

Electrical Service Replacement Benton Hall Nevada Habilitation Center Nevada, MO FOR CONSTRUCTION

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

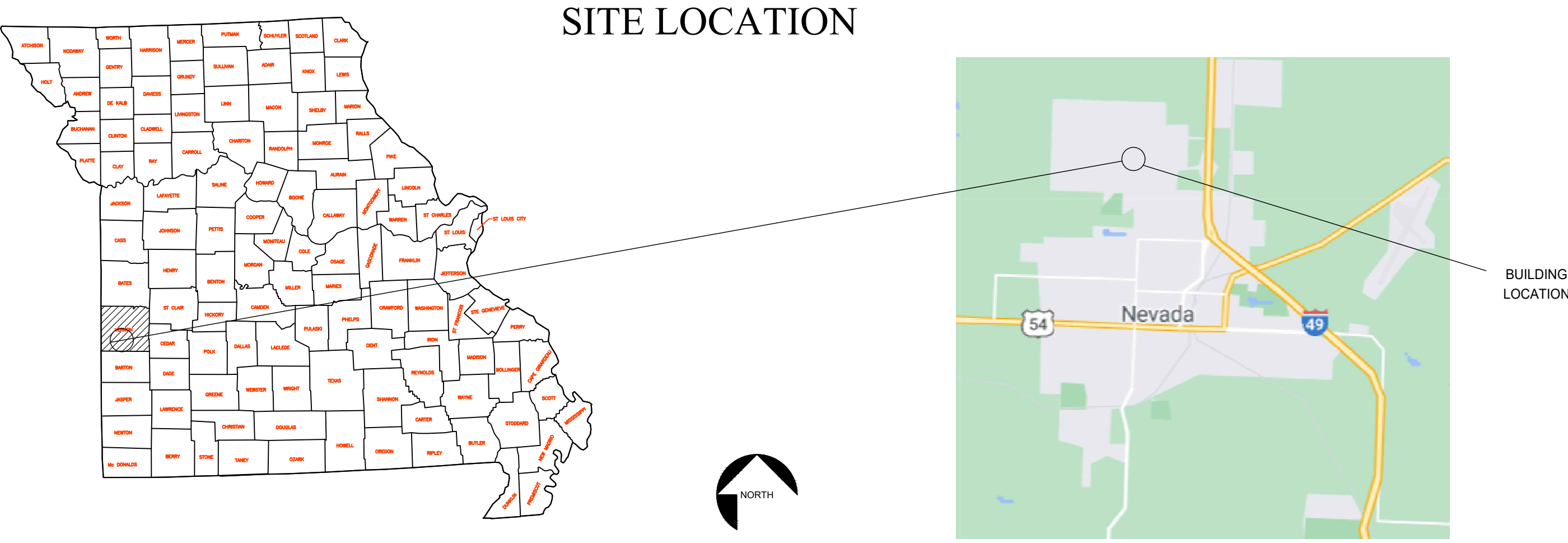
PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: LANKFORD FENDLER + ASSOCIATES
BNB DESIGN, LLC

PROJECT NUMBER: M2114-01

SITE NUMBER: 7351

FACILITY NUMBER: 6517351009



Architectural Designer of Record
Erin Bardon, AIA
Missouri, License #A-2001004065

Mechanical & Plumbing Engineer of Record
Alan Lankford, PE
Missouri, License #024224
Electrical Engineer of Record
Greg Fendler, PE
Missouri, License #2006037230

bnb design
architecture & interiors
115 n. nettleton - bonner springs, ks
913.422.5762 ph : 309.409.9258 fx

Lankford Fendler
+ associates
1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.1411 | Fax: 816.221.1429

STATE OF MISSOURI
MICHAEL L. PARSON,
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

ELECTRICAL
SERVICE REPLACEMENT

BENTON HALL
NEVADA HABILITATION
CENTER
NEVADA, MO

PROJECT # M-2114-01
SITE # 7351
FACILITY # 6517351009

REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____
ISSUE DATE: 08/22/2022

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DRAWN BY: BCD
CHECKED BY: AWL
DESIGNED BY: BCD

SHEET TITLE:
Cover Sheet

SHEET NUMBER:
G-001

1 OF 12 SHEETS
08/22/2022

THE FOLLOWING NOTES ARE AS A COURTESY AND DO IN NO WAY ABSOLVE THE CONTRACTOR FROM ANY FEDERAL, STATE, LOCAL, GUIDELINES AND ANY REQUIREMENTS AS LISTED IN THE SPECIFICATIONS.

HAZARDOUS MATERIALS GENERAL NOTES

ALL MATERIALS CONSIDERED OR SUSPECTED TO CONTAIN, MOLD, ASBESTOS, LEAD, PCBs, MERCURY OR OTHER KNOWN HAZARDOUS MATERIALS WILL BE HANDLED REMOVED AND DISPOSED OF ACCORDING TO ALL LOCAL, STATE, & FEDERAL REGULATIONS. GC SHOULD REFERENCE THE LIMITED ASBESTOS CONTAINING MATERIALS SAMPLING REPORT FOUND IN THE SPECIFICATION MANUAL

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Index of Drawings &
General Notes

SHEET NUMBER:

G-002

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08/22/2022

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MECHANICAL		
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APPLICABLE CODES AND STANDARDS

2019 INTERNATIONAL BUILDING CODE
NFPA 101, LIFE SAFETY CODE, 2019
2017 NATIONAL ELECTRIC CODE (NEC) NFPA 70

OCCUPANCY CLASSIFICATION

OCCUPANCY TYPE: I-1/ACCESSORY SPACES

ALLOWABLE / ACTUAL HEIGHT & AREA (IBC TABLE 503)

CONSTRUCTION TYPE:	TYPE II-B
SPRINKLED:	YES
ALLOWABLE HEIGHT:	4 STORY, 75 FT
ACTUAL HEIGHT:	1 STORY
ALLOWABLE AREA (PER STORY):	40,000 SF/FLOOR
ACTUAL AREA:	35,812 SF

FIRE RESISTIVE REQUIREMENTS (IBC TABLE 601 & 602)

STRUCTURAL FRAME:	0 HR
EXTERIOR BEARING WALLS:	0 HR
INTERIOR BEARING WALLS:	0 HR
EXTERIOR NONBEARING WALLS:	0 HR
INTERIOR NONBEARING WALLS:	0 HR
FLOOR CONSTRUCTION:	0 HR
ROOF CONSTRUCTION:	0 HR

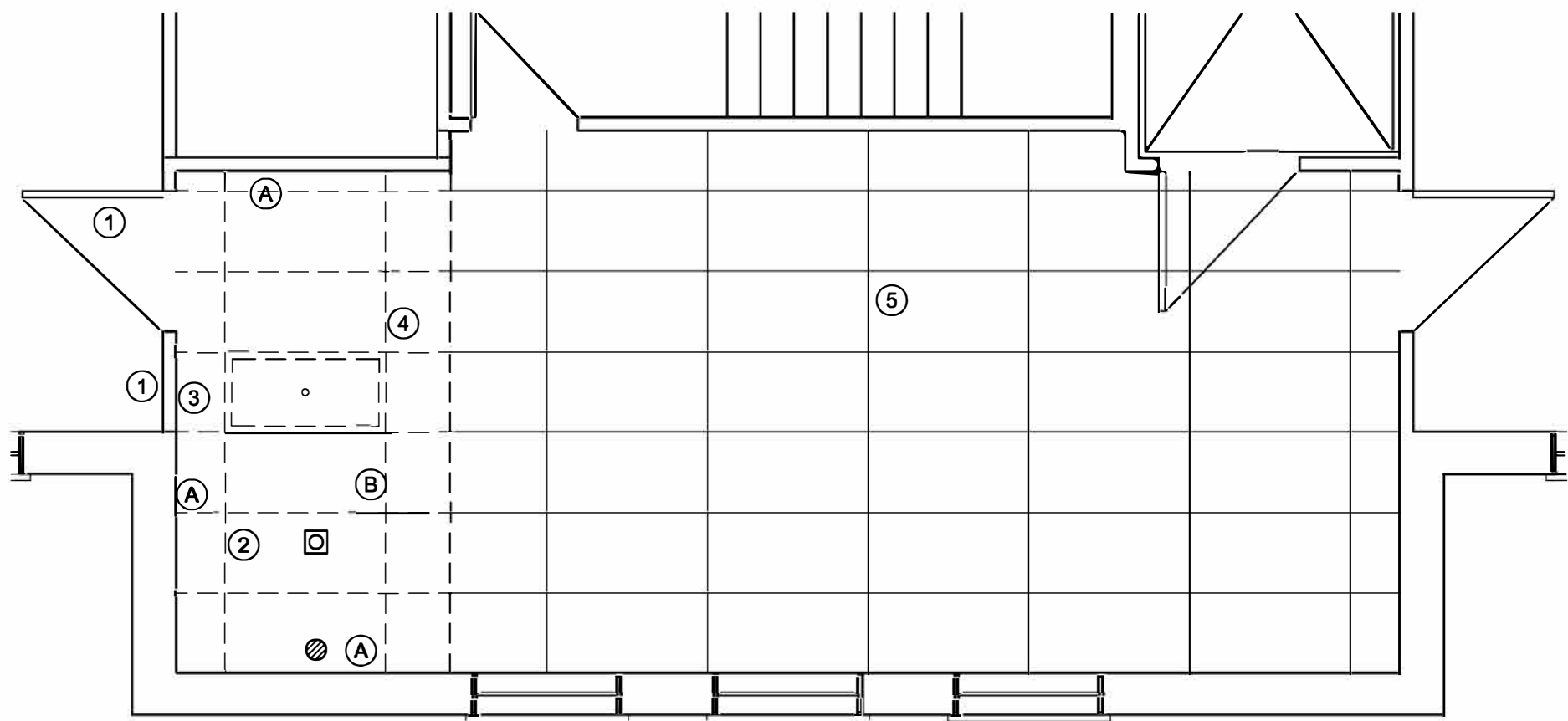
OCCUPANT LOAD: HAS NOT INCREASED WITH THE MODIFICATIONS IN THIS CONTRACT

B4 PARTIAL CODE REVIEW

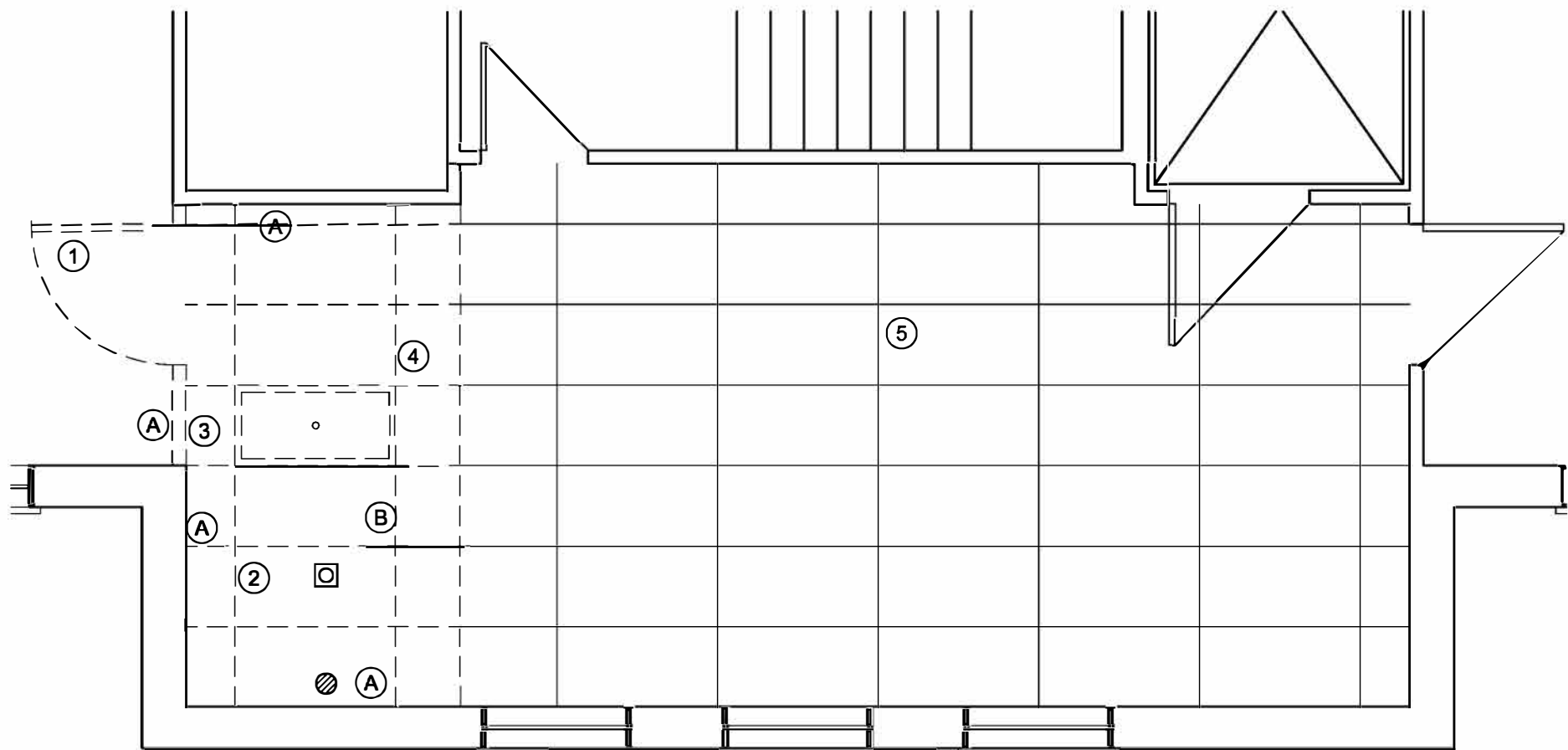
	EXISTING WALL TO BE REMOVED		COLUMN LINE
	EXISTING WALL		ELEVATION IDENTIFIER
	NEW INTERIOR PARTITION		WALL SECTION / BUILDING SECTION IDENTIFIER
	NEW PERSONNEL DOOR		TOILET ACCESSORY IDENTIFIER
	EXISTING PERSONNEL DOOR TO BE REMOVED		WINDOW TYPE IDENTIFIER
	EXISTING PERSONNEL DOOR TO REMAIN		PLAN NOTE IDENTIFIER
			PARTITION / WALL TYPE IDENTIFIER
			ROOM NAME IDENTIFIER
	PERSONNEL DOOR DOOR NUMBER		CEILING HEIGHT IDENTIFIER
	DETAIL IDENTIFIER		

A4 SYMBOLS

B3 GENERAL NOTES



BASE BID



ADD ALTERNATE NO.1

DEMOLITION GENERAL NOTES

Wet clean all contaminated surfaces thoroughly. Workers should wear disposable coveralls, shoes, hair covering, goggles, and a respirator approved by NIOSH (the National Institute of Occupational Safety and Health). Approved respirators will have an approval number on them, (i.e., TC-21C-xxx). Only HEPA (High Efficiency Particulate Air) respirators will filter lead dust and fumes. Simple paper or fabric dust masks will NOT protect a worker from lead dust.

Approved lead protection strategies

1. Encapsulate all exterior surfaces. These materials are applied over lead-based paint to seal the paint to a surface and prevent the release of paint chips or dust. The material may be either a liquid or an adhesive. Encapsulation provides a barrier between the paint and the environment.
2. Enclosure of all lead painted components.
3. Removal of paint by a lead abatement professional.
4. Complete removal of all lead painted component (windows, trim, etc).

All loose paint shall be abated prior to encapsulation.

AFTER ABATEMENT / REMOVAL / ENCAPSULATION

GC to utilize a swab style Lead check pre-packaged disposable lead swab to surface check areas for lead presence at 680ppm or greater. GC to continue additional encapsulation / removal / abatement until no lead contamination is detected.

LEAD ABATEMENT / REMOVAL / ENCAPSULATION KEY NOTES

- (A) REMOVE LOOSE WHITE PAINT ON WALL SURFACE PRIOR TO MULTI LAYER PAINT ENCAPSULATION
- (B) REMOVE LOOSE WHITE PAINT ON CEILING SURFACE (ABOVE LAYIN) CEILING PRIOR TO MULTI LAYER PAINT ENCAPSULATION

TYPICAL ALL ROOMS:
REMOVE AND PROPERLY DISPOSE OF THE FOLLOWING
CASEWORK
WINDOW TREATMENTS
FLOOR FINISHES
WALL BASE
DAMAGED ACOUSTICAL CEILINGS
PLUMBING FIXTURES
REMAINING FURNITURE AND EQUIPMENT AFTER
TURNOVER
ABANDONED EQUIPMENT, CONDUITS, PIPING CAP
WHERE REQUIRED

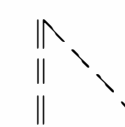
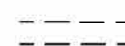
1. PROTECT ADJACENT MATERIALS TO REMAIN IN PLACE
2. PATCH AND REPAIR EXISTING INTERIOR WALL DAMAGE
3. REMOVE ALL ACCESSORIES RETURN TO OWNER IF REQUESTED
4. IF IN THE EVENT ANY MATERIAL IS DISCOVERED THAT IS SUSPECTED OF BEING HAZARDOUS DURING CONSTRUCTION MATERIAL SHALL BE TESTED AND DOCUMENTED PRIOR TO DEMOLITION PROCEEDING NOTIFICATION TO BE GIVEN TO GOVERNMENT CONTRACTING OFFICER FOR INSTRUCTION
5. REMOVE ALL LOOSE PAINT PREP SURFACES FOR NEW FINISH INSTALLATION
6. REFER TO MEP FOR MEP DEMOLITION NOTES

DEMOLITION KEY NOTES

- (1) BASE BID: DOOR AND WALL TO REMAIN.
- ADD ALTERNATE NO.1: REMOVE DOOR & HARDWARE PREP FOR WALL INFILL
- (2) REMOVE ALL EXISTING OUTLETS, SWITCHES , & COVERPLATES PREP FOR NEW, CHECK WIRING
- (3) REMOVE EXISTING WALL MOUNTED FIRE EXTINGUISHER, SAVE FOR REINSTALLATION
- (4) BASE BID: REMOVE EXISTING LAY IN CEILING AND INSTALL NEW EDGE ANGLE AND SUPPORT IT FROM THE STRUCTURE ABOVE TO SUPPORT EXISTING LAY IN CEILING TO REMAIN.
- ADD ALTERNATE NO.1: REMOVE EXISTING LAY IN CEILING THIS AREA, INSTALL NEW EDGE ANGLE AT NEW WALL TO SUPPORT EXISTING LAY IN CEILING TO REMAIN

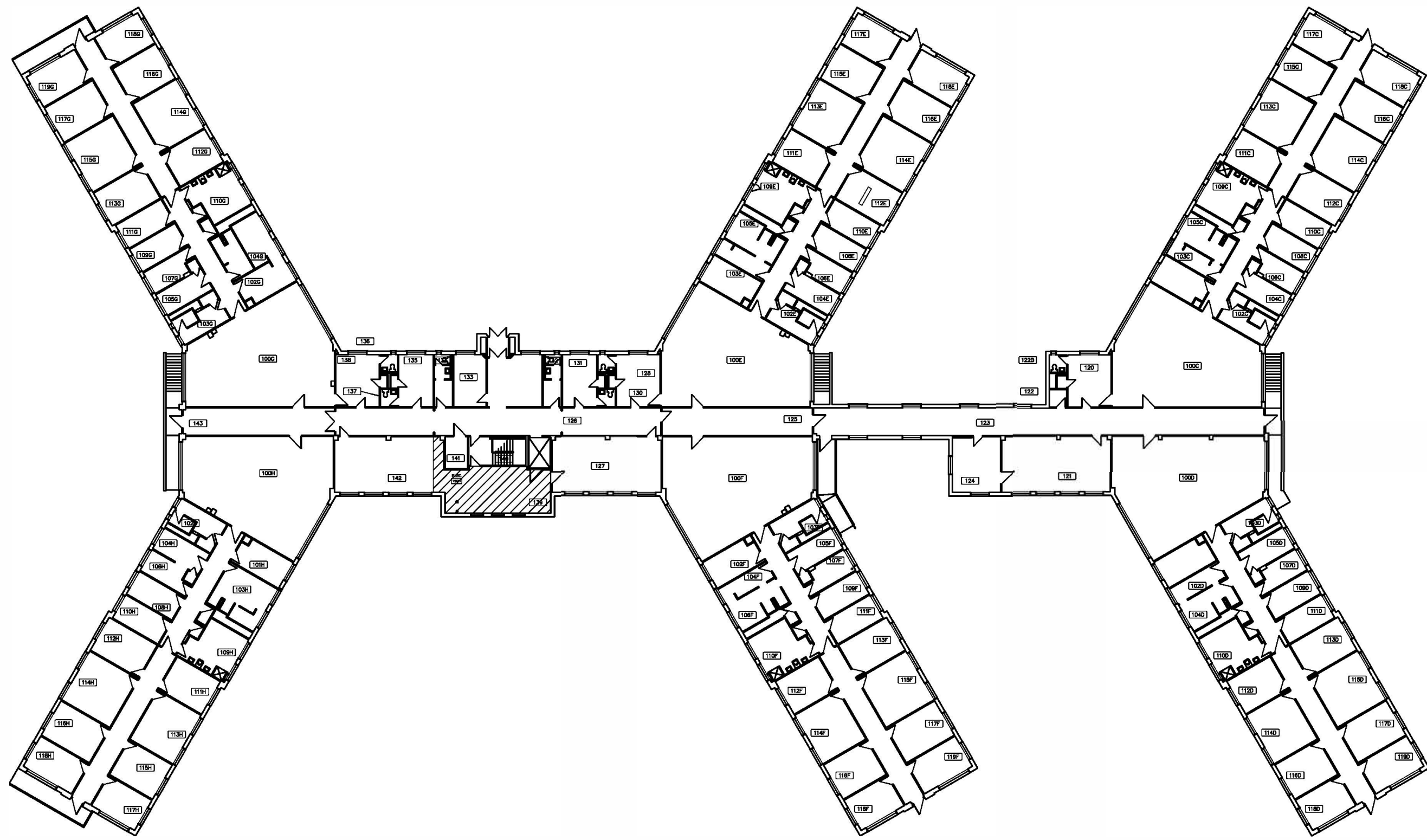
- (5) PROTECT EXISTING CEILING TO REMAIN

DEMOLITION LEGEND

-  DOOR FRAME AND HARDWARE TO BE REMOVED
-  WALL TO BE REMOVED

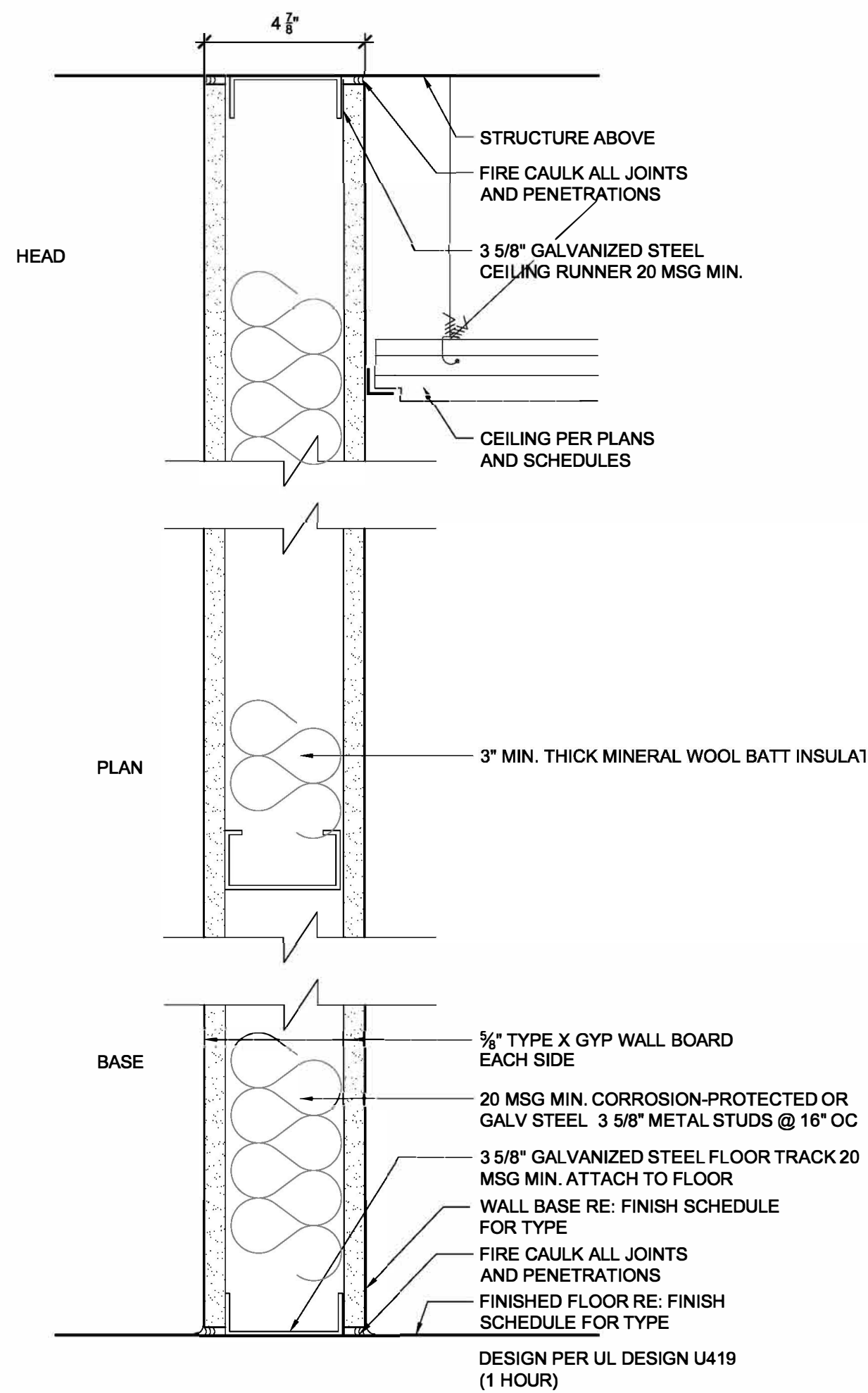
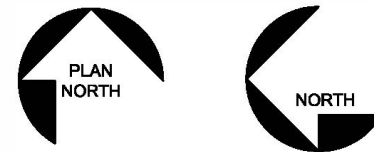
A1 PARTIAL DEMOLITION PLAN

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



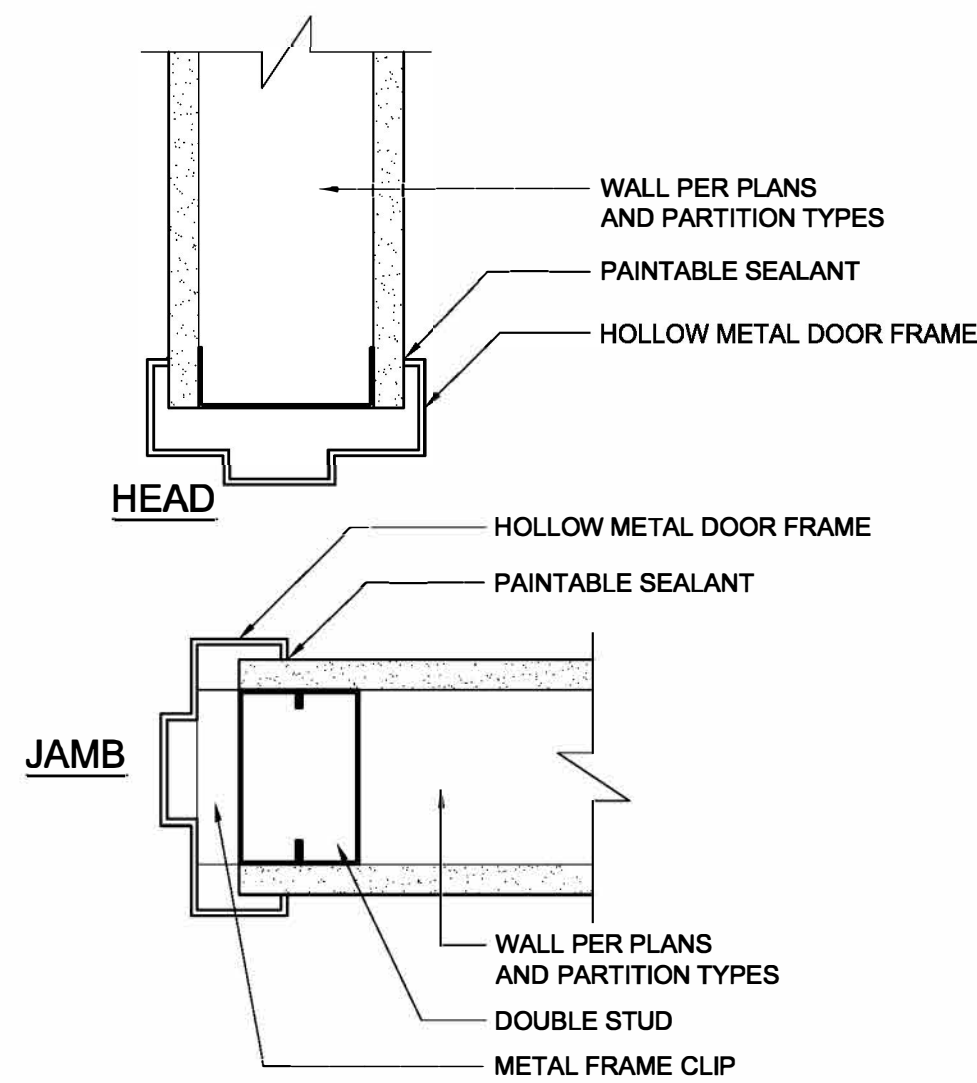
C2 LOCATION MAP

SCALE:1" = 30'-0"



A2 WALL TYPE 1

SCALE: 3" = 1'-0"



A3 DOOR FRAME

SCALE: 3" = 1'-0"

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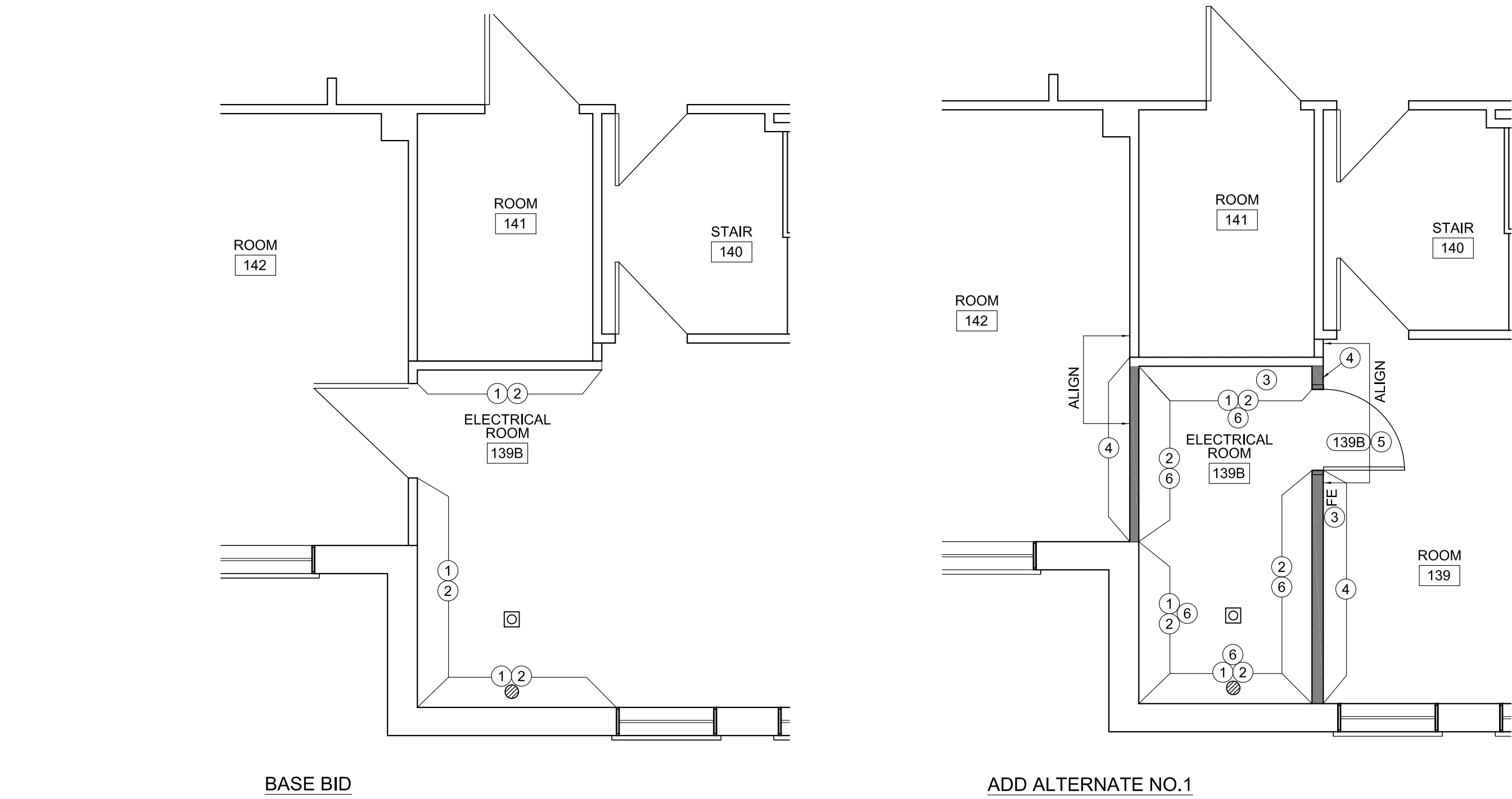
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Demomolition
Plan & Details

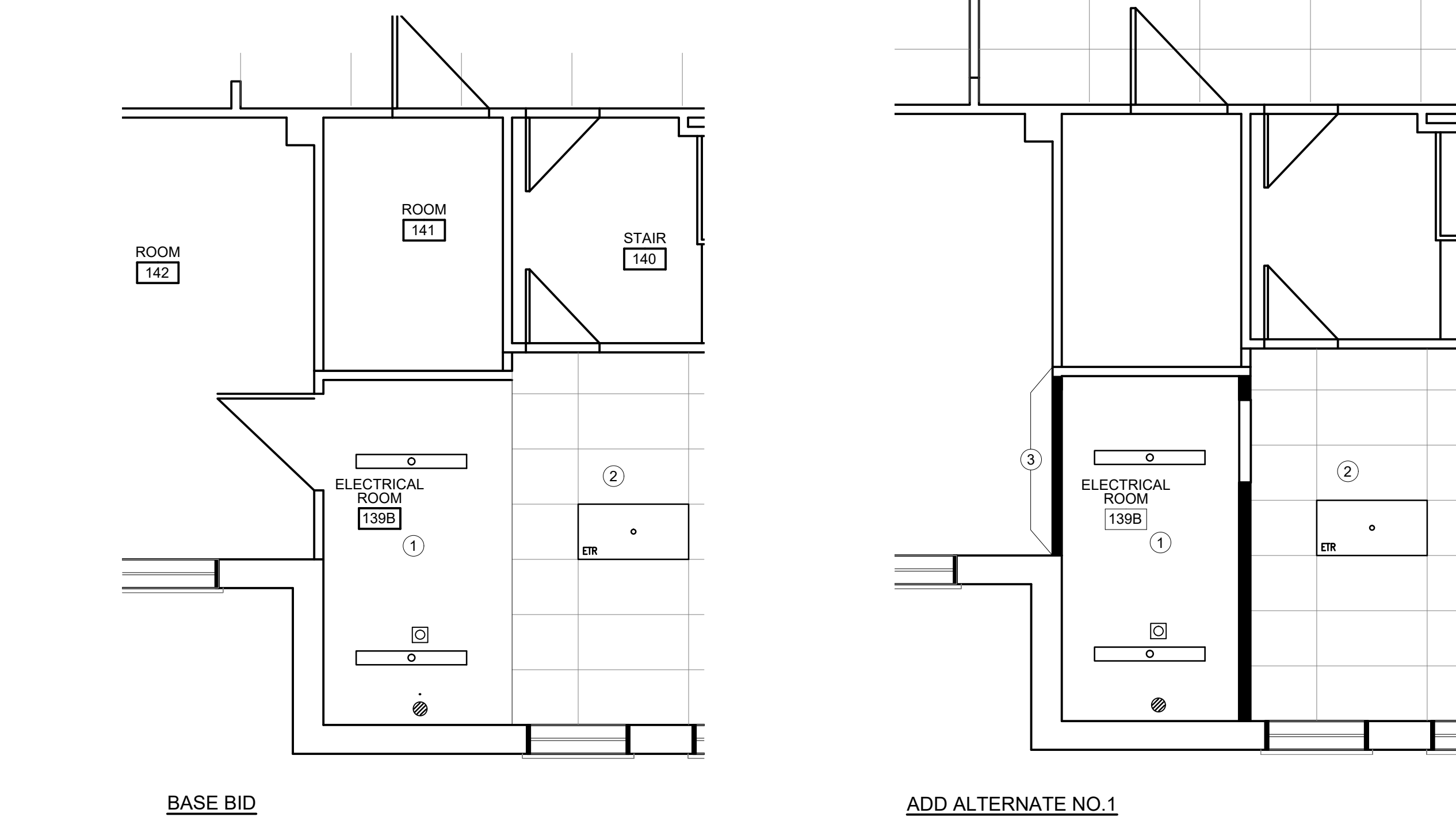
SHEET NUMBER:

A-100

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C1 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



C2 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- UNLESS NOTED OTHERWISE THE DIMENSION FROM THE CORNER OF THE ROOM TO THE INSIDE FACE OF DOOR JAMB (EDGE OF DOOR IN CLOSED POSITION) SHALL BE 4"
 - ALL WALLS TO BE TYPE 1 UNLESS NOTED OTHERWISE
 - ALL WALLS TO BE LEVEL 4 FINISH - THE PREPARED SURFACE SHALL BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPE WITH A JOINT KNIFE OR TROWEL, LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. IN ADDITION, TWO SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUNDS SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. THE PREPARED SURFACE SHALL BE COVERED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF THE FINAL FINISH.
- # KEY NOTES:
- EXISTING PLASTER WALL TO BE PATCHED, SKIM COATED, INCLUDING AREA ABOVE EXISTING LAYIN CEILING OR AT CONTRACTORS OPTION EXISTING WALLS MAY ALSO BE LAMINATED WITH 5/8" FIRE RATED GYP AND FINISHED TO LEVEL 4
 - PAINT ROOM P1 = SHERWIN WILLIAM 7005 PURE WHITE, 1 COAT PRIMER, 2 COAT FINISH, EGGSHELL WALLS
 - RELOCATED LOOP MOUNTED FIRE EXTINGUISHER MOUNT AT 48" AFF
 - DRYWALL TO BE MUD/TAPPED AND SANDED AND READY FOR FINISH. DO NOT PAINT.
 - HM DOOR & FRAME ENAMEL SEMI GLOSS, SHERWIN WILLIAMS, 7075 WEB GRAY
 - PROVIDE JOHNSONITE 6" RUBBER BASE, COLOR TO MATCH EXISTING, ROLL GOODS ONLY

RCP GENERAL NOTES:

- ALL EXPOSED CONDUITS TO BE REATTACHED
 - ABANDONED PIPING / CONDUITS TO BE REMOVED
 - REMOVE ALL SCALING / LOOSE PAINT REPAINT CEILING
- PATCH AND REPAIR EXISTING PLASTER CEILING TO LIKE NEW CONDITION
 - EXISTING CEILING TO REMAIN, RESEAT EXISTING TILE
 - REPAIR EXISTING CEILING AT NEW WALL CONSTRUCTION FOR LIKE NEW CONDITION

REFLECTED CEILING PLAN KEY

- NEW SURFACE MOUNTED LED FIXTURE RE MEP
- 2 HEAD LED EMERGENCY LIGHT
- EXISTING 2x4 LED CEILING FIXTURE TO REMAIN

construction notes

- G.C. TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL NEW DOORS TO PROVIDE 32" MIN CLEAR OPENING WHEN OPENED TO 90 DEGREE POSITION UNO.
- STANDARD COMMERCIAL CONSTRUCTION PRACTICES SHALL GOVERN WORKMANSHIP/ MATERIALS/ DESIGN, EXCEPT AS THESE VARIOUS ELEMENTS MIGHT BE MODIFIED OR AMENDED BY THESE CONSTRUCTION DOCUMENTS (CD, HEREFTER). ANY NOTE OR INDICATION SHOWN OR IMPLIED WHICH DOES NOT CONFORM TO THE LETTER OR SPIRIT, SO DEFINED SHALL BE BROUGHT TO THE ATTENTION OF bnb DESIGN, LLC. IN WRITING, FOR REVIEW. bnb DESIGN, LLC. AS REFERRED TO SHALL MEAN THE AUTHORIZED PROJECT MANAGER, bnb DESIGN, LLC.
- DIMENSIONS ON DRAWINGS ARE FINISH FACE TO FINISH FACE OF PARTITIONS, COLUMNS, ETC., OR TO WHERE SHOWN, UNLESS OTHERWISE NOTED. DO NOT SCALE DRAWINGS WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN OR DIMENSION.
- GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS.
- A. ALL 'HOLD' DIMENSIONS SHALL BE MONITORED TO ASSURE CORRECTNESS.
- B. ANY DIMENSION REVISIONS/ MODIFICATIONS ARE TO BE BROUGHT TO ATTENTION OF ARCHITECT PROJECT MANAGER FOR REVIEW/ APPROVAL.
- ANY ACCESS PANELS REQUIRED IN ANY CONSTRUCTION SHALL BE APPROVED AS TO SPECIFIC SIZE, LOCATION, FINISH, ETC., BY ARCHITECT.
- GC, SUBCONTRACTORS, AND ALL VENDORS ARE TO VERIFY ALL CLEARANCES (CORRIDORS, DOORWAYS, ETC.) REQUIRED FOR DELIVERIES, PASSAGE OF ALL JOB MATERIALS/EQUIPMENT.
- ALL VERTICAL DIMENSIONS SHALL BE TAKEN FROM "BENCH MARK" OR OTHER SIMILAR GUIDE ESTABLISHED PRIOR TO START OF CONSTRUCTION. HIGH POINTS, LOW POINTS, IRREGULARITIES IN FLOOR SLAB, PARTICULARLY, WHICH COULD IN ANY WAY AFFECT FABRICATION/ INSTALLATION WORK OF OTHER TRADES OR VENDORS (E.G., CABINET CONTRACTORS), SHALL BE BROUGHT TO ATTENTION OF ARCHITECT.
- GC SHALL PROVIDE GENERAL CARPENTRY AS REQUIRED FOR WORK WHICH MAY NOT FALL INTO JURISDICTION OF A SPECIFIC TRADE, BUT IS REQUIRED FOR PROPER JOB EXECUTION.
- ALL CONVENTIONAL DRYWALL CONSTRUCTION, FURRING, SHEATHING, DRYWALL JOINTS SHALL BE TAPED/ SPACKLED LEVEL. EXTERIOR CORNERS SHALL RECEIVE METAL CORNER REINFORCING BEAD AND BE SPACKLED IN CONVENTIONAL MANNER. NO HORIZONTAL DRYWALL JOINTS SHALL BE ACCEPTED. BUTTED, UNTAPED DRYWALL JOINTS ARE NOT ACCEPTABLE. FULL HEIGHT GYPSUM BOARD SHEETS SHALL BE USED THROUGHOUT FOR FULL HEIGHT CONSTRUCTION.
- ALL MODIFICATIONS TO APPROVED DESIGN SHALL BE SUBMITTED TO ARCHITECT BY GC FOR REVIEW/ APPROVAL. SUBSTITUTIONS MUST BE APPROVED BY bnb DESIGN, LLC & THE GOVERNMENT AND IN ACCORDANCE WITH SECTION 01 33 01

finish notes

- ALL FINISH MATERIAL INDICATED TO BE BY GC UNLESS OTHERWISE NOTED IN FINISH SCHEDULES(S) AND ON FINISH PLAN.
- GC AND VENDORS SHALL DETERMINE AVAILABILITY OF ALL FINISH MATERIALS. ANY DELIVERY SCHEDULE THAT POTENTIALLY MAY CAUSE COORDINATION PROBLEMS DURING THE FINAL STAGES OF CONSTRUCTION/ INSTALLATION SHALL BE BROUGHT TO ATTENTION OF bnb DESIGN, LLC, EARLY ON, FOR POSSIBLE REEVALUATION OF MATERIAL DESIGNATION.
- PAINT FOR WALL FINISHES SHALL BE PROVIDED AS A TWO (2) COAT EGGSHELL LATEX ENAMEL PAINT INSTALLATION (ONE (1) PRIME AND TWO (1) FINISHED COAT), COLORS AS SPECIFIED. METAL ELEMENTS AND DOOR AND WINDOW FRAMES SHALL HAVE A THREE COAT SEMI-GLOSS ALKYD ENAMEL FINISH.
- GC SHALL ASSURE THAT NO ELECTRIC RECEPTACLE OR TELECOMMUNICATIONS OUTLET COVERPLATES HAVE BEEN INSTALLED PRIOR TO COMPLETION OF APPLICATION OF ANY WALL FINISH MATERIALS. ANY SUCH COVERPLATES OR SURFACE HARDWARE, ETC., IN PLACE, SHALL BE REMOVED PRIOR TO WALL FINISH APPLICATION OR PROTECT BY COVERING.
- UPON COMPLETION OF FINISH PHASE OF JOB, GC SHALL REMOVE ALL PAINT, WALLCOVERING PASTE, ETC., FROM WHERE IT HAS SPILLED, SPLASHED, OR SPATTERED.
- ALL OFFICE / GYP WALLS SHALL RECEIVE RUBBER BASE INSTALLATION EXCEPT WHERE OTHERWISE NOTED. ALL SURFACES RECEIVING BASE SHALL BE PREPARED AS REQUIRED.
- GC SHALL PROVIDE AND MAINTAIN COMPLETE PROTECTION FOR ALL NEW INSTALLED FLOOR FINISHES UNTIL ALL CONSTRUCTION WORK IS COMPLETE. PROTECTION SHALL BE REMOVED ONLY IMMEDIATELY
- GC SHALL PROVIDE CURRENT STOCK SAMPLES OF SPECIFIED FLOORING FINISHES FOR APPROVAL PRIOR TO ORDERING.
- GC, ALL VENDORS/ SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS, QUANTITIES, ETC., OF THEIR RESPECTIVE WORK.
- RUBBER BASE TO BE INSTALLED IN LONGEST LENGTH POSSIBLE. NO SECTIONS SHORTER THAN 5'-0" WILL BE ALLOWED.
- ALL FINISH MATERIALS TO BE FROM SAME DYE LOT.

rcp notes

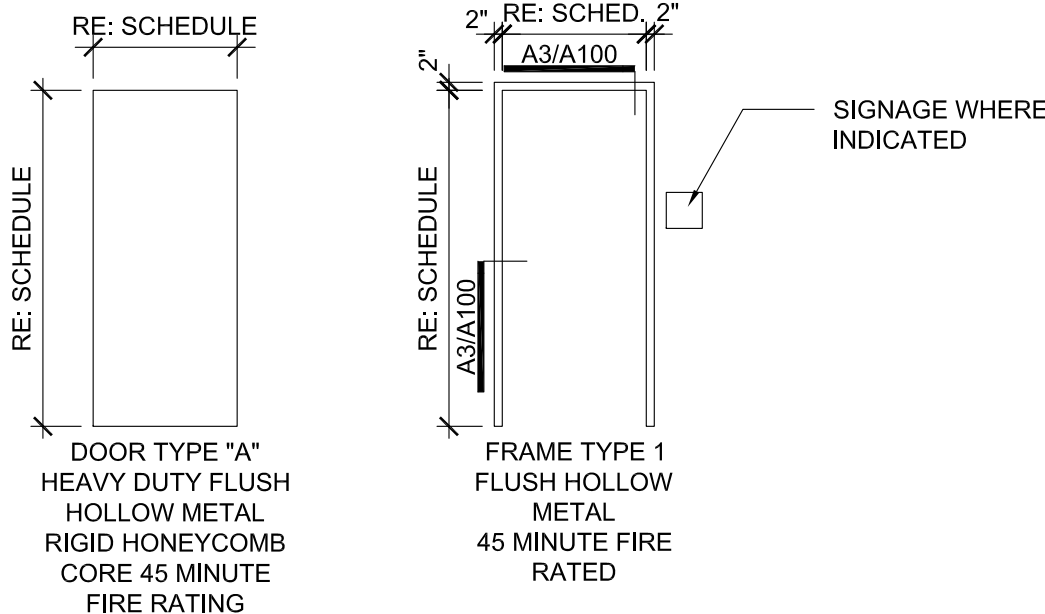
- CEILING PLANE SHALL BE LEVEL AND TRUE, AND IN ALIGNMENT WITH ALL LIGHTING, HVAC AND OTHER ELEMENTS INCORPORATED IN ITS CONSTRUCTION.
- ACOUSTICAL CONTRACTOR SHALL COORDINATE WORK WITH CARPENTRY TRADES TO PROVIDE FOR A NEAT, LEVEL VISUAL LINE AT THE INTERSECTION OF CEILING AND PARTITIONS.
- MECHANICAL, HVAC AND PLUMBING ELEMENTS SHALL AT NO TIME COME IN CONTACT WITH CEILING CONSTRUCTION EXCEPT AS NECESSARY PENETRATIONS MAY REQUIRE.
- ACCESS SHALL BE PROVIDED BY GC AS REQUIRED FOR INSTALLATION AND MAINTENANCE OF MECHANICAL, ELECTRICAL AND OTHER ELEMENTS WITHIN CEILING PLENUM AND AS REQUIRED BY CODE. LOCATIONS FOR SPECIAL ACCESS DOORS, HATCHES, ETC. SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY ARCHITECT. AS-BUILT REFERENCE PLANS SHALL BE PROVIDED TO ARCHITECT.
- INSPECTIONS, AS REQUIRED BY LOCAL AUTHORITIES SHALL BE COORDINATED BY GC PRIOR TO CLOSING OF CEILING.
- SHOP DRAWINGS FOR ALL RELATED TRADES (PLUMBING, HVAC) SHALL BE SUBMITTED TO bnb DESIGN FOR REVIEW /APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION. COORDINATED SHOP DRAWING FOR ALL VISIBLE CEILING ELEMENTS SHALL BE SUBMITTED.
- MECHANICAL AND ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ARCHITECTURAL DRAWINGS. ARCHITECTURAL CEILING PLAN SHALL GOVERN WITH RESPECT TO LOCATIONS FOR CEILING PENETRATIONS AS AESTHETIC AND FUNCTIONAL CONSIDERATIONS DICTATE.
- CUT SHEETS FOR ALL FIXTURES SHALL BE SUBMITTED TO ARCHITECT BY GC FOR REVIEW / APPROVAL. SUBSTITUTIONS MUST BE APPROVED BY bnb DESIGN, LLC & THE GOVERNMENT.
- MULTIPLE SWITCHES SHALL BE GANGED WITH SINGLE COMMON COVERPLATE.
- NEW SWITCHES SHALL MATCH EXISTING TYPE USED WHERE EXISTING SWITCHES ARE TO REMAIN.
- CLEANING: BEFORE JOB COMPLETION, THE FOLLOWING SHALL BE SATISFIED: ALL LIGHT FIXTURE INTERIORS AND LENSES SHALL BE WIPED CLEAN OF ALL CONSTRUCTION DUST, GRIME, FINGERMARKS, ETC., AND BE FULLY FUNCTIONING, MECHANICALLY AND ELECTRICALLY. PROTECTION: ALL ELECTRICAL ELEMENTS, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE BY OTHER TRADES. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN INSTALLED.
- ALL LIGHTING TO BE WARM WHITE.

B1 PLAN NOTES

DOOR SCHEDULE

DR NO.	ROOM NAME	DR. TYPE	DOOR & FRAME COLOR	FRAME TYPE	DOOR SIZE	HEAD / JAMB	HARDWARE GROUP	FIRE RATING	SIGNAGE
139B	ELECTRICAL ROOM	A	PAINTED	1	3'-0" X 7'-0"	A3/A100	1	45 MINUTE	NEW SIGNAGE MATCH EXISTING

HARDWARE SET NO. 1 HAGER BB12719 FIVE KNUCKLE BALL BEARING STANDARD WEIGHT 4-1/2" X 4-1/2" 26D HINGES DOOR KNOB AND LOCKSET TO BE PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR GT - T STRIKE SQUARE CORNER PDQ INDUSTRIES, 7100 SERIES HEAVY DUTY DOOR CLOSER REGULAR ARM NATIONAL GUARD PRODUCTS, FIRE / WEATHER GASKET, 161VA ASSA ABLOY ROCKWOOD K1050 METAL KICK PLATE .05" THICK, 12" X 32", IVES FLOOR STOP, FS436 DOME STOP



A1 DOOR SCHEDULE AND DETAILS

A2 CONSTRUCTION NOTES

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FACILITY # 6517351009

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DATE:
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ISSUE DATE: 08/22/2022

CAD DWG FILE: AS NOTED
DRAWN BY: BCD
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DESIGNED BY: BCD

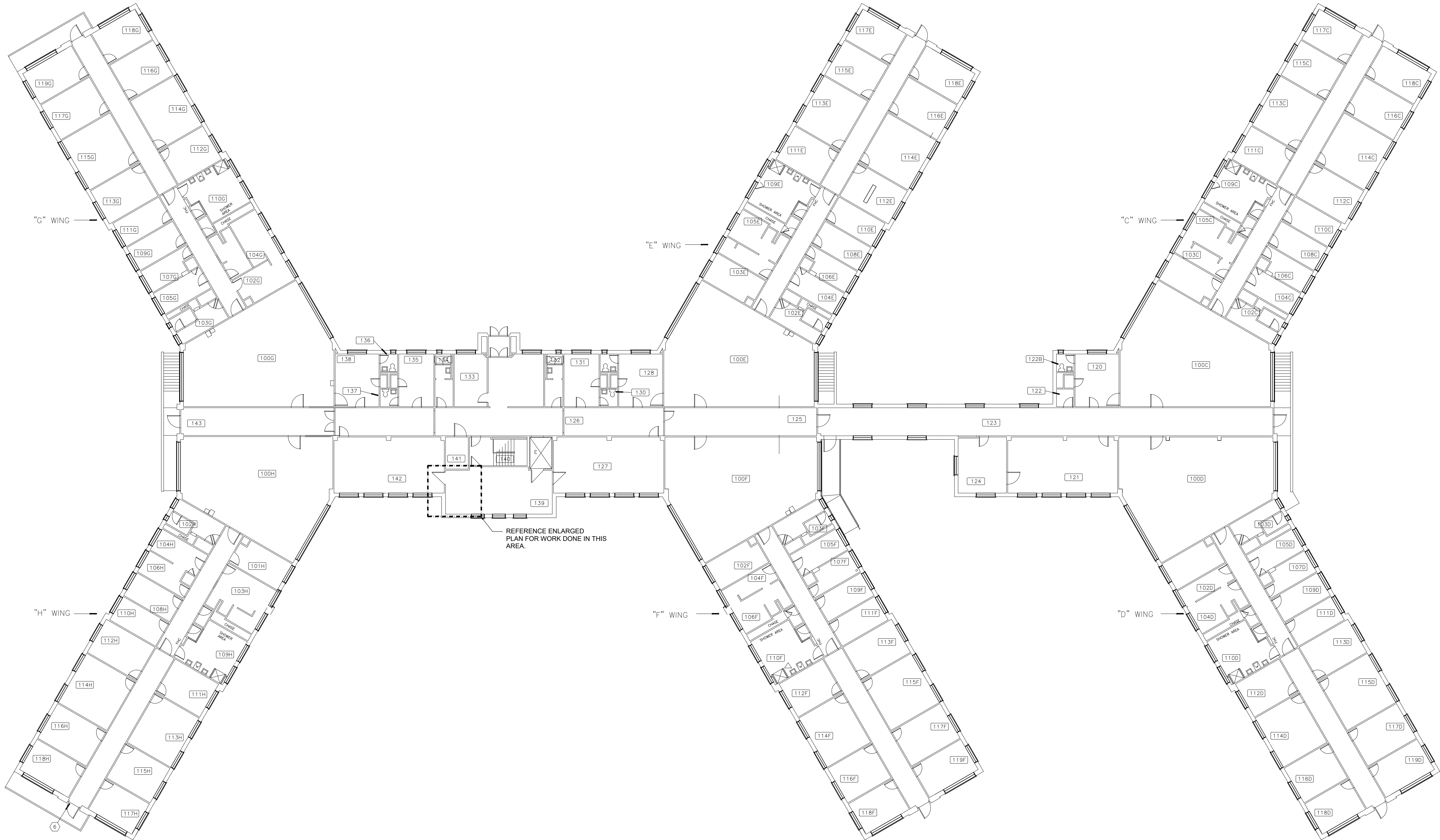
SHEET TITLE:

Floor & Reflected
Ceiling Plans

SHEET NUMBER:

A-101

4 OF 12 SHEETS
08/22/2022



FIRST FLOOR - MECHANICAL

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

FAN SCHEDULE												
MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN.W.G.)	RPM	DRIVE	WATTS	ELECTRICAL			NOTES
									VOLT	PHASE	HZ.	
EF-1	GREENHECK	SPA200	CEILING	220	0.25	900	DIRECT	60	120	1	60	1.2
NOTES: 1. PROVIDE WITH SPEED CONTROLLER, STANDARD GRILLE, HANGING VIBRATION ISOLATORS, AND INTEGRAL BACKDRAFT. 2. PROVIDE WITH ROBERTSHAW #803 LINE VOLTAGE RATE OF RISE THERMOSTAT, RANGE 50-90F.												

GRILLE SCHEDULE									
MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN.)	NECK SIZE (IN.)	FRAME TYPE	FINISH	NOTES
TG1	PRICE	530	LOUVERED	SIDEWALL	16x12	14x10	SURFACE	WHITE	1
NOTES: 1. FRONT BLADES SHALL BE PARALLEL TO THE LONG DIMENSION.									

GENERAL NOTES

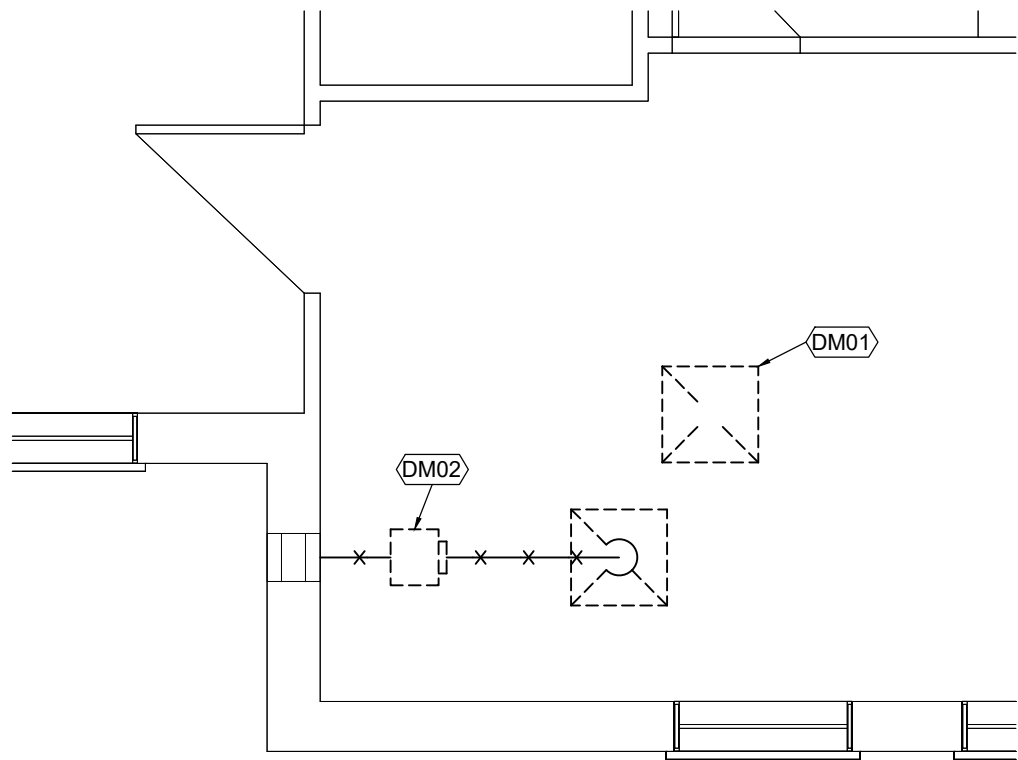
- MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFMS SHOWN ON PLANS.
- INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

FLOOR PLAN NOTES

- REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK UP TO ATTIC. PATCH CEILING TO MATCH.
- DISCHARGE SIDE: REMOVE EXISTING EXHAUST FAN, CONTROLS AND ASSOCIATED DUCTWORK. EXISTING WALL LOUVER TO REMAIN. RE: NEW WORK; ALTERNATE NO.1 INTAKE DUCTWORK AND GRILLE TO REMAIN.

FLOOR PLAN NOTES

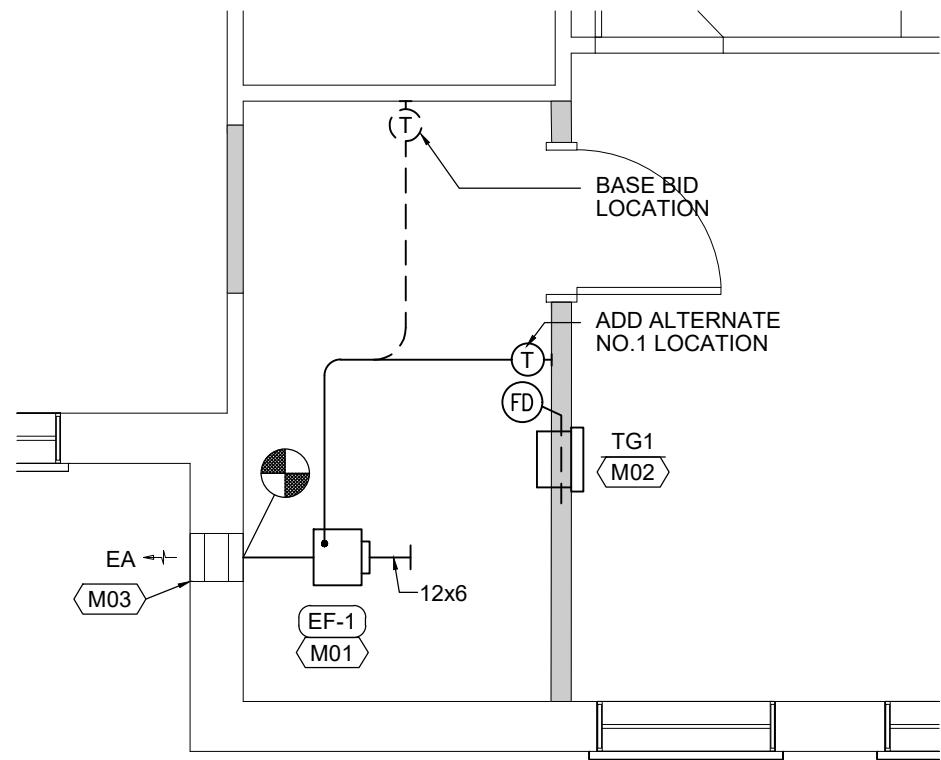
- BASE BIDE / ADD ALTERNATE NO.1: MOUNT EXHAUST FAN TIGHT TO STRUCTURE CONNECT FAN DISCHARGE TO EXISTING WALL LOUVER. SEAL AIR/WATER TIGHT.
- ADD ALTERNATE NO.1: MOUNT TRANSFER GRILLE 6" BELOW CEILING. PROVIDE SHEET METAL SLEEVE THRU WALL.
- EXISTING EXTERIOR LOUVER.



DEMOLITION WORK

ENLARGED PLAN FIRST FLOOR - MECHANICAL

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

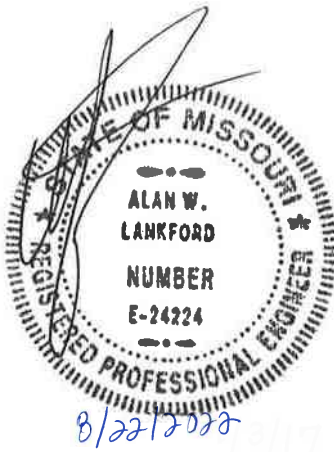


NEW WORK

ENLARGED PLAN FIRST FLOOR - MECHANICAL

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

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Lankford Fendler
+ associates

1730 Walnut Street Kansas City, Missouri 64108
1913 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.1411 | Fax: 816.221.1429
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ELECTRICAL
SERVICE REPLACEMENT

BENTON HALL
NEVADA HABILITATION
CENTER
NEVADA, MO

PROJECT # M-2114-01
SITE # 7351
FACILITY # 6517351009

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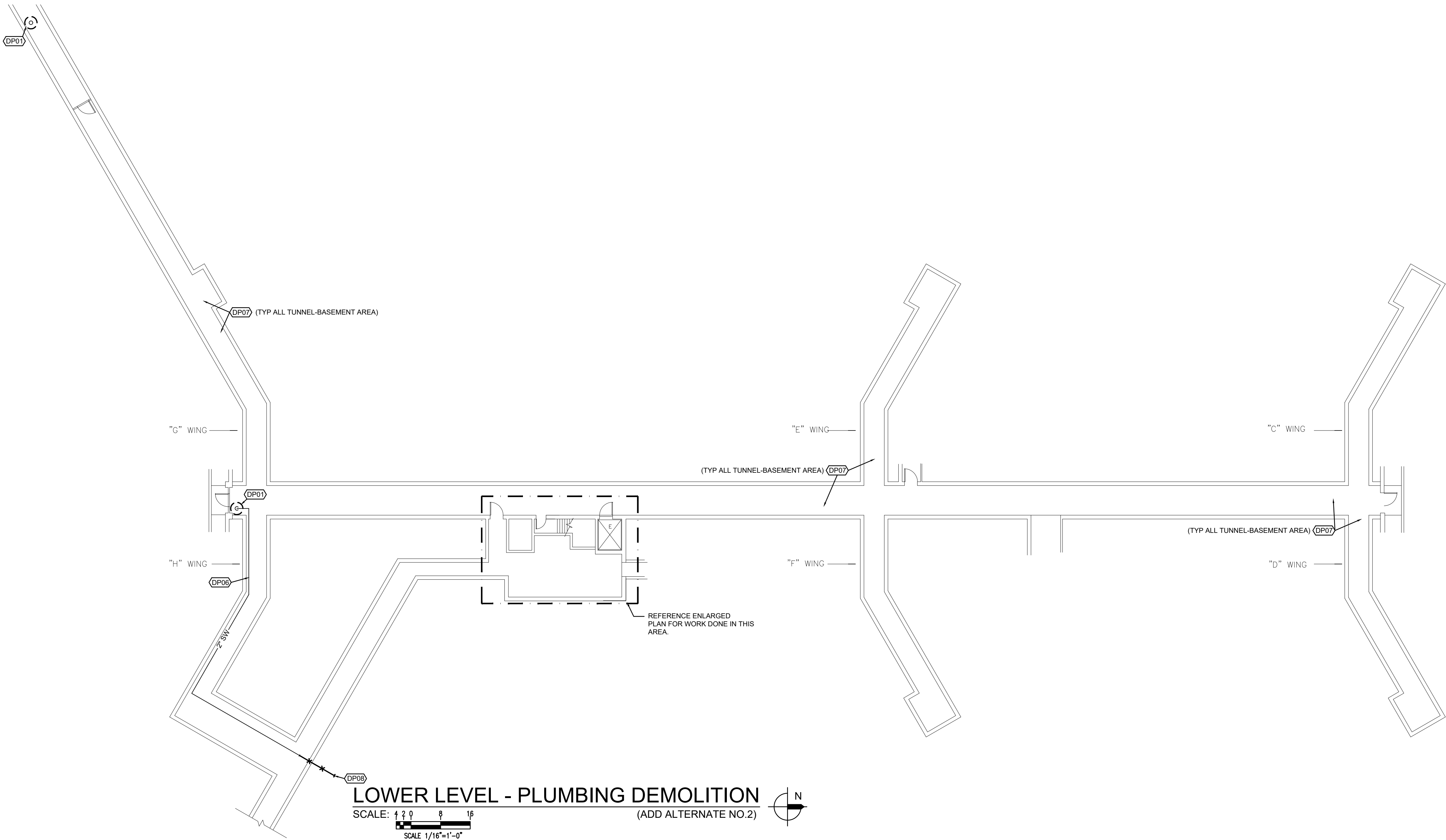
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FIRST FLOOR
PLAN -
MECHANICAL

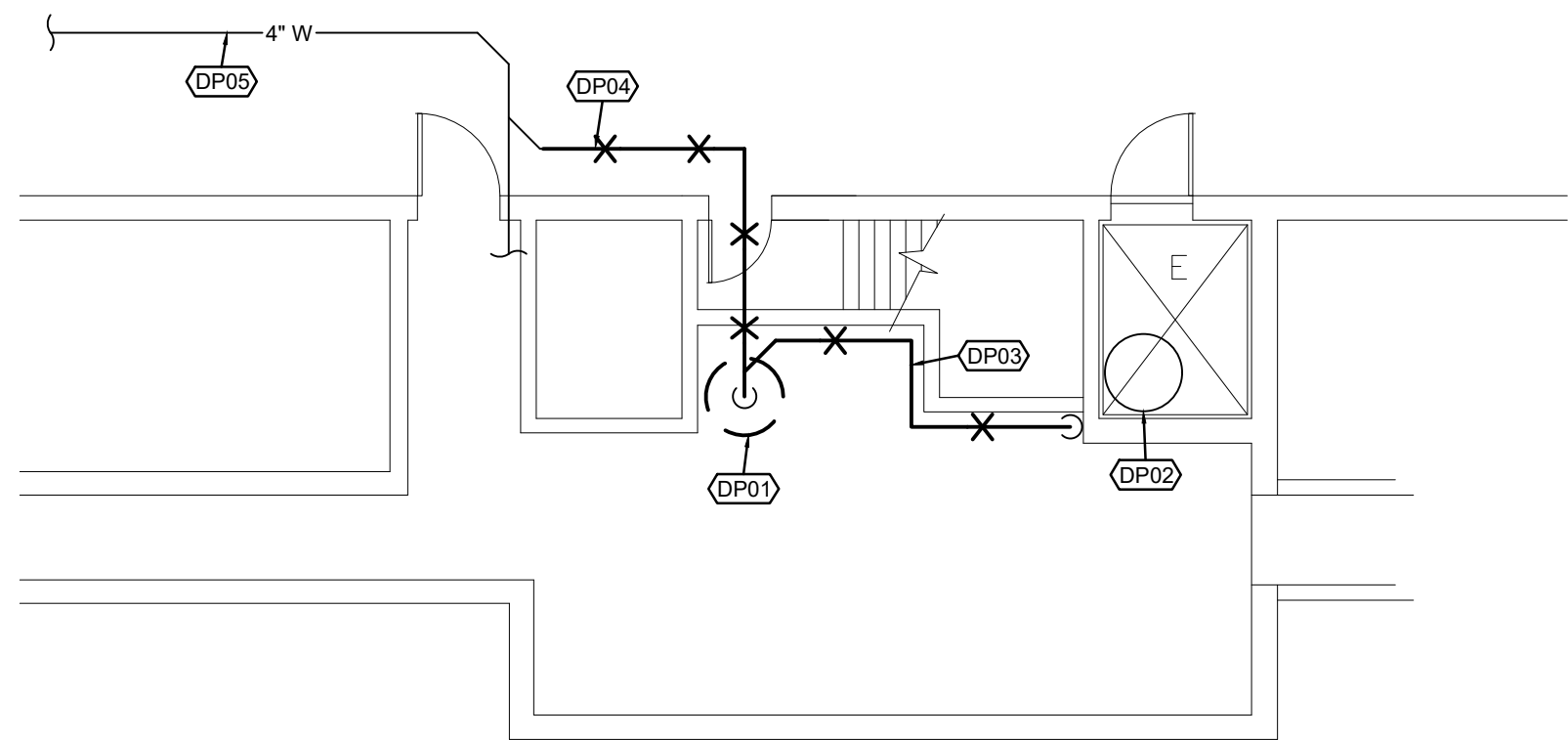
SHEET NUMBER:

M-100

5 OF 12 SHEETS
08/22/2022



LOWER LEVEL - PLUMBING DEMOLITION
SCALE: 1/16"=1'-0" (ADD ALTERNATE NO.2)



ENLARGED LOWER LEVEL
MECHANICAL ROOM - PLUMBING DEMOLITION
SCALE: 1/8\"/>

ALTERNATE No.2

FLOOR PLAN NOTES

1. REMOVE EXISTING SUMP PUMP AND PIPING WITH IN PIT. RETAIN PIPING ABOVE FLOOR FOR RECONNECTION UNDER NEW WORK.
2. EXISTING ELEVATOR PIT SUMP PUMP TO REMAIN.
3. REMOVE EXISTING PIPING BETWEEN SHAFT WALL AND PUMP P-3 DISCHARGE.
4. REMOVE EXISTING DISCHARGE PIPING AS INDICATED. CAP EXISTING SANITARY LINE.
5. EXISTING SANITARY PIPING TO REMAIN.
6. RETAIN EXISTING STORM DRAIN PIPING FOR RECONNECTION TO NEW PUMPS. RE: NEW WORK PLAN.
7. CONTRACTOR SHALL REMOVE ALL WATER FROM EXISTING BASEMENT AREA (INCLUDING ELEVATOR PIT AREA) IN PREPARATION OF NEW WORK COMMENCEMENT.
8. REMOVE EXISTING 2" SW TO OUTSIDE BUILDING AND CAP. SEAL WALL WATER TIGHT.

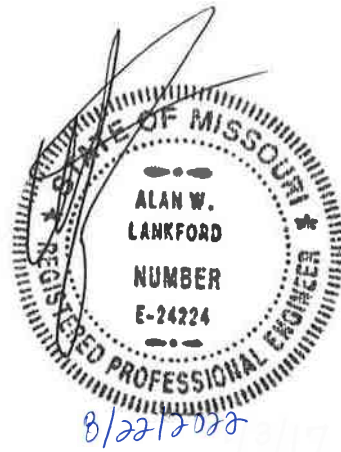
GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS ON JOB SITE.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- G. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50 R2C2UL OR EQUIVALENT.

PLUMBING SYMBOLS

- | | |
|--|--------------------------------|
| | EXISTING TO REMAIN |
| | EXISTING TO BE REMOVED |
| | NEW PIPING |
| | PIPE DROP/PIPE RISE |
| | CLEAN OUT |
| | EQUIPMENT TYPE AND DESIGNATION |
| | CONNECT TO EXISTING |

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Lankford Fendler
+ associates
1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.1411 | Fax: 816.221.1429
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ELECTRICAL
SERVICE REPLACEMENT

BENTON HALL
NEVADA HABILITATION
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NEVADA, MO

PROJECT # M-2114-01
SITE # 7351
FACILITY # 6517351009

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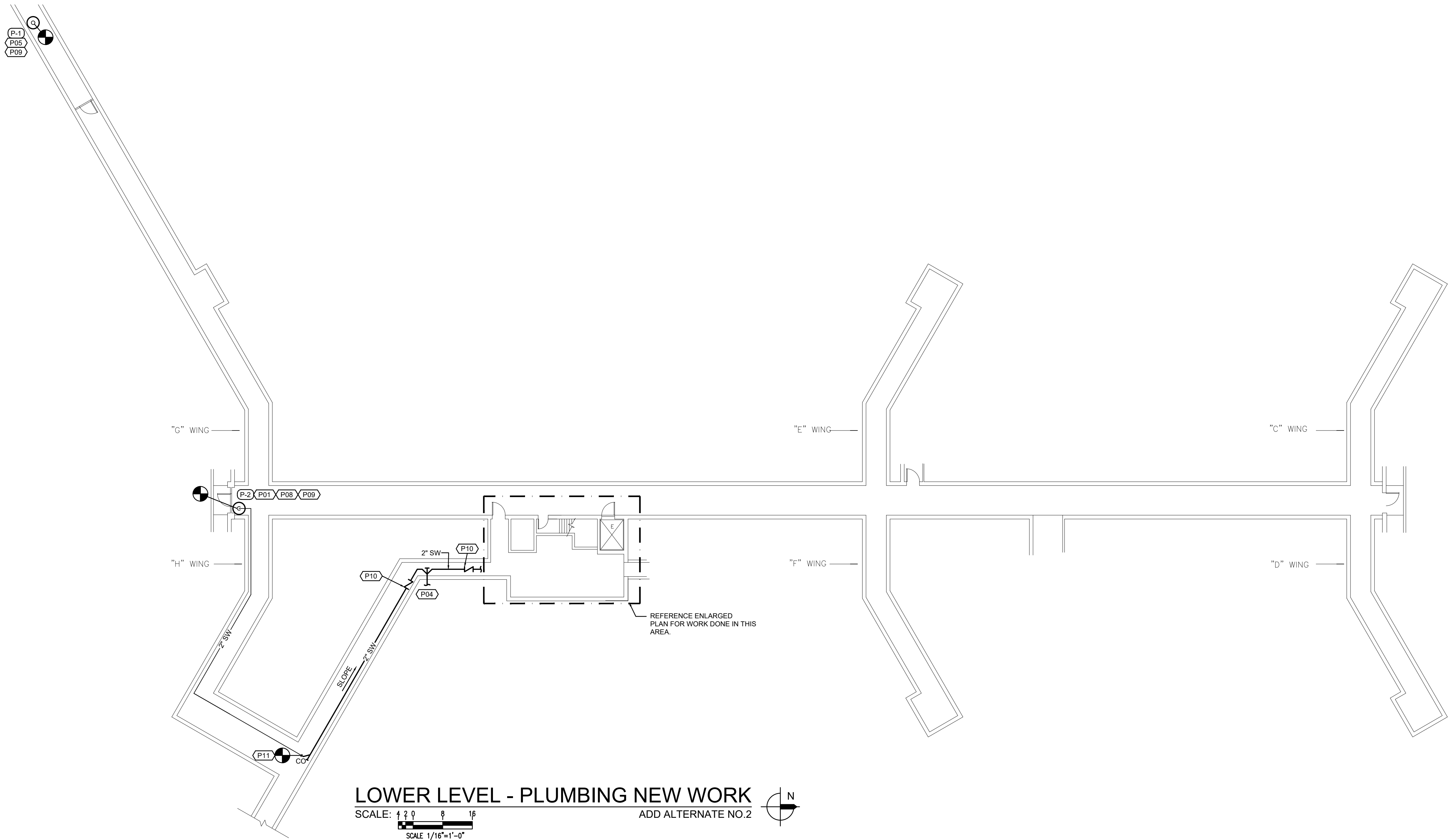
SHEET TITLE:

LOWER LEVEL
PLUMBING
DEMOLITION

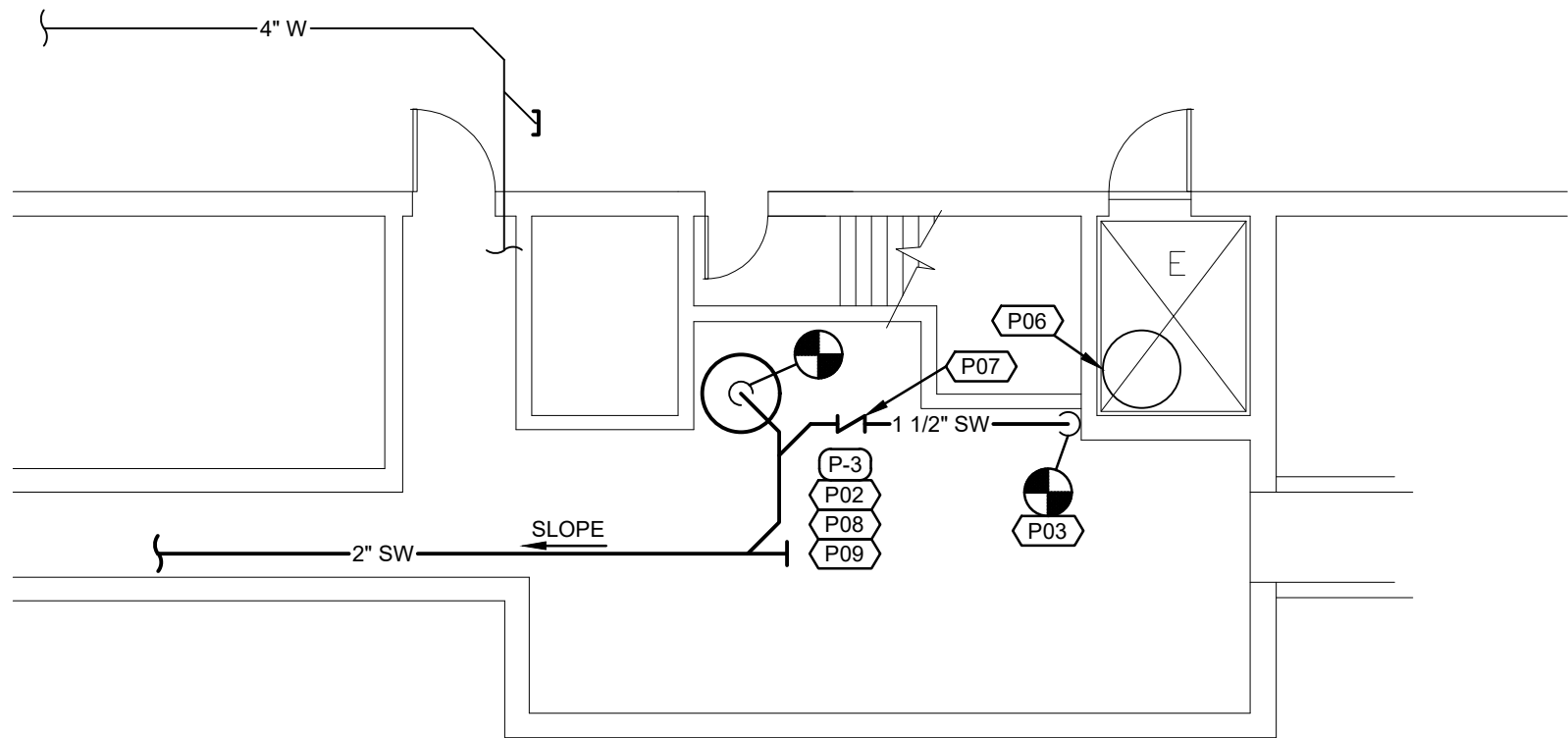
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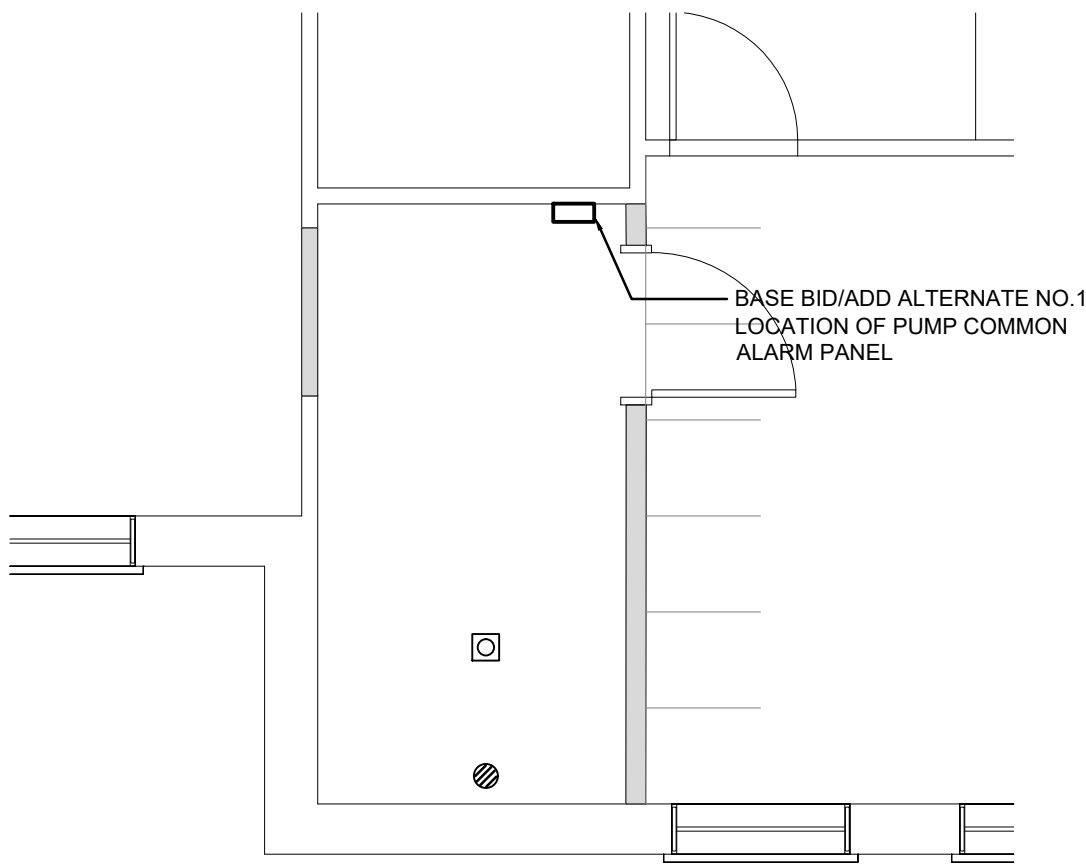
6 OF 12 SHEETS
08/22/2022



LOWER LEVEL - PLUMBING NEW WORK
SCALE: 1/16"=1'-0"
ADD ALTERNATE NO.2



ENLARGED LOWER LEVEL
MECHANICAL ROOM - PLUMBING NEW WORK
SCALE: 1/8"=1'-0"
ADD ALTERNATE NO.2



NEW WORK
ENLARGED PLAN
FIRST FLOOR - PLUMBING
SCALE: 1/4"=1'-0"
ADD ALTERNATE NO.2

ALTERNATE No.2
FLOOR PLAN NOTES

1. PROVIDE AND INSTALL PUMP IN EXISTING SUMP PIT (APPROXIMATELY 5'-0" DEEP). RECONNECT NEW 2" DISCHARGE PIPING TO EXISTING.
2. PROVIDE AND INSTALL PUMP WITH COVER IN EXISTING SUMP PIT (APPROXIMATELY 10'-0" DEEP). RECONNECT NEW 2" DISCHARGE PIPING TO EXISTING.
3. PROVIDE 1 1/2" STORM DRAIN PIPING FROM EXISTING DISCHARGE AT WALL OFF ELEVATOR SUMP PIT PUMP AND CONNECT TO DISCHARGE OF PUMP (P-3) AS INDICATED.
4. PROVIDE 2" DISCHARGE PIPING THRU WALL AND CONNECT INTO STORM DRAIN PIPING BEING REPLACED WITH PROJECT M2115-01. FIELD COORDINATE SIZE AND LOCATION PRIOR TO TRENCHING.
5. PROVIDE AND INSTALL PUMP WITH COVER IN EXISTING SUMP PIT APPROXIMATELY 2'-0" DEEP). PROVIDE NEW DISCHARGE PIPING AS INDICATED.
6. EXISTING ELEVATOR SUMP PUMP TO REMAIN. CONTRACTOR SHALL DELIVER NEW PUMP/ACCESSORIES TO OWNER. NEW PUMP P-4 WILL NOT BE INSTALLED AT THIS TIME.
7. PROVIDE 1 1/2" CHECK VALVE.
8. PROVIDE 1" GUIDE PIPES DEPTH OF PIT FOR PUMP SLIDING GUIDE BRACKET AND 1" PIPE MNPT ONE END FOR CONNECTION OF FLOAT TREE SUSPENSION.
9. INSTALL CONTROL PANEL ADJACENT TO PUMP. COORDINATE LOCATION WITH OWNER REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR SHALL CONNECT CONTROL PANEL TO ALARM PANEL IN FIRST FLOOR ELECTRICAL ROOM.
10. PROVIDE 2" CHECK VALVE.
11. CONNECT NEW 2" SW TO EXISTING LINE.

(ADD ALTERNATE NO.2)

PUMP SCHEDULE

MARK NO.	MANUFACTURER	TYPE	MODEL	FLOW RATE (GPM)	HEAD (FT. H2O)	DISCHARGE SIZE	MOTOR SPEED (RPM)	MOTOR SIZE (HP)	ELECTRICAL			NOTES
									VOLT	Ø	HZ	
P-1	WEIL	SUBMERSIBLE	#1409	36.0	18	1-1/4"	1750	1/3	120	1	60	2
P-2	WEIL	SUBMERSIBLE	#1607	60.0	20	2"	1750	3/4	208	3	60	1
P-3	WEIL	SUBMERSIBLE	#1607	60.0	20	2"	1750	3/4	208	3	60	1

- NOTES:
1. HEAVY DUTY SUBMERSIBLE SUMP PUMP IN SIMPLEX SETTING, RATED 60 GPM EACH @ 20' TDH, 2" DISCHARGE, 3/4 HP MOTOR, HERMETICALLY SEALED (AIR FILLED) (208V/3PH/60HZ/1750RPM). PUMP COMPLETE WITH BRONZE IMPELLER, STAINLESS STEEL SHAFT, DOUBLE MECHANICAL SEAL, MOISTURE SENSOR AND TEMP LIMITER, 25' POWER AND SENSOR CABLES, 20' STAINLESS STEEL LIFTING CABLES.

ONE - #2613-2 REMOVAL PACKAGE- FLOOR ELBOW, SLIDING BRACKET, (1" GUIDE PIPES BY OTHERS.)

ONE- #8148 SIMPLEX CONTROL PANEL NEMA-3R ENCLOSURE, FOR WALL MOUNTING, UL-LISTED, FACTORY WIRING HAVING OVERLOAD PROTECTION, LOCKABLE THROUGH-THE-DOOR DISCONNECT, CONTACTOR, 1-NUMBERED AND WIRED TERMINAL STRIP, TOA SWITCH WITH LIGHT, 1- CONTROL CIRCUIT TRANSFORMER

208/115V, 1-HMA WITH HORN, SILENCING SWITCH & RESET, MOISTURE SENSOR AND TEMP/LIMITER RELAYS WITH LIGHTS, 2-ISO CONTACT FOR REMOTE HWA, 1- ISO CONTACT GENERAL ALARM RELAY.

THREE - WEIL #8233 TETHERED FLOAT SWITCH W/ 20' CORD, 3/4 OR 1" PIPE MNPT ONE END- FLOAT TREE SUSPENSION PIPE BY OTHERS.

ONE - #8804 28" O.D. STEEL LID WITH ACCESS HATCH, EPOXY COATED, APPROPRIATE OPENINGS FOR DISCHARGE, ELECTRICAL AND VENT WITH TAPPED HOLES FOR FLOATS AND THREADED HALF COUPLING TO SUSPEND MOUNTING PIPE.

24" DIA. EXISTING PITS. P-2: 5' DEPTH; P-3: 10' DEPTH

NOTE:
COMMON ALARM PANEL TO PICKUP ALL FOR PUMPS: P-1 THRU P-3: ONE- SEEWATER #HLA-4X-4-S3 ALARM PANEL, TYPE-4X, WITH LIGHT INDICATORS FOR 4 ALARM CONTACT INPUTS, COMMON HORN/SILENCER.

2. PROVIDE WITH 15' (VENTED) POWER CABLE WITH 3-PRONG GROUNDED PLUG AND TEST BUTTON, NEMA-6 MOTOR MOUNTED MICRO SWITCH, HLA-4X HIGH LEVEL ALARM PANEL, NEMA-4X WITH HORN/SILENCER, DOME LIGHT, DRY CONTACT FOR REMOTE SIGNAL, TETHERED FLOAT SWITCH WITH 20' CORD, 28"x3/8" THICK SQUARE BASIN COMMER, WITH DISCHARGE AND CORD OPENINGS.
(FOR EXISTING 24" DIAMETER AND 2' DEEP PIT)

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Lankford Fendler
+ associates
1730 Walnut Street Kansas City, Missouri 64108
1913 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.1411 | Fax: 816.221.1429
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ELECTRICAL
SERVICE REPLACEMENT

BENTON HALL
NEVADA HABILITATION
CENTER
NEVADA, MO

PROJECT # M-2114-01
SITE # 7351
FACILITY # 6517351009

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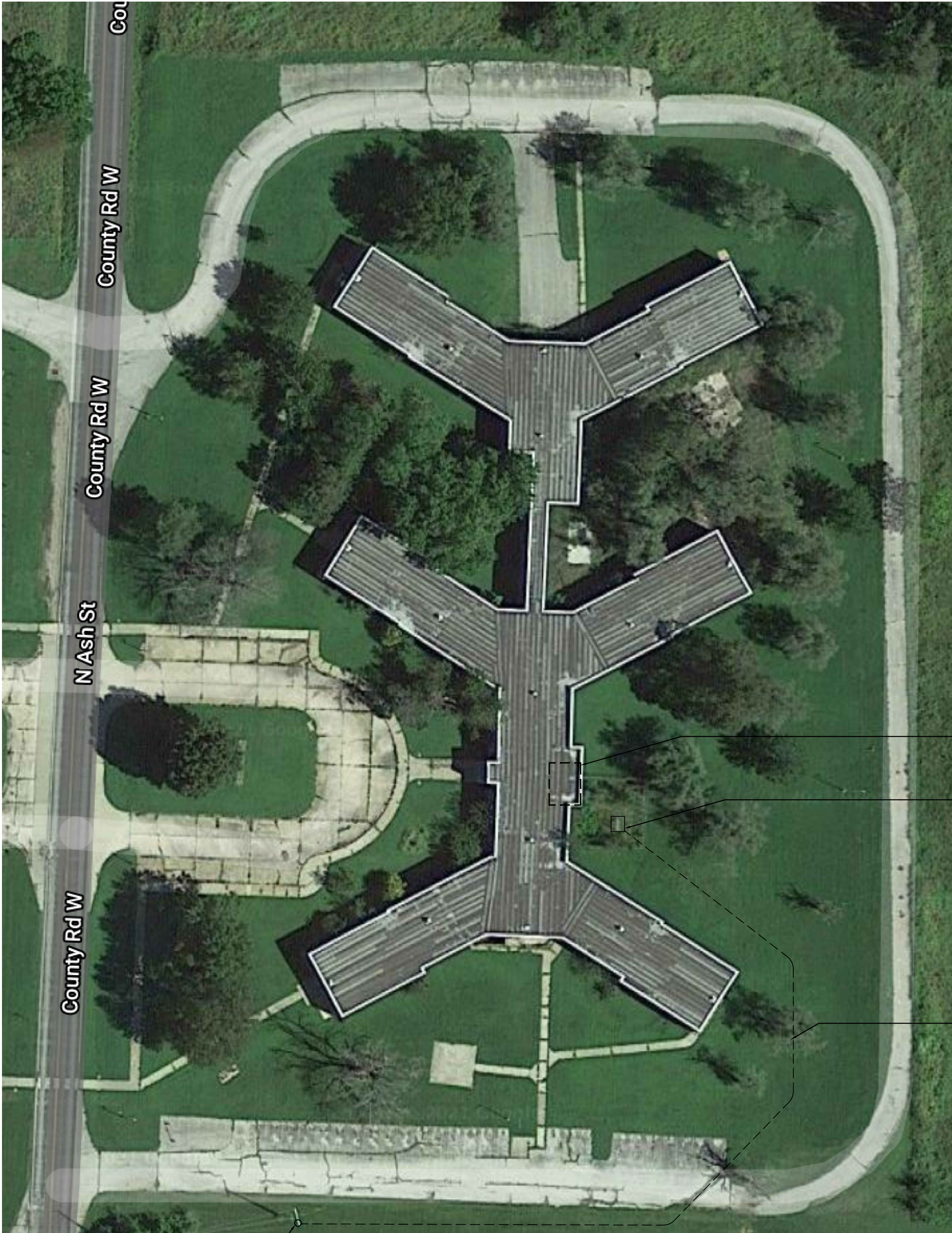
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SHEET TITLE:
LOWER LEVEL
PLUMBING
NEW WORK

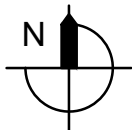
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P-101

7 OF 12 SHEETS
08/22/2022



SITE PLAN-ELECTRICAL
NO SCALE (ESTIMATE 1"=40' +/-)



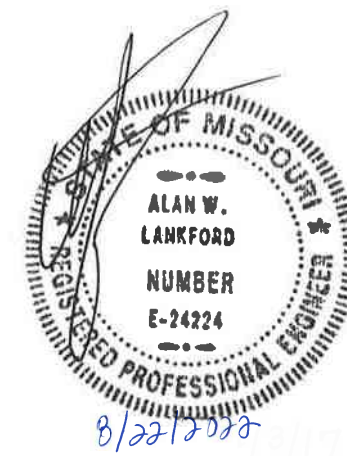
GENERAL NOTE

A. NO WORK THIS SHEET, SHOWN FOR INFORMATION PURPOSES ONLY.

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS:
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE MINIMUM NO.12 UNLESS NOTED OTHERWISE.
- PHASE CONDUCTORS
- NEUTRAL CONDUCTOR
- SWITCH-LEG AND OR TRAVELER
- GROUND CONDUCTOR
- WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS.
- 2x4 LIGHT FIXTURE
- LED STRIP FIXTURE LIGHT FIXTURE
- 208Y/120V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
- 208Y/120V PANELBOARD (FLUSH) TOP MOUNTED 6'-0" AFF
- 480/277V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
- DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED).
- SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
- FLUSH MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
- POWER CONNECTION POINT
- DISCONNECT SWITCH. SIZE AND TYPE AS NOTED TOP MOUNTED 5'-0" AFF
- SINGLE POLE SWITCH. TOP OF DEVICE BOX AT +4'-0" AFF
- THREE-WAY SWITCH. TOP OF DEVICE BOX AT +4'-0" AFF
- DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
- DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED
- WALL MOUNTED OR CEILING MOUNTED JUNCTION BOX.
- WALL MOUNTED JUNCTION BOX WITH BLANK COVERPLATE.
- VOICE OUTLET
- THERMOSTAT OUTLET BOX WITH 3/4"C. STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. THERMOSTAT AND WIRING BY OTHERS. +4'-0" AFF OR AS NOTED.
- CONDUIT UP
- CONDUIT DOWN
- ABOVE FINISH FLOOR
- EXISTING TO REMAIN

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DESIGNED BY: BCD

SHEET TITLE:
SITE PLAN
ELECTRICAL

SHEET NUMBER:

E-001

8 OF 12 SHEETS
08/22/2022

(TYPICAL ALL SHEETS)

- ## DE## FLOOR PLAN NOTES

1. INSTALL NEW 3-WAY SWITCH AND CONNECT TO EXISTING CIRCUITRY MAINTAINED DEMOLITION WORK.
2. INSTALL EMERGENCY LIGHT ABOVE DOOR SIMILAR TO LITHONIA ELUCZ OR EQUAL. CONNECT TO HOT LEG, NOT SWITCH LEG.
3. INSTALL LED STRIP LIGHT SIMILAR TO LITHONIA CLX SERIES OR EQUAL. SUSPEND LIGHT FIXTURES FROM STRUCTURE ABOVE. CONNECT TO EXISTING LIGHTING CIRCUITRY IN THIS AREA.
4. HOMERUN TO PANEL J AND CONNECT TO SPARE 20A/1P BREAKER. PROVIDE TYPED INDEX CARD.
5. MAKE CONNECTION TO EXHAUST FAN AND INSTALL RATE-OF-RISE THERMOSTAT PROVIDED BY THE MECHANICAL CONTRACTOR INCLUDING WIRE BETWEEN.
6. PROVIDE CONDUIT TO EACH PUMP LOCATION. CONNECT TO DRY CONTACT IN CONTROL PANEL ADJACENT TO PUMP. ROUTE WIRE TO COMMON PUMP CONTROL ALARM PANEL AND LAND BY OTHERS.



DEMOLITION WORK

ENLARGED PLAN

FIRST FLOOR - ELECTRICAL

SCALE: 2 1 0 2 4
SCALE 1/4"=1'-0"



ENLARGED PLAN
FIRST FLOOR - ELECTRICAL

SCALE: 2 1 0 2
SCALE 1/4"=1'-0"



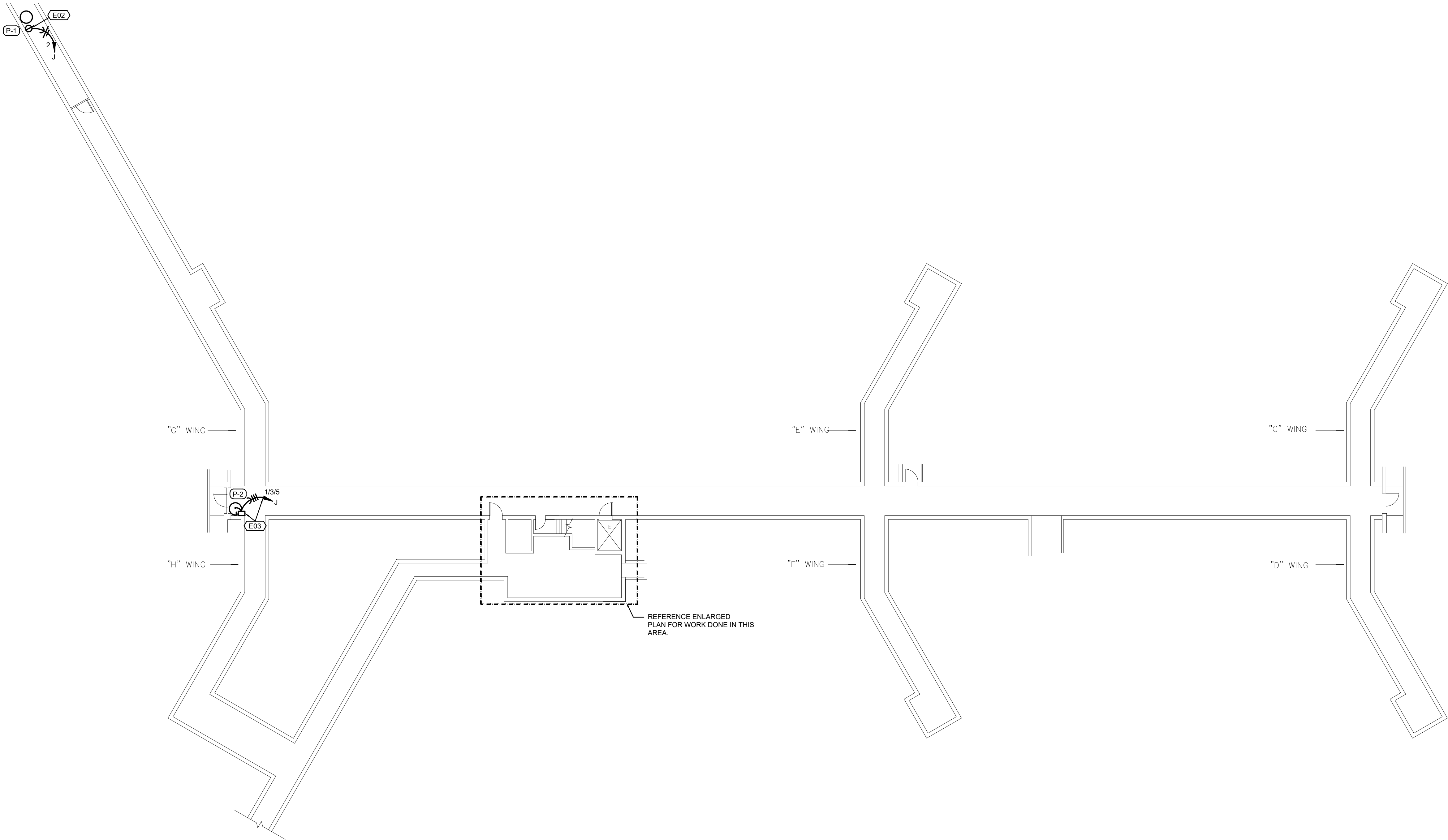
ENLARGED PLAN

FIRST FLOOR - ELECTRICAL

SCALE: 2 1 0 2
SCALE 1/4"=1'-0"

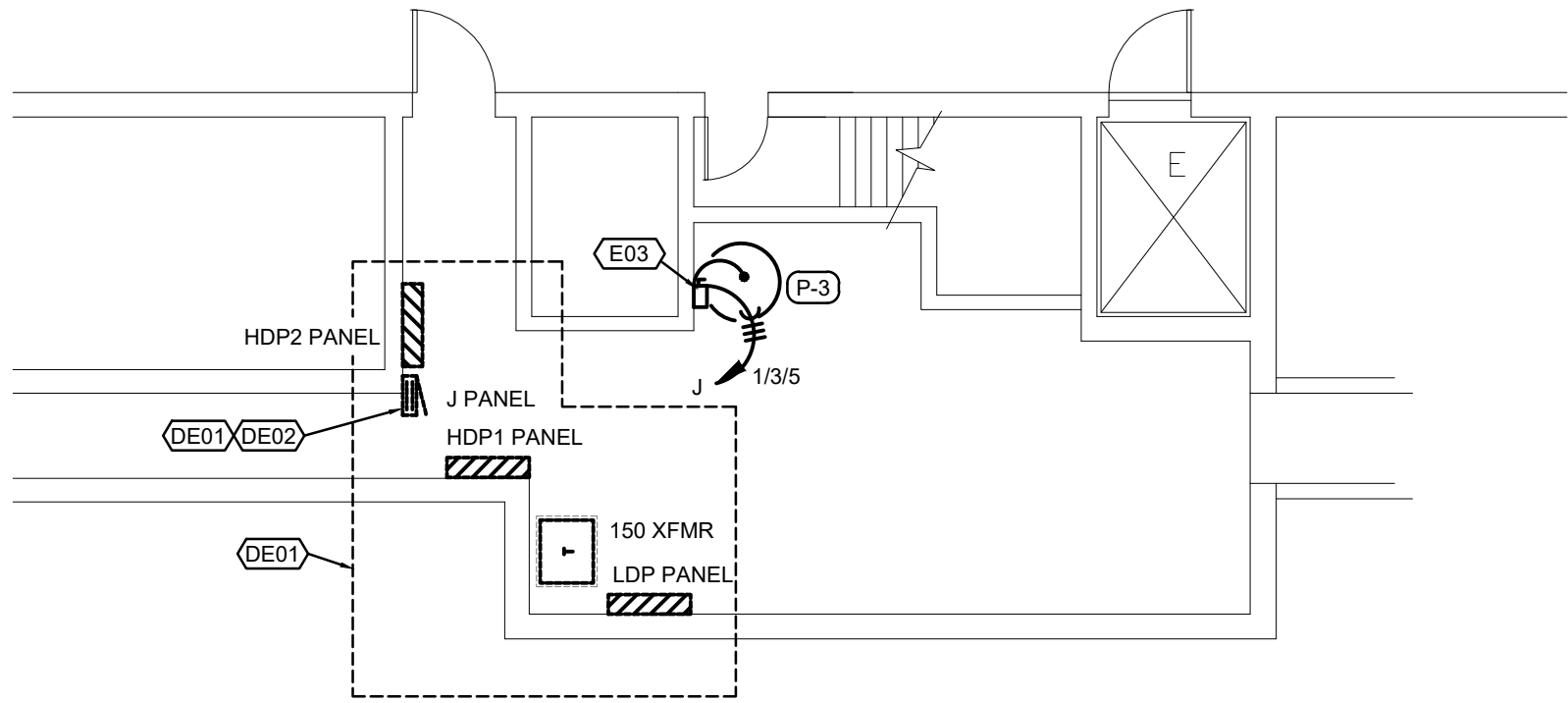


UTILITY WARNING:
The existence and location of any underground utility pipes, lines or structures shown on these drawings are obtained by a search of the available records. The contractor is required to take due precautionary measures to protect the utility lines shown, and all other lines not of record or not shown on these drawings by verification of their location in the field prior to the initiation of the actual portion of their work.



LOWER LEVEL - ELECTRICAL

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



ENLARGED LOWER LEVEL
MECHANICAL ROOM - DEMOLITION/NEW WORK

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

FLOOR PLAN NOTES

- REFERENCE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- DISCONNECT AND MAINTAIN PANEL-BOARD. DISCONNECT AND REMOVE FEEDER CONDUIT BACK TO ITS SOURCE (ALL BRANCH CONDUIT/WIRING SHALL BE CUT/ABANDONED IN PLACE FOR FUTURE DEMOLITION). CLEAN EXISTING PANEL-BOARD ENCLOSURE. REPLACE LOWER END GROUND BUS BAR WITHIN THE PANEL. DISCONNECT AND REMOVE OUTLET BELOW PANEL. CONDUIT AND CONTACTOR POWER WIRES TO PANEL HDP1. TURN ALL BREAKERS TO THE OFF POSITION IF NOT BEING USED AND PROVIDE BLANK HOLE PLUGS FOR OPEN KNOCK OUTS NOT BEING USED.

FLOOR PLAN NOTES

- REFERENCE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- ADD ALTERNATE No 2: PROVIDE 20A NEMA 5-20 PLUG AT 42" AFF. ROUTE BACK TO PANEL INDICATED. INSTALL #10 WIRE THE ENTIRE LENGTH. IF DISTANCE EXCEEDS 180' INSTALL #8 WIRE FOR HALF THE DISTANCE FROM THE PANEL-BOARD AND THE OTHER HALF #10 WIRE.
- ADD ALTERNATE No 2: PROVIDE 30A NEMA TYPE 1 DISCONNECT SWITCH MOUNTED AT 42" AFF. MAKE CONNECTION TO PUMP WITH LIQUID-TIGHT PER MANUFACTURERS INSTRUCTION. HOME-RUN BACK TO PANEL INDICATED.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Lankford + associates
Fendler
1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.1411 | Fax: 816.221.1429
LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC.
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CDS No. 2006001168

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

ELECTRICAL
SERVICE REPLACEMENT

BENTON HALL
NEVADA HABILITATION
CENTER
NEVADA, MO

PROJECT # M-2114-01
SITE # 7351
FACILITY # 6517351009

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 08/22/2022

CAD DWG FILE: AS NOTED
DRAWN BY: BCD
CHECKED BY: AWL
DESIGNED BY: BCD

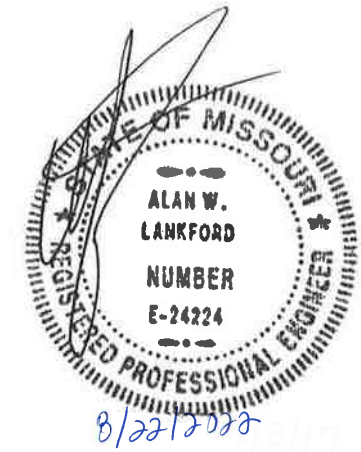
SHEET TITLE:

LOWER LEVEL -
ELECTRICAL

SHEET NUMBER:

E-101

10 OF 12 SHEETS
08/22/2022

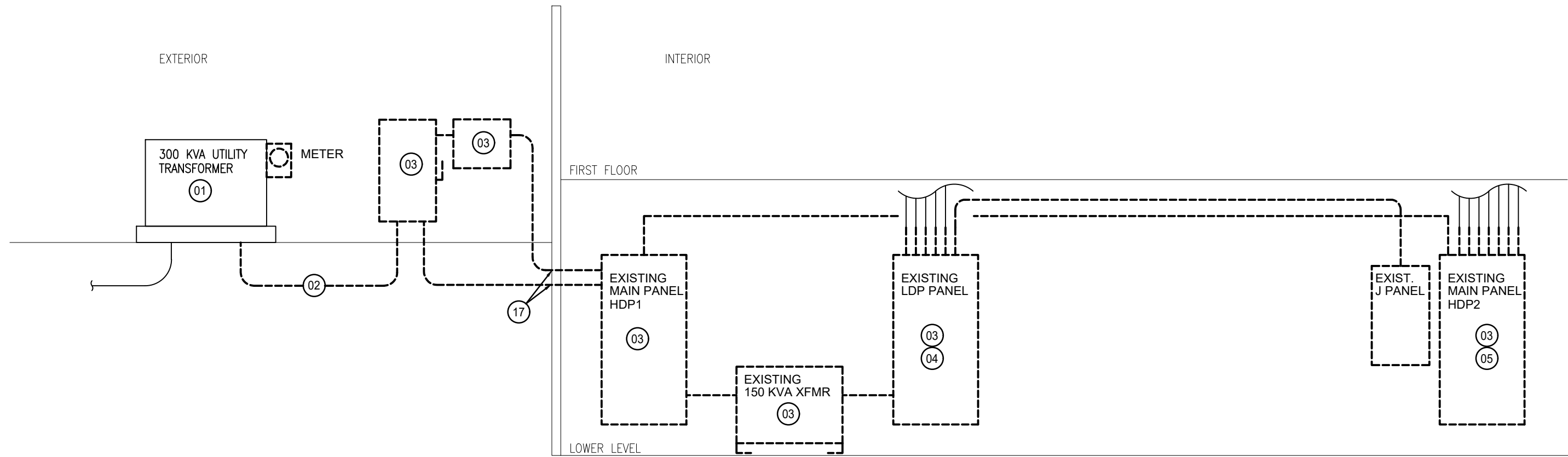


PANELBOARD MDP-1 SCHEDULE ★														RATING: VERIFY A.I.C. LOCATION: _											
SERVICE: 480/277 VOLT, 3 - PHASE, 4 - WIRE AMP FRAME: 1000 AMP MAINS: MCB / 1000 AMP MAIN BREAKER														MOUNTING: SURFACE PANEL TO BE SERVICE ENTRANCE RATED						PROVIDE W / INTEGRAL TVSS					
REV NO.	NOTE NO.	LOAD CRT#	DESCRIPTION	BRKR P	AMP	A	B	C	3PH	LOAD CRT#	DESCRIPTION	BRKR P	AMP	A	B	C	3PH	NOTE NO.	REV NO.						
		1								2															
	1, 2	3	PUMP #1	3	40				17.5	4	PUMP #2	3	40				17.5	1, 2							
		5								6															
		7								8															
	1, 2	9	WING C - AHU	3	30				18	10	WING D - AHU	3	30				18	1, 2							
		11								12															
		13								14															
	1, 2	15	WING E - AHU	3	30				18	16	WING F - AHU	3	30				18	1, 2							
		17								18															
		19								20															
	1, 2	21	WING G - AHU	3	30				18	22	WING H - AHU	3	30				18	1, 2							
		23								24															
		25								26															
	1, 2	27	MAIN AHU SOUTH	3	30				18	28	MAIN AHU NORTH	3	30				18	1, 2							
		29								30															
		31								32															
	1, 2	33	ELEVATOR (10 HP)	3	35				18.3	34	TRANSFORMER	3	300				156.72	1							
		35								36															
		37								38															
		39	SPACE / PROVISION	3	200					40	SPACE / PROVISION	3	200												
		41								42															
TOTAL:						0	0	0	107.8	TOTAL:						0	0	0	246.2						
						0	0	0	107.8	KVA / PHASE TOTAL:						0	0	0	107.8						
										AMP / PHASE TOTAL:						425.8	425.8	425.8							
NOTES: 1 ESTIMATED LOAD 2 DO NOT PROVIDE BREAKER, SHOWN FOR REF ONLY. BREAKER SIZE TO BE DETERMINED AT A LATER DESIGN. BREAKER SPACE SHALL BE CAPABLE OF HANDLING A 100A/3P BREAKER.														TOTAL CONNECTED LOAD: 354.02 KVA TOTAL CONNECTED CURRENT: 425.82 AMPS LIGHTS @ 125%: 0.00 KVA RECEPTACLES @ 100%: 0.00 KVA RECEPTACLES @ 50%: 0.00 KVA LARGEST MOTOR LOAD @ 125%: 22.88 KVA CONTINUOUS LOAD @ 125%: 0.00 KVA OTHER AND NON-CONTINUOUS LOADS @ 100%: 335.72 KVA TOTAL DEMAND LOAD: 358.59 KVA POWER FACTOR: 1.00 % PF TOTAL DEMAND CURRENT: 431.33 AMPS											
REV:																									
GENERAL NOTE: CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS																									

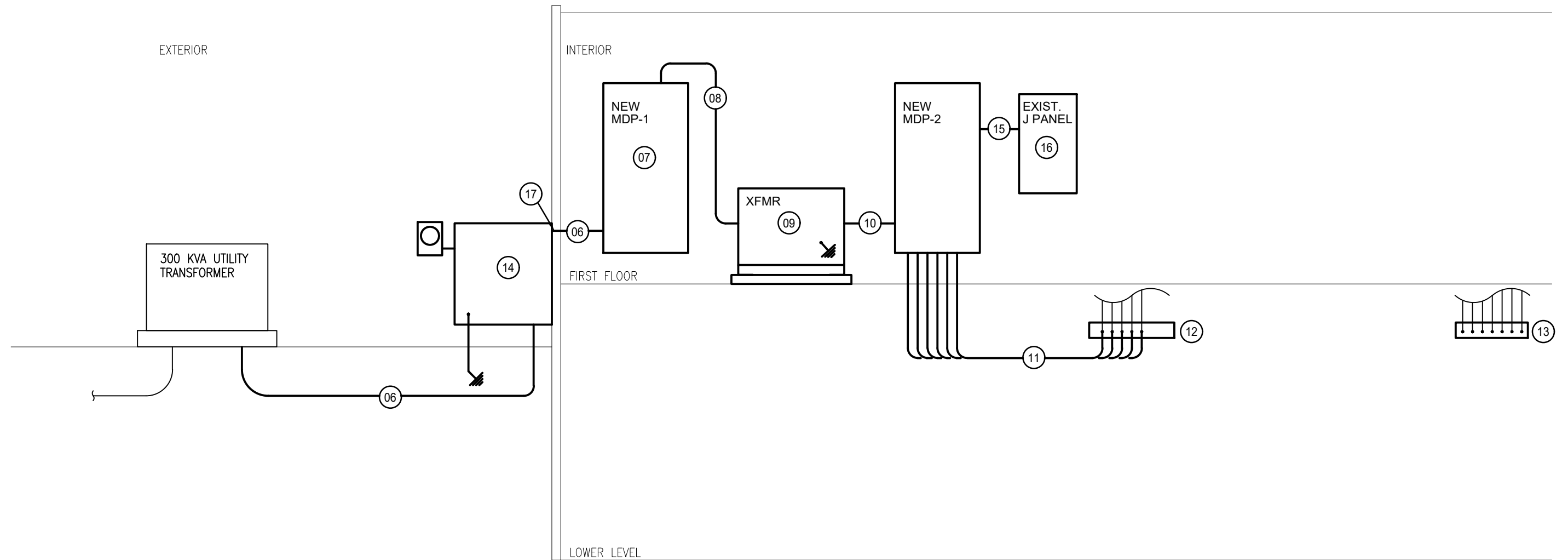
PANELBOARD MDP-2 SCHEDULE																		RATING: VERIFY A.I.C.					
SERVICE: 208/120 VOLT, 3 - PHASE, 4 - WIRE										LOCATION: _													
AMP FRAME: 800 AMP																							
MAINS: MCB / 700 AMP MAIN BREAKER										MOUNTING: SURFACE													
REV NO.	NOTE NO.	CRT#	LOAD DESCRIPTION	BRKR P	AMP	A	B	C	3PH	CRT#	LOAD DESCRIPTION	BRKR P	AMP	A	B	C	3PH	NOTE NO.	REV NO.				
		1	EXISTING							2	EXISTING												
	1,2	3	PANEL C	3	80				12.6	4	PANEL D	3	70				12.6	1,2					
		5								6													
		7	EXISTING							8	EXISTING												
	1,2	9	PANEL E	3	80				12.6	10	PANEL F	3	80				16.2	1,2					
		11								12													
		13	EXISTING							14	EXISTING												
	1,2	15	PANEL G	3	80				22.5	16	PANEL H	3	90				16.2	1,2					
		17								18													
		19	EXISTING							20	EXISTING												
	1,2	21	PANEL B (MAIN SOUTH)	3	150				22.5	22	PANEL GL (MAIN NORTH)	3	90				16.2	1,2					
		23								24													
		25	EXISTING							26													
	1,2	27	PANEL A	3	125				22.5	28	SPACE / PROVISION	3	100										
		29								30													
		31								32													
	1,3	33	PANEL J	3	125				2.82	34	SPACE / PROVISION	3	100										
		35								36													
		37	SPACE / PROVISION							38	SPACE / PROVISION												
		39	SPACE / PROVISION							40	SPACE / PROVISION												
		41	SPACE / PROVISION							42	SPACE / PROVISION												
TOTAL:										0	0	0	95.5175	TOTAL:				0	0	0	61.2		
										0	0	0	95.5					0	0	0	156.7		
										0	0	0	156.7					435.0	435.0	435.0			
NOTES:										KVA / PHASE TOTAL:													
1 ESTIMATING 50% LOAD										AMP / PHASE TOTAL:													
2 CONNECT AND VERIFY POWER AT BOTH ENDS, TURN BREAKER OFF.										TOTAL CONNECTED LOAD:										156.72 KVA			
3 CONNECT AND VERIFY POWER AT BOTH ENDS, LEAVE BREAKER ON.										TOTAL CONNECTED CURRENT:										435.00 AMPS			
										LIGHTS @ 125%:										0.00 KVA			
										RECEPTACLES @ 100%:										0.00 KVA			
										RECEPTACLES @ 50%:										0.00 KVA			
REV:										LARGEST MOTOR LOAD @ 125%:										0.00 KVA			
										CONTINUOUS LOAD @ 125%:										0.00 KVA			
										OTHER AND NON-CONTINUOUS LOADS @ 100%:										156.72 KVA			
										TOTAL DEMAND LOAD:										156.72 KVA			
GENERAL NOTE:										POWER FACTOR:										1.00 % PF			
CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH										TOTAL DEMAND CURRENT:										435.02 AMPS			
CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS																							

★ 108 kW OF THE AHU LOADS IS ANTICIPATED FUTURE HVAC LOAD PROVIDED BY THE OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION.

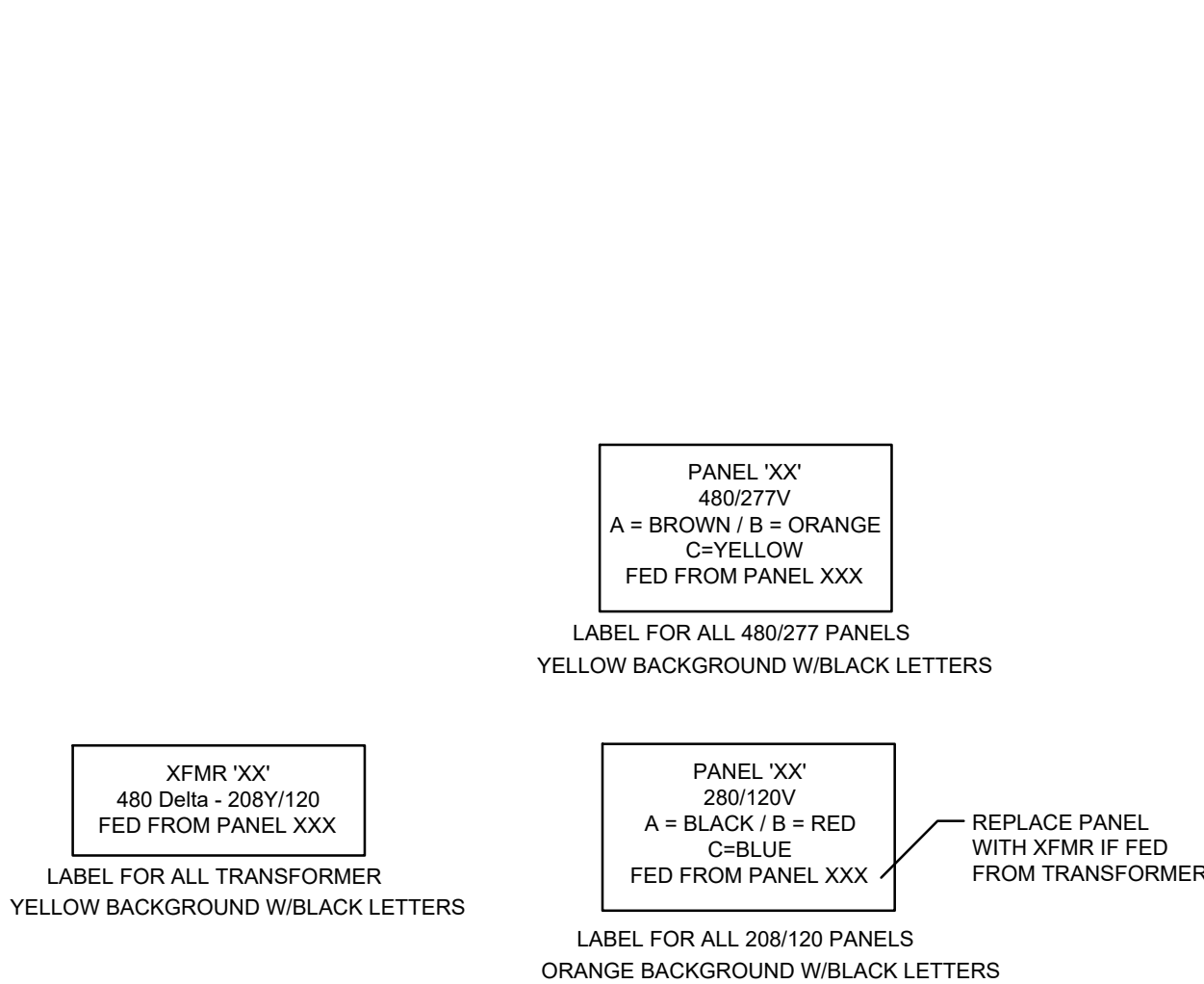
EXISTING PANELBOARD J SCHEDULE										RATING: VERIFY A.I.C. LOCATION: _____ GE - A SERIES														
SERVICE: 208/120 VOLT, 3 - PHASE, 4 - WIRE AMP FRAME: 225 AMP MAINS: MLO										MOUNTING: SURFACE														
REV NO.	NOTE NO.	LOAD CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA				LOAD CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA				NOTE NO.	REV NO.					
						A	B	C	3PH					A	B	C	3PH							
		1								2	BASEMENT SUMP PUMP P-1	1	20	0.87					2,3					
	2,3	3	BASEMENT SUMP PUMPS P-2, P-3	3	15					4	SPACE / PROVISION													
		5								6														
		7	SPACE / PROVISION							8	SPARE	3	20						E					
	E	9	SPARE	2	60					10														
		11								12	SPACE / PROVISION								1					
	1	13	SPACE / PROVISION							14	SPACE / PROVISION								1					
	E	15	LTS/EX. FAN ELEC. ROOM	1	20		1.02			16	SPARE	1	20						E					
	E	17	PUM P CONTROL PANEL	1	20			0.25		18	SPARE	1	20						E					
	E	19	REC. ELEC. ROOM	1	20	0.36				20	SPARE	1	20						E					
	E	21	SPARE	1	20					22	SPARE	1	20						E					
	E	23	SPARE	1	20					24	SPARE	1	20						E					
	E	25	SPARE	1	20					26	SPARE	1	30						E					
	E	27	SPARE	1	20					28	SPARE	2	20						E					
	E	29	SPARE	1	30					30														
	E	31	SPARE	2	20					32	SPARE	2	20						E					
		33								34														
	E	35	SPARE	2	20					36	SPARE	2	20						E					
		37								38														
	E	39	SPARE	1	30					40	SPARE	2	30						E					
	E	41	SPARE	1	30					42														
TOTAL:						0.36	1.02	0.25	0	TOTAL:						0.87	0	0	0.0					
						0.36	1.02	0.25	0.0	KVA / PHASE TOTAL:						1.23	1.02	0.25	0.0					
										AMP / PHASE TOTAL:						10.3	8.5	2.1						
NOTES:										TOTAL CONNECTED LOAD:										2.50	KVA			
1 PROVIDE BLANK COVER PLATE										TOTAL CONNECTED CURRENT:										6.94	AMPS			
2 PROVIDE GFCI TYPE BREAKER										LIGHTS @ 125%:										1.28	KVA			
3 PROVIDE BREAKER UNDER ADD AT LERNATE NO.2. MAINTAIN EXISTING BREAKER UNDER BASE BID.										RECEPTACLES @ 100%:										0.36	KVA			
										RECEPTACLES @ 50%:										0.00	KVA			
										LARGEST MOTOR LOAD @ 125%:										0.00	KVA			
										CONTINUOUS LOAD @ 125%:										0.31	KVA			
										OTHER AND NON-CONTINUOUS LOADS @ 100%:										0.87	KVA			
										TOTAL DEMAND LOAD:										2.82	KVA			
										POWER FACTOR:										1.00	% PF			
										TOTAL DEMAND CURRENT:										7.82	AMPS			
GENERAL NOTE:																								
CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH																								
CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS																								



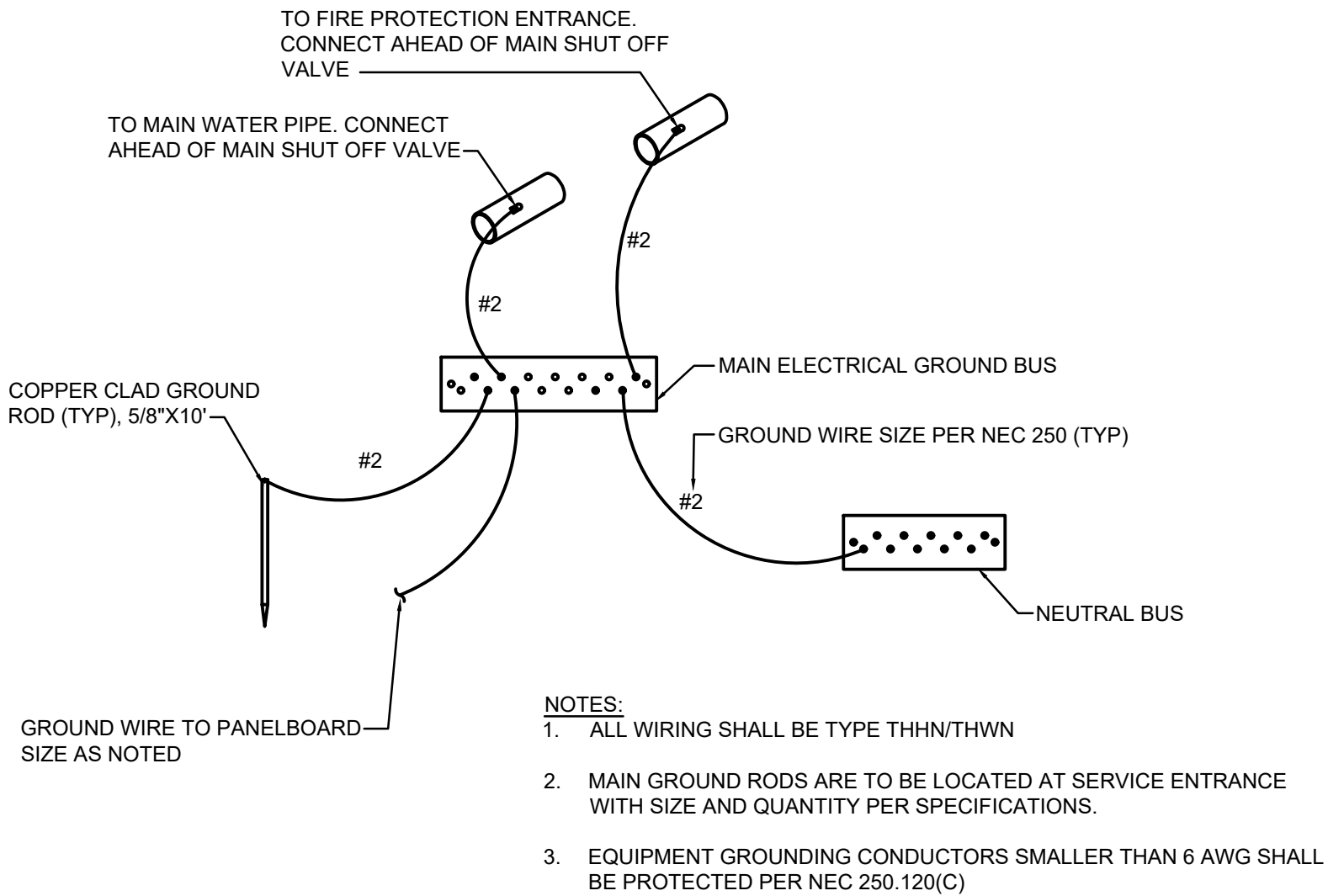
ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
NO SCALE



ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
NO SCALE



TYPICAL EQUPMENT LABEL DETAILS
NO SCALE

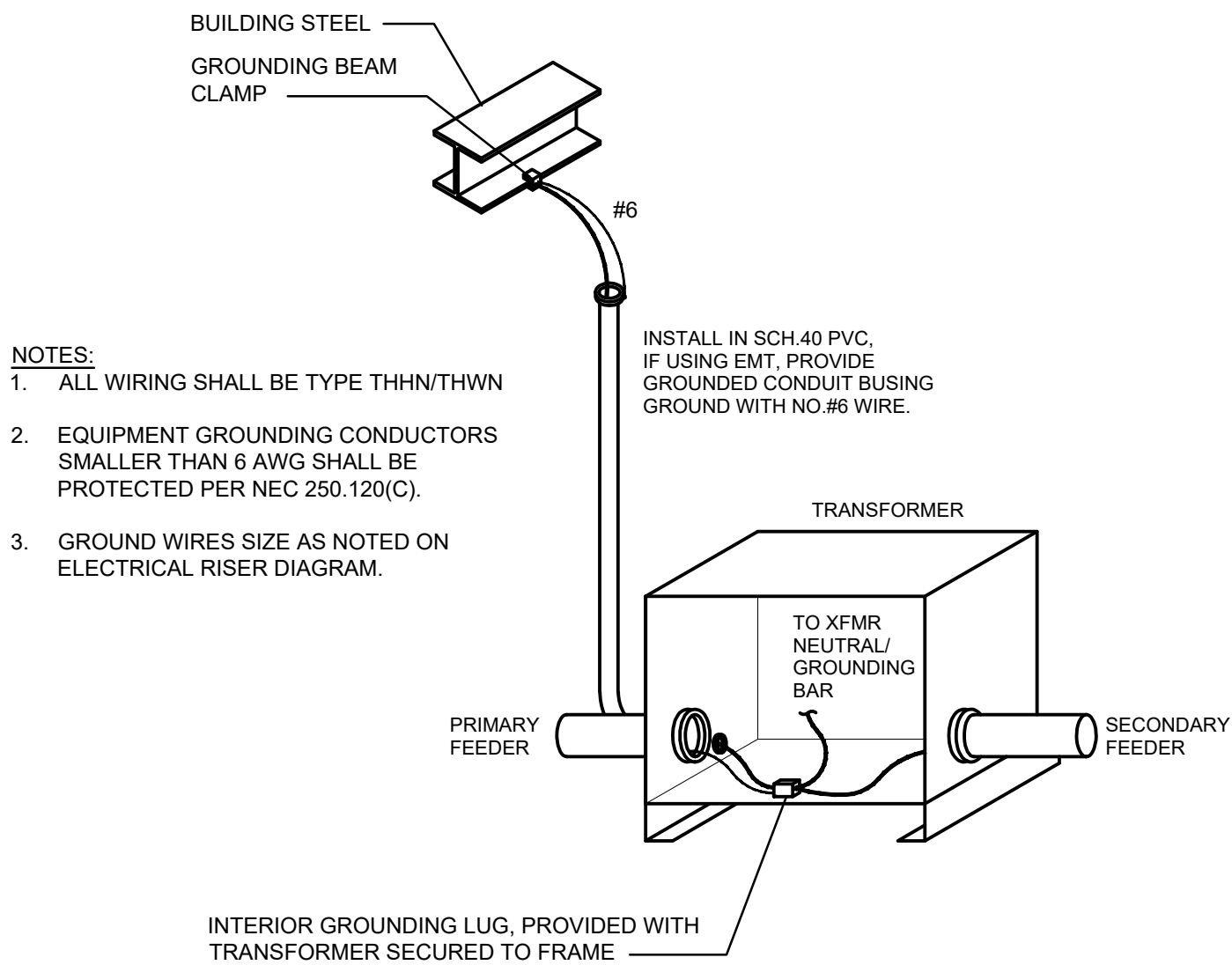


MAIN SERVICE ENTRANCE GROUNDING DETAIL
NO SCALE

- ⊗ RISER PLAN NOTES
- COORDINATE WITH EVERY, TO DISCONNECT POWER AT TRANSFORMER AND REMOVE METER.
 - REMOVE EXISTING SECONDARY CONDUIT AND WIRING.
 - HEAVY DASHED LINES: DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH, BOXES, CONDUIT, WIRING, SUPPORT, TRANSFORMERS, ETC... AS INDICATED.
 - AT THIS PANEL, DISCONNECT AND REMOVE CONDUIT AND WIRING BACK AS NECESSARY FOR FUTURE SPLICING. RE: ELECTRICAL ONE-LIEN DIAGRAM - NEW WORK FOR ADDITIONAL INFORMATION.
 - AT THIS PANEL, DISCONNECT AND REMOVE CONDUIT AND WIRING ABOVE PANEL. RE: ELECTRICAL ONE-LIEN DIAGRAM - NEW WORK FOR ADDITIONAL INFORMATION.
 - PROVIDE AND INSTALL (4) SETS OF 4-#250 (CU) IN 3" PVC. TRANSITION TO RGS FOR SWEEP FROM BELOW GRADE TO ABOVE GRADE AT C.T. CABINET.
 - SEE MAIN SERVICE ENTRANCE GROUNDING DETAIL.
 - PROVIDE (3) #350 (CU) & 1-#3 (CU) GROUND WIRE.
 - PROVIDE AND INSTALL 225 KVA 480-208/120V XFMR ON A 4" HIGH CONCRETE PAD. GROUND TRANSFORMER PER NEC. 250 WITH GREEN INSULATED #3 (CU) GROUND WIRE.
 - PROVIDE (2) SETS OF 4-#500 (CU) & 1-#3 (CU) GROUND WIRE IN 3-1/2" C.
 - PROVIDE PANEL FEEDER SIZE AS INDICATED:
A. 70A - 80A: 1-1/4" C, 4-#4 (CU) & 1-#6 (CU) GROUND WIRE.
B. 90A - 100A: 1-1/4" C, 4-#3 (CU) & 1-#8 (CU) GROUND WIRE.
C. 125A: 1-1/2" C, 4-#1 (CU) & 1-#6 (CU) GROUND WIRE.
A: 150A: 2" C, 4-#1/0 (CU) & 1-#6 (CU) GROUND WIRE.
 - PROVIDE AND INSTALL FROM STRUCTURE ABOVE OR AT STRUCTURE ABOVE, NEMA TYPE 1 ENCLOSURE. TERMINATE EXISTING CONDUITS AT ENCLOSURE, BOX USED FOR SPLICING EXISTING CONDUCTORS TO NEW CONDUCTORS USING INSULATED CABLE CONNECTOR (PROVIDE SIZE PER CABLE TYPE AND NUMBER OF CONDUCTORS). ALL CONDUCTORS SHALL BE LABELED ACCORDING TO ITS SERVICE.
 - PROVIDE AND INSTALL FROM STRUCTURE ABOVE OR AT STRUCTURE ABOVE, NEMA TYPE 1 ENCLOSURE. TERMINATE EXISTING CONDUITS AT ENCLOSURE, BOX USED FOR FUTURE SPLICING EXISTING CONDUCTORS. ALL CONDUCTORS SHALL BE LABELED ACCORDING TO ITS SERVICE.
 - PROVIDE AND INSTALL METER, C.T. CABINET AND GROUNDING PER EVERY STANDARDS.
 - 125A: 1-1/2" C, 4-#1 (CU) & 1-#6 (CU) GROUND WIRE.
 - EXISTING EXISTING PANEL J.
 - CONTRACTOR TO SEAL OPENINGS WATER-TIGHT.

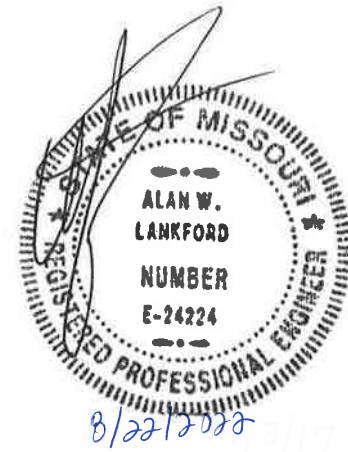


INSULATED MULTI-CABLE SPLICE CONNECTOR
NO SCALE



TRANSFORMER GROUNDING DETAIL
NO SCALE

STATE OF MISSOURI
MICHAEL L. PARSON,
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+ associates
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DESIGNED BY: BCD

SHEET TITLE:
ELECTRICAL
ONE-LINE
DIAGRAMS

SHEET NUMBER:
E-201
12 OF 12 SHEETS
08/22/2022