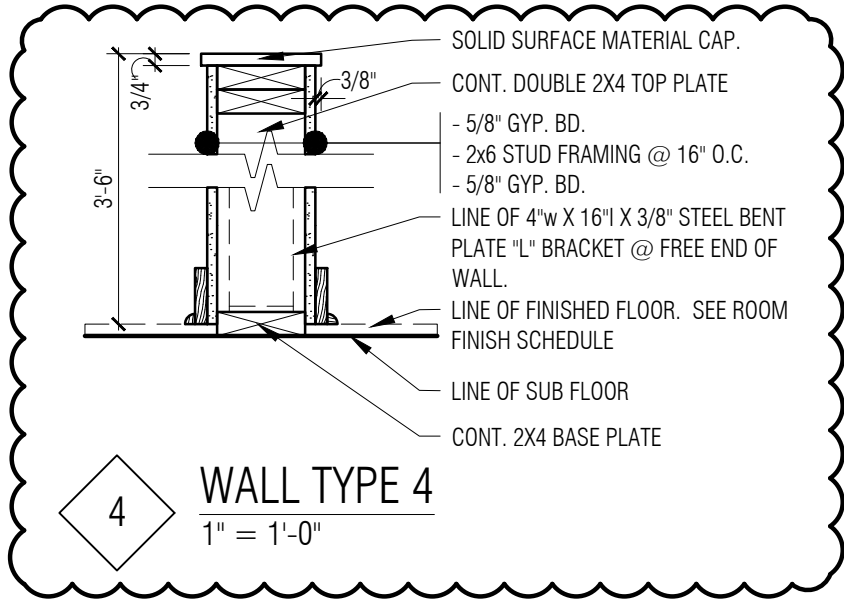
1. Base Bid: For Areas A and B:
 - a. Remove existing deteriorated exterior wood ship lap siding and replace with new lap siding to match existing dimensions and profile as required; assume 600 s.f. Legally dispose of all materials off site.
 - b. Caulk gaps and cracks that measure greater than 3/8" or more between siding boards vertically plus horizontally; assume 1,000 c.f. repaint entire exterior of mill building with solid color stain.
 - c. Legally dispose of all materials off site.
2. Alternate: For Areas A and B:
 - a. Caulk gaps in siding. Equal to or greater than 3/8"; assume 600 L.F.
 - b. Touch up paint finish at caulked locations only.
3. Alternate is to include costs for all labor, material, incidentals, and OH&P.

E. Deductive Alternate No. 5 – Roofing Options:

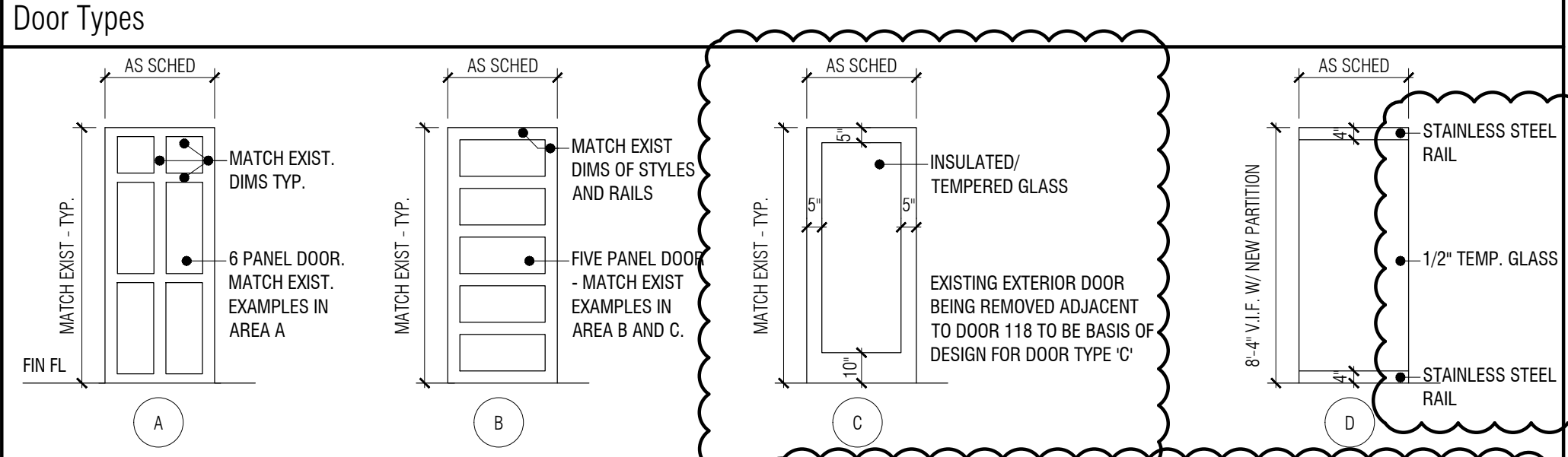
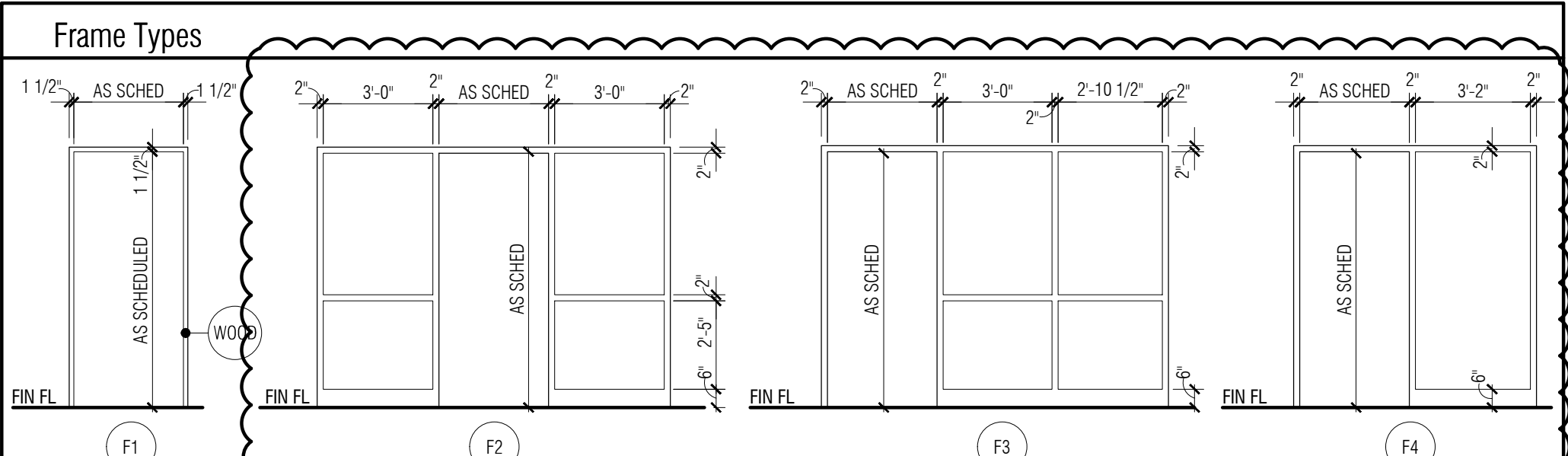
1. Base Bid: For Area A:
 - a. Remove existing deteriorated roof edge fascia boards on south elevation and replace with exterior grade 1X trim to match existing dimensions.
 - b. Clad all existing and new wood fascia board with prefinished aluminum break metal with continuous drip edge along bottom edge.
 - c. Legally dispose of all materials off site.
2. Alternate: For Area A:
 - a. Remove existing roof edge fascia board on south elevation with new exterior grade 1X trim to match existing dimensions.
 - b. Paint new and existing wood with solid color stain, color as selected by Architect.
 - c. Legally dispose of all materials off site.
3. Alternate is to include costs for all labor, material, incidentals, and OH&P.

- F. Deductive Alternate No 6 – Council Room Framing:
1. **Base Bid:** Revise framing in Council Room to Open Up Space:
 - a. Remove center column in Council Room as shown on structural. Provide all necessary shoring to support existing structure until work is completed.
 - b. Provide new support posts and carrier beam to support remaining upper half of column. Support posts to extend into existing basement and rest on new footings.
 - c. Repair hole in first floor at removed column with wood flooring to blend in and match exiting.
 - d. New support posts and beam to be clad in gypsum board and finish painted.
 2. **Base Bid** is to include costs for all labor, material, incidentals, and OH&P.
 3. **Alternate: No work.**
- G. **Deductive** Alternate No. 7 – Upgrade Existing Fire Alarm:
1. **Base Bid:** Upgrade existing fire alarm as required to current city standards and requirements.
 2. Add alternate is to include costs for all labor, material, incidentals, and OH&P.
 3. **Alternate: No Work.**
- H. Deductive Alternate No. 8 – New Windows, South Elevation:
1. **Base Bid:**
 - a. Install new windows on the north side of corridors 205 and 207 (type 6 locations) to match windows on the south elevation, using single pane units and fixed sashes.
 - b. Provide 1x3 painted wood trim both sides of window.
 - c. Repaint north wall of corridors 205 and 207 to match existing.
 - d. Legally dispose of all materials off site.
 2. **Alternate:** Delete addition of new interior windows complete.
- I. **Add Alternate No. 9 – Mechanical Alternate M1:**
1. **Base Bid: No work.**
 2. **Alternate:** Provide alternate pricing to replace five (5) furnace systems as new including split DX cooling cased coil and remote outdoor air-cooled condensing unit. These shall replace older Lenox units that were installed circa 2002. Approximate cooling capacity as indicated on the drawings is to be field verified. Match furnace input rating. Some existing nameplates are not legible. Adapt to and reuse existing air distribution. Provide new programmable thermostat and wiring. Re-use gas venting if possible or replace as new. Re-use electrical circuiting. New outdoor units will be installed in new locations indicated to clear new construction. Provide DX refrigerant piping.

END OF SECTION 012300



Door / Opening Schedule												
DOOR NO.	DOOR / OPENING SIZE (W X H) CONTRACTOR TO VERIFY DOOR SIZE IF OPENING IS EXISTING	DOOR			FRAME			DETAILS			HARDWARE SET #	LABEL (MIN.)
		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRES. / SILL		
101	3'-0" X 7'-0"	C	WD/GL	PNT-3	F2	ALUM	P.C.	D4	D3		01	-
102	3'-0" X 7'-0"	C	WD/GL	PNT-3	F3	ALUM	P.C.	D4	D3	T4	07	-
104	3'-0" X 8'-4"	D	AL/GL	PNT-3	-	-	-				08	-
105	EXISTING										09	-
106	EXISTING										10	-
107	EXISTING										10	-
108	3'-0" X 7'-0"	C	WD/GL	PNT-3	F1	WD	PNT-3	D2	4/A3-10		11	-
109	3'-0" X 7'-0"	A	WD	PNT-3	F1	WD	PNT-3	D2	D1	T2	02	-
110	3'-0" X 7'-0"	A	WD	PNT-3	F1	WD	PNT-3	D2	D1		03	-
112	3'-0" X 7'-0"	A	WD	PNT-3	F1	WD	PNT-3	D2	D1		13	-
113	EXISTING										14	-
114	EXISTING										14	-
115	3'-0" X 7'-0"	A	WD	PNT-3	F1	WD	PNT-3	D2	D1		03	-
116	EXISTING										04	-
117	EXISTING										09	-
118	3'-0" X 7'-0"	C	WD/GL	PNT-3	F4	ALUM	P.C.	D4	D3		05	-
119	EXISTING										15	-
120	EXISTING										16	-
121	EXISTING										17	-
122	EXISTING										16	-
123	EXISTING										17	-
124A	EXISTING										18	-
124B	EXISTING										18	-
127	EXISTING										09	-
128	EXISTING										09	-
129A	EXISTING										06	-
129B	EXISTING										19	-
130	EXISTING										14	-
131	EXISTING										14	-
132A	EXISTING										20	-
132B	EXISTING										20	-
201	EXISTING										10	-
202	EXISTING										10	-
203	EXISTING										10	-
204	EXISTING										10	-
208	EXISTING										10	-
209	EXISTING										10	-
210A	EXISTING										10	-
210B	EXISTING										20	-
211	EXISTING										14	-
212	EXISTING										14	-
213A	EXISTING										20	-
213B	EXISTING										20	-
214	EXISTING										19	-



Door/ Openings General Notes:	
A.	FIELD VERIFY ALL OPENINGS PRIOR TO DOOR/FRAME FABRICATION
B.	FIELD VERIFY EXISTING DOORS TO REMAIN FOR NEW H.W. INSTALLATION.

Door/ Openings Keynotes:	
1.	FRAME TO HAVE POWDER COAT FINISH TO MATCH PNT-3.
2.	VERIFY OPENING HEIGHT PRIOR TO FABRICATION OF DOOR.
3.	REMOVE CUT DOOR & CUT CASING @ RAISED FLOOR.

Room Finish Schedule											
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING FINISH	ROOM FINISH KEY NOTES		
				NORTH	EAST	SOUTH	WEST				
101	VESTIBULE	CPT-2	B-1	-	-	-	-	ACT-1			
102	LOBBY	PCT-1	B-1 / B-2	PNT-1	PNT-2	PNT-1 / PNT-5	PNT-1 / EXIST WD	PNT-1	2		
103	HOTELING	WD-1	EXIST / B-1	PNT-2	EXIST	PNT-2	PNT-2	EXIST			
104	CONFERENCE	EXIST	EXIST / B-2	-	-	-	PNT-2 / -	EXIST - WD			
105	CLOSET	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
106	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
107	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
108	CORRIDOR	EXIST	EXIST	PNT-1	EXIST	EXIST	PNT-1	-	PNT-1		
109	ELEV. LOBBY	WD-1	B-1	-	-	PNT-1	PNT-1	ACT-1			
110	CORRIDOR	WD-1	B-1	-	-	PNT-1	PNT-1	PNT-1			
111	RECEPTION OFFICE	CPNT-1	B-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1			
112	CORRIDOR	EXIST	EXIST / B-1	PNT-1	PNT-1	PNT-2	PNT-1	PNT-1			
113	WOMENS	EXIST	EXIST	PNT-4	PNT-4	PNT-4	PNT-4	EXIST			
114	MENS	EXIST	EXIST	PNT-4	PNT-4	PNT-4	PNT-4	EXIST			
115	ARCHIVE STORAGE	EXIST	EXIST / B-1	PNT-1	EXIST	EXIST	EXIST	PNT-1	EXIST		
116	WORK ROOM	EXIST	EXIST / B-1	PNT-1	EXIST	PNT-1	PNT-1	EXIST / PNT-1 / ACT-1			
117	AV	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST			
118	VESTIBULE	EXIST	EXIST / B-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1			
119	CORRIDOR	EXIST	EXIST	PNT-1	PNT-1	PNT-1	-	EXIST			
120	WOMENS	EXIST	EXIST	PNT-4	PNT-4	PNT-4	PNT-4	EXIST			
121	STORAGE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
122	MENS	EXIST	EXIST	PNT-4	PNT-4	PNT-4	PNT-4	EXIST			
123	SERVER	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
124	COUNCIL ROOM	EXIST	EXIST	PNT-1	PNT-1	PNT-1	PNT-1 / PNT-4	EXIST	3		
125	KITCHENETTE	EXIST	EXIST	EXIST	PNT-1	PNT-1	PNT-1	EXIST			
126	VESTIBULE	EXIST	EXIST	PNT-1	PNT-1	PNT-1	PNT-1	EXIST			
127	ELECTRICAL	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
128	CLOSET	VCT	B-1	PNT-1	PNT-1	PNT-1	PNT-1	EXIST	1		
129	OPEN OFFICE	EXIST / CPT-1	EXIST / B1	EXIST	PNT-1	EXIST	EXIST	EXIST	4		
130	WOMENS	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
131	MENS	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
132	CONFERENCE ROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
STAIR 1	STAIR	WD	WD	-	PNT-1	PNT-1	PNT-1	PNT-1			

SECOND FLOOR	201	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
	202	OFFICE	EXIST	EXIST	EXIST	EXIST	PNT-1	EXIST	EXIST		
	203	OFFICE	EXIST	EXIST	EXIST	EXIST	PNT-1	EXIST	EXIST		
	204	OFFICE	EXIST	EXIST	EXIST	EXIST	PNT-1	EXIST	EXIST		
	205	CORRIDOR	EXIST	EXIST	PNT-1	EXIST	EXIST	-	EXIST		
	206	ELEVATOR LOBBY	WD-1	EXIST / B-1	-	-	PNT-1	PNT-1	PNT-1		
	207	CORRIDOR	EXIST	EXIST	PNT-1	-	EXIST	-	EXIST		
	208	OFFICE	EXIST	EXIST	EXIST	EXIST	PNT-1	EXIST	EXIST		
	209	OFFICE	EXIST	EXIST	EXIST	EXIST	PNT-1	EXIST	EXIST		
	210	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST		
	211	UNISEX	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST		
	212	UNISEX	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST		
213	BREAKROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST		
214	CONFERENCE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST		

General Notes:	
A.	GENERAL NOTE.

Room Finish Key Notes:	
1.	NEW RAMP AND LANDING FINISH CPT-2.
2.	REFER TO INT. ELEVATION. PNT-5 LOCATION.
3.	REFER TO PLAN FOR ACCENT COLOR LOCATION. PNT-4 LOCATION.
4.	NEW CARPET & BASE @ RAMP AND LANDING

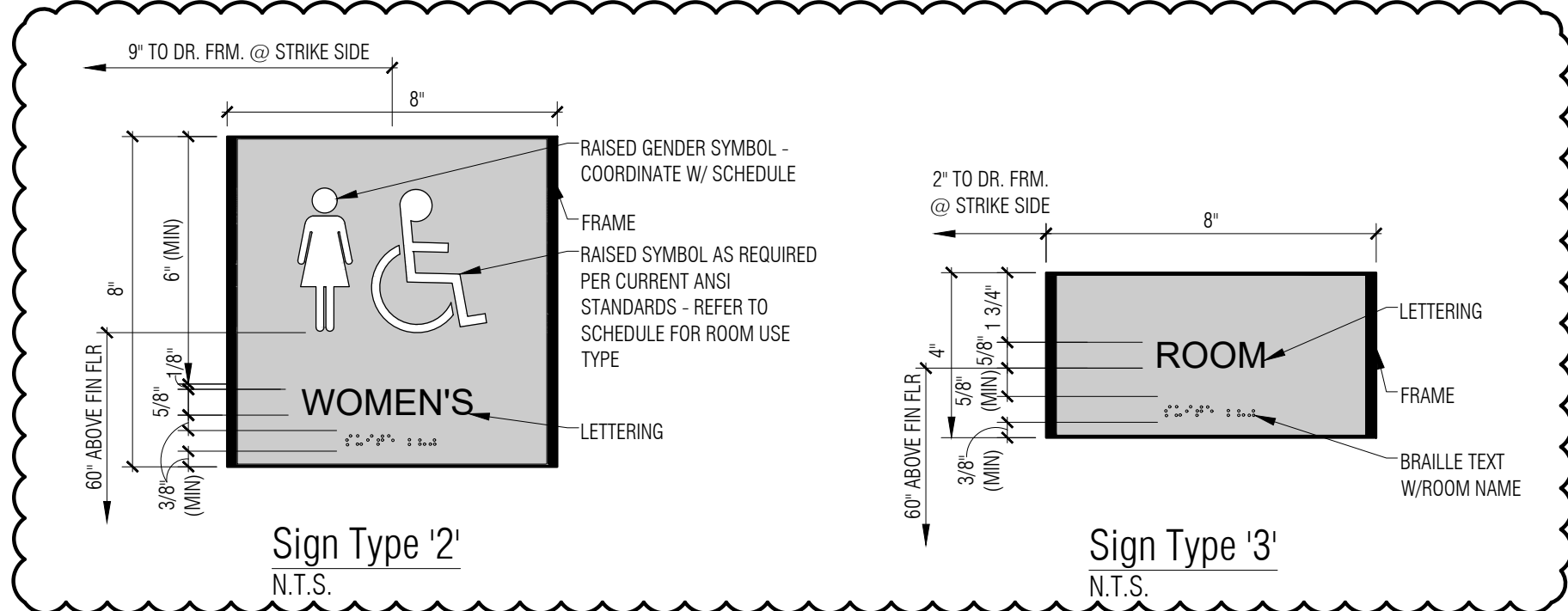
FINISH KEY:

- WD-1: SALVAGE EXISTING WOOD FLOOR. REINSTALL TO MATCH AND BLEND WITH EXISTING TO REMAIN IN ADJACENT AREAS.
- CPT-1: OFFICE CARPET - REFER TO SPECS
- CPT-2: (WALK OFF CARPET) - REFER TO SPECS
- PCT-1: LOBBY FLOOR TILE - REFER TO SPECS
- PNT-1: MATCH EXISTING WALL COLOR
- PNT-2: ACCENT WALL COLOR - "GREEN" - REFER TO SPECS
- PNT-3: MATCH EXISTING DOOR, TRIM AND WALL BASE TRIM COLOR - REFER TO SPECS
- PNT-4: ACCENT WALL COLOR - "COPPER" - REFER TO SPECS
- PNT-5: ACCENT WALL COLOR - "GREY" - REFER TO SPECS

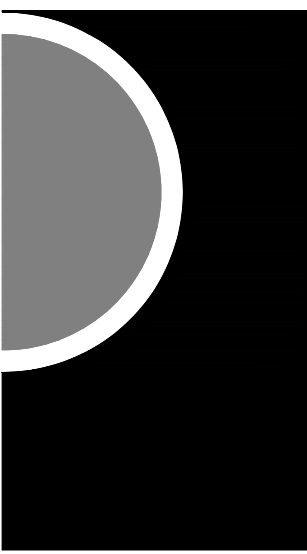
BASES:

PNT-3 PAINT FIN 3/4" QUARTER-ROUND B-1

ROUGH SAWN WD W/ NATURAL FINISH. MATCH EXISTING SIMILAR BASE. B-2



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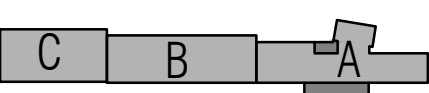
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OWNER

City of Dexter

PROJECT NAME

City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

Bidding Construction 12/22/2021
Addendum #1 01/21/2022

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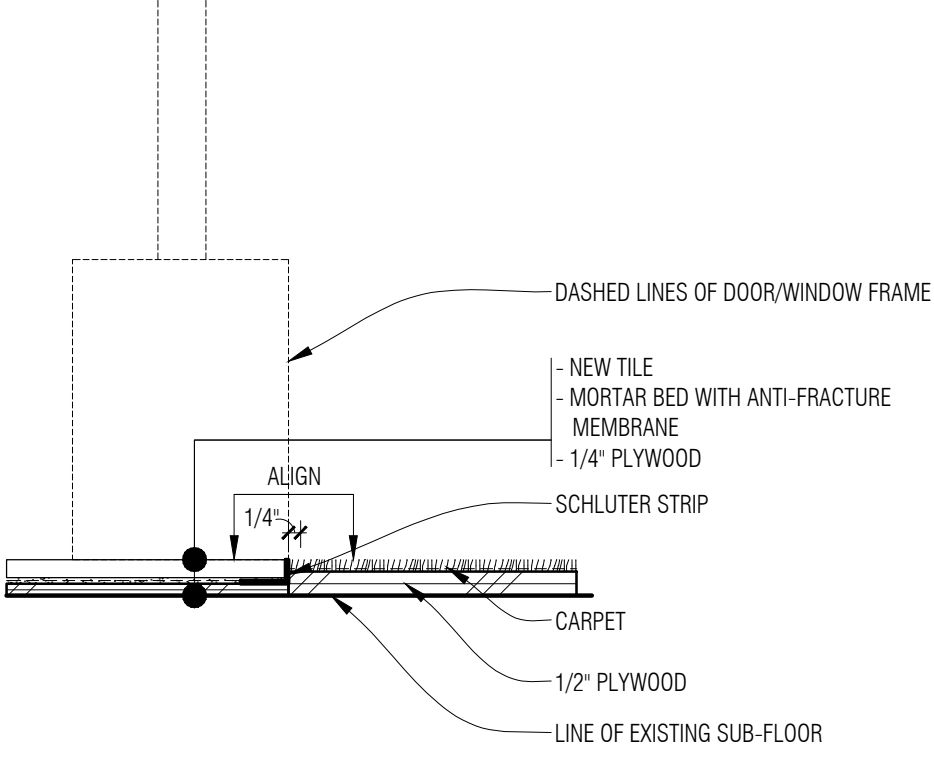
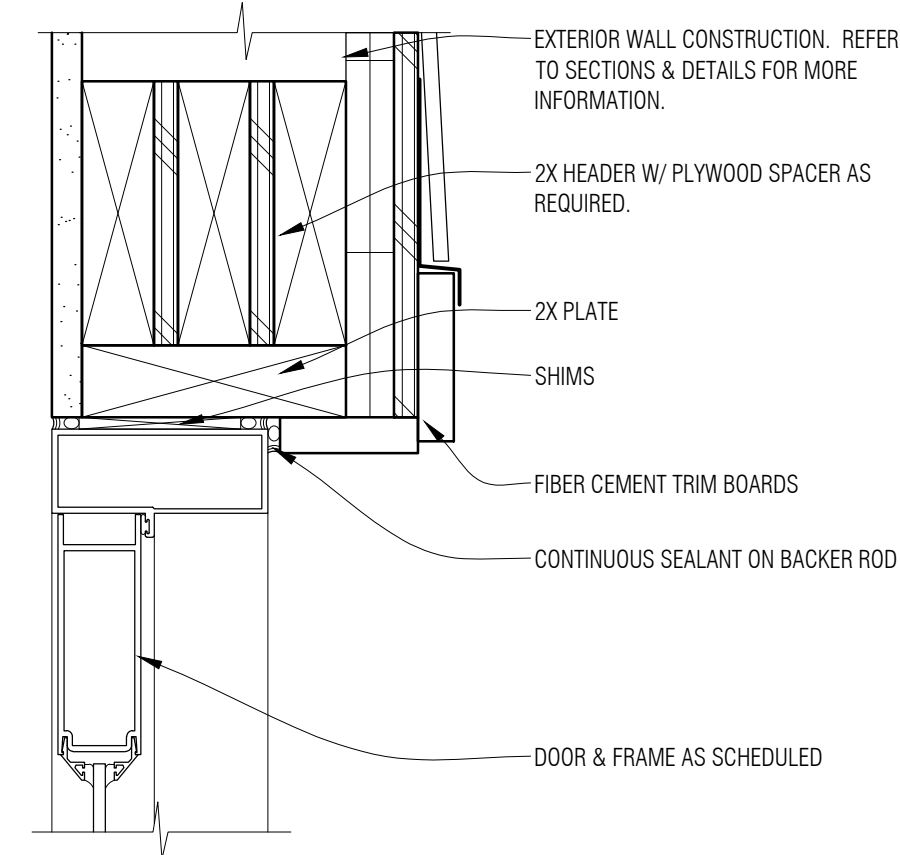
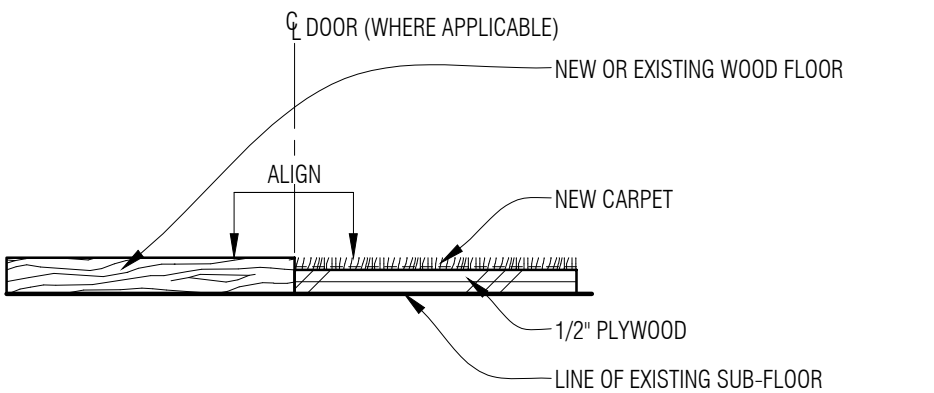
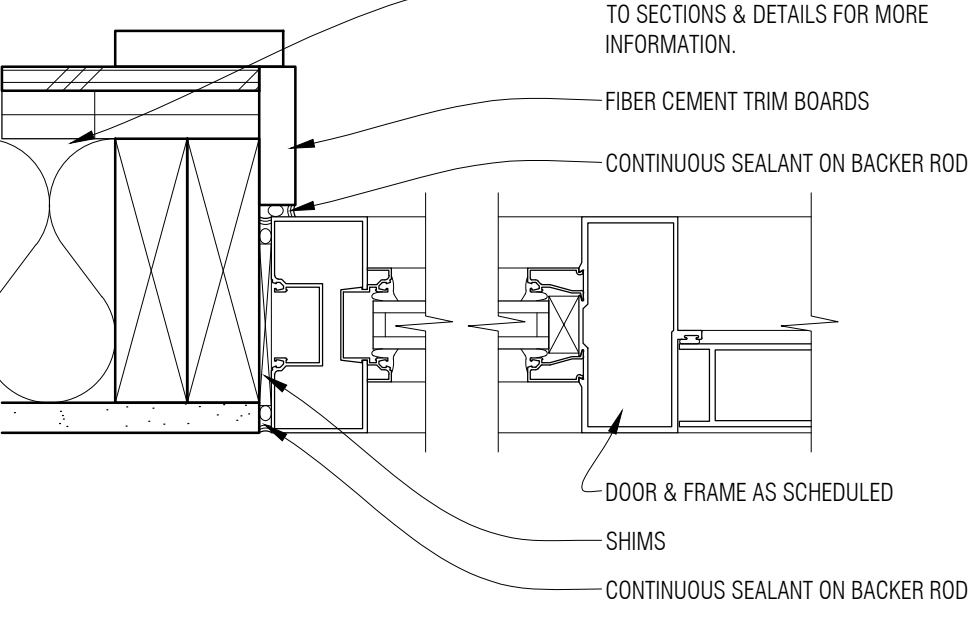
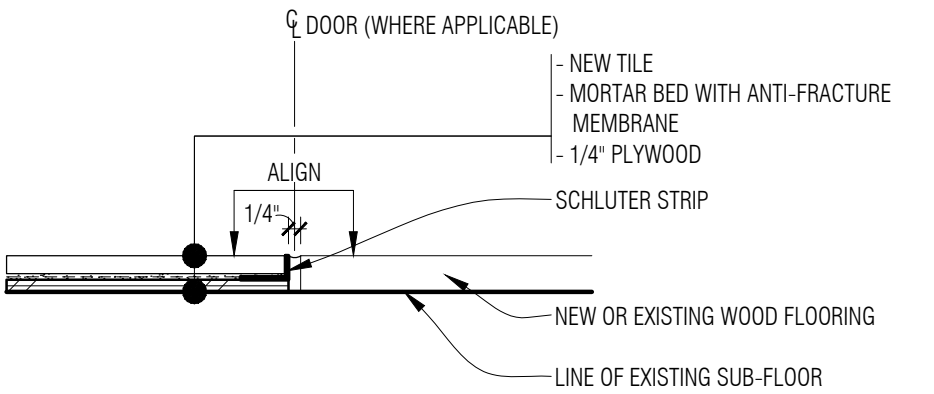
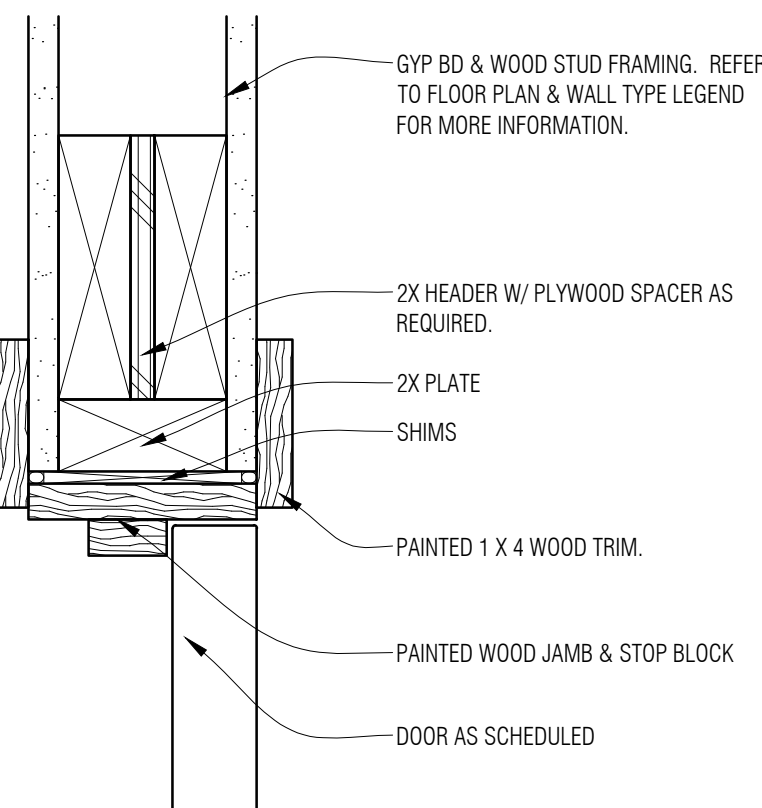
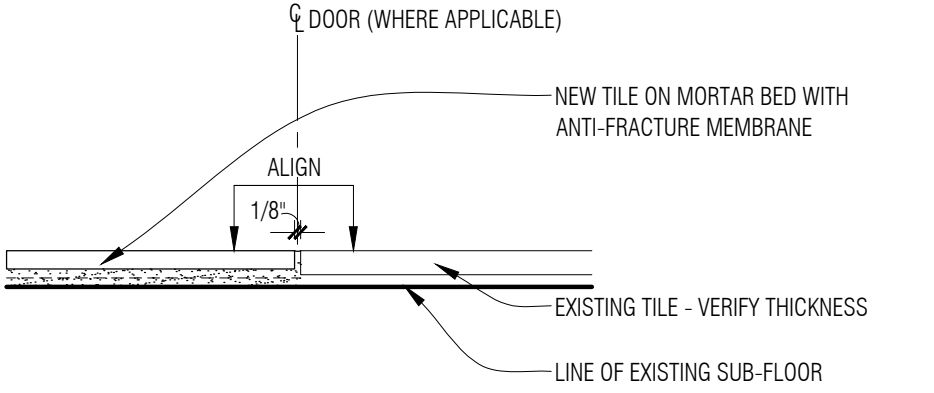
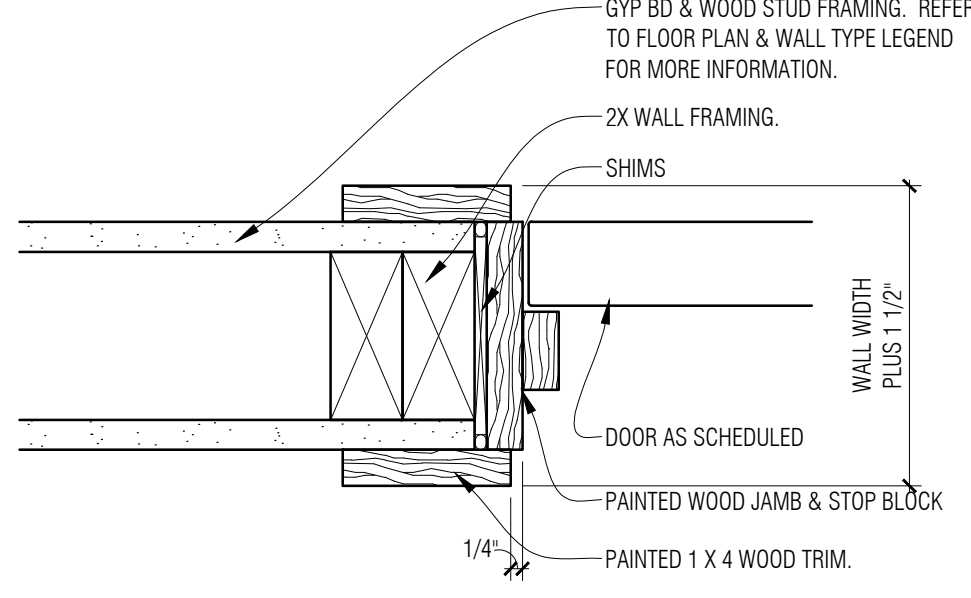
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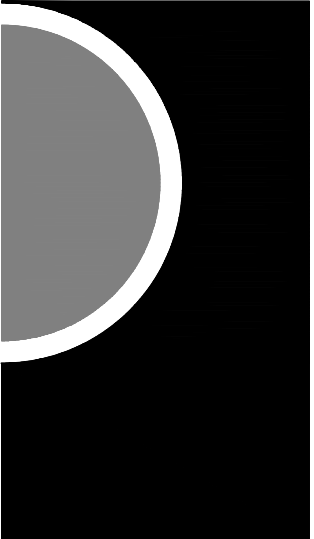
SHEET NAME

SCHEDULES AND
FRAME, DOOR, &
WALL TYPES

SHEET NO.
A0-03

			 <p>TILE TO CARPET 3" = 1'-0" T4</p>		 <p>ALUMINUM HEAD AT STUD WALL 3" = 1'-0" D4</p>
			 <p>WOOD TO CARPET 3" = 1'-0" T3</p>		 <p>ALUMINUM JAMB AT STUD WALL 3" = 1'-0" D3</p>
			 <p>TILE TO WOOD 3" = 1'-0" T2</p>		 <p>WD DOOR HEAD @ STUD WALL 3" = 1'-0" D2</p>
			 <p>NEW TILE TO EXISTING TILE 3" = 1'-0" T1</p>		 <p>WD DOOR JAMB @ STUD WALL 3" = 1'-0" D1</p>

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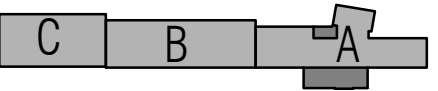
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PROJECT NAME

City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

Addendum #1 01/21/2022

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SHEET NAME

Typical Opening
Details

SHEET NO.

A0-04

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Bidding Construction	12/22/2021
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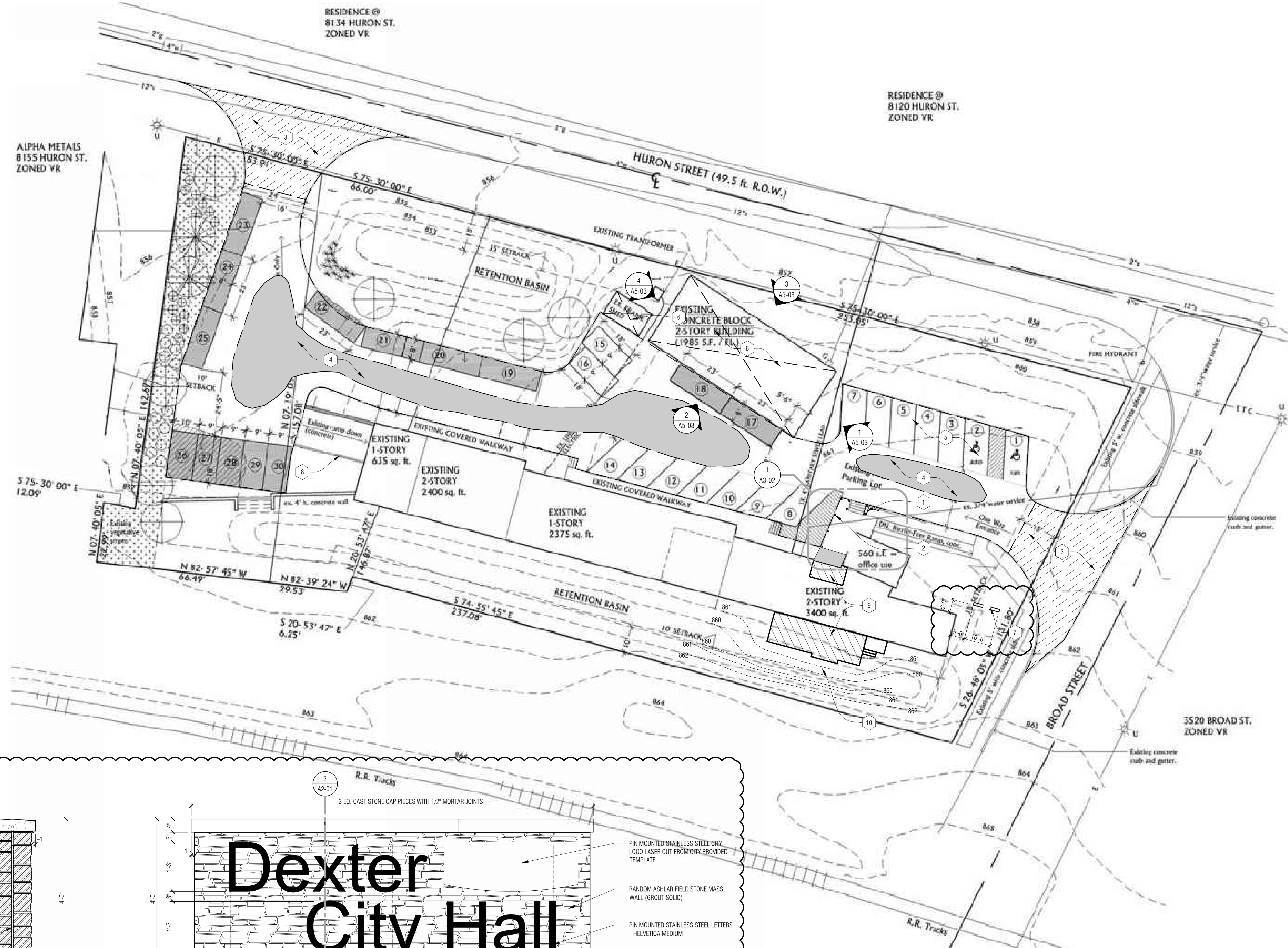
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SHEET NAME

ARCHITECTURAL
SITE PLAN

SHEET NO. _____

A2-01



Architectural Site Plan
1" = 20'

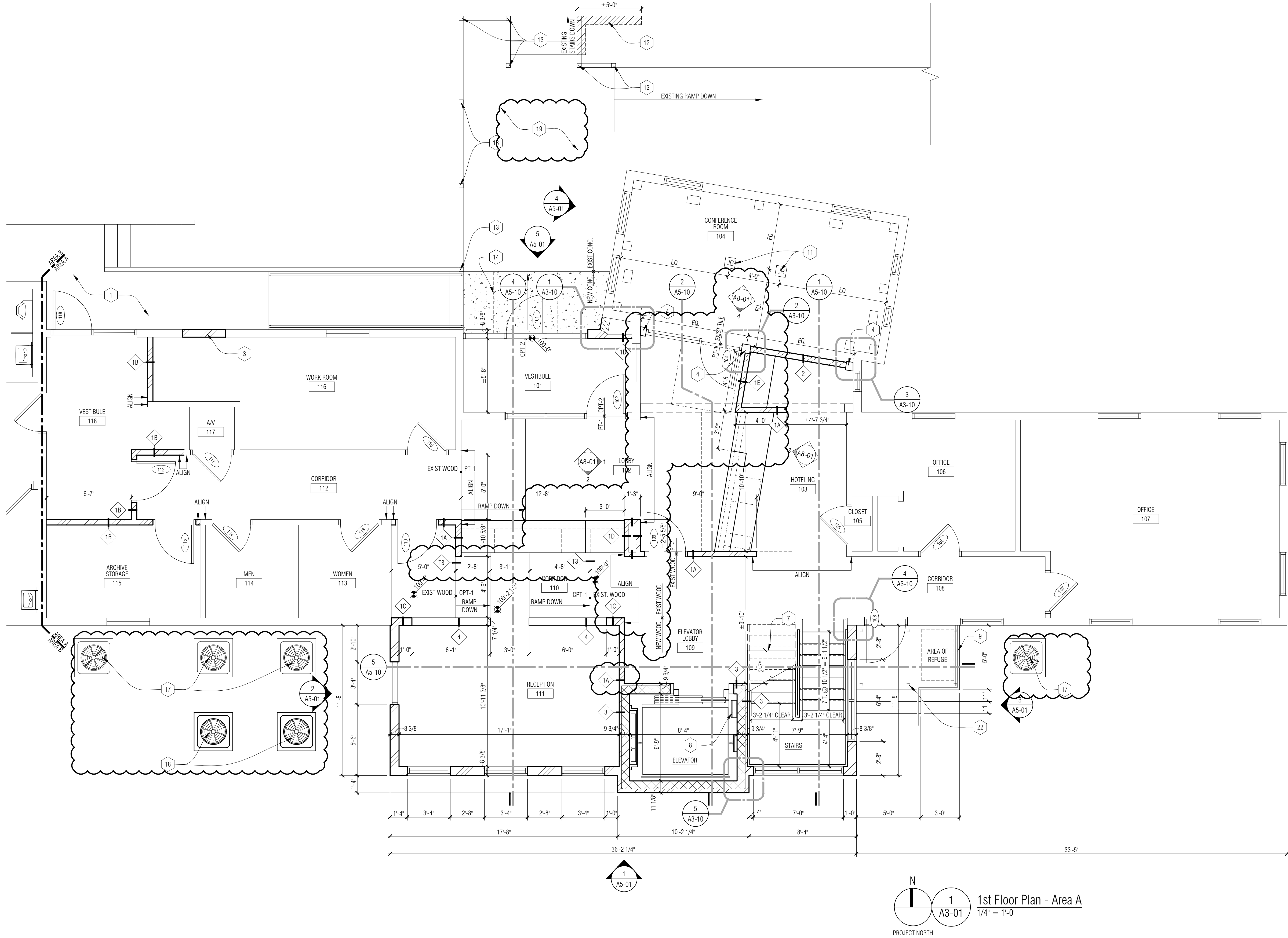
Technical drawing showing a cross-section of a stone wall construction. The wall is composed of several layers and materials, with dimensions and labels indicating the construction details.

Labels and Dimensions:

- CAST STONE CAP SECURED WITH DOWEL RODS EPOXIED INTO CAP AND STONE WALL. (3) DOWELS PER STONE CAP PIECE.** (Indicated by a 1" dimension line at the top)
- PRE-FINISHED METAL FLASHING WITH DRIP EDGE. APPLY CONTINUOUS SEALANT ALONG UNDERSIDE OF DRIP EDGE AND STONE.**
- PIN MOUNTED STAINLESS STEEL LETTERS - HELVETICA MEDIUM** (Two locations indicated)
- PIN MOUNTED STAINLESS STEEL LETTERS - HELVETICA MEDIUM** (Two locations indicated)
- RANDOM ASHLAR FIELD STONE MASS WALL (GROUT SOLID)**
- LINE OF GRADE**
- REINFORCED CONCRETE FOOTING**
- (3) #5 VERTICAL** (Reinforcement bars in the footing)
- (2) #5 @ TOP & BOT.** (Reinforcement bars in the footing)
- 4'-0"** (Total height of the wall section shown)
- 3'-6"** (Height of the stone wall section shown)

3 Monument Sign Section
A2-01 $\frac{3}{4}" = 1'-0"$

2 Monument Sign Elevation
A2-01 $3/4" = 1'-0"$



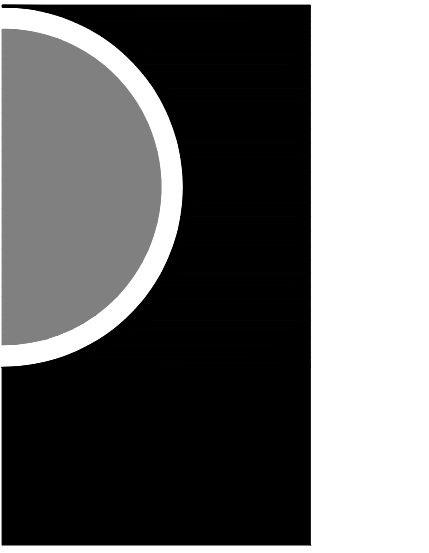
FLOOR PLAN GENERAL NOTES:

- A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL - WALL THICKNESS IS SHOWN AS NOMINAL. SEE WALL TYPES FOR ACTUAL THICKNESS.
- B. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- C. REFER TO SHEET A0-04 FOR FLOOR MATERIAL TRANSITION DETAILS.

FLOOR PLAN KEY NOTES:

- 1 EXISTING WOOD DECK CONSTRUCTION.
- 2 EXISTING DOORS TO BE LOCKED IN CLOSED POSITION. BY OWNER.
- 3 INFILL EXISTING OPENING WITH MATCHING ADJACENT WALL CONSTRUCTION. PREP WALL FOR NEW FINISH.
- 4 NEW 8 X 8 TIMBER COLUMN FINISHED TO MATCH EXISTING TIMBER.
- 5 EXTEND LANDING CONSTRUCTION INTO EXISTING CLOSET TO MAINTAIN FLOOR LEVEL. ADJUST DOOR OPENING HEADER LOCATION TO WORK WITH EXISTING DOOR AT NEW HEIGHT. VERIFY EXISTING DOOR, FRAME, AND HEADER WILL FIT AT NEW HEIGHT.
- 6 NEW WALL CONSTRUCTION TO MATCH HEIGHT OF EXISTING ADJACENT WALLS.
- 7 FLOOR CURB CONSTRUCTION. REFER TO SECTIONS FOR MORE INFORMATION.
- 8 METAL PIT LADDER SECURED TO CMU WALL CONSTRUCTION. REFER TO DETAILS ON SHEET A3-10 FOR MORE INFORMATION.
- 9 1" X 6" DECK BOARDS ON 2" X 8" WOOD JOISTS @ 16" O.C. WITH 4" X 4" WOOD POSTS. SET POSTS MINIMUM 42" BELOW GRADE. ALL WOOD TO BE PRESERVATIVE TREATED. GALVANIZED 1 1/2" O.D. STEEL PIPE RAIL AND POSTS. ANCHOR TO WOOD DECK WITH EXPOSED BASE PLATE AS REQUIRED.
- 10 NEW STEEL COLUMN WITH GYP BD SURROUND. REFER TO STRUCT.
- 11 POWER & DATA FLOOR BOX. COORDINATE FLOOR LOCATIONS WITH OWNERS FURNITURE PLACEMENT PRIOR TO INSTALLATION. SEE ELECTRICAL.
- 12 REBUILD MASONRY RETAINING WALL CORNER AT CRACKED EXISTING ASSEMBLY. REMOVE & RESET MASONRY ALONG LENGTH OF STAIR AND FOR ±5'-0" ALONG THE NORTH ELEVATION. PROVIDE ELASTOMERIC SEALANT & BACKER ROD AT ALL CRACKS IN EXISTING CONCRETE STAIR.
- 13 REMOVE ALL CORRODED STEEL BASE PLATES ANCHOR BRACKETS AT BOTTOM OF EACH WOOD POST IN EXISTING GUARDRAIL. REMOVE RUST STAINS FROM CONCRETE. REPLACE BRACKETS WITH GALVANIZED BRACKETS OF SIMILAR DESIGN. THRU BOLT BRACKETS TO WOOD POST TO ENSURE SOLID, STABLE CONNECTION. PROVIDE ASPHALT ISOLATION BETWEEN BRACKET & CONCRETE. ANCHOR BRACKET TO CONCRETE WITH EXPANSION ANCHORS SET IN EPOXY.
- 14 NEW SUPPORTED SLAB CONCRETE WALK PITCHING AWAY FROM ENTRY DOOR. MATCH ELEVATIONS OF ADJACENT DECK AND CONCRETE WALK. REFER TO STRUCTURAL DETAILS.
- 15 NEW WINDOW TO MATCH EXISTING EXTERIOR WINDOWS WITH FIXED SASH & SINGLE PANE GLAZING.
- 16 12" X 12" X 18" SUMP WITH GRATE COVER. REFER TO STRUCTURAL FOR CONCRETE REINFORCING INFORMATION.
- 17 EXISTING MECHANICAL UNIT TO REMAIN. PROTECT DURING CONSTRUCTION.
- 18 EXISTING MECHANICAL UNITS RELOCATED. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 19 EXISTING CONCRETE WALK PITCHED TO EXISTING DRAINAGE.
- 20 ELEVATOR CONTROL BUTTONS LOCATED PER ELEVATOR MANUFACTURER. SEE ALSO A0-01 FOR MOUNTING HEIGHTS.
- 21 REINFORCED CONCRETE FOOTING WITH SUPPORTED SLAB. REFER TO STRUCTURAL DRAWINGS.
- 22 4X4 DECK SUPPORT POSTS BELOW.
- 23 REPAIR WOOD FLOOR AS REQUIRED AT LOCATION OF REMOVED WALL WITH MATCHING WOOD FLOOR.
- 24 LINE OF WALL CONSTRUCTION / WINDOW FRAME BELOW.
- 25 SUSPENDED LED LIGHT FIXTURE BELOW. REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS FOR MORE INFO.

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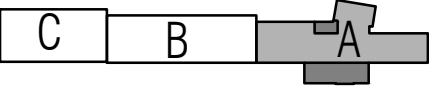
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KEY PLAN



OWNER

City of Dexter

PROJECT NAME
City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

New Elevator- Ref Only	12/22/2021
Bidding Construction	12/22/2021
Addendum #1	01/21/2022

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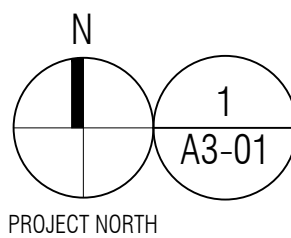
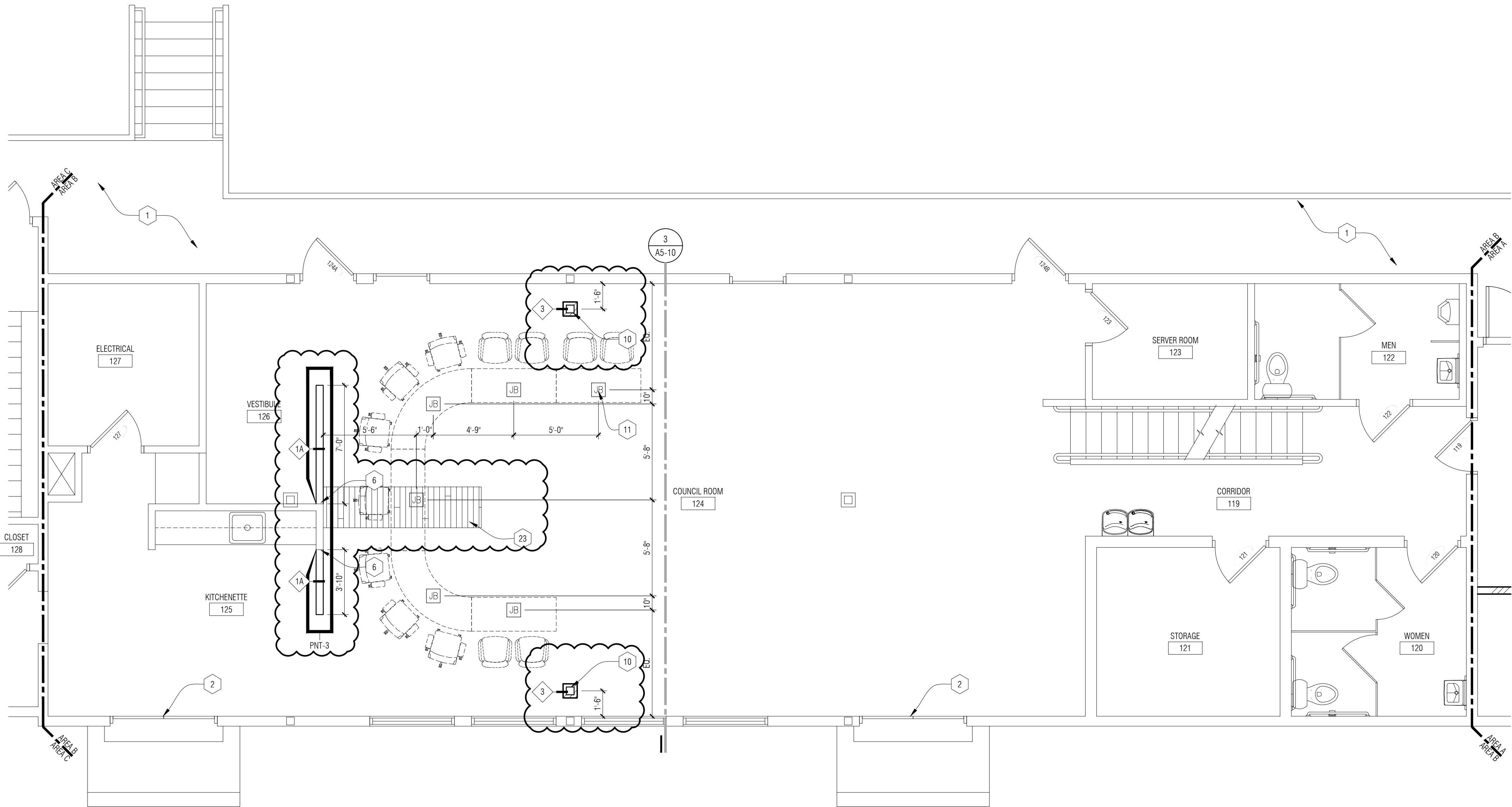
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SHEET NAME

1ST FLOOR
PLAN - AREA A

SHEET NO.
A3-02



1st Floor Plan - Area B
1/4" = 1'-0"

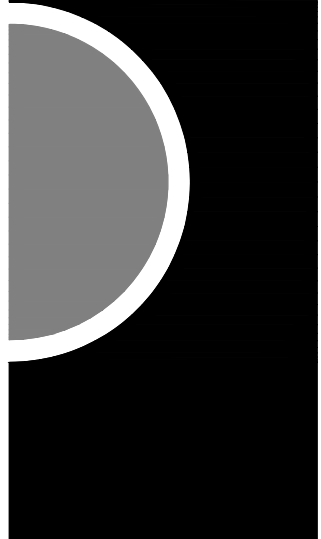
FLOOR PLAN GENERAL NOTES:

- A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL - WALL THICKNESS IS SHOWN AS NOMINAL. SEE WALL TYPES FOR ACTUAL THICKNESS.
- B. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- C. REFER TO SHEET A0-04 FOR FLOOR MATERIAL TRANSITION DETAILS.

FLOOR PLAN KEY NOTES:

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- 2 EXISTING DOORS TO BE LOCKED IN CLOSED POSITION. BY OWNER.
- 3 INFILL EXISTING OPENING WITH MATCHING ADJACENT WALL CONSTRUCTION. PREP WALL FOR NEW FINISH.
- 4 NEW 8 X 8 TIMBER COLUMN FINISHED TO MATCH EXISTING TIMBER.
- 5 EXTEND LANDING CONSTRUCTION INTO EXISTING CLOSET TO MAINTAIN FLOOR LEVEL. ADJUST DOOR OPENING HEADER LOCATION TO WORK WITH EXISTING DOOR AT NEW HEIGHT. VERIFY EXISTING DOOR, FRAME, AND HEADER WILL FIT AT NEW HEIGHT.
- 6 NEW WALL CONSTRUCTION TO MATCH HEIGHT OF EXISTING ADJACENT WALLS.
- 7 FLOOR CURB CONSTRUCTION. REFER TO SECTIONS FOR MORE INFORMATION.
- 8 METAL PIT LADDER SECURED TO CMU WALL CONSTRUCTION. REFER TO DETAILS ON SHEET A3-10 FOR MORE INFORMATION.
- 9 1" X 6" DECK BOARDS ON 2" X 8" WOOD JOISTS @ 16" O.C. WITH 4" X 4" WOOD POSTS. SET POSTS MINIMUM 42" BELOW GRADE. ALL WOOD TO BE PRESERVATIVE TREATED. GALVANIZED 1 1/2" O.D. STEEL PIPE RAIL AND POSTS. ANCHOR TO WOOD DECK WITH EXPOSED BASE PLATE AS REQUIRED.
- 10 NEW STEEL COLUMN WITH GYP BD SURROUND. REFER TO STRUCT.
- 11 POWER & DATA FLOOR BOX. COORDINATE FLOOR LOCATIONS WITH OWNERS FURNITURE PLACEMENT PRIOR TO INSTALLATION. SEE ELECTRICAL.
- 12 REBUILD MASONRY RETAINING WALL CORNER AT CRACKED EXISTING ASSEMBLY. REMOVE & RESET MASONRY ALONG LENGTH OF STAIR AND FOR ±5'-0" ALONG THE NORTH ELEVATION. PROVIDE ELASTOMERIC SEALANT & BACKER ROD AT ALL CRACKS IN EXISTING CONCRETE STAIR.
- 13 REMOVE ALL CORRODED STEEL BASE PLATES ANCHOR BRACKETS AT BOTTOM OF EACH WOOD POST IN EXISTING GUARDRAIL. REMOVE RUST STAINS FROM CONCRETE. REPLACE BRACKETS WITH GALVANIZED BRACKETS OF SIMILAR DESIGN. THRU BOLT BRACKETS TO WOOD POST TO ENSURE SOLID, STABLE CONNECTION. PROVIDE ASPHALT ISOLATION BETWEEN BRACKET & CONCRETE. ANCHOR BRACKET TO CONCRETE WITH EXPANSION ANCHORS SET IN EPOXY.
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- 16 12" X 12" X 18" SUMP WITH GRATE COVER. REFER TO STRUCTURAL FOR CONCRETE REINFORCING INFORMATION.
- 17 EXISTING MECHANICAL UNIT TO REMAIN. PROTECT DURING CONSTRUCTION.
- 18 EXISTING MECHANICAL UNITS RELOCATED. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 19 EXISTING CONCRETE WALK PITCHED TO EXISTING DRAINAGE.
- 20 ELEVATOR CONTROL BUTTONS LOCATED PER ELEVATOR MANUFACTURER. SEE ALSO A0-01 FOR MOUNTING HEIGHTS.
- 21 REINFORCED CONCRETE FOOTING WITH SUPPORTED SLAB. REFER TO STRUCTURAL DRAWINGS.
- 22 4X4 DECK SUPPORT POSTS BELOW.
- 23 REPAIR WOOD FLOOR AS REQUIRED AT LOCATION OF REMOVED WALL WITH MATCHING WOOD FLOOR.
- 24 LINE OF WALL CONSTRUCTION / WINDOW FRAME BELOW.
- 25 SUSPENDED LED LIGHT FIXTURE BELOW. REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS FOR MORE INFO.

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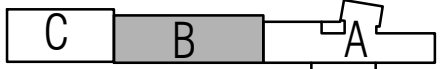
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CONSULTANT

KEY PLAN



OWNER

City of Dexter

PROJECT NAME

City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

Bidding Construction 12/22/2021
Addendum #1 01/21/2022

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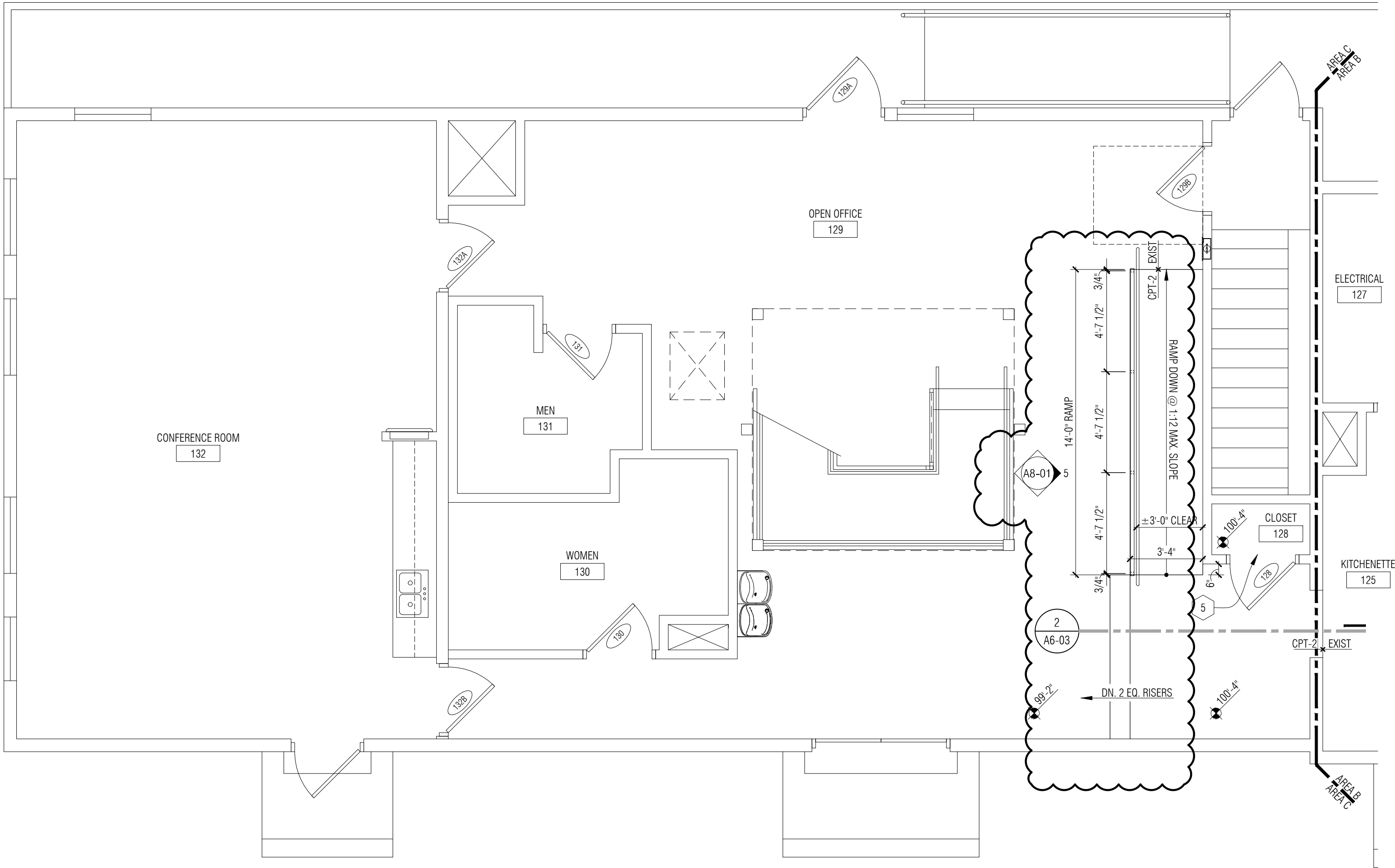
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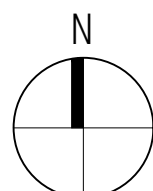
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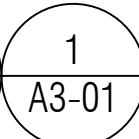
1ST FLOOR
PLAN - AREA B

SHEET NO.

A3-03




PROJECT NORTH

 1
A3-01

1st Floor Plan - Area C
1/4" = 1'-0"

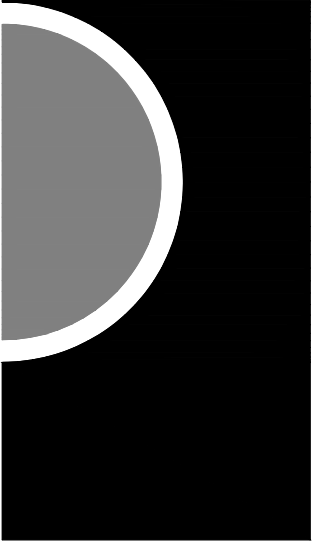
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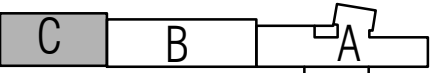
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PROJECT NO.

21-113

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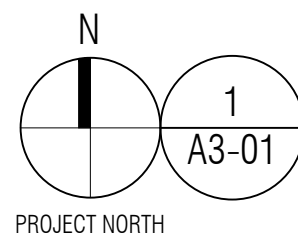
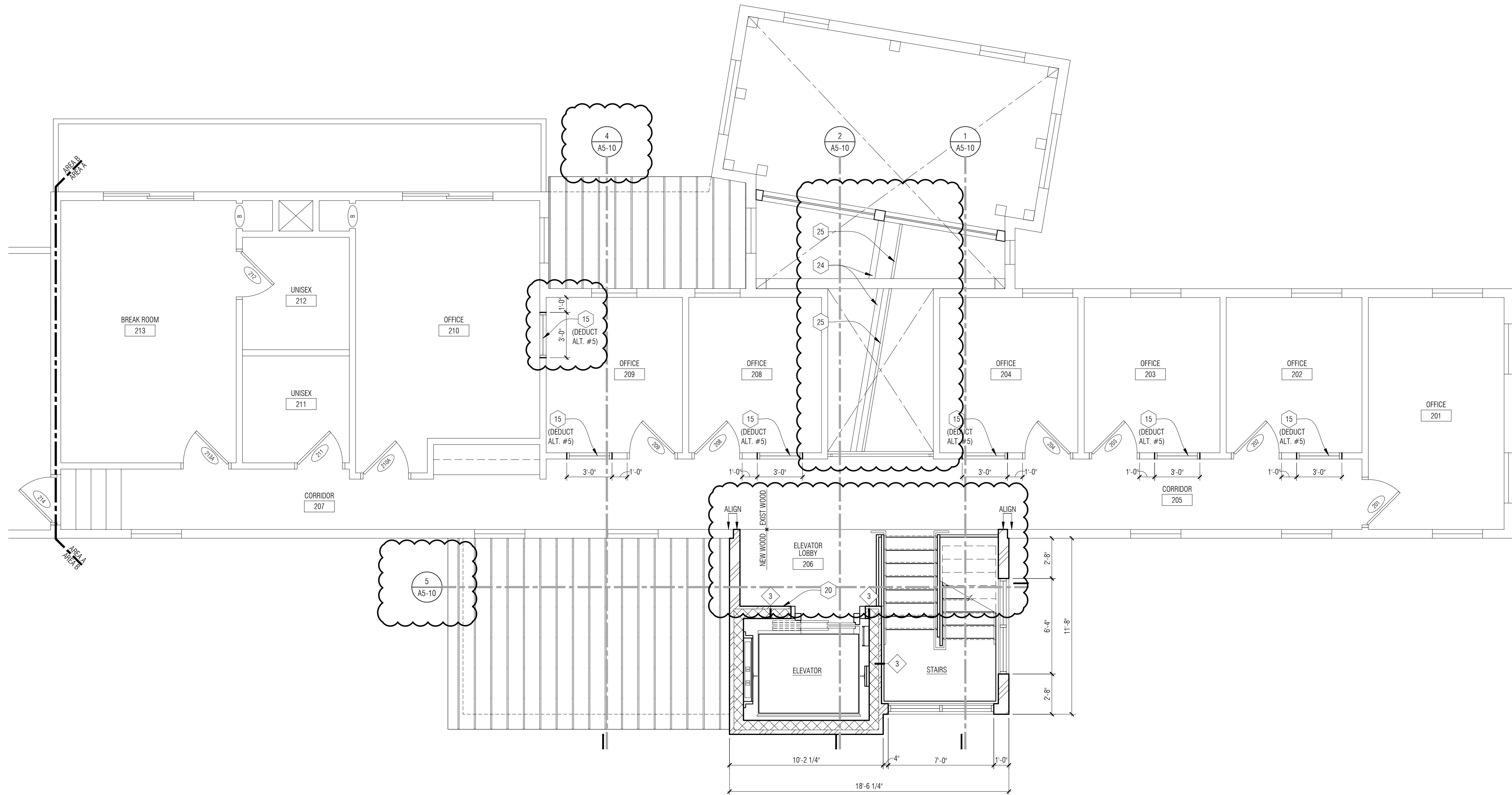
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SHEET NAME

1ST FLOOR
PLAN - AREA C

SHEET NO.

A3-04



2nd Floor Plan - Area A
1/4" = 1'-0"

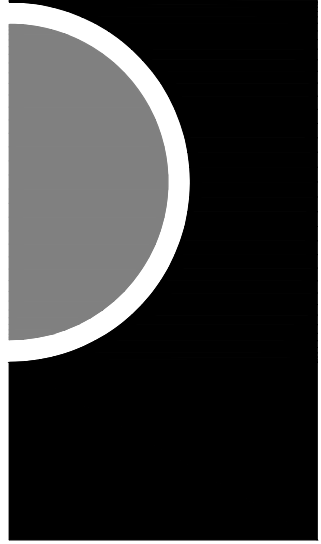
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MOUNT CLEMENS, MI 48043
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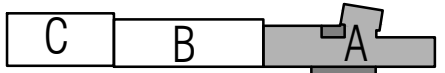
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CONSULTANT

KEY PLAN



OWNER

City of Dexter

PROJECT NAME

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3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

New Elevator- Ref Only	12/22/2021
Bidding Construction	12/22/2021
Addendum #1	01/21/2022

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DWG

SHEET NAME

2ND FLOOR
PLAN - AREA A

SHEET NO.

A3-05

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MOUNT CLEMENS, MI 48043
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KEY PLAN

City of Dexter

3515 Broad St.
Dexter, MI 48130

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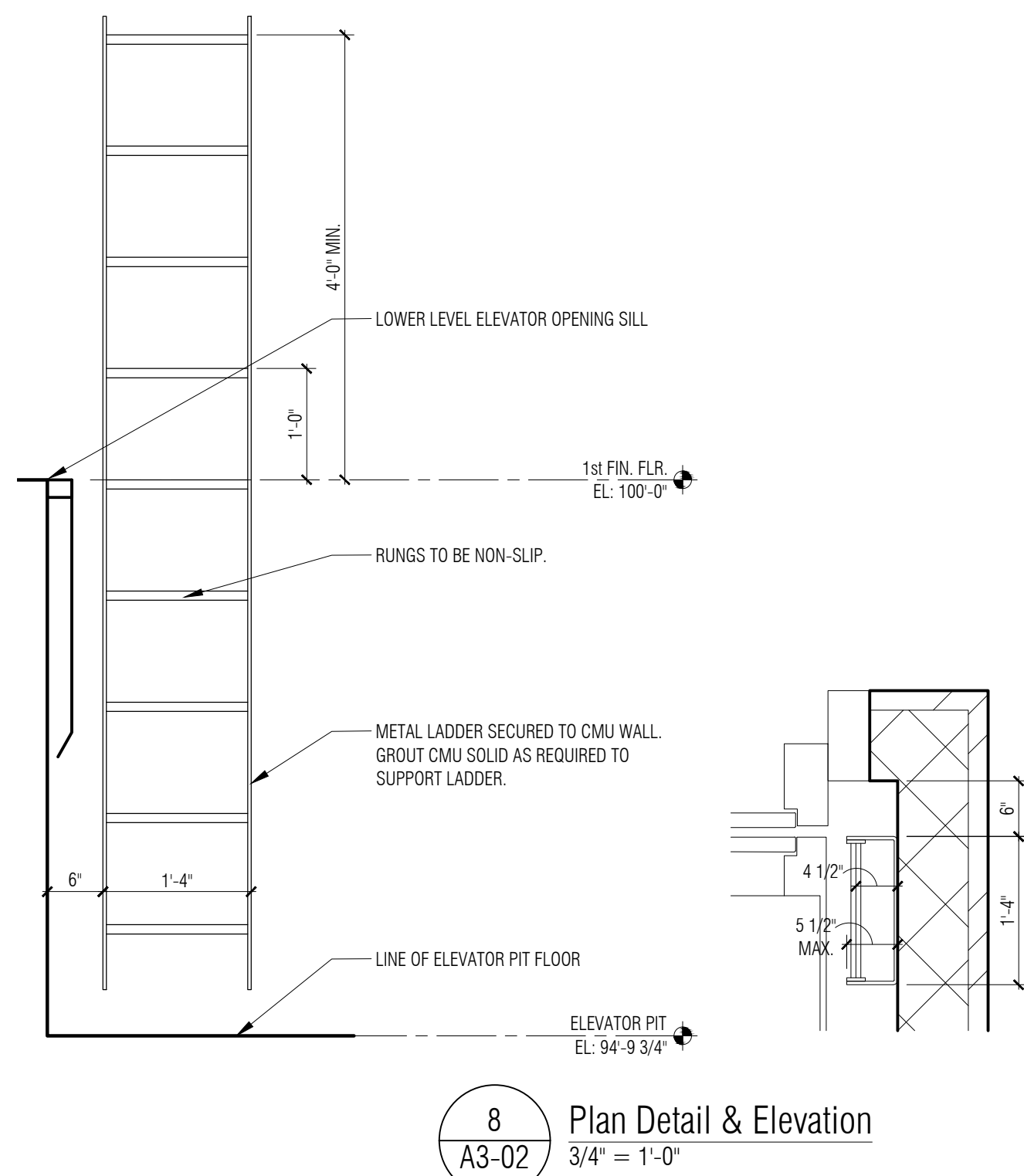
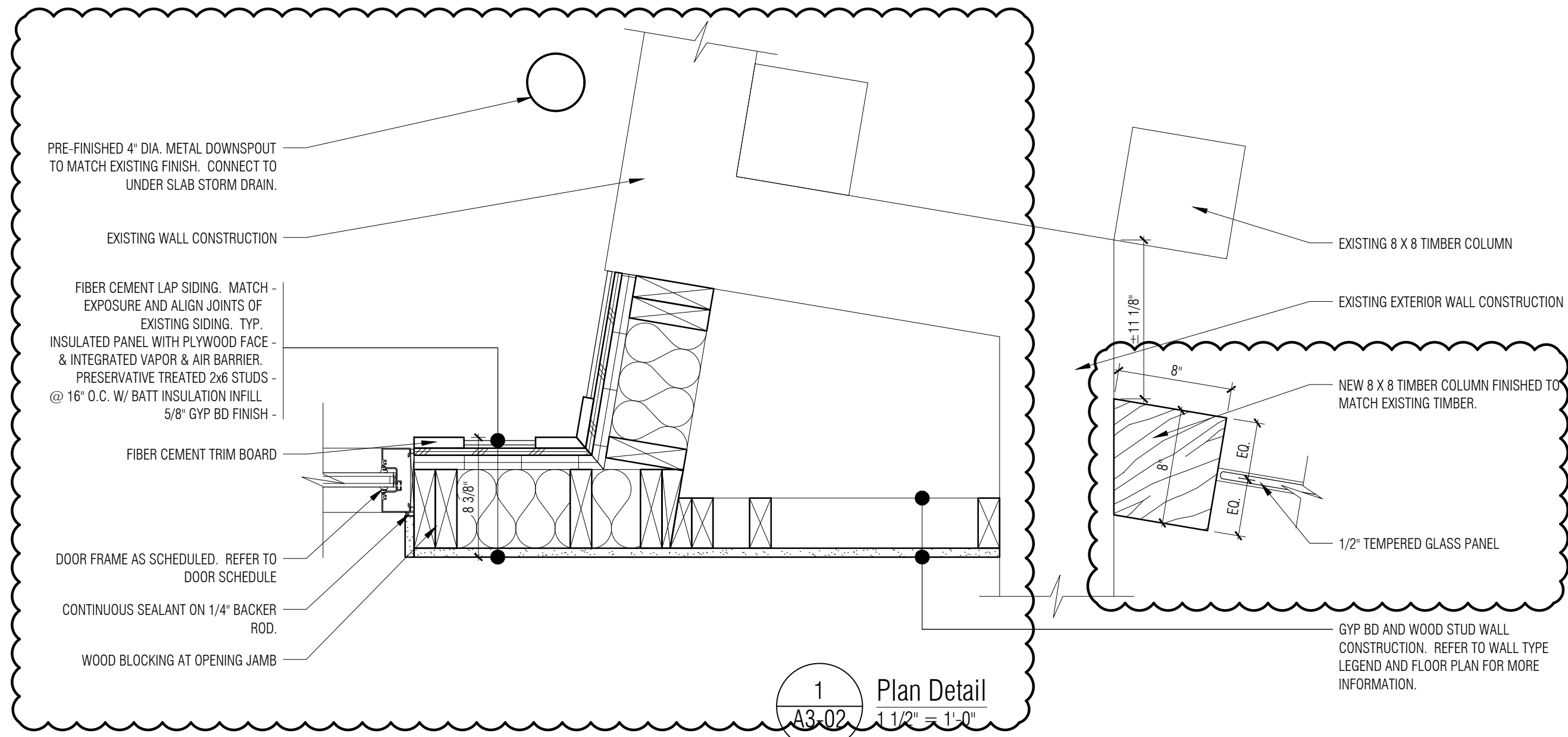
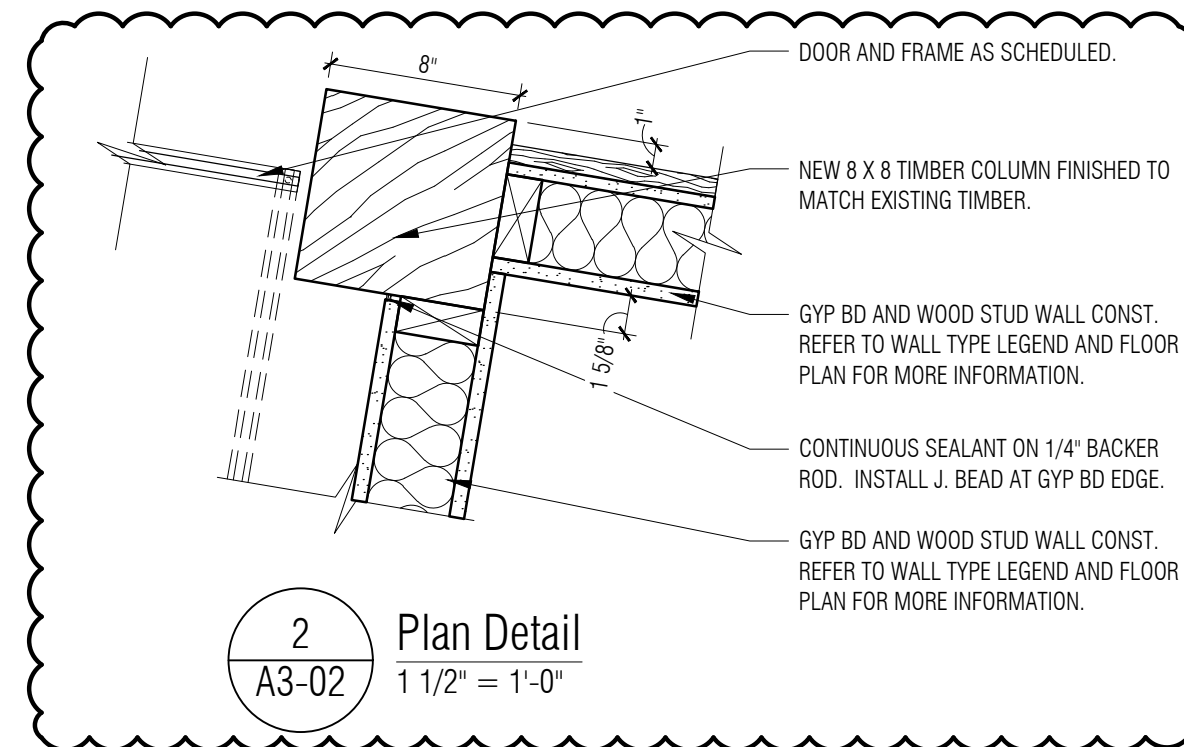
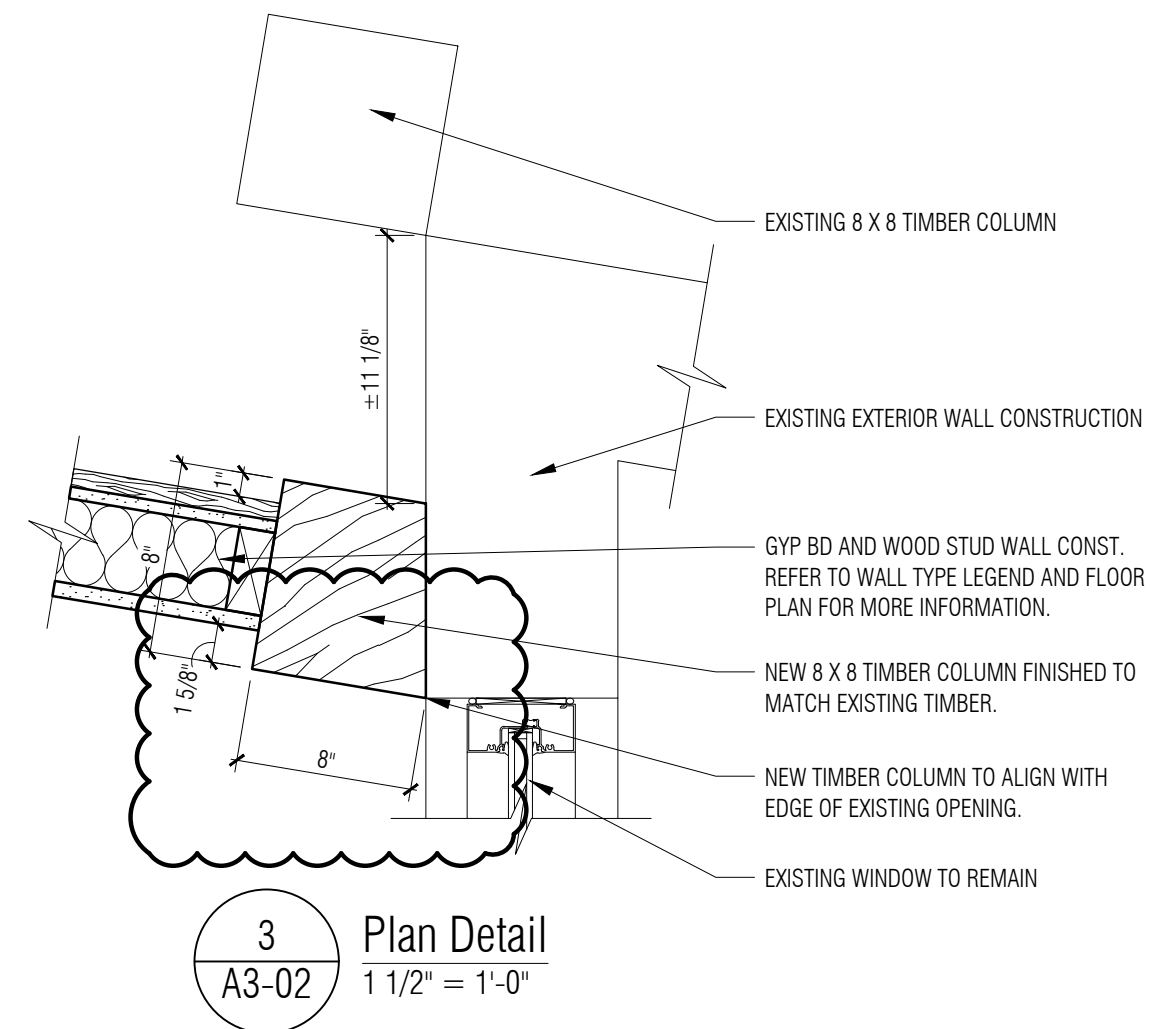
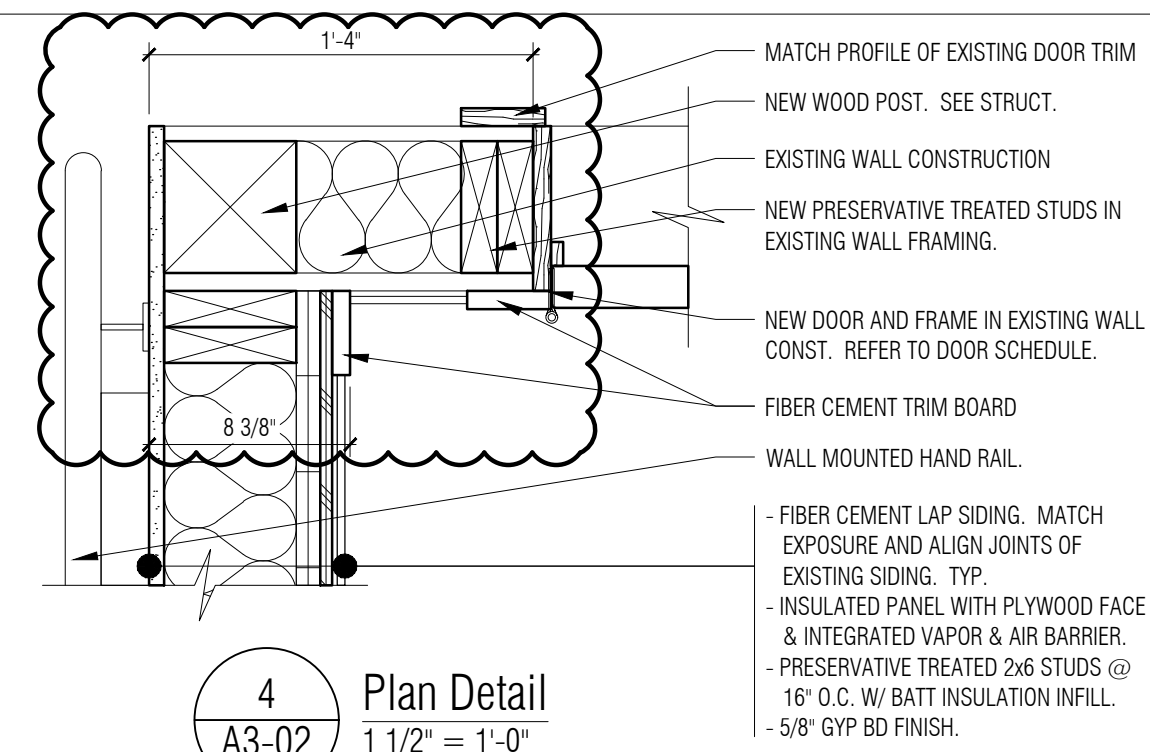
Bidding Construction	12/22/2021
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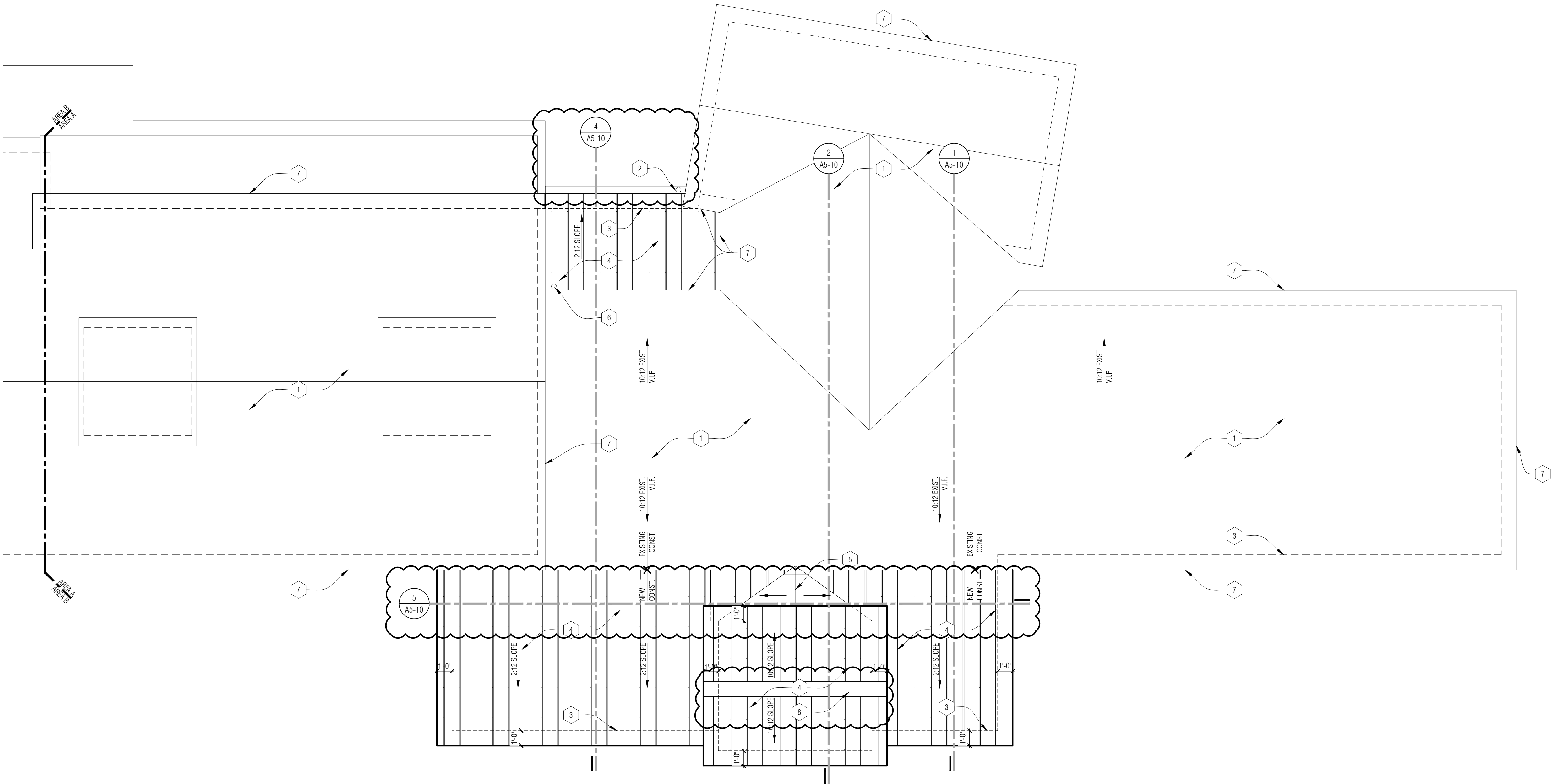
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PLAN DETAILS

A3-10





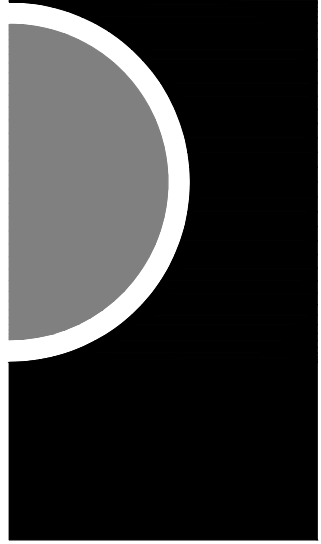
ROOF PLAN - GENERAL NOTES:

- A. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION FOR ROOF RELATED ITEMS.
- B. ALL MODIFICATIONS TO EXISTING ROOFING SYSTEMS ARE TO MAINTAIN ROOF WARRANTIES.

ROOF PLAN - KEY NOTES:

- 1 EXISTING ROOF CONSTRUCTION TO REMAIN.
- 2 PRE-FINISHED METAL GUTTER & DOWNSPOUT TO MATCH EXISTING DESIGN AND FINISH. DOWNSPOUT TO BE 4" MIN. DIA. CONNECT TO UNDER SLAB STORM DRAIN.
- 3 LINE OF BUILDING BELOW.
- 4 PRE-FINISHED STANDING SEAM METAL ROOF ON ICE & WATER SHIELD UNDERLAYMENT
- 5 ROOF CRICKET BEHIND ELEVATOR. VERIFY SLOPE IN FIELD.
- 6 EXISTING DOWNSPOUT. CUT OFF LOWER PORTION AT NEW VESTIBULE ADDITION MIN 4" ABOVE NEW ROOF DECK.
- 7 RESET AS REQUIRED AND SET IN SEALANT. ALL LOOSE, EXPOSED METAL FASTENERS ALONG EXISTING DRIP EDGE OF STANDING SEAM METAL ROOF. TYPICAL FOR ALL EXISTING ROOF EDGES ON AREAS A & B OF BUILDING. ASSUME 250 LINEAL FEET OF ROOF EDGE IS AFFECTED.
- 8 PRE-FINISHED METAL RIDGE CAP TO MATCH STANDING SEAM METAL ROOF.

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MOUNT CLEMENS, MI 48043
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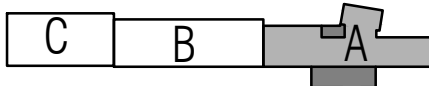
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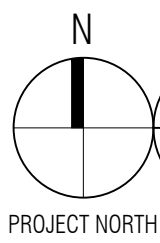
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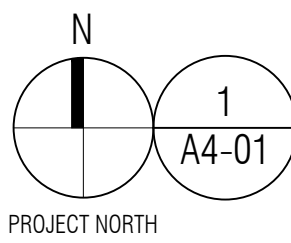
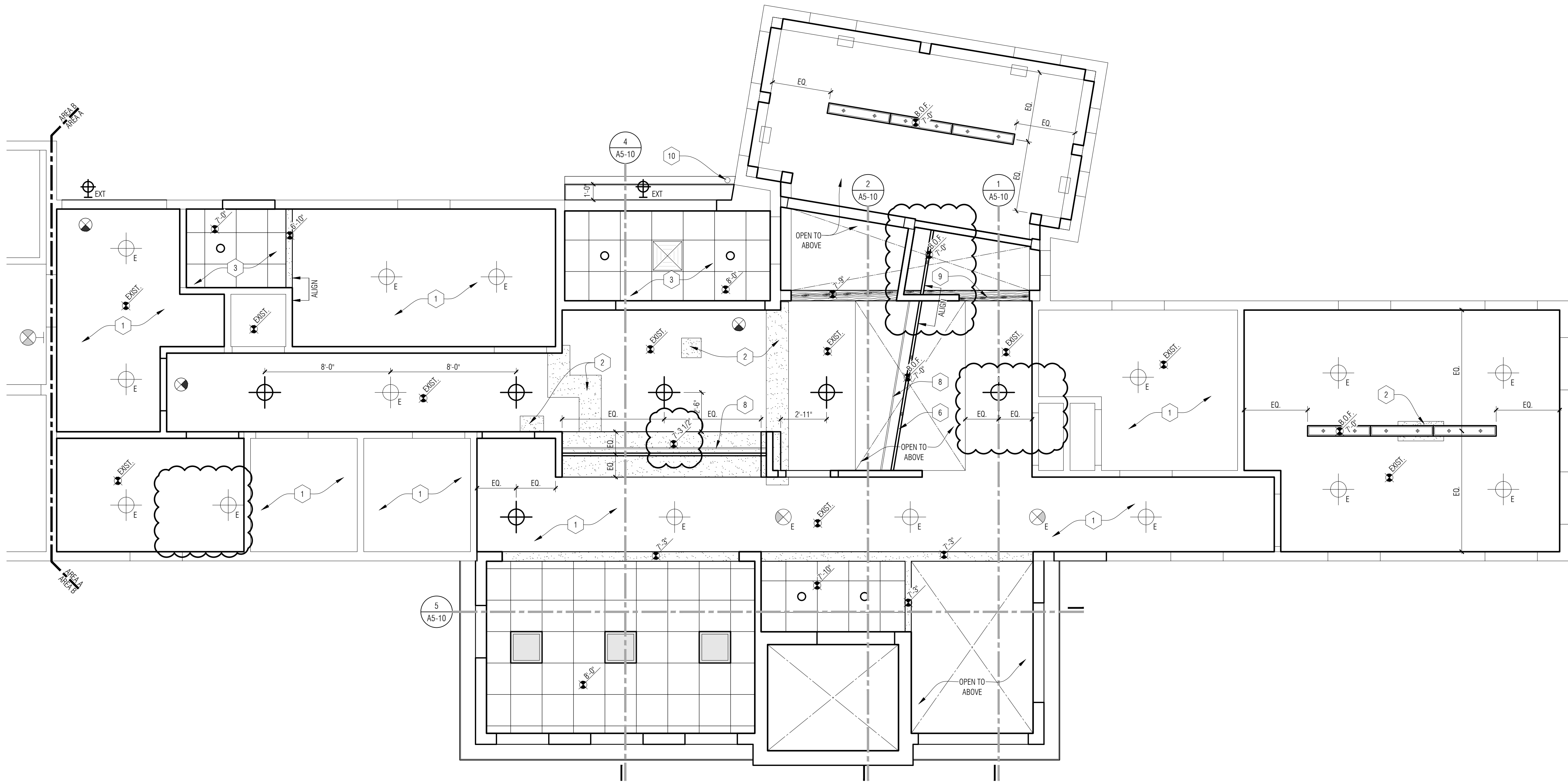
ROOF PLAN -
AREA A

SHEET NO.

A3-22



1
A3-21
Roof Plan - Area A
1/4" = 1'-0"



1st Floor Reflected Ceiling Plan - Area A
1/4" = 1'-0"

CEILING PLAN GENERAL NOTES:

- A. REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS
- B. REFER TO ELECTRICAL FOR LIGHT FIXTURE AND ELECTRICAL INFORMATION.
- C. REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND RETURNS
- D. ALL LOWER LEVEL CEILING HEIGHTS ARE SHOWN AS HEIGHT ABOVE 100'-0" FLOOR ELEVATION.
- E. ALL FIXTURES & GRIDS ARE TO BE CENTERED WITHIN ROOM U.O.N.

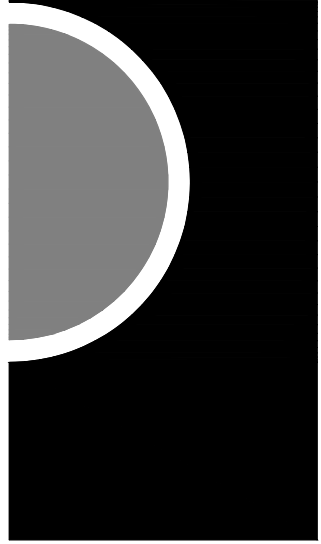
CEILING PLAN KEY NOTES:

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- 2 PATCH & REPAIR EXISTING CEILING AS REQUIRED AT LOCATIONS OF REMOVED PARTITIONS. TO BE FLUSH WITH EXISTING CEILING. TYP.
- 3 2x2 LAY-IN CEILING SYSTEM. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
- 4 LINE OF CUPOLA ABOVE - REFER TO PLAN
- 5 LINE OF EXISTING STAIR OPENING.
- 6 SUSPENDED LIGHT FIXTURE TO BE CENTERED OVER MILLWORK BELOW.
- 7 CENTER FIXTURE ON EXISTING BEAM ABOVE.
- 8 SUSPENDED ALUMINUM STOREFRONT SYSTEM WITH SINGLE PANE TEMPERED GLASS
- 9 NEW WOOD BEAM. FINISH TO MATCH EXISTING TIMBER FINISHED SEE STRUCT
- 10 NEW GUTTER AND DOWNSPOUT TO MATCH EXISTING PROFILE & COLOR. DOWNSPOUT TO BE 4" MIN. DIA. CONNECT TO UNDER SLAB STORM DRAIN.
- 11 EXISTING FIXTURE RELOCATED FROM ROOM 132 IN AREA C. FIELD VERIFY MOUNTING & SUSPENSION REQUIREMENTS. BOTTOM OF FIXTURE @ 6'-8" ABOVE LANDING MIN.
- 12 NEW STEEL BEAM CLAD TO MATCH EXISTING BEAMS IN COUNCIL ROOM 124. DEDUCT ALTERNATE #3. BASE-BID: EXISTING BEAM AND COLUMN TO REMAIN.

Ceiling Symbols Legend

ALL FIXTURES WITH AN ADJACENT "E" ON THE PLAN INDICATE THE FIXTURES ARE EXISTING TO REMAIN.	
	5/8" GYP BD ON 3 5/8" METAL STUD CONSTRUCTION AT 16" O.C. SECURE TO STRUCTURE ABOVE AT 48" O.C. MAX EACH WAY
	NEW 2 X 2 RECESSED LED FIXTURE
	NEW SUSPENDED UPDOWN LINEAR LED
	SUSPENDED TRACK LIGHT W/ ADJUSTABLE HEADS MOUNTED ON METAL STRUT CHANNEL
	RECESSED LINEAR LED FIXTURE
	SUSPENDED LINEAR LED FIXTURE
	RECESSED ROUND LIGHT FIXTURE
	WALL SCONCE (EXT INDICATES EXTERIOR FIXTURE)
	EXIT LIGHT - CEILING MOUNTED
	EXIT LIGHT - WALL MOUNTED
	EXISTING CEILING FAN
	SURFACE MOUNTED LIGHT FIXTURE (P INDICATES PENDANT FIXTURE)

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MOUNT CLEMENS, MI 48043
P 586.469.3600

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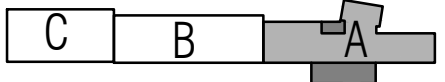
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CONSULTANT

KEY PLAN



OWNER

City of Dexter

PROJECT NAME

City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

Bidding Construction 12/22/2021
Addendum #1 01/21/2022

DRAWN BY

CWP

CHECKED BY

SL

APPROVED BY

DWG

SHEET NAME

1ST FLOOR

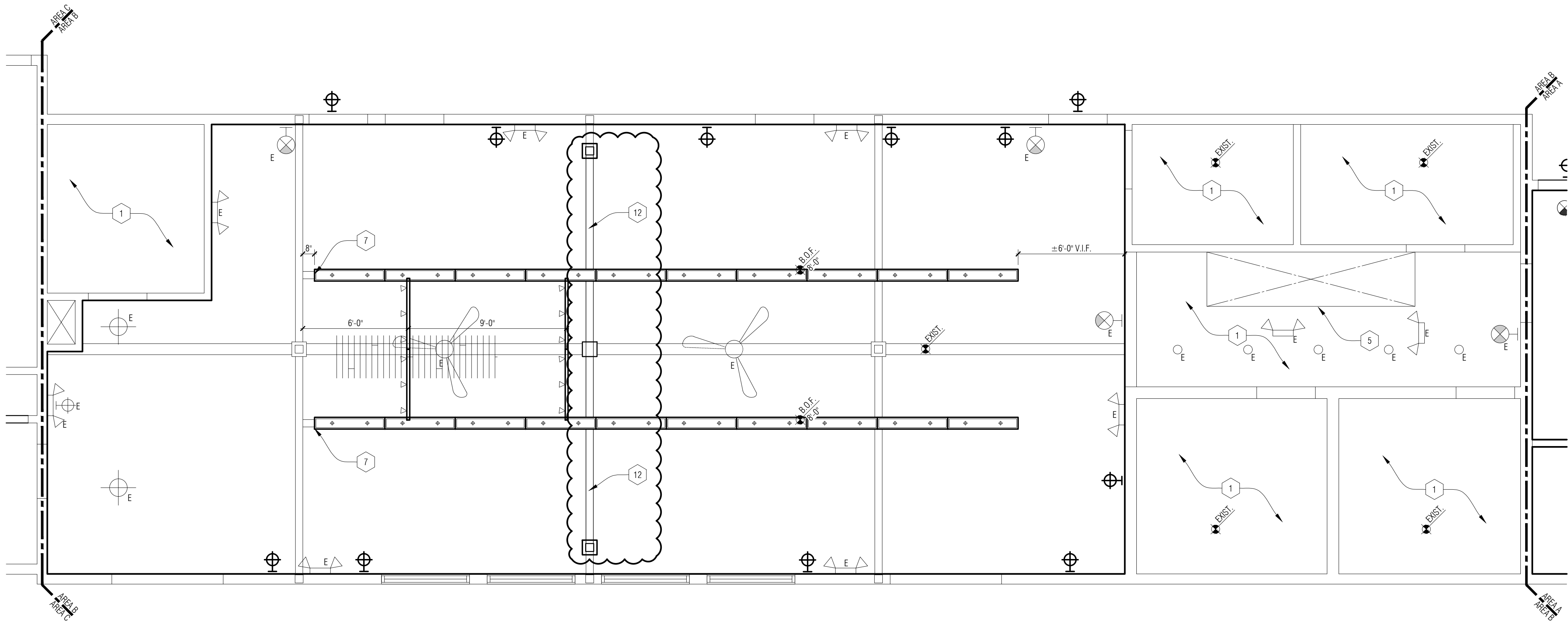
REFLECTED

CEILING PLAN -

AREA A

SHEET NO.

A4-02



CEILING PLAN GENERAL NOTES:

- A. REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS
- B. REFER TO ELECTRICAL FOR LIGHT FIXTURE AND ELECTRICAL INFORMATION.
- C. REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND RETURNS
- D. ALL LOWER LEVEL CEILING HEIGHTS ARE SHOWN AS HEIGHT ABOVE 100'-0" FLOOR ELEVATION.
- E. ALL FIXTURES & GRIDS ARE TO BE CENTERED WITHIN ROOM U.O.N.

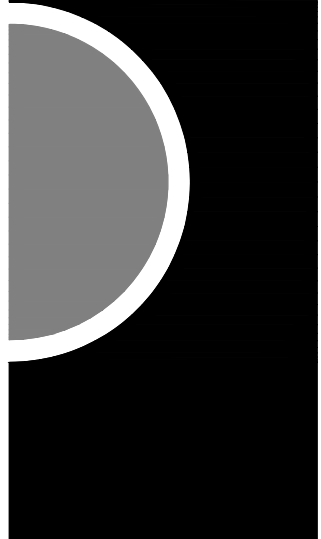
CEILING PLAN KEY NOTES:

- 1 EXISTING CEILING AND LIGHTING TO REMAIN - PROTECT DURING CONSTRUCTION
- 2 PATCH & REPAIR EXISTING CEILING AS REQUIRED AT LOCATIONS OF REMOVED PARTITIONS. TO BE FLUSH WITH EXISTING CEILING. TYP.
- 3 2x2 LAY-IN CEILING SYSTEM. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
- 4 LINE OF CUPOLA ABOVE - REFER TO PLAN
- 5 LINE OF EXISTING STAIR OPENING.
- 6 SUSPENDED LIGHT FIXTURE TO BE CENTERED OVER MILLWORK BELOW.
- 7 CENTER FIXTURE ON EXISTING BEAM ABOVE.
- 8 SUSPENDED ALUMINUM STOREFRONT SYSTEM WITH SINGLE PANE TEMPERED GLASS
- 9 NEW WOOD BEAM. FINISH TO MATCH EXISTING TIMBER FINISHED. SEE STRUCT.
- 10 NEW GUTTER AND DOWNSPOUT TO MATCH EXISTING PROFILE & COLOR. DOWNSPOUT TO BE 4" MIN. DIA. CONNECT TO UNDER SLAB STORM DRAIN.
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Ceiling Symbols Legend

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	RECESSED LINEAR LED FIXTURE
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	EXIT LIGHT - WALL MOUNTED
	EXISTING CEILING FAN
	SURFACE MOUNTED LIGHT FIXTURE (P INDICATES PENDANT FIXTURE)

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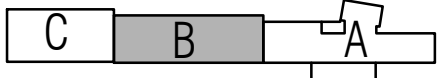
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CONSULTANT

KEY PLAN



OWNER

City of Dexter

PROJECT NAME

City Hall Renovations

3515 Broad St.
Dexter, MI 48130

PROJECT NO.

21-113

ISSUES / REVISIONS

Bidding Construction 12/22/2021
Addendum #1 01/21/2022

DRAWN BY

CWP

CHECKED BY

SL

APPROVED BY

DWG

SHEET NAME

1ST FLOOR

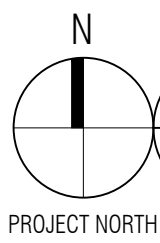
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CEILING PLAN -

AREA B

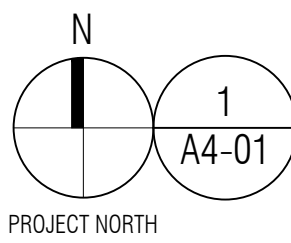
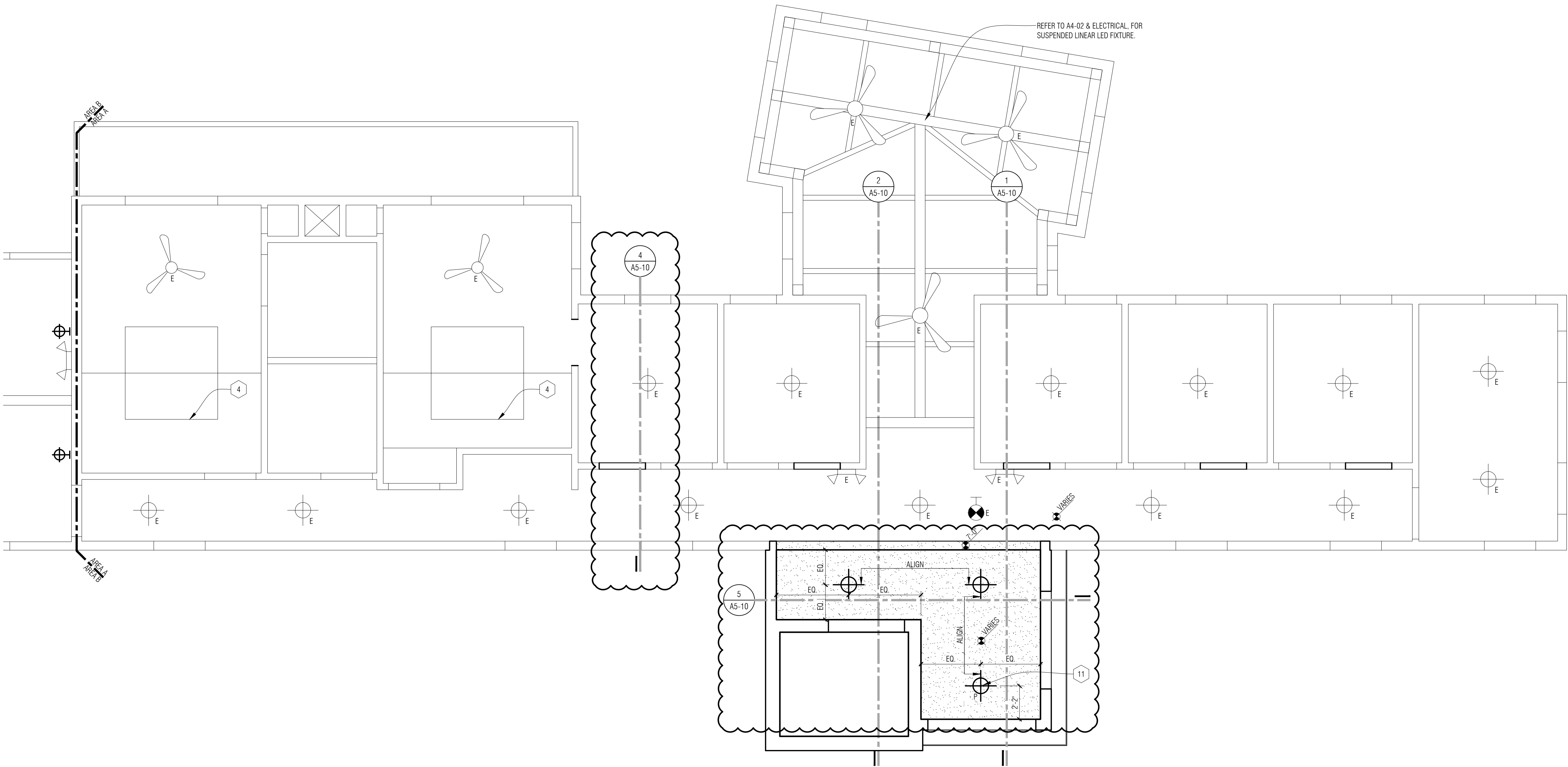
SHEET NO.

A4-03



1st Floor Reflected Ceiling Plan - Area B

1/4" = 1'-0"



2nd Floor Reflected Ceiling Plan - Area A
1/4" = 1'-0"

CEILING PLAN GENERAL NOTES:

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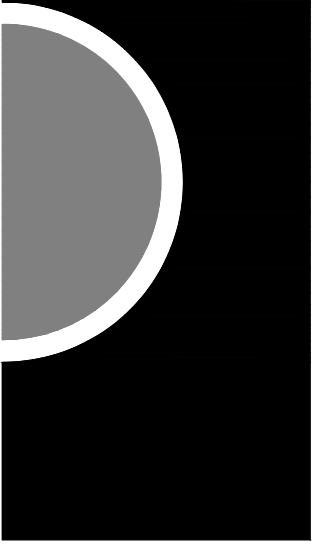
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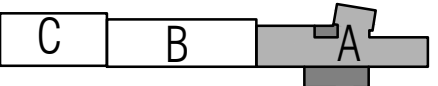
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KEY PLAN



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PROJECT NO.

21-113

ISSUES / REVISIONS

Bidding Construction 12/22/2021
Addendum #1 01/21/2022

DRAWN BY

CWP

CHECKED BY

SL

APPROVED BY

DWG

SHEET NAME

2ND FLOOR

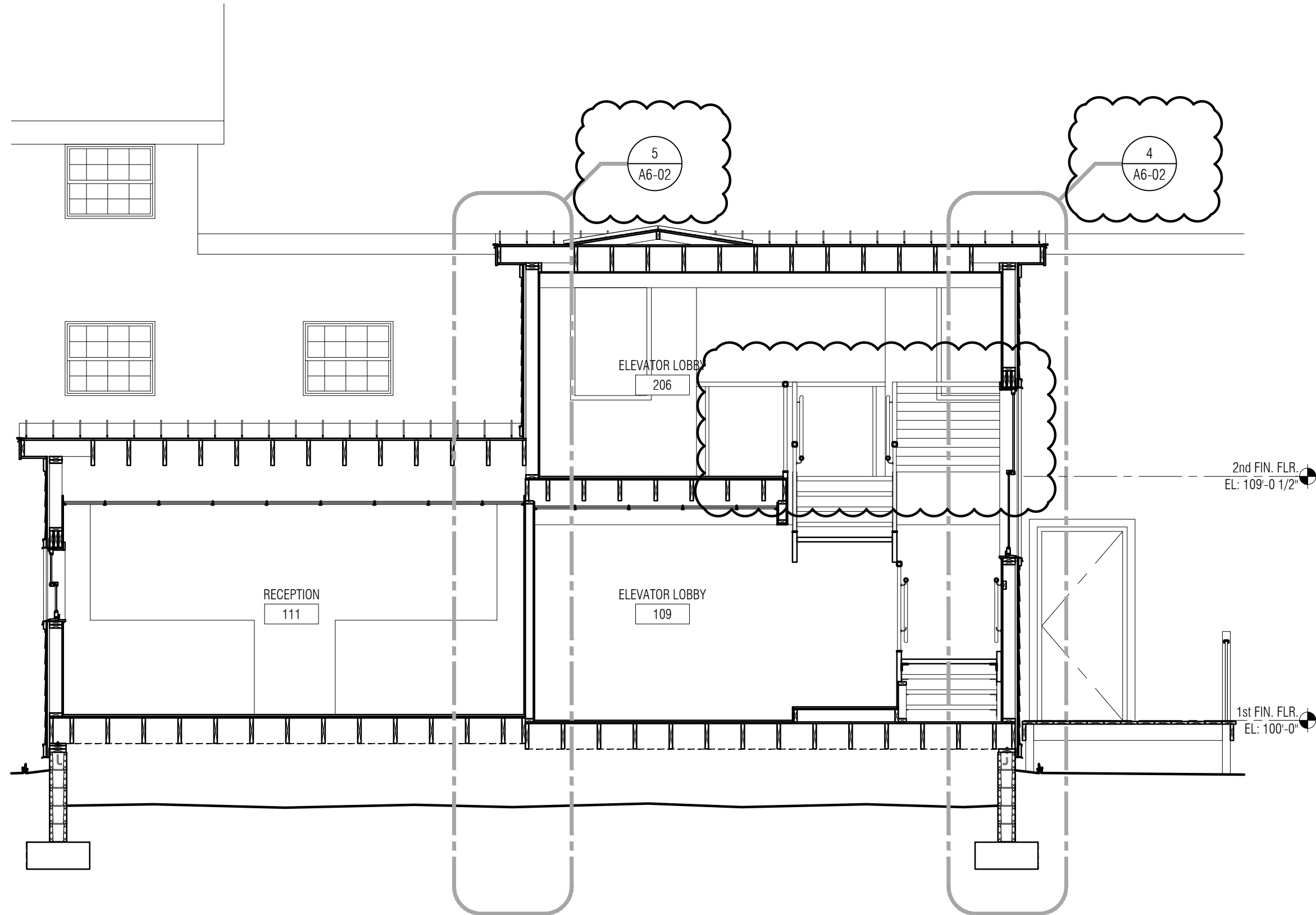
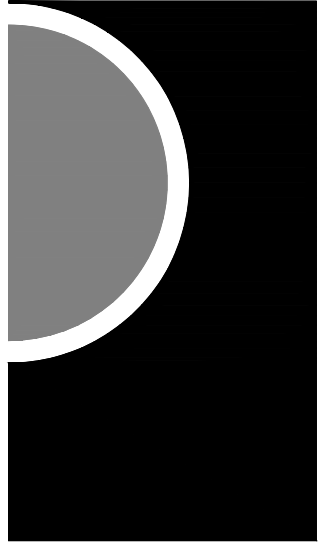
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CEILING PLAN -

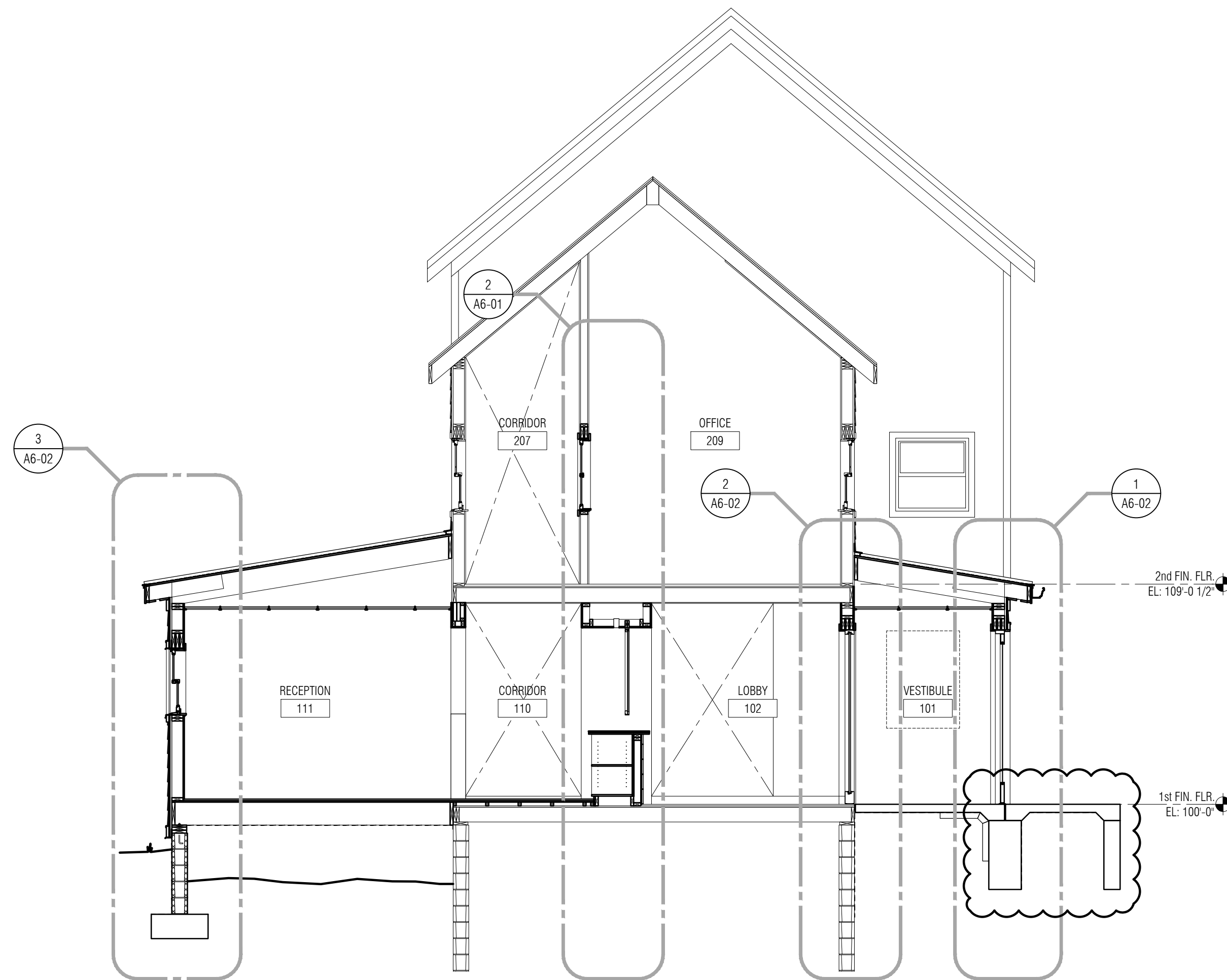
AREA A

SHEET NO.

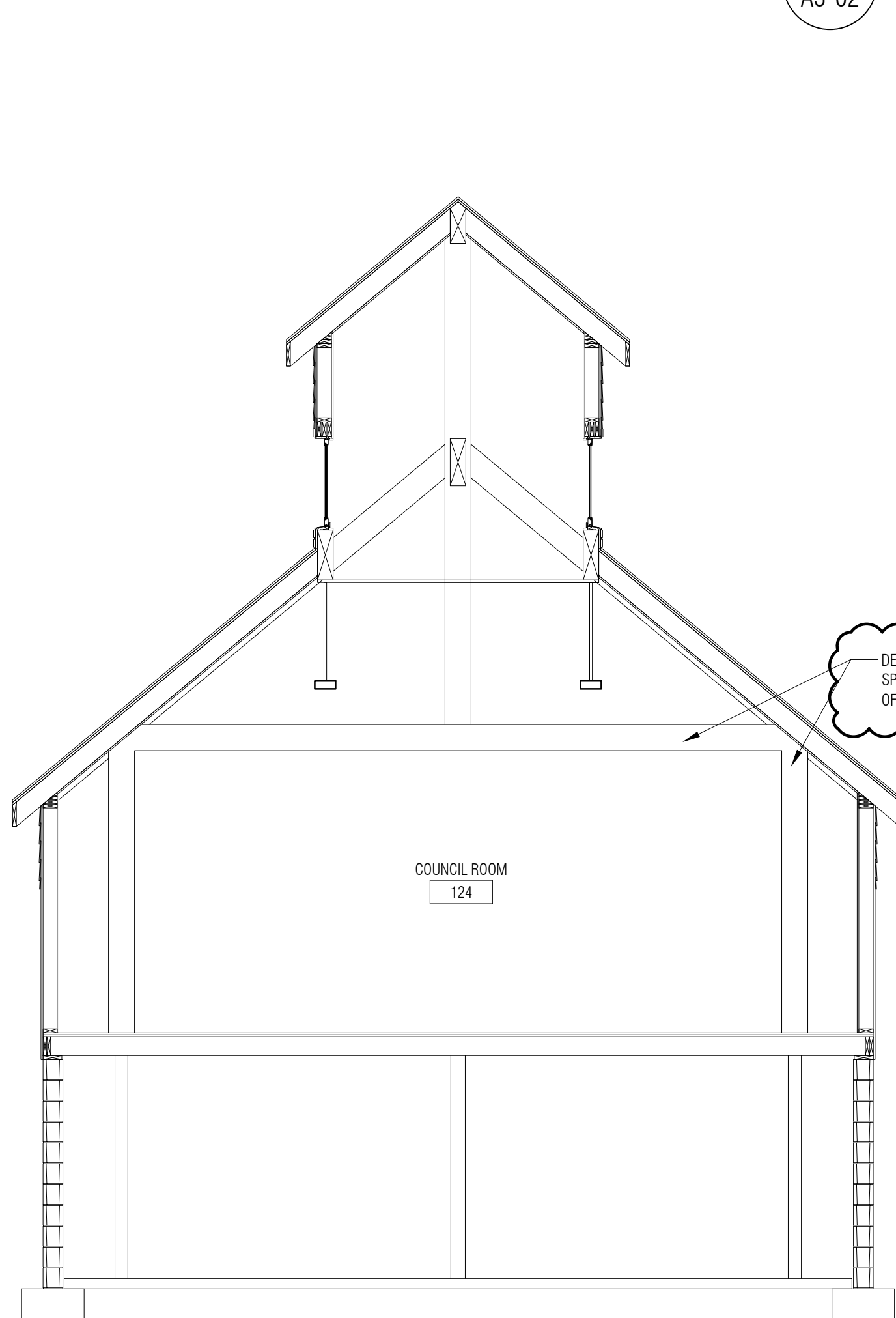
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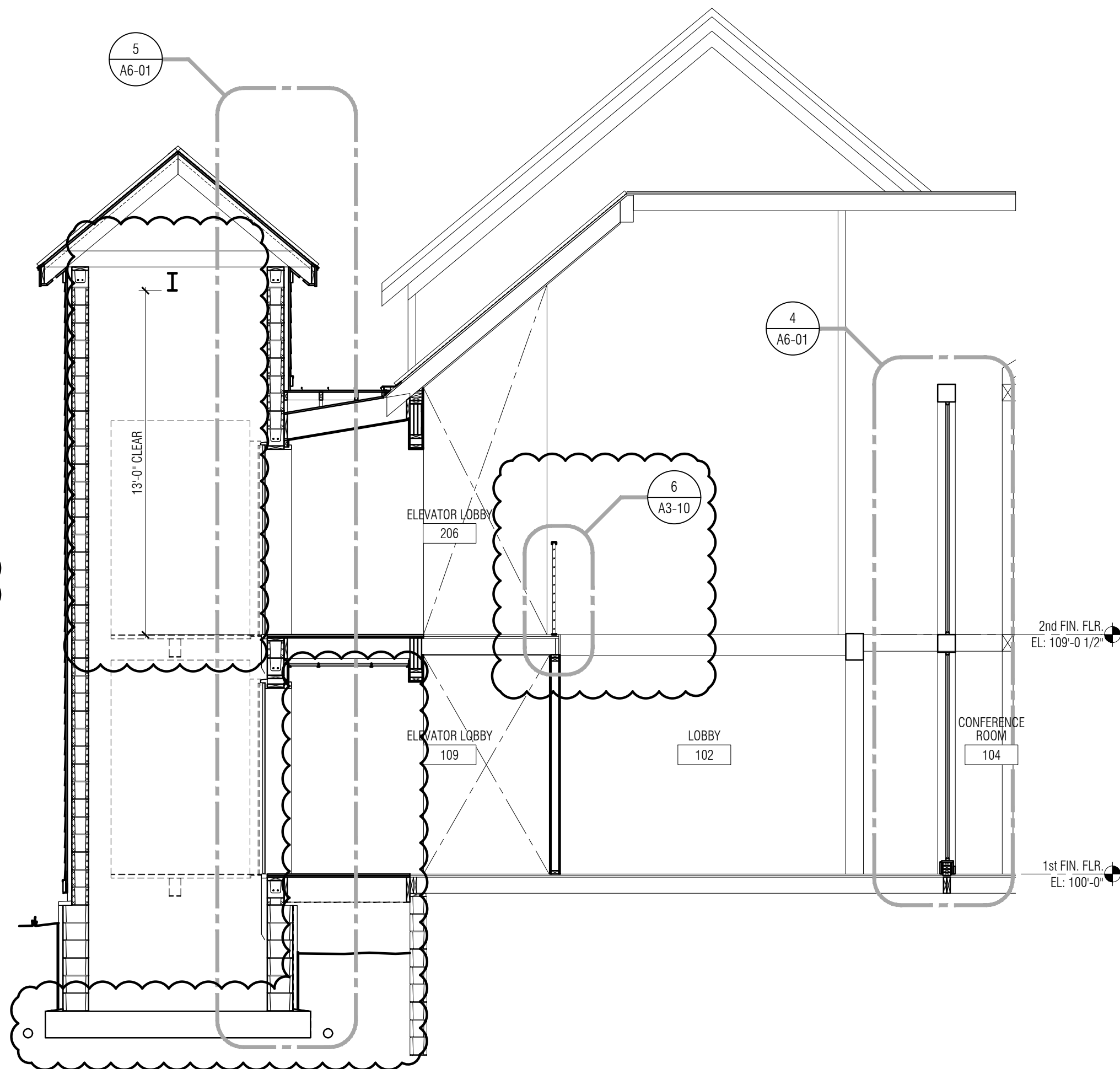
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A3-02 Building Section
1/4" = 1'-0"



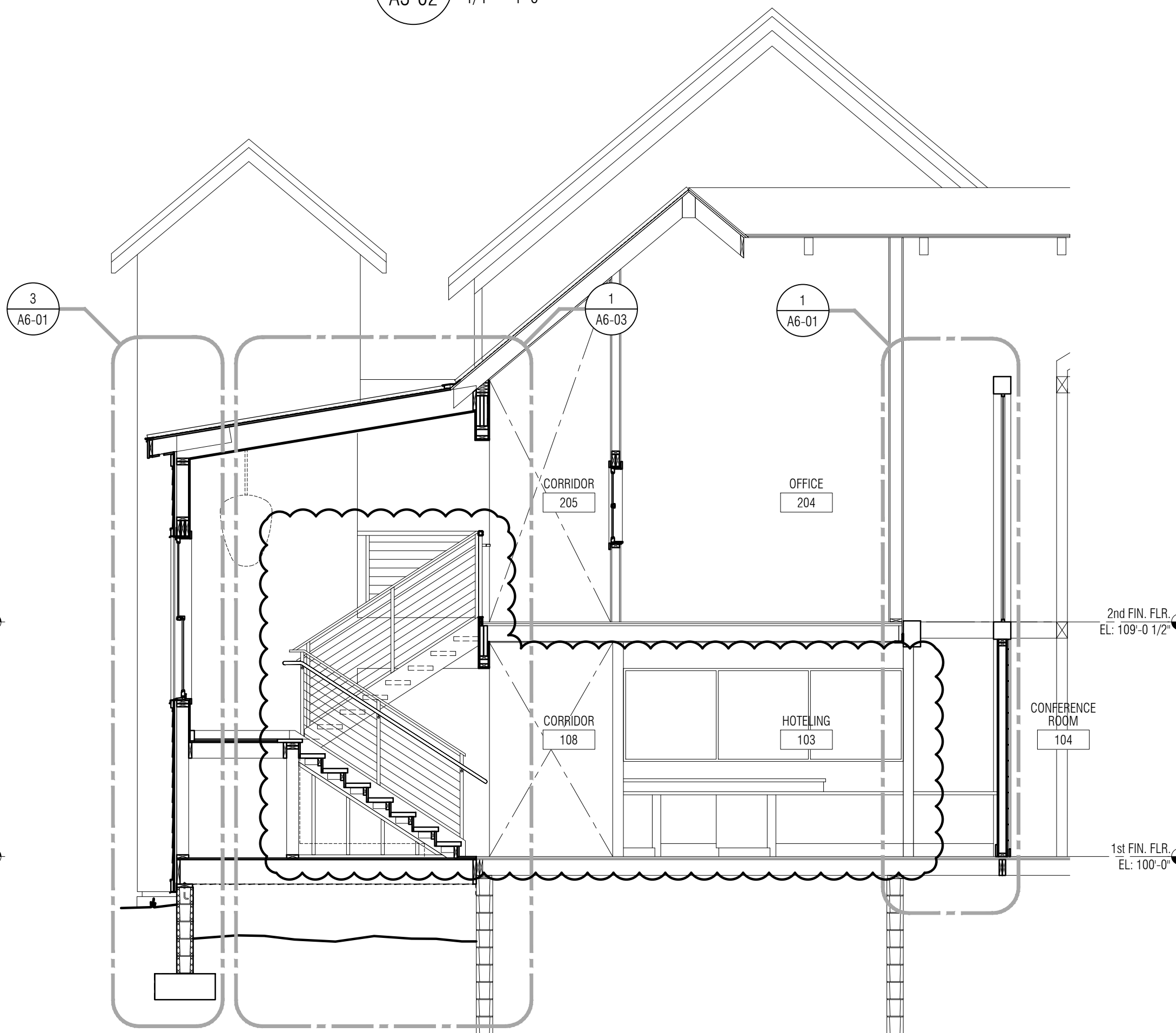
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A3-02 Building Section
1/4" = 1'-0"



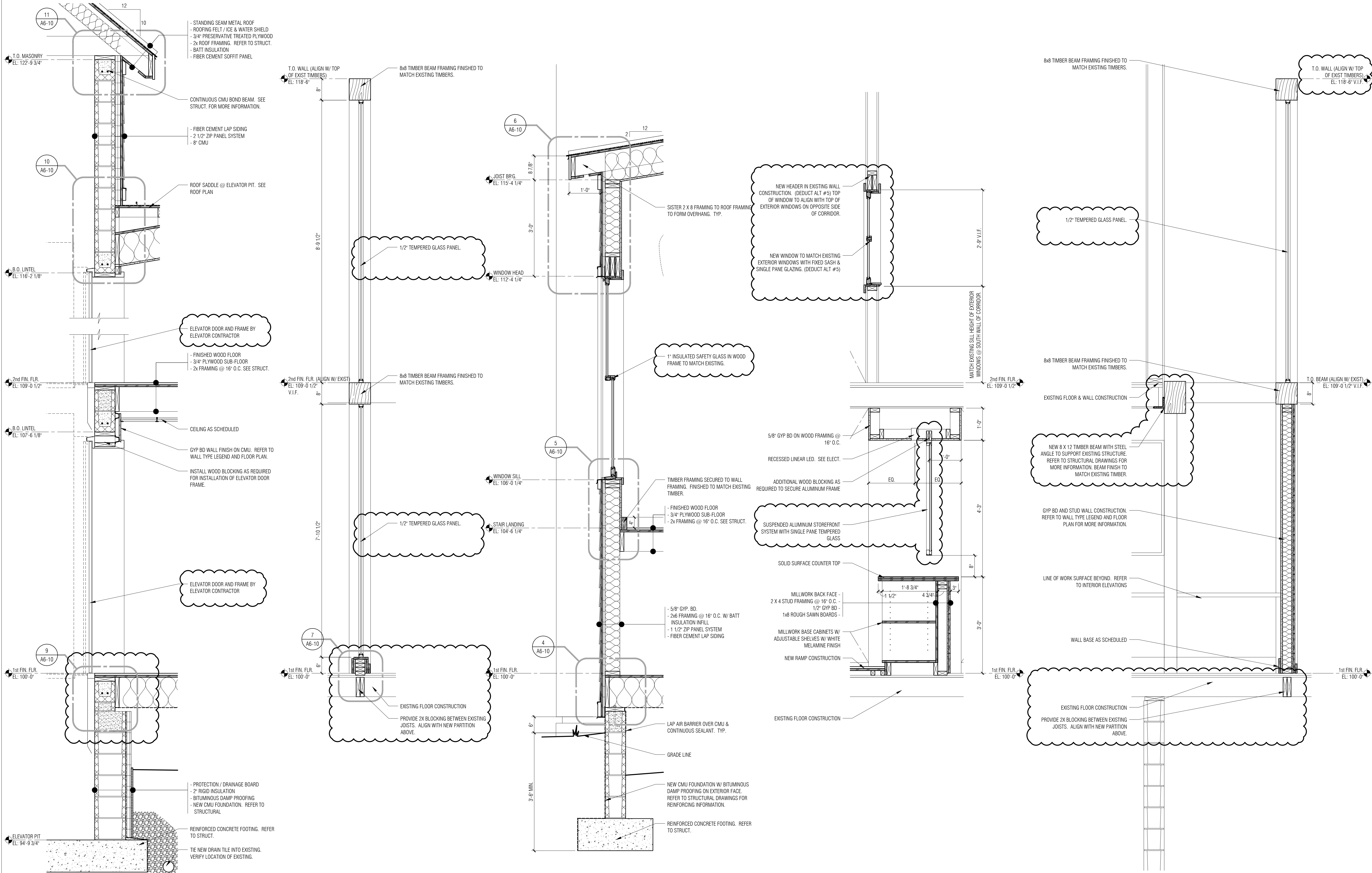
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A3-03 Building Section
1/4" = 1'-0"



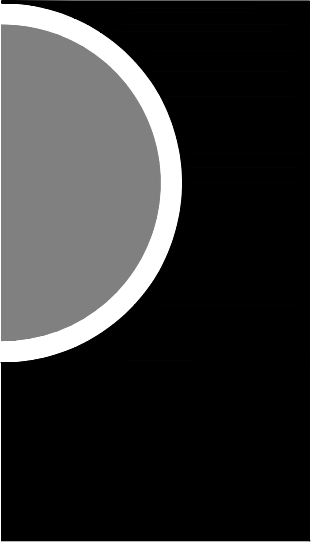
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A3-02 Building Section
1/4" = 1'-0"



1
A3-02 Building Section
1/4" = 1'-0"



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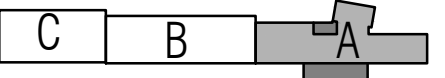
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ISSUES / REVISIONS

New Elevator- Ref Only	12/22/2021
Bidding Construction	12/22/2021
Addendum #1	01/21/2022

DRAWN BY

CWP

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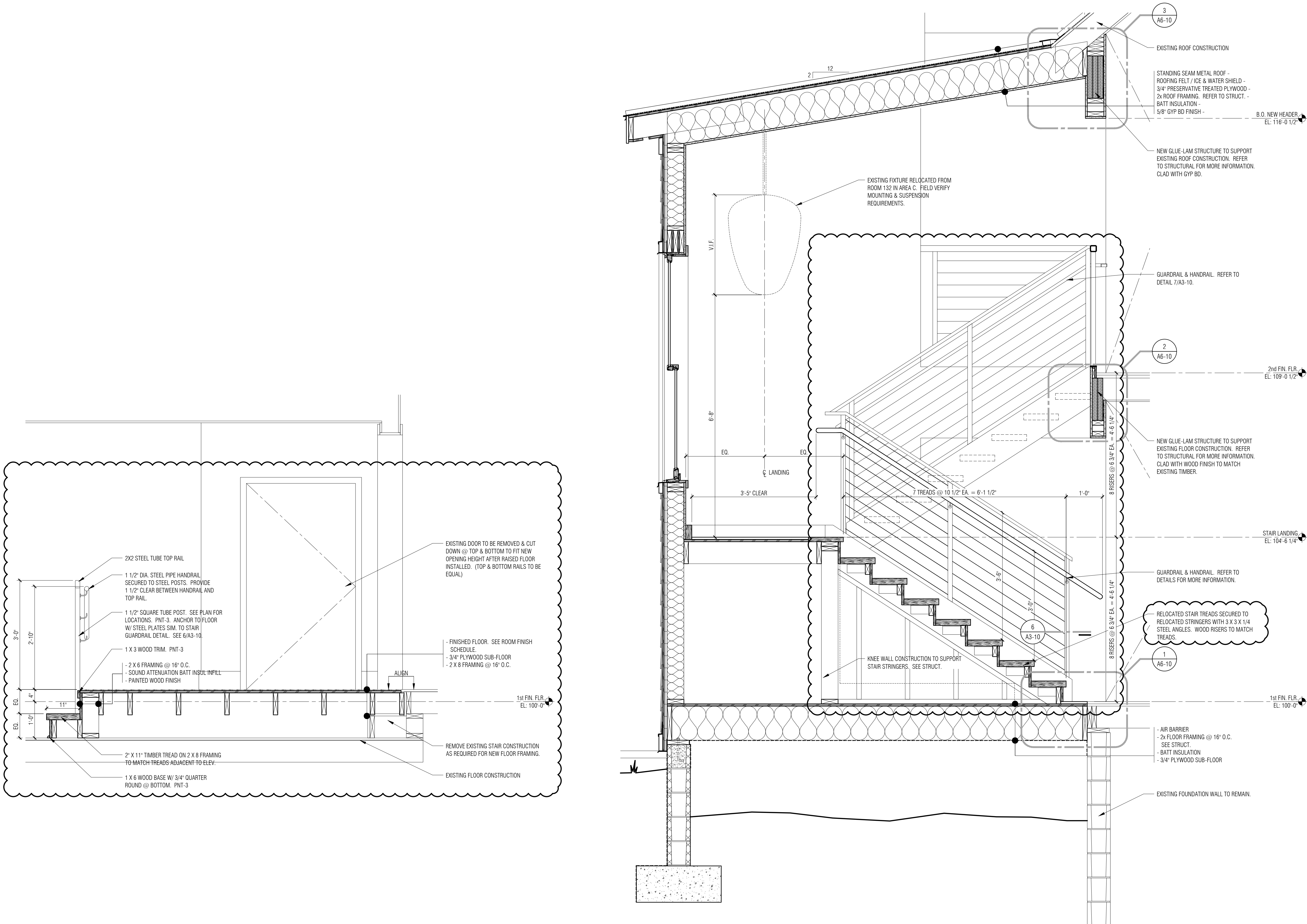
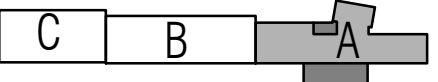
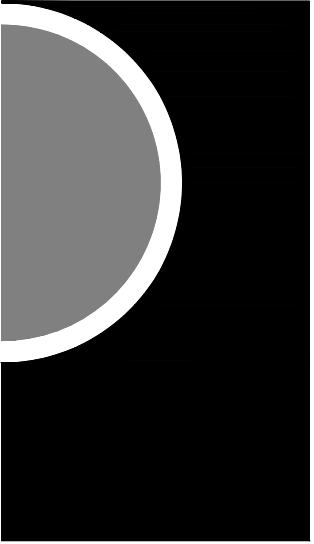
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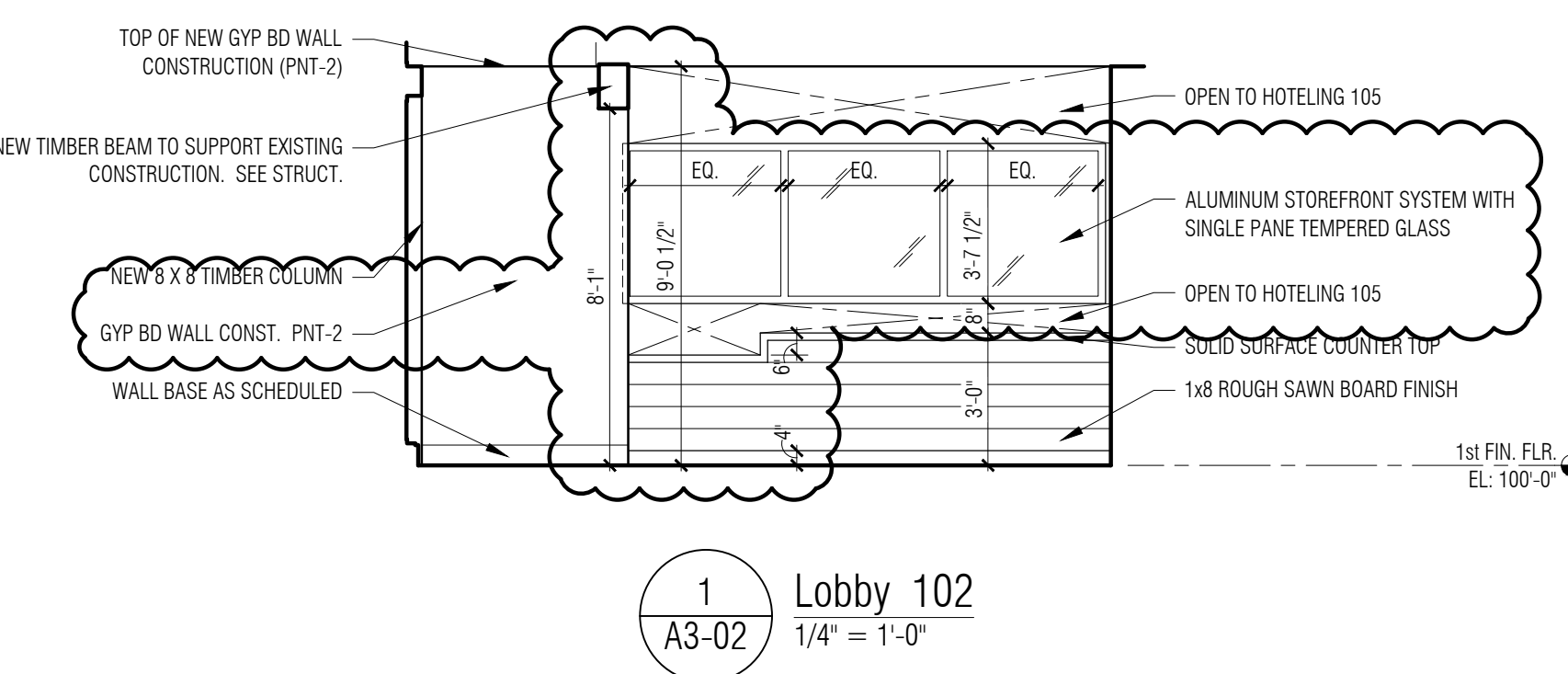
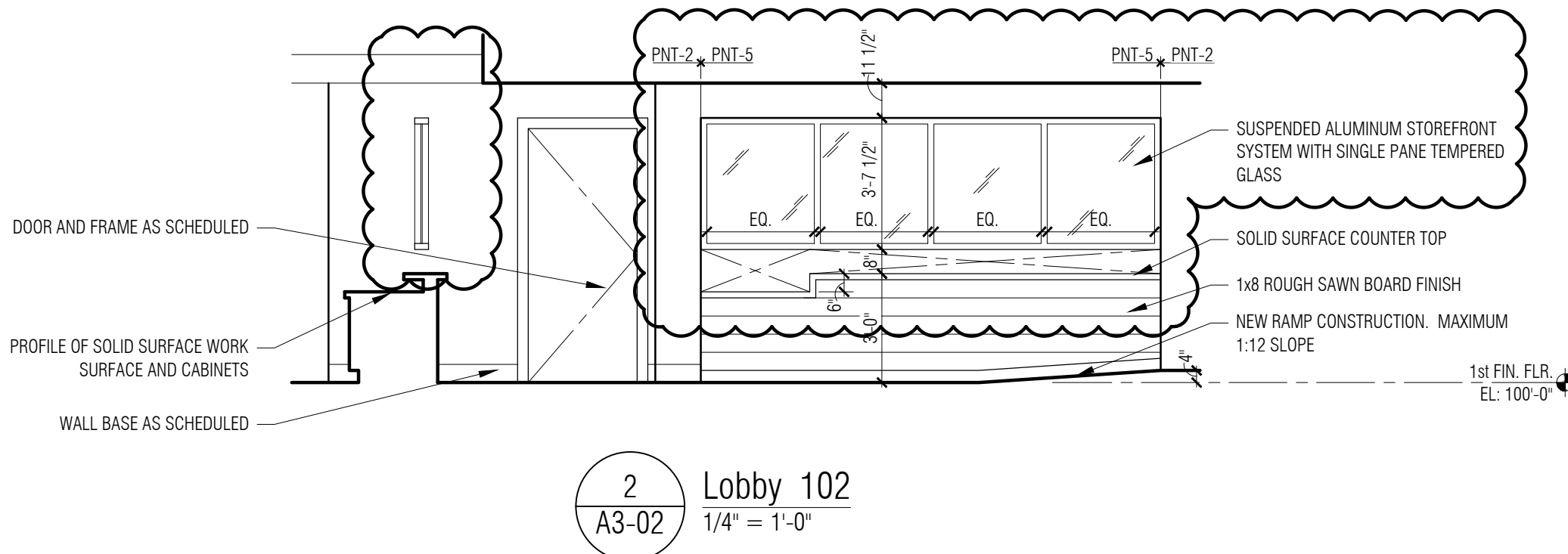
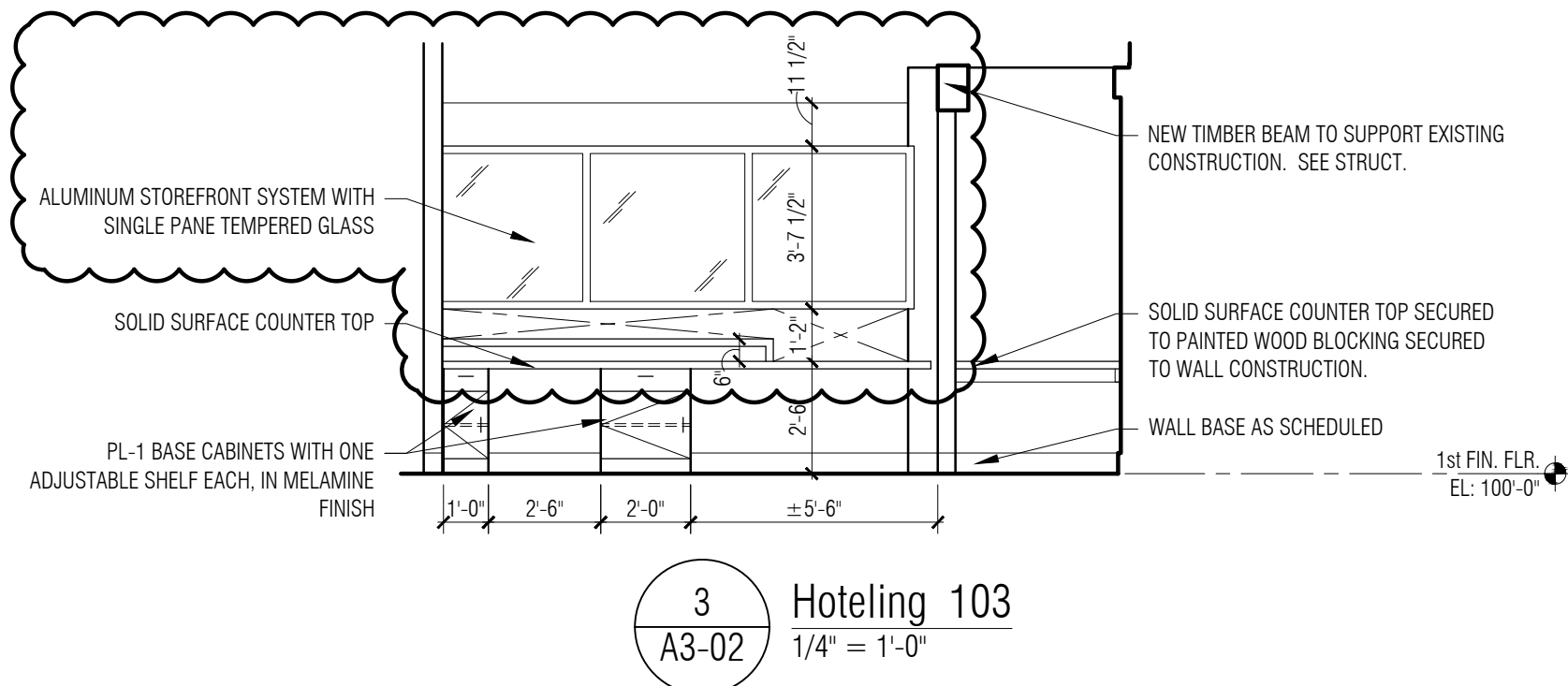
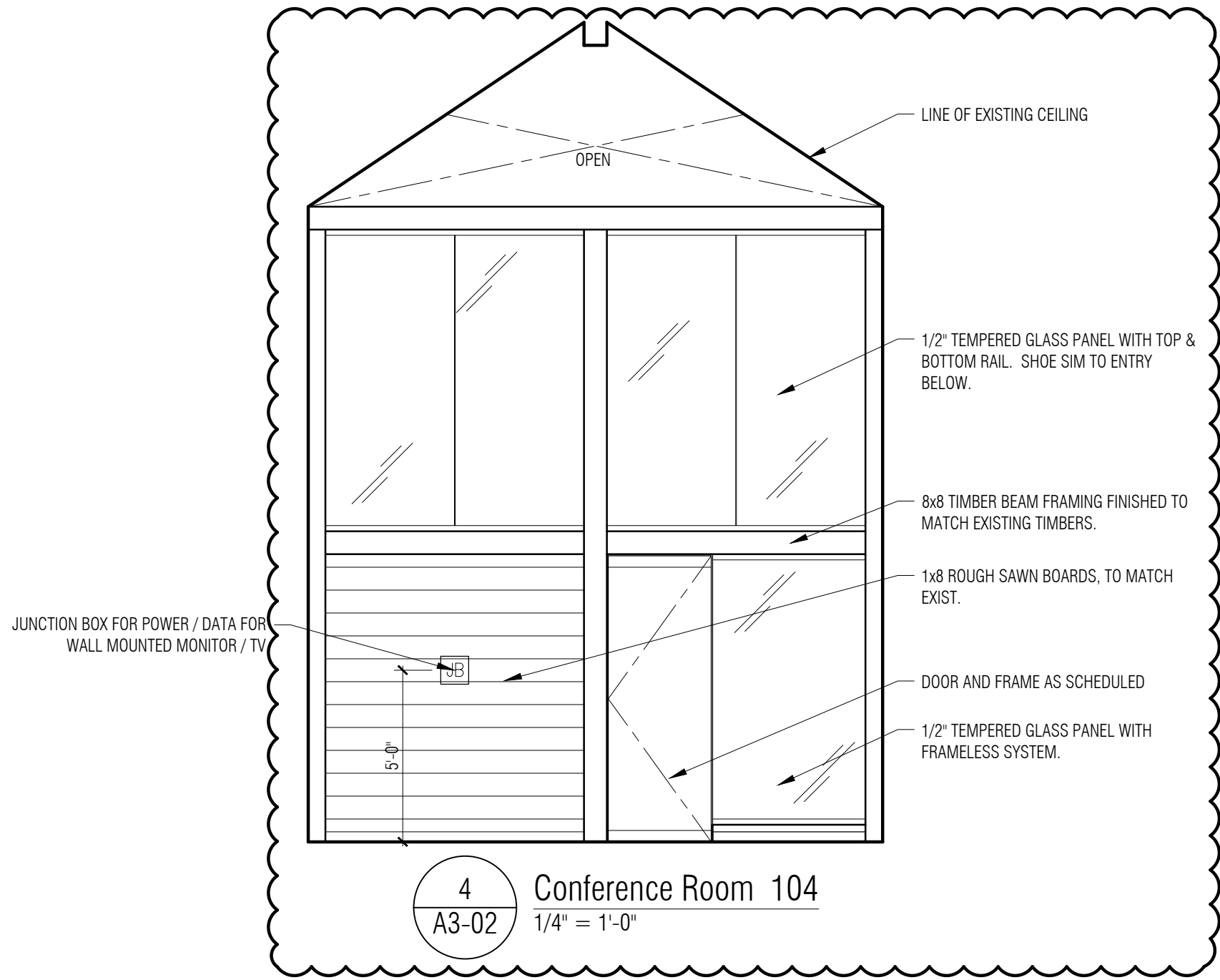
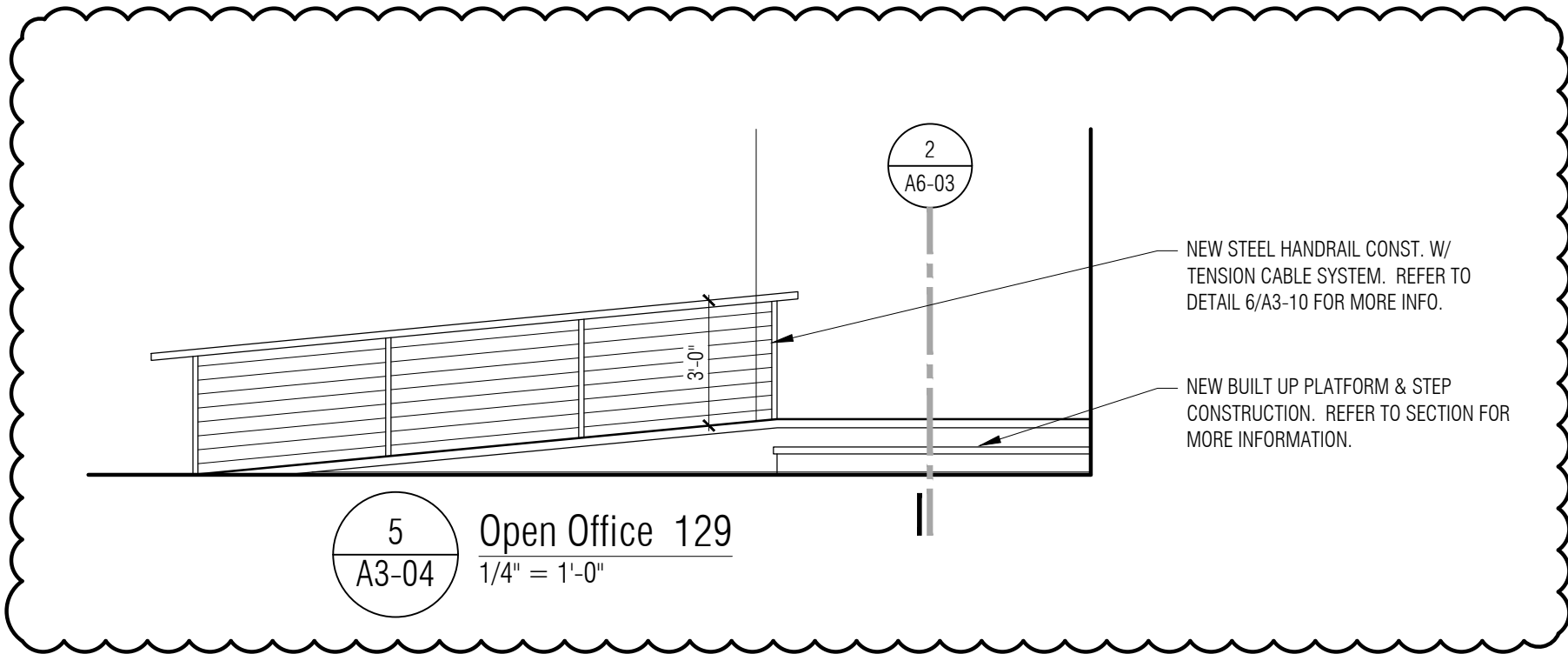
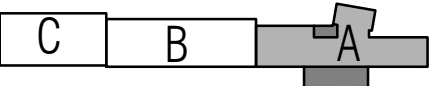
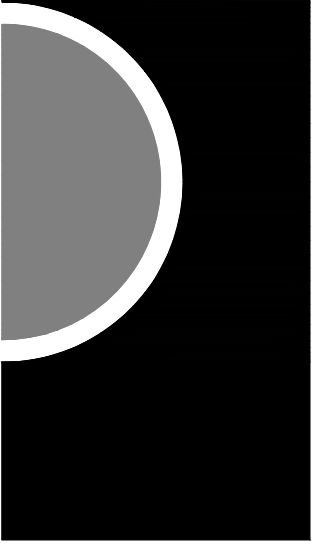
SHEET NAME

WALL SECTIONS

SHEET NO.

A6-01





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GENERAL DEMOLITION NOTES:

1. REMOVE EXISTING MECHANICAL SERVICES AND EQUIPMENT AS INDICATED AND/OR DESCRIBED ALONG WITH SUPPORTS, HANGERS, CONTROLS, AND ALL RELATED ACCESSORIES.
2. ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED TO BE EXISTING UNLESS OTHERWISE NOTED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
4. COORDINATE SHUTDOWN OF ANY EXISTING SYSTEMS WITH THE BUILDING SERVICES PERSONNEL.
5. WHERE DUCT AND/OR PIPE INSULATION HAS BEEN DAMAGED, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
6. ALL ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. REFER TO SPECIFICATIONS.
7. LIMITS OF DEMOLITION ARE INDICATED ON THE DRAWINGS. SHOULD EXISTING FIELD CONDITIONS REQUIRE MODIFICATIONS OF THESE LIMITS FOR THE PROPER INSTALLATION OF NEW WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH MODIFICATIONS.
8. ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED UNLESS OTHERWISE NOTED. CAP EXISTING PIPING, DUCTWORK, ETC. AT BRANCH MAINS. REMOVE ALL RELATED CONTROLS, WIRING, ETC., UNLESS OTHERWISE NOTED.

GENERAL HVAC NOTES:

1. COORDINATE NEW DUCTWORK WITH SITE CONDITIONS, EQUIPMENT MANUFACTURER AND ALL OTHER TRADES TO PREVENT INTERFERENCE. RESIZE & FIELD ROUTE AS REQUIRED. USE EQUIVALENT DUCT SIZING.
2. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
3. ALL CORING THROUGH FLOORS SHALL BE BY MECHANICAL CONTRACTOR.
4. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH OTHER TRADES TO PREVENT INTERFERENCE.
5. BALANCE AIR HANDLING SYSTEMS & DISTRIBUTION INCLUDING SUPPLY, RETURN & OUTDOOR AIR TO INDICATED FLOW RATES. REFER TO HVAC PLAN & VENTILATION SCHEDULE.
6. DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF EACH. REFER TO SCHEDULES.
7. ALL CONCEALED SUPPLY AIR DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS.
8. UNLESS NOTED ALL DUCTWORK SHALL BE CONCEALED IN WALLS AND/OR CEILING SPACE.
9. SEAL ALL PENETRATIONS THROUGH WALLS PER SPECIFICATIONS.
10. COORDINATE EXACT LOCATIONS OF DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRICAL REFLECTED CEILING PLAN.
11. COORDINATE T-STAT LOCATIONS WITH ARCHITECT.
12. PROVIDE MANUAL BALANCING DAMPERS AT ALL ROUND BRANCH DUCT CONNECTIONS TO REGISTERS.

GENERAL UTILITY NOTES:

1. UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF FACILITIES ONLY, AS DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANY'S RECORDS. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.
2. PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES IN CONFLICT WITH THE CONSTRUCTION OF PROPOSED IMPROVEMENTS SHALL BE VERIFIED IN THE FIELD.
3. DURING CONSTRUCTION, CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR OVERHEAD AND/OR BURIED UTILITIES.
4. REWORK/ RELOCATE EXISTING GAS SERVICE TO CLEAR ADDITION. ASSIST OWNER WITH APPLYING FOR UTILITY WORK & COORDINATE WITH UTILITY COMPANY. REWORK & RECONNECT TO EXISTING GAS DISTRIBUTION IN BUILDING. FIELD VERIFY EXTENT OF WORK.

GENERAL MECHANICAL NOTES:

1. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS & SPECIFICATIONS THE GREATER QUANTITY OR QUALITY WORK SHALL BE PERFORMED. THIS WORK MUST BE SUBMITTED IN WRITING TO ENGINEER PRIOR TO FINAL BID FOR APPROVAL. NO EXTRAS SHALL BE ALLOWED AFTER THAT TIME. THIS SHALL ALSO PERTAIN TO ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS OR BETWEEN TRADES. ALL ITEMS SHALL BE ADDRESSED IN WRITING PRIOR TO FINAL BIDS.
2. CONTRACTORS ARE CAUTIONED NOT TO SUBMIT A BID WITHOUT CAREFULLY REVIEWING THE COMPLETE CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES, DRAWINGS, AND THE COMPLETE PROJECT MANUAL. NO ADDITIONAL CHARGE TO CONTRACT PRICE WILL BE ALLOWED FOR ADDITIONAL CONTRACTOR EXPENSE RESULTING FROM A FAILURE TO COMPLY WITH THIS REQUIREMENT.
3. NO MODIFICATIONS TO THE SPECIFICATIONS, CONSTRUCTION DOCUMENTS, OR INTENT OF THE SCOPE OF WORK SHALL BE ALLOWED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER. ALL MODIFICATIONS, CHANGE ORDERS, ALTERNATES, VALUE ENGINEERING, OR ANY REVISIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND ENGINEER FOR REVIEW.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED EQUIPMENT AND OWNER PROVIDED EQUIPMENT. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES RESPONSIBLE FOR FINAL CONNECTION OF ALL EXISTING AND RELOCATED EQUIPMENT.

GENERAL PLUMBING NOTES:


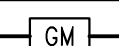
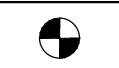










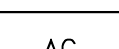
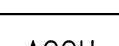
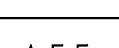
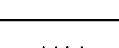
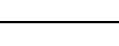
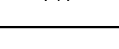
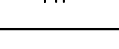
1. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SERVICE COCK, TEE, AND 12" LONG DIRT LEG WITH CAP.
2. AS REQUIRED TO HANDLE ELEVATED GAS PRESSURE, PROVIDE GAS PRESSURE REGULATORS AT EQUIPMENT OR IN MAINS SERVING GROUPS OF EQUIPMENT. REGULATORS SHALL BE EQUAL TO MAXITROL 210 SERIES-BALANCED VALVE/POSITIVE LOCK-UP TYPE & CAPABLE OF INTERMITTENT 10 PSI SUPPLY OVERPRESSURE PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING DELIVERY PRESSURE & MAXIMUM INLET PRESSURE OF EQUIPMENT & ADJUST DESIGN ACCORDINGLY. COORDINATE WITH THE GAS UTILITY FOR REQUIRED ADJUSTMENTS AT THE SERVICE MANIFOLD NECESSARY TO PROPERLY FIRE ALL EQUIPMENT.

MECHANICAL ADD ALTERNATE #9:

1. PROVIDE ALTERNATE PRICING TO REPLACE FIVE (5) FURNACE SYSTEMS AS NEW INCLUDING SPLIT DX COOLING CASED COIL & REMOTE OUTDOOR AIR COOLED CONDENSING UNIT. THESE SHALL REPLACE OLDER LENNOX UNITS THAT WERE INSTALLED CIRCA 2002. APPROX COOLING CAPACITY AS INDICATED ON THE DRAWINGS IS TO BE FIELD VERIFIED. MATCH FURNACE GAS INPUT RATINGS. SOME EXISTING NAMEPLATES ARE NOT LEGIBLE. ADAPT TO & RE-USE EXISTING AIR DISTRIBUTION. PROVIDE NEW PROGRAMMABLE THERMOSTAT & WIRING. RE-USE GAS VENTING IF POSSIBLE OR REPLACE AS-NEW. RE-USE ELECTRICAL CIRCUITING. NEW OUTDOOR UNITS WILL BE INSTALLED IN NEW LOCATIONS INDICATED TO CLEAR NEW CONSTRUCTION. PROVIDE DX REFRIGERANT PIPING. SEE KEYED NOTE 2 ON M1-00 & M1-02. APPROVED WFR'S: CARRIER, TRANE, AMERICAN STANDARD, AMANA, BRYANT, DAIKAN, GOODMAN, LENNOX, RHEEM.

MECHANICAL EQUIPMENT TAGGING & ASSOCIATIONS:

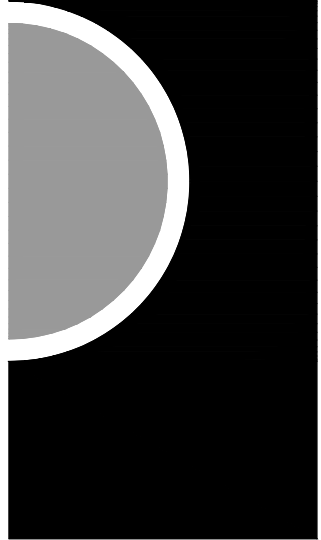
1. MECHANICAL TRADES SHALL DETERMINE SPLIT AC UNIT ASSOCIATIONS & RE-TAG ALL EXISTING FURNACE EQUIPMENT AS DESIGNATED ON NEW WORK PLANS. OUTDOOR CONDENSING UNITS SHALL BE NUMBERED SAME AS THEIR INDOOR UNIT COUNTERPARTS ONCE ASSOCIATIONS HAVE BEEN ESTABLISHED. IE: F-1 & ACCU-1, INDOOR FURNACE & ASSOCIATED OUTDOOR AIR COOLED CONDENSING UNIT.

MECHANICAL LEGEND			
	AIR BALANCING DAMPER	CFH	CUBIC FEET PER HOUR
	GAS METER	CFM	CUBIC FEET PER MINUTE
	NEW CONNECTION TO EXISTING	DN	DOWN
	DEMOLITION LIMITS	(E)	EXISTING
	DIAMETER	EDH	ELECTRIC DUCT HEATER
	PLUG VALVE NON LUBRICATED TYPE (KEYPORT 400 SERIES) (GAS COCK)	EF	EXHAUST FAN
	RETURN REGISTER	ET	ELECTRICAL TRADES
	SUPPLY REGISTER	GC	GENERAL CONTRACTOR
	FLEXIBLE DUCT	HVAC	HEATING VENTILATING & AIR CONDITIONING
	MOTORIZED DAMPER	MT	MECHANICAL TRADES
	REDUCER	O.A.	OUTSIDE AIR
	FLEXIBLE DUCT CONNECTION	R.A.	RETURN AIR
	SPIN-IN FITTING WITH VOLUME DAMPER	RG	RETURN GRILLE
	AIR CONDITIONING	EG	EXHAUST GRILLE
	AIR COOLED CONDENSING UNIT	S.A.	SUPPLY AIR
	ABOVE FINISHED FLOOR	SR	SUPPLY REGISTER
	AUTHORITY HAVING JURISDICTION	TCC	TEMPERATURE CONTROLS CONTRACTOR
	ARCHITECTURAL TRADES	G	NATURAL GAS
	HEAT PUMP	DX	DX REFRIGERANT
	VERIFY IN FIELD	UOD	UNLESS OTHERWISE DETERMINED

MECHANICAL DRAWING INDEX	
SHEET NO.	SHEET TITLE
M0-01	MECHANICAL LEGEND, SHEET INDEX AND DETAILS
M0-02	MECHANICAL SCHEDULES
M0-03	MECHANICAL SCHEDULES
MD-00	BASEMENT DEMO PLAN
MD-01	MAIN LEVEL DEMO PLAN
MD-02	SECOND LEVEL DEMO PLAN
M1-00	BASEMENT MECHANICAL PLAN
M1-01	MAIN LEVEL MECHANICAL PLAN
M1-02	SECOND LEVEL MECHANICAL PLAN



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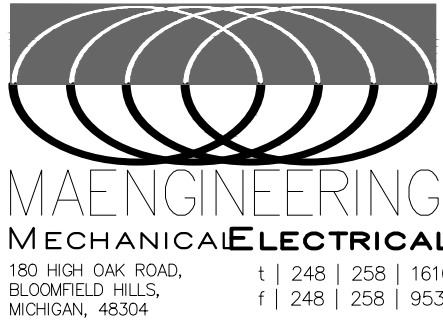
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KEY PLAN

OWNER

City of Dexter

PROJECT NAME

New City Hall
Renovations

PROJECT NO.

21-113

ISSUES / REVISIONS

Permits 12/22/2021
Addendum #1 01/19/2022

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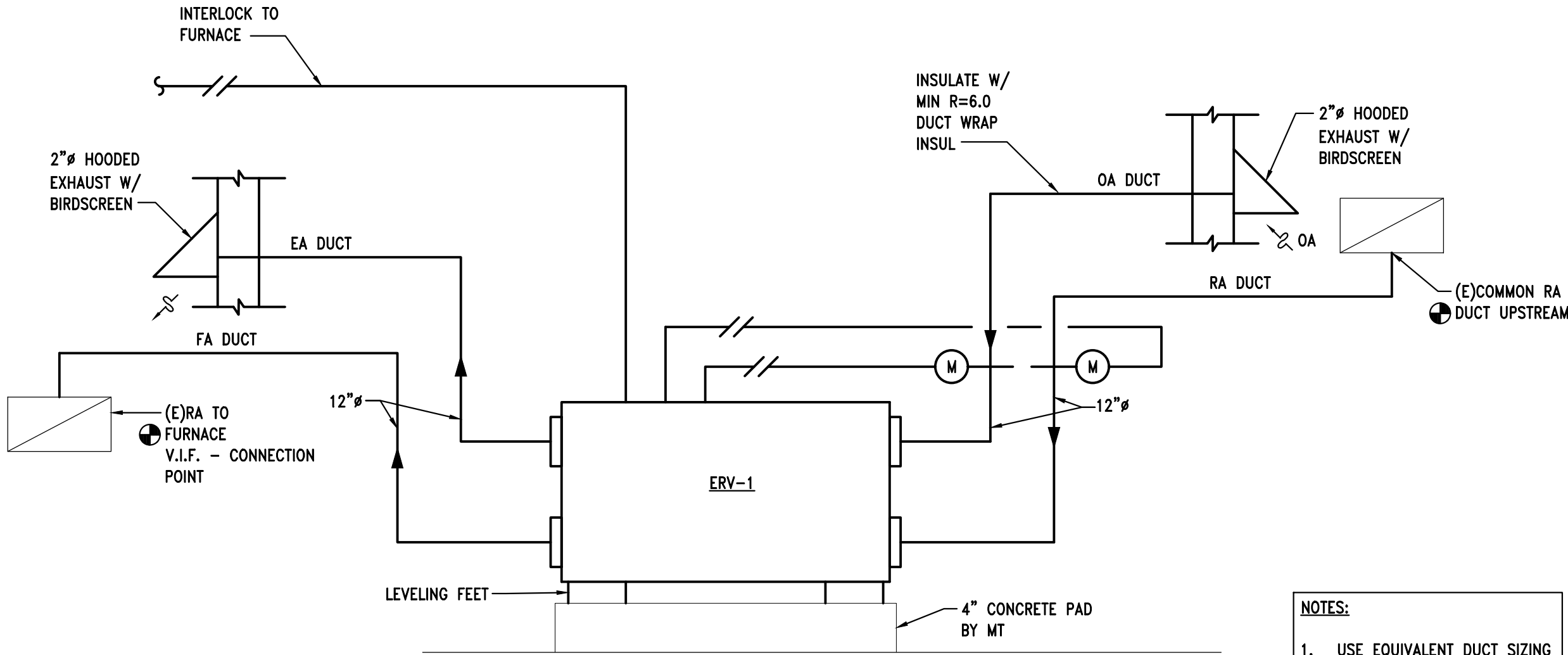
SS

SHEET NAME

MECHANICAL
LEGEND, SHEET
INDEX AND DETAILS

SHEET NO.

M0-01



ENERGY RECOVERY VENTILATOR DIAGRAM
NTS

SEQUENCE:

- ERV RUNS WHEN FURNACE RUNS.
- OA & RA DAMPERS OPEN WHEN UNIT RUNS & CLOSE WHEN UNIT IS OFF.

NOTES:

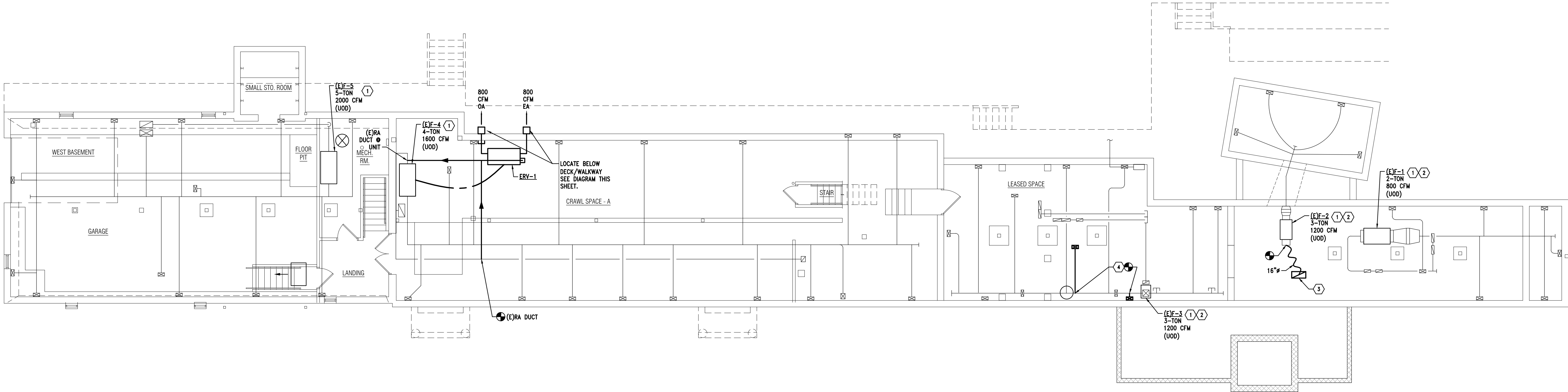
- USE EQUIVALENT DUCT SIZING AS REQUIRED FOR HEADROOM IN BASEMENT.
- ALL CONTROLS, WIRING, ETC. BY MT IN COMPLIANCE W/ ERV I.O.M.

GENERAL NOTES (THIS SHEET):

- REBALANCE ALL EXISTING FURNACE SYSTEMS & INDIVIDUAL ASSOCIATED SUPPLY AIR REGISTERS TO CFM INDICATED ON PLAN.
- REBALANCE OUTDOOR AIR INTAKES TO REQUIRED AMOUNT PER VENTILATION SCHEDULE.

KEYED NOTES:

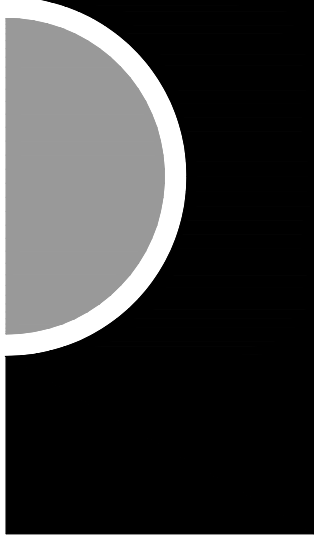
- PROVIDE MAINTENANCE INSPECTION & SERVICE TO EXISTING GAS FURNACE & SPLIT AC SYSTEMS. SUBMIT ASSESSMENT REPORT TO OWNER IDENTIFYING ANY ISSUES FOR CONSIDERATION OF REPAIR VERSUS REPLACEMENT.
- MECHANICAL ADD ALTERNATE #9: EXISTING LENNOX SEALED COMBUSTION FURNACE & SPLIT A/C SYSTEM INSTALLED CIRCA YEAR 2002. FIELD VERIFY CAPACITY OF FURNACE & SPLIT AC & PROVIDE ALTERNATE PRICING TO REPLACE THE SYSTEM. SEE M0.01.
- NEW LOCATION FOR (E) FLOOR RETURN AIR GRILLE. PROVIDE NEW BOOT & INSULATED FLEX DUCT. COORDINATE WITH (E) FLOOR JOISTS & ELEMENTS. VERIFY SIZING OF EXISTING RA DUCT TO UNIT CONNECTION.
- PROVIDE NEW 6" RUNOUT & BOOT FOR NEW FLOOR SA REGISTER ON FIRST FLOOR.



Basement Mechanical Plan
1/8" = 1'-0"



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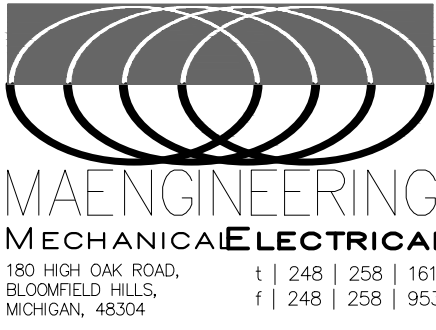
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SHEET NAME

BASEMENT
MECHANICAL
PLAN

SHEET NO.

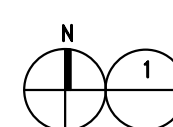
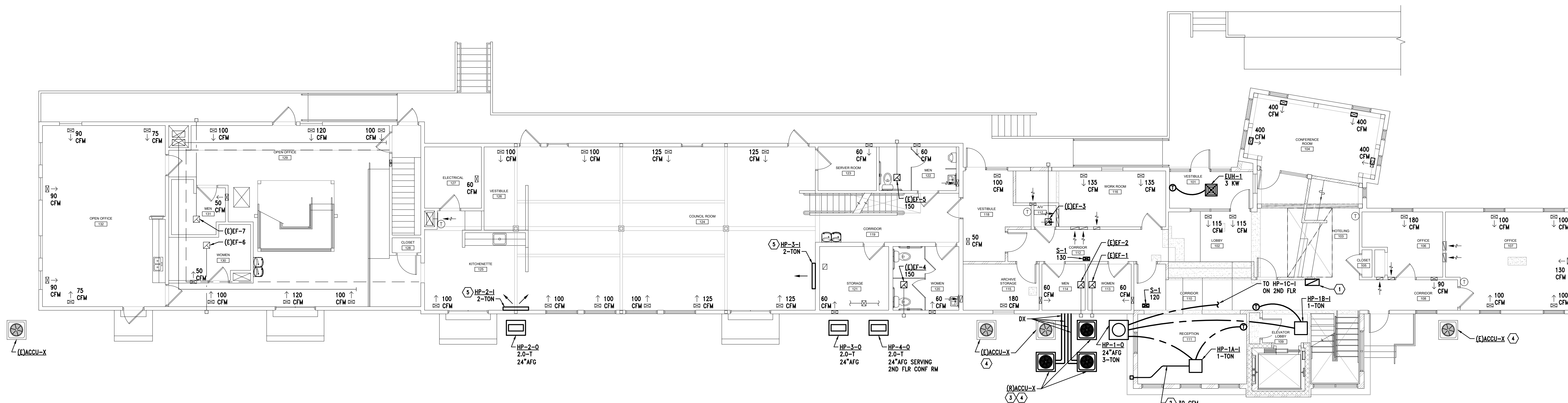
M1-00

GENERAL NOTES (THIS SHEET):

1. REBALANCE ALL EXISTING FURNACE SYSTEMS & INDIVIDUAL ASSOCIATED REGISTERS TO CFM INDICATED ON PLAN.
2. ROUTE AC CONDENSATE TO DRAINS IN BASEMENT. V.I.F.
3. SEE NOTE ON MO-01 FOR EQUIPMENT TAGGING & UNIT ASSOCIATIONS.

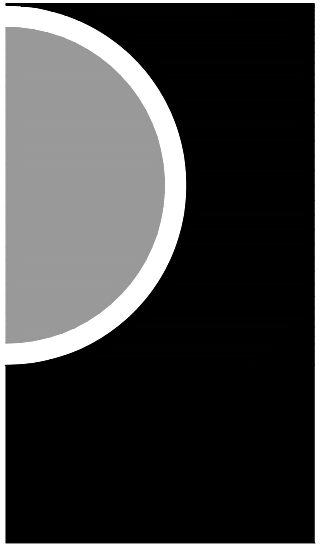
KEYED NOTES:

- ① NEW LOCATION FOR (E) FLOOR RETURN AIR GRILLE. CLEAN & RECONDITION. REPLACE IN KIND IF DAMAGED. SEE DEMO PLAN FOR PREVIOUS LOCATION. COORDINATE WITH FLOOR JOISTS & (E) ELEMENTS.
- ② PROVIDE 4" Ø OA DUCTING WITH HOODED WALL CAP W/ BIRDSCREEN. INSULATE DUCT W/ R=6 DUCT WRAP. PROVIDE MANUAL DAMPER & BALANCE TO 30 CFM.
- ③ RELOCATE EXISTING ACCU & REWORK DX PIPING, ELECTRICAL & CONTROLS FOR NEW LOCATION.
- ④ SEE MECHANICAL ADD ALTERNATE #9 ON M0-01 FOR EQUIPMENT REPLACEMENTS.
- ⑤ MOUNT AT 80" AFF UOD DURING INSTALLATION MFR I.O.M.



Main Level Mechanical Plan
1/8" = 1'-0"





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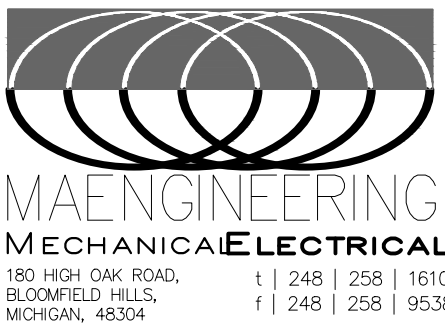
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SHEET NAME

SECOND LEVEL
MECHANICAL
PLAN

SHEET NO.

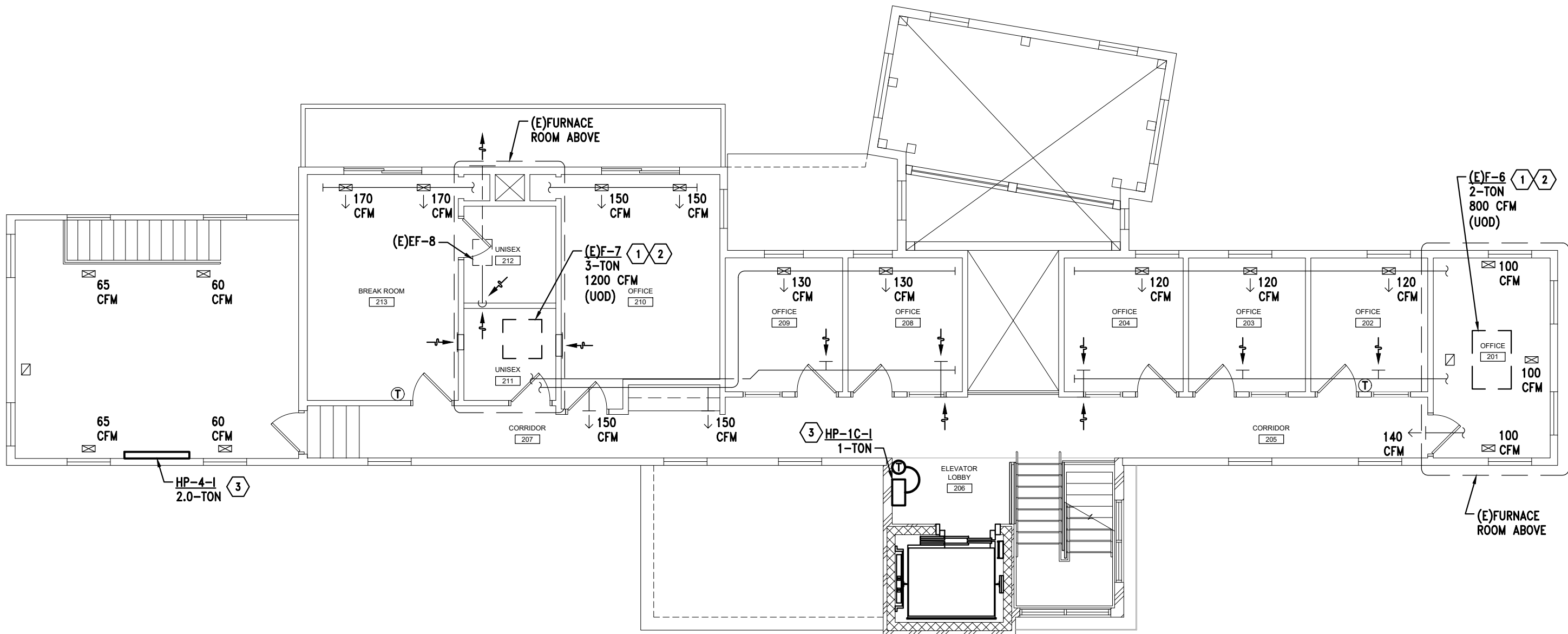
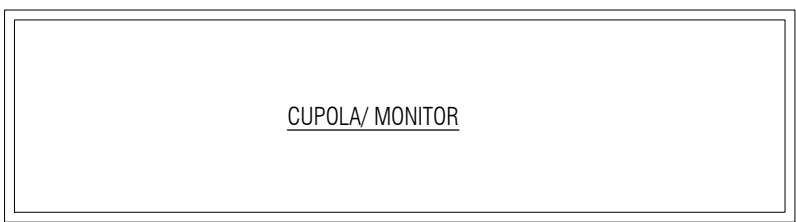
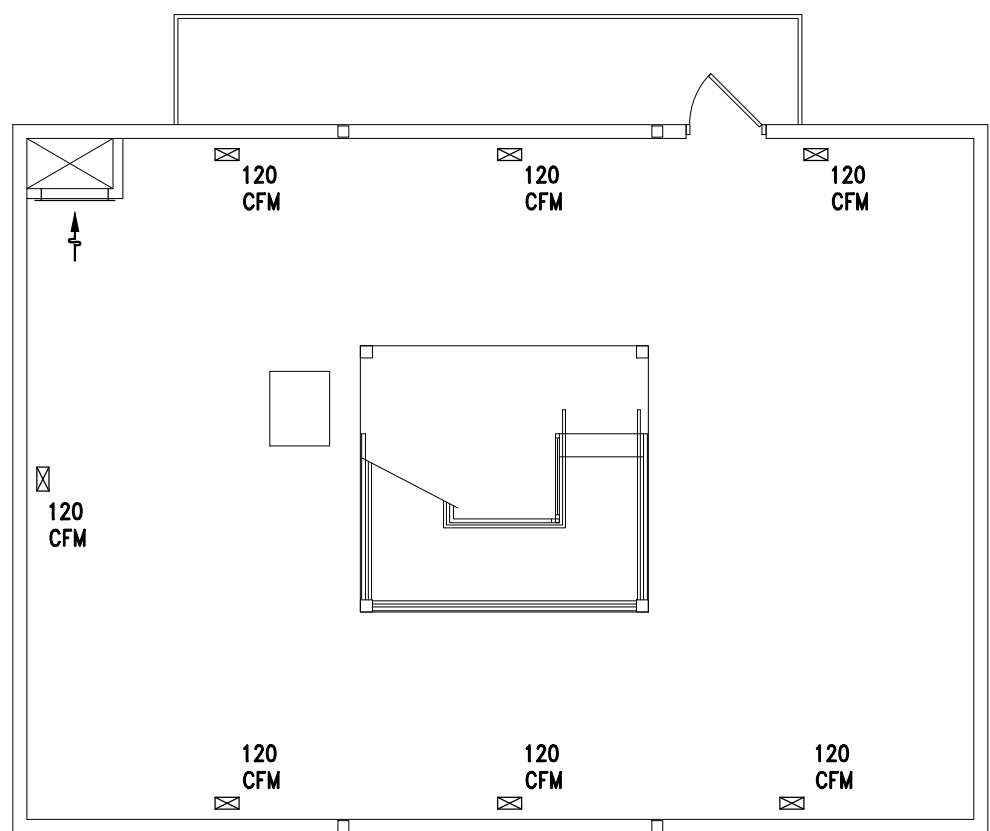
M1-02

GENERAL NOTES (THIS SHEET):

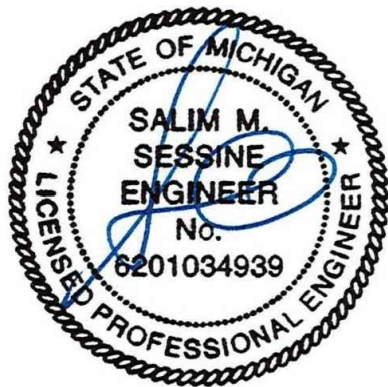
- REBALANCE ALL EXISTING FURNACE SYSTEMS & INDIVIDUAL ASSOCIATED SUPPLY AIR REGISTERS TO CFM INDICATED ON PLAN.
- ROUTE AC CONDENSATE TO DRAINS IN BASEMENT. V.I.F.

KEYED NOTES:

- PROVIDE MAINTENANCE INSPECTION & SERVICE TO EXISTING GAS FURNACE & SPLIT AC SYSTEMS. SUBMIT ASSESSMENT REPORT TO OWNER IDENTIFYING ANY ISSUES FOR CONSIDERATION OF REPAIR VERSUS REPLACEMENT.
- MECHANICAL ADD ALTERNATE #9: EXISTING LENNOX SEALED COMBUSTION FURNACE & SPLIT A/C SYSTEM INSTALLED CIRCA YEAR 2002. FIELD VERIFY CAPACITY OF FURNACE & SPLIT AC & PROVIDE ALTERNATE PRICING TO REPLACE THE SYSTEM. SEE M.O.I.
- MOUNT 80" A.F.F. U.O.D. DURING INSTALLATION & ARCHITECT. COMPLY W/ MFR. I.O.M.



Second Level Mechanical Plan
1/8" = 1'-0"



GENERAL REQUIREMENTS:

ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL LOCAL AND STATE AUTHORITIES HAVING JURISDICTION THEREOF.

ALL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE U.L. LABEL FOR INTENDED USE.

ELECTRICAL SYSTEMS SHALL BE COMPLETE IN EVERY DETAIL, INCLUDING ALL INCIDENTAL ITEMS FOR A PROPER AND FUNCTIONING INSTALLATION SUBJECT TO FINAL APPROVAL OF ARCHITECT/ENGINEER.

ALL REQUIRED PERMIT AND INSPECTIONS SHALL BE OBTAINED BY CONTRACTOR AND SUCH COSTS SHALL BE INCLUDED IN BID PRICE FOR THIS WORK.

PROVIDE UL LISTED SYSTEM FOR FIRE STOPPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. PROVIDE SYSTEM WITH EQUAL OR GREATER RATING THAN ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR RATINGS AND LOCATIONS OF ASSEMBLIES.

EXAMINATION OF SITE IS MANDATORY. CONTRACTOR IS HEREBY HELD TO HAVE EXAMINED THE SITE AND HAVE INCLUDED IN HIS BID PRICE ALL COSTS DUE TO SITE AND FIELD CONDITIONS.

COMPLETE IDENTIFICATION OF PROJECT ELECTRICAL COMPONENTS IS REQUIRED. IDENTIFY ALL PANELS, DISCONNECTS, CONTROL DEVICES, ETC., WITH THE NOMENCLATURE INDICATED ON THE DOCUMENTS AND WITH POWER SOURCE AND ELECTRICAL RATINGS USING PLASTIC LAMINATE NAMEPLATE. INSTALL TYPEWRITTEN DIRECTORIES OF ALL CIRCUITS ON INSIDE OF PANELS. IDENTIFY WIRING DEVICE COVERPLATES WITH PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING DEVICE, E.G. "A-15". PROVIDE 1/2" MACHINE-WRITTEN BLACK LETTERING ON CLEAR PLASTIC ADHESIVE TAPE. LOCATE ON BOTTOM FRONT OF COVERPLATE, CENTERED BELOW WIRING DEVICE(S). SUBMIT SAMPLE OF LABELED TAPE WITH WIRING DEVICE/COVERPLATE SUBMITTAL. SAMPLE MAY BE ADHERED TO PAPERWORK IN SUBMITTAL, RATHER THAN TO A COVERPLATE.

PROVIDE TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION. REMOVE TEMPORARY WIRING UPON COMPLETION OF THE PROJECT. TEMPORARY SERVICES SHALL BE AS REQUIRED, BY N.E.C. AND OSHA. CONTRACTOR IS RESPONSIBLE TO MEET WITH UTILITY TO FOR TEMPORARY POWER PROVISION AND ALL REQUIRED SKID UNITS.

GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ELECTRICAL SYSTEM. INSTALL EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT.

COORDINATE SIZE AND LOCATION OF ANY REQUIRED ACCESS PANELS IN WALLS OR FINISHED CEILINGS WITH ARCHITECT PRIOR TO INSTALLATION.

WARRANTY:
UNLESS A LONGER PERIOD IS SPECIFIED IN INDIVIDUAL PARAGRAPHS, PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON ALL ELECTRICAL WORK BEGINNING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.

SUBMITTALS:
SUBMIT SHOP DRAWINGS FOR ALL MAJOR COMPONENTS OR SYSTEMS OF THE PROJECT. SUBMIT ADDITIONAL SHOP DRAWINGS IF REQUESTED BY ENGINEER.

NO APPARATUS OR EQUIPMENT SHALL BE SHIPPED FROM STOCK OR FABRICATED UNTIL ITS SHOP DRAWINGS HAVE BEEN STAMPED "REVIEWED" OR "APPROVED AS NOTED". SUBMIT DATA REQUIRED FOR TRANSFORMERS SUCH AS EFFICIENCY, REGULATION, CORE LOSS AND SOUND LEVELS. (SEE APPLICABLE SECTIONS).

SUBMIT SYSTEM COMPONENTS, PRODUCT DATA AND SHOP DRAWINGS COMPLETE FOR EACH SYSTEM UNDER ONE SUBMITTAL. DO NOT BREAK OUT EQUIPMENT FOR ONE SYSTEM BETWEEN MULTIPLE SUBMITTALS.

ALL SHOP DRAWINGS MUST BE CLEARLY MARKED TO SHOW EQUIPMENT SUBMITTED AND ANY DEVIATIONS FROM SPECIFICATIONS SHALL BE NOTED THEREON. DO NOT INCLUDE ONLY MODEL NUMBERS TO INDICATE SUBMITTED EQUIPMENT. STRIKE OUT ANY INFORMATION ON PRODUCT DATA THAT IS NOT PROJECT SPECIFIC, AND EDIT RELEVANT INFORMATION TO SHOW ACTUAL EQUIPMENT SUBMITTED. ELECTRICAL CONTRACTOR MUST SIGN AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. UNIQUELY NUMBER EACH PAGE IN SUBMITTAL.

IF DIFFERENT SYSTEMS ARE INCLUDED IN ONE SUBMITTAL, CLEARLY SEPARATE INFORMATION AND PROVIDE DIFFERENT SUB-NUMBERING OF SYSTEMS. SHOP DRAWINGS THAT ARE INCOMPLETE, UNSIGNED AND NOT PLAINLY MARKED WILL NOT BE REVIEWED.

MICHIGAN UNIFORM ENERGY CODE:
THIS IS A PERFORMANCE BASED DESIGN-BUILD SPECIFICATION.

THE INTENT OF THIS SPECIFICATION ITEM IS FOR FULL COMPLIANCE WITH THE REQUIREMENTS OF THE 2015 MICHIGAN UNIFORM ENERGY CODE AND RELATED AMENDMENTS AS THEY APPLY TO THE ASHRAE 90.1-2013 STANDARDS. AUTOMATIC CONTROL APPLIES TO NEW AND TO EXISTING TO REMAIN FIXTURES.

DESIGN AND PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM PER MANUFACTURER'S RECOMMENDATION. INDICATE ALL COMPONENTS ON AS-BUILT DOCUMENTATION. COORDINATE WITH ARCHITECTURAL TRADES TO PROVIDE CEILING ACCESS PANELS WHERE REQUIRED.

PROVIDE OCCUPANCY SENSOR(S) IN EVERY ROOM OR SPACE (EXCEPT WHERE TIME SWITCHES/CONTACTOR CONTROL IS INDICATED) TO AUTOMATICALLY SHUTOFF ALL NON-EMERGENCY LIGHTING WITHIN ITS SPACE WITH ADJUSTABLE TIME DELAY UP TO 30 MINUTES. WHERE INDICATED, CONTROL LIGHTING THROUGH TIME SWITCH WITH ASTRONOMICAL TIME CLOCK. PROVIDE LIGHTING CONTROLLED VIA CONTACTORS AND TIME SWITCHES AS REQUIRED FOR QUANTITY OF CIRCUITS CONTROLLED. PROVIDE HIGH BAY OCCUPANCY SENSORS IN THE HIGH BAY AREAS.

OCCUPANCY SENSORS SHALL BE OF ULTRASONIC, INFRARED OR MULTI-TECHNOLOGY TYPE AS RECOMMENDED BY MANUFACTURER FOR EACH SPACE/APPLICATION CEILING MOUNTED.

OCCUPANCY SENSORS AND ACCESSORIES, TIME CLOCKS, AND CONTACTORS ARE NOT SPECIFICALLY INDICATED. CONTRACTOR TO DESIGN GROUPING OF BRANCH CIRCUITS AND QUANTITY OF TIME CLOCKS AND CONTACTORS REQUIRED AND PROVIDE ACCORDINGLY. PROVIDE LOCAL WALL SWITCHES ON-OFF TYPE IN ADDITION TO OCCUPANCY CONTROL.

PROVIDE UNIVERSAL VOLTAGE POWER SWITCHES (RELAY) PACKS WITH LOAD CONTACTS RATED 20A @ 120/277V FOR EACH SENSOR AS REQUIRED TO ACHIEVE THE LIGHTING CONTROL INTENDED. COORDINATE WITH SWITCH LESS SHOWN ON PLANS. PROVIDE AUXILIARY CONTACT FOR CONTROL OF HVAC EQUIPMENT ON EACH RELAY PACK. MOUNT COMPONENTS CONCEALED ABOVE FINISHED CEILINGS WHEN PRESENT. PROVIDE ACCESS PANELS FOR NON-ACCESSIBLE CEILINGS. WHEN NO FINISHED CEILINGS ARE PRESENT, MOUNT COMPONENTS CONCEALED IN SHEET METAL ENCLOSURE WITH HINGED COVER. SIZE ENCLOSURE TO ACCOMMODATE COMPONENTS AND WIRING, AND COORDINATE LOCATION WITH ARCHITECT.

PROVIDE FIXTURES WITH TANDEM WIRED BALLASTS AS REQUIRED TO COMPLY WITH ASHRAE 90.1. REFER TO THE LIGHTING DRAWINGS FOR COORDINATION WITH FIXTURES, CIRCUITING AND SWITCHING.

LIGHTING CONTROL RELAY PANEL:

PROVIDE A STANDALONE LIGHTING CONTROL RELAY PANEL AND LCD DISPLAY IN A SURFACE MOUNTED ENCLOSURE, SUITABLE FOR OPERATION ON 120VAC CONTROL POWER. PROVIDE LOCKABLE FRONT COVER. TURN OVER MINIMUM TWO KEYS TO OWNER.

PANEL SHALL CONTAIN INTEGRAL ASTRONOMICAL TIME CLOCK WITH AUTOMATIC DAYLIGHT SAVINGS, LEAP YEAR ADJUSTMENTS, AND CAPABILITY TO PROGRAM SITE LOCATION INFORMATION INTO TIME CLOCK FOR USE WITH SUNRISE/SUNSET SETTINGS.

REFER TO PLAN DRAWINGS FOR LOADS CONTROLLED BY RELAY PANEL.

COORDINATE QUANTITY OF RELAYS AND PANELS WITH CIRCUITS BEING CONTROLLED. IN EACH RELAY PANEL IN THE PROJECT, PROVIDE MINIMUM 10X SPARE RELAYS IN ADDITION TO THOSE REQUIRED FOR CONTROLLED CIRCUITS. PANELS MAY BE OF THE SINGLE FEED TYPE WITH BRANCH CIRCUITS AS REQUIRED OR OF THE MULTIPLE FEED TYPE: ONE FOR EACH CIRCUIT NOTED ON THE DRAWINGS AT THE OPTION OF THE CONTRACTOR.

COORDINATE VOLTAGE OF RELAYS WITH CIRCUITS BEING CONTROLLED. PROVIDE 1-POLE RELAYS FOR 120V AND 277V APPLICATIONS, AND 2-POLE RELAYS FOR 208V APPLICATIONS. PROVIDE VOLTAGE BARRIER FOR SEPARATION OF RELAYS CONTROLLING DIFFERENT VOLTAGES. PANEL IS TO INCLUDE CIRCUITRY FOR SWITCHING FULL LOAD AT THE ZERO-CROSSING OF THE AC CURRENT WAVEFORM. RELAYS ARE TO BE NORMALLY OPEN.

PROVIDE LOW VOLTAGE SWITCHES WHICH ARE COMPATIBLE WITH CONTROL PANEL. IDENTIFY LOW VOLTAGE SWITCH COVERPLATES.

PROVIDE LOW VOLTAGE AUTOMATIC CONTROL OVERRIDE MASTER SWITCHES WHERE INDICATED WITH OPERATION AS SPECIFIED. COORDINATE COMPATIBILITY OF SWITCH WITH PANEL AND WITH OPERATION AS SPECIFIED.

LABEL SWITCH COVERPLATE AS SPECIFIED FOR WIRING DEVICES.

PROGRAM RELAY PANEL TO OPERATE WITH LOW VOLTAGE AUTOMATIC CONTROL OVERRIDE SWITCH AS FOLLOWS: OVERRIDE ON: PRESSING THE MASTER SWITCH WITH CIRCUITS OFF WILL TURN ON ALL RELAY-CONTROLLED BRANCH CIRCUITS IN THE PANEL FOR A MAXIMUM OF FOUR HOURS, AND THEN AUTOMATICALLY SHUT CIRCUITS OFF AFTER TIME EXPIRES. CIRCUITS WILL REMAIN OFF UNTIL THE SWITCH IS PRESSED AGAIN, OR UNTIL THE NEXT PROGRAMMED AUTOMATIC ON-TIME OCCURS. OVERRIDE OFF: PRESSING THE MASTER SWITCH WITH CIRCUITS ON WILL TURN OFF ALL RELAY-CONTROLLED BRANCH CIRCUITS IN THE PANEL. CIRCUITS WILL REMAIN OFF UNTIL THE SWITCH IS PRESSED AGAIN, OR UNTIL THE NEXT PROGRAMMED AUTOMATIC ON-TIME OCCURS. THE PROGRAMMED CONTROL OF THE CIRCUITS ABOVE IS TO OPERATE INDEPENDENTLY OF ANY LOCAL SPACE CONTROL.

PROGRAM PANEL TO FLASH LIGHTS PRIOR TO AUTOMATICALLY TURNING THEM OFF.

PROVIDE DATA OUTLET MOUNTED ADJACENT TO PANEL FOR REMOTE PROGRAMMING AND/OR CONNECTION TO OWNER'S COMPUTER NETWORK.

INCLUDE CONTROL PANEL STARTUP/COMMISSIONING AND TRAINING BY MANUFACTURER'S FACTORY-TRAINED PERSONNEL IN ADDITION TO OTHER STARTUP REQUIREMENTS. MANUFACTURER'S FACTORY REPRESENTATIVE IS TO OBTAIN OWNER'S DESIRED OPERATIONAL SCHEDULE FOR EACH CIRCUIT, PROGRAM PANEL WITH SITE-SPECIFIC INFORMATION, AND CONTROL LIGHTING FIXTURES PER OWNER'S SCHEDULE IN COMPLIANCE WITH MICHIGAN UNIFORM ENERGY CODE.

PROVIDE OWNER WITH A MINIMUM OF 2 HOURS OF TRAINING AT JOBSITE BY MANUFACTURER'S FACTORY REPRESENTATIVE.

MANUFACTURERS: LEVITON 2-MAX OR APPROVED EQUAL BY STRAND LIGHTING, COOPER CONTROLS, LUTRON OR HUBBELL.

DEMOLITION AND RENOVATION WORK:

DISCONNECT, REMOVE, RELOCATE, REWIRE OR DISPOSE OF ANY EQUIPMENT INTERFERING WITH NEW CONSTRUCTION OR AFFECTED BY RENOVATION WORK.

ANY ELECTRICAL EQUIPMENT OR SYSTEMS WHICH ARE TO REMAIN, AND ARE AFFECTED BY THIS WORK, SHALL BE IMMEDIATELY RESTORED TO FULL OPERATING CONDITION AND AT NO ADDITIONAL COST TO THE CONTRACT.

EQUIPMENT REMOVED SHALL BE DISPOSED OF AS DIRECTED, EITHER TO STORAGE OR OFF THE PREMISES.

WHERE SERVICES OR CIRCUITS ARE DISCONNECTED OR DISCONTINUED, IT IS MANDATORY THAT ANY EXISTING UNUSED WIRING BE REMOVED TO THE SOURCE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. IT IS THE INTENT OF THIS ARTICLE TO PERMANENTLY DISCONNECT ALL UNUSED CIRCUITS AT THE MAIN SOURCE WHENEVER POSSIBLE, NO ENERGIZED CIRCUIT SHALL BE TAPED AND ABANDONED IN OUTLET BOXES UNLESS SO SPECIFIED ON DRAWINGS.

CIRCUIT TRACE EXISTING TO REMAIN CIRCUITS AS NECESSARY FOR PROPER IDENTIFICATION, AND AS REQUIRED TO PERFORM AND DOCUMENT WORK.

REMODELING WORK INVOLVING EXISTING BRANCH CIRCUIT PANELBOARD SHALL BE SUCH THAT, WHEN ALL WORK IS COMPLETED EXISTING PANELS ARE PROVIDED WITH NEW AND UPDATED ACCURATE DIRECTORIES. ALL VACATED CIRCUITS SHALL BE MARKED SPARE. WHEN NEW BREAKERS ARE REQUIRED, THEY SHALL BE INSTALLED IN EXISTING SPACES AND SHALL MATCH THOSE THAT ARE EXISTING. PROVIDE NEW PANELS IF REQUIRED AND WHERE INDICATED.

CONTRACTOR MAY USE EXISTING CONDUITS AND OUTLET BOXES, PROVIDED THEY ARE IN GOOD ELECTRICAL CONDITION AND THE INSTALLATION IS APPROVED BY THE A.H.J. RE-SUPPORT EXISTING TO REMAIN CONDUIT AND BOXES IN RENOVATION AREA IF INADEQUATELY SUPPORTED. PROVIDE SUPPORT AS REQUIRED TO COMPLY WITH NEC AND AHJ REQUIREMENTS.

IT IS THE INTENT OF THE OVERALL DESIGN TO CONCEAL ALL WORK EXCEPT IN UNFINISHED AREAS. CUT AND PATCH EXISTING SURFACES AS REQUIRED FOR A CONCEALED INSTALLATION.

ALL ELECTRICAL OPENINGS THAT ARE ABANDONED IN WALLS, CEILINGS OR FLOOR SHALL BE PROVIDED WITH SUITABLE BLANK COVER PLATES. ABANDONED FLOOR OUTLETS AND PENETRATIONS SHALL BE FILED TO MATCH EXISTING SURROUNDING CONDITIONS.

CONDUITS AND OTHER PARTS OF ELECTRICAL SYSTEMS THAT BECOME EXPOSED AS A PART OF NEW WORK SHALL BE REMOVED AS REQUIRED TO A POINT WHERE THE ABANDONED PORTION IS TOTALLY CONCEALED.

ALL SURFACES DAMAGED BY THIS CONTRACTOR IN THE COURSE OF PERFORMING WORK SHALL BE RESTORED TO SATISFACTORY CONDITION, AS DIRECTED BY THE ARCHITECT AND ALL COSTS OF REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR

REMOVE SERVICE TO MECHANICAL, ELECTRICAL AND BUILDING EQUIPMENT SPECIFIED AND/OR INDICATED AS REMOVE OR DISCONNECTED. MAINTAIN CIRCUITS TO EXISTING-TO-REMAIN EQUIPMENT. IDENTIFY UNUSED, REMOVED CIRCUITS ON PANEL SCHEDULE AS SPARE. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING TO REMAIN EQUIPMENT AND FOR DEMOLITION WORK.

SERVICE SHUTDOWN AND POWER OUTAGES SHALL BE SCHEDULED WITH THE OWNER PRIOR TO PERFORMING ANY WORK ON EXISTING SERVICE. SCHEDULE SHALL BE PROVIDED IN WRITING 72 HOURS IN ADVANCE AND SHALL SHOW A DETAILED DESCRIPTION OF THE PROPOSED WORK AND THE DURATION OF OUTAGE.

PROVIDE LUMINAIRE DISCONNECTING MEANS PER LIGHTING SPECIFICATIONS.

UTILITY SERVICES:
ELECTRIC SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

TELEPHONE SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

ELECTRICAL EQUIPMENT AND DEVICES:
STEP DOWN TRANSFORMERS SHALL BE GENERAL PURPOSE, DRY TYPE, SELF AIR COOLED, TWO WINDING, UL CLASS 220 INSULATION (115 DEGREE C RISE, 30 DEGREE C HOT SPOT, AND 40 DEGREE C AMBIENT) WITH STANDARD FULL CAPACITY TAPS. VOLTAGE AND KVA AS INDICATED. MANUFACTURERS: GE, EATON, SIEMENS, SQUARE D, OR APPROVED EQUAL. PROVIDE GROUNDING OF TRANSFORMERS AS SEPARATELY DERIVED SOURCES PER NEC ARTICLE 250.30. INCLUDE INSULATION CLASS IN SUBMITTAL INFORMATION.

RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, 2-POLE, 3-WIRE, AND POLARIZED. RECEPTACLES IN GENERAL SHALL BE 20A, 125 V., HUBBELL #HBL5362 OR EQUAL MOUNTED 16" AFF IN OFFICES AREAS AND 48" AFF IN SHOP AREAS EXCEPT AT COUNTERS WHERE THEY SHALL BE 6" ABOVE COUNTER AND IN TOILET ROOMS AT 48" AFF. RECEPTACLES ON SINGLE CIRCUIT SHALL BE 20 AMPERES, HUBBELL #HBL5362. HIGH AMPERE RATINGS AND VOLTAGES ARE INDICATED ON DRAWINGS.

RECEPTACLES DESIGNATED "GRF" SHALL BE GROUND FAULT RECEPTACLES, SIMILAR TO HUBBELL #GF-5362. FOR OUTDOOR OR WET LOCATIONS, PROVIDE WEATHERPROOF BOX AND GASKETED COVER PLATE. WIRE "GRF" RECEPTACLES FOR SELF PROTECTION AND NOT DOWNSTREAM PROTECTION OF OTHER WIRING DEVICES.

SWITCHES SHALL BE SINGLE POLE, TWO POLE, OR THREE-WAY, AS INDICATED, TOGGLE TYPE, 20A, 120/277V., QUIET TYPE, HUBBELL #1221/1222/1223 OR APPROVED EQUAL. PILOT TYPE SWITCHES HUBBELL #1251.

PROVIDE DIMMERS RATED FOR LOAD WATTAGE AND VOLTAGE CONTROLLED. CONTRACTOR TO COORDINATE RATING BASED ON APPROVED FIXTURE SUBMITTALS AND ACTUAL FIXTURE QUANTITIES. PROVIDE DIMMERS DESIGNED FOR CONTROLLED LOAD CONSULT LIGHT FIXTURE MANUFACTURER FOR COMPATIBLE DIMMER SWITCHES.

WIRING DEVICE COLORS SHALL BE WHITE OR AS SELECTED BY OWNER/ARCHITECT.

DEVICE COVER PLATES SHALL BE OF TYPE AND NUMBER OF GANGS FOR DEVICES INSTALLED, SMOOTH EDGED 302/304 GRADE BRUSHED STAINLESS STEEL. PROVIDE BRANCH CIRCUIT IDENTIFICATION ON ALL COVERPLATES AS SPECIFIED UNDER "GENERAL REQUIREMENTS". COVERPLATES FOR DEVICES CONNECTED TO THE EMERGENCY SYSTEM SHALL ALSO BE FACTORY LABELED WITH BLACK LETTERING TO READ "EMERGENCY".

PROVIDE TELEPHONE/DATA OUTLETS AND STUBS AS INDICATED. TELEPHONE/DATA OUTLETS SHALL CONSIST OF TWO GANG OUTLET BOX WITH PLASTER RING AND NO COVER PLATE. JACK AND COVER PLATE ARE SUPPLIED BY OTHERS. HEIGHT OF OUTLET FOR DESK PHONE IS 16" AFF AND FOR WALL PHONE 48" AFF. TELEPHONE/DATA OUTLETS SHALL CONTAIN OF 3/4" CONDUIT FROM OUTLET TO AN ACCESSIBLE PORTION OF CEILING SPACE. TERMINATE WITH INSULATING BUSHING.

CONDUCTORS:

ALL CONDUCTORS SHALL BE SOFT-DRAWN COPPER OF SIZES INDICATED ON THE DRAWINGS. ALL CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS AND WITH 75 DEGREES (CENTIGRADE) CODE GRADE INSULATION.

CONDUCTORS SIZED #10 AND SMALLER SHALL BE SOLID. ALL CONDUCTORS LARGER THAN #10 SHALL BE MADE UP OF STRANDED SINGLE CONDUCTOR CABLE. CONDUCTORS SHALL HAVE THWN OR THHN INSULATION AS APPLICABLE. CONDUCTORS IN UNDERGROUND CONDUIT AND FOR SERVICE ENTRANCE CONDUCTOR SHALL HAVE XHHW OR THWN INSULATION.

#12 AWG SHALL BE THE MINIMUM WIRE SIZE ALLOWED EXCEPT #14 AWG MAY BE USED FOR CONTROL WIRING.

TYPICAL BRANCH CIRCUITS FROM 20A, 1-POLE BRANCH OVERCURRENT DEVICES ARE 1/2"C, 2#12 AND 1#12G.

STARTERS, SAFETY SWITCHES, FUSES AND HEATERS:
MANUAL MOTOR STARTERS SHALL BE 600V TOGGLE TYPE, WITH THERMAL OVERLOAD ELEMENT FOR MOTOR PROTECTION STAINLESS STEEL COVER PLATE AND PILOT LIGHT; FLUSH IN ALL AREAS EXCEPT IN UNFINISHED SPACES. CONTRACTOR TO COORDINATE AND PROVIDE QUANTITY OF POLES AS REQUIRED FOR BRANCH CIRCUIT AND LOAD SERVED. MANUAL MOTOR SWITCHES SHALL BE THE SAME AS MANUAL STARTERS EXCEPT WITHOUT OVERLOADS AND USED AS DISCONNECTING MEANS.

MAGNETIC MOTOR STARTERS SHALL BE 600 VOLT 3-PHASE WITH 3 THERMAL OVERLOAD ELEMENTS, HOA SWITCH AND RESET BUTTON IN COVER AND GREEN RUNNING PILOT LIGHT. NEMA ENCLOSURE AND SIZE AS INDICATED. COMBINATION STARTERS SHALL HAVE BUILT-IN FUSED DISCONNECT. PROVIDE START-STOP PUSH BUTTONS FOR USE IN HAND (MANUAL) MODE.

PROVIDE THERMAL ALLOY MELTING TYPE HEATER ELEMENTS FOR ALL MOTORS BASED ON MOTOR NAMEPLATE DATA. SAFETY AND DISCONNECT SWITCHES SHALL BE 250 OR 600 VOLTS AS REQUIRED, HEAVY DUTY, TWO OR THREE POLE, "QUICK-MAKE", "QUICK-BREAK" SWITCH MECHANISM AND COVER INTERLOCK. SWITCHES SHALL BE FUSED OR UNFUSED AS INDICATED AND SHALL HAVE PAD LOCK PROVISIONS, WITH NEMA TYPE ENCLOSURE FOR LOCATION USED. SWITCHES SHALL BE SQUARE "D"CLASS 3110 OR APPROVED EQUAL.

PROVIDE ALL NECESSARY FUSES AND REPLACE ALL THOSE BLOWN DURING CONSTRUCTION. ALL FUSES SHALL BE TIME LAG, DUAL ELEMENT, BUSSMAN "LOW PEAK YELLOW" OR EQUAL.

PANELBOARDS:
MAIN DISTRIBUTION PANELS SHALL BE AS SHOWN ON DRAWINGS, BRACED FOR 35,000 A.I.C. MINIMUM, DEAD FRONT CONSTRUCTION. VOLTAGE, PHASE, AMPERE RATING, AND DEVICES SHALL BE AS INDICATED ON THE DRAWINGS.

LIGHTING PANELS SHALL BE OF VOLTAGE, PHASE, SERVICE AND NUMBER OF WIRES INDICATED ON THE DRAWINGS. BREAKERS SHALL BE THERMAL MAGNETIC, TRIP FREE, SINGLE OR MULTIPOLE, BOLTED DESIGN, MOLDED CASE, MINIMUM 10,000 A.I.C. AT 240 VOLTS OR 14,000 A.I.C. AT 277 VOLTS. DEVICES SHALL BE AS INDICATED ON THE DRAWINGS OR AS SCHEDULED.

LIGHTING PANELS RATED FOR 277/480V, 3-PHASE, 4W SERVICE SHALL BE SQUARE D TYPE "NF" OR EQUAL, AND THOSE RATED FOR 120/208V, 3-PHASE, 4-WIRE SERVICE SHALL BE SQUARE D TYPE "NQD" OR EQUAL. LOAD CENTERS ARE NOT PERMITTED.

CONTRACTOR, MANUFACTURER MAY RE-ARRANGE CIRCUIT ORDER IN PANELS, HOWEVER CIRCUIT NUMBERS FROM PANELBOARD SCHEDULES IN CONTRACT DOCUMENTS MUST BE INDICATED ON ANY SUBMITTED PANELBOARD ELEVATIONS, DRAWINGS, TABLES AND SCHEDULES.

ARC FLASH:

REFER TO AVAILABLE FAULT CURRENTS NOTED ON THE DRAWINGS AND PERFORM CALCULATIONS AS REQUIRED TO APPLY FIELD MARKINGS FOR ARC FLASH INCLUDING RECOMMENDED MARKING REQUIREMENTS, BOUNDARIES AND DESCRIPTIONS. FIELD MARK DISTRIBUTION EQUIPMENT (SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, AND MOTOR CONTROL CENTERS) WITH FLASH PROTECTION INFORMATION PER NATIONAL ELECTRICAL CODE ARTICLE 110.16, FLASH PROTECTION. INCLUDE CALCULATED RATINGS ON MARKINGS. PROVIDE ANY ADDITIONAL MARKINGS ON EQUIPMENT AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. FIELD MARK FLASH PROTECTION BOUNDARIES RESULTING FROM CALCULATIONS PER NFPA 70E.

INSTALLATION AND METHODS OF EXECUTION:

ALL WIRING SHALL BE IN CONDUIT, MINIMUM 1/2". FLEXIBLE METAL CONDUIT SHALL BE USED FOR SHORT CONNECTION TO MOTORS, FINAL CONNECTION TO RECESSED LIGHTING FIXTURES FROM RIGIDLY MOUNTED OUTLET BOX (NOT BETWEEN FIXTURES), VIBRATING EQUIPMENT, ETC., BUT NEVER LONGER THAN 6 FEET. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR ALL APPLICATIONS EXPOSED TO WATER OR WEATHER. PROVIDE ANTI-SHORT BUSHINGS FOR ALL FLEXIBLE CONDUIT ARMOR TERMINATIONS. PROVIDE SEPARATE EQUIPMENT GROUND WIRE IN ALL CONDUIT RUNS.

CONDUIT CONCEALED IN CEILING, WALLS OR FURRED SPACES OR EXPOSED IN DRY LOCATIONS SHALL BE EMT. THIN WALL ELECTRIC METALLIC TUBING. CONDUIT EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE, BURIED IN SLAB, OR IN HAZARDOUS AREAS, SHALL BE HEAVY WALL, RIGID. ALL CONDUITS SHALL BE HOT DIPPED GALVANIZED STEEL.

ALL WORK IN HAZARDOUS LOCATIONS SHALL BE DONE IN STRICT CONFORMANCE WITH NEC ARTICLE 500.

PLASTIC CONDUIT, PVC-40, SHALL BE USED ONLY AS INDICATED ON THE DRAWINGS. PLASTIC CONDUIT SHALL BE APPROVED FOR UNDERGROUND USE. PVC BURIAL DEPTH SHALL BE 36" MINIMUM BELOW FINISH GRADE. IN PVC CONDUIT SYSTEMS, RISERS ABOVEGROUND SHALL BE RIGID HEAVY WALL STEEL.

CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. EXACT ROUTING OF CONDUIT RUNS SHALL SUIT JOB CONDITIONS. EXPOSED CONDUIT SHALL BE RUN ONLY IN UNFINISHED AREAS SUBJECT TO FINAL APPROVAL OF ENGINEER AND SHALL RUN PARALLEL TO BUILDING LINES, NEVER DIAGONALLY.

CONNECTION TO EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SHOP AND INSTALLATION DRAWINGS. REQUIREMENTS GENERALLY VARY FROM ONE MANUFACTURER TO ANOTHER AND CONTRACTOR IS BOUND TO COMPLY AND PROVIDE ALL WORK AS REQUIRED ALTHOUGH CERTAIN DISCREPANCIES MAY EXIST REGARDING THE REQUIREMENT FROM ONE MANUFACTURER TO ANOTHER.

PROVIDE POWER WIRING, DISCONNECTS, AND PROTECTION DEVICES TO ALL MECHANICAL EQUIPMENT AND MAKE FINAL CONNECTIONS, INCLUDING TESTING OF MOTORS FOR PROPER ROTATION.

OUTLET BOXES MAY-BE SURFACE MOUNTED ON EXISTING WALLS (CMU, BRICK OR CONCRETE) WITH SMALLEST SURFACE RACEWAY AS REQUIRED FOR WIRING INSTALLED. PROVIDE FLUSH OUTLET BOXES AND CONDUIT AT NEW CONSTRUCTION WALL AND AT EXISTING WALLS WHICH ARE NOT CMU BRICK OR CONCRETE CONSTRUCTION. CUT AND PATCH EXISTING WALLS AS REQUIRED FOR FLUSH INSTALLATION.

PROVIDE 4" TALL CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

ALL WIRING LOCATED ABOVE THE SUSPENDED CEILING MUST BE SUPPORTED INDEPENDENTLY OF THE SUPPORT WIRES FOR THE SUSPENDED CEILING.

OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF TWENTY FOUR (24) INCHES.

ELECTRICAL OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING PER ARTICLE 300.21 2017 NEC.

PROVIDE PROPER WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT AS REQUIRED PER NEC.

LIGHTING SPECIFICATIONS:

LED LIGHTING FIXTURES SHALL HAVE 5 YEAR WARRANTY, A COLOR RENDERING INDEX OF 90 OR HIGHER, 3500K COLOR TEMPERATURE UNLESS OTHERWISE INDICATED ON DRAWINGS, LIFETIME: 50,000 HOURS OR GREATER AND MAINTAIN AT LEAST 70% OF INITIAL LUMEN OUTPUT. RATED FOR OUTDOOR USE AND WET LOCATION, IF IN OPEN FIXTURE.

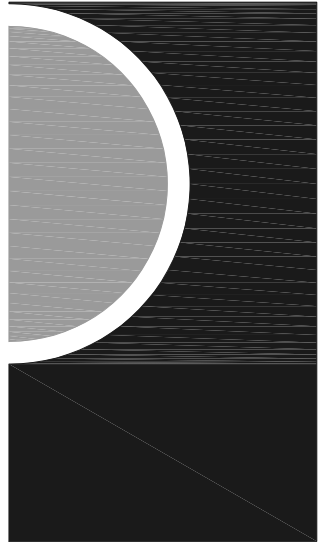
SHALL POSSESS COLOR MANAGEMENT SYSTEM TO MAINTAIN COLOR CONSISTENCY OVER TIME AND TEMPERATURE OF NO GREATER THAN ±100K OVER LIFE.

REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL REFLECTED CEILING PLANS FOR LED FIXTURES WITH DIMMING CHARACTERISTICS.

LED DRIVERS TO BE ELECTRONIC, HIGH POWER FACTOR, MIN. 0.9; UNIVERSAL VOLTAGE 120-277V; 5 YEAR WARRANTY, COMPATIBLE WITH THE LED LAMP OR MODULE USED.



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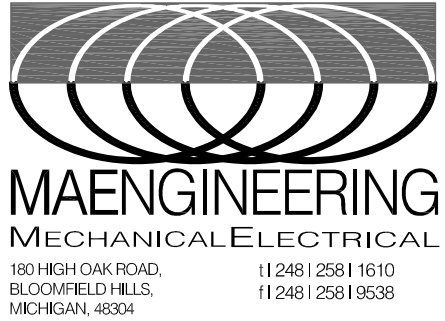
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CONSULTANT



KEY PLAN

OWNER

City of Dexter

PROJECT NAME

New City Hall
Renovations

PROJECT NO.

21-113

ISSUES / REVISIONS

Permits	12/22/2021
Addendum 1	01/19/2022

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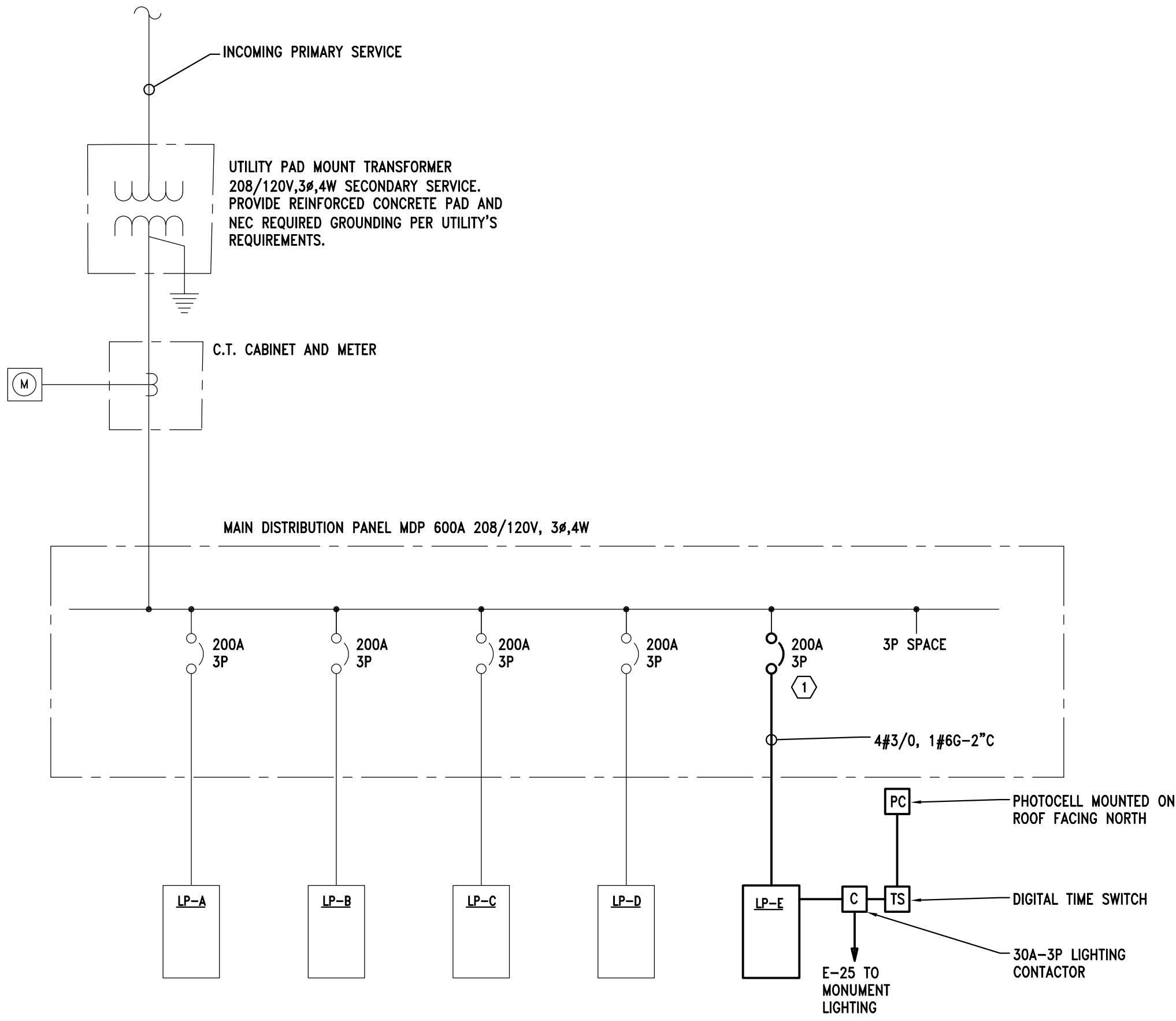
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SHEET NAME

ELECTRICAL
SPECIFICATION

SHEET NO.

E0-02



ONE LINE DIAGRAM

NO SCALE

KEY NOTES:

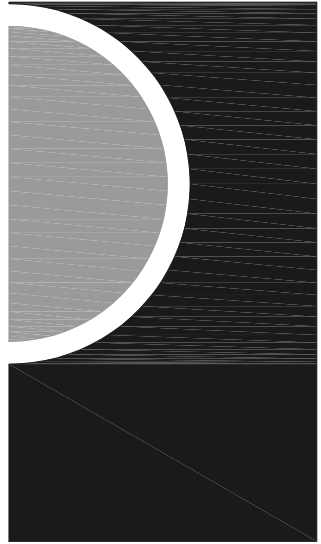
- 1 PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.
- 2 ALL NEW WORK IS SHOWN BOLD.

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LAMPING	WATTS PER FIXTURE	REMARKS
L1	4"TH X 4"W X LENGTH AS INDICATED ON PLAN SUSPENDED LINEAR DIRECT/INDIRECT LED FIXTURE WITH EXTRUDED ALUMINUM HOUSING, WHITE FINISH, FLUSH FROSTED WHITE DIFFUSERS, MULTI-VOLT 0-10V DIMMING DRIVER. FOCAL POINT SEEM 4 SERIES FINELITE HP-4 SERIES APPROVED EQUAL.	1000 LUMENS DIRECT, 275 LUMENS INDIRECT PER LINEAR FOOT 3500K, 80 CRI	12W PER LINEAR FOOT	AIRCRAFT CABLE SUSPENSION, HEIGHT AS DIRECTED BY ARCHITECT.
L2	4.5"TH X 2"W X LENGTH AS INDICATED ON PLAN SUSPENDED LINEAR DIRECT LED FIXTURE WITH EXTRUDED ALUMINUM HOUSING, WHITE FINISH, FLUSH FROSTED WHITE DIFFUSERS, MULTI-VOLT 0-10V DIMMING DRIVER. FOCAL POINT SEEM 2 SERIES FINELITE HP-2 SERIES APPROVED EQUAL.	500 LUMENS PER LINEAR FOOT, 3500K, 80 CRI	4.5W PER LINEAR FOOT	AIRCRAFT CABLE SUSPENSION, HEIGHT AS DIRECTED BY ARCHITECT.
L3	SAME AS TYPE L2 EXCEPT RECESSED MOUNTING. FOCAL POINT SEEM 2 SERIES FINELITE HP-2 SERIES APPROVED EQUAL.	500 LUMENS PER LINEAR FOOT, 3500K, 80 CRI	4.5W PER LINEAR FOOT	
L4	4.5"TH X 2"W X LENGTH AS INDICATED ON PLAN SUSPENDED LINEAR DIRECT/INDIRECT LED FIXTURE WITH EXTRUDED ALUMINUM HOUSING, WHITE FINISH, FLUSH FROSTED WHITE DIFFUSERS, MULTI-VOLT 0-10V DIMMING DRIVER. FOCAL POINT SEEM 2 SERIES FINELITE HP-2 SERIES APPROVED EQUAL.	625 LUMENS DIRECT, 250 LUMENS INDIRECT PER LINEAR FOOT 3500K, 80 CRI	8W PER LINEAR FOOT	AIRCRAFT CABLE SUSPENSION, HEIGHT AS DIRECTED BY ARCHITECT.
L5	6" DIAMETER LED RECESSED DOWNLIGHT FIXTURE WITH STEEL HOUSING, MEDIUM WIDE DISTRIBUTION, FLUSH LENS, SELF-FLANGED, CLEAR SEMI- SPECULAR, MULTI-VOLT 0-10V DIMMING DRIVER. GOTHAM EVO6 SERIES APPROVED EQUAL.	2000 LUMENS, 3500K, 80 CRI	20W	
L6	2X2 LAY-IN RECESSED LED TROFFER WITH STEEL HOUSING, FLUSH WHITE DOOR FRAME, ACRYLIC PRISMATIC LENS, MULTI-VOLT 0-10V DIMMING DRIVER. LITHONIA 2GTL SERIES APPROVED EQUAL.	3300 LUMENS, 3500K, 80 CRI	31W	
L7	4" DIAMETER CONAL TRACK HEAD WITH STEEL HOUSING, CLEAR GLASS LENS, WHITE FINISH NARROW FLOOD DISTRIBUTION, DIMMING DRIVER, COMPATIBLE SINGLE CIRCUIT TRACK LENGTH AS INDICATED. JUNO 27W CONX II LED SERIES APPROVED EQUAL.	1928 LUMENS 3500K, 90 CRI	27.4W	SUSPEND TRACK AS DIRECTED BY ARCHITECT.
L8	8.7"W X 5.35" H X 3.21" DP WALL MOUNT LED DIRECT/INDIRECT SCONCE WITH SATIN CHROME FINISH, FROSTED ACRYLIC DIFFUSERS, 0-10V DIMMING DRIVER. EUREKA BOX 3414B SERIES APPROVED EQUAL.	1020 LUMENS, 3500K, 85 CRI	12W	
L9	8"TH X 11" W X 3" DP WALL MOUNT LED FIXTURE WITH DIE-CAST ALUMINUM HOUSING, FINISH SELECTED BY ARCHITECT, IP66 RATED, INTEGRAL EMERGENCY BATTERY FOR 90 MINUTE MINIMUM EMERGENCY OPERATION. LITHONIA WPX LED P1 SERIES APPROVED EQUAL.	1550 LUMENS, 3000K	11W	CONNECT EMERGENCY FUNCTION AHEAD OF SWITCH CONTROL.
L10	24"L X 10"H LINEAR LED SIGN LIGHT FIXTURE WITH DIE-CAST ALUMINUM HOUSING, STAINLESS STEEL FASTNERS, ACRYLIC UV RESISTANT LENS, IP67 RATED, MFL DISTRIBUTION, ADJUSTABLE DIRECTION. HYDREL 4750L SERIES APPROVED EQUAL.	3192 LUMENS, 3000K, 80 CRI	32.5W	PROVIDE WITH 42" DEEP CONCRETE BASE FOR 3'-0" SET-BACK FROM SIGN.
X1	LED EXIT LIGHT FIXTURE WITH WHITE POLYCARBONATE HOUSING, RED LETTERS, MOUNTING AND ARROWS AS INDICATED WITH SELF-CONTAINED NICAD BATTERY FOR 90 MINUTES MINIMUM EMERGENCY OPERATION, INTEGRAL BATTERY CHARGER, MULTI-VOLT DRIVER AND SELF-DIAGNOSTICS. LITHONIA LQM SERIES DUALITE EQUAL SURELITE EQUAL.		1W	CONNECT TO NEAREST LOCAL LIGHTING CIRCUIT AHEAD OF LIGHTING CONTROL.
"E" SUFFIX	SAME AS FIXTURE TYPE INDICATED TOGETHER WITH INTEGRAL BATTERY AND TRANSFER DEVICE TO ALLOW FULL CONTROL DURING NORMAL POWER OPERATION AND AUTOMATIC FULL BRIGHT DURING POWER FAILURE. PROVIDE BATTERY WITH 90 MINUTES MINIMUM OPERATION AND SELF-DIAGNOSTICS AND INTEGRAL CHARGER. BODINE IOTA			CONNECT TO NEAREST LOCAL LIGHTING CIRCUIT AHEAD OF LIGHTING CONTROL.

- LIGHT FIXTURE GENERAL NOTES:
- INSTALL ALL FIXTURES AS DIRECTED BY CORRESPONDING ARCHITECTURAL DETAIL FOR THAT PARTICULAR FIXTURE TYPE.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LOCATION.
 - INSTALL REMOTE DRIVERS HIDDEN IN ACCESSIBLE LOCATIONS WITHOUT EXCEEDING MANUFACTURERS RECOMMENDATIONS FOR MAXIMUM DISTANCE FROM LAMP SOURCE. COORDINATE ALL DRIVER LOCATIONS WITH ARCHITECT.
 - PROVIDE DIMMERS COMPATIBLE WITH LAMP TYPE AND DRIVER TYPE SPECIFIED.



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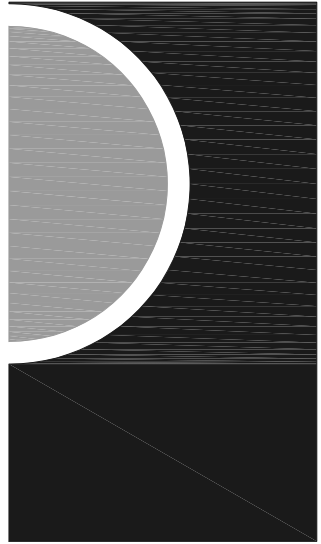
SHEET NAME

LIGHT FIXTURE
SCHEDULE, ONE
LINE DIAGRAM

SHEET NO.

E0-03

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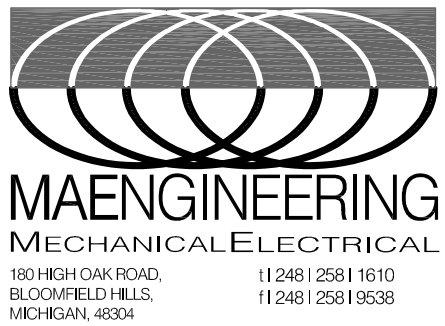
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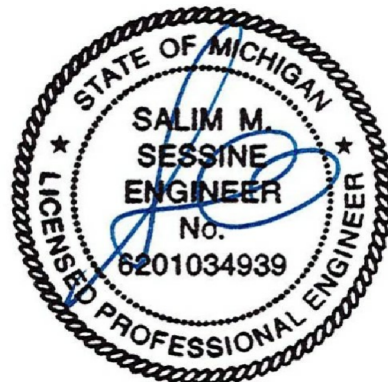
MJM

SHEET NAME

ELECTRICAL
PANELS
SCHEDULES

SHEET NO.

E0-04



PANEL: EXISTING MDP				MOUNTING: SURFACE			
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G				A/C: EXISTING			
MAIN: 600 A MLO				FEEDER: EXISTING			
				SPD EQUIPPED: NO			
Circ No	Breaker Pole	Trip	Load Information Location/Description	FEEDER:		Amps Conn Dem	
1	3	200	EXISTING LP-A	EXISTING		38.9	38.9
2	3	200	EXISTING LP-B	EXISTING		69.0	69.0
3	3	200	EXISTING LP-C	EXISTING		62.5	62.5
4	3	200	EXISTING LP-D	EXISTING		93.0	93.0
5	3	200	LP-E - NOTE 3	REFER TO ONE LINE DIAG.		106.2	106.2
6	3						
CONNECTED KVA: 133.1							
CONNECTED AMPS: 369.5					Totals:	369.5	369.5
DEMAND KVA: 133.1							
DEMAND AMPS: 369.5							

NOTES:
1. ALL WORK SHOWN BOLD IS NEW.
2. REPLACE CIRCUIT AS INDICATED.
3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.

PANELBOARD: EXISTING LP-A				MOUNTING: EXISTING			
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G				A/C: EXISTING			
MAIN: 200 A MCB				FEEDER: EXISTING			
				SPD EQUIPPED: NO			
Circ No	Breaker Pole	Trip	Load Information Description	Connected Watts Phase A Phase B Phase C			
1			SPACE				
3			SPACE				
5			SPACE				
7			SPACE				
9			SPACE				
11			SPACE				
13			SPACE				
15			SPACE				
17			SPACE				
19			SPACE				
21			SPACE				
23			SPACE				
25			SPACE				
27			SPACE				
29	1	20	EXISTING LOAD				1000
31	1	20	EXISTING LOAD		1000		
33	1	20	EXISTING LOAD			1000	
35	1	20	EXISTING LOAD				1000
37			SPACE				
39			SPACE				
41			SPACE				
2			SPACE				
4			SPACE				
6			SPACE				
8			SPACE				
10			SPACE				
12			SPACE				
14			SPACE				
16			SPACE				
18			SPACE				
20			SPACE				
22			SPACE				
24			SPACE				
26			SPACE				
28			SPACE				
30			SPACE				
32	1	20	EXISTING LOAD		1000		
34	1	20	EXISTING LOAD			1000	
36	1	20	EXISTING LOAD				1000
38	1	20	EXISTING LOAD		1000		
40						3000	
42	2	60	SHED PANEL				3000
CONNECTED KW: 14					Phase Watts:	3,000	5,000
CONNECTED AMPS: 39							6,000
DEMAND KW: 14							
DEMAND AMPS: 39							

NOTES:
1. ALL WORK SHOWN BOLD IS NEW.
2. REPLACE CIRCUIT AS INDICATED.
3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.

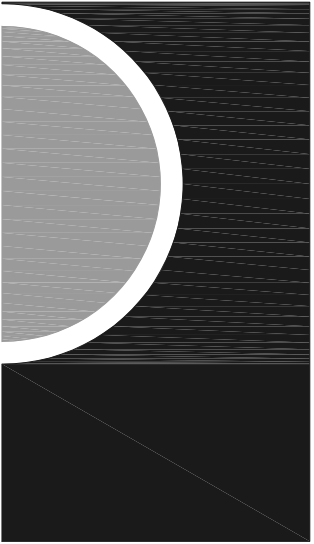
PANELBOARD: EXISTING LP-B				MOUNTING: EXISTING			
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G				A/C: EXISTING			
MAIN: 200 A MLO				FEEDER: EXISTING			
				SPD EQUIPPED: NO			
Circ No	Breaker Pole	Trip	Load Information Description	Connected Watts Phase A Phase B Phase C			
1	1	20	EXISTING LOAD	500			
3	1	20	EXISTING LOAD		500		
5	1	20	EXISTING LOAD			500	
7	1	20	EXISTING LOAD	500			
9	1	20	EXISTING LOAD		500		
11	1	20	EXISTING LOAD			500	
13	2	50	CONDENSING UNIT	3000			
15					3000		
17	1	20	EXISTING LOAD			500	
19	1	20	EXISTING LOAD	500			
21	1	15	EXISTING LOAD		500		
23	1	20	LIGHTING - NOTE 3				1040
25	1	20	LIGHTING - NOTE 3	324			
27			SPACE				
29			SPACE				
31			SPACE				
33			SPACE				
35			SPACE				
37			SPACE				
39			SPACE				
41			SPACE				
2	1	20	EXISTING LOAD	500			
4	1	20	EXISTING LOAD		500		
6	1	15	EXISTING LOAD			500	
8	1	20	EXISTING LOAD	500			
10	1	20	EXISTING LOAD		500		
12	1	20	EXISTING LOAD			500	
14	1	20	EXISTING LOAD	500			
16	1	20	EXISTING LOAD		500		
18	1	20	EXISTING LOAD			500	
20	1	20	EXISTING LOAD	500			
22	1	20	REFRIGERATOR		1000		
24	1	20	MICROWAVE			1000	
26	2	30	TECHNOLOGY ROOM RECEPTACLE	1500			
28					1500		
30				1500			1500
32	2	30	TECHNOLOGY ROOM RECEPTACLE				
34	1		SPACE				
36	1		SPACE				
38	1		SPACE				
40	1		SPACE				
42	1		SPACE				
CONNECTED KW: 25					Phase Watts:	9,824	8,500
CONNECTED AMPS: 69							6,540
DEMAND KW: 25							
DEMAND AMPS: 69							

NOTES:
1. ALL WORK SHOWN BOLD IS NEW.
2. REPLACE CIRCUIT AS INDICATED.
3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.

PANELBOARD: EXISTING LP-D				MOUNTING: EXISTING			
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G				A/C: EXISTING			
MAIN: 200 A MLO				FEEDER: EXISTING			
				SPD EQUIPPED: NO			
Circ No	Breaker Pole	Trip	Load Information Description	Connected Watts Phase A Phase B Phase C			
1	1	20	EXISTING LOAD	500			
3	1	20	EXISTING LOAD		500		
5	1	20	EXISTING LOAD			500	
7	1	20	EXISTING LOAD	500			
9	1	20	EXISTING LOAD		500		
11	1	20	EXISTING LOAD			500	
13	1	20	EXISTING LOAD	500			
15	1	20	EXISTING LOAD		500		
17	1	20	EXISTING LOAD			500	
19	1	20	EXISTING LOAD	500			
21	1	20	EXISTING LOAD		500		
23	1	20	EXISTING LOAD			500	
25	1	20	EXISTING LOAD	500			
27	1	20	EXISTING LOAD		500		
29	2	30	SPARE				
31							
33	1	20	AC-01 FURNACE		1000		
35	1	20	AC-02 FURNACE			1000	
37	1	20	AC-03 FURNACE	1000			
39	1	20	AC-04 FURNACE		1000		
41	1	20	AC-05 FURNACE			1000	
2	1	20	EXISTING LOAD	500			
4	1	20	EXISTING LOAD		500		
6	1	20	EXISTING LOAD			500	
8	1	20	EXISTING LOAD	500			
10	1	20	EXISTING LOAD		500		
12	1	20	EXISTING LOAD			500	
14	1	20	EXISTING LOAD	500			
16	1	20	EXISTING LOAD		500		
18	1	20	EXISTING LOAD			500	
20	1	20	EXISTING LOAD	500			
22	1	20	EXISTING LOAD		500		
24							1000
26	2	20	CU-01 CONDENSING UNIT	1000			
28					1000		
30	2	20	CU-02 CONDENSING UNIT			1000	
32	2	30	CU-03 CONDENSING UNIT	2000			
34					2000		
36	2	30	CU-04 CONDENSING UNIT		2000		
38				2000			
40	2	30	CU-05 CONDENSING UNIT			2000	
42							2000
CONNECTED KW: 34					Phase Watts:	10,500	11,500
CONNECTED AMPS: 93							
DEMAND KW: 34							
DEMAND AMPS: 93							

NOTES:
1. ALL WORK SHOWN BOLD IS NEW.
2. REPLACE CIRCUIT AS INDICATED.
3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE.

PANELBOARD: LP-E				MOUNTING: SURFACE			
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G				A/C: 10,000			
MAIN: 200 A MLO				FEEDER: REFER TO ONE LINE DIAGRAM			
				SPD EQUIPPED: NO			
Circ No	Breaker		Load Information Description	Connected Watts			
	Pole	Trip		Phase A	Phase B	Phase C	
1	1	20	RECEPTACLES	900			
3	1	20	MONITOR		240		
5	1	20	RECEPTACLES			540	
7	1	20	RECEPTACLES	360			
9	1	20	RECEPTACLES		900		
11	1	20	RECEPTACLES			1080	
13	1	20	RECEPTACLES	900			
15	1	20	SPARE				
17	1	20	SPARE				
19	1	20	SPARE				
21	1	20	SPARE				
23	2	20	ELUH-1		1500	1500	
25	1	20	MONUMENT SIGN LIGHTING	130			
27	1	20	SPARE				
29	1	20	SPARE				
31	1	20	SPARE				
33	1	20	SPARE				
35	1	20	SPARE				
37	1	20	SPARE				
39	1	20	SPARE				
41	1	20	SPARE				
2							
4	3	35	ELEVATOR	2640			
6					2640		
8						2640	
10	2	40	HP-1-O, HP-1A-I, HP-1B-I	2950			
12	2	30	HP-4-O, HP-4-I		2950		
14				2396		2396	
16	2	30	HP-3-O, HP-3-I		2396		
18						2396	
20	2	30	HP-2-O, HP-2-I	2396			
22					2396		
24	2	15	ERV-1			1011	
26				1011			
28	1	20	SPARE				
30	1	20	SPARE				
32	1	20	SPARE				
34	1	20	SPARE				
36	1	20	SPARE				
38	1	20	SPARE				
40	1	20	SPARE				
42	1	20	SPARE				
CONNECTED KW: 38				Phase Watts:	13,683	13,022	11,563
CONNECTED AMPS: 106							
DEMAND KW: 38							
DEMAND AMPS: 106							



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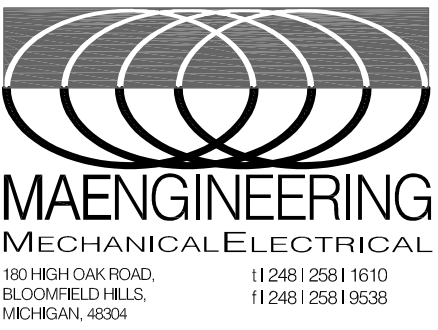
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KEY PLAN

OWNER

City of Dexter

PROJECT NAME

New City Hall Renovations

PROJECT NO.

21-113

ISSUES / REVISIONS

Permits	12/22/2021
Addendum 1	01/19/2022

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SHEET NAME

MAIN LEVEL
DEMO PLAN

SHEET NO.

ED-01

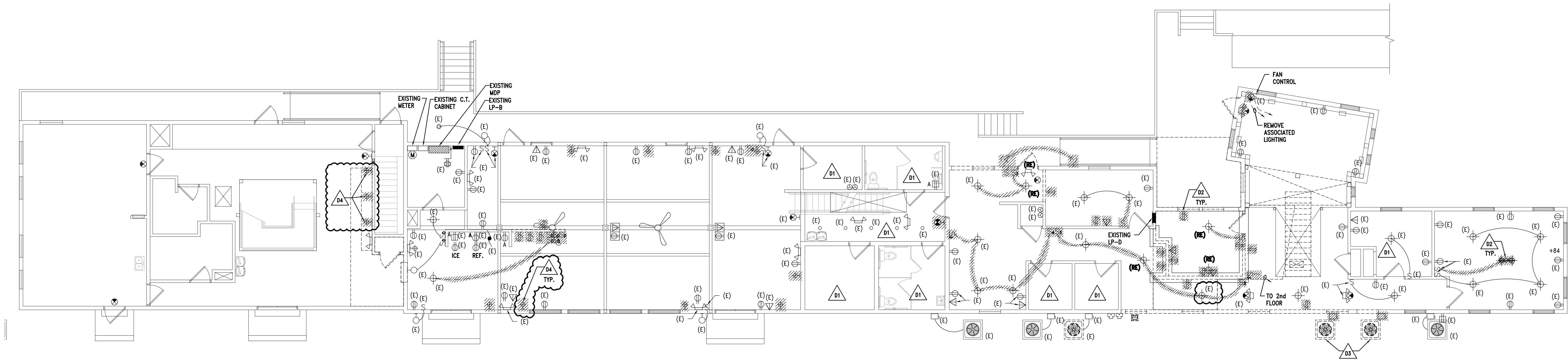
KEY NOTES :

D1 NO WORK IN THIS ROOM.

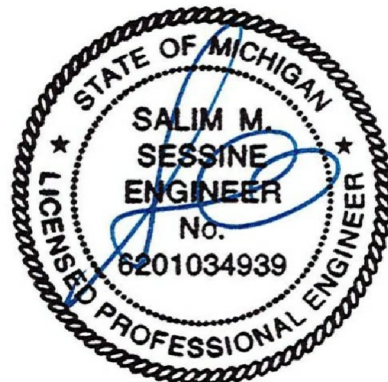
D2 REMOVE ALL EQUIPMENT SHOWN HATCHED INCLUDING WIRE AND CONDUIT BACK TO SOURCE. MAINTAIN CIRCUITING TO DEVICES REMAINING.

D3 CONDENSING UNITS TO BE RELOCATED.

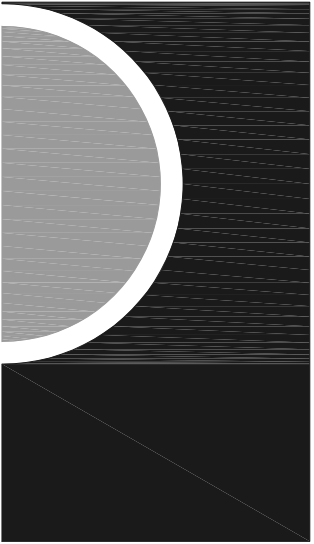
D4 REMOVE LIGHT FIXTURE AND PREPARE CIRCUIT FOR EXTENSION TO NEW LIGHT FIXTURE.



1 Main Level Demo Plan
1/8" = 1'-0"



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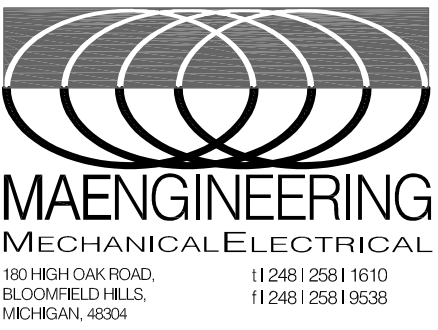
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SECOND LEVEL
DEMO PLAN

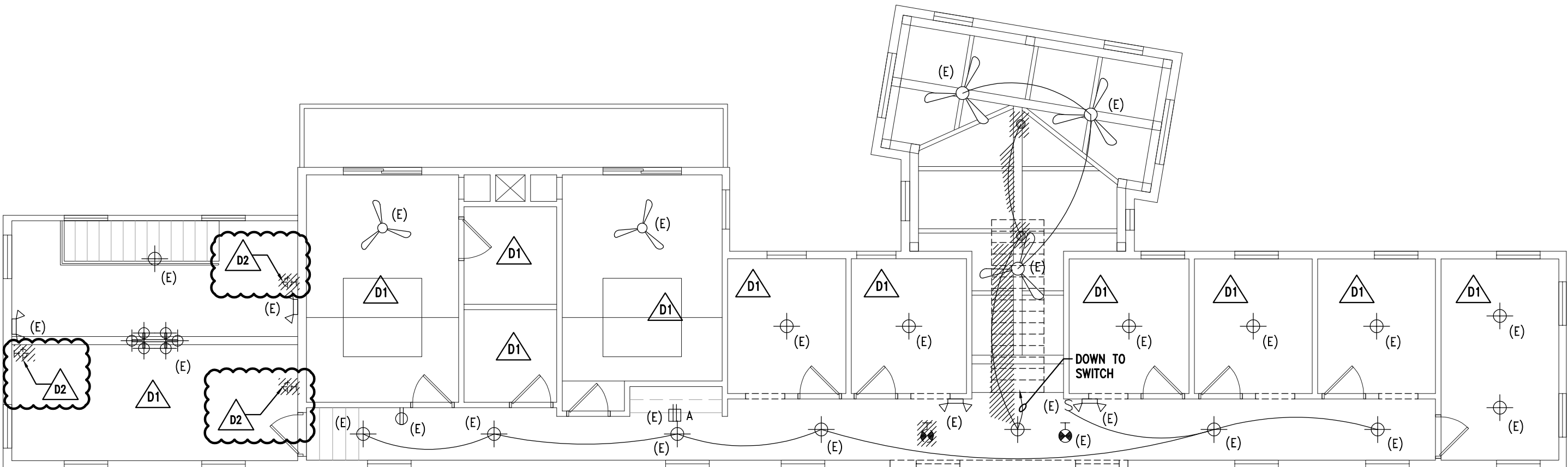
SHEET NO.

ED-02

KEY NOTES :

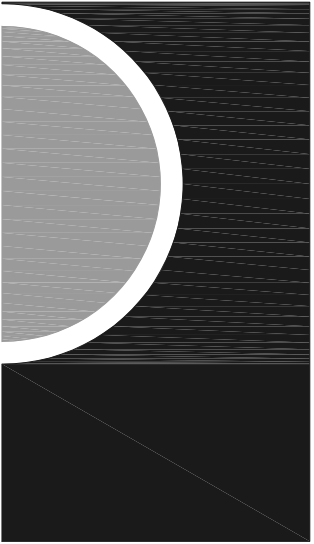
D1 NO WORK IN THIS ROOM.

D2 REMOVE LIGHT FIXTURE AND PREPARE CIRCUIT FOR EXTENSION TO NEW LIGHT FIXTURE.



Second Level Demo Plan
1/8" = 1'-0"





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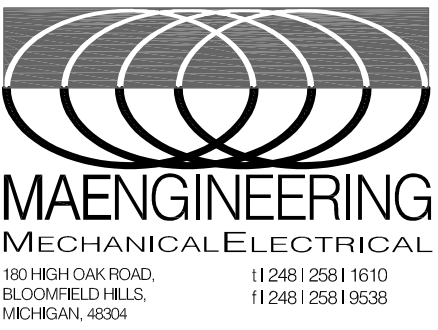
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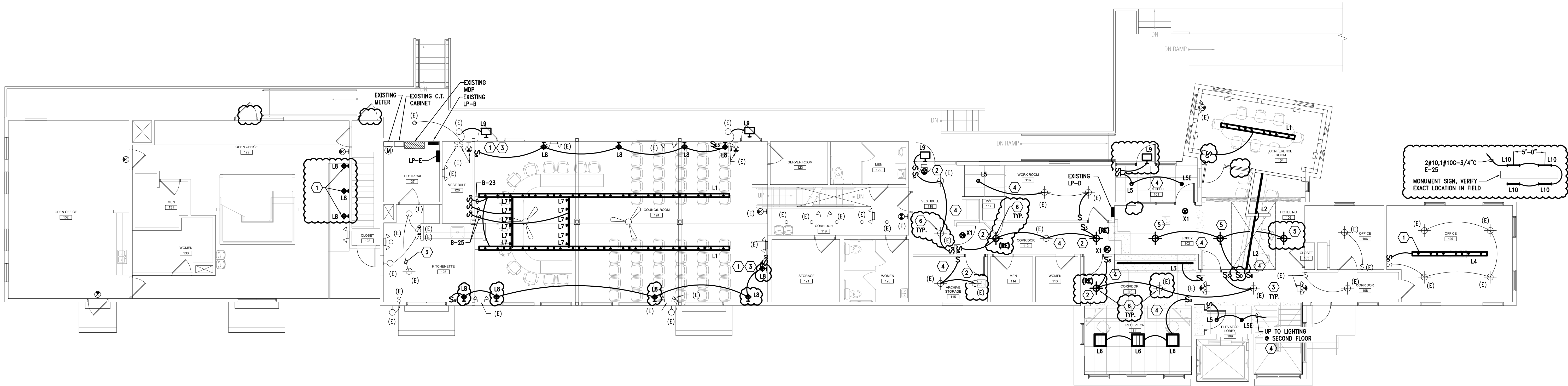
MAIN LEVEL
LIGHTING PLAN

SHEET NO.

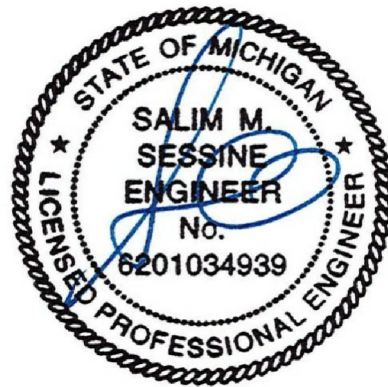
E1-01

KEY NOTES :

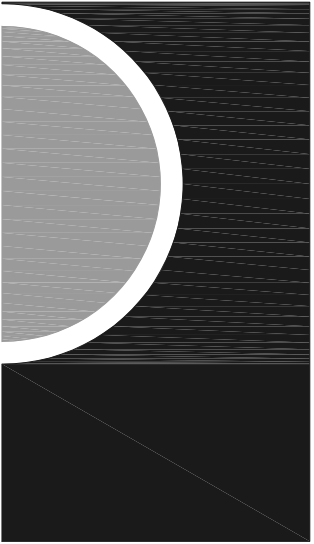
- 1 CONNECT TO EXISTING CIRCUIT.
- 2 NEW LOCATION FOR SALVAGED LIGHT FIXTURE.
- 3 RE-CONFIGURE LIGHTING CONTROL AS INDICATED.
- 4 RE-WORK LIGHTING CIRCUITS TO ACCOMMODATE NEW LIGHTING LAYOUT UNLESS OTHERWISE NOTED.
- 5 SURFACE MOUNT FIXTURE WITH GLASS DIFFUSED GLOBE, WIRE GUARD, BRUSHED ALUMINUM FINISH HOUSING TO MATCH EXISTING. VERIFY MANUFACTURER IN FIELD. PROVIDE WITH COMPARABLE LED A-LAMP.
- 6 PROVIDE EXISTING AND RELOCATED LIGHT FIXTURES WITH COMPARABLE LED LAMP.



Main Level Lighting Plan
1/8" = 1'-0"



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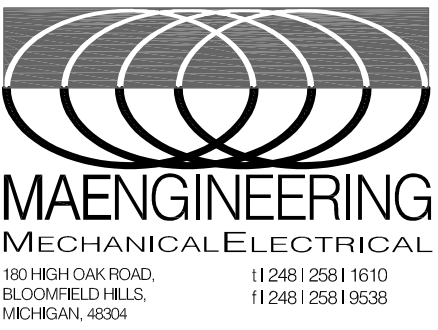
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SECOND LEVEL
LIGHTING PLAN

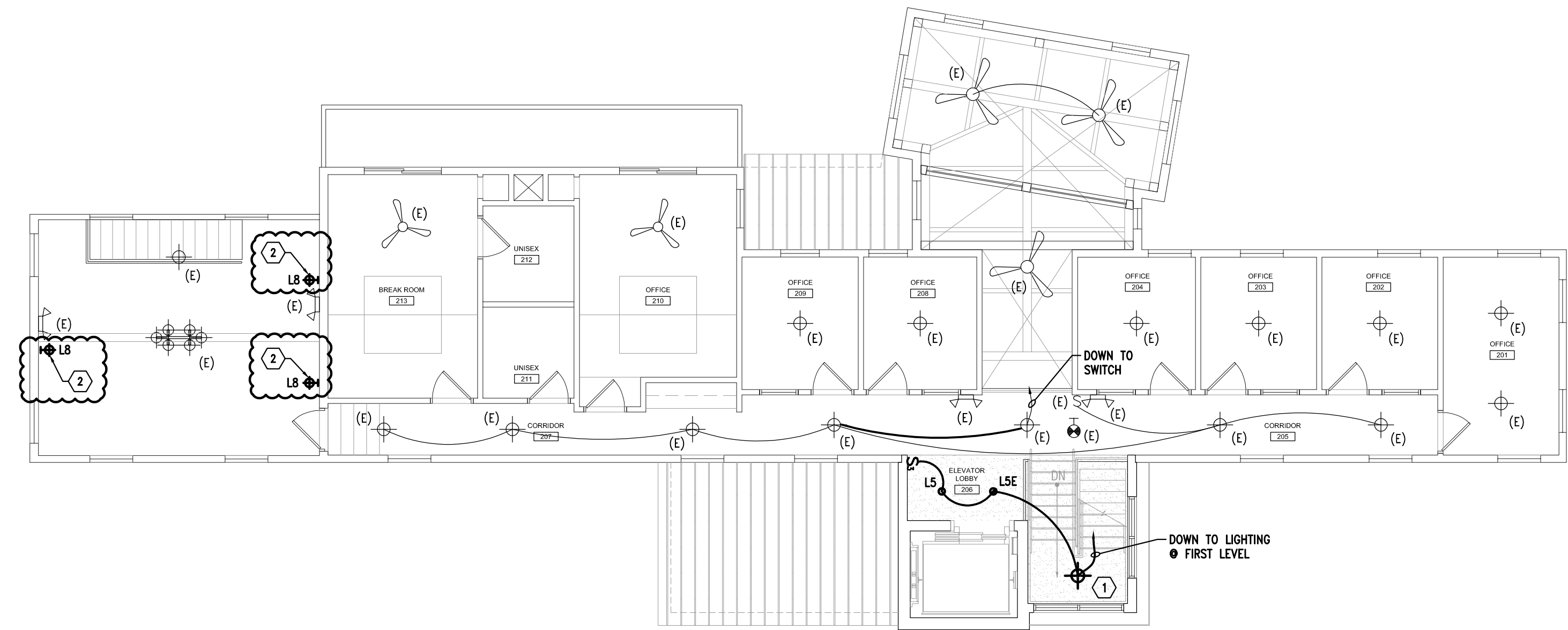
SHEET NO.

E1-02

KEY NOTES :

1 RELOCATE "ARTICHOKE" FIXTURE FROM AREA "c". ADJUST SUSPENSION FOR 6'-8" CLEAR AFF.

2 CONNECT TO EXISTING CIRCUIT.



Second Level Lighting Plan
1/8" = 1'-0"

