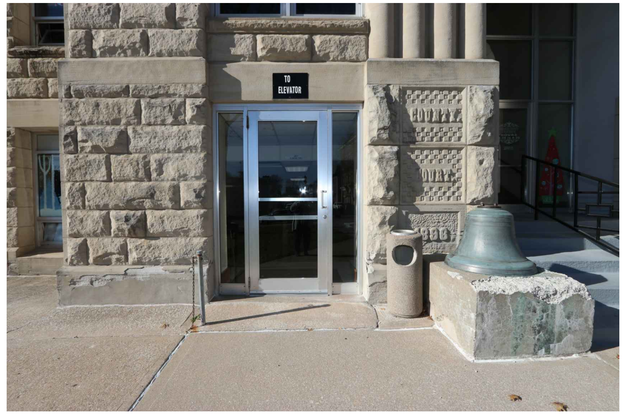
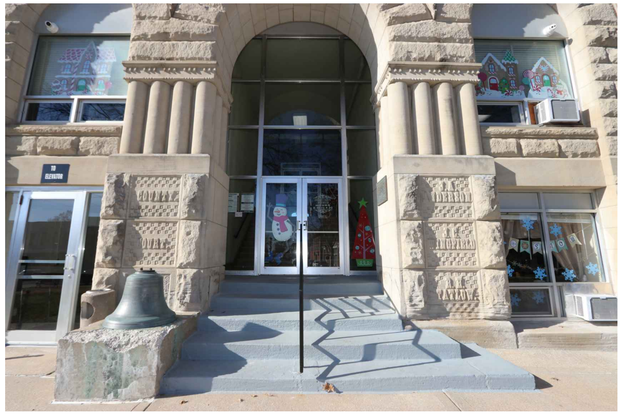
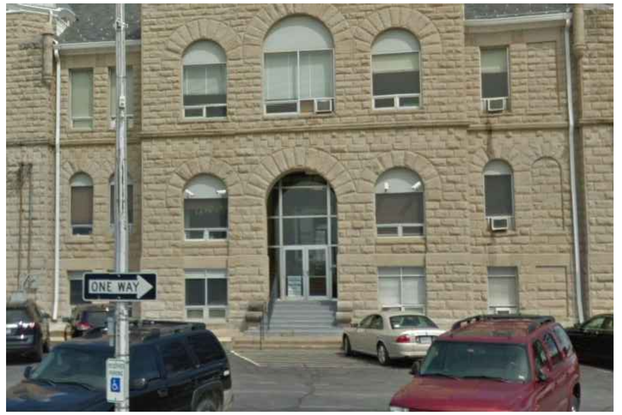
EAST ACCESSIBLE ENTRANCE - VIEW LOOKING WEST



EAST PRIMARY ENTRANCE - VIEW LOOKING WEST



WEST SECONDARY ENTRANCE - VIEW LOOKING EAST



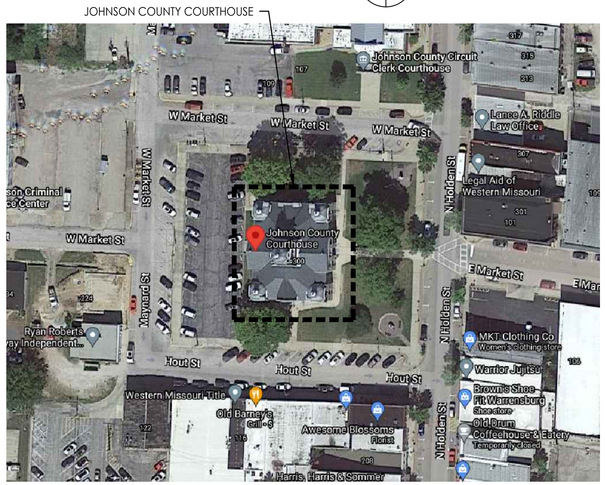
JOHNSON COUNTY COURTHOUSE
EAST AND WEST ENTRANCES

300 NORTH HOLDEN STREET,
WARRENSBURG, MISSOURI 64093

CONSTRUCTION BID DOCUMENTS
FEBRUARY 24, 2023

ARCHITECT:	STRUCTURAL ENGINEER:	MEP ENGINEER:
STRATA ARCHITECTURE INC. 1701 OAK STREET, SUITE 100 KANSAS CITY, MISSOURI 64108 T: 816-474-0900 CONTACT: MS. TRUDY FAULKNER, AIA LEED AP	STRUCTURAL ENGINEERING ASSC. 1000 WALNUT STREET, SUITE 1570 KANSAS CITY, MISSOURI 64106 T: 816-421-1042 CONTACT: MR. PHILIP STEED, P.E.	PKMR ENGINEERS 13300 WEST 98TH STREET LENEXA, KANSAS 66215 T: 913-312-0151 CONTACT: MR. DAVID DEATHERAGE, P.E., LEED AP

SITE VICINITY MAP



PROJECT DESCRIPTION:

Historically, the Johnson County Courthouse was constructed from 1896-1898. The courthouse was designed by George E. McDonald (Architect) and constructed by J.M. Anderson General Contractor). Subsequent renovation and restoration campaigns of a large scale have occurred in 1964, 1996 and 2001. The two and a half-story building, plus Basement and Attic spaces, was designed in the Richardson-Romanesque architectural style and is a masonry structure with wood framing at the roof. The building's masonry is comprised of Warrensburg Sandstone from the Pickel Quarries, located just north of Warrensburg, Missouri. The building has retained a significant amount of its historic character defining features at both the interior and exterior. The project focus is to address the East Primary Entrance, the East Accessible Entrance, and the West Secondary Entrance where conditions of failing masonry, non-code compliant elements, and deficiencies related to accessibility and security access control are present. While modifications have been installed throughout time, the original context of the historic design remains largely intact.

The East Primary Entrance retains its original construction with the exception of slight modifications to the stone stair treads and handrails, and the addition of a low, concrete plinth to the south of the door for holding the clock tower bell. Minor repairs are to be completed to address failing areas of masonry, plaster and sealants. A new concrete plinth will be installed to support the bell. New handrails will be installed at the exterior stone stair. Investigations for deterioration at the interior wood framed stair are to be conducted.

The East Accessible Entrance was created in the 1964 modifications by conversion of an original window into a door opening and installation of a concrete landing and stairs at the interior. A wooden ramp and handrail were added at the interior at a more recent date over the south side of the concrete stairs. The approach from the exterior and elements of the interior design do not fully meet accessibility requirements. The exterior concrete sidewalk immediately adjacent to the door will be lowered, the door sill and interior concrete landing and stair will be demolished along with the wooden ramp and associated handrails. A new interior landing, stair, ramp, and entrance door with electronic controls for improved accessibility will be installed. Modifications at the ceiling will be completed for improved height clearances.

The West Entrance retains the original stone treads and stone sidewalls. A new concrete step has been added at the base of the stair to coordinate with site modifications at the west parking area. Handrails and coatings at the stairs have been integrated throughout the years. The existing stone treads, sidewalks and the base of the surrounding building walls are in a highly weathered condition with areas of failure. The stone stairs are to be demolished along with the immediate surrounding sidewalks and part of the upper stair landing. The historic stone sidewalls are to remain in place and be protected throughout construction. New stairs and handrails are to be installed with a concrete support structure. Minor masonry repairs are to be completed. Repairs to the plaster at the landing and new sealants are to be installed for a weather tight enclosure at the landing entrance. New ice melt mats are to be integrated.Removal of existing interior handrails at stairs, patching and installation of new rails will be completed.

Note: All rehabilitation work will be monitored by the Missouri State Historic Preservation Office and mock-up approvals completed prior to construction. All work shall meet the requirements set forth by the *Secretary of the Interior's Standards for the Treatment of Historic Properties.* The work is to utilize the preservation principles found within the National Park Service's Technical Preservation Briefs for rehabilitation. These documents can be found at: www.nps.gov/tps/standards.htm AND www.nps.gov/tps/how-to-preserve/briefs.htm

GENERAL PROJECT NOTES:

NOTE: THE BUILDING WILL BE OCCUPIED WHILE WORK IS IN PROGRESS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA BEFORE AND AFTER EACH WORK DAY. NO WEEKEND WORK WILL BE ALLOWED AT THE EXISTING BUILDING UNLESS APPROVED BY THE OWNER IN ADVANCE. WORK THAT REQUIRES USE OF LOUD EQUIPMENT THAT WOULD CAUSE A DISTURBANCE TO THE ADJACENT PROPERTY OWNERS IS ENCOURAGED TO BE COMPLETED DURING TRADITIONAL BUSINESS HOURS OF 8 AM - 5 PM. GENERAL CONTRACTOR SHALL COORDINATE WITH THE JOHNSON COUNTY COMMISSIONERS FOR PERMITTING REQUIREMENTS.

A. CONTRACTOR TO PROVIDE A DETAILED SCHEDULE OF WORK FOR THE OWNER AND ARCHITECT TO REVIEW AND APPROVE PRIOR TO THE INITIATION OF WORK. **NOTE: WORK IS TO BE SEQUENCED IN PHASES WITH ONLY ONE ENTRANCE CLOSED AT A TIME. PREFERRED SEQUENCE IS EAST PRIMARY ENTRANCE, EAST ACCESSIBLE ENTRANCE NEXT, AND WEST ENTRANCE LAST.** COORDINATION OF WORK ACTIVITIES WITH THE OWNER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

B. COST OF CONSTRUCTION MUST INCLUDE THE FOLLOWING, BUT NOT BE LIMITED TO: MATERIALS, LABOR, ACCESS, DELIVERY AND TRANSPORTATION.

C. ALL REQUIRED COMMUNICATION SHALL BE THROUGH THE OWNER/ARCHITECT OF RECORD.

D. THE RESPONSIBILITIES CONCERNING THE PREPARATION AND REVIEW OF THE APPLICATION FOR PAYMENT AND PAYMENT SCHEDULE SHALL BE ADDRESSED IN THE AGREEMENTS BETWEEN THE OWNER AND CONTRACTOR.

E. ALL CONTRACTORS SHALL BE LICENSED AND INSURED TO PERFORM WORK, AS REQUIRED BY THE LOCAL AND STATE AUTHORITIES. CONTRACTOR MUST SUBMIT TO OWNER AN INSURANCE CERTIFICATE FOR COMPREHENSIVE GENERAL PUBLIC LIABILITY COVERAGE AS REQUIRED BY THE COUNTY. THIS CERTIFICATE MUST NAME THE OWNER AND ADDITIONAL INSURED AS IDENTIFIED BY THE OWNER.

F. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSTRUCT IN CONFORMANCE WITH ALL LOCAL CODES, ORDINANCES AND PROCEDURES.

G. DO NOT SCALE FROM DRAWINGS. FOLLOW THE WRITTEN DIMENSIONS AND INSTRUCTIONS AS WELL AS FIELD VERIFICATION OF EXISTING CONDITIONS. DIMENSIONS ARE FROM THE FACE OF WALL UNLESS NOTED OTHERWISE.

H. ALL DIMENSIONS ARE APPROXIMATE. ACTUAL FIELD-VERIFIED DIMENSIONS SHALL BE OBTAINED BY THE CONTRACTOR AND SUBCONTRACTORS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. FIELD CONDITIONS WHICH DIFFER FROM THOSE INDICATED ON THE CONSTRUCTION DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THE TIME OF THEIR FINDING AND PRIOR TO THE COMMENCEMENT OF SAID WORK.

I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF THE EXISTING BUILDING CONDITIONS AS THEY RELATE TO THE PROPOSED REHABILITATION. ANY DISCREPANCIES THAT ARE DISCOVERED BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THE TIME OF THEIR FINDING AND PRIOR TO THE COMMENCEMENT OF SAID WORK. PHOTOGRAPHIC DOCUMENTATION OF EXISTING CONDITIONS IS TO BE PROVIDED TO OWNER FOR RECORD PRIOR TO COMMENCEMENT OF WORK.

J. CONTRACTOR SHALL REQUEST REVIEW AND APPROVAL OF SHOP DRAWINGS FROM THE ARCHITECT FOR FINAL SELECTION OF ALL MATERIALS (IN WRITING) BEFORE COMMENCING WITH CONSTRUCTION. SHOP DRAWINGS ARE ALLOWED TO BE EMAILED TO THE ARCHITECT FOR REVIEW. IF THE SHOP DRAWING IS TOO LARGE OR IN A FORMAT THAT IS DIFFICULT TO EMAIL, A SINGLE STAMPED COPY SHALL BE GIVEN TO THE ARCHITECT . THE ARCHITECT WILL DISTRIBUTE A STAMPED REVIEWED COPY TO THE OWNER AND CONTRACTOR.

K. NO SUBSTITUTES OF SPECIFIED CONSTRUCTION ITEMS, EQUIPMENT AND FINISHES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND ARCHITECT.

L. CONTRACTOR AND SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR THE CONSTRUCTION PROCESS, MATERIAL VERIFICATION, AND WORKER SAFETY. CONTRACTOR IS TO INSTALL ALL MATERIALS PER MANUFACTURERS' CURRENT REQUIREMENTS AND STANDARDS, UL RATING REQUIREMENTS, SPECIFIC TRADE GUIDELINES, INDUSTRY STANDARDS AND PER BUILDING CODES.

M. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE SCHEDULED WORK.

N. CONTRACTOR AND SUBCONTRACTORS SHALL MAKE NO STRUCTURAL CHANGES WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

O. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ARCHITECTURAL, STRUCTURAL, AND MEP WORK WITH ALL OTHER BUILDING TRADES THAT CORRELATE TO SUCH WORK IN ORDER TO ENSURE THAT THE WORK DESIGNATED IS COORDINATED AND COMPLETED ON SCHEDULE.

P. ALL DEMOLITION DEBRIS SHALL BE TAKEN TO A LICENSED LANDFILL WITH PROOF PROVIDED TO THE OWNER. PLACEMENT OF TRASH RECEPTACLES FOR CONSTRUCTION DEBRIS MUST BE COORDINATED WITH THE OWNER. RECEPTACLES SHALL NOT BLOCK ENTRANCES, STAIRS OR OTHERWISE ENCROACH ON THE PUBLIC RIGHT-OF-WAY.

Q. ALL SURFACES AND MATERIALS ON THE INTERIOR AND EXTERIOR OF THE BUILDINGS ARE TO BE TREATED AS HISTORIC MATERIALS. THE EXISTING HISTORIC MATERIALS IDENTIFIED TO REMAIN ARE TO BE PROTECTED THROUGHOUT CONSTRUCTION AND ARE NOT TO BE DISTURBED OR REMOVED UNLESS NOTED IN THE DRAWINGS AND AUTHORIZED BY THE OWNER.

R. PATCH, REPAIR OR REPLACE EXISTING CONSTRUCTION TO REMAIN AS REQUIRED, IN KIND, DUE TO DEMOLITION OR NEW CONSTRUCTION. REPAIRS OR REPLACEMENTS MUST MATCH THE EXISTING MATERIAL IN TEXTURE, PROFILE, DIMENSION, COLOR/FINISH AND WHERE APPROPRIATE, SPECIES IN ORDER TO ACHIEVE A SEAMLESS APPEARANCE.

S. ALL HISTORIC ITEMS (MATERIAL OR ARCHITECTURAL) PERMANENTLY REMOVED FROM THE BUILDING DURING REHABILITATION WORK ARE THE PROPERTY OF THE OWNER AND ARE TO BE SALVAGED OR DISPOSED OF AS DIRECTED BY THE OWNER.

T. NO HISTORIC ARCHITECTURAL MATERIALS SHALL BE REMOVED FROM THE SITE, UNLESS OTHERWISE NOTED, WITHOUT THE APPROVAL OF THE OWNER.

U. PROVIDE CONSTRUCTION FENCING, SIGNAGE, AND PROTECTION MEASURES THROUGHOUT CONSTRUCTION TO PROTECT BUILDING OCCUPANTS AND THE GENERAL PUBLIC TO ENSURE PEDESTRIANS DO NOT ENTER THE CONSTRUCTION JOBSITE / WORK AREA. SIGNAGE IS TO BE INSTALLED DURING CONSTRUCTION TO MEET ADA REQUIREMENTS AT LOCATIONS DICTATED BY CODE WHERE APPLICABLE (SIDEWALK AND PARKING CLOSURES, ETC.)

V. ALL REHABILITATION CONTRACTORS, AS REQUIRED, SHALL HAVE CURRENT LEAD PAINT CERTIFICATION FROM THE US ENVIRONMENTAL PROTECTION AGENCY (EPA). THE ENGINEER / ARCHITECT SHALL NOT BE LIABLE FOR ANY PROPERTY DAMAGE OR PERSONAL INJURY TO ANY PERSON OR ENTITY RESULTING FROM ANY HAZARDOUS MATERIALS OR CIRCUMSTANCES EXCLUDED FROM COVERAGE BY ENGINEER / ARCHITECT'S INSURANCE.

W. SMOKING IS NOT PERMITTED WITHIN THE PROJECT AREA. SMOKING IS LIMITED TO SPECIFIC AREAS AS DEFINED BY THE OWNER.

X. ALL CONTRACTORS SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT; BOTH AS TO MATERIAL AND WORKMANSHIP, FOR A PERIOD OF TWELVE (12) MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION. IN ADDITION, ANY DAMAGE TO ADJACENT AREAS AND SURFACES CAUSED BY FAULTY MATERIALS OR WORKMANSHIP SHALL ALSO BE REPAIRED TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST.

Y. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL INTERIOR / EXTERIOR SURFACES AFFECTED BY THE CONSTRUCTION SCOPE OF WORK TO THE OWNER'S SATISFACTION, PRIOR TO PROJECT COMPLETION. THE GENERAL CONTRACTOR, PRIOR TO OCCUPANCY, SHALL REMOVE ALL TRASH, CONSTRUCTION DEBRIS, MATERIALS, TOOLS, ETC. FINAL CLEANUP SHALL CONSIST OF THE FOLLOWING:
   a. CLEAN SPACE OF ALL CONSTRUCTION DEBRIS, MATERIALS, TOOLS, ETC.
   b. CLEAN INTERIOR WALL SURFACES IN SCOPE OF WORK AREAS AND AT SURFACE DIRECTLY ADJACENT TO THESE AREAS AFFECTED BY THE CONSTRUCTION WORK.
   c. CLEAN ALL FLOORS OF PASSAGE FROM GROUND TO FIRST FLOOR AS REQUIRED TO REMOVE CONSTRUCTION DEBRIS.
   d. CLEAN ALL WINDOW AND DOOR GLAZING THROUGHOUT THE CONSTRUCTION AREA, INSIDE AND OUT

Z. SPECIAL INSPECTIONS ARE REQUIRED FOR THE NEW CONCRETE WORK TO BE INSTALLED AT THE WEST ENTRANCE. WORK IS TO BE COORDINATED WITH THE OWNER FOR SCHEDULING INSPECTIONS.

AA. INSPECTIONS FOR TERMITE ACTIVITY AND ANY ACTIVE OR INACTIVE DETERIORATION IS TO BE COMPLETED AT THE EAST PRIMARY ENTRANCE STAIR AND UNDERSTAIR AREA.

INDEX OF DRAWINGS:

STRATA
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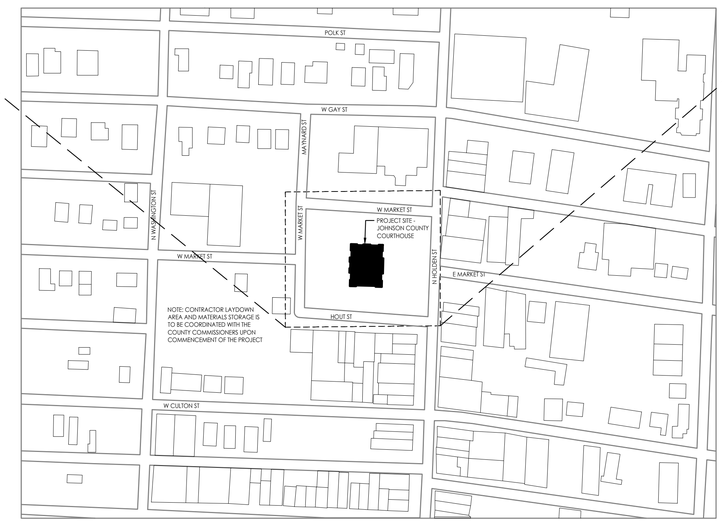
WARRENSBURG, MISSOURI 64093

Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023
REVISION & DATE:

COVER
SHEET NUMBER:

G001



1 Architectural Site / Location Plan

Scale: N.T.S.

CODE INFORMATION:

AT THIS TIME, THERE ARE NO PLANNING AND ZONING REGULATIONS, BUILDING CODES, INSPECTION OR OCCUPANCY CERTIFICATES IN JOHNSON COUNTY, MISSOURI FOR THE UNINCORPORATED AREAS, UNLESS THE PROPERTY IS LOCATED IN THE WHITEMAN AIR FORCE BASE ZONING AREA, INSIDE INCORPORATED CITY LIMITS CITY ZONING ORDINANCES MAY APPLY. CONTACT CITY HALL FOR MORE INFORMATION.

FOR THE PURPOSES OF THIS PROJECT, THE FOLLOWING ARE TO BE ADHERED TO:

ZONING:
CB - CENTRAL BUSINESS ZONING DISTRICT

LEGAL DESCRIPTION: HOLDENS 1ST - LT 116 TO INC 120 S 70FT . N 80FT LT 140 TO INC 144 . VAC ST

ADOPTED CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FUEL GAS CODE
NOTE: LOCAL AMENDMENTS TO THE CODE ARE IN CHAPTER 6 OF THE CODE OF CITY ORDINANCES

BUILDING OCCUPANCY WILL NOT CHANGE OR BE AFFECTED:
OCCUPANCY TYPE: BUSINESS GROUP B

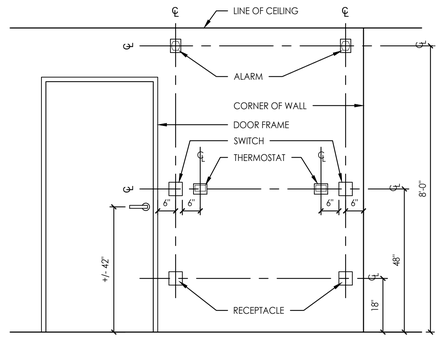
CONSTRUCTION TYPE:
TYPE V-B, CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY CODE. NO FIRE RATING IS REQUIRED FOR STRUCTURAL FRAMING OR BEARING WALLS. VERTICAL SHAFTS REQUIRE A 1 HOUR RATING.

CITY CONTACTS:
BUILDING OFFICIAL:
BRETT PENROSE
PHONE: 660.747.9135

BUILDING INSPECTOR:
JUSTIN WYNE
PHONE: 660.747.9135

4 APPROVED CODE REGULATIONS

Scale: N.T.S.



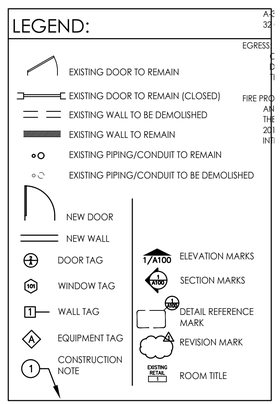
TYPICAL ELECTRICAL DEVICE LOCATIONS

ALL DEVICES SHALL BE LOCATED AT A CORNER OR DOOR JAMB, AS SHOWN. NOTIFY ARCHITECT OF ANY CONFLICTS.

ALL WALL MOUNTED DEVICE LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH ALL OTHER SUB-CONTRACTORS SO THAT THEY ARE INSTALLED IN AN ORDERLY MANNER (I.E. LIGHT SWITCHES, RECEPTACLE, FIRE ALARM DEVICES, COMMUNICATION DEVICES, THERMOSTATS, ETC.) THE INTENT IS TO HAVE THE DEVICES THAT ARE AT DIFFERENT HEIGHTS ABOVE FINISHED FLOOR AND WITHIN 60" OF ONE ANOTHER HORIZONTALLY, BE INSTALLED TO ALIGN VERTICALLY (IE. RECEPTACLES AND LIGHT SWITCHES OR THERMOSTATS AND FIRE ALARM VISUAL DEVICES) AND THE DEVICES AT THE SAME HEIGHTS ABOVE THE FINISHED FLOOR BE INSTALLED SIDE-BY-SIDE (IE. RECEPTACLES AND COMMUNICATION DEVICES OR LIGHT SWITCHES AND THERMOSTATS). AFTER METAL STUD FRAMING, THE CONTRACTOR SHALL COORDINATE AND PHYSICALLY MARK THE LOCATION OF ALL DEVICES WITH SUB-CONTRACTORS.

3 CLEARANCES AND TYPICAL MOUNTING HEIGHTS

Scale: N.T.S.



2 SYMBOLS LEGEND

Scale: N.T.S.

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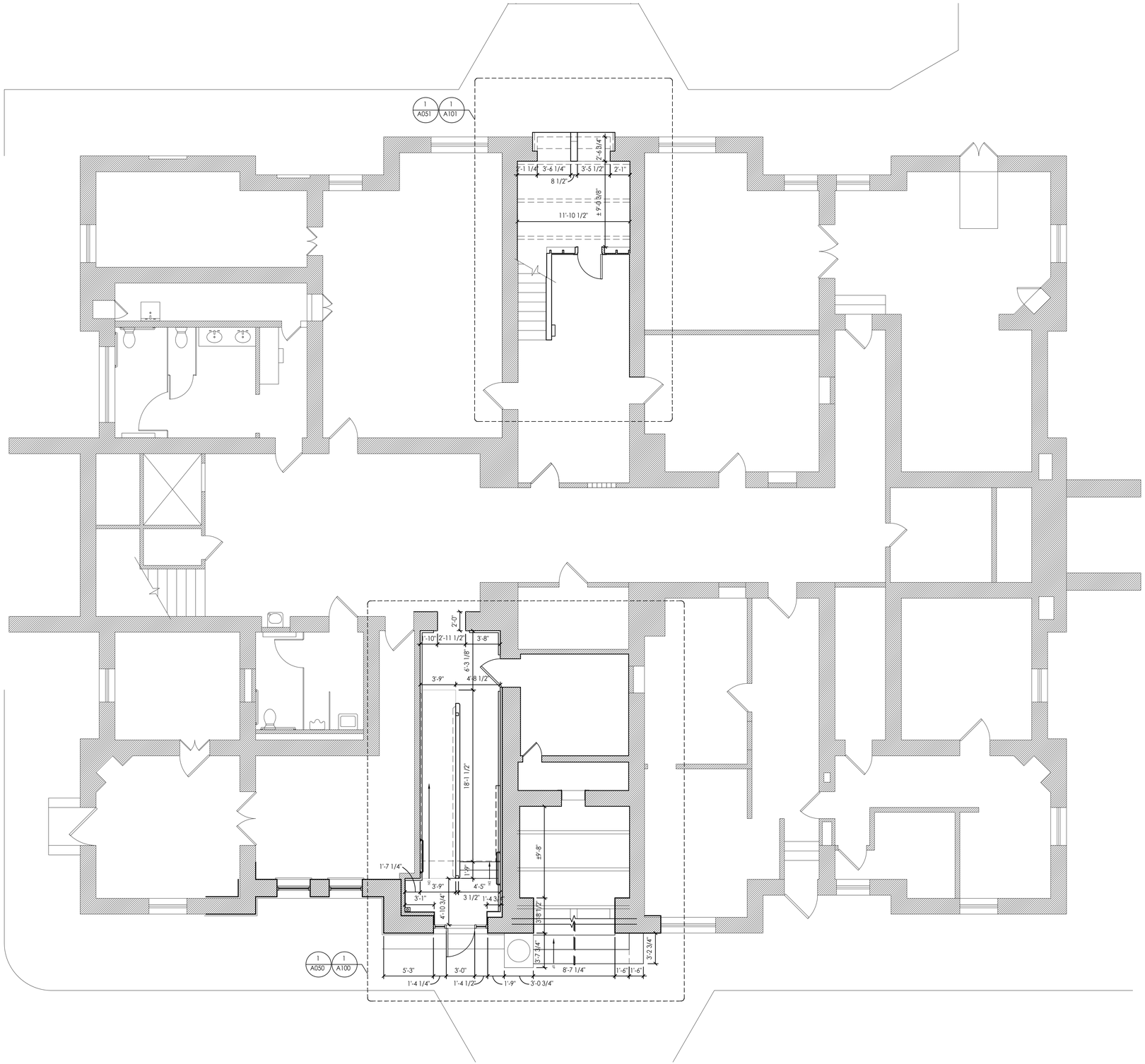
STATE OF MISSOURI
TRUDY R FAULKNER
NUMBER A-2010030288
ARCHITECT
03.14.2023

Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023
REVISION & DATE:

GENERAL INFORMATION
SHEET NUMBER:

A001



1 OVERALL VIEW, BASEMENT FLOOR PLAN - EAST ACCESSIBLE ENTRANCE - WEST BASEMENT - EXISTING CONDITIONS FOR INFORMATION ONLY

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

NORTH

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STATE OF MISSOURI
TRUDY R. FAULKNER
NUMBER A-2010030288
ARCHITECT
03.14.2023
Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023

REVISION & DATE:

OVERALL BASEMENT PLAN

SHEET NUMBER:

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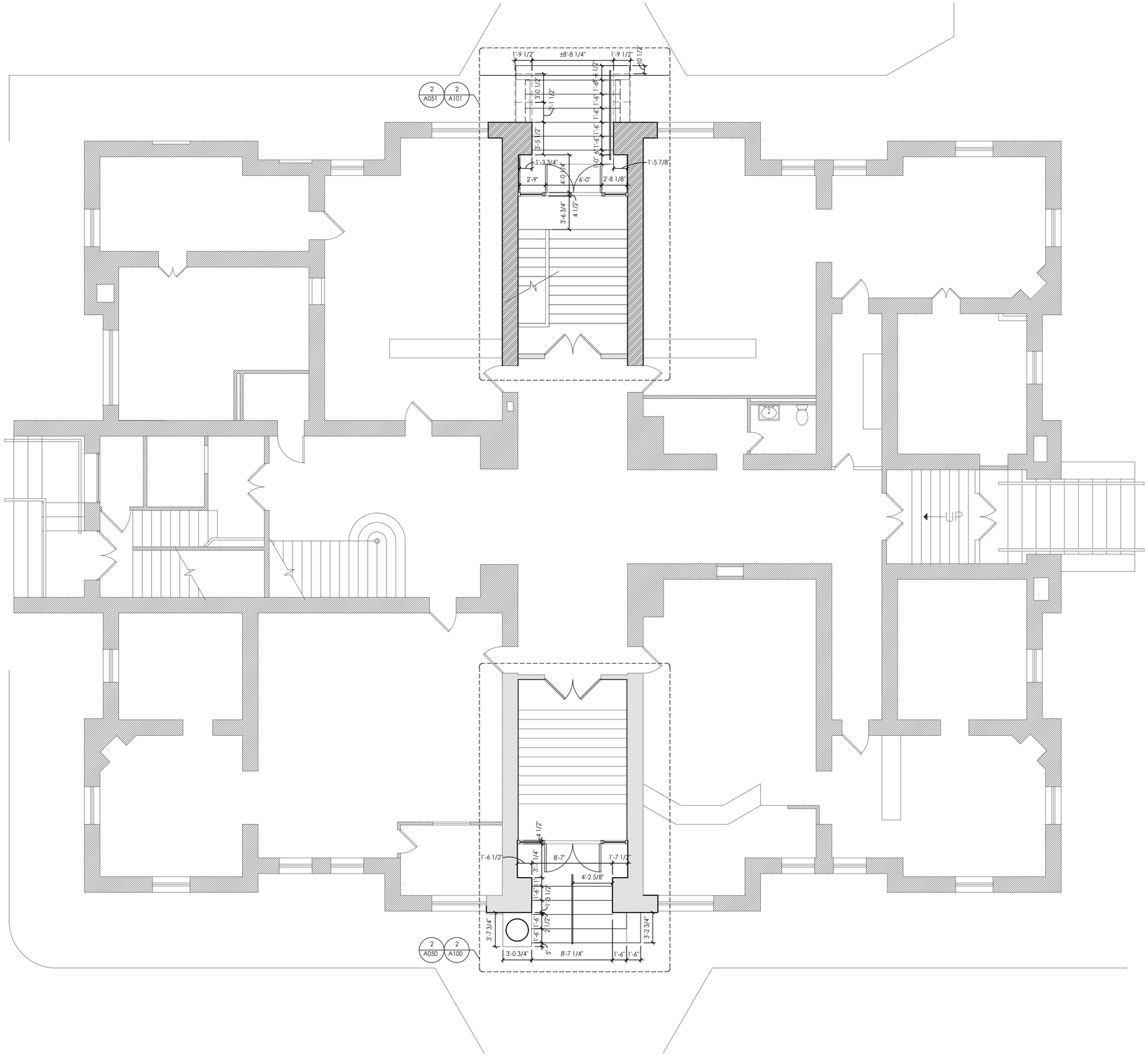

1 OVERALL VIEW, FIRST FLOOR PLAN - EAST PRIMARY ENTRANCE - WEST ENTRANCE - EXISTING CONDITIONS FOR INFORMATION ONLY

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

NORTH

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Trudy R. Faulkner - Architect
MO# A-2010030288

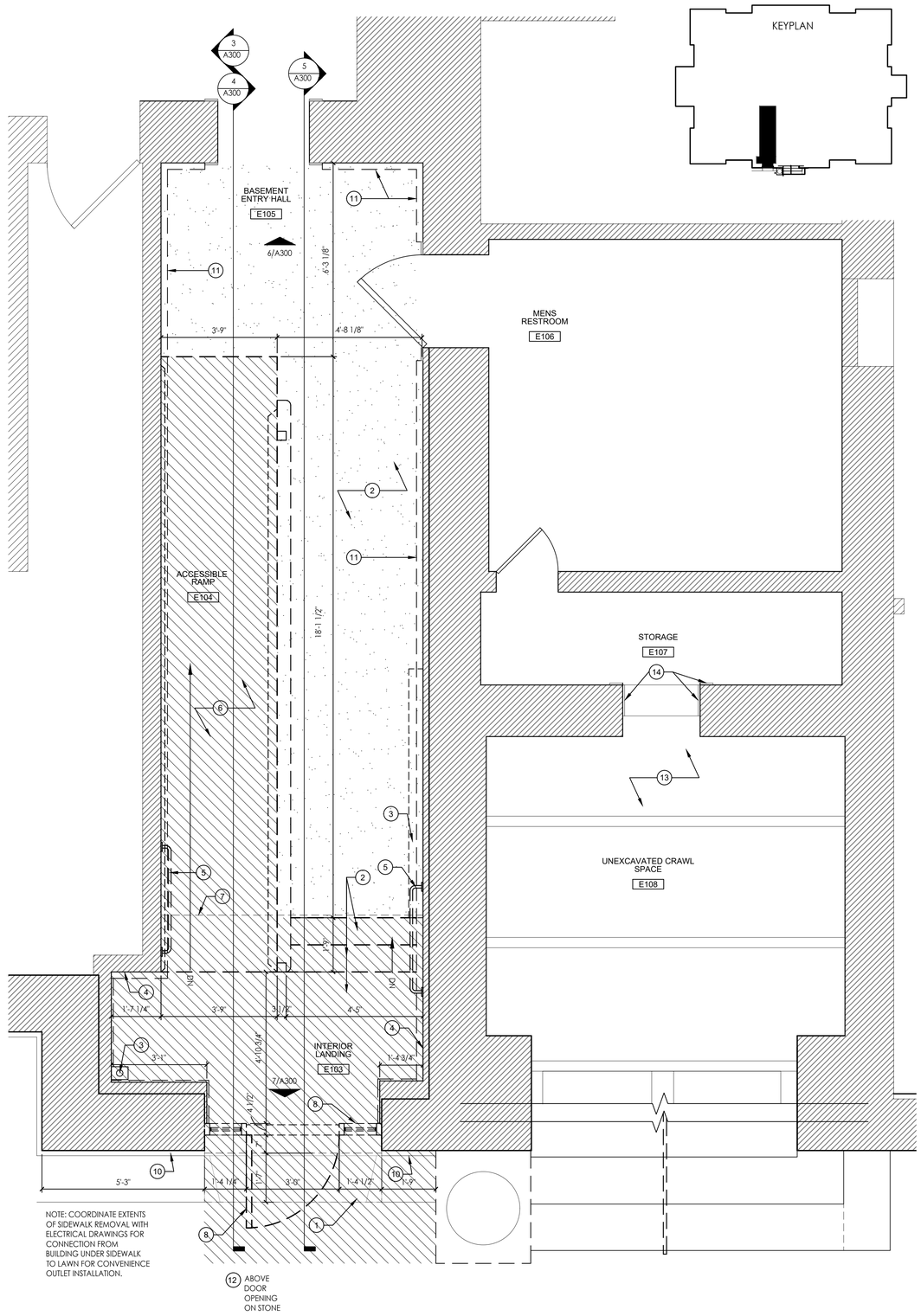
DATE: MARCH 14, 2023

REVISION & DATE:

OVERALL FIRST FLOOR PLAN

SHEET NUMBER:

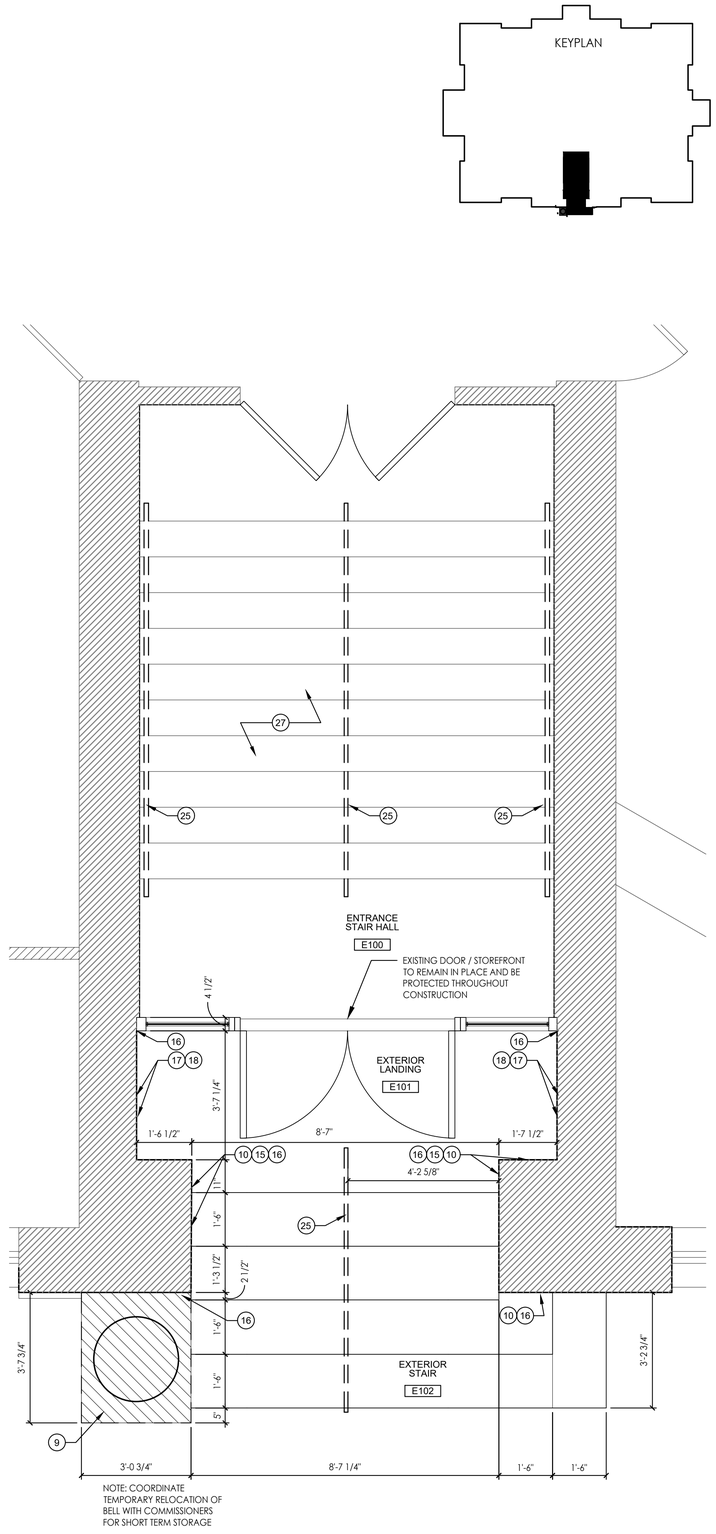
A021



1 BASEMENT ENLARGED DEMOLITION PLAN - EAST ACCESSIBLE ENTRANCE

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

NORTH



2 FIRST FLOOR ENLARGED DEMOLITION PLAN - EAST PRIMARY ENTRANCE

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

NORTH

GENERAL NOTES:

A. GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. DELIVER TO OWNER IN DIGITAL FORMAT.

B. PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE AT THE INTERIORS DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

C. THE TERM "REMOVE" SHALL INCLUDE THE PROPER DISPOSAL OF THE DEMOLISHED MATERIAL, CLEANING OF THE REMAINING CONDITION AND PREPARATION OF THE AREA FOR NEW MATERIALS.

D. ANY EXISTING/HISTORIC TRIM OR DETAILING IS TO BE REPAIRED IN PLACE OR REPLACED IN KIND, MATCHING DIMENSIONS, PROFILES & DETAILING.

E. ALL EXISTING AND NEW WOOD TRIM, HANDRAILS, FLOORING, CEILING TRIM, OR OTHER ELEMENTS SHALL BE PREPPED, PRIMED AND EITHER STAINED OR PAINTED. COLOR TO MATCH EXISTING FINISHES, UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.

F. PATCH AND REPAIR ALL ADJACENT SURFACES AND MATERIALS DISTURBED DUE TO THE NEW CONSTRUCTION FOR A SEAMLESS APPEARANCE AT CLOSE OF CONSTRUCTION.

G. ALL EXPOSED METAL/STEEL IS TO BE PAINTED WITH HIGH PERFORMANCE COATINGS.

DEMOLITION PLAN KEYED NOTES:

1. CAREFULLY SAW CUT AND REMOVE SECTION OF EXISTING PITCHED CONCRETE SIDEWALK AT THE EAST ACCESSIBLE ENTRANCE OF THE BUILDING INTO THE BASEMENT LEVEL AND A PORTION OF THE SIDE WALK ADJACENT TO THE BELL PLINTH TO PREP FOR INSTALLATION OF FUTURE UNDERGROUND ELECTRICAL CONDUITS / FEEDS FROM INTERIOR TO ACCOMMODATE NEW ACCESS CONTROL AND ACCESSIBILITY PUSH BUTTON PEDESTAL.
2. CAREFULLY DEMOLISH THE CONCRETE LANDING AND STAIRS THE FULL WIDTH OF THE HALL INSTALLED CIRCA 1964 AT THE INTERIOR OF THE EAST ACCESSIBLE ENTRANCE IN ITS ENTIRETY. REMOVE EXISTING CARPET AND ADHESIVES FROM THE ENTRANCE BACK TO THE WEST EXTENTS OF THE BASEMENT ENTRY HALL TO EXPOSE THE UNDERLYING SUB-FLOOR. PREP THE SUBFLOOR WITH SELF LEVELING EPOXY AS REQUIRED FOR NEW FLOORING INSTALLATION . COORDINATE WITH NEW CONCRETE LANDING AND RAMP.
3. ADJUST EXISTING MECHANICAL AND ELECTRICAL CONDUIT AS REQUIRED WITH DEMOLITION OF ENTRANCE LANDING.
4. REMOVE EXISTING WOOD BASE TRIM AT LANDING AND TO WESTERN EXTENTS OF BASEMENT ENTRY HALL PRIOR TO DEMOLITION OF CONCRETE LANDING/STAIRS, WOOD RAMP, AND CARPETING.
5. REMOVE EXISTING PIPE HANDRAILS
6. REMOVE NON-ORIGINAL WOOD RAMP, ASSOCIATED BASE TRIM, AND HANDRAIL/SUPPORT POSTS IN THEIR ENTIRETY.
7. LINE OF EXISTING CEILING SOFFIT TRANSITION OVERHEAD. EXISTING CEILING, TILE, GRID, AND SOFFIT ALONG WITH TWO (2) 2 X 4 LIGHT FIXTURES ARE TO BE REMOVED BACK TO THE WEST EXTENTS OF THE SPACE. PREP FOR NEW TILE AND GRID INSTALLATION. SALVAGE LIGHTING FOR REUSE / REINSTALLATION. RE: A150 FOR REFLECTED CEILING PLAN.
8. REMOVE EXISTING ALUMINUM STOREFRONT, DOOR AND ASSOCIATED FRAME AND HARDWARE IN ITS ENTIRETY TO PREPARE FOR INSTALLATION OF NEW DOOR AND FRAMING SYSTEM. THE ENTRANCE ENCLOSURE IS TO BE MODIFIED TO LOWER THE SILL OF THE DOOR TO ALIGN WITH THE SIDEWALK TRANSITION AT THE EXTERIOR - APPROXIMATELY 4" CHANGE IN HEIGHT.
9. TEMPORARILY LIFT, SALVAGE AND RELOCATE THE EXISTING BRONZE CLOCK TOWER BELL. STORE IN A SECURED LOCATION UNTIL REINSTALLATION CAN OCCUR. CAREFULLY REMOVE EXISTING CONCRETE PLINTH BASE, BEING CAUTIOUS TO NOT DAMAGE THE UNDERLYING HISTORIC STONE TREADS. RE: STRUCTURAL DRAWINGS. THE NON-ORIGINAL CONCRETE IS TO BE REMOVED IN ITS ENTIRETY. PROTECT EXISTING SURROUNDING HISTORIC MASONRY FROM DAMAGE.
10. AREA OF STONE SURFACE SPALL AT BASE OF WALL. CAREFULLY REMOVE ALL LOOSE AND DETERIORATED STONE SURFACE MATERIALS FROM STONE AND ADJACENT SURROUNDING SITE.
11. REMOVE EXISTING WOOD WAINSCOT AND SALVAGE FOR OWNER. PREPARE WALL TO RECEIVE NEW SKIM COAT AND PAINTED FINISH.
12. REMOVE EXISTING EXTERIOR SIGNAGE NOTING "TO ELEVATOR" AND PATCH FASTENER HOLES WITH MORTAR PATCHING COMPOUND.
13. REMOVE EXCESS BUILDING CONSTRUCTION RUBBLE TO ALLOW ACCESS TO THE EASTERN SIDE OF THE CRAWL SPACE TO FULLY OBSERVE THE EXISTING CONDITIONS OF THE OVERHEAD STEEL SUPPORTS. FULL CONDITIONS CANNOT BE ASSESSED, BUT THE PRESENCE OF CORROSION IS EVIDENT. CONDUCT TERMITE INSPECTION AT UNDERSIDE OF STAIR.
14. REMOVE AND REPLACE IN-KIND THE WOOD TRIM AT THE CRAWL SPACE ACCESS OPENING WHERE TERMITE DAMAGE IS PRESENT. REVIEW INSTALLATION OF TERMITE TREATMENT SYSTEMS WITH OWNER AND PROVIDE COST OPTIONS.
15. REMOVE AREA OF FAILING OR INCOMPATIBLE PATCHING AT STONE MASONRY AT BASE OF WALL IN ITS ENTIRETY. REMOVE AREAS OF DETERIORATED STONE MATERIALS BEHIND PATCHING AND PREPARE FOR NEW FINISH.
16. REMOVE EXISTING FAILED SEALANTS WHERE OPEN JOINTS ARE PRESENT AND AT FULL ALUMINUM STOREFRONT PERIMETER.
17. SOUND PLASTER TO DETERMINE EXTENTS OF DELAMINATED OR DETERIORATED SURFACE MATERIAL AT WALLS AND OVERHEAD SOFFIT. ASSUME 20% OF MATERIAL IS TO BE REMOVED AND REPLACED. AT EXISTING CRACKING WHERE PLASTER IS FULLY ADHERED, WIDEN JOINT AND PREPARE PLASTER AREA FOR REPAIRS.
18. REMOVE AREAS OF LOOSE, DELAMINATED PAINT FROM PLASTER AND WOOD BASE. REMOVE SEALANT AT TOP OF WOOD BASE, AND PREP FOR REFINISHING.
19. REMOVE EXISTING NON-CODE COMPLIANT EXTERNAL CONNECTION FOR ELECTRICAL PANEL AND PREP FOR REWIRING TO TIE IN SECURITY AND ACCESS CONTROL SYSTEMS.
20. REMOVE DETERIORATED MORTAR FROM STONE JOINTS AT ARCH OVERHEAD.
21. INSTALL TEMPORARY SHORING IN CRAWL SPACE BELOW WEST STAIR ENTRANCE TO PREPARE FOR DEMOLITION SCOPE ABOVE. RE: STRUCTURAL FOR SCOPE. INSTALL WEATHER TIGHT BARRIER / TEMPORARY WALL CONSTRUCTION FULL HEIGHT AT INTERIOR OF STOREFRONT TO SECURE WEST OPENING PRIOR TO REMOVAL OF STOREFRONT. CAREFULLY DISCONNECT ELECTRICAL FEED TO SECURITY ACCESS AND CONTROLS. DISASSEMBLE STOREFRONT ALUMINUM FRAME AND GLAZING AND STORE FOR REINSTALLATION.
22. CAREFULLY SAW CUT EXISTING CONCRETE AT EXTERIOR UPPER LANDING, AT DETERIORATED AND FAILING STONE TREADS (QTY OF 6 AT BOTH SIDES WHERE EMBEDDED IN THE STONE SIDE WALLS), AND AT LOWER STAIR TREAD TO SEPARATE MATERIALS TO BE DEMOLISHED FROM SURROUNDING MATERIALS TO REMAIN. REMOVE CONCRETE LANDING, STEP, AND STONE STEPS IN THEIR ENTIRETY. STONE SIDEWALLS ARE TO BE RETAINED IN THEIR ORIGINAL POSITION. PROTECT THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
23. REFER TO STRUCTURAL DRAWINGS FOR STABILIZATION AND REPAIRS OF STRUCTURAL STEEL SUPPORTS BELOW THE WEST STAIR.
24. RE MOVE DETERIORATED MORTAR FROM SUPPORTING MASONRY.
25. REMOVE EXISTING HANDRAILS AND PATCH FASTENER OPENINGS IN PLASTER /WOOD AT INTERIORS AND EXTERIOR STONE MATERIALS AS REQUIRED.
26. CAREFULLY REMOVE AND SALVAGE INTERIOR HISTORIC TILE PRIOR TO CONSTRUCTION OF TEMPORARY WALL AND PROVIDE TO OWNER FOR REUSE AT THE EAST ENTRANCE.
27. INVESTIGATE UNSTABLE WOOD TREADS OF STAIR. CAREFULLY REMOVE TREAD FROM TOP AND INSPECT UNDERLYING WOOD FRAMING IN THREE LOCATIONS

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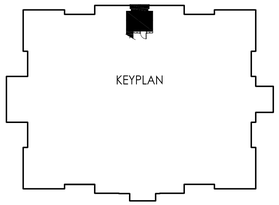
STATE OF MISSOURI
TRUDY R. FAULKNER
NUMBER A-2010030288
ARCHITECT
03.14.2023

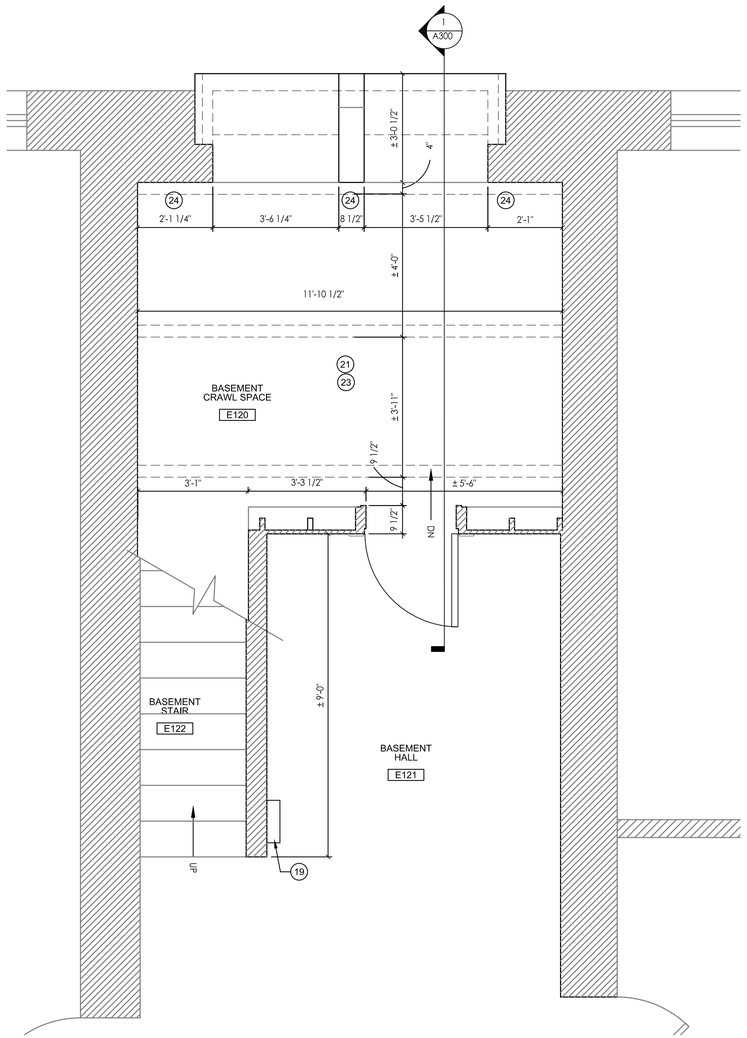
Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023
REVISION & DATE:

DEMOLITION PLANS
SHEET NUMBER:

A050

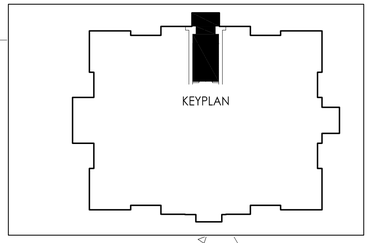




1 EXISTING CONDITIONS - BASEMENT ENLARGED PLAN - WEST ENTRANCE

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

NORTH



2 EXISTING CONDITIONS - ENLARGED FIRST FLOOR PLAN - WEST ENTRANCE

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

NORTH

GENERAL NOTES:

A. GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. DELIVER TO OWNER IN DIGITAL FORMAT.
B. PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE AT THE INTERIORS DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
C. THE TERM "REMOVE" SHALL INCLUDE THE PROPER DISPOSAL OF THE DEMOLISHED MATERIAL, CLEANING OF THE REMAINING CONDITION AND PREPARATION OF THE AREA FOR NEW MATERIALS.
D. ANY EXISTING/HISTORIC TRIM OR DETAILING IS TO BE REPAIRED IN PLACE OR REPLACED IN KIND, MATCHING DIMENSIONS, PROFILES & DETAILING.
E. ALL EXISTING AND NEW WOOD TRIM, HANDRAILS, FLOORING, CEILING TRIM, OR OTHER ELEMENTS SHALL BE PREPPED, PRIMED AND EITHER STAINED OR PAINTED. COLOR TO MATCH EXISTING FINISHES, UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.
F. PATCH AND REPAIR ALL ADJACENT SURFACES AND MATERIALS DISTURBED DUE TO THE NEW CONSTRUCTION FOR A SEAMLESS APPEARANCE AT CLOSE OF CONSTRUCTION.
G. ALL EXPOSED METAL/STEEL IS TO BE PAINTED WITH HIGH PERFORMANCE COATINGS.

DEMOLITION PLAN KEYED NOTES:

1. CAREFULLY SAW CUT AND REMOVE SECTION OF EXISTING PITCHED CONCRETE SIDEWALK AT THE EAST ACCESSIBLE ENTRANCE OF THE BUILDING INTO THE BASEMENT LEVEL AND A PORTION OF THE SIDE WALK ADJACENT TO THE BELL PLINTH TO PREP FOR INSTALLATION OF FUTURE UNDERGROUND ELECTRICAL CONDUITS / FEEDS FROM INTERIOR TO ACCOMMODATE NEW ACCESS CONTROL AND ACCESSIBILITY PUSH BUTTON PEDESTAL.
2. CAREFULLY DEMOLISH THE CONCRETE LANDING AND STAIRS THE FULL WIDTH OF THE HALL INSTALLED CIRCA 1964 AT THE INTERIOR OF THE EAST ACCESSIBLE ENTRANCE IN ITS ENTIRETY. REMOVE EXISTING CARPET AND ADHESIVES FROM THE ENTRANCE BACK TO THE WEST EXTENTS OF THE BASEMENT ENTRY HALL TO EXPOSE THE UNDERLYING SUB-FLOOR. PREP THE SUBFLOOR WITH SELF LEVELING EPOXY AS REQUIRED FOR NEW FLOORING INSTALLATION . COORDINATE WITH NEW CONCRETE LANDING AND RAMP.
3. ADJUST EXISTING MECHANICAL AND ELECTRICAL CONDUIT AS REQUIRED WITH DEMOLITION OF ENTRANCE LANDING.
4. REMOVE EXISTING WOOD BASE TRIM AT LANDING AND TO WESTERN EXTENTS OF BASEMENT ENTRY HALL PRIOR TO DEMOLITION OF CONCRETE LANDING/STAIRS, WOOD RAMP, AND CARPETING.
5. REMOVE EXISTING PIPE HANDRAILS
6. REMOVE NON-ORIGINAL WOOD RAMP, ASSOCIATED BASE TRIM, AND HANDRAIL/SUPPORT POSTS IN THEIR ENTIRETY.
7. LINE OF EXISTING CEILING SOFFIT TRANSITION OVERHEAD. EXISTING CEILING, TILE, GRID, AND SOFFIT ALONG WITH TWO (2) 2 X 4 LIGHT FIXTURES ARE TO BE REMOVED BACK TO THE WEST EXTENTS OF THE SPACE. PREP FOR NEW TILE AND GRID INSTALLATION. SALVAGE LIGHTING FOR REUSE / REINSTALLATION. RE: A150 FOR REFLECTED CEILING PLAN.
8. REMOVE EXISTING ALUMINUM STOREFRONT, DOOR AND ASSOCIATED FRAME AND HARDWARE IN ITS ENTIRETY TO PREPARE FOR INSTALLATION OF NEW DOOR AND FRAMING SYSTEM. THE ENTRANCE ENCLOSURE IS TO BE MODIFIED TO LOWER THE SILL OF THE DOOR TO ALIGN WITH THE SIDEWALK TRANSITION AT THE EXTERIOR - APPROXIMATELY 4" CHANGE IN HEIGHT.
9. TEMPORARILY LIFT, SALVAGE AND RELOCATE THE EXISTING BRONZE CLOCK TOWER BELL. STORE IN A SECURED LOCATION UNTIL REINSTALLATION CAN OCCUR. CAREFULLY REMOVE EXISTING CONCRETE PLINTH BASE, BEING CAUTIOUS TO NOT DAMAGE THE UNDERLYING HISTORIC STONE TREADS. RE: STRUCTURAL DRAWINGS. THE NON-ORIGINAL CONCRETE IS TO BE REMOVED IN ITS ENTIRETY. PROTECT EXISTING SURROUNDING HISTORIC MASONRY FROM DAMAGE.
10. AREA OF STONE SURFACE SPALL AT BASE OF WALL. CAREFULLY REMOVE ALL LOOSE AND DETERIORATED STONE SURFACE MATERIALS FROM STONE AND ADJACENT SURROUNDING SITE.
11. REMOVE EXISTING WOOD WAINSCOT AND SALVAGE FOR OWNER. PREPARE WALL TO RECEIVE NEW SKIM COAT AND PAINTED FINISH.
12. REMOVE EXISTING EXTERIOR SIGNAGE NOTING "TO ELEVATOR" AND PATCH FASTENER HOLES WITH MORTAR PATCHING COMPOUND.
13. REMOVE EXCESS BUILDING CONSTRUCTION RUBBLE TO ALLOW ACCESS TO THE EASTERN SIDE OF THE CRAWL SPACE TO FULLY OBSERVE THE EXISTING CONDITIONS OF THE OVERHEAD STEEL SUPPORTS. FULL CONDITIONS CANNOT BE ASSESSED, BUT THE PRESENCE OF CORROSION IS EVIDENT. CONDUCT TERMITE INSPECTION AT UNDERSIDE OF STAIR.
14. REMOVE AND REPLACE IN-KIND THE WOOD TRIM AT THE CRAWL SPACE ACCESS OPENING WHERE TERMITE DAMAGE IS PRESENT. REVIEW INSTALLATION OF TERMITE TREATMENT SYSTEMS WITH OWNER AND PROVIDE COST OPTIONS.
15. REMOVE AREA OF FAILING OR INCOMPATIBLE PATCHING AT STONE MASONRY AT BASE OF WALL IN IT'S ENTIRETY. REMOVE AREAS OF DETERIORATED STONE MATERIALS BEHIND PATCHING AND PREPARE FOR NEW FINISH.
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17. SOUND PLASTER TO DETERMINE EXTENTS OF DELAMINATED OR DETERIORATED SURFACE MATERIAL AT WALLS AND OVERHEAD SOFFIT. ASSUME 20% OF MATERIAL IS TO BE REMOVED AND REPLACED. AT EXISTING CRACKING WHERE PLASTER IS FULLY ADHERED, WIDEN JOINT AND PREPARE PLASTER AREA FOR REPAIRS.
18. REMOVE AREAS OF LOOSE, DELAMINATED PAINT FROM PLASTER AND WOOD BASE. REMOVE SEALANT AT TOP OF WOOD BASE, AND PREP FOR REFINISHING.
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20. REMOVE DETERIORATED MORTAR FROM STONE JOINTS AT ARCH OVERHEAD.
21. INSTALL TEMPORARY SHORING IN CRAWL SPACE BELOW WEST STAIR ENTRANCE TO PREPARE FOR DEMOLITION SCOPE ABOVE. RE: STRUCTURAL FOR SCOPE. INSTALL WEATHER TIGHT BARRIER / TEMPORARY WALL CONSTRUCTION FULL HEIGHT AT INTERIOR OF STOREFRONT TO SECURE WEST OPENING PRIOR TO REMOVAL OF STOREFRONT. CAREFULLY DISCONNECT ELECTRICAL FEED TO SECURITY ACCESS AND CONTROLS. DISASSEMBLE STOREFRONT ALUMINUM FRAME AND GLAZING AND STORE FOR REINSTALLATION.
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STATE OF MISSOURI
TRUDY R. FAULKNER
NUMBER A-2010030288
ARCHITECT
03.14.2023
Trudy R. Faulkner - Architect
MO# A-2010030288

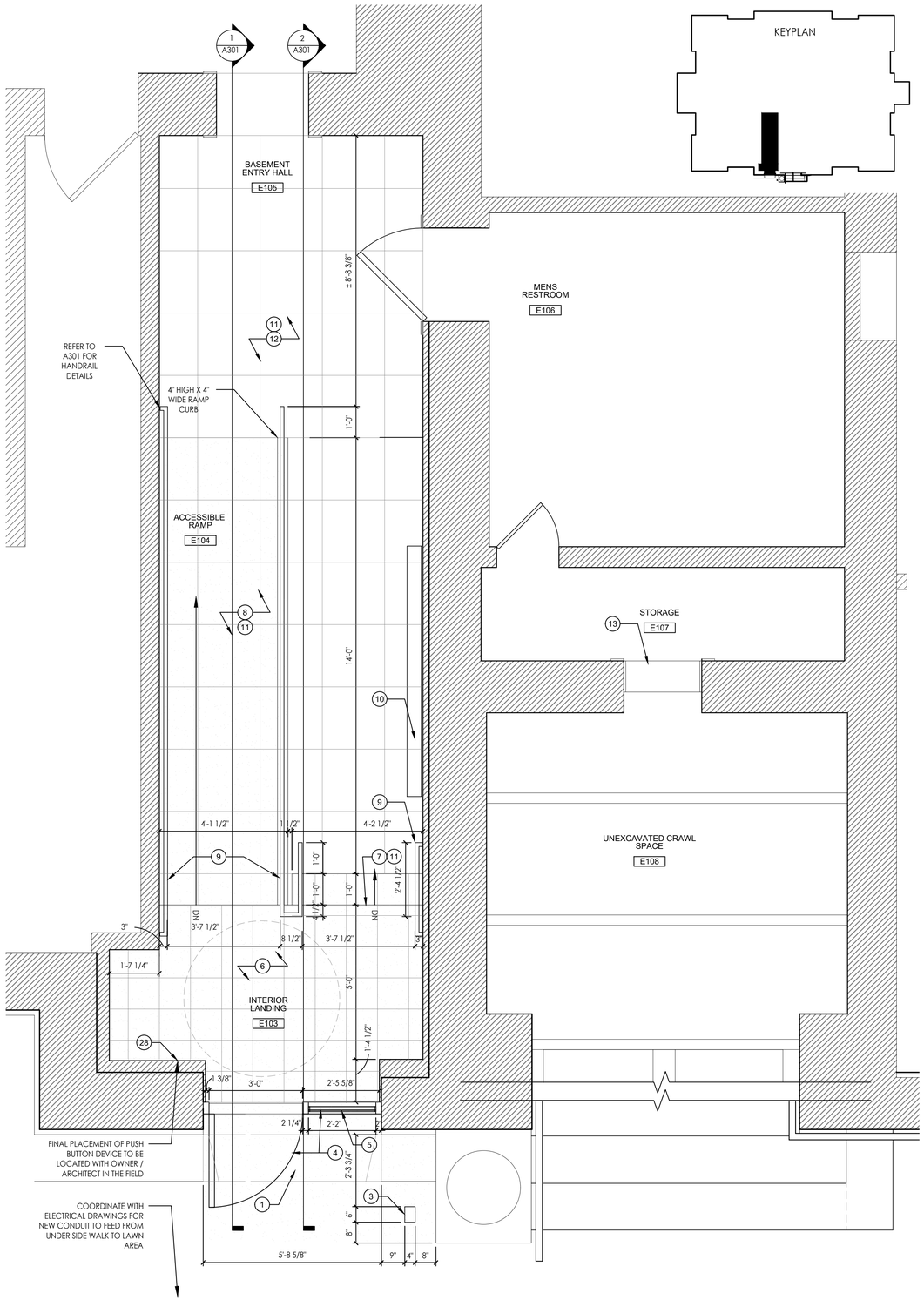
DATE: MARCH 14, 2023

REVISION & DATE:

DEMOLITION PLANS

SHEET NUMBER:

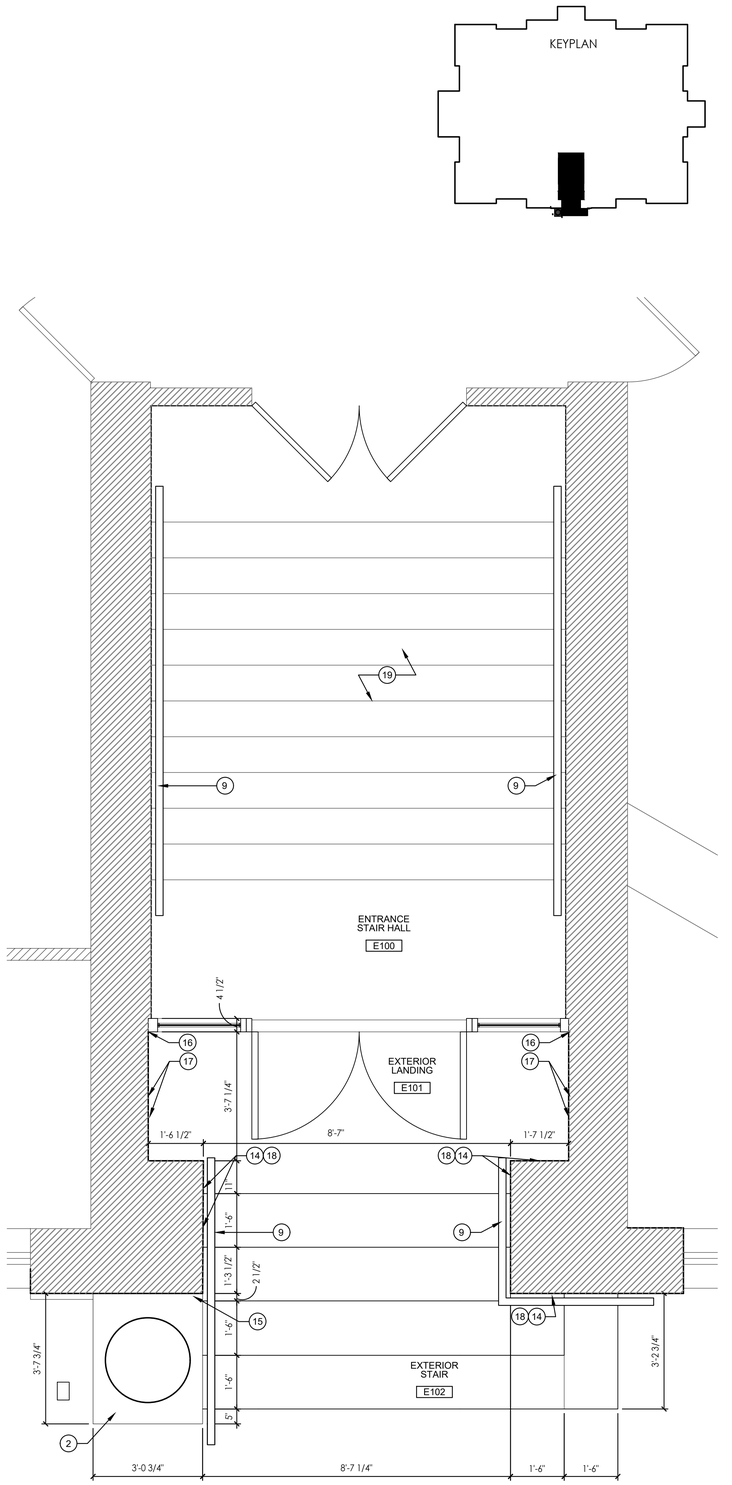
A051



1 BASEMENT ENLARGED PLAN - EAST ACCESSIBLE ENTRANCE

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

NORTH



2 FIRST FLOOR ENLARGED PLAN - EAST PRIMARY ENTRANCE

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

NORTH

GENERAL NOTES:

A. GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
B. PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE AT THE INTERIORS DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
C. THE TERM "REMOVE" SHALL INCLUDE THE PROPER DISPOSAL OF THE DEMOLISHED MATERIAL, CLEANING OF THE REMAINING CONDITION AND PREPARATION OF THE AREA FOR NEW MATERIALS.
D. ANY EXISTING/HISTORIC TRIM OR DETAILING IS TO BE REPAIRED IN PLACE OR REPLACED IN KIND, MATCHING DIMENSIONS, PROFILES & DETAILING.
E. ALL EXISTING AND NEW WOOD TRIM, HANDRAILS, FLOORING, CEILING TRIM, OR OTHER ELEMENTS SHALL BE PREPPED, PRIMED AND EITHER STAINED OR PAINTED. COLOR TO MATCH EXISTING FINISHES, UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.
F. PATCH AND REPAIR ALL ADJACENT SURFACES AND MATERIALS DISTURBED DUE TO THE NEW CONSTRUCTION FOR A SEAMLESS APPEARANCE AT CLOSE OF CONSTRUCTION.
G. ALL EXPOSED METAL/STEEL IS TO BE PAINTED W/ HIGH PERFORMANCE COATING.

FLOOR PLAN KEYED NOTES:

1. INSTALL NEW CONCRETE SIDEWALK AT ENTRANCE. CREATE SLIGHT SWALES AD EDGES TO ASSIST WITH SIDEWALK TRANSITION AND WATER DRAINAGE. PITCH SIDEWALK ¼" PER 1'-0" AWAY FROM BUILDING FOR DRAINAGE. CONCRETE IS TO HAVE LIGHT BROOM FINISH.
2. INSTALL NEW CONCRETE PLINTH FOR BASE BELOW CLOCK TOWER BELL. PLINTH CONCRETE IS TO BE COLORED TO MATCH THE ADJACENT STONE WALLS AND HAVE A WEATHERED STONE TEXTURED FACE IN KEEPING WITH THE STONE TO BLEND WITH THE HISTORIC MATERIALS. REINSTALL BRONZE BELL ONCE CONCRETE HAS CURED.
3. CORE CONCRETE BELOW GRADE TO INSTALL NEW CONDUIT FOR ELECTRICAL FEEDS FOR ACCESS CONTROL AND ACCESSIBILITY ASSIST SYSTEMS. CONDUIT IS TO BE WATER-TIGHT AND FED UP INTO BASE OF PEDESTAL. PEDESTAL IS TO BE WATER TIGHT FORMED METAL WITH DARK BRONZE FINISH.
4. INSTALL NEW ALUMINUM STOREFRONT WITH INSULATED GLAZING, DOOR, NEW ELECTRONIC HARDWARE, AND THRESHOLD. FINISH IS TO BE ANODIZED ALUMINUM IN DARK BRONZE FINISH. INSTALL NEW PERIMETER SEALANT AT ALUMINUM FRAME. SEALANT TO MATCH STONE COLOR.
5. INSTALL NEW VINYL APPLIED SIGNAGE AT SIDELITE GLAZING TO INDICATED ACCESSIBLE ENTRANCE / PASSAGE TO ELEVATOR.
6. INSTALL NEW CONCRETE AT LANDING, COLOR / TEXTURE TO MATCH HISTORIC STONE.
7. INSTALL NEW CONCRETE STEP INTEGRATED WITH LANDING. ALTERNATE: INSTALL WOOD STEP WITH RIGID INSULATION BELOW TO DEADEN FOOTFALL SOUND. RUBBER NOSING AND RISER WITH CARPET ON TREAD.
8. INSTALL NEW CONCRETE ACCESSIBLE RAMP AT 1" TO 1'-0" SLOPE. AT WEST END, EMBED CONCRETE INTO EXISTING SLAB MINIMUM 2 INCHES. ALTERNATE: INSTALL WOOD ACCESSIBLE RAMP.
9. INSTALL NEW POWDER-COATED, PAINTED METAL HANDRAILS. RAILS ARE TO BE GALVANIZED AT EXTERIOR PRIOR TO FINAL PAINT.
10. REINSTALL MECHANICAL FLOOR BASE HEATER.
11. INSTALL NEW CARPET TILE (24 X 24") AT STAIR / RAMP AND THROUGHOUT BASEMENT ENTRANCE HALL. PREPARE EXISTING SURFACE WITH SELF LEVELING EPOXY TREATMENT PRIOR TO CARPET TILE INSTALLATION. AT ENTRANCE LANDING, UTILIZE HIGH TRAFFIC WALK-OFF CARPET TILE FOR SLIP RESISTANCE TO ADDRESS POTENTIAL FOR WATER. INCORPORATE ALLOWANCE FOR $42 PER SQUARE YARD (MATERIAL AND LABOR).
12. REPAIR EXISTING PLASTER WALLS WITH NEW SKIM COAT TO SMOOTH SURFACE WHERE WOOD WAINSCOT WAS REMOVED. PAINT ALL WALLS FOR CONSISTENT FINISH. SATIN SHEEN PAINT FINISH. WHERE NEW ELECTRICAL CONDUIT IS REQUIRED, CHANNEL PLASTER WALLS TO CONCEAL CONDUIT.
13. INSTALL NEW TRIM AND FRAME AT OPENING TO CRAWL SPACE WHERE TERMITE DAMAGE OCCURRED. PRIME AND PAINT WOOD TRIM.
14. REDRESS / RESURFACE UNEVEN AREA OF STONE MASONRY WHERE SPALLING MATERIALS WERE REMOVED. REPOINT DETERIROATED MASONRY MORTAR JOINTS.
15. INSTALL NEW SEALANT AT HORIZONTAL / SKYWARD FACING MORTAR JOINTS.
16. INSTALL NEW PERIMETER SEALANT AT ALUMINUM STOREFRONT FRAME.
17. REPLACE AREAS OF PLASTER THAT HAVE DELAMINATED AND ARE UNSOUND. WIDEN JOINT AT CRACKING AND INSTALL NEW PLASTER TREATMENT / REPAIRS. SKIM COAT AS REQUIRED FOR SEAMLESS APPEARANCE WITH ADJACENT SURFACES. SKIM COAT IS TO INTEGRATE TEXTURE TO COORDINATE WITH THE EXISTING FINISH. PREP, PRIME, AND REPAINT.
18. INSTALL MORTAR PATCHING COMPOUND AT AREAS OF STONE DETERIORATION AT BASE OF WALL WHERE DEPTH OF DETERIORATION IS ½" OR GREATER.
19. REINSTALL EXISTING WOOD TREADS AFTER INSPECTION AND REPAIR FOR SEAMLESS APPEARANCE. PATCH WHERE HANDRAIL WAS REMOVED.
20. REVISE EXISTING CEILING TO SHIFT THE HEIGHT TRANSITION 8'-0" TO THE WEST OF IT'S PREVIOUS LOCATION. THIS AFFECTS TWO LIGHT FIXTURES THAT ARE TO BE REINSTALLED AT THE REVISED HEIGHT. INSTALL NEW ACOUSTICAL CEILING TILE AND GRID THROUGHOUT THE BASEMENT ENTRY HALL. HEIGHT TRANSITION IS APPROXIMATELY 1'-0".
21. INSTALL NEW SHORING BELOW THE STAIRS. REFERENCE THE STRUCTURAL DRAWINGS FOR DETAILING OF NEW CONCRETE STAIR BASE AND DETAILING. NEW STAIRS ARE TO BE INSTALLED WITH A CONCRETE VENEER OVER THE NEW CONCRETE SUB-STRUCTURE. MOCK-UPS ARE TO BE COMPLETED TO PROVIDE A CONCRETE TREAD THAT MATCHES THE ORIGINAL STONE IN COLOR AND TEXTURE. INSTALL ICE MELT MATS BELOW THE STONE VENEER. ALTERNATE: INSTALL STONE TREAD OVER CONCRETE SUB-STRUCTURE BASE AT THE STAIR IN LIEU OF CONCRETE.
22. INSTALL NEW ELECTRICAL WIRING AND HARDWIRE ELECTRICAL PANEL AT WEST ENTRANCE BASEMENT LOCATION TO FEED DOOR ACCESS CONTROL SYSTEM AND SECURITY ALARM.
23. REPOINT EXISTING MASONRY MORTAR JOINTS - 100% OF ALL ELEVATIONS OF PILASTER SUPPORTS AT WEST END OF CRAWL SPACE.
24. REMOVE TEMPORARY WEATHER ENCLOSURE AND REINSTALL ALUMINUM STOREFRONT AND DOOR.
25. INSTALL NEW ⅜" THICK CERAMIC TILE IN KEEPING WITH THE ORIGINAL HISTORIC FLOOR TILE WITH THROUGH BODY COLOR AND COLOR/SIZE/SHAPE MATCH.
26. INSTALL EPOXY INJECTION TO STABILIZE EXISTING STONE SIDEWALLS . REPOINT EXISTING MORTAR JOINTS 100% AT SIDEWALLS. INSTALL SEALANT AT ALL JOINTS BETWEEN BUILDING AND SIDEWALL.
27. INSTALL NEW MORTAR AT KEYSTONE AND ADJACENT STONES AT ARCHWAY ABOVE THE STAIRWAY.
28. INSTALL NEW ACCESSIBLE ASSIST BUTTON AT INTERIOR WALL SOUTH OF DOOR OPENING CENTERED BELOW EXIT SIGNAGE.

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ENLARGED FLOOR PLANS
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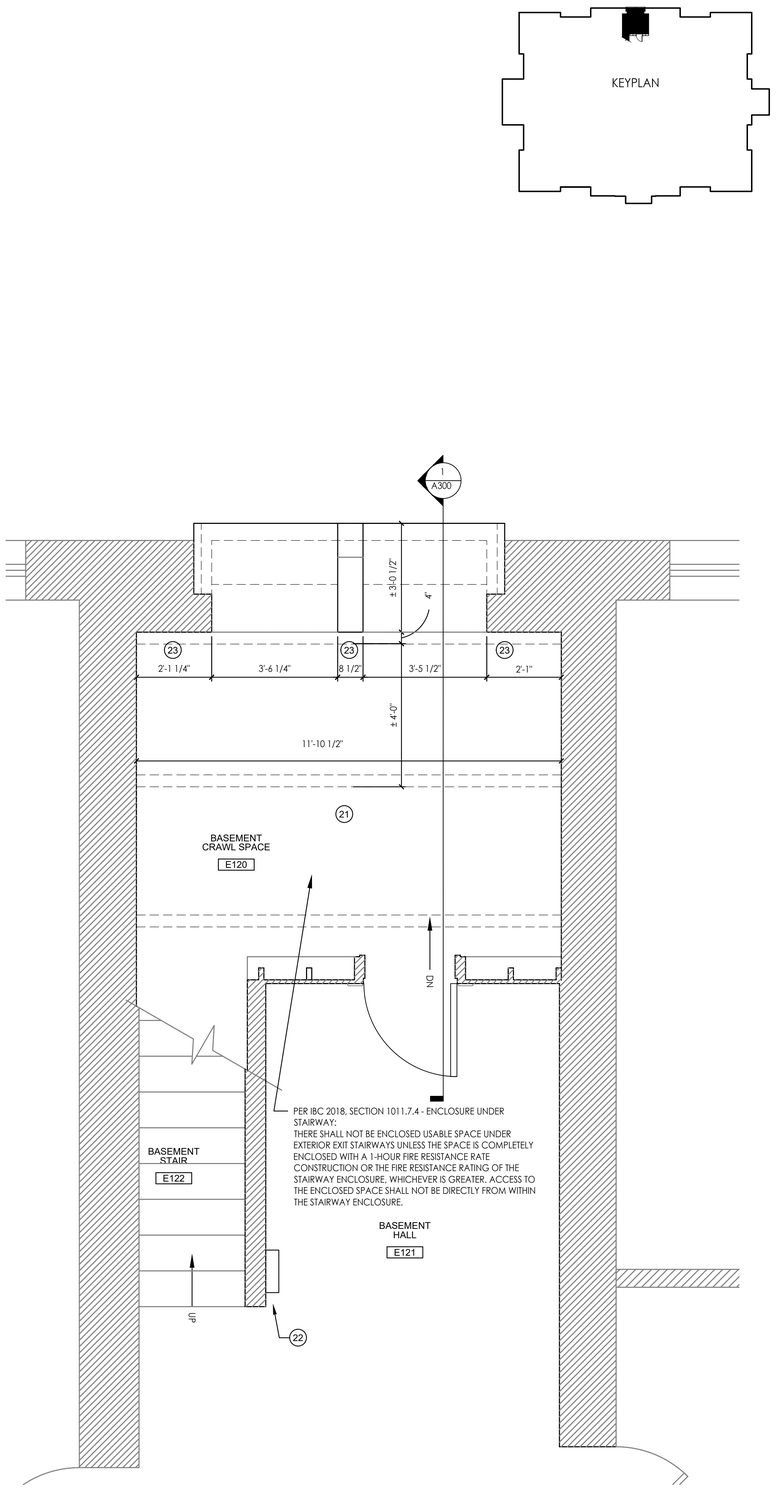
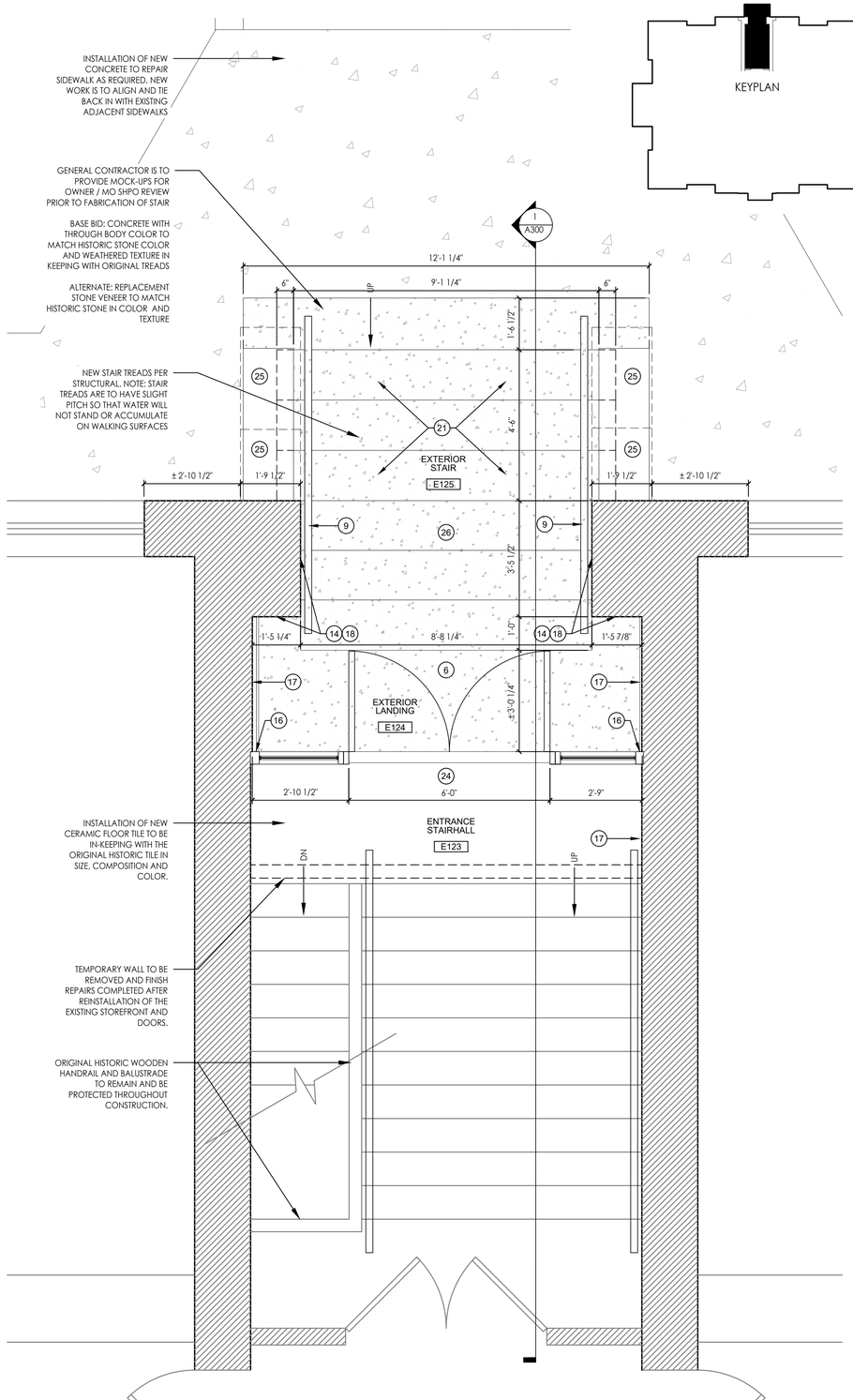
A100



1 BASEMENT ENLARGED PLAN - WEST ENTRANCE

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



2 ENLARGED FIRST FLOOR PLAN - WEST ENTRANCE

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

GENERAL NOTES:

A. GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
B. PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE AT THE INTERIORS DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
C. THE TERM "REMOVE" SHALL INCLUDE THE PROPER DISPOSAL OF THE DEMOLISHED MATERIAL, CLEANING OF THE REMAINING CONDITION AND PREPARATION OF THE AREA FOR NEW MATERIALS.
D. ANY EXISTING/HISTORIC TRIM OR DETAILING IS TO BE REPAIRED IN PLACE OR REPLACED IN KIND, MATCHING DIMENSIONS, PROFILES & DETAILING.
E. ALL EXISTING AND NEW WOOD TRIM, HANDRAILS, FLOORING, CEILING TRIM, OR OTHER ELEMENTS SHALL BE PREPPED, PRIMED AND EITHER STAINED OR PAINTED. COLOR TO MATCH EXISTING FINISHES, UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.
F. PATCH AND REPAIR ALL ADJACENT SURFACES AND MATERIALS DISTURBED DUE TO THE NEW CONSTRUCTION FOR A SEAMLESS APPEARANCE AT CLOSE OF CONSTRUCTION.
G. ALL EXPOSED METAL/STEEL IS TO BE PAINTED W/ HIGH PERFORMANCE COATING.

FLOOR PLAN KEYED NOTES:

1. INSTALL NEW CONCRETE SIDEWALK AT ENTRANCE. CREATE SLIGHT SWALES AD EDGES TO ASSIST WITH SIDEWALK TRANSITION AND WATER DRAINAGE. PITCH SIDEWALK ¼" PER 1'-0" AWAY FROM BUILDING FOR DRAINAGE. CONCRETE IS TO HAVE LIGHT BROOM FINISH.
2. INSTALL NEW CONCRETE PLINTH FOR BASE BELOW CLOCK TOWER BELL. PLINTH CONCRETE IS TO BE COLORED TO MATCH THE ADJACENT STONE WALLS AND HAVE A WEATHERED STONE TEXTURED FACE IN KEEPING WITH THE STONE TO BLEND WITH THE HISTORIC MATERIALS. REINSTALL BRONZE BELL ONCE CONCRETE HAS CURED.
3. CORE CONCRETE BELOW GRADE TO INSTALL NEW CONDUIT FOR ELECTRICAL FEEDS FOR ACCESS CONTROL AND ACCESSIBILITY ASSIST SYSTEMS. CONDUIT IS TO BE WATER-TIGHT AND FED UP INTO BASE OF PEDESTAL. PEDESTAL IS TO BE WATER TIGHT FORMED METAL WITH DARK BRONZE FINISH.
4. INSTALL NEW ALUMINUM STOREFRONT WITH INSULATED GLAZING, DOOR, NEW ELECTRONIC HARDWARE, AND THRESHOLD. FINISH IS TO BE ANODIZED ALUMINUM IN DARK BRONZE FINISH. INSTALL NEW PERIMETER SEALANT AT ALUMINUM FRAME. SEALANT TO MATCH STONE COLOR.
5. INSTALL NEW VINYL APPLIED SIGNAGE AT SIDELITE GLAZING TO INDICATED ACCESSIBLE ENTRANCE / PASSAGE TO ELEVATOR.
6. INSTALL NEW CONCRETE AT LANDING, COLOR / TEXTURE TO MATCH HISTORIC STONE.
7. INSTALL NEW CONCRETE STEP INTEGRATED WITH LANDING. ALTERNATE: INSTALL WOOD STEP WITH RIGID INSULATION BELOW TO DEADEN FOOTFALL SOUND. RUBBER NOSING AND RISER WITH CARPET ON TREAD.
8. INSTALL NEW CONCRETE ACCESSIBLE RAMP AT 1" TO 1'-0" SLOPE. AT WEST END, EMBED CONCRETE INTO EXISTING SLAB MINIMUM 2 INCHES. ALTERNATE: INSTALL WOOD ACCESSIBLE RAMP.
9. INSTALL NEW POWDER-COATED, PAINTED METAL HANDRAILS. RAILS ARE TO BE GALVANIZED AT EXTERIOR PRIOR TO FINAL PAINT.
10. REINSTALL MECHANICAL FLOOR BASE HEATER.
11. INSTALL NEW CARPET TILE (24 X 24") AT STAIR / RAMP AND THROUGHOUT BASEMENT ENTRANCE HALL. PREPARE EXISTING SURFACE WITH SELF LEVELING EPOXY TREATMENT PRIOR TO CARPET TILE INSTALLATION. AT ENTRANCE LANDING, UTILIZE HIGH TRAFFIC WALK-OFF CARPET TILE FOR SLIP RESISTANCE TO ADDRESS POTENTIAL FOR WATER. INCORPORATE ALLOWANCE FOR $42 PER SQUARE YARD (MATERIAL AND LABOR).
12. REPAIR EXISTING PLASTER WALLS WITH NEW SKIM COAT TO SMOOTH SURFACE WHERE WOOD WAINSCOT WAS REMOVED. PAINT ALL WALLS FOR CONSISTENT FINISH. SATIN SHEEN PAINT FINISH. WHERE NEW ELECTRICAL CONDUIT IS REQUIRED, CHANNEL PLASTER WALLS TO CONCEAL CONDUIT.
13. INSTALL NEW TRIM AND FRAME AT OPENING TO CRAWL SPACE WHERE TERMITE DAMAGE OCCURRED. PRIME AND PAINT WOOD TRIM.
14. REDRESS / RESURFACE UNEVEN AREA OF STONE MASONRY WHERE SPALLING MATERIALS WERE REMOVED. REPOINT DETERIROATED MASONRY MORTAR JOINTS.
15. INSTALL NEW SEALANT AT HORIZONTAL / SKYWARD FACING MORTAR JOINTS.
16. INSTALL NEW PERIMETER SEALANT AT ALUMINUM STOREFRONT FRAME.
17. REPLACE AREAS OF PLASTER THAT HAVE DELAMINATED AND ARE UNSOUND. WIDEN JOINT AT CRACKING AND INSTALL NEW PLASTER TREATMENT / REPAIRS. SKIM COAT AS REQUIRED FOR SEAMLESS APPEARANCE WITH ADJACENT SURFACES. SKIM COAT IS TO INTEGRATE TEXTURE TO COORDINATE WITH THE EXISTING FINISH. PREP, PRIME, AND REPAINT.
18. INSTALL MORTAR PATCHING COMPOUND AT AREAS OF STONE DETERIORATION AT BASE OF WALL WHERE DEPTH OF DETERIORATION IS ½" OR GREATER.
19. REINSTALL EXISTING WOOD TREADS AFTER INSPECTION AND REPAIR FOR SEAMLESS APPEARANCE. PATCH WHERE HANDRAIL WAS REMOVED.
20. REVISE EXISTING CEILING TO SHIFT THE HEIGHT TRANSITION 8'-0" TO THE WEST OF IT'S PREVIOUS LOCATION. THIS AFFECTS TWO LIGHT FIXTURES THAT ARE TO BE REINSTALLED AT THE REVISED HEIGHT. INSTALL NEW ACOUSTICAL CEILING TILE AND GRID THROUGHOUT THE BASEMENT ENTRY HALL. HEIGHT TRANSITION IS APPROXIMATELY 1'-0".
21. INSTALL NEW SHORING BELOW THE STAIRS. REFERENCE THE STRUCTURAL DRAWINGS FOR DETAILING OF NEW CONCRETE STAIR BASE AND DETAILING. NEW STAIRS ARE TO BE INSTALLED WITH A CONCRETE VENEER OVER THE NEW CONCRETE SUB-STRUCTURE. MOCK-UPS ARE TO BE COMPLETED TO PROVIDE A CONCRETE TREAD THAT MATCHES THE ORIGINAL STONE IN COLOR AND TEXTURE. INSTALL ICE MELT MATS BELOW THE STONE VENEER. ALTERNATE: INSTALL STONE TREAD OVER CONCRETE SUB-STRUCTURE BASE AT THE STAIR IN LIEU OF CONCRETE.
22. INSTALL NEW ELECTRICAL WIRING AND HARDWIRE ELECTRICAL PANEL AT WEST ENTRANCE BASEMENT LOCATION TO FEED DOOR ACCESS CONTROL SYSTEM AND SECURITY ALARM.
23. REPOINT EXISTING MASONRY MORTAR JOINTS - 100% OF ALL ELEVATIONS OF PILASTER SUPPORTS AT WEST END OF CRAWL SPACE.
24. REMOVE TEMPORARY WEATHER ENCLOSURE AND REINSTALL ALUMINUM STOREFRONT AND DOOR.
25. INSTALL NEW ¾" THICK CERAMIC TILE IN KEEPING WITH THE ORIGINAL HISTORIC FLOOR TILE WITH THROUGH BODY COLOR AND COLOR/SIZE/SHAPE MATCH.
26. INSTALL EPOXY INJECTION TO STABILIZE EXISTING STONE SIDEWALLS . REPOINT EXISTING MORTAR JOINTS 100% AT SIDEWALLS. INSTALL SEALANT AT ALL JOINTS BETWEEN BUILDING AND SIDEWALL.
27. INSTALL NEW MORTAR AT KEYSTONE AND ADJACENT STONES AT ARCHWAY ABOVE THE STAIRWAY.
28. INSTALL NEW ACCESSIBLE ASSIST BUTTON AT INTERIOR WALL SOUTH OF DOOR OPENING CENTERED BELOW EXIT SIGNAGE.

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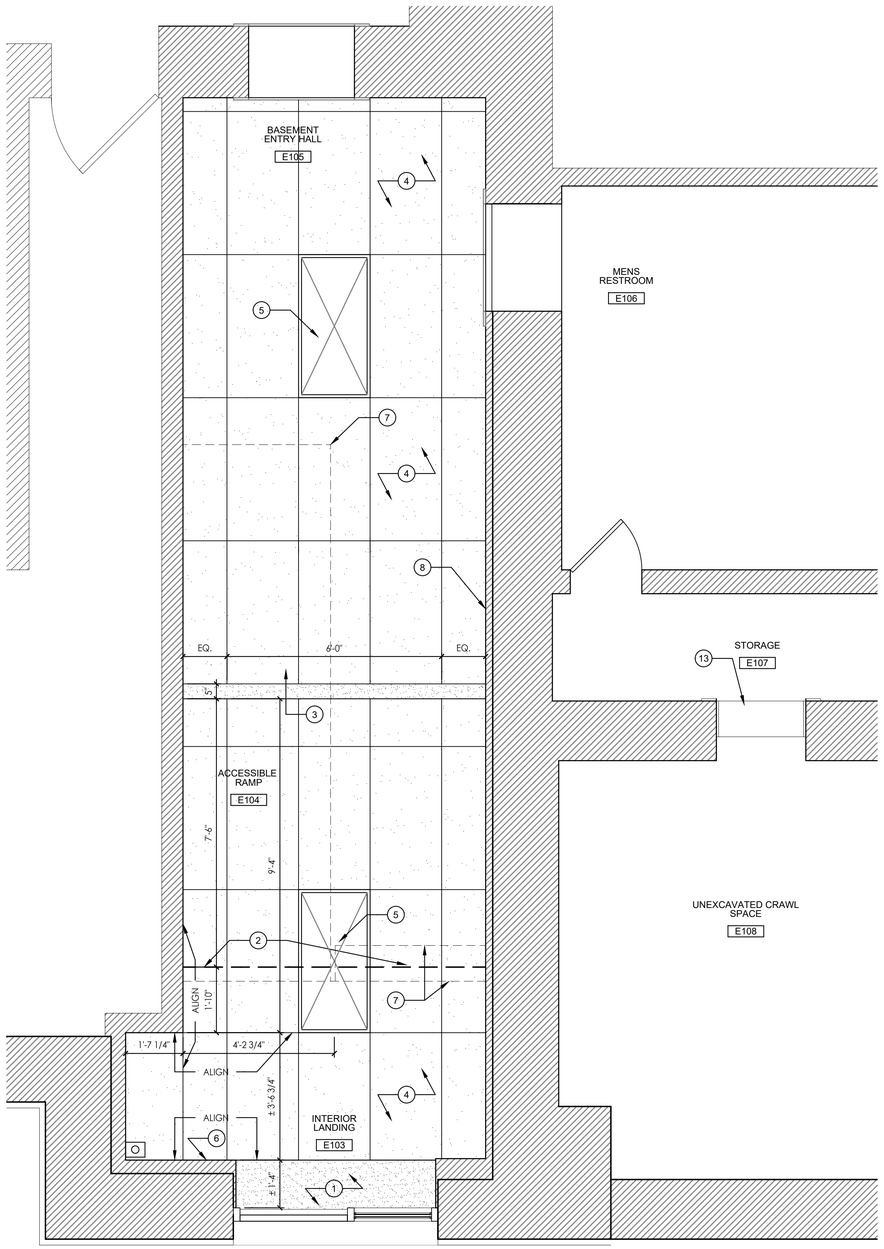
03.14.2023

Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023
REVISION & DATE:

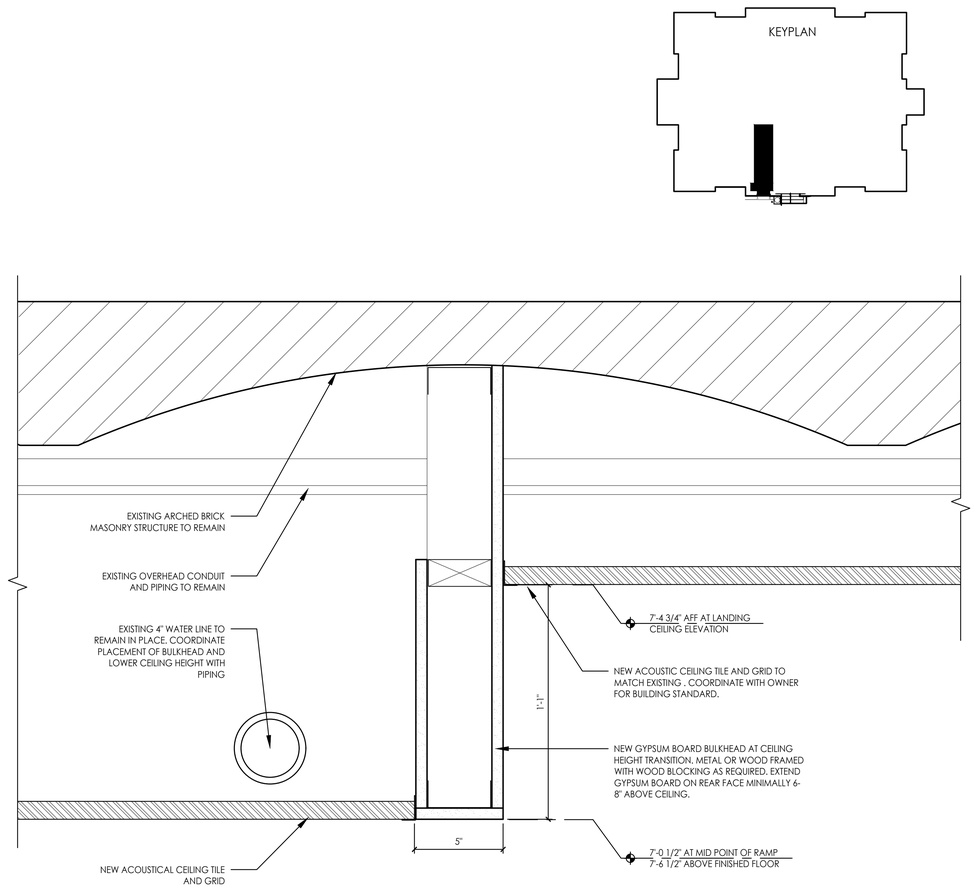
ENLARGED FLOOR PLANS
SHEET NUMBER:

A101



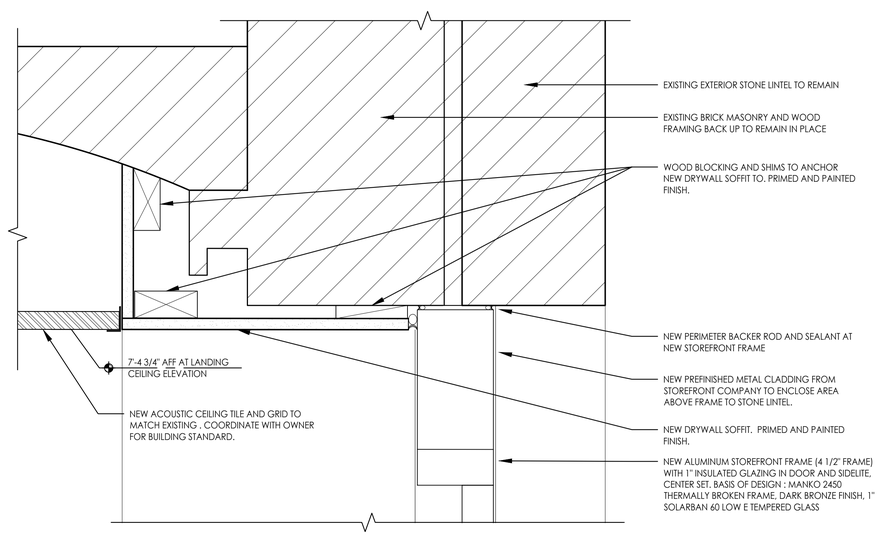
1 ENLARGED REFLECTED CEILING PLAN - EAST ACCESSIBLE ENTRANCE

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



3 SECTION DETAIL AT CEILING HEIGHT TRANSITION

Scale: 3" = 1'-0"



2 SECTION DETAIL AT ENTRANCE LINTEL / DOOR HEAD

Scale: 3" = 1'-0"

GENERAL NOTES:

A. GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
B. PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE AT THE INTERIORS DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
C. THE TERM "REMOVE" SHALL INCLUDE THE PROPER DISPOSAL OF THE DEMOLISHED MATERIAL. CLEANING OF THE REMAINING CONDITION AND PREPARATION OF THE AREA FOR NEW MATERIALS.
D. ANY EXISTING/HISTORIC TRIM OR DETAILING IS TO BE REPAIRED IN PLACE OR REPLACED IN KIND, MATCHING DIMENSIONS, PROFILES & DETAILING.
E. ALL EXISTING AND NEW WOOD TRIM, HANDRAILS, FLOORING, CEILING TRIM, OR OTHER ELEMENTS SHALL BE PREPPED, PRIMED AND EITHER STAINED OR PAINTED. COLOR TO MATCH EXISTING FINISHES, UNLESS OTHERWISE NOTED OR AS DIRECTED BY OWNER.
F. PATCH AND REPAIR ALL ADJACENT SURFACES AND MATERIALS DISTURBED DUE TO THE NEW CONSTRUCTION FOR A SEAMLESS APPEARANCE AT CLOSE OF CONSTRUCTION.
G. ALL EXPOSED METAL/STEEL IS TO BE PAINTED WITH HIGH PERFORMANCE COATING.

RCP KEYED NOTES:

1. INSTALL NEW DRYWALL SOFFIT TIGHT TO STRUCTURE AT ENTRANCE. NEW LINE OF SOFFIT IS TO ALIGN WITH ACOUSTICAL LAY-IN CEILING GRID / TILE. REFERENCE DETAIL 2/A150 FOR DETAILS.
2. LINE OF EXISTING HEIGHT TRANSITION IN CEILING. (*TO BE RELOCATED*)
3. NEW GYPSUM BOARD BULKHEAD AT CEILING FOR HEIGHT TRANSITION. REFERENCE CEILING DETAIL 3/A150 FOR DETAILS.
4. NEW ACOUSTICAL CEILING GRIDAND TILE. GRID TYPE, COLOR, AND STYLE TO MATCH EXISTING. NEW 24" X 48" ACOUSTICAL CEILING TILE TO MATCH EXISTING IN COLOR, STYLE, AND SIZE. COORDINATE WITH OWNER FOR ORIGINAL MANUFACTURER / BUILDING STANDARD ACT. GRID IS TO BE CENTERED IN THE NORTH / SOUTH DIRECTION AND ALIGN WITH SOUTH EAST CORNER AS INDICATED ON THE DRAWING.
5. EXISTING SALVAGED 24" X 48" LIGHT FIXTURE AND ACCESSORIES TO BE REINSTALLED.
6. COORDINATE PLACEMENT OF NEW EGRESS SIGN WITH ELECTRICAL WIRING.
7. LINE OF RAMP AND LANDING / STAIR BELOW.
8. REINSTALL SALVAGED MIRROR AND SHELVING IN LOCATION AS DIRECTED BY OWNER AFTER WALLS HAVE BEEN SKIM COATED AND REPAIRED. NOTE: SHELVING CANNOT PROJECT MORE THEN 4" INTO SPACE / PATH OF TRAVEL IF WITHIN HEIGHT BETWEEN 18" AFF AND 84" AFF. FOR PROTRUSIONS TO COMPLY.

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STATE OF MISSOURI
TRUDY R. FAULKNER
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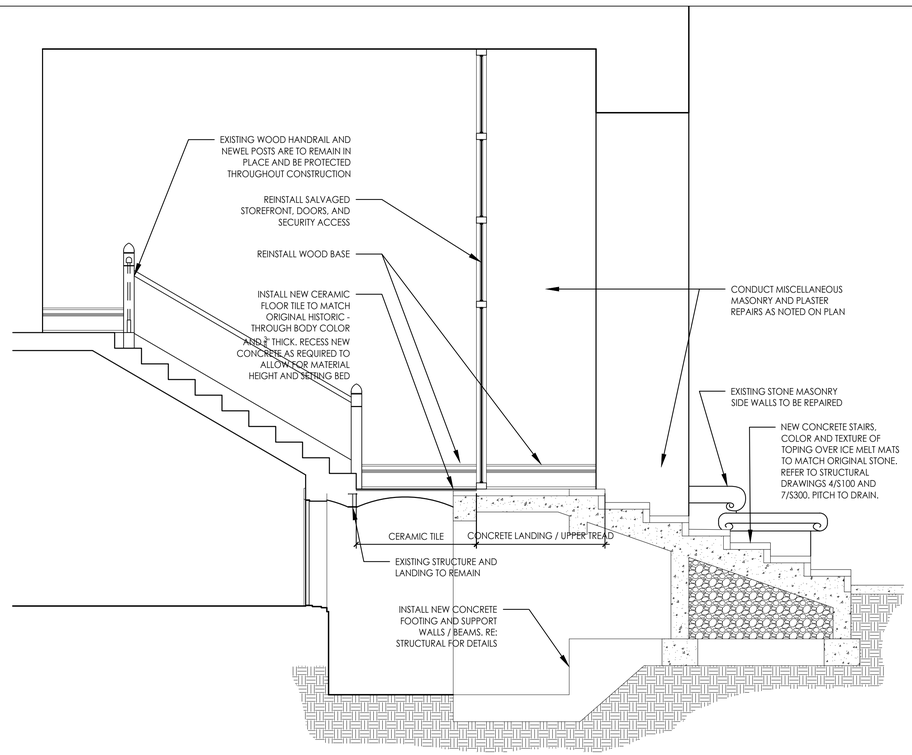
ARCHITECT

03.14.2023

Trudy R. Faulkner - Architect
MO# A-2010030288

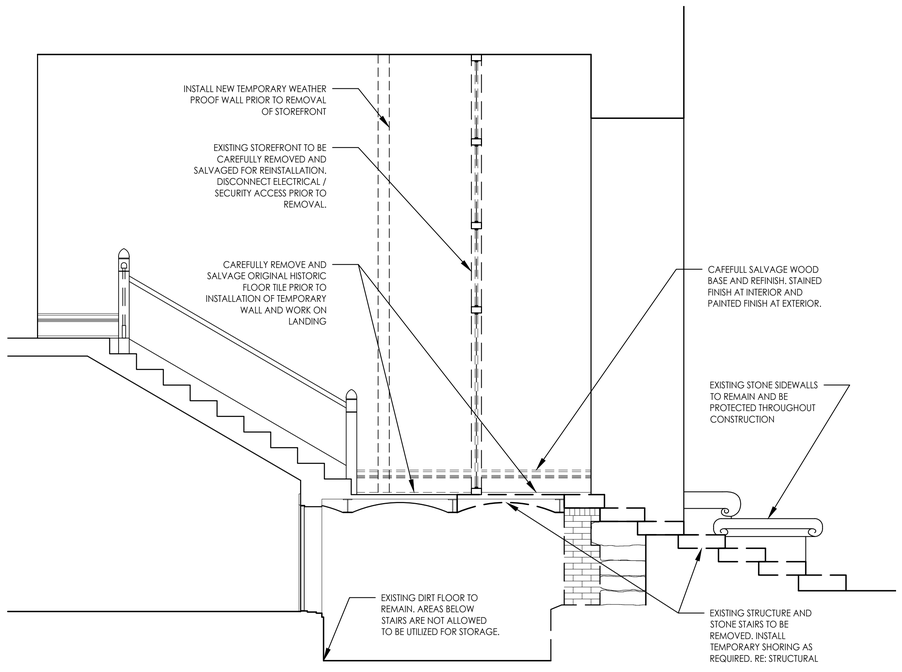
DATE:	MARCH 14, 2023
REVISION & DATE:	
REFLECTED CEILING PLAN	
SHEET NUMBER:	

A150



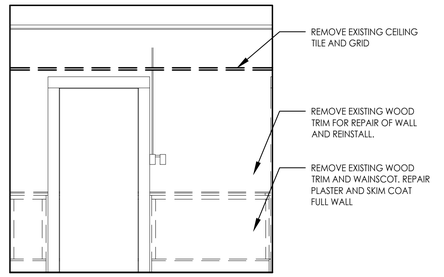
2 NEW SECTION THROUGH WEST ENTRANCE LOOKING SOUTH

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



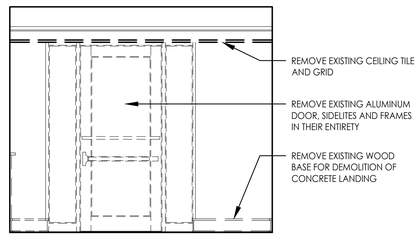
1 DEMOLITION SECTION THROUGH WEST ENTRANCE LOOKING SOUTH

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



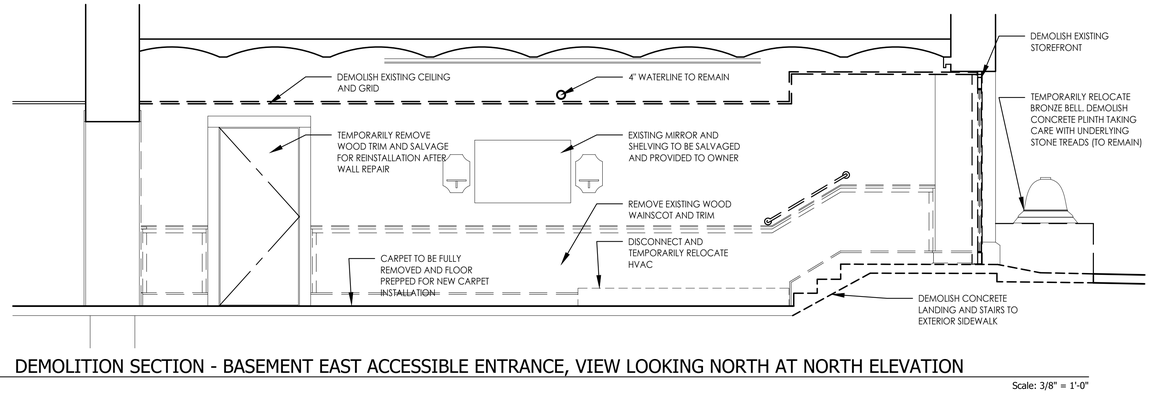
6 DEMOLITION ELEV. - EAST ACCESSIBLE ENTRANCE LOOKING WEST

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



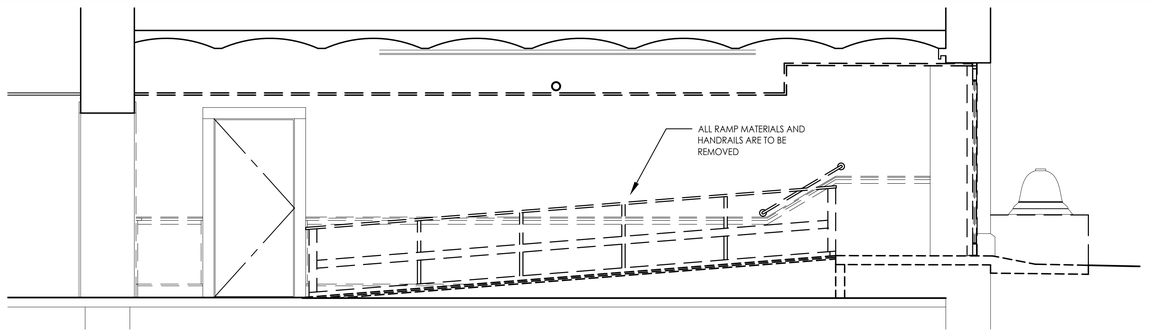
7 DEMOLITION ELEV. - EAST ACCESSIBLE ENTRANCE LOOKING EAST

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



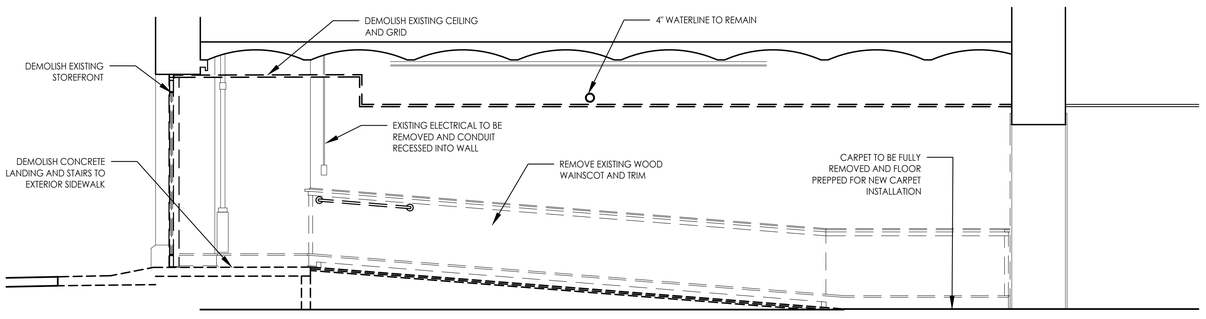
5 DEMOLITION SECTION - BASEMENT EAST ACCESSIBLE ENTRANCE, VIEW LOOKING NORTH AT NORTH ELEVATION

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



4 DEMOLITION SECTION - BASEMENT EAST ACCESSIBLE ENTRANCE, LOOKING NORTH AT RAMP RAILING

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



3 DEMOLITION SECTION - BASEMENT EAST ACCESSIBLE ENTRANCE, VIEW LOOKING SOUTH

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

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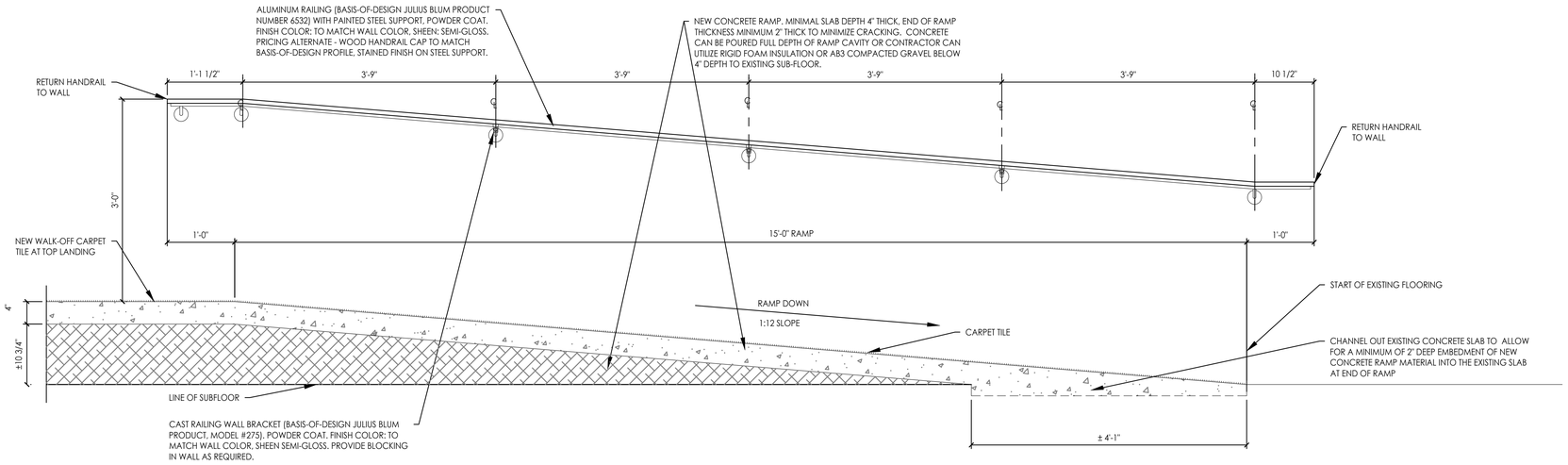
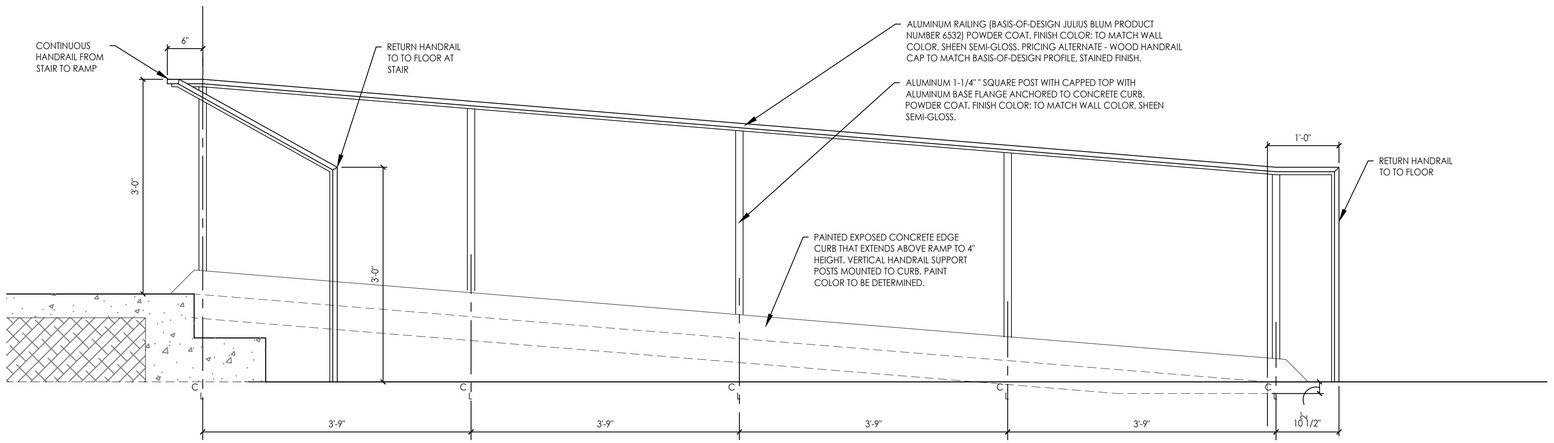
BLDG SECTIONS/ELEVATIONS
SHEET NUMBER:

A300



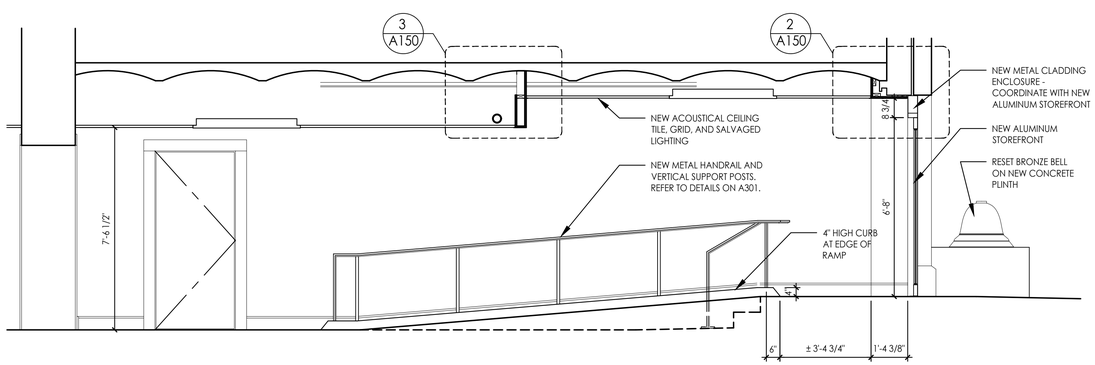
4 ENLARGED SECTION AT RAMP LOOKING SOUTH

Scale: 1" = 1'-0"



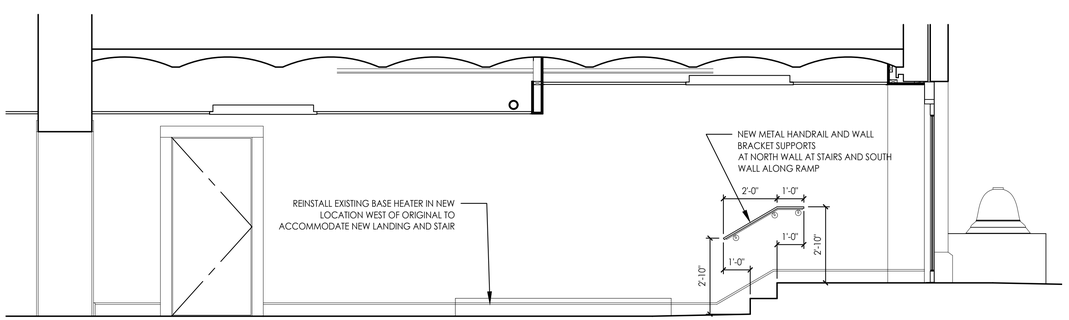
3 ENLARGED SECTION AT STAIR LOOKING SOUTH

Scale: 1" = 1'-0"



1 SECTION THROUGH RAMP AT EAST ENTRANCE LOOKING NORTH

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



2 SECTION THROUGH STAIR AT EAST ENTRANCE LOOKING NORTH AT NORTH WALL

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

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SHEET NUMBER:

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EXISTING DETERIORATED CONCRETE BELL PLINTH TO BE REMOVED IN ITS ENTIRETY. CAREFULLY REMOVE MATERIALS FROM HISTORIC STONE FACE WITH THE GENTLEST MEANS POSSIBLE. REMOVE SEALANTS IN THEIR ENTIRETY. INSTALL BOND BREAKER AND COMPRESSIBLE FILLER FOR JOINT BETWEEN NEW PLINTH AND HISTORIC STONE TO PROVIDE A COLD JOINT. INSTALL NEW SEALANT AT JOINT.

13 EAST PRIMARY ENTRANCE - SOUTH STAIR SIDE/PLINTH

N.T.S.

EXISTING MASONRY CONDITIONS AT EAST PRIMARY ENTRANCE EXTERIOR LANDING, SOUTH SIDE.

REMOVE DETERIORATED MORTAR, INCOMPATIBLE PATCHES AND LOOSE SCALING SURFACE STONE BACK TO STABLE MATERIAL. INSTALL NEW MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) TO MATCH EXISTING STONE COLOR TEXTURE AND DIMENSIONS. INSTALL NEW TYPE "O" MORTAR WITH HIGH LIME CONTENT.

INSTALL NEW SEALANT JOINT AT INTERSECTION OF STONE WALL TO STAIR

14 EAST PRIMARY ENTRANCE - SOUTH SIDE

N.T.S.

EXISTING MASONRY CONDITIONS AT EAST PRIMARY ENTRANCE EXTERIOR LANDING, SOUTH SIDE.

REMOVE DETERIORATED MORTAR, INCOMPATIBLE PATCHES AND LOOSE SCALING SURFACE STONE BACK TO STABLE MATERIAL. INSTALL NEW MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) TO MATCH EXISTING STONE COLOR TEXTURE AND DIMENSIONS. INSTALL NEW TYPE "O" MORTAR WITH HIGH LIME CONTENT.

15 EAST PRIMARY ENTRANCE - SOUTH SIDE

N.T.S.

EXISTING MASONRY CONDITIONS AT EAST PRIMARY ENTRANCE EXTERIOR LANDING, NORTH SIDE.

LIGHTLY CLEAN THE STONE WITH THE GENTLEST MEANS POSSIBLE. BASIS OF DESIGN MASONRY CLEANING PRODUCTS IS PROSOCO. COMPLETE A MOCK-UP PRIOR TO FULL CLEANING TO DETERMINE APPROPRIATE MATERIALS AND DWELL TIMES FOR REMOVAL OF STAINING. INFILL SIGNAGE ANCHOR HOLES WITH MORTAR PATCHING COMPOUND TO MATCH ORIGINAL STONE COLOR AND TEXTURE. BASIS OF DESIGN FOR PATCH IS CONPROCO OR JAHN CATHEDRAL PRODUCTS

16 EAST PRIMARY ENTRANCE - NORTH UPPER LANDING

N.T.S.

AREA ABOVE THE EAST ACCESSIBLE ENTRANCE CEILING. VIEW LOOKING WEST AT THE 4" DIAMETER WATER PIPE THAT CROSSES THE HALL.

WORK AT THE CEILING WILL BE TO SHIFT THE 1'-0" CEILING DROPPED DOWN BACK TO THE WEST APPROXIMATELY 9'-0" AND ADJUST THE ACOUSTICAL CEILING TILE / GRID, TWO LIGHT FIXTURES AND ASSOCIATED ELECTRICAL WIRING. THERE ARE A FEW MISCELLANEOUS ELECTRICAL CONDUITS THAT MAY REQUIRE ADJUSTMENT. ADDITIONALLY, A NEW ELECTRICAL FEED WILL CARRY ACROSS THIS CEILING FROM THE BASEMENT ELECTRICAL PANEL TO TIE INTO THE NEW ADA AND ACCESS CONTROLS TO BE INSTALLED AT THE EAST DOOR.

9 EAST ACCESSIBLE ENTRANCE - CEILING CONDITIONS

N.T.S.

AREA BELOW EAST PRIMARY STAIR IN CRAWL SPACE. AREAS WAS UNEXCAVATED AND FULL OF CONSTRUCTION DEBRIS. FULL CONDITIONS OF STAIR SUPPORTING STEEL COULD NOT BE ASSESSED.

GENERAL CONTRACTOR IS TO REMOVE ALL DEBRIS TO CLEAR A PATH TO THE EASTERN STAIR UNDERSIDE FOR FURTHER OBSERVATIONS/INVESTIGATIONS.

10 EAST PRIMARY ENTRANCE - CRAWL SPACE

N.T.S.

EXISTING MASONRY CONDITIONS AT EAST PRIMARY ENTRANCE STAIR, NORTH SIDE.

REMOVE AREA OF INCOMPATIBLE, TOO HARD MORTAR. REMOVE FAILING PATCHES, REMOVE LOOSE AND DELAMINATED SURFACES OF STONE BACK TO SOLID MATERIAL.

INSTALL MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) AT DETERIORATED AREAS WITH GREATER THAN $\frac{1}{2}$" IN DEPTH MATERIAL LOSS. REPOINT 100% OF MORTAR JOINTS IN THIS LOCATION. INSTALL SEALANT BETWEEN STONE AT WALL AND STAIR TREADS.

11 EAST PRIMARY ENTRANCE - NORTH STAIR SIDE

N.T.S.

EXISTING MASONRY CONDITIONS AT EAST PRIMARY ENTRANCE EXTERIOR LANDING, NORTH SIDE.

REMOVE MATERIAL FROM JOINT WITH INCOMPATIBLE, TOO HARD MORTAR. REMOVE FAILING PATCHES, REMOVE LOOSE AND DELAMINATED SURFACES OF STONE BACK TO SOLID MATERIAL.

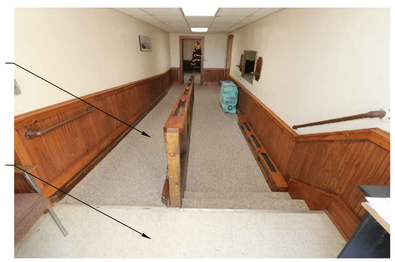
INSTALL MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) AT DETERIORATED AREAS WITH GREATER THAN $\frac{1}{2}$" IN DEPTH MATERIAL LOSS. REPOINT 100% OF MORTAR JOINTS IN THIS LOCATION. INSTALL SEALANT BETWEEN PLASTER AND STONE, FULL HEIGHT

12 EAST PRIMARY ENTRANCE - NORTH STAIR SIDE

N.T.S.

EXISTING NON-ORIGINAL WOOD RAMP, RAILINGS, AND WOOD WAINSCOT TO BE REMOVED

EXISTING 1960S CONCRETE LANDING AND STAIR TO BE REMOVED

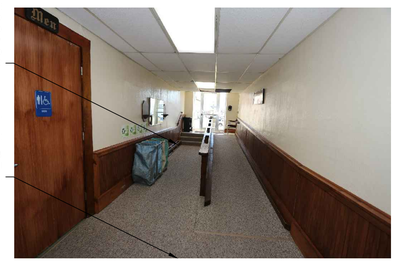


5 EAST ACCESSIBLE ENTRANCE - LKG WEST

N.T.S.

EXISTING MECHANICAL EQUIPMENT TO BE TEMPORARILY DISCONNECTED AND SHIFTED FURTHER WEST TO ACCOMMODATE NEW CONCRETE LANDING AND STAIR

REMOVE ALL EXISTING CARPET AND CEILING GRID / TILE. TEMPORARILY DISCONNECT AND SALVAGE EXISTING 2X4 LIGHTS FOR REINSTALLATION IN NEW LOCATIONS.

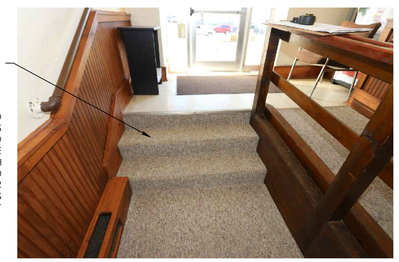


6 EAST ACCESSIBLE ENTRANCE - LKG EAST

N.T.S.

EXISTING CONCRETE STAIRS TO BE REMOVED IN THEIR ENTIRETY ALONG WITH THE LANDING. LANDING IS TO BE LOWERED APPROXIMATELY 4" FOR ALIGNMENT WITH THE NEW EXTERIOR ACCESSIBLE WALK HEIGHT.

ALL EXISTING WOOD WAINSCOPE AND TRIM AS WELL AS RAMP AND HANDRAIL COMPONENTS ARE TO BE REMOVED. PATCH WALLS AS REQUIRED AND INSTALL NEW PLASTER VENEER SKIM COAT OVER ALL WALLS FULL HEIGHT



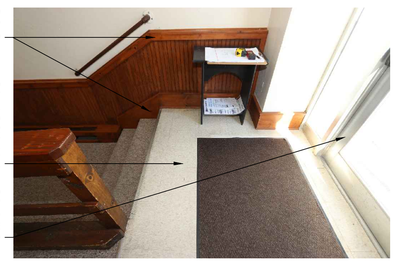
7 EAST ACCESSIBLE ENTRANCE - INTERIOR STAIR

N.T.S.

EXISTING WOOD WAINSCOT TO BE REMOVED. NEW WOOD TRIM BASE (5 $\frac{3}{4}$" HIGH WITH $\frac{3}{4}$" CAP) TO BE INSTALLED

EXISTING CONCRETE STAIRS TO BE REMOVED IN THEIR ENTIRETY ALONG WITH THE LANDING. LANDING IS TO BE LOWERED APPROXIMATELY 4" FOR ALIGNMENT WITH THE NEW EXTERIOR ACCESSIBLE WALK HEIGHT.

EXISTING STOREFRONT AND DOOR TO BE REMOVED. NEW ALUMINUM STOREFRONT AND DOOR WITH 1" IGU TO BE INSTALLED

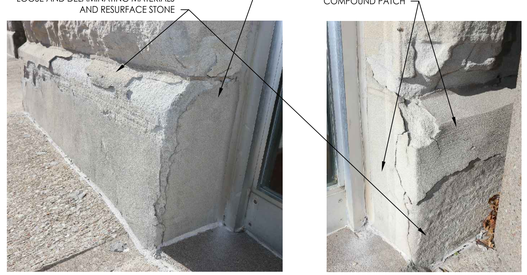


8 EAST ACCESSIBLE ENTRANCE - INTERIOR LANDING

N.T.S.

MASONRY SCALING, DELAMINATION AND SPALLED MATERIALS. REMOVE LOOSE AND DELAMINATING MATERIALS AND RESURFACE STONE

NON-ORIGINAL, CEMENTITOUS INCOMPATIBLE AND FAILING PATCH. REMOVE PATCH AND INSTALL MORTAR PATCHING COMPOUND PATCH



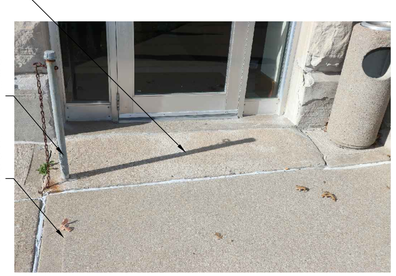
1 EAST ACCESSIBLE ENTRANCE - MASONRY

N.T.S.

SECTION OF SIDEWALK WITH NON-COMPLIANT SLOPE FOR ACCESSIBLE ROUTE TO BE REMOVED AND CORRECTED

NON-ORIGINAL POST AND CHAIN TO BE REMOVED IN ITS ENTIRETY. PATCH CONCRETE SIDEWALK AFTER REMOVAL

INSTALLATION OF ELECTRICAL CONDUIT BELOW SIDEWALK MAY REQUIRE CHANNELING AND PATCHING OF EXISTING SIDEWALK



2 EAST ACCESSIBLE ENTRANCE - SIDEWALK CONDITIONS

N.T.S.

ORIGINAL STONE STAIR TREADS CONCEALED BELOW CONCRETE BELL PLINTH TO BE PROTECTED DURING REMOVAL OF FAILING CONCRETE PLINTH AND INSTALLATION OF NEW PEDESTAL / PLINTH

3 EAST ACCESSIBLE ENTRANCE - BELL PLINTH

N.T.S.

SIGNIFICANTLY DETERIORATED CONCRETE PLINTH BELOW CLOCK BELL TO BE REMOVED IN ITS ENTIRETY AND REPLACED WITH NEW CONCRETE PLINTH COLORED AND TEXTURED TO MATCH ADJACENT STONE INSTALL BOND BREAKER BETWEEN NEW CONCRETE AND EXISTING HISTORIC STONE WALL

4 EAST ACCESSIBLE ENTRANCE - BELL PLINTH

N.T.S.

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EAST AND WEST ENTRANCES

300 NORTH HOLDEN STREET
WARRENSBURG, MISSOURI 64093

STATE OF MISSOURI
TRUDY R. FAULKNER
NUMBER A-2010030288
ARCHITECT
03.14.2023

Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023
REVISION & DATE:

BUILDING CONDITIONS - EAST
SHEET NUMBER:

A500

OVERALL VIEW OF THE WEST ENTRANCE STAIRS ILLUSTRATING THE LEVEL OF DETERIORATION AND PRESENCE OF REINFORCING STEEL CORROSION, DELAMINATION AT THE STONE TREADS, STRUCTURALLY DEFICIENT TREADS WITH THROUGH BODY CRACKING AND STONE SCALING AND DELAMINATION AT THE SURROUNDING MASONRY

NOTE: THE HANDRAILS ARE NON-COMPLIANT AND ONLY PRESENT AT ONE SIDE. REMOVE THE HANDRAIL IN ITS ENTIRETY AND INSTALL NEW HANDRAILS AT EITHER SIDE OF THE STAIR PER PLANS. SHOP DRAWINGS ARE TO BE SUBMITTED AND APPROVED PRIOR TO FABRICATION. FINISH IS TO BE GALVANIZED STEEL WITH HIGH PERFORMANCE COATINGS OVER.

13 WEST ENTRANCE - OVERALL VIEW

N.T.S.

EXISTING STOREFRONT IS TO BE CAREFULLY DISASSEMBLED AND SALVAGED FOR REINSTALLATION AFTER REPAIRS. IN STALL A NEW ALUMINUM THRESHOLD TO CONCEAL JOINT BETWEEN CONCRETE AND INTERIOR LANDING CERAMIC TILE.

STAIR LANDING AT WEST ENTRANCE WITH STONE TREAD SHOWING AND SECTIONS OF DETERIORATION AT THE STONE TREAD AND TILE. NOTE THIS LANDING WILL BE DEMOLISHED TO REMOVE DETERIORATED STEEL SUPPORTS BELOW AND INSTALL NEW FRAMING AND A CONCRETE BASE FOR THE NEW STAIRS. NEW CONCRETE IS TO BE INSTALLED AT THE LANDING TO MATCH THE NEW STAIR TREADS.

14 WEST ENTRANCE - LANDING STONE TREAD / TILE

N.T.S.

EXISTING STEEL SUPPORT BELOW EXTERIOR WEST ENTRANCE UPPER LANDING.

NOTE: DUE TO SIGNIFICANT WATER INFILTRATION, THE SUPPORT STEEL HAS SIGNIFICANT DETERIORATION. DUE TO BEING PARTIALLY CONCEALED WITHIN THE SURROUNDING BRICK MASONRY, THE FULL EXTENT OF DETERIORATION CANNOT BE ASSESSED. THIS STEEL SUPPORT IS TO BE REMOVED IN ITS ENTIRETY AND REPLACED WITH NEW FRAMING TO SUPPORT THE NEW CONCRETE STAIR BASE.

NOTE MASONRY JOINTS WITH SIGNIFICANT MORTAR LOSS AND OPEN JOINTS. COORDINATE WITH STRUCTURAL FOR SHORING AND REPAIRS.

15 WEST ENTRANCE - SUPPORT STEEL AT CRAWL SPACE

N.T.S.

THERE IS A HIGH LEVEL OF WATER STAINING, MISSING AND DETERIORATED MORTAR, AS WELL AS AREAS WHERE DAYLIGHT IS VISIBLE THROUGH THE STONE TREADS

NOTE MASONRY JOINTS WITH SIGNIFICANT MORTAR LOSS AND OPEN JOINTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR SHORING AND REPAIRS.

16 WEST ENTRANCE - MASONRY PIER SUPPORTS

N.T.S.

AREA OF ORIGINAL SANDSTONE TREAD AT THE WEST STAIR THAT HAS DELAMINATED AT THE TOP LAYER AND IS ONLY HELD IN PLACE WITH PARTIAL COATING MATERIALS. THIS IS A TRIP HAZARD THAT COULD BREAK LOOSE AND CREATE AN UNSTABLE SECTION ON THE STAIRS. NOTE BULGING AND DELAMINATED STONE ON TREAD ABOVE DUE TO THE COATINGS TRAPPING WATER IN THE STONE TREADS.

9 WEST ENTRANCE - STONE STAIR TREADS

N.T.S.

DETAIL ILLUSTRATING DETERIORATION AND STRUCTURALLY DEFICIENT STONE TREAD WITH THROUGH BODY CRACKING.

NOTE, SETTLEMENT CRACKING IS CONTINUOUS THROUGH ADJACENT CONCRETE LANDING AND UP ADJACENT PLASTER WALL EXTENDING INTO THE INTERIOR VESTIBULE AREA AT THE NORTH WALL.

REMOVE ALL EXTERIOR NON-ORIGINAL CERAMIC TILE. FROM THE STOREFRONT OUT TO THE NEW TREAD, THE LANDING IS TO BE CONCRETE TO MATCH THE EXISTING HISTORIC STONE IN COLOR AND TEXTURE. MOCK-UPS FOR APPROVAL ARE REQUIRED PRIOR TO PROCEEDING. TILE AT INTERIOR LANDING IS TO BE CAREFULLY REMOVED AND SALVAGED.

10 WEST ENTRANCE - LANDING STONE TREAD/TILE

N.T.S.

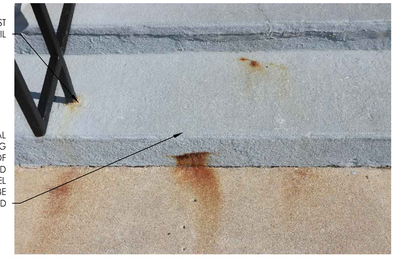
DETAILED VIEW OF NON-ORIGINAL CONCRETE TREAD DETERIORATION AND REINFORCING STEEL CORROSION. TREAD TO BE REMOVED AND REPLACED

11 WEST ENTRANCE - LOWER CONCRETE TREAD

N.T.S.

STEEL CORROSION AT POST BASE OF METAL HANDRAIL

BOTTOM NON-ORIGINAL CONCRETE TREAD ILLUSTRATING SIGNIFICANT SIGNS OF DETERIORATION AND REINFORCING STEEL CORROSION. TREAD TO BE REMOVED AND REPLACED



12 WEST ENTRANCE - LOWER CONCRETE TREAD

N.T.S.

INTERSECTION OF NORTH SIDEWALL MASONRY AT BUILDING MASONRY WITH DETAIL OF LEVEL OF SANDSTONE DETERIORATION WITH SCALING, DELAMINATION AND SUGARING AT THE INTERSECTION.

REMOVE DETERIORATED MATERIALS BACK TO A STABLE SURFACES AND REPAIR WITH MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) TO MATCH THE HISTORIC STONE IN COLOR TEXTURE AND PROFILE.

INSTALL SEALANT AT THE JOINT.

5 WEST ENTRANCE - NORTH SIDE WALL INTERSECTION

N.T.S.

HISTORIC SANDSTONE ARCH OVER WEST ENTRANCE STAIRS. NOTE MISSING MORTAR AT KEYSTONE AND UNDERNEATH ARCH. REPOINT MINIMALLY FOUR JOINTS OF STONE (2 JOINTS ON EITHER SIDE OF THE KEYSTONE) FULL DEPTH OF THE ARCHED OPENING

6 WEST ENTRANCE - ARCHED MASONRY OPENING

N.T.S.

DETERIORATED MASONRY AT SOUTHSIDE OF WEST ENTRANCES STAIR WHERE ICE MELT CHEMICALS HAVE LEACHED UP INTO THE STONE. PRESENCE OF SCALING, SPALLING AND DELAMINATION OF SURFACE MATERIALS . REMOVE ALL LOOSE MATERIALS BACK TO SOLID, STABLE SURFACE .

REMOVE FAILING AND INCOMPATIBLE PATCHES.

INSTALL A MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) WHERE DETERIORATION IS GREATER THAN $\frac{1}{2}$" IN DEPTH.

7 WEST ENTRANCE - SOUTH SIDE AT LANDING

N.T.S.

REMOVE EXISTING METAL HANDRAIL. TOP RAIL POST HAS CREATED CRACKING AT THE STONE TREAD. CORROSION IS PRESENT AT THE BASE OF THE RAIL POSTS. INSTALL NEW HANDRAILS AT BOTH SIDES OF THE STAIR PER THE PLANS.

INCOMPATIBLE PATCHING IS FAILING AND BEGINNING TO DELAMINATE. REMOVE PATCH IN ITS ENTIRETY AND INSTALL NEW MORTAR PATCHING COMPOUND (BASIS OF DESIGN - CONPROCO OR CATHEDRAL STONE JAHN PRODUCTS) IN KEEPING WITH HISTORIC SANDSTONE COLOR, TEXTURE, AND PROFILE.

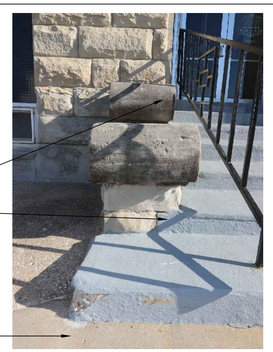
8 WEST ENTRANCE - NORTH SIDE AT STAIRS

N.T.S.

EXISTING NORTH SIDEWALL CONSTRUCTION. EXISTING MASONRY IS TO REMAIN IN PLACE. WHERE THE STONE TREADS ARE EMBEDDED INTO THE WALL, THE STAIR IS TO BE SAW CUT TO RETAIN THE SECTION WITHIN THE WALL. REMOVE THE STONE TREAD BEYOND THE SIDEWALLS IN ITS ENTIRETY.

INSTALL NEW BOND BREAKER AND COMPRESSIBLE FILLER AT JOINT BETWEEN STONE AND NEW CONCRETE STAIR CONSTRUCTION .

BOTTOM NON-ORIGINAL CONCRETE TREAD ILLUSTRATING SIGNIFICANT SIGNS OF DETERIORATION AND REINFORCING STEEL CORROSION. TREAD TO BE REMOVED AND REPLACED AS WELL AS ADJACENT SIDEWALK TO ALLOW FOR NEW FOOTING EXCAVATION



1 WEST ENTRANCE - NORTH SIDE WALL LKG EAST

N.T.S.

NORTH SIDE WALL TO REMAIN. MINOR CRACKING IS PRESENT AT THE STONE CAPS. INSTALL A HYDRAULIC LIME INJECTION AT THE FRONT EDGE OF THE TOP STONE TO STABILIZE THE MATERIAL

SCALING AND FAILED SEALANT AT ADJACENT WALL TO SIDEWALL CONSTRUCTION. REMOVE AND REPLACE SEALANT, AND REMOVE LOOSE DELAMINATING FINISHES FROM BUILDING MASONRY. REDRESS FACE OF STONE.

FAILED SEALANT AND OPEN MORTAR JOINTS. REMOVE DETERIORATED MORTAR AND REPOINT SIDE WALL 100% (ALL FACES)

2 WEST ENTRANCE - NORTH SIDE WALL LKG SOUTH

N.T.S.

EXISTING STONE SIDEWALL IS TO REMAIN. STONE TREADS ARE EMBEDDED IN SIDE WALLS. TREADS ARE TO BE SAW CUT AT THE EDGE AND REMOVED IN THEIR ENTIRETY. NEW CONCRETE BASE AND TOPPING OF STONE VENEER WILL BE INSTALLED TO ALIGN WITH ORIGINAL TREAT / STAIR DIMENSIONS. INSTALL COLD JOINT WITH BOND BREAKER BETWEEN STONE AND NEW CONCRETE CONSTRUCTION

3 WEST ENTRANCE - SOUTH SIDE WALL LKG SOUTH

N.T.S.

EXISTING HISTORIC STONE SIDEWALL AT THE SOUTH SIDE OF THE STAIR SHOWING A HIGH LEVEL OF MORTAR DETERIORATION AND SOME CRACKING AND FACE SCALING AT THE STONE CAPS.

ALL EXISTING MORTAR IS TO BE REMOVED AND REPOINTED 100%. SIDEWALL IS TO REMAIN IN PLACE AND BE PROTECTED THROUGHOUT CONSTRUCTION WHILE THE STAIRS ARE BEING REPLACED.

CRACKING IS PRESENT AT BOTTOM CONCRETE TREAD AND ADJACENT SIDEWALK

4 WEST ENTRANCE - SOUTH SIDE WALL LKG NORTH

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STATE OF MISSOURI
TRUDY R. FAULKNER
NUMBER A-2010030288
ARCHITECT

03.14.2023

Trudy R. Faulkner - Architect
MO# A-2010030288

DATE: MARCH 14, 2023

REVISION & DATE:

BUILDING CONDITIONS - WEST

SHEET NUMBER:

A501

GENERAL NOTES

A. GENERAL

1. Any condition encountered in the existing structural system which is different from that indicated in Drawings or which might create a failure or hazard shall be brought to the immediate attention of the Engineer.
2. The existing conditions indicated on the Drawings are based on surveys made by the consultant(s) as well as on material provided by the Owner and no claim is made as to its absolute completeness and/or accuracy. Prior to the start of construction operations, field-verify existing conditions and dimensions pertaining to this Contract. Notify the Engineer immediately of any discrepancies found at the site in relation to the information provided on the Drawings.
3. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications, General Notes, and Drawings.
4. All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
5. The adjacent facilities will remain in operation throughout the duration of the project. Contractor shall take all precautions necessary to ensure the safety of pedestrians around the jobsite.
6. Contractor is responsible for jobsite safety.
7. Contractor will schedule work in such a manner to minimize impact on Owner's operations.

B. DESIGN

1. Codes, specifications and standards (latest editions, U.N.O.)
   a. All design and construction shall conform to the International Existing Building Code (2018).
   b. Concrete damage/deterioration shall be repaired to its predamged condition in accordance with IEBC 2018 chapter 4.
   c. All construction shall comply with the provisions of the following codes, specifications and standards, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:

ACI 117	"Standard Specifications for Tolerance for Concrete Construction and Materials"
ACI 301	"Specifications for Structural Concrete for Buildings"
ACI 318	"Building Code Requirements for Reinforced Concrete"
AISC	"Load and Resistance Factor Design (LRFD) Specification for Structural Steel Buildings"
AWS D1.1	"Structural Welding Code – Steel"

C. CONCRETE

1. All concrete shall have a minimum 28-day ultimate compressive strength of 5000 psi.
   a. Minimum Cementitious Content: 611 lbs
   b. Air Entrainment: 6.5 percent +/- 1.5 percent
   c. Max w/c Ratio: .40
   d. Slump: 3" +/- 1"
   e. Synthetic Fibers: Re Specs.
2. Portland Cement: ASTM C 150, Type 1, 1L.
3. Water-reducing admixtures: ASTM C 494.
4. Normal Weight Aggregates: ASTM C 33.
   a. Use aggregates that are non-reactive with ASR or provide SCMs to mitigate ASR to maximum of 0.10 percent at an age of 16 days when tested in accordance with ASTM C1567 Modified (RE: Specs).
5. Air entrain all concrete (admixture: ASTM C 260).
6. Do not use calcium chloride admixtures under any circumstances.
7. Reinforcing bars: ASTM A 615 Specifications, Grade 60, deformed. Bend bars cold.
8. Epoxy-coated reinforcing bars: ASTM A 775. All new reinforcing to be to be epoxy coated.
9. Epoxy-coated steel wire and welded wire fabric: ASTM A 884, Class A.
10. Welded wire fabric (WWR): ASTM A 1064.
11. Maintain minimum concrete coverage for reinforcing as indicated, unless noted otherwise.
    a. 3 in. clear where concrete is deposited directly against earth.
    b. 2 in. clear where concrete is exposed to earth or weather but poured against forms for bars larger than #5.
    c. 1-1/2 in. clear where concrete is exposed to earth or weather, but poured against forms for bars #5 or smaller.
    d. 3/4 in. clear for slabs and walls formed above grade not exposed to weather.
    e. 1-1/2 in. clear for beam and columns formed above grade and not exposed to weather.
12. Lap all bars at splices in accordance with ACI 318, but not less than 40 bar diameters not less than 18 inches unless noted otherwise. All horizontal wall bars shall be developed at corners either by bending not less than 18 inches around corners or with properly placed hooked and lapped corner bars.
13. All bar steel and WWR shall be properly supported and held accurately in place as recommended by the Concrete Reinforcing Steel Institute, except that maximum spacing of any bar or welded wire fabric support shall be 3 feet.
    a. Support top slab bars with continuous high chairs.
    b. Support WWR properly supported at the mid-depth of the slab. Hooking and pulling up mesh after concrete has started to take its initial set is prohibited.
    c. Supports for reinforcement for exposed-to-view concrete surfaces shall have legs that are in contact with forms plastic protected (CRSI, Class 1) or stainless steel (CRSI, Class 2).
14. Construction joints, other than those shown, shall be held to a minimum but where necessary shall be at points of minimum shear.
15. All reinforcing shall be epoxy coated.
16. Horizontal construction joints are not permitted unless shown on the drawings. Deviations are not allowed unless approved by the Engineer in writing.
17. Cold-Weather Placement: Comply with ACI-318 reference ACI 306R-10 and as follows.
    a. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
    b. When average high and low temperature is expected to fall below 40 deg F (4.4 deg C) for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 306R-10 but in no case less than 50 degrees F.
    c. Do not use frozen materials or materials containing ice or snow.
    d. Do not place concrete in contact with surfaces less than 45 deg F (1.7 deg C), other than reinforcing steel.
    e Maintain substrate and concrete temperature to a minimum of 45 deg for a minimum of 48 hours.
    f. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
    g. Contractor to submit a placement plan prior to concrete installation when temperatures fall below 40 degrees Fahrenheit during the protection period as defined in ACI 306R-10.
18. Hot Weather Placement: Comply with ACI 318 reference ACI 305R-1 and as follows:
    a. Protect concrete work from physical damage or reduced strength that could be caused by high ambient temperature, high concrete temperature, low relative humidity, and wind speed.
    b. Maintain concrete temperature below 90 deg F (32 deg C) at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
    c. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

D. SHORING

1. Prior to demolition, Contractor to install shoring for existing steel beams and brick arch at landing to remain. Shoring to be designed by an Engineer licensed in the state of Missouri and submitted for approval. Shoring to remain in place during construction.

E. SPECIAL INSPECTION

1. The following tests and inspection shall be performed by an independent inspection agency employed by the owner, coordinated with the contractor, and approved by the structural engineer and the building official. Test and inspection reports shall be submitted to the owner, architect, structural engineer, and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code, as well as conforming to the items listed below.

Special Inspection requirements:	Continuous	Periodic
2. Reinforced concrete – 2018 IBC Table 1705.3		
a. Verification of required mix design.		X
b. Sampling concrete, compressive strength cylinders, slump, air content.		X
c. Inspection of concrete placement.	X	
d. Inspection of curing techniques.		X

THIS PROJECT IS UNDER REVIEW BY THE MISSOURI STATE HISTORIC PRESERVATION OFFICE AND THERE ARE TO BE NO DEVIATIONS FROM THE APPROVED DOCUMENTS WITHOUT PRIOR WRITTEN APPROVAL THAT CHANGES ARE IN COMPLIANCE WITH SHPO AND THE SECRETARY OF INTERIOR STANDARDS.

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STATE OF MISSOURI
P.D. STEED
NUMBER PE-2016001300
PROFESSIONAL ENGINEER
1/31/23

P.D. STEED - Engineer
MO# E-2016001300
Missouri Certificate Of Authority
Number 000396

DATE: 01/31/2023

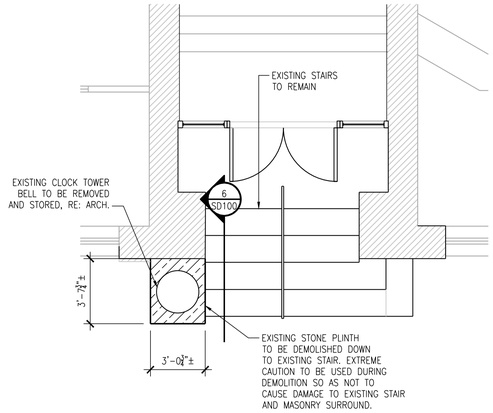
REVISION & DATE:

GENERAL NOTES

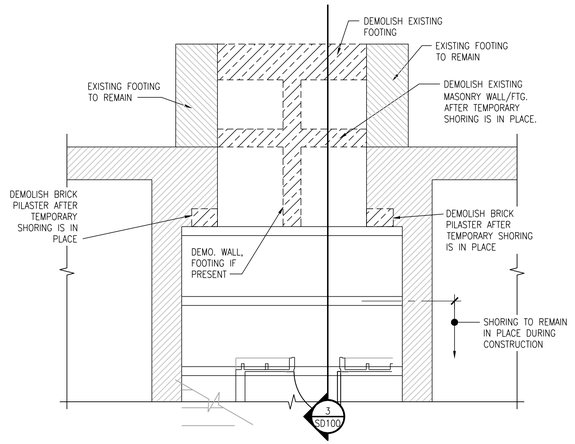
SHEET NUMBER:

S000

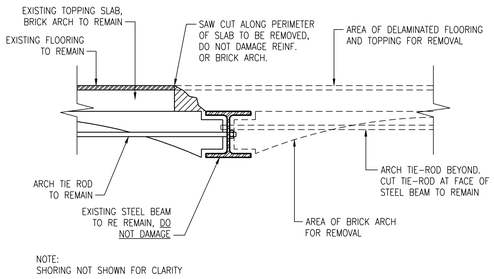
PLOT DATE:Tuesday, January 31, 2023 FILE NAME:G:\2021088\DRAWINGS\2021088 S000.DWG



5 EAST STAIR PLINTH DEMOLITION PLAN
1/4" = 1'-0"



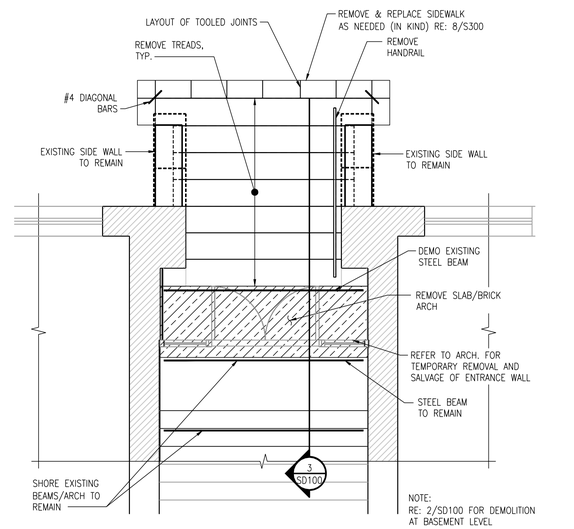
2 WEST STAIR BASEMENT LEVEL DEMOLITION PLAN
1/4" = 1'-0"



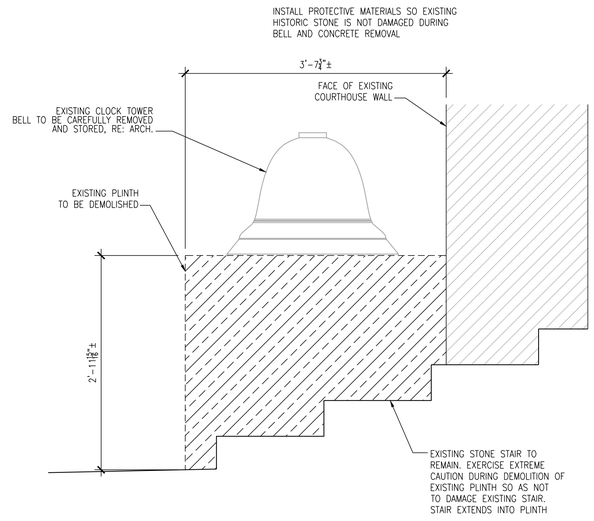
NOTE:
SHORING NOT SHOWN FOR CLARITY

NOTES:
- PRIOR TO DEMOLITION INSTALL SHORING BELOW BRICK ARCH TO REMAIN AND STEEL BEAM TO REMAIN.
- PRIOR TO DEMOLITION OF SLAB PERFORM EXPLORATORY DEMOLITION TO EXPOSE CONDITION OF STEEL BEAM TO REMAIN. PERFORM DEMOLITION IN PRESENCE OF REPRESENTATIVE OF E.O.R. PERFORM EXPLORATORY DEMOLITION AT BEAM SUPPORTS AT EACH TIE ROD LOCATION AND OTHER LOCATIONS AS DIRECTED BY REPRESENTATIVE OF E.O.R.

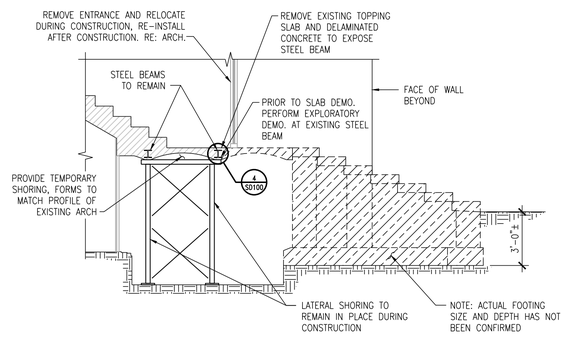
4 DEMO DETAIL AT EXISTING STEEL BEAM
1 1/2" = 1'-0"



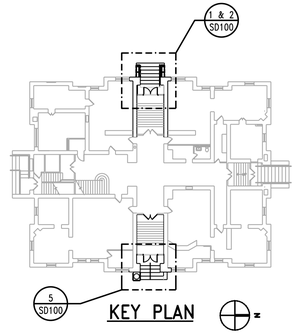
1 WEST STAIR DEMOLITION PLAN
1/4" = 1'-0"



6 DEMO SECTION AT STONE PLINTH
1" = 1'-0"



3 WEST STAIR DEMOLITION SECTION
1/4" = 1'-0"



KEY PLAN

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STATE OF MISSOURI P.D. STEED NUMBER PE-2016001300 PROFESSIONAL ENGINEER 1/31/23

P.D. STEED - Engineer
MO# E-2016001300
Missouri Certificate Of Authority
Number 000396

DATE: 01/31/2023

REVISION & DATE:

REPLACEMENT PLANS & DETAILS

SHEET NUMBER:

SD100

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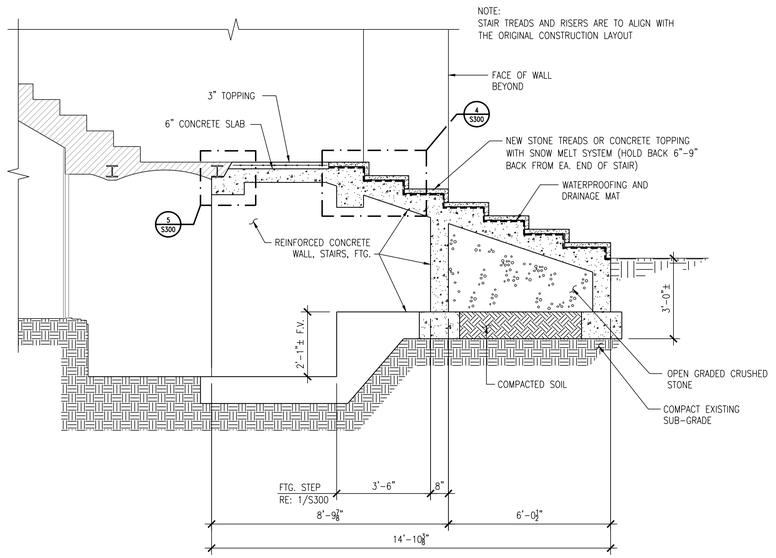
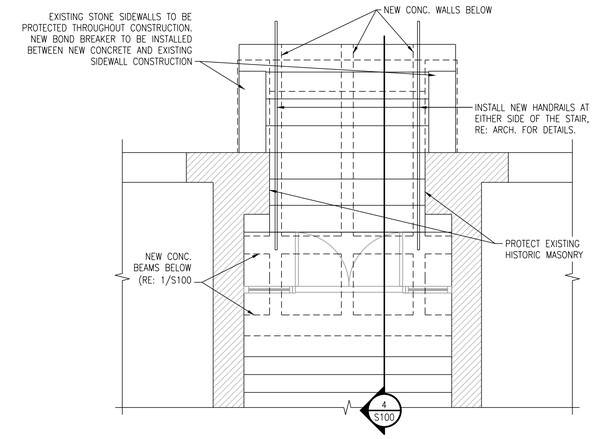
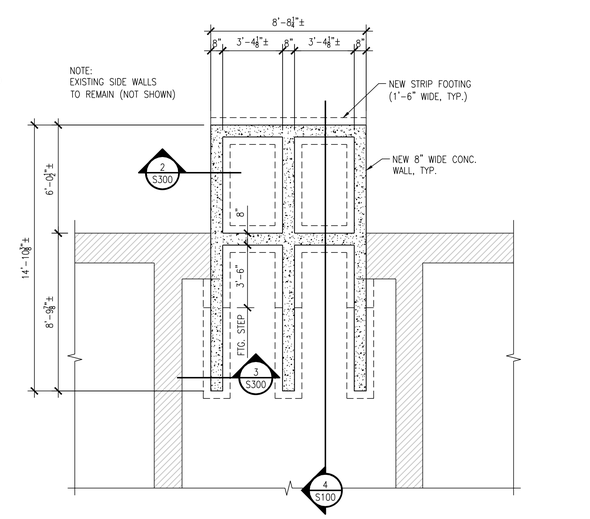


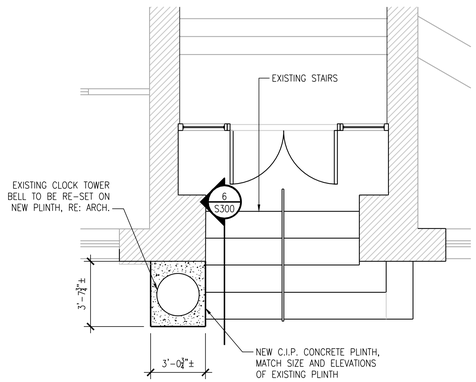
4 NEW WEST STAIR SECTION
3/8" = 1'-0"



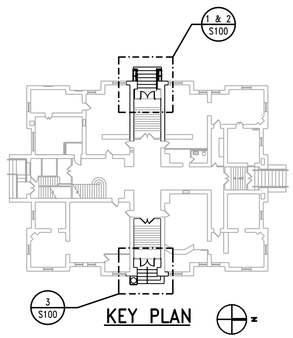
2 NEW WEST STAIR PLAN
1/4" = 1'-0"



1 NEW WEST STAIR FOOTING PLAN
1/4" = 1'-0"



3 EAST STAIR NEW PLINTH PLAN
1/4" = 1'-0"



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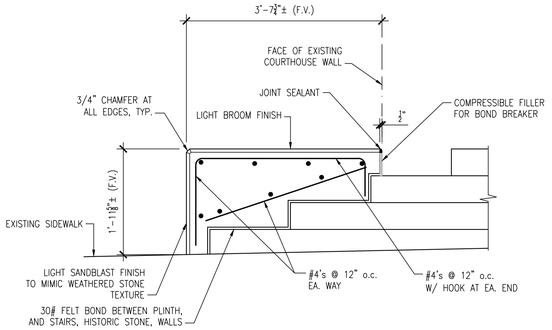
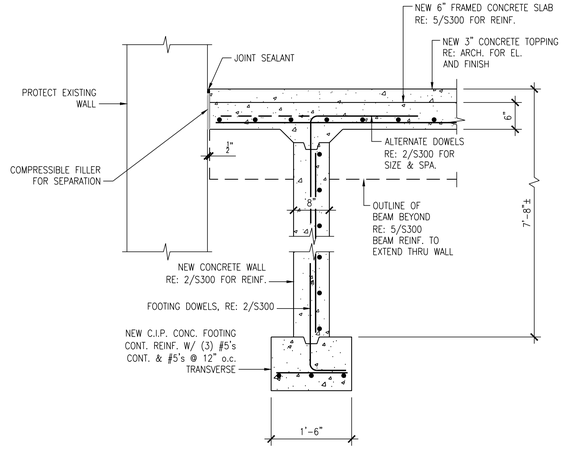


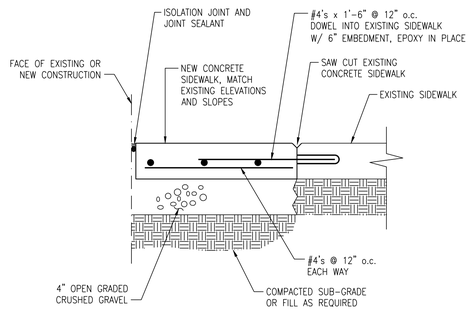
NOTES:

- FIELD MEASURE AND LOCATE EXISTING PLINTH PRIOR TO DEMOLITION.
- DEMO PLINTH IN A MANOR THAT EXISTING STAIRS AND SIDEWALK WILL NOT BE DAMAGED.
- SALVAGE BELL AND ANCHORAGE DEVICE, RE: ARCH. 2/A050.

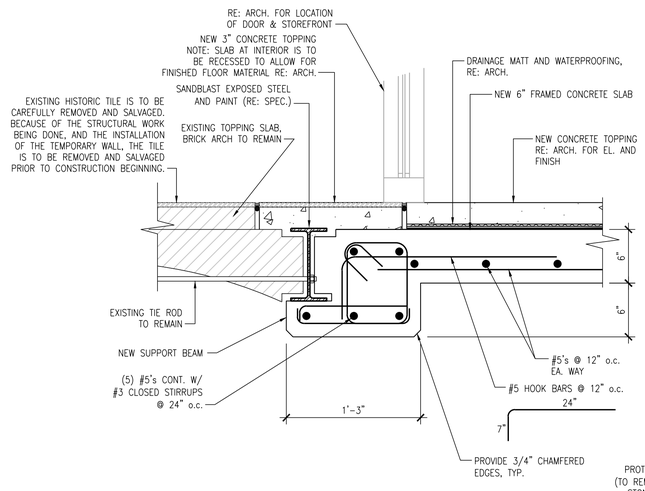
6 SECTION AT NEW PLINTH
3/4" = 1'-0"



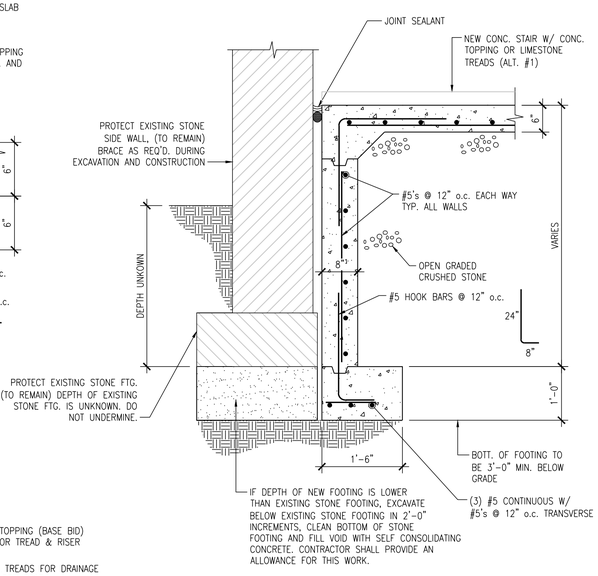
3 NEW WALL / SLAB SECTION
3/4" = 1'-0"



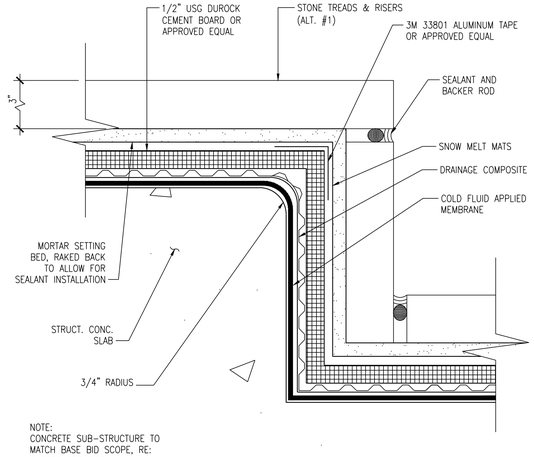
8 SECTION AT SIDEWALK REPLACEMENT
1 1/2" = 1'-0"



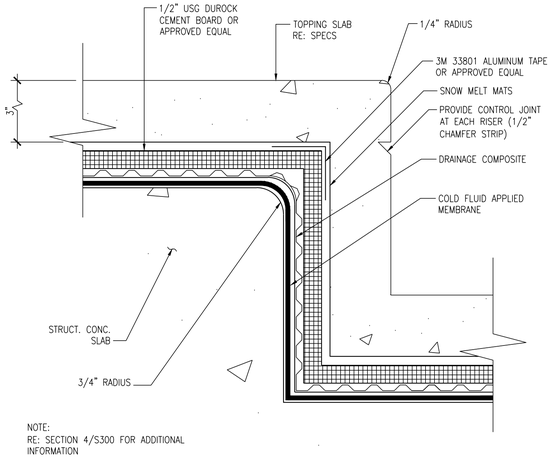
5 NEW BEAM AT EXISTING SLAB
1 1/2" = 1'-0"



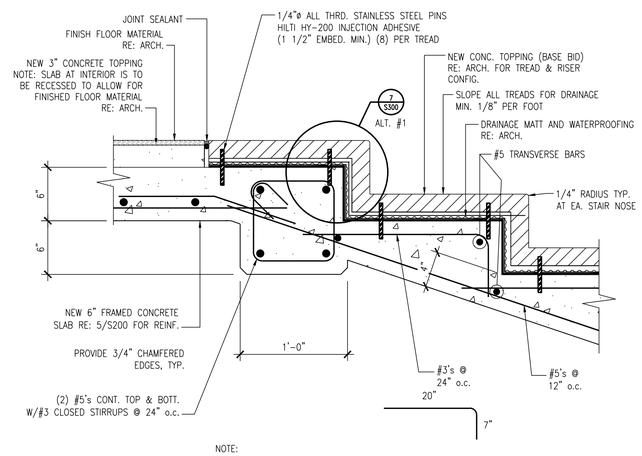
2 STAIR WALL SECTION
3/4" = 1'-0"



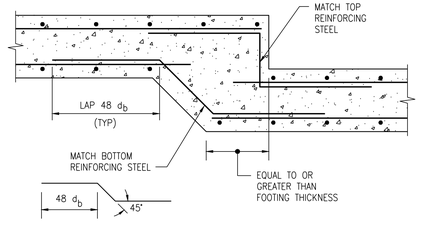
7 STAIR DETAIL (ALT. #1)
NTS



7 STAIR DETAIL (BASE BID)
NTS



4 NEW BEAM AT TOP OF STAIRS (BASE BID)
1 1/2" = 1'-0"



1 TYP. FOOTING STEP
N.T.S.

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ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2#12 1#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR
- HOME RUN: INDICATES SHARED CIRCUIT
- HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES

- UGE — UNDERGROUND ELECTRICAL
- OHE — OVERHEAD ELECTRICAL
- TELE — TELECOMMUNICATIONS CONDUIT
- UGT — UNDERGROUND TELECOMMUNICATIONS CONDUIT

LIGHTING

- GRID-MOUNTED TROFFER LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- POLE-MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
- BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
- WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
- LIGHT SWITCH – SINGLE POLE
- 3 LIGHT SWITCH – 3-WAY
- 4 LIGHT SWITCH – 4-WAY
- K LIGHT SWITCH – KEY
- D LIGHT SWITCH – DIMMER
- PL LIGHT SWITCH – PILOT LIGHT
- $2P$ LIGHT SWITCH – 2 POLE
- 3^{D} LIGHT SWITCH – 3-WAY DIMMER
- M WALL-MOUNTED MOTION SWITCH
- (M) CEILING-MOUNTED MOTION SWITCH
- SB SWITCHBANK – REFER TO DETAILS
- FD1 DIMMER BOARD
- RCS-1 REMOTE CONTROL SWITCH AS SCHEDULED
- TC TIMECLOCK – REFER TO PLANS / DETAILS

EQUIPMENT

- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER
- TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD
- RECESSED PANELBOARD
- DISTRIBUTION PANELBOARD
- SWITCHBOARD. FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION
- XXX EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

POWER DEVICES

- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- GFI SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
- QUADPLEX RECEPTACLE
- 5-50R SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED
- 5-50R MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
- CEILING MOUNTED RECEPTACLE
- RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"
- POKE-THRU WITH POWER
- POKE-THRU WITH TELECOMMUNICATIONS
- POKE-THRU W/POWER AND TELECOM
- FB FLOOR BOX
- DIVIDED POWER POLE
- C CLOCK RECEPTACLE
- PLUG MOLD / WIRE MOLD AS SPECIFIED
- J JUNCTION BOX
- PUSH BUTTON
- MOTOR

TELEPHONE/DATA

- TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
- TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)
- 1V PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- 1D DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- 1D/1V PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- (W) WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
- (W) CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

AUDIO/VISUAL

- (TV) TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- (TR) REVERSE TELEVISION OUTLET – CABLE TO HEAD END
- (AV) RECESSED COMBINATION AV AND POWER OUTLET COORD LOCATION OF DEVICE WITH TV MOUNT
- TDC TEACHER'S DESK CONNECTIONS – RE: DETAILS
- (S) WALL SPEAKER
- (S) CEILING SPEAKER
- $(S)_{SUB}$ CEILING SPEAKER – SUBWOOFER
- $(S)_{SS}$ CEILING SPEAKER – SOUND SYSTEM
- (V) VOLUME CONTROL
- SOUND SYSTEM AUDIO JACK
- RM REMOTE MICROPHONE CONTROL

COMMUNICATIONS SYMBOLS

- I INTERCOM CALL STATION
- INTERCOM HANDSET
- PAS PUBLIC ADDRESS SYSTEM AMPLIFIER
- IMS INTERCOM MASTER STATION
- (S) WALL SPEAKER – HORN TYPE
- (S) CEILING SPEAKER – HORN TYPE
- ECS ELEVATOR 2-WAY COMMUNICATION STATION
- ECM ELEVATOR 2-WAY COMMUNICATION MASTER STATION
- ECSP ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY

FIRE ALARM

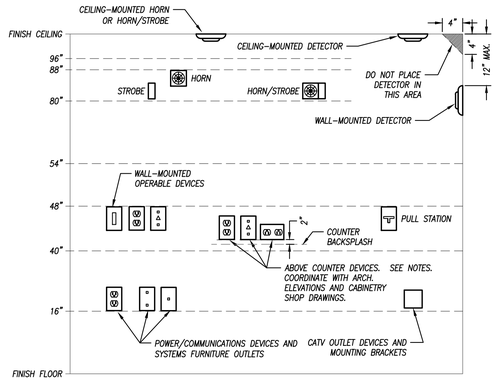
- F MANUAL PULL STATION
- (D) CEILING SMOKE DETECTOR
- (D) DUCT SMOKE DETECTOR
- (H) HEAT DETECTOR
- WF WATERFLOW SWITCH
- TS TAMPER SWITCH
- 75 WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd RATING UNLESS OTHERWISE NOTED ON PLANS.
- WALL-MOUNTED FA HORN
- WALL-MOUNTED FA SPEAKER
- 30 WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
- 30 WALL-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
- 75 CEILING-MOUNTED FA STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- CEILING-MOUNTED FA SPEAKER.
- 30 CEILING-MOUNTED FA HORN/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- 30 CEILING-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- R RELAY
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FARA REMOTE ANNUNCIATOR PANEL
- FAEC FIRE ALARM EXTENDER CABINET
- DH DOOR HOLDER
- $(D)_{120V}$ SINGLE / MULTI-STATION 120V SMOKE ALARM
- ZAM ZONE ADDRESSABLE MODULE
- IAM INDIVIDUAL ADDRESSABLE MODULE
- HFSS KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL
- H KITCHEN HOOD REMOTE PULL STATION
- ARA AREA OF RESCUE ASSISTANCE STATION
- ARAM AREA OF RESCUE ASSISTANCE MASTER STATION

NURSE CALL

- (N) NURSE CALL STATION
- (PC) NURSE CALL EMERGENCY PULL CORD
- (CB) CODE BLUE STATION
- (SS) NURSE CALL STAFF STATION
- (DB) NURSE CALL DUAL PUSHBUTTON STATION (CODE BLUE / STAFF ASSIST)
- (PM) PATIENT MONITOR STATION
- (DS) NURSE CALL DUTY STATION
- (DL) NURSE CALL DOME LIGHT
- (ZL) NURSE CALL ZONE LIGHT
- NCM NURSE CALL MASTER STATION
- RCM RESIDENT CALL MASTER STATION
- (PC) RESIDENT CALL EMERGENCY PULL CORD

SECURITY

- FIXED CAMERA
- PTZ PAN/TILT/ZOOM CAMERA
- PROX PROXIMITY TYPE CARD READER
- CARD SWIPE CARD READER
- ES ELECTRIC STRIKE
- KP KEYPAD / MAG LOCK
- B BUTTON / MAG LOCK



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
- PUSH BUTTONS
- NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
- OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
   - 5.2. REFER TO SPECIFICATIONS FOR ALLOWABLE WIRING METHODS THROUGHOUT PROJECT.
   - 5.3. ALL EXPOSED WIRING SHALL BE IN EMT OR METALLIC CONDUIT, EXCEPT AS PERMITTED BY SPECIFICATIONS FOR WHIPS TO EQUIPMENT.
6. ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
   - 6.1. CONTRACTOR SHALL INCLUDE A DEDUCT ALTERNATE FOR USE OF SAME WITH BIDS, FOR OWNER ACCEPTANCE.
   - 6.2. AL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER – NO EXCEPTIONS.
   - 6.3. ALUMINUM CABLING SHALL BE COMPACTED ALUMINUM (STABLOY).
   - 6.4. PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
   - 6.5. PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
   - 6.6. CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
   - 6.7. FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
   - 6.8. ALUMINUM SERVICE CONDUCTORS MUST HAVE "AA-8000" SERIES LABELING ON CABLE JACKETS PER EVERGY REQUIREMENTS – NO EXCEPTIONS.

ENGINEER RESERVES FINAL RIGHT TO ACCEPT/DENY USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT/ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK REQUIRING ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES - DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
13. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

GEN. RENOVATION NOTES

1. DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
2. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.
4. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
5. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
7. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.
8. ALL LIGHTING FIXTURES THAT ARE RELOCATED OR OTHERWISE AFFECTED BY THE SCOPE OF WORK SHALL BE CLEANED AND RELAMPED.

DEMOLITION NOTES

1. ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.
2. REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.
3. ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.
4. COORDINATE ALL DEMOLITION WORK WITH OWNER.
5. CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.
6. MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC, SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER.
7. CONTRACTOR SHALL REMOVE LAY-IN CEILINGS, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILINGS SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.
8. THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.
9. NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
10. REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.
11. PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.
12. REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC, THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.
13. PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNERS SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
14. PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.
15. REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.
16. SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.
17. SAVE, CLEAN, AND RE-LAMP ALL LIGHT FIXTURES NOTED AS BEING RELOCATED. REFER TO NEW WORK PLANS AND LIGHT FIXTURE SCHEDULE FOR DESCRIPTIONS, QUANTITIES, AND LOCATIONS OF FIXTURES TO BE RE-USED.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE
AFG	ABOVE FINISHED GRADE	EWT	ENTERING WATER TEMPERATURE
AG	ABOVE GRADE	EX	EXISTING ITEM
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT
BFP	BACKFLOW PREVENTER	FGCO	FLUSH GRADE CLEAN OUT
BG	BELOW GRADE	FL	FLOW LINE
BLDG	BUILDING	FLR	FLOOR
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION
C	CONDUIT	FPM	FEET PER MINUTE
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT
CD	COLD DECK	G	GROUND / GANG
CLG	COOLING	G/C	GENERAL CONTRACTOR
CM	COORDINATE MOUNTING HEIGHT	GFI	GROUND FAULT CIRCUIT INTERUPTER
CO	CLEAN OUT	GFIP	GFI-PROTECTED DEVICE
CTE	CONNECT TO EXISTING	GPM	GALLONS PER MINUTE
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HD	HOT DECK
DCW	DOMESTIC COLD WATER	HTG	HEATING
DDC	DIRECT DIGITAL CONTROLS	IG	ISOLATED GROUND
DF	DRINKING FOUNTAIN	JB	JUNCTION BOX
DHW	DOMESTIC HOT WATER	LED	LIGHT EMITTING DIODE
DHWR	DOMESTIC HOT WATER RETURN	LWT	LEAVING WATER TEMPERATURE
DIA	DIAMETER	M/C	MECHANICAL CONTRACTOR
DN	DOWN	MA	MIXED AIR
E/C	ELECTRICAL CONTRACTOR	MAU	MAKE UP AIR UNIT
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER
EDF	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL
		MH	MANHOLE
		MLO	MAIN LUGS ONLY
		NFA	NET FREE AREA
		NL	NIGHT LIGHT
		OA	OUTSIDE AIR
		ORD	OVERFLOW ROOF DRAIN
		P/C	PLUMBING CONTRACTOR
		PSI	POUNDS PER SQUARE INCH
		PVC	POLYVINYLCHLORIDE
		RA	RETURN AIR
		RE/REF	REFER / REFERENCE
		RF	RELIEF FAN
		RL	RELOCATED ITEM
		RPZ	REDUCED PRESSURE ZONE
		RR	RESTROOM
		SA	SUPPLY AIR
		SPD	SURGE PROTECTIVE DEVICE
		ST	SHUNT TRIP
		TA	TRANSFER AIR
		TFA	TO FLOOR ABOVE
		TFB	TO FLOOR BELOW
		TP	TAMPERPROOF
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VRF	VARIABLE REFRIGERANT FLOW
		VTR	VENT THROUGH ROOF
		WCO	WALL CLEANOUT
		WG	WIRE GUARD
		WP	WEATHERPROOF

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
6. PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

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23.002

JOHNSON CO COURTHOUSE

EAST AND WEST ENTRANCES

300 NORTH HOLDEN STREET

WARRENSBURG, MISSOURI 64093

STATE OF MISSOURI
DAVID LAWRENCE DEATHERAGE
NUMBER E-29880
REGISTERED PROFESSIONAL ENGINEER
David Lawrence Deatherage - Engineer
MO# E-29880
12/1/23

DATE: FEBRUARY 22, 2023

REVISION & DATE:

COVER SHEET

SHEET NUMBER:

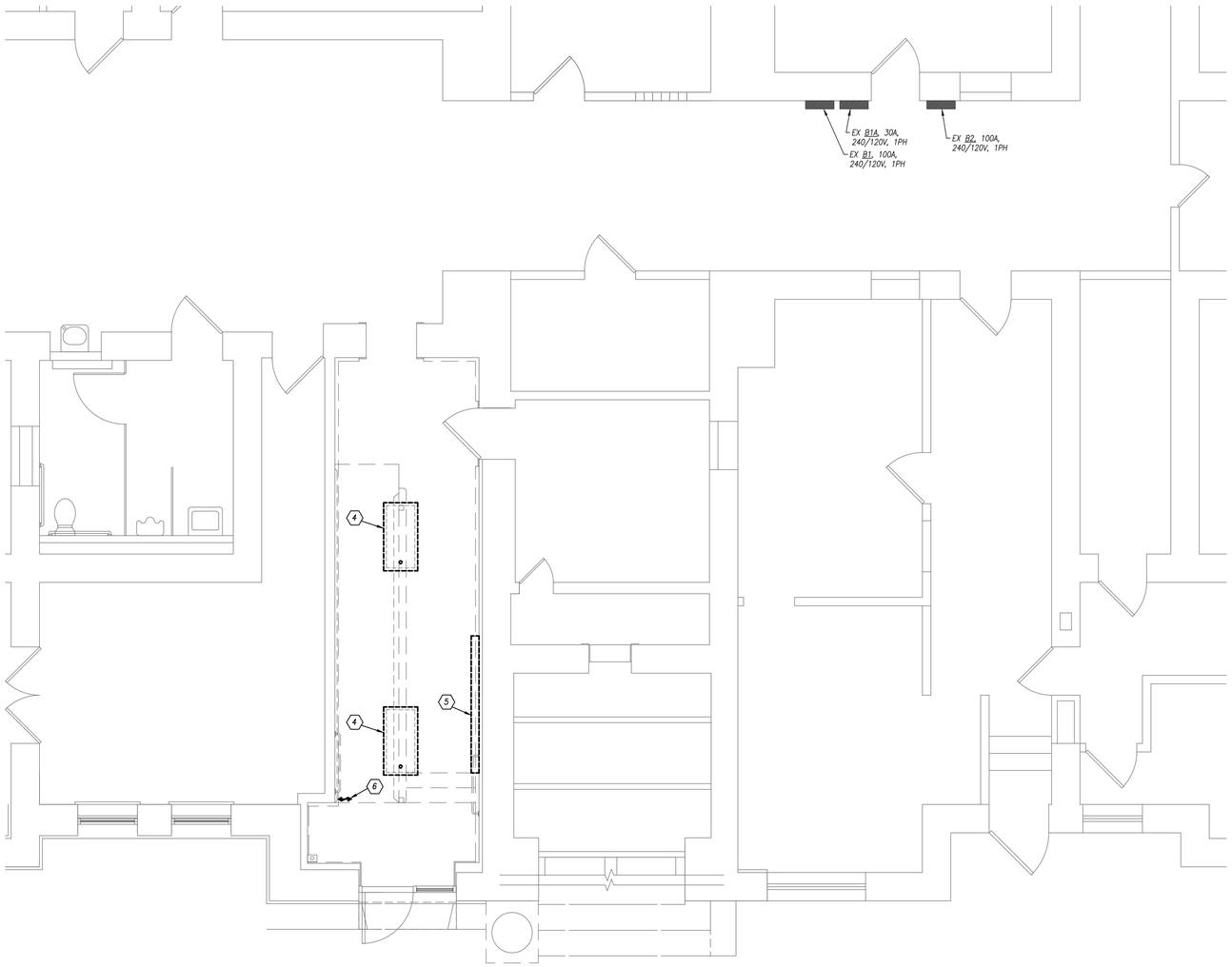
E000

GENERAL DEMOLITION NOTES

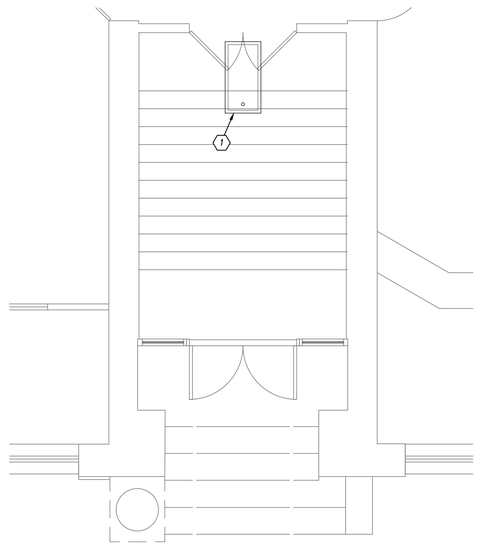
1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

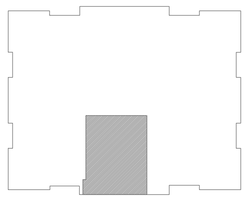
1. EXISTING DEVICE/LIGHT FIXTURE/ROUGH-IN TO REMAIN.
2. EXISTING DEVICE TO BE REMOVED. REMOVE DEVICE, ROUGH-IN, CONDUIT AND CONDUCTORS.
3. EXISTING SECURITY PANEL TO BE RECONFIGURED TO PROVIDE HARD WIRED CONNECTION IN LIEU OF PLUG-IN TRANSFORMER. PROVIDE 120V CIRCUITING INTO CABINET. COORDINATE WITH OWNER'S SECURITY PROVIDER.
4. EXISTING 2'X4' LAY-IN GRID TROFFER TO BE TAKEN DOWN, CLEANED, RE-LAMPED, TESTED FOR PROPER OPERATION, AND RE-INSTALLED IN NEW CEILING UNDER NEW WORK.
5. EXISTING SILL HEATER TO BE RELOCATED UNDER NEW WORK.
6. EXISTING DEVICE TO BE REPLACED IN NEW WALL CONSTRUCTION UNDER NEW WORK.



BASEMENT ENLARGED PLAN
EAST ENTRANCE ELECTRICAL DEMO
1/4" = 1'-0"



FIRST FLOOR ENLARGED PLAN
EAST ENTRANCE ELECTRICAL DEMO
1/4" = 1'-0"



KEY PLAN

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STATE OF MISSOURI
DAVID LAWRENCE DEATHERAGE
NUMBER E-29880
REGISTERED PROFESSIONAL ENGINEER
David Lawrence Deatherage - Engineer
MO# E-29880
2/24/23

DATE: FEBRUARY 22, 2023
REVISION & DATE:

EAST DEMO ELECTRICAL
SHEET NUMBER:

E001

GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

1. EXISTING DEVICE/LIGHT FIXTURE/ROUGH-IN TO REMAIN.
2. EXISTING DEVICE TO BE REMOVED. REMOVE DEVICE, ROUGH-IN, CONDUIT AND CONDUCTORS.
3. EXISTING SECURITY PANEL TO BE RECONFIGURED TO PROVIDE HARD WIRED CONNECTION IN LIEU OF PLUG-IN TRANSFORMER. PROVIDE 120V CIRCUITING INTO CABINET. COORDINATE WITH OWNER'S SECURITY PROVIDER.
4. EXISTING 2'X4' LAY-IN GRID TROFFER TO BE TAKEN DOWN, CLEANED, RE-LAMPED, TESTED FOR PROPER OPERATION, AND RE-INSTALLED IN NEW CEILING UNDER NEW WORK.
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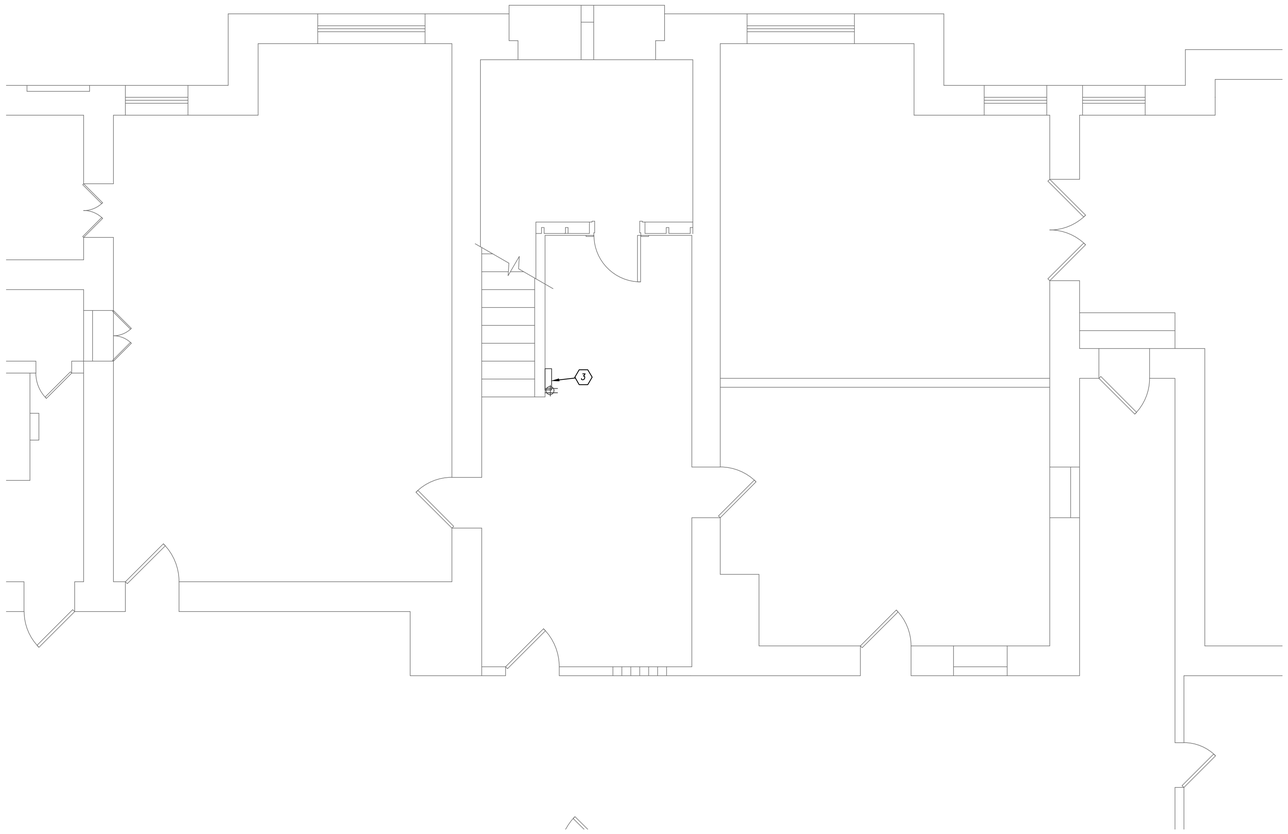
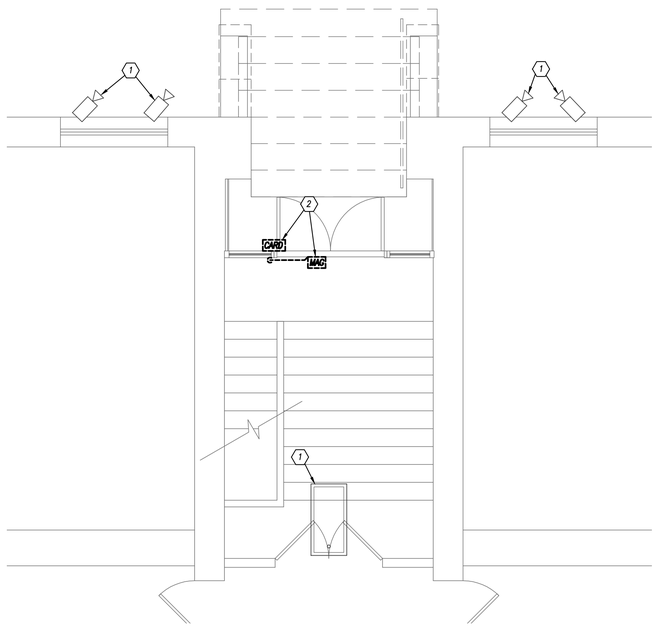
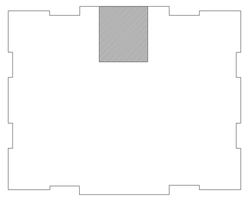


BASEMENT ENLARGED PLAN
WEST ENTRANCE ELECTRICAL DEMO
1/4" = 1'-0"



FIRST FLOOR ENLARGED PLAN
WEST ENTRANCE ELECTRICAL DEMO
1/4" = 1'-0"



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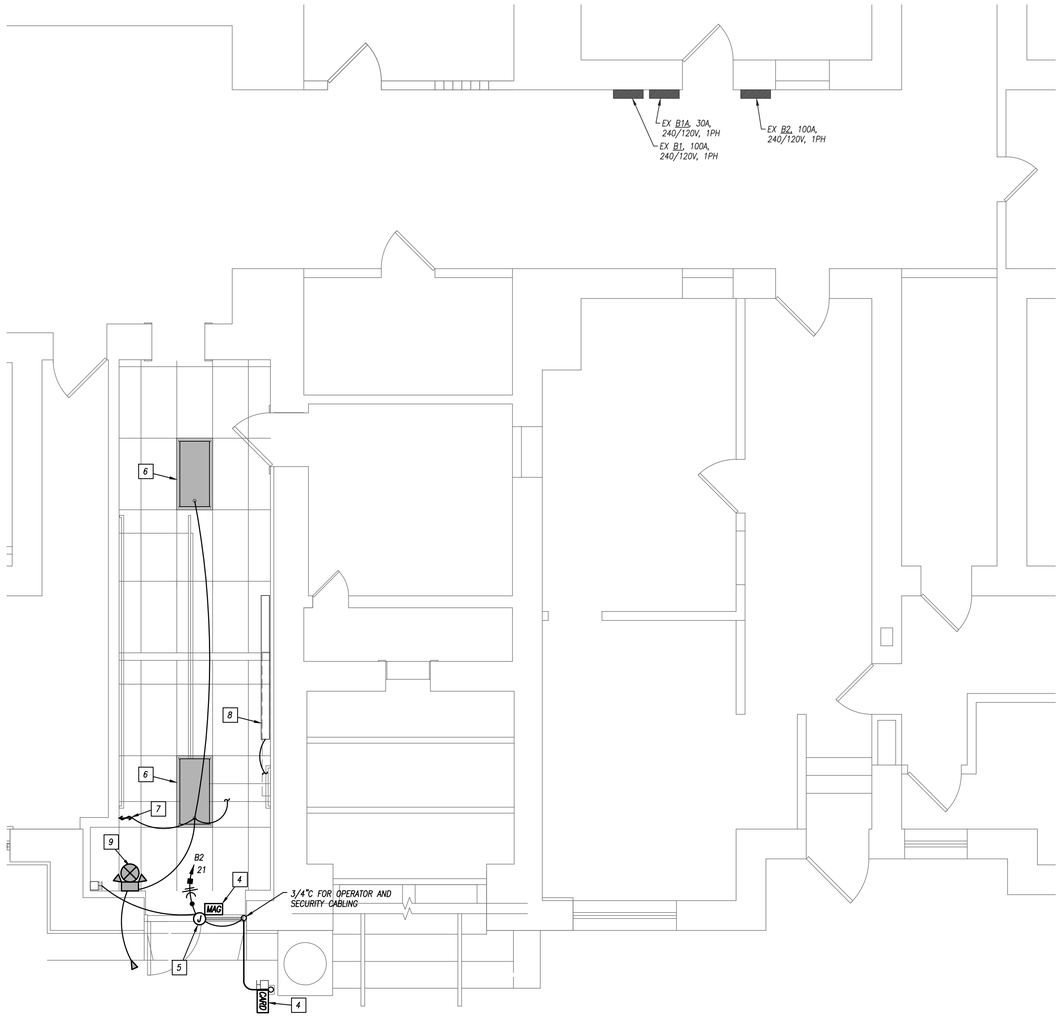

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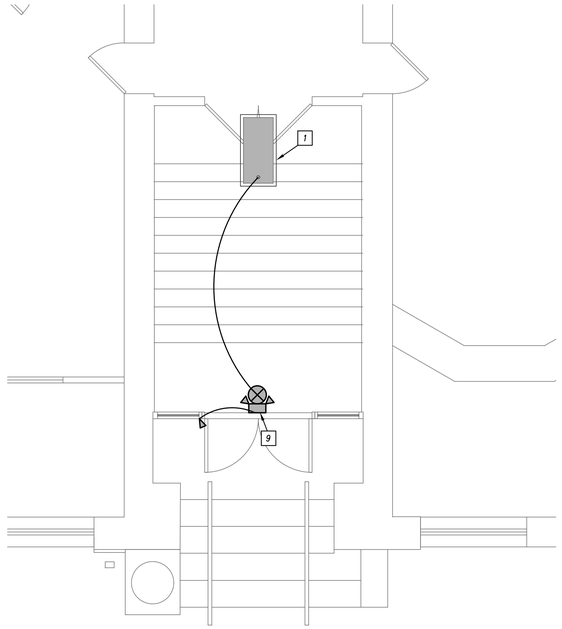


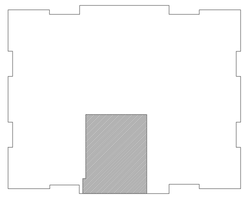
FIRST FLOOR ENLARGED PLAN
EAST ENTRANCE ELECTRICAL
1/4" = 1'-0"

GENERAL ELECTRICAL NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

ELECTRICAL PLAN KEYED NOTES

1. EXISTING TO REMAIN. VERIFY CIRCUIT CONTINUITY.
2. PROVIDE 120V HARD WIRE CONNECTION TO SECURITY PANEL. COORDINATE WITH SECURITY SYSTEM PROVIDER.
3. PROVIDE IN-SLAB ELECTRIC ICE MELT SYSTEM. (SUN TOUCH PROMELT CABLE SYSTEM WITH TEMPERATURE AND MOISTURE SENSING.) BASE BID SHALL INCLUDE THE FOLLOWING:
   1. PROMELT CABLE, SUN TOUCH #SC502080 SERIES, APPROXIMATE LENGTH 297', SPLIT INTO TWO CIRCUITS AS SHOWN ON DRAWING. 208V, 1PH CABLE, CABLES LAID ON 4" CENTERS (38W/FT2) ON STAIR TREADS.
   2. SUN TOUCH PM-5X CONTROLLER WITH MOISTURE AND TEMPERATURE SENSOR, 2-CIRCUIT CONTROL, 60 AMP RATED, IN WEATHERPROOF JUNCTION BOX. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT AND HEIGHT TO AVOID SNOW DRIFTING AT BUILDING.
   3. PROVIDE 2#10, #10G, 1/2"C FROM EACH SECTION OF SNOW MELT CABLE TO CONTROLLER, AND THEN 4#10, #10G, 3/4"C FROM CONTROLLER TO STUB-IN TO BASEMENT UNDER STAIRS. NOTE THAT POWER IS NOT AVAILABLE AT THIS TIME FOR PERMANENT CONNECTION. PROVIDE TEMP POWER TO VERIFY INSTALLATION. COIL CABLE AND LABEL FOR EXTENSION TO PERMANENT POWER UNDER FUTURE CONTRACT.
4. PROVIDE ROUGH-IN FOR SECURITY HARDWARE. REFER TO DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION. ROUTE LOW VOLTAGE CABLING TO BASEMENT SECURITY PANEL IN STOREFRONT SYSTEM IF POSSIBLE. PROVIDE WIREMOLD SURFACE METALLIC RACEWAY WHERE EXPOSED. PROVIDE 1/2" CONDUIT STUBBED INTO BASEMENT FOR CABLING.
5. PROVIDE ELECTRICAL CONNECTION TO ADA POWER ASSIST DOOR. CONNECT TO NEW 1P-20A CIRCUIT BREAKER IN PANEL B2. PROVIDE CONDUIT AND CONDUCTORS TO SUPPORT THE POWER ASSIST DOOR OPERATOR INDOORS AND THE PEDESTAL MOUNTED OPERATOR OUTDOORS. COORDINATE EXACT ROUTING IN FIELD.
6. RELOCATE EXISTING 2'X4' FIXTURES TO NEW LAY IN CEILING AND RECONNECT TO EXISTING CONTROLLED CIRCUIT.
7. PROVIDE WALL CONTROL FOR HALLWAY LIGHTS IN NEW WALL. CONNECT TO EXISTING CIRCUITING.
8. RELOCATE EXISTING HEATER TO NEW LOCATION. EXTEND CONDUIT AND CONDUCTORS TO NEW LOCATION.
9. PROVIDE NEW COMBO EXIT/EGRESS FIXTURE WITH RED LETTERS AND LED LIGHT BAR. UNIVERSAL CANOPY MOUNT. INTEGRAL BATTERY FOR 90 MINUTES OF OPERATION AND REMOTE WEATHERPROOF HEAD. (THE EXIT LIGHT CO. #COMBOLP). REMOTE HEAD SHALL BE TWO HEAD, WEATHERPROOF, WHITE OR BLACK FINISH BY ARCHITECT, COMPATIBLE WITH EXIT FIXTURE. (THE EXIT LIGHT CO. #RHB-WPL-X-DH-MV). CONNECT TO UNSWITCHED HOT LIGHTING CIRCUIT SERVING AREA.
10. PROVIDE 18" TALL BOLLARD WITH INTEGRAL GFCI RECEPTACLE AND WEATHERPROOF IN-USE COVER. PROVIDE CONCRETE BASE FOR MOUNTING. STANDARD FINISH BY ARCHITECT. BK LIGHTING #RB-18-RE1 SERIES.



KEY PLAN

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23.002

JOHNSON CO COURTHOUSE
EAST AND WEST ENTRANCES
300 NORTH HOLDEN STREET
WARRENSBURG, MISSOURI 64093

STATE OF MISSOURI
DAVID LAWRENCE DEATHERAGE
NUMBER E-29880
REGISTERED PROFESSIONAL ENGINEER
2/22/23
David Lawrence Deatherage - Engineer
MO# E-29880

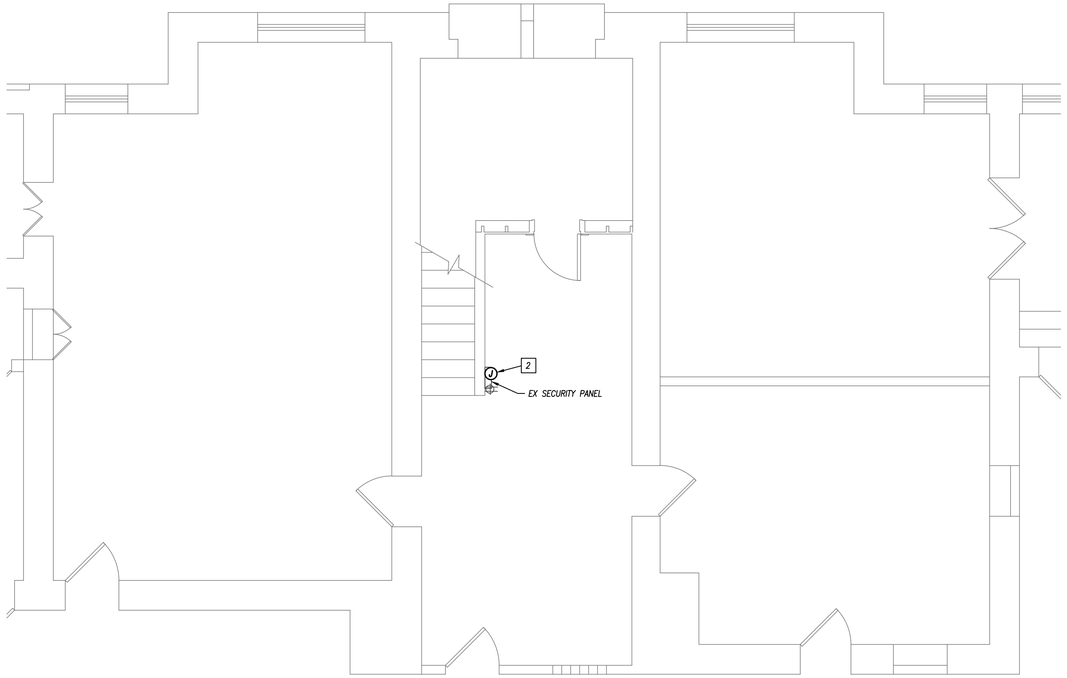
DATE: FEBRUARY 22, 2023

REVISION & DATE:

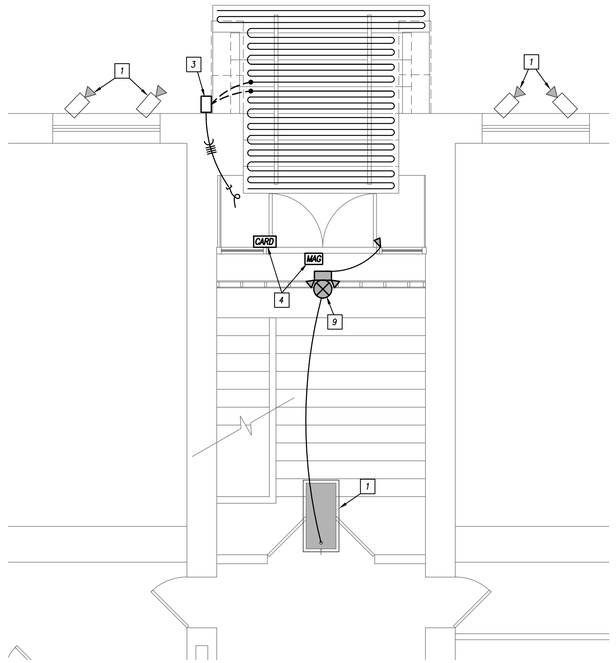
EAST ENTRANCE ELECTRICAL

SHEET NUMBER:

E101



BASEMENT ENLARGED PLAN
WEST ENTRANCE ELECTRICAL
1/4" = 1'-0"



FIRST FLOOR ENLARGED PLAN
WEST ENTRANCE ELECTRICAL
1/4" = 1'-0"

GENERAL ELECTRICAL NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

ELECTRICAL PLAN KEYED NOTES

1 EXISTING TO REMAIN. VERIFY CIRCUIT CONTINUITY.

2 PROVIDE 120V HARD WIRE CONNECTION TO SECURITY PANEL. COORDINATE WITH SECURITY SYSTEM PROVIDER.

3 PROVIDE IN-SLAB ELECTRIC ICE MELT SYSTEM. (SUN TOUCH PROMELT CABLE SYSTEM WITH TEMPERATURE AND MOISTURE SENSING.) BASE BID SHALL INCLUDE THE FOLLOWING:

1. PROMELT CABLE, SUN TOUCH #SC502080 SERIES, APPROXIMATE LENGTH 297', SPLIT INTO TWO CIRCUITS AS SHOWN ON DRAWING. 208V, 1PH CABLE, CABLES LAID ON 4" CENTERS (38W/FT2) ON STAIR TREADS.
2. SUN TOUCH PM-5X CONTROLLER WITH MOISTURE AND TEMPERATURE SENSOR, 2-CIRCUIT CONTROL, 60 AMP RATED, IN WEATHERPROOF JUNCTION BOX. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT AND HEIGHT TO AVOID SNOW DRIFTING AT BUILDING.
3. PROVIDE 2#10, #10G, 1/2"C FROM EACH SECTION OF SNOW MELT CABLE TO CONTROLLER, AND THEN 4#10, #10G, 3/4"C FROM CONTROLLER TO STUB-IN TO BASEMENT UNDER STAIRS. NOTE THAT POWER IS NOT AVAILABLE AT THIS TIME FOR PERMANENT CONNECTION. PROVIDE TEMP POWER TO VERIFY INSTALLATION. COIL CABLE AND LABEL FOR EXTENSION TO PERMANENT POWER UNDER FUTURE CONTRACT.

4 PROVIDE ROUGH-IN FOR SECURITY HARDWARE. REFER TO DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION. ROUTE LOW VOLTAGE CABLING TO BASEMENT SECURITY PANEL IN STOREFRONT SYSTEM IF POSSIBLE. PROVIDE WIREMOLD SURFACE METALLIC RACEWAY WHERE EXPOSED. PROVIDE 1/2" CONDUIT STUBBED INTO BASEMENT FOR CABLING.

5 PROVIDE ELECTRICAL CONNECTION TO ADA POWER ASSIST DOOR. CONNECT TO NEW 1P-20A CIRCUIT BREAKER IN PANEL B2. PROVIDE CONDUIT AND CONDUCTORS TO SUPPORT THE POWER ASSIST DOOR OPERATOR INDOORS AND THE PEDESTAL MOUNTED OPERATOR OUTDOORS. COORDINATE EXACT ROUTING IN FIELD.

6 RELOCATE EXISTING 2'X4' FIXTURES TO NEW LAY IN CEILING AND RECONNECT TO EXISTING CONTROLLED CIRCUIT.

7 PROVIDE WALL CONTROL FOR HALLWAY LIGHTS IN NEW WALL. CONNECT TO EXISTING CIRCUITING.

8 RELOCATE EXISTING HEATER TO NEW LOCATION. EXTEND CONDUIT AND CONDUCTORS TO NEW LOCATION.

9 PROVIDE NEW COMBO EXIT/EGRESS FIXTURE WITH RED LETTERS AND LED LIGHT BAR. UNIVERSAL CANOPY MOUNT. INTEGRAL BATTERY FOR 90 MINUTES OF OPERATION AND REMOTE WEATHERPROOF HEAD. (THE EXIT LIGHT CO. #COMBOLP). REMOTE HEAD SHALL BE TWO HEAD, WEATHERPROOF, WHITE OR BLACK FINISH BY ARCHITECT, COMPATIBLE WITH EXIT FIXTURE. (THE EXIT LIGHT CO. #RHB-WPL-X-DH-MV). CONNECT TO UNSWITCHED HOT LIGHTING CIRCUIT SERVING AREA.

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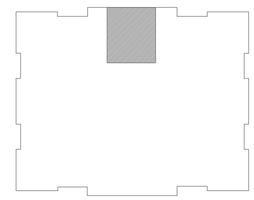

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SHEET NUMBER:

E102

GENERAL ELECTRICAL SPECIFICATIONS

GENERAL ELECTRICAL REQUIREMENTS

1. APPLICABILITY
   - A. THESE GENERAL REQUIREMENTS APPLY TO ALL DIVISIONS (21, 22, 23, 26, 27, 28). REFER TO INDIVIDUAL DIVISIONS AS INCLUDED FOR SPECIFIC INFORMATION REGARDING EACH TRADE OR SCOPE OF WORK.
2. GENERAL REQUIREMENTS
   - A. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
   - B. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
   - C. ALL MATERIALS SHALL BE NEW & SHALL BARE UL LABEL WHERE APPLICABLE.
   - D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
   - E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
   - F. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
   - G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
   - H. REQUIREMENTS UNDER DIVISION ONE & GENERAL & SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED W/ ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OF WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL. EQUIPMENT, APPLIANCES. TRANSPORTATION. SERVICES. & LABOR REQUIRED TO COMPLETE ENTIRE SYSTEM AS REQUIRED BY DRAWINGS & SPECIFICATIONS.
   - I. THE SPECIFICATIONS & DRAWINGS FOR PROJECT ARE COMPLEMENTARY, & PORTIONS OF WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN EVENT OF DISCREPANCIES, NOTIFY ENGINEER & REQUEST CLARIFICATION PRIOR TO PROCEEDING W/ WORK INVOLVED.
3. EXTENT OF CONTRACT WORK
   - A. PROVIDE MEP SYSTEMS INDICATED ON DRAWINGS, SPECIFIED OR REASONABLY IMPLIED. IN ADDITION TO SPECIFIC EQUIPMENT CALLED OUT IN PLANS AND SPECIFICATIONS, PROVIDE EVERY DEVICE, COMPONENT, PROGRAMMING, INTERLOCKING AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF TOTALLY FUNCTIONAL MEP SYSTEMS.
   - B. IN CASE OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR THE GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT OR ENGINEER'S INTERPRETATION.
   - C. IN NO CASE WILL CLAIMS FOR “EXTRA WORK” BE ALLOWED FOR WORK ABOUT WHICH CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.
   - D. CONTRACTOR SHALL BECOME FAMILIAR WITH EQUIPMENT PROVIDED BY OTHER CONTRACTORS THAT REQUIRE PLUMBING CONNECTIONS AND CONTROLS.
   - E. ELECTRICAL WORK REQUIRED TO INSTALL AND CONTROL PLUMBING EQUIPMENT, WHICH IS NOT SHOWN ON PLANS OR SPECIFIED UNDER DIVISION 26, SHALL BE INCLUDED IN CONTRACTOR'S BASE BID PROPOSAL.
   - F. THE COST OF LARGER WIRING, CONDUIT, CONTROL AND PROTECTIVE DEVICES RESULTING FROM INSTALLATION OF EQUIPMENT WHICH WAS NOT USED FOR BASIS OF DESIGN AS OUTLINED IN SPECIFICATIONS SHALL BE PAID FOR BY THE SUPPLYING CONTRACTOR AT NO COST TO OWNER OR ARCHITECT ENGINEER.
   - G. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPERVISION TO OTHER TRADE CONTRACTORS TO INSURE THAT REQUIRED CONNECTIONS, INTERLOCKING AND INTERCONNECTION OF MEP EQUIPMENT IS MADE TO ATTAIN INTENDED CONTROL SEQUENCES AND SYSTEM OPERATION.
   - H. CONTRACTOR SHALL OBTAIN COMPLETE MEP DATA ON SHOP DRAWINGS AND SHALL LIST THIS DATA ON AN APPROVED FORM THAT SHALL BE PRESENTED ON REQUEST, TO OTHER TRADE CONTRACTORS. DATA SHALL BE COMPLETE WITH WIRING DIAGRAMS RECEIVED TO DATE AND SHALL CONTAIN NECESSARY DATA ON ELECTRICAL COMPONENTS OF PLUMBING EQUIPMENT SUCH AS HP, VOLTAGE, AMPERES, WATTS, LOCKED ROTOR CURRENT TO ALLOW OTHER TRADE CONTRACTORS TO ORDER SUPPORT OR OTHER EQUIPMENT COORDINATED AS REQUIRED IN HIS CONTRACT.
4. DEFINITIONS
   - A. WHENEVER USED IN THESE SPECIFICATIONS OR DRAWINGS, FOLLOWING TERMS SHALL HAVE INDICATED MEANINGS:
   - B. FURNISH: TERM "FURNISH" IS USED TO MEAN "SUPPLY & DELIVER TO PROJECT SITE. READY FOR UNLOADING, UNPACKING, ASSEMBLY. INSTALLATION & SIMILAR OPERATIONS.
   - C. INSTALL: TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING ACTUAL "UNLOADING, UNPACKING. ASSEMBLY. ERECTION. PLACING. ANCHORING. APPLYING, WORKING TO DIMENSION. FINISHING, CURING, PROTECTING, CLEANING. & SIMILAR OPERATIONS."
   - D. PROVIDE: TERM "PROVIDE" MEANS "TO FURNISH & INSTALL. COMPLETE & READY FOR INTENDED USE." FURNISHED BY OWNER OR FURNISHED BY OTHERS: ITEM WILL BE FURNISHED BY OWNER OR OTHERS. IT IS TO BE INSTALLED & CONNECTED UNDER REQUIREMENTS OF THIS DIVISION, COMPLETE & READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION & OPERATION. INSTALLATION SHALL BE INCLUDED UNDER GUARANTEE REQUIRED BY THIS DIVISION.
   - E. ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS ENGINEER OF RECORD & DESIGN PROFESSIONAL FOR WORK UNDER THIS DIVISION, & IS CONSULTANT TO, & AN AUTHORIZED REPRESENTATIVE OF, ARCHITECT. AS DEFINED IN GENERAL &/OR SUPPLEMENTARY CONDITIONS. WHEN USED IN THIS DIVISION. IT MEANS INCREASED INVOLVEMENT BY. & OBLIGATIONS TO, ENGINEER, IN ADDITION TO INVOLVEMENT BY. & OBLIGATIONS TO, "ARCHITECT".
   - F. AHJ: LOCAL CODE &/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER WORK.
   - G. THE TERMS "APPROVED EQUAL", "EQUIVALENT". OR "EQUAL" ARE USED SYNONYMOUSLY & SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO ENGINEER AS EQUIVALENT TO ITEM OR MANUFACTURER SPECIFIED".
   - H. THE TERM "APPROVED" SHALL MEAN LABELED, LISTED. OR BOTH. BY NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL. ETL. CSA). & ACCEPTABLE TO AHJ OVER THIS PROJECT.
5. PREBID SITE VISIT
   - A. PRIOR TO SUBMITTING BID. VISIT SITE OF PROPOSED WORK & BECOME FULLY INFORMED AS TO CONDITIONS UNDER WHICH WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER & ABOVE CONTRACT PRICE.
6. MATERIAL & WORKMANSHIP
   - A. PROVIDE NEW MATERIAL, EQUIPMENT. & APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN. OF BEST QUALITY NORMALLY USED FOR PURPOSE IN GOOD COMMERCIAL PRACTICE & FREE FROM DEFECTS. MODEL NUMBERS LISTED IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF TRIM GOVERN MODEL NUMBERS.
   - B. PIPE, FITTINGS, SPECIALTIES & VALVES SHALL BE MANUFACTURED IN USA. WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE NEAT & "WORKMANLIKE" APPEARANCE WHEN COMPLETED TO SATISFACTION OF ARCHITECT & ENGINEER. WORKMANSHIP SHALL BE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY W/ APPLICABLE CODES & LAWS. COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED & INTENDED W/ RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL. ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES & SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL MATERIALS & EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY & RESIDENTIAL EQUIPMENT IS NOT ACCEPTABLE.
   - C. REMOVE FROM PREMISES WASTE MATERIAL PRESENT FROM WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, &/OR EXCAVATION MATERIAL NOT USED.
   - D. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT NEAT & CLEAN INSTALLATION AT COMPLETION.
   - E. REPAIR OR REPLACE PUBLIC & PRIVATE PROPERTY DAMAGED AS RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO SATISFACTION OF AUTHORITIES & REGULATIONS HAVING JURISDICTION.
7. COORDINATION
   - A. COORDINATE WORK W/ OTHER TRADES SO VARIOUS COMPONENTS OF SYSTEMS WILL BE INSTALLED AT PROPER TIME WILL FIT AVAILABLE SPACE & WILL ALLOW PROPER SERVICE ACCESS FOR MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO OWNER.
   - B. OBTAIN EQUIPMENT SUBMITTAL INFORMATION FOR ALL PIECES OF EQUIPMENT TO BE CONNECTED TO FROM OTHER TRADES THAT CLEARLY INDICATES ALL CONNECTION REQUIREMENTS, LOCATIONS, SIZES, AND SIMILAR REQUIREMENTS. OBTAIN THIS INFORMATION IN AMPLE TIME TO COORDINATE OTHER TRADE SUBMITTALS AND EQUIPMENT COORDINATION. WHERE REQUIREMENTS DIFFER FROM THAT ON PLANS OR DIFFERS FROM PROVISIONS MADE IN THE WORK, IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER. DO NOT PROCEED WITH WORK THAT IS INCOMPATIBLE WITH EQUIPMENT PROVIDED.
   - C. UNLESS OTHERWISE INDICATED, GENERAL CONTRACTOR WILL PROVIDE CHASES & OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH GENERAL CONTRACTOR W/ INFORMATION WHERE CHASES & OPENINGS ARE REQUIRED.
   - D. KEEP INFORMED AS TO WORK OF OTHER TRADES ENGAGED IN CONSTRUCTION OF PROJECT & EXECUTE WORK IN MANNER AS TO NOT INTERFERE W/ OR DELAY WORK OF OTHER TRADES. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS.
   - E. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING & INSPECTION.
   - F. PROVIDE MATERIALS W/ TRIM THAT WILL PROPERLY FIT TYPES OF CEILING, WALL. OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT INTENDED TO DESIGNATE REQUIRED TRIM.
   - G. COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN DIFFERENT SECTIONS OF THE SPECIFICATIONS TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.
   - H. EACH CONTRACTOR SHALL COORDINATE ITS CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.
   - I. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION.
   - J. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR.
   - K. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
   - L. WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR OF ALL COMPONENTS, INCLUDING MECHANICAL AND ELECTRICAL.
   - M. AFTER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ALL PARTIES, TRANSMIT A SET OF SUBMITTALS TO EACH OTHER TRADE (EG PLUMBING, MECHANICAL, ELECTRICAL, CONTROLS, ETC) THAT WILL INTERFACE WITH INSTALLATION. EACH OTHER CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COORDINATION AND RETURN A STAMPED SUBMITTAL INDICATING THEY HAVE REVIEWED THE SUBMITTAL FOR COORDINATION PURPOSES.
8. ARCHITECTURAL VERIFICATION AND RELATED DOCUMENTS
   - A. CONTRACTOR SHALL CONSULT ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS IN THEIR ENTIRETY INCORPORATING AND CERTIFYING ALL MILLWORK, FURNITURE, AND EQUIPMENT ROUGH-IN INCLUDING UTILITY CHARACTERISTICS SUCH AS VOLTAGE, PHASE, AMPERAGE, PIPE SIZES, DUCT SIZES, INCLUDING HEIGHT, LOCATION AND ORIENTATION. SHOP DRAWINGS INCORPORATING THESE REQUIREMENTS SHOULD BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OR ROUGH IN.
9. ORDINANCES & CODES
   - A. WORK PERFORMED UNDER THIS CONTRACT SHALL. AT MINIMUM, BE IN CONFORMANCE W/ APPLICABLE NATIONAL, STATE & LOCAL CODES HAVING JURISDICTION.
   - B. INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE W/ CURRENT APPLICABLE CODES ADOPTED BY LOCAL AHJ INCLUDING ANY AMENDMENTS & STANDARDS AS SET FORTH BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA). AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS (ASHRAE). AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) & OTHER NATIONAL STANDARDS & CODES WHERE APPLICABLE.
   - C. WHERE CONTRACT DOCUMENTS EXCEED REQUIREMENTS OF REFERENCED CODES. STANDARDS, ETC., CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
   - D. PROCURE & PAY FOR PERMITS & LICENSES REQUIRED FOR ACCOMPLISHMENT OF WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN. PAY FOR & FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF LAW.
10. STANDARDS
    - A. DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD. SHOULD ANY WORK INDICATED BE SUB-STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES CAN BE MADE. HOWEVER, IF THE CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS, CONTRACTOR SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON COMPLYING WORK.
11. PROTECTION OF EQUIPMENT & MATERIALS
    - A. STORE & PROTECT FROM DAMAGE EQUIPMENT & MATERIALS DELIVERED TO JOB SITE. COVER AS REQUIRED TO PROTECT FROM DIRT & DAMAGE. PLUG OR CAP OPEN ENDS OF DUCTWORK & PIPING SYSTEMS WHILE STORED & INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT ENTRANCE OF DEBRIS INTO SYSTEMS. EQUIPMENT & MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, & CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT & MATERIAL OF LIKE KIND. KEEP PREMISES BROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC. SHALL HAVE NEAT & CLEAN APPEARANCE AT COMPLETION.
12. SUBSTITUTIONS
    - A. THE BASE BID SHALL INCLUDE ONLY PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN DRAWINGS & SPECIFICATIONS. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO DATE FOR RECEIPT OF BIDS. REQUEST SHALL INCLUDE NAME OF MATERIAL OR EQUIPMENT FOR SUBSTITUTION & COMPLETE DESCRIPTION OF PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE & TEST DATA & OTHER INFORMATION FOR EVALUATION. STATEMENT SETTING FORTH CHANGES IN OTHER MATERIALS, EQUIPMENT OR OTHER WORK THAT INCORPORATION OF SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED.
    - B. THE INTENT OF THESE SPECIFICATIONS IS TO ALLOW AMPLE OPPORTUNITY FOR CONTRACTOR TO USE HIS INGENUITY AND ABILITIES TO PERFORM THE WORK TO HIS AND THE OWNER'S BEST ADVANTAGE, AND TO PERMIT MAXIMUM COMPETITION IN BIDDING ON STANDARDS OF MATERIALS AND EQUIPMENT REQUIRED.
    - C. MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE FIRST CLASS QUALITY, NEW, UNUSED AND WITHOUT DAMAGE.
    - D. IN GENERAL, THESE SPECIFICATIONS IDENTIFY REQUIRED MATERIALS AND EQUIPMENT BY NAMING ONE OR MORE MANUFACTURER'S BRAND, MODEL, CATALOG NUMBER AND/OR OTHER IDENTIFICATION. THE FIRST NAMED MANUFACTURER OR PRODUCT IS USED AS THE BASIS FOR DESIGN; OTHER MANUFACTURERS NAMED MUST FURNISH PRODUCTS CONSISTENT WITH SPECIFICATIONS OF FIRST NAMED PRODUCT AS DETERMINED BY ENGINEER. BASE BID PROPOSAL SHALL BE BASED ONLY ON MATERIALS AND EQUIPMENT BY MANUFACTURERS NAMED, EXCEPT AS HEREINAFTER PROVIDED.
    - E. WHERE MATERIALS OR EQUIPMENT ARE DESCRIBED BUT NOT NAMED, PROVIDE REQUIRED ITEMS OF FIRST QUALITY, ADEQUATE IN EVERY RESPECT FOR INTENDED USE. SUCH ITEMS SHALL BE SUBMITTED TO ARCHITECT ENGINEER FOR REVIEW PRIOR TO PROCUREMENT.
    - F. MATERIALS AND EQUIPMENT PROPOSED FOR SUBSTITUTIONS SHALL BE EQUAL TO OR SUPERIOR TO THAT SPECIFIED IN CONSTRUCTION, EFFICIENCY, UTILITY, AESTHETIC DESIGN, AND COLOR AS DETERMINED BY ARCHITECT ENGINEER WHOSE DECISION SHALL BE FINAL AND WITHOUT FURTHER RECOURSE. PHYSICAL SIZE OF SUBSTITUTE BRAND SHALL BE NO LARGER THAN SPACE PROVIDED INCLUDING ALLOWANCES FOR ACCESS FOR INSTALLATION AND MAINTENANCE. REQUESTS MUST BE ACCOMPANIED BY COMPLETE DESCRIPTIVE AND TECHNICAL DATA INCLUDING MANUFACTURER'S NAME, MODEL AND CATALOG NUMBER, PHOTOGRAPHS OR CUTS, PHYSICAL DIMENSIONS, OPERATING CHARACTERISTICS AND ANY OTHER INFORMATION NEEDED FOR COMPARISON.
    - G. THE BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTE IS UPON PROPOSER. ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF PROPOSED SUBSTITUTION SHALL BE FINAL. TERMS APPROVED". "APPROVED EQUAL", & "EQUAL" REFER TO APPROVAL BY ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE.
    - H. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL AFTER TO AWARD OF CONTRACT. COORDINATE & VERIFY W/ OTHER TRADES WHETHER OR NOT SUBSTITUTED EQUIPMENT CAN BE INSTALLED AS SHOWN ON CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. INCLUDE ADDITIONAL COSTS FOR ARCHITECTURAL & ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.
13. SHOP DRAWINGS
    - A. EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT, ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS & SHEET METAL DUCTWORK FABRICATION DRAWINGS. BEFORE SUBMITTING SHOP DRAWINGS VERIFY EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE & SUITABLE FOR INTENDED USE & WILL FIT AVAILABLE SPACE & ALLOW AMPLE ROOM FOR MAINTENANCE. ENGINEER'S CHECKING & SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS. PROCEED W/ PROCUREMENT & INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM.
    - B. SUBMITTAL DATA SHALL BE NEATLY ORGANIZED, IDENTIFIED & INDEXED. EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED & ACCESSORIES INDICATED. LABEL CATALOG DATA W/ EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON DRAWINGS & INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, MATERIALS, FINISHES, WIRING DIAGRAMS & DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF ABOVE MENTIONED REQUIREMENTS ARE NOT MET.
    - C. REQUIREMENTS SHALL BE MET ELECTRONICALLY & SUBMITTED AS PDF IN FILES LESS THAN 10MB.
    - D. CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT STAMPED DRAWINGS HAVE BEEN CHECKED BY CONTRACTOR, COMPLY W/ DRAWINGS & SPECIFICATIONS, & HAVE BEEN COORDINATED W/ OTHER TRADES.
    - E. TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT PROJECT SCHEDULE. ALLOW FOR TWO WEEKS A/E REVIEW TIME, PLUS DUPLICATION OF THIS TIME FOR RESUBMITTALS, IF REQUIRED. TRANSMIT SUBMITTALS AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED & BEFORE CONSTRUCTION STARTS. ENGINEER'S SUBMITTAL REVIEWS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS.
    - F. FINAL COPIES SHALL BE FURNISHED TO OWNER AS PART OF O&M DOCUMENTS IN HARD & ELECTRONIC FORMATS.
14. OPERATION & MAINTENANCE INSTRUCTIONS
    - A. COLLECT & COMPILE COMPLETE BROCHURE OF EQUIPMENT FURNISHED & INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL & MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, TEST & BALANCE REPORTS, & DESCRIPTIVE LITERATURE AS FURNISHED BY EQUIPMENT MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS PROJECT NAME, DATE, OWNER, ARCHITECT, CONSULTING ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, & AN INDEX OF CONTENTS. SUBMIT THREE COPIES OF LITERATURE BOUND IN 3-RING BINDERS W/ INDEX & TABS SEPARATING EQUIPMENT TYPES TO ARCHITECT AT TERMINATION OF WORK. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL MANUAL IS RECEIVED & DEEMED COMPLETE BY ARCHITECT & ENGINEER. PROVIDE "AS-BUILT" DRAWINGS (SEE DIVISION 1 & GENERAL CONDITIONS).
    - B. THESE REQUIREMENTS MAY SHALL ALSO BE PROVIDED TO THE OWNER IN A WELL ORGANIZED PDF ELECTRONIC SUBMISSION & DELIVERED ON A DVD OR USB THUMBDRIVE.
15. TRAINING
    - A. PROVIDE FACTORY TRAINED & AUTHORIZED REPRESENTATIVE TO TRAIN OWNER'S DESIGNATED PERSONNEL ON OPERATION & MAINTENANCE OF EQUIPMENT PROVIDED FOR THIS PROJECT. PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF SYSTEM &/OR EQUIPMENT AS IT RELATES TO FACILITY AS WHOLE; OPERATION & MAINTENANCE PROCEDURES & SCHEDULES RELATED TO STARTUP & SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE & APPROPRIATE OPERATOR INTERVENTION; & REVIEW OF DATA INCLUDED IN OPERATION & MAINTENANCE MANUALS. SUBMIT CERTIFICATION LETTER TO ARCHITECT STATING THAT OWNER'S DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES & SUBJECT OF TRAINING. CONTRACTOR & OWNER'S REPRESENTATIVE SHALL SIGN CERTIFICATION LETTER INDICATING AGREEMENT THAT TRAINING HAS BEEN PROVIDED. SCHEDULE OWNER TRAINING W/ AT LEAST 7 DAYS' ADVANCE NOTICE.
16. SPARE PARTS
    - A. FURNISH TO OWNER, W/ RECEIPT ONE SET OF SPARE FILTERS OF EACH TYPE REQUIRED FOR EACH UNIT. IN ADDITION TO SPARE SET OF FILTERS, INSTALL NEW FILTERS PRIOR TO TESTING, ADJUSTING, & BALANCING WORK & BEFORE TURNING SYSTEM OVER TO OWNER.
    - B. FURNISH ONE COMPLETE SET OF BELTS FOR EACH FAN.
17. EQUIPMENT LABELS:
    - A. MATERIAL AND THICKNESS: MULTILAYER, MULTICOLOR, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 1/16 INCH THICK, AND HAVING PREDRILLED HOLES FOR ATTACHMENT HARDWARE. BLACK LETTERS ON WHITE BACKGROUND.
    - B. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 2-1/2 BY 3/4 INCH.
    - C. MINIMUM LETTER SIZE: 1/4" FOR NAME OF UNITS IF VIEWING DISTANCE IS LESS THAN 24 INCHES, 1/2" FOR VIEWING DISTANCES UP TO 72” & PROPORTIONATELY LARGER LETTERING FOR GREATER VIEWING DISTANCES. INCLUDE SECONDARY LETTERING TWO-THIRDS TO THREE-FOURTHS THE SIZE OF PRINCIPAL LETTERING.
18. WARRANTIES
    - A. WARRANT EACH SYSTEM & EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP DESIGN OR MATERIAL FOR PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY LONGER WARRANTY IN CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN WARRANTY PERIOD(S) STATED IN GENERAL CONDITIONS & DIVISION 1. WARRANTIES SHALL INCLUDE LABOR & MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO OWNER. PERFORM REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM ENGINEER OR OWNER.
    - B. AT TIME OF SUBSTANTIAL COMPLETION, DELIVER TO OWNER ALL WARRANTIES IN WRITING & PROPERLY EXECUTED INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND ONE YEAR PERIOD. EACH WARRANTY INSTRUMENT BEING ADDRESSED TO OWNER & STATING COMMENCEMENT DATE & TERM.
19. CUTTING & PATCHING
    - A. PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH ORIGINAL MATERIAL & CONSTRUCTION. REPAIR & REFINISH AREAS DISTURBED BY WORK TO CONDITION OF ADJOINING SURFACES IN MANNER SATISFACTORY TO ARCHITECT.
20. EXCAVATION AND BACKFILL
    - A. PERFORM NECESSARY EXCAVATION TO RECEIVE WORK. PROVIDE NECESSARY SHEATHING, SHORING, CRIBBING, TARPAULINS, ETC. FOR THIS OPERATION, AND REMOVE IT AT COMPLETION OF WORK. PERFORM EXCAVATION IN ACCORDANCE WITH APPROPRIATE SECTION OF THESE SPECIFICATIONS, AND IN COMPLIANCE WITH OSHA SAFETY STANDARDS.
    - B. EXCAVATE TRENCHES OF SUFFICIENT WIDTH TO ALLOW AMPLE WORKING SPACE, AND NO DEEPER THAN NECESSARY FOR INSTALLATION WORK.
    - C. CONDUCT EXCAVATIONS SO NO WALLS OR FOOTINGS ARE DISTURBED OR INJURED. BACKFILL EXCAVATIONS MADE UNDER OR ADJACENT TO FOOTING WITH SELECTED EARTH OR SAND AND TAMP TO COMPACTION REQUIRED BY ARCHITECT_ENGINEER. MECHANICALLY TAMP BACKFILL UNDER CONCRETE AND PAVINGS IN SIX INCH LAYERS TO 95% STANDARD DENSITY, REFERENCE DIVISION 2.
    - D. BACKFILL TRENCHES AND EXCAVATIONS TO REQUIRED HEIGHTS WITH ALLOWANCE MADE FOR SETTLEMENT. TAMP FILL MATERIAL THOROUGHLY AND MOISTENED AS REQUIRED FOR SPECIFIED COMPACTION DENSITY. DISPOSE OF EXCESS EARTH, RUBBLE AND DEBRIS AS DIRECTED BY ARCHITECT.
    - E. WHEN AVAILABLE, REFER TO TEST HOLE INFORMATION ON ARCHITECTURAL OR CIVIL DRAWINGS OR SPECIFICATIONS FOR TYPES OF SOIL TO BE ENCOUNTERED IN EXCAVATIONS.
21. ROUGH-IN
    - A. COORDINATE ROUGH-IN W/ GENERAL CONSTRUCTION & OTHER TRADES. CONCEAL PIPING & CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS & WHERE OTHERWISE SHOWN.
22. STRUCTURAL STEEL
    - A. STRUCTURAL STEEL USED FOR SUPPORT OF EQUIPMENT, DUCTWORK & PIPING SHALL BE NEW, CLEAN, & CONFORM TO ASTM A-36. SUPPORT MECHANICAL COMPONENTS FROM BUILDING STRUCTURE. DO NOT SUPPORT MECHANICAL COMPONENTS FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, & OTHER NON-STRUCTURAL ELEMENTS.
23. ACCESS DOORS
    - A. PROVIDE ACCESS DOORS IN CEILINGS, WALLS, ETC. WHERE INDICATED OR REQUIRED FOR ACCESS OR MAINTENANCE TO CONCEALED VALVES & EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE. LOCATION & COLOR BEFORE ORDERING.
24. PENETRATIONS
    - A. SEAL MECHANICAL FLOOR, EXTERIOR WALL & ROOF PENETRATIONS WATERTIGHT & WEATHERTIGHT. SEAL AROUND MECHANICAL PENETRATIONS W/ 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED & RECOMMENDED BY MANUFACTURER) TO MAINTAIN RESISTANCE RATING OF FIRE-RATED ASSEMBLIES. PROVIDE PREFABRICATED ROOF CURBS MANUFACTURED BY CUSTOM CURB, PATE, THYCURB OR APPROVED EQUAL. PROVIDE ROOF CURB W/ FACTORY INSTALLED WOOD NAILER; WELDED, 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE & FLASHING; 1-1/2" THICK, 3 POUND RIGID INSULATION; FULLY MITERED 3-INCH RAISED CANT; COVER OF WEATHER-RESISTANT, WEATHER-PROOF MATERIAL & PIPE COLLAR OF WEATHER-RESISTANT MATERIAL W/ STAINLESS STEEL PIPE CLAMPS. MAKE ROOF PENETRATIONS BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.
25. MOTORS & STARTERS
    - A. PROVIDE MOTORS & STARTING EQUIPMENT WHERE NOT FURNISHED W/ EQUIPMENT PACKAGE. MOTORS SHALL HAVE COPPER WINDINGS, CLASS B INSULATION, & STANDARD SQUIRREL CAGE W/ STARTING TORQUE CHARACTERISTICS SUITABLE FOR EQUIPMENT SERVED. MOTORS FOR AIR HANDLING EQUIPMENT SHALL BE SELECTED FOR QUIET OPERATION. EACH MOTOR SHALL BE CHECKED FOR PROPER ROTATION AFTER ELECTRICAL CONNECTION HAS BEEN COMPLETED. PROVIDE DRIPPROOF ENCLOSURE FOR LOCATIONS PROTECTED FROM WEATHER & NOT IN AIR STREAM OF FAN; & TOTALLY ENCLOSED FAN COOLED ENCLOSURE FOR MOTORS EXPOSED TO WEATHER. MOTORS SHALL BE MANUFACTURED BY CENTURY, GE, WESTINGHOUSE, OR APPROVED EQUAL. PROVIDE EVERY MOTOR, EXCEPT FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS W/ AN APPROVED TYPE OF "BUILT-IN" THERMAL OVERLOAD PROTECTION, W/ MOTOR STARTER. EACH STARTER SHALL BE PROVIDED W/ OVERLOAD HEATERS SIZED TO MOTOR RATING, & EVERY THREE PHASE MOTOR STARTER SHALL HAVE OVERLOAD HEATERS IN EACH PHASE. AMBIENT COMPENSATED HEATERS SHALL BE INSTALLED WHEREVER NECESSARY. UNLESS NOTED OTHERWISE, MOTOR STARTERS SHALL BE FURNISHED BY DIVISION 22/23 CONTRACTOR FOR INSTALLATION & CONNECTION BY DIVISION 26 CONTRACTOR. STARTERS SHALL BE ALLEN-BRADLEY, CLARK, FURNAS, SQUARE D, OR APPROVED EQUAL.
26. ELECTRICAL WIRING
    - A. LINE VOLTAGE WIRING SHALL BE PROVIDED BY DIVISION 26. LINE VOLTAGE CONTROL & INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE PROVIDED BY DIVISION 26 CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY DIVISION 22/23 CONTRACTOR. FURNISH WIRING DIAGRAMS TO DIVISION 26 CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE W/ DIVISION 26 CONTRACTOR ACTUAL WIRE SIZING AMPS FOR SUBMITTED MECHANICAL EQUIPMENT TO ENSURE PROPER INSTALLATION
27. DISCONNECT SWITCHES
    - A. PROVIDE HEAVY-DUTY HORSEPOWER RATED SAFETY SWITCHES RATED IN ACCORDANCE WITH NEMA ENCLOSED SWITCH STANDARD KS 1_1969 AND L98 STANDARD.
    - B. EACH PIECE OF ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH A DISCONNECTING MEANS.
    - C. EQUIVALENTS BY: GE, EATON, SIEMENS, SQUARE D.
28. EQUIPMENT FURNISHED BY OTHERS
    - A. PROVIDE NECESSARY EQUIPMENT & ACCESSORIES THAT ARE NOT PROVIDED BY EQUIPMENT SUPPLIER OR OWNER TO COMPLETE INSTALLATION OF COOKING EQUIPMENT, WASHING EQUIPMENT, ETC., FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON DRAWINGS &/OR DESCRIBED IN GENERAL NOTES TO THIS CONTRACTOR. EQUIPMENT & ACCESSORIES NOT PROVIDED BY EQUIPMENT SUPPLIER MAY INCLUDE FLUES, VENTS, INTAKES, ASSOCIATED ROOF JACKS & CAPS TO OUTDOORS, DAMPERS. IN-LINE FANS, ROOF FANS, CONTROL INTERLOCKS, ETC. AS REQUIRED FOR PROPER OPERATION OF COMPLETE SYSTEM IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ROUGH-IN DIMENSIONS, & SHALL VERIFY SAME W/ ARCHITECT &/OR EQUIPMENT SUPPLIER PRIOR TO SERVICE INSTALLATIONS.
29. SETTING, ADJUSTMENT AND EQUIPMENT SUPPORTS
    - A. WORK SHALL INCLUDE MOUNTING, ALIGNMENT AND ADJUSTMENT OF SYSTEMS AND EQUIPMENT. SET EQUIPMENT LEVEL ON ADEQUATE FOUNDATION AND PROVIDE PROPER ANCHOR BOLTS AND ISOLATION AS SHOWN, SPECIFIED OR REQUIRED BY MANUFACTURERS IN INSTALLATION INSTRUCTIONS. LEVEL, SHIM AND GROUT EQUIPMENT BASES AS RECOMMENDED BY MANUFACTURER. MOUNT MOTORS, ALIGN AND ADJUST DRIVE SHAFTS AND BELTS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
    - B. EQUIPMENT FAILURES RESULTING FROM IMPROPER INSTALLATION OR FIELD ALIGNMENT SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO COST TO OWNER.
    - C. FLOOR OR PAD MOUNTED EQUIPMENT SHALL NOT BE HELD IN PLACE SOLELY BY ITS OWN DEAD WEIGHT. INCLUDE ANCHOR FASTENING IN ALL CASES.
    - D. PROVIDE FLOOR OR SLAB MOUNTED EQUIPMENT WITH 3_1/2” HIGH CONCRETE BASES UNLESS SPECIFIED OTHERWISE. INDIVIDUAL CONCRETE PAD SHALL BE NO LESS THAN 4” WIDER AND 4” LONGER THAN EQUIPMENT, AND SHALL EXTEND NO LESS THAN 2” FROM EACH SIDE OF EQUIPMENT.
    - E. PROVIDE EACH PIECE OF EQUIPMENT OR APPARATUS SUSPENDED FROM CEILING OR MOUNTED ABOVE FLOOR LEVEL WITH SUITABLE STRUCTURAL SUPPORT, PLATFORM OR CARRIER IN ACCORDANCE WITH BEST-RECOGNIZED PRACTICE. VERIFY THAT STRUCTURAL MEMBERS OF BUILDINGS ARE ADEQUATE TO SUPPORT EQUIPMENT AND UNLESS OTHERWISE INDICATED ON PLANS OR SPECIFIED, ARRANGE FOR THEIR INCLUSION AND ATTACHMENT TO BUILDING STRUCTURE. PROVIDE HANGERS WITH VIBRATION ISOLATORS.
    - F. SUBMIT DETAILS OF HANGERS, PLATFORMS AND SUPPORTS TOGETHER WITH TOTAL WEIGHTS OF MOUNTED EQUIPMENT TO ARCHITECT_ENGINEER FOR REVIEW BEFORE PROCEEDING WITH FABRICATION OR INSTALLATION.
30. MISCELLANEOUS REMODELING WORK
    - A. REMOVE ALL UNUSED EQUIPMENT, DUCTWORK, PIPING & ASSOCIATED SUPPORTS. CAP DUCTWORK & PIPING AT MAINS & SEAL AIR & WATER TIGHT. PROVIDE ITEMS OF HVAC SYSTEMS MODIFICATION REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON DRAWINGS OR NECESSARY FOR PROPER OPERATION. MATCH EXISTING MATERIALS & CONSTRUCTION TECHNIQUES WHEN MODIFYING EXISTING SYSTEMS UNLESS SPECIFIED OTHERWISE. COORDINATE ADDITIONAL REQUIREMENTS W/ GENERAL CONTRACTOR & ARCHITECT. SEAL AIRTIGHT EXISTING DUCTWORK REQUIRED TO BE ABANDONED IN PLACE OR NOT IN USE AT TERMINATION OF WORK. CAP & SEAL WEATHERTIGHT EXISTING ROOF CURBS & ROOF OPENINGS TO BE ABANDONED IN PLACE AS RESULT OF EQUIPMENT REMOVAL. CLEAN & REBALANCE EXISTING DUCTWORK, DIFFUSERS, REGISTERS, & GRILLES INTENDED FOR REUSE AS REQUIRED OR AS INDICATED ON DRAWINGS. CLEAN & REFURBISH EXISTING HVAC EQUIPMENT INTENDED FOR REUSE AS REQUIRED FOR PROPER OPERATION INCLUDING REPLACEMENT OF FILTERS, BELTS, MOTORS, REMOTE CONTROLS, & SAFETY INTERLOCKS.
31. BUILDING OPERATION
    - A. COMPLY W/ SCHEDULE OF OPERATIONS AS OUTLINED IN ARCHITECTURAL PORTIONS OF THIS SPECIFICATION. BUILDING SHALL BE IN CONTINUOUS OPERATION. ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT TIME WHEN BUILDING IS NOT IN OPERATION, & ONLY W/ WRITTEN APPROVAL OF BUILDING OWNER &/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION W/ OWNER &/OR TENANT MINIMUM OF SEVEN DAYS IN ADVANCE OF WORK.
    - B. THE FOLLOWING WORK SHALL BE PERFORMED AT NIGHT OR WEEKEND OTHER THAN HOLIDAY WEEKENDS AS DIRECTED AND COORDINATED WITH THE OWNER: ALL TIE-IN, CUT-OVER AND MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEM AND OTHER EXISTING SYSTEM REQUIRING TIE-INS OR MODIFICATIONS SHALL BE ARRANGED AND SCHEDULED WITH THE OWNER TO BE DONE AT A TIME AS TO MAINTAIN CONTINUITY OF THE SERVICE AND NOT INTERFERE WITH NORMAL BUILDING OPERATIONS.
32. VIBRATION ISOLATION
    - A. PROVIDE VIBRATION ISOLATION EQUIPMENT & MATERIALS BY SINGLE MANUFACTURER. AMBER BOOTH, KINETICS NOISE CONTROL, MASON INDUSTRIES, INC., VIBRATION ELIMINATOR CO., INC., & VIBRATION MOUNTING & CONTROLS. GENERAL REQUIREMENTS: SELECT VIBRATION ISOLATORS BY WEIGHT DISTRIBUTION TO PRODUCE UNIFORM DEFLECTION. ISOLATORS SHALL OPERATE IN LINEAR PORTION OF THEIR LOAD VERSUS DEFLECTION CURVES. SPRING ISOLATORS SHALL HAVE 50 PERCENT EXCESS CAPACITY WITHOUT BECOMING COIL BOUND. COAT VIBRATION ISOLATORS W/ FACTORY-APPLIED PAINT. COAT VIBRATION ISOLATORS EXPOSED TO WEATHER & CORROSION W/ FACTORY-APPLIED PROTECTION. INSTALL & ADJUST ISOLATORS IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS.
33. FIRE BARRIERS
    - A. GENERAL: FOR PENETRATIONS THROUGH FIRE-RESISTANCE-RATED CONSTRUCTIONS, INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS, PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION PENETRATED.
34. WELDING
    - A. CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY OF WELDING AND SUITABILITY OF WELDING PROCEDURES. ALL WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARD B3.0 AND ANSI STANDARD B31.1.
    - B. WELDED PIPE JOINTS SHALL BE MADE BY CERTIFIED WELDING PROCEDURES AND WELDERS. WELDING ELECTRODES SHALL BE TYPE AND MATERIAL RECOMMENDED BY ELECTRODE MANUFACTURER FOR MATERIALS TO BE WELDED. ALL PIPE AND FITTINGS ENDS SHALL BE BEVELED A MINIMUM OF 30 DEGREES PRIOR TO WELDING.
    - C. ONLY WELDERS WHO HAVE SUCCESSFULLY PASSED WELDER QUALIFICATIONS TESTS IN PREVIOUS 12 MONTHS FOR TYPE OF WELDING REQUIRED SHALL DO WELDING. EACH WELDER SHALL IDENTIFY HIS WORK WITH A CODE MARKING BEFORE STARTING ANY WELDED PIPE FABRICATION. CONTRACTOR SHALL SUBMIT THREE COPIES OF A LIST OF WELDERS WHO WILL WORK ON PROJECT LISTING WELDERS' CODE, DATE AND TYPES OF LATEST QUALIFICATION TEST PASSED BY EACH WELDER.
    - D. WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH LEVEL AR3 OF AMERICAN WELDING SOCIETY STANDARD AWS D10.9 “STANDARD FOR QUALIFICATION OF WELDING PROCEDURES AND WELDERS FOR PIPE AND TUBING”. WELDERS QUALIFIED UNDER NATIONAL CERTIFIED PIPE WELDING BUREAU WILL BE ACCEPTABLE.
    - E. BEVEL ALL PIPING AND FITTINGS IN ACCORDANCE WITH RECOGNIZED STANDARDS BY FLAME CUTTING OR MECHANICAL MEANS. ALIGN AND POSITION PARTS SO THAT BRANCHES AND FITTINGS ARE SET TRUE. MAKE CHANGES IN DIRECTION OF PIPING SYSTEMS WITH FACTORY MADE WELDING FITTINGS. MAKE BRANCH CONNECTIONS WITH WELDING TEES OR FORGED WELDOLET.

END OF GENERAL MEP REQUIREMENTS

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23.062

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STATE OF MISSOURI
DAVID LAWRENCE DEATHERAGE
NUMBER E-29880
REGISTERED PROFESSIONAL ENGINEER
2/22/23
David Lawrence Deatherage - Engineer
MO# E-29880

DATE: FEBRUARY 22, 2023

REVISION & DATE:

ELEC SPECIFICATIONS

SHEET NUMBER:

E200

ELECTRICAL SPECIFICATIONS

SECTION 26000 - ELECTRICAL

1. GENERAL ELECTRICAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS.
   - B. WIRING OF MECHANICAL EQUIPMENT
     1) PROVIDE ALL RACEWAYS & POWER WIRING FOR ALL DIVISION 23 EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, INCLUDING, BUT NOT LIMITED TO, PUMPS, WATER HEATERS, & HVAC EQUIPMENT, & ALL LINE VOLTAGE CONTROL & INTERLOCK WIRING NOT PROVIDED UNDER DIVISION 23. CONNECT PER MANUFACTURERS' WIRING DIAGRAMS. COORDINATE WITH DIVISION 23 FOR DISCONNECTS FURNISHED W/ EQUIPMENT, & PROVIDE ALL DISCONNECT SWITCHES AS REQUIRED. AFTER INSTALLING WIRING, VERIFY THAT EACH MOTOR LOAD HAS CORRECT PHASE ROTATION.
     2) VERIFY ACTUAL "MAXIMUM OVERCURRENT PROTECTION" (MOCP) DEVICE RATINGS & "MINIMUM CIRCUIT AMPACITY" (MCA) CONDUCTOR SIZING FOR MECHANICAL EQUIPMENT FROM EQUIPMENT NAMEPLATE. BASE ELECTRICAL INSTALLATIONS ON ACTUAL REQUIRED AMPERAGES, WHICH MAY VARY SOMEWHAT FROM CONDUCTOR & EQUIPMENT SIZES SHOWN ON DRAWINGS; HOWEVER, IN NO CASE, REDUCE SIZE OF CONDUCTORS INDICATED ON DRAWINGS WITHOUT AUTHORIZATION FROM ENGINEER. PROVIDE PROPERLY SIZED ELECTRICAL WIRING & EQUIPMENT WITHOUT EXTRA COST TO OWNER. NOTIFY ENGINEER OF ALL CHANGES REQUIRED IN ELECTRICAL INSTALLATION DUE TO EQUIPMENT VARIANCES SO THAT EFFECTS ON FEEDERS, BRANCH CIRCUITS, PANELBOARDS, FUSES & CIRCUIT BREAKERS CAN BE CHECKED PRIOR TO PURCHASING & INSTALLATION. BE RESPONSIBLE FOR COORDINATING W/ DIVISION 23 TO VERIFY ACTUAL AMPACITIES & CORRECT SIZES OF ALL CONDUCTORS & OVERCURRENT PROTECTIVE DEVICES FOR ALL EQUIPMENT, & CORRECT OVERLOAD HEATERS FOR ALL MOTORS, WHEN STARTERS ARE PROVIDED UNDER DIVISION 26.
   - C. WIRING OF THERMOSTATS. TIME, & TEMPERATURE CONTROLS
     1) PROVIDE ALL RACEWAYS, POWER WIRING, & LINE-VOLTAGE CONTRL AND INTERLOCK WIRING NOT PROVIDED UNDER DIVISION 23, FOR ALL THERMOSTATS, TEMPERATURE CONTROL DEVICES, & CONTROLS, INCLUDING, BUT NOT LIMITED TO, NIGHT-STATS, WATER HEATER INTERLOCKS, TIME SWITCHES & OVERRIDE TIMERS. SEE MECHANICAL DRAWINGS FOR LOCATIONS & TEMPERATURE CONTROL DIAGRAMS. LOW-VOLTAGE CONDUCTORS FOR THERMOSTATS & TEMPERATURE CONTROL SYSTEM MAY BE RUN EXPOSED ABOVE FINISHED ACCESSIBLE CEILINGS, IF APPROVED & LISTED FOR THIS PURPOSE, BUT SHALL BE INSTALLED IN CONDUIT WITHIN WALLS & WHERE EXPOSED IN WORK AREAS.
2. CONDUIT & CONDUCTORS
   - A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 3/4" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.
   - B. CONDUCTORS #10 AND SMALLER SHALL BE SOLID.
   - C. IF NO CONDUCTOR SIZE IS INDICATED ON DRAWINGS FOR BRANCH CIRCUIT, PROVIDE CONDUCTORS & CONDUIT SIZED PER NFPA 70 & BASED ON INDICATED BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (OCPD) RATING & NUMBER OF POLES.
   - D. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR:
     1) ALL CIRCUITS & FEEDERS GREATER THAN 30A.
     2) KITCHEN CIRCUITS.
     3) HOME RUNS.
   - E. MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS & LIGHTING CIRCUITS. DO NOT DAISY CHAIN LIGHT FIXTURES. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTHS.
     1) DO NOT USE MC CABLE FOR FOLLOWING: HOMERUNS TO PANELBOARDS, WHERE EXPOSED TO VIEW OR DAMAGE, HAZARDOUS LOCATIONS, IN CONCRETE, BLOCK WALLS OR WET LOCATIONS, & WHEN DISALLOWED BY LOCAL AHJ OR LANDLORD.
     2) PROVIDE HEALTH CARE RATED MC FOR PATIENT CARE AREAS (AS DEFINED BY THE NEC) WHEN NOT IN CONDUIT.
   - F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THHN-THWN-2 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUFACTURERS RECOMMENDED RATING.
   - G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THHN-THWN-2 600 VOLT, 75 DEG C.
   - H. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED FOR, PROPERLY SIZED FOR, & UL LISTED FOR SPECIFIC APPLICATION & CONDUCTORS INVOLVED, & INSTALLED IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.
   - I. WHERE WIRING IS INDICATED AS INSTALLED, BUT CONNECTION IS INDICATED "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE MINIMUM 3-FOOT "PIGTAIL" AT BOX, TAPE ENDS OF CONDUCTORS, & COVER BOX.
   - J. NUMBER OF CONDUCTORS IN SPECIFIC RACEWAY "HOME RUN" IS INDICATED W/ CROSS LINES (TICK MARKS) ON EACH "CIRCUIT RUN" ON DRAWINGS. IN GENERAL, DIRECTION OF BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON DRAWINGS. COMPLETE W/ CIRCUIT NUMBERS & PANELBOARD DESIGNATION. CONTINUE ALL SUCH "HOME RUN" WIRING TO DESIGNATED PANELBOARD, AS THOUGH "CIRCUIT RUNS" WERE INDICATED IN THEIR ENTIRETY.
   - K. WIRING SHALL HAVE INSULATION OF PROPER COLOR TO MATCH NEC COLOR CODE. IN LARGER SIZES, WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, USE VINYL PLASTIC ELECTRICAL TAPE OF APPROPRIATE COLOR AROUND EACH CONDUCTOR AT ALL TERMINATION POINTS, JUNCTION & PULL BOXES.
3. GROUNDING
   - A. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
   - B. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE, SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
   - C. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
   - D. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.
   - E. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.
   - F. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.
4. RACEWAY INSTALLATION
   - A. INSTALL ALL CONDUCTORS & CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES & ENCLOSURES W/ APPROVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS & TERMINAL BLOCKS FOR CONTROL WIRING, & KEEP TO MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, & JOINTS AS REQUIRED BY CODES.
   - B. INSTALL ALL CIRCULAR RACEWAYS CONCEALED ABOVE SUSPENDED CEILINGS OR CONCEALED IN WALLS OR FLOORS WHEREVER POSSIBLE EXCEPT WHERE OTHERWISE INDICATED.
     1) ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.
     2) SUPPORT ALL CONDUCTORS & CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA 70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-MESH SAFETY GRIPS.
   - C. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHD. 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
   - D. PROVIDE GRS FOR ALL CONDUITS RUN EXPOSED TO WEATHER OR EXPOSED TO OTHER HAZARDOUS CONDITIONS. PROVIDE ANY GRS INSTALLED BELOW GRADE W/ CORROSION RESISTANT BONDED-PLASTIC OR APPROVED MASTIC COATING. THIS SHALL INCLUDE 90-DEGREE ELBOW BELOW GRADE & ENTIRE VERTICAL TRANSITION TO ABOVE GRADE.
   - E. PROVIDE INTERLOCKING SPACERS FOR MULTIPLE RUNS OF UG CONDUITS IN SAME TRENCH.
   - F. ALL OTHER RACEWAY MAY BE EMT WHERE APPROVED BY LOCAL CODE. USE COMPRESSION TYPE FITTINGS FOR EMT, W/ ALL FITTINGS UL LISTED FOR ENVIRONMENT IN WHICH THEY ARE USED.
   - G. USE FMC FOR FINAL CONNECTION TO EACH MOTOR & TRANSFORMER, & TO ANY DEVICE THAT WOULD OTHERWISE TRANSMIT MOTION, VIBRATION, OR NOISE. USE LFMC WHERE EXPOSED TO LIQUIDS, VAPORS OR SUNLIGHT.
     1) PROVIDE ALL FMC & LFMC W/ AN INSULATED BONDING CONDUCTOR.
   - H. INSTALL RACEWAYS PARALLEL & PERPENDICULAR TO BUILDING LINES.
   - I. INSTALL RACEWAYS TO REQUIREMENTS OF STRUCTURE & TO REQUIREMENTS OF ALL OTHER WORK ON PROJECT. INSTALL RACEWAY TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, & OTHER IMMOVABLE OBSTACLES. INSTALL RACEWAYS SET IN FORMS FOR CONCRETE STRUCTURE IN SUCH MANNER THAT INSTALLATION WILL NOT AFFECT STRENGTH OF STRUCTURE.
   - J. INSTALL RACEWAYS CONTINUOUS BETWEEN CONNECTIONS TO OUTLETS, BOXES & CABINETS W/ MINIMUM POSSIBLE NUMBER OF BENDS & NOT MORE THAN EQUIVALENT OF FOUR 90-DEGREE BENDS BETWEEN CONNECTIONS. USE MANUFACTURED ELBOWS FOR ALL 45- & 90-DEGREE BENDS, UNLESS APPROVED BY ENGINEER IN ADVANCE. MAKE OTHER BENDS SMOOTH & EVEN & WITHOUT FLATTENING RACEWAY OR FLAWING GALVANIZING OR ENAMEL. RADII OF BENDS SHALL BE AS LONG AS POSSIBLE & NEVER SHORTER THAN CORRESPONDING TRADE ELBOW. USE LONG RADIUS ELBOWS WHERE NECESSARY, INDICATED, OR BOTH.
   - K. SECURELY FASTEN RACEWAYS IN PLACE W/ APPROVED STRAPS, HANGERS & STEEL SUPPORTS AS REQUIRED. ATTACH RACEWAY SUPPORTS TO BUILDING STRUCTURE. HANG SINGLE RACEWAYS FOR FEEDERS W/ MALLEABLE SPLIT RING HANGERS W/ ROD & TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE.
   - L. CLAMP GROUPS OF HORIZONTAL FEEDER RACEWAYS TO STEEL CHANNELS THAT ARE SUSPENDED FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. SECURELY CLAMP VERTICAL FEEDER RACEWAYS TO STRUCTURAL STEEL MEMBERS ATTACHED TO STRUCTURE. INSTALL CABLE CLAMPS FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. ADD RACEWAY SUPPORTS WITHIN 12 INCHES OF ALL BENDS, ON BOTH SIDES OF BENDS. DO NOT SUPPORT RACEWAYS FROM SUSPENDED CEILING COMPONENTS.
   - M. REAM RACEWAY ENDS, THOROUGHLY CLEAN RACEWAYS BEFORE INSTALLATION, & KEEP CLEAN AFTER INSTALLATION. PLUG OR COVER OPENINGS & BOXES AS REQUIRED TO KEEP RACEWAYS CLEAN DURING CONSTRUCTION & FISH ALL RACEWAYS CLEAR OF OBSTRUCTIONS BEFORE PULLING CONDUCTORS WIRES. PROVIDE RACEWAYS OF AMPLE SIZE FOR PULLING OF WIRE & NOT SMALLER THAN CODE REQUIREMENTS & NOT LESS THAN 3/4", UNLESS INDICATED OTHERWISE ON DRAWINGS.
   - N. PROTECT ALL RACEWAY INSTALLATIONS AGAINST DAMAGE DURING CONSTRUCTION. REPAIR ALL RACEWAYS DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN TO MEET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO OWNER.
   - O. ALIGN & INSTALL TRUE & PLUMB ALL RACEWAY TERMINATIONS AT PANELBOARDS.
   - P. INSTALL APPROVED EXPANSION/DEFLECTION FITTINGS WHERE RACEWAYS PASS THROUGH (IF EMBEDDED) OR ACROSS (IF EXPOSED) EXPANSION JOINTS.
   - Q. INSTALL PULL WIRE IN EACH EMPTY RACEWAY THAT IS LEFT FOR INSTALLATION OF CONDUCTORS OR CABLES UNDER OTHER DIVISIONS OR CONTRACTS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE. LEAVE MIN. 24" SLACK AT EACH END.
   - R. MAKE ALL JOINTS & CONNECTIONS IN MANNER THAT WILL ENSURE MECHANICAL STRENGTH & ELECTRICAL CONTINUITY.
   - S. EFFECTIVELY SEAL RACEWAYS, BY INSTALLING CONDUIT FITTING AT BOUNDARY OF TWO SPACES, & FILLING IT W/ AN APPROVED PLIABLE MATERIAL, AFTER CONDUCTORS OR CABLES HAVE BEEN INSTALLED & TESTED, WHENEVER RACEWAYS PASS FROM NON-COOLED TO COOLED SPACES OR TRANSITION FROM OUTSIDE FACILITY OR ENCLOSURE TO INSIDE, WHETHER BURIED OR EXPOSED.
5. BUSHINGS & LOCKNUTS
   - A. RIGIDLY TERMINATE CONDUITS ENTERING SHEET METAL ENCLOSURES TO ENCLOSURE W/ BUSHING & LOCKNUT ON INSIDE & LOCKNUT OR AN APPROVED HUB ON OUTSIDE. CONDUIT SHALL ENTER ENCLOSURE SQUARELY.
   - B. PROVIDE BUSHINGS & LOCKNUTS MADE OF GALVANIZED MALLEABLE IRON W/ SHARP, CLEAN-CUT THREADS. WHERE EMT ENTERS BOX, PROVIDE APPROVED EMT COMPRESSION CONNECTORS.
   - C. USE INSULATED, GROUNDING, OR COMBINATION, BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE WHEN REQUIRED BY NFPA 70, OR BOTH.
6. JUNCTION & OUTLET BOXES
   - A. ALL BOXES INCLUDING LIGHT FIXTURE, SWITCH, RECEPTACLE, & SIMILAR OUTLET BOXES: NATIONAL ELECTRICAL, APPLETON, STEEL CITY, RACO, OR APPROVED EQUAL, GALVANIZED STEEL KNOCKOUT BOXES, SUITABLE IN DESIGN TO PURPOSE THEY SERVE & SPACE THEY OCCUPY. SIZE AS REQUIRED FOR SPECIFIC FUNCTION OR AS REQUIRED BY NFPA 70, WHICHEVER IS LARGER.
     1) LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE.
   - B. SET ALL OUTLET BOXES IN WALLS, COLUMNS, FLOORS, OR CEILINGS SO THEY ARE FLUSH W/ FINISHED SURFACE, ACCURATELY SET, & RIGIDLY SECURED IN POSITION. PROVIDE PLASTER RINGS, EXTENSION RINGS &/OR MASONRY RINGS AS REQ'D FOR FLUSH MOUNTING. PROVIDE APPROVED CAST OUTLET BOXES, W/ HUBS & WEATHERPROOF COVERS, IN ALL AREAS SUBJECT TO DAMP, WET, OR HARSH CONDITIONS.
   - C. COORDINATE LOCATIONS OF OUTLET BOXES. OUTLETS ARE ONLY APPROX LOCATED ON SMALL SCALE DRAWINGS. USE GREAT CARE IN ACTUAL LOCATION BY CONSULTING VARIOUS LARGE SCALE DETAILED DRAWINGS USED BY OTHER DIVISION TRADES, & BY SECURING DEFINITE LOCATIONS FROM ARCHITECT.
   - D. ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" AFF FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS & CABINETRY COORDINATION.
7. CIRCUIT BREAKERS IN EXISTING PANELBOARDS
   - A. PROVIDE NEW CIRCUIT BREAKERS, FOR INSTALLATION IN EXISTING PANELBOARDS, OF SAME MANUFACTURER, TYPE & SHORT CIRCUIT CURRENT INTERRUPTING RATINGS AS EXISTING PANELBOARD CIRCUIT BREAKERS.
8. WIRING DEVICES
   - A. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.
   - B. CONVENIENCE OUTLETS:
     1) SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFCI RATED DEVICES WHERE INDICATED & AS REQ'D PER CODE.
     2) EQUIVALENT DEVICES BY COOPER/EATON, HUBBELL, LEVITON, PASS & SEYMOUR/LEGRAND
   - C. SWITCHES:
     1) LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.
     2) WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERRIDE.
     3) CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS & RELAYS.
     4) WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.
     5) DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS. CONTINUOUSLY ADJUSTABLE SLIDER; WITH SINGLE-POLE OR THREE-WAY SWITCHING. COMPLY WITH UL 1472. 600W OR 1200W AS REQUIRED BY LOAD.

        INCANDESCENT LAMP DIMMERS: 120 V; CONTROL SHALL FOLLOW SQUARE-LAW DIMMING CURVE. ON-OFF SWITCH POSITIONS SHALL BYPASS DIMMER MODULE.

        LED DIMMERS: MODULAR; COMPATIBLE WITH DIMMING DRIVERS IN FIXTURE(S); IF OTHER THAN 0-10V DIMMING IS PROVIDED, VERIFY DIMMER IS COMPATIBLE WITH DRIVER FOR FULL RANGE OF DIMMING (100-10%).
     6) EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSTOPPER, LITHONIA, SENSOR SWITCH.
   - D. WEATHERPROOF COVER PLATES:
     1) PROVIDE GFCI RECEPTACLES FOR WEATHERPROOF RECEPTACLES.
     2) FOR WET LOCATIONS: IN-USE NEMA 3R, UL-LABELED PLATES DIE CAST METAL AND LOCKABLE.
     3) FOR DAMP LOCATIONS: UL-LISTED FOR WET LOCATIONS W/ COVER(S) CLOSED; DIE-CAST ALUMINUM OR TYPE 302 SS; SINGLE-COVER FOR SWITCHES & VERTICALLY MOUNTED RECEPTACLES; DOUBLE-COVER FOR HORIZONTALLY MOUNTED RECEPTACLES; SELF-CLOSING COVERS.
9. DISCONNECT (SAFETY) SWITCHES
   - A. DISCONNECT (SAFETY) SWITCHES: SQUARE D, SIEMENS, CUTLER HAMMER, OR GENERAL ELECTRIC FUSED OR NON-FUSED (AS INDICATED ON DRAWINGS OR REQUIRED) NEMA KS1, HEAVY DUTY, EXTERNALLY OPERATED, VISIBLE-BLADE SAFETY SWITCHES; NEMA ENCLOSURE TYPE INDICATED ON DRAWINGS OR SUITABLE FOR ENVIRONMENT IN WHICH INSTALLED. BASED ON FUSIBLE SWITCH & FUSE SIZES INDICATED, INCLUDE CLASS R, J, OR L FUSE PROVISIONS AS APPLICABLE.
   - B. WHERE INDICATED, PROVIDE FUSIBLE SWITCHES PERMANENTLY LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, W/ INTEGRAL & SEPARATE NEUTRAL & GROUND ASSEMBLIES, SUITABLE FOR SIZES OF CONDUCTORS INDICATED. DO NOT DOUBLE-LUG ANY TERMINATIONS NOT SPECIFICALLY LISTED AS SUITABLE FOR MORE THAN ONE CONDUCTOR.
   - C. PROVIDE SWITCHES WHERE NOT FURNISHED W/ STARTING EQUIPMENT, AT ALL OTHER POINTS REQUIRED BY NFPA 70, & WHERE INDICATED ON DRAWINGS.
10. LUMINAIRES, LAMPS & BALLASTS
    - A. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
    - B. EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, EATON (COOPER).
    - C. LED FIXTURES:
      1) LAMPS & MODULES: PHILIPS, GENERAL ELECTRIC, OSRAM/SYLVANIA, CREE, NICHIA.
      2) LED COMPONENTS, LAMPS, DRIVERS, AND FIXTURES SHALL COMPLY WITH: PCC 47 CFR PART 15; UL 8750; ANSI/NEMA STANDARDS C78.377, NEMA SSL-1, C82.77, IESNA STANDARDS TM-16-05, RP-16, LM-79, LM-80 AND TM-21.
      3) DRIVERS SHALL BE INTEGRAL TO THE FIXTURE UNLESS OTHERWISE SHOWN OR SPECIFIED.
    - D. EMERGENCY BALLASTS/DRIVERS/BATTERIES/INVERTERS - SHALL BE BODINE, IOTA. COORDINATE VOLTAGES AND OUTPUTS FOR MIN. 90 MINUTE OPERATION WITH FIXTURES SCHEDULED AND CONTROLS INDICATED AND PROVIDED.
    - E. EXECUTION:
      1) PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.
      2) FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL BE PROVIDED & INSTALLED W/ FIRE RATED ENCLOSURES TO MAINTAIN CEILING INTEGRITY.
      3) POLES & SUPPORT COMPONENTS: COMPLY W/ AASHTO LTS-4. PROVIDE STEEL POLES IN COLOR AS SPECIFIED OR SELECTED BY ARCHITECT. PROVIDE BOLT COVERS. PROVIDE CONCRETE BASE FOR POLE & GROUND ROD.
11. ADJUSTING, ALIGNING & TESTING
    - A. ADJUST, ALIGN, & TEST ALL ELECTRICAL EQUIPMENT ON THIS PROJECT PROVIDED UNDER THIS DIVISION & ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS FOR INSTALLATION OR WIRING UNDER THIS DIVISION FOR PROPER OPERATION. TEST ALL SYSTEMS & EQUIPMENT ACCORDING TO REQUIREMENTS IN NETA ATS (LATEST EDITION) & ALL ADDITIONAL REQUIREMENTS SPECIFIED
    - B. IN FOLLOWING SECTIONS. MAINTAIN FOLLOWING ON PROJECT PREMISES AT ALL TIMES: TRUE RMS READING VOLTMETER, TRUE RMS READING AMMETER, & MEGOHMMETER INSULATION RESISTANCE TESTER. PROVIDE TEST DATA READINGS AS REQUESTED OR AS REQUIRED BY ENGINEER
12. SYSTEM START UP
    - A. PRIOR TO STARTING UP ELECTRICAL SYSTEMS:
      1) CHECK ALL COMPONENTS & DEVICES.
      2) LUBRICATE ITEMS ACCORDINGLY.
      3) TIGHTEN SCREWS & BOLTS FOR CONNECTORS & TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A & UL 486B.
      4) CHECK & RECORD BUILDING'S SERVICE ENTRANCE VOLTAGE, GROUNDING CONDITIONS, GROUNDING RESISTANCE, & PROPER PHASING.
    - B. REPLACE ALL BURNED-OUT LAMPS & LAMPS USED FOR TEMPORARY CONSTRUCTION LIGHTING IN PERMANENT LIGHT FIXTURES.
    - C. AFTER ALL SYSTEMS HAVE BEEN INSPECTED & ADJUSTED, CONFIRM ALL OPERATING FEATURES REQUIRED BY DRAWINGS & SPECIFICATIONS & MAKE FINAL ADJUSTMENTS AS NECESSARY.

END OF DIVISION 26000

SECTION 27000 - COMMUNICATIONS

1. GENERAL ELECTRICAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS.
2. TELECOMMUNICATIONS SYSTEMS PROVISIONS
   - A. PROVIDE INCOMING TELEPHONE AND/OR DATA SERVICE RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY SERVING TELECOMMUNICATIONS COMPANY.
   - B. PROVIDE FLUSH MOUNTED TELEPHONE AND/OR DATA OUTLET BOXES W/ 3/4-INCH EMT STUB-UP CONCEALED TO ACCESSIBLE CEILING SPACE AT LOCATIONS AS INDICATED ON DRAWINGS.

END OF DIVISION 27000

SECTION 28000 - SAFETY & SECURITY

1. GENERAL ELECTRICAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS.
2. EXISTING FIRE ALARM SYSTEM MODIFICATIONS
   - A. PROVIDE FOLLOWING NEW EQUIPMENT, COMPATIBLE W/, OR OF SAME MANUFACTURER AS, EXISTING FIRE ALARM CONTROL PANEL & SYSTEM, AT LOCATIONS INDICATED ON DRAWINGS, AS REQUIRED BY BUILDING CODES, LANDLORD, OR ALL THREE, & CONNECT TO EXISTING FIRE ALARM CONTROL PANEL:
     1) ADDITIONAL INITIATING DEVICES, INDICATING APPLIANCES, & INTERCONNECTING CIRCUITS.
     2) ADDITIONAL ZONE MODULES REQUIRED BY NEW ZONING.
     3) NEW AMPLIFIERS & OTHER EQUIPMENT THAT MAY BE REQUIRED TO INCORPORATE NEW INITIATING DEVICES & INDICATING APPLIANCES INTO EXISTING SYSTEM.
     4) A NEW ZONE MAP, INCLUDING ALL EXISTING ZONES & ALL NEW ZONES, FRAMED, MOUNTED UNDER GLASS, & INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL. HORN/STROBES SHALL MEET ALL REQUIREMENTS OF ADA.
   - B. INSTALL ALL WIRING IN RACEWAY.
   - C. WHERE ACCEPTABLE TO AHJ, PLENUM RATED CABLES MAY BE USED ABOVE SUSPENDED ACCESSIBLE CEILINGS.
   - D. EXECUTION:
     1) SUBMIT SHOP DRAWINGS W/ WIRING DIAGRAMS & BATTERY CALCS FOR APPROVAL TO FIRE MARSHAL & AHJ.
     2) COORDINATE TO PROVIDE POWER & SHUTDOWN OR OPERATION OF FIRE/SMOKE DAMPERS, DOOR HOLD OPENS, POWER TO DOOR LOCKS &ACCESS CONTROL & OTHER SIMILAR SYSTEMS.
     3) INSTALLED & TESTED PER NFPA 72 & APPLICABLE SECTIONS OF NFPA 70. PROVIDE COMPLETE FIRE ALARM SYSTEM AS DESCRIBED HEREIN & SHOWN TO BE WIRED, CONNECTED, & IN FIRST CLASS CONDITION. INCLUDE SUFFICIENT CONTROL UNIT(S), ANNUNCIATOR(S), MANUAL STATIONS, AUTOMATIC FIRE DETECTORS, SMOKE DETECTORS, AUDIBLE & VISIBLE NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, & ALL NECESSARY MATERIAL FOR COMPLETE OPERATING SYSTEM.

END OF DIVISION 28000

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13300 W 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

23.002

JOHNSON CO COURTHOUSE
EAST AND WEST ENTRANCES
300 NORTH HOLDEN STREET
WARRENSBURG, MISSOURI 64093

STATE OF MISSOURI
DAVID LAWRENCE DEATHERAGE
NUMBER E-29880
REGISTERED PROFESSIONAL ENGINEER
12/12/23
David Lawrence Deatherage - Engineer
MO# E-29880

DATE: FEBRUARY 22, 2023

REVISION & DATE:

ELEC SPECIFICATIONS

SHEET NUMBER:

E201