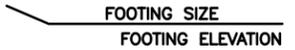


SYMBOLS LEGEND

 SECTION LABEL SHEET NUMBER	 COLUMN GRID LINE
DETAIL NUMBER —  SHEET NUMBER — 	 ROOM NUMBER STAIRS — ROOM NAME
 OPENING NUMBER	 FOOTING SIZE FOOTING ELEVATION
 WALL TYPE CALLOUT	 BENCH MARK
 NEW FINISH GRADE CONTOURS	 ELEVATION IN SECTION
 UNCHANGED EXISTING GRADES	 NEW ELEVATION
 ALTERED EXISTING GRADES	 EXISTING ELEVATION

MATERIALS LEGEND

 EARTH	 CONTINUOUS WOOD
 CONCRETE	 WOOD TREATED BLKG.
 COMPACTED FILL	 BRICK
 GYPSUM BOARD/ PLASTER	 CONCRETE BLOCK
 BATT INSULATION	 STONE
 PLYWOOD	 EXISTING MATERIAL

**DCA MON
MAIN HOUSE SITE WORK
AND OUTBUILDING REPAIRS**

BID PACKAGES FOR MULTIPLE REPAIRS

**26223 HARDING RD
CLERMONT, IOWA**

**DAS PROJECT # 9226.00
GENESIS PROJECT # 2402**

CONTACT INFORMATION

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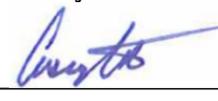
STRUCTURAL ENGINEER
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Casey L. Adams
23175

LICENSED ENGINEER
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa

Signature 

Casey L. Adams Reg No. 23175

Date Issued: TBD

License Renewal Date: 12-31-2026

Pages or sheets covered by this seal:
M0.0, M0.1, M1.1, E0.0, E0.1, E1.0, E1.1, E1.2

EDWARD L. MATT

REGISTERED ARCHITECT

NO. 05761

STATE OF IOWA

I hereby certify that the portion of this technical submission described below was prepared by me or under my supervisor and responsible charge. I am a duly registered Architect under the laws of the State of Iowa.

Signature _____ 05761

Edward L. Matt Reg. No.

Pages or Sheets covered in part or whole by this seal:
A0, A0.1, A0.2, A1.0, A2.0, A3.0, A3.1, A4.0, A5.0, A6.0

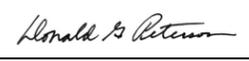
Date Issued: 02-04-2026

PROFESSIONAL ENGINEER

DONALD G. PETERSON
7845

LICENSED ENGINEER
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision, and that I am a duly licensed professional engineer under the laws of the state of Iowa.

Signature 

DON PETERSON, PE LICENSE RENEWAL DATE: 12/31/26 Reg. No. 7845

Pages or Sheets covered in part or whole by this seal:
SHEET S1.0.

Date Issued: 2/4/2026

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A4.0	SITE DRAINAGE & TUCK POINTING
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GENESIS ARCHITECTURAL DESIGN

**DCA MON
MAIN HOUSE SITE WORK AND OUTBUILDING REPAIRS
BID PACKAGE FOR MULTIPLE REPAIRS**

26223 HARDING RD
CLERMONT, IOWA

FINAL ISSUE DRAWINGS

COVER SHEET

DAS NO. 9226.00

PROJECT NO. 2402

ISSUE DATE 02-04-2026

SHEET NUMBER **A0.0**
1 OF 19

ABBREVIATIONS

ADJ	ADJUSTABLE	OF/CI	OWNER FURNISHED/CONTR. INSTALLED
A/E	ARCHITECT / ENGINEER	OF/OI	OWNER FURNISHED/OWNER INSTALLED
AHJ	AUTHORITY HAVING JURISDICTION		
ALUM	ALUMINUM	OTS	OPEN TO STRUCTURE
AMT	AMOUNT		
ARCH	ARCHITECT	PARG	PARGING
ASPH	ASPHALT	PL	PLATE
		PNL	PANEL
BLK	BLOCK	PROT	PROTECTION
BSMT	BASEMENT	PRV	POWER ROOF VENTILATOR
BUR	BUILT UP ROOFING	PT	PAINT
		PV	PLUMBING VENT
CFLG	COUNTER FLASHING	PVC	POLYVINYL CHLORIDE
CHNLS	CHANNELS		
☉	CENTER LINE	R	RISER
COL	COLUMN	RA	ROOF ANCHOR
CRS	COURSES	R&R	REMOVE AND REPLACE
CSB	CONCRETE SPLASH BLOCK	RCJ	REINFORCED CONTROL JOINT
		RCMU	REINFORCED CONC. MASONRY JT.
DBL	DOUBLE	REBAR	REINFORCING BAR
DO	REPEAT	REF	ROOF EXHAUST FAN
DWG	DRAWING	REJ	ROOF EXPANSION JOINT
		REQ'D	REQUIRED
EF	EXHAUST FAN	RH	ROOF HATCH
EJF	EXPANSION JOINT FILLER	RM	ROOM
ELEC	ELECTRICAL	RO	ROUGH OPENING
ELEV	ELEVATION	RS	ROOF SLOPE
ENCL	ENCLOSURE	RV	ROOF VENT
EXP	EXPOSED OR EXPANSION		
		SCHED	SCHEDULE
FIN	FINISH	SECT	SECTION
FO	FINISH OPINING	SKL	SKY LIGHT
FR	FRAME	SL	SIDE LIGHT
		SS	STAINLESS STEEL
GND	GROUND	STOR	STORAGE
GYP	GYPNUM	SUSP	SUSPENDED
H	HIGH	T	TREAD
HDW	HARDWARE	T&B	TOP AND BOTTOM
HR	HOUR	T&G	TONGUE AND GROOVE
		TOC	TOP OF CURB, TOP OF CONC.
INT	INTERIOR	TOW	TOP OF WALL
KW	KEY WALL	UC	UTILITY CURB
		UNO	UNLESS NOTED OTHERWISE
LF	LINEAR FOOT		
LW	LIGHT WEIGHT	VENT	VENTILATOR
LT	LAMBS TONGUE		
		W/	WITH
MAU	MAKE UP AIR UNIT	W/O	WITHOUT
		WA	WALL ANCHOR
MFR	MANUFACTURER	WD	WOOD
MTD	MOUNTED	WDW	WINDOW
		WP	WATERPROOFING OR WALKPAD
NO	NUMBER	WS	WEATHER STRIP
NOM	NOMINAL	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
OC	ON CENTER		

PRESERVATION NOTES:

- A. MONTAUK IS A HISTORIC SITE THAT IS OWNED AND MAINTAINED BY THE STATE OF IOWA. IT WAS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES IN 1973. THE MANSION AND OUTBUILDINGS ON THIS SITE ALL CONTRIBUTE TO THE SITE'S HISTORIC SIGNIFICANCE. ALL REPAIR WORK AND PRESERVATION TREATMENTS WILL FOLLOW THE RECOMMENDATIONS OF THE SECRETARY OF INTERIOR'S STANDARDS FOR HISTORIC PRESERVATION AND GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS. COPIES OF THESE DOCUMENTS CAN BE FOUND ONLINE OR REQUESTED THROUGH THE NATIONAL PARK SERVICE.
- B. PRESERVATION: TO APPLY MEASURES NECESSARY TO SUSTAIN THE EXISTING FORM, INTEGRITY, AND MATERIALS OF A HISTORIC PROPERTY. THE GOAL OF PRESERVATION IS TO HALT THE PROCESS OF DETERIORATION AND STABILIZE THE ITEM'S CONDITION.
- C. REHABILITATION: TO MAKE POSSIBLE A COMPATIBLE USE FOR A PROPERTY THROUGH REPAIR, ALTERATIONS, AND ADDITIONS WHILE PRESERVING THOSE PORTIONS OR FEATURES THAT CONVEY ITS HISTORICAL, CULTURAL, OR ARCHITECTURAL VALUES.
- D. PROTECT AND MAINTAIN: TO REMOVE DETERIORATING MATERIALS, APPLY PROTECTIVE PRODUCTS, AND INSTALL PROTECTIVE MEASURES, TO PROVIDE THE LEAST DEGREE OF INTERVENTION.
- E. MATERIAL IN KIND: MATERIAL THAT MATCHES EXISTING MATERIALS, AS MUCH AS POSSIBLE, IN SPECIES, CUT, COLOR, GRAIN, TEXTURE, AND FINISH.
- F. REPAIR: TO STABILIZE, CONSOLIDATE, OR CONSERVE; TO RETAIN EXISTING MATERIALS AND FEATURES WHILE EMPLOYING AS LITTLE NEW MATERIAL AS POSSIBLE. REPAIR INCLUDES PATCHING, PIECING-IN, SPLICING, CONSOLIDATING, OR OTHERWISE REINFORCING OR UPGRADING MATERIALS. WITHIN RESTORATION, REPAIR ALSO INCLUDES LIMITED REPLACEMENT IN KIND, REHABILITATION, AND RECONSTRUCTION, WITH COMPATIBLE SUBSTITUTE MATERIALS FOR DETERIORATED OR MISSING PARTS OF FEATURES WHEN THERE ARE SURVIVING PROTOTYPES.
- G. REPLACE: TO DUPLICATE AND REPLACE ENTIRE FEATURES WITH NEW MATERIAL IN KIND. REPLACEMENT INCLUDES THE FOLLOWING CONDITIONS:
1. DUPLICATION: INCLUDES REPLACING ELEMENTS DAMAGED BEYOND REPAIR OR MISSING. ORIGINAL MATERIAL IS INDICATED AS THE PATTERN FOR CREATING NEW DUPLICATED ELEMENTS.
 2. REPLACEMENT WITH NEW MATERIALS: INCLUDES REPLACEMENT WITH NEW MATERIAL WHEN ORIGINAL MATERIAL IS NOT AVAILABLE AS PATTERNS FOR CREATING NEW DUPLICATED ELEMENTS.
 3. REPLACEMENT WITH SUBSTITUTE MATERIALS: INCLUDES REPLACEMENT WITH COMPATIBLE SUBSTITUTE MATERIALS. SUBSTITUTE MATERIALS ARE NOT ALLOWED, UNLESS OTHERWISE INDICATED.
- H. RESTORE: TO CONSOLIDATE, REPLICATE, REPRODUCE, REPAIR, AND REFINISH AS REQUIRED TO ACHIEVE THE INDICATED RESULTS.
- I. WHERE REPAIR WORK IS REQUIRED OR SPECIFICALLY INDICATED, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
1. RETAIN AS MUCH EXISTING MATERIAL AS POSSIBLE; REPAIR AND CONSOLIDATE RATHER THAN REPLACE.
 2. USE ADDITIONAL MATERIAL OR STRUCTURE TO REINFORCE, STRENGTHEN, PROP, TIE, AND SUPPORT EXISTING MATERIAL OR STRUCTURE.
 3. USE REVERSIBLE PROCESSES WHEREVER POSSIBLE.
 4. USE TRADITIONAL REPLACEMENT MATERIALS AND TECHNIQUES. NEW WORK SHALL BE DISTINGUISHABLE TO THE TRAINED EYE, ON CLOSE INSPECTION, FROM OLD WORK.
 5. RECORD THE WORK BEFORE THE PROCEDURE WITH PRECONSTRUCTION PHOTOGRAPHS AND DURING THE WORK WITH PERIODIC CONSTRUCTION PHOTOS.
- J. WHERE WORK REQUIRES EXISTING FEATURES TO BE REMOVED, CLEANED, AND REUSED, PERFORM THESE OPERATIONS WITHOUT DAMAGE TO THE MATERIAL ITSELF, TO ADJACENT MATERIALS, OR TO THE SUBSTRATE.
- K. IF ANY UNANTICIPATED ITEMS ARE DISCOVERED DURING DEMOLITION, EXCAVATION, OR CONSTRUCTION THAT MAY HAVE HISTORICAL, ARCHITECTURAL, OR ARCHEOLOGICAL SIGNIFICANCE, PLEASE IMMEDIATELY NOTIFY THE OWNER, ARCHITECT, OR CONSTRUCTION MANAGER.
- L. REFER TO THE SPECIFICATIONS MANUAL FOR SECTIONS ON SPECIFIC HISTORIC TREATMENT PROCEDURES.

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FINAL
ISSUE
DRAWINGS

PRESERVATION
NOTES &
ABBREVIATIONS

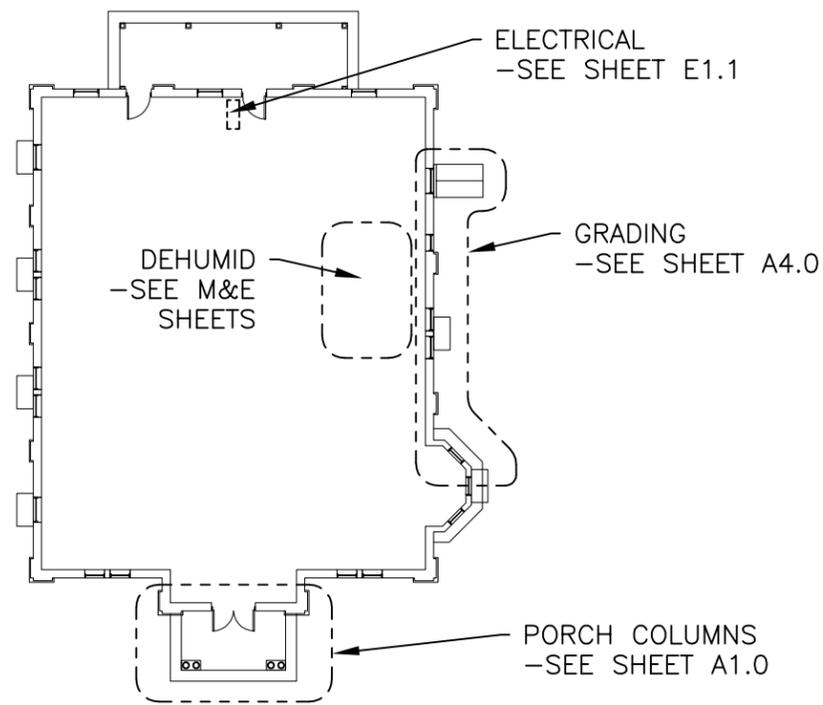
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2402

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02-04-2026

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A0.1
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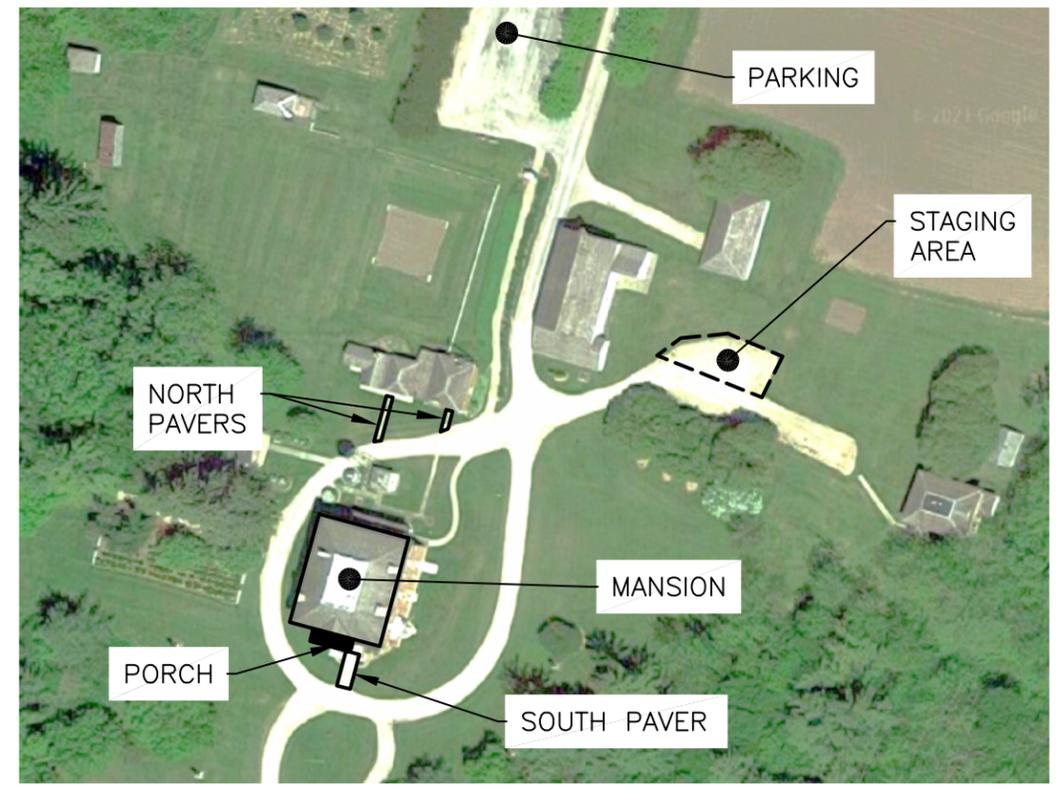
MANSION KEY PLAN

NOT TO SCALE

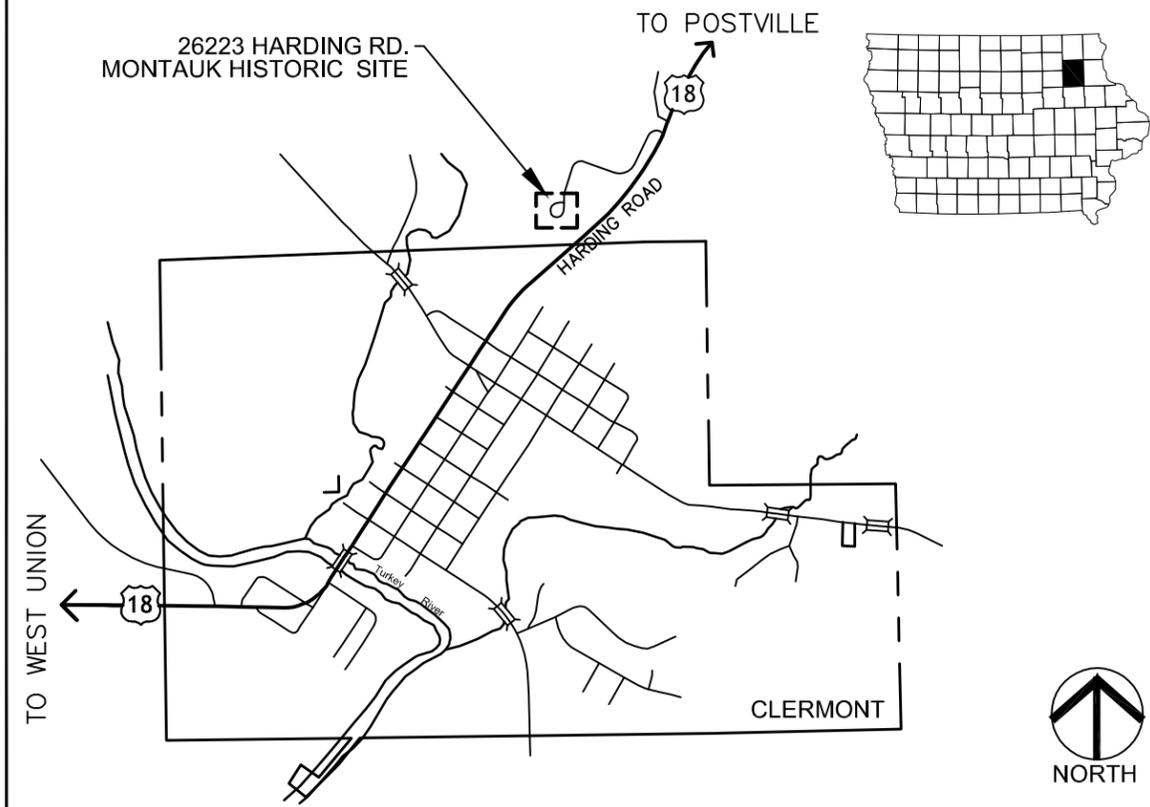
SITE NOTES:

1. ALL WORK AREAS ARE TO BE THOROUGHLY CLEANED UP AT THE END OF EACH DAY. REMOVE EQUIPMENT, DEMO CARTS, AND ALL DEMOLISHED MATERIALS AND CONSTRUCTION WASTE DAILY TO CONTRACTOR'S STAGING AREA.
2. COORDINATE DUMPSTER LOCATION WITH CM AND SITE MANAGER. SEE MAP FOR PROPOSED LOCATION.
3. SEE MAP FOR CONTRACTOR'S MATERIAL STAGING AND PARKING LOCATIONS.
4. SEE SPECIFICATION FOR WORK HOURS. COORDINATE WITH OWNER FOR ANY PROPOSED EXTENDED WORK HOURS INCLUDING WEEKENDS.
5. PROVIDE TEMPORARY BARRIER AND CAUTION LINES AROUND WORK AREA. DO NOT DRIVE POSTS IN GROUND. USE BALLASTED POSTS.
6. CONTRACTOR TO PROTECT AND REPAIR ALL AREAS OF DAMAGED LAWN. PROTECT LAWN UNDER EQUIPMENT WITH SHEETS OF PLYWOOD. REPAIR RUTS AND RESEED. OWNER WILL WATER UNTIL LAWN HAS BEEN RE-ESTABLISHED.
7. SEQUENCE SOUTH PAVERS AFTER THE PORCH COLUMN WORK IS COMPLETED.

AERIAL PHOTO NOT TO SCALE



LOCATION MAP NOT TO SCALE



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LOCATION MAP
&
MANSION KEY PLAN

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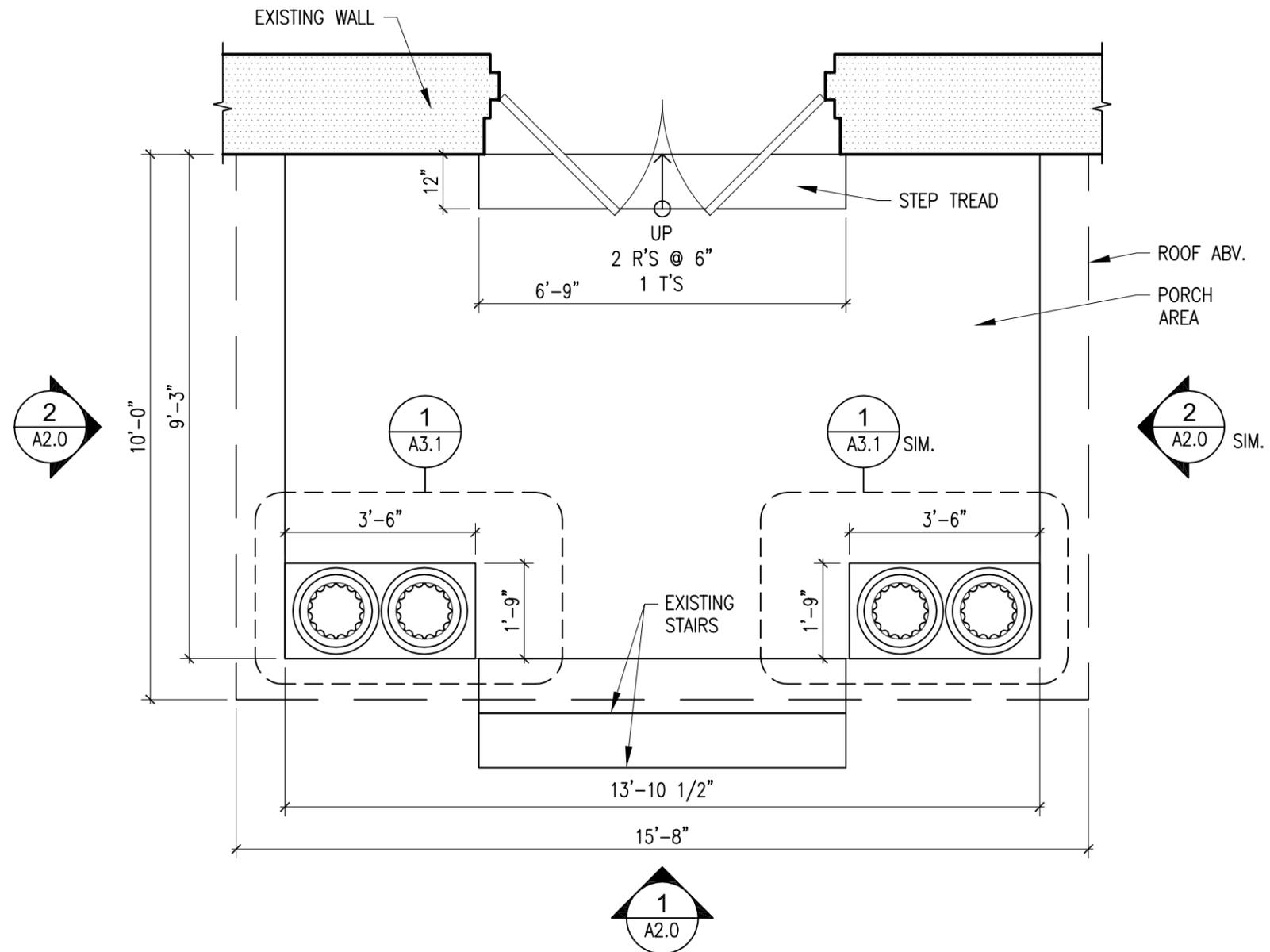
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3 OF 19

GENERAL NOTES:

1. ALL WORK IS TO CONSTRUCTED IN COMPLIANCE WITH STATE BUILDING CODES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES.
2. NOTE DRAWING SCALES FOR EACH PLAN AND SHEET. PLANS AND DETAILS VARY IN SCALE.
3. CONTRACTOR VERIFY ALL DIMENSIONS WITH FIELD MEASUREMENTS. ITEMS, QUANTITIES AND SQUARE FOOT QUANTITIES ARE ESTIMATES. FIELD VERIFY ALL QUANTITIES.
4. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH WORK.
5. PROTECT ALL FINISHED WORK FROM ADJACENT CONSTRUCTION FOR THE DURATION OF CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND TEMPORARY BRACING WHEREVER NECESSARY.
7. ANY CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK.
8. PROVIDED TREATED WOOD WHERE WOOD IS IN CONTACT WITH CONCRETE.

DEMOLITION NOTES:

- A. PRIOR TO DEMOLITION, CONTRACTOR SHALL NOTIFY THE SITE MANAGER, OWNER AND CONSTRUCTION MANAGER.
- B. ALL CONSTRUCTION/DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE IN FULL COMPLIANCE WITH CURRENT ENVIRONMENTAL REGULATIONS.
- C. PROVIDE SHORING TO SUPPORT THE PORCH ROOF DURING CONSTRUCTION AND TO PREVENT TEMPORARY WIND UPLIFT. SUBMIT SHORING PLAN. SEE SPEC SECTION 02 4296. PROTECT UPPER EXISTING , CAPITALS, BEAM AND PORCH ELEMENTS FROM DAMAGE.
- D. DEMOLISH ALL FOUR PORCH COLUMNS FULL HEIGHT FROM BOTTOM OF CAPITAL DOWN TO INCLUDE BASE PLINTH BOX. DO NOT DEMOLISH CAPITALS ABOVE FIRST ROUND.
- E. DEMOLISH FOUNDATION PIER TRIM BOARDS FOR REPLACEMENT.
- F. NOTE EXISTING TIE RODS INSIDE COLUMNS WILL PREVENT RAISING THE PORCH ROOF WITH SHORING. CUT TIE RODS AND REMOVE.
- G. CUT EXISTING TIE RODS AND SALVAGE EXISTING COLUMNS IN ONE PIECE TO OWNER. MOVE TO ON-SITE STORAGE LOCATION FOR OWNER.



PORCH PLAN

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

1
A1.0

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PORCH PLAN

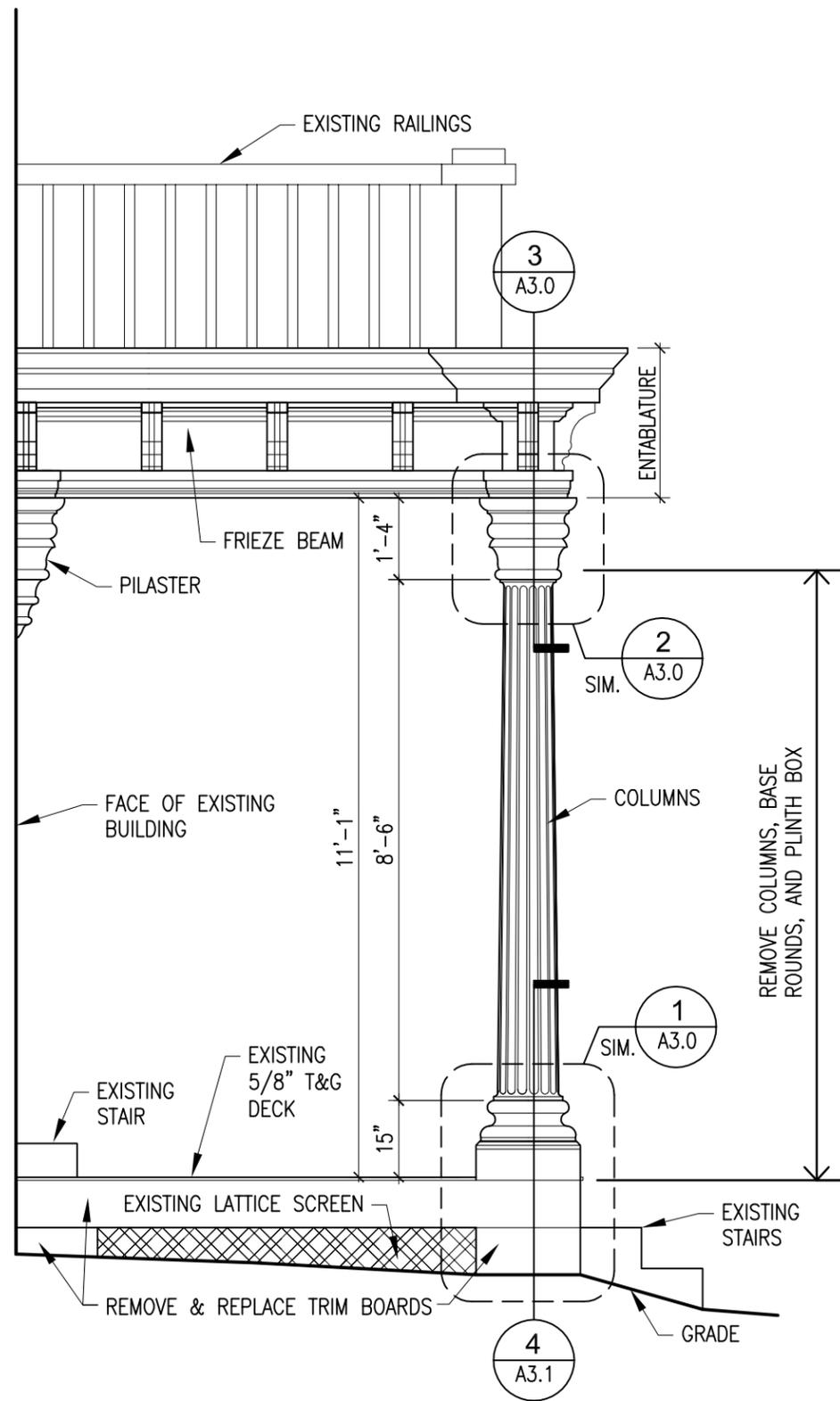
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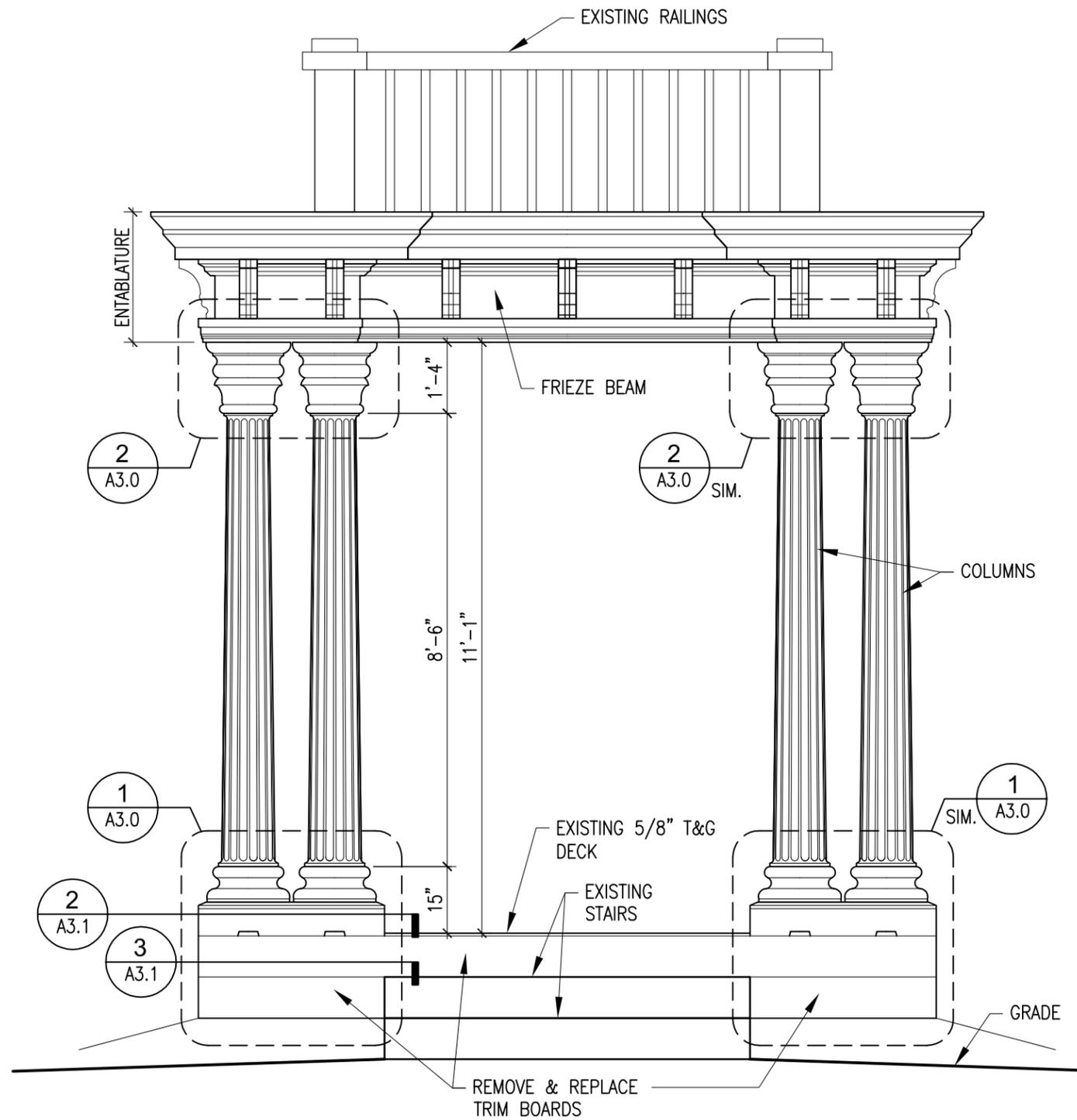
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SIDE ELEVATION SIM. ON OTHER SIDE

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

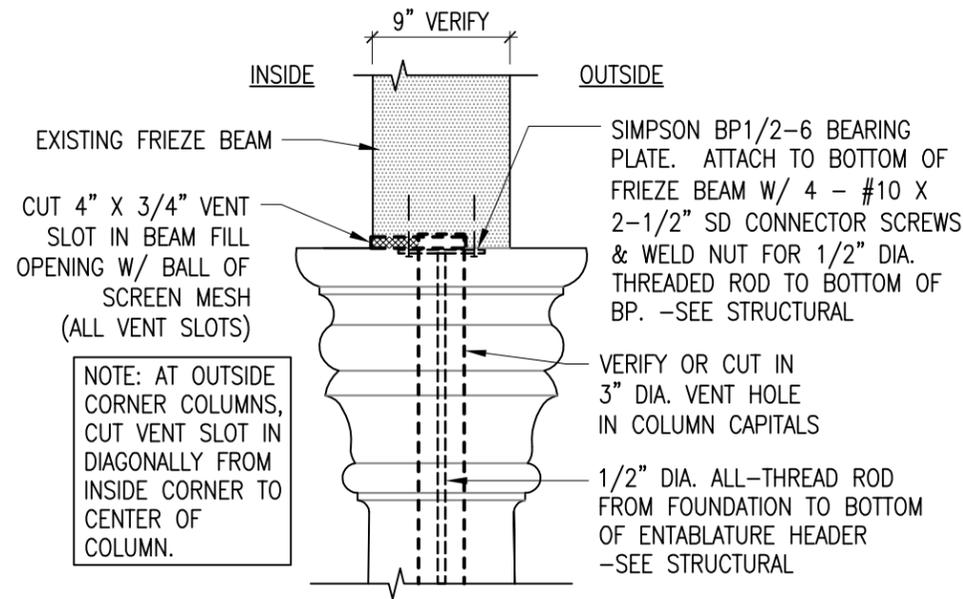
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A2.0



FRONT ELEVATION

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

1
A2.0



COLUMN CAPITAL DETAIL

3
A3.0

SCALE: 1" = 1'-0"

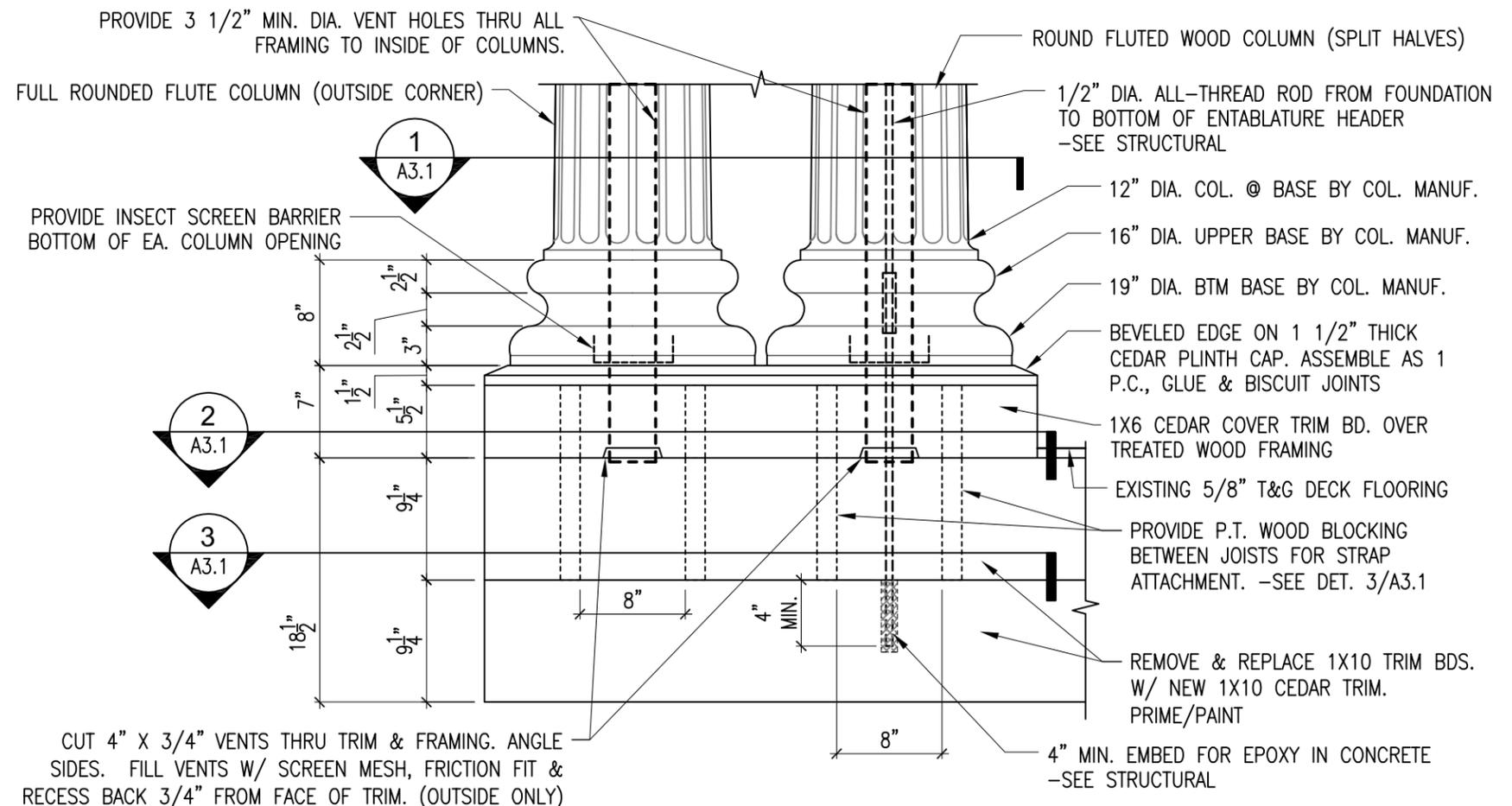
CONSTRUCTION NOTES:

- INSTALL FOUR NEW FLUTED WOOD PORCH COLUMNS TO MATCH EXISTING, FULL HEIGHT FROM BOTTOM OF CAPITAL DOWN TO AND INCLUDING BASE PLINTH BOX. TWO INSIDE COLUMNS WILL BE SHIPPED SPLIT IN HALVES AND INSTALLED AROUND THE TIE DOWN STRAP. GLUE AND CLAMP COLUMNS PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL NEW FOUNDATION PIER TRIM BOARDS. TRIM BOARDS TO BE CEDAR OR REDWOOD. MATCH SIZE AND PROFILE OF EXISTING. ATTACH WITH SELF-TAPPING SCREWS IN TO CONCRETE PIER FDN. RECESS HEADS AND COVER WITH PATCHING COMPOUND.
- NOTE EXISTING TIE RODS INSIDE COLUMNS WILL PREVENT RAISING THE PORCH ROOF WITH SHORING. CUT TIE RODS & REMOVE.
- PROVIDE VENT SLOT OVER UPPER CAPITALS BY CUTTING 3/4" X 2" SLOT IN INSIDE BOTTOM OF PORCH ROOF BEAM. PROVIDE ONE VENT SLOT AT TOP FOR EACH COLUMN. FILL HOLE WITH SCREEN MESH FRICTION FIT FLUSH.
- PROVIDE VENT HOLES THROUGH ALL BASE ROUNDS FROM VENTED PLINTH TO INSIDE OF COLUMNS. VENTING TO BE CONTINUOUS FROM AIR SPACE UNDER PORCH FLOOR TO TOP OF COLUMNS AT BOTTOM OF ROOF PORCH. PROVIDE INSECT SCREEN ACROSS BOTTOM OPENING.
- CONSTRUCT NEW PLINTH BASE BOX WITH SLOPED CAP TO MATCH EXISTING. INSIDE FRAMING TO BE TREATED WOOD. OUTSIDE TRIM TO BE CEDAR OR REDWOOD. PRIME AND PAINT.
- PRIME & PAINT ALL NEW WOOD. ANY EXISTING WOOD THAT IS REMOVED FOR WORK & REINSTALLED IS TO HAVE NAIL HOLES FILLED & HAVE TOUCH UP PAINT.

COLUMN TOP

SCALE: 1" = 1'-0"

2
A3.0



COLUMN BASE

SCALE: 1" = 1'-0"

1
A3.0

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COLUMN
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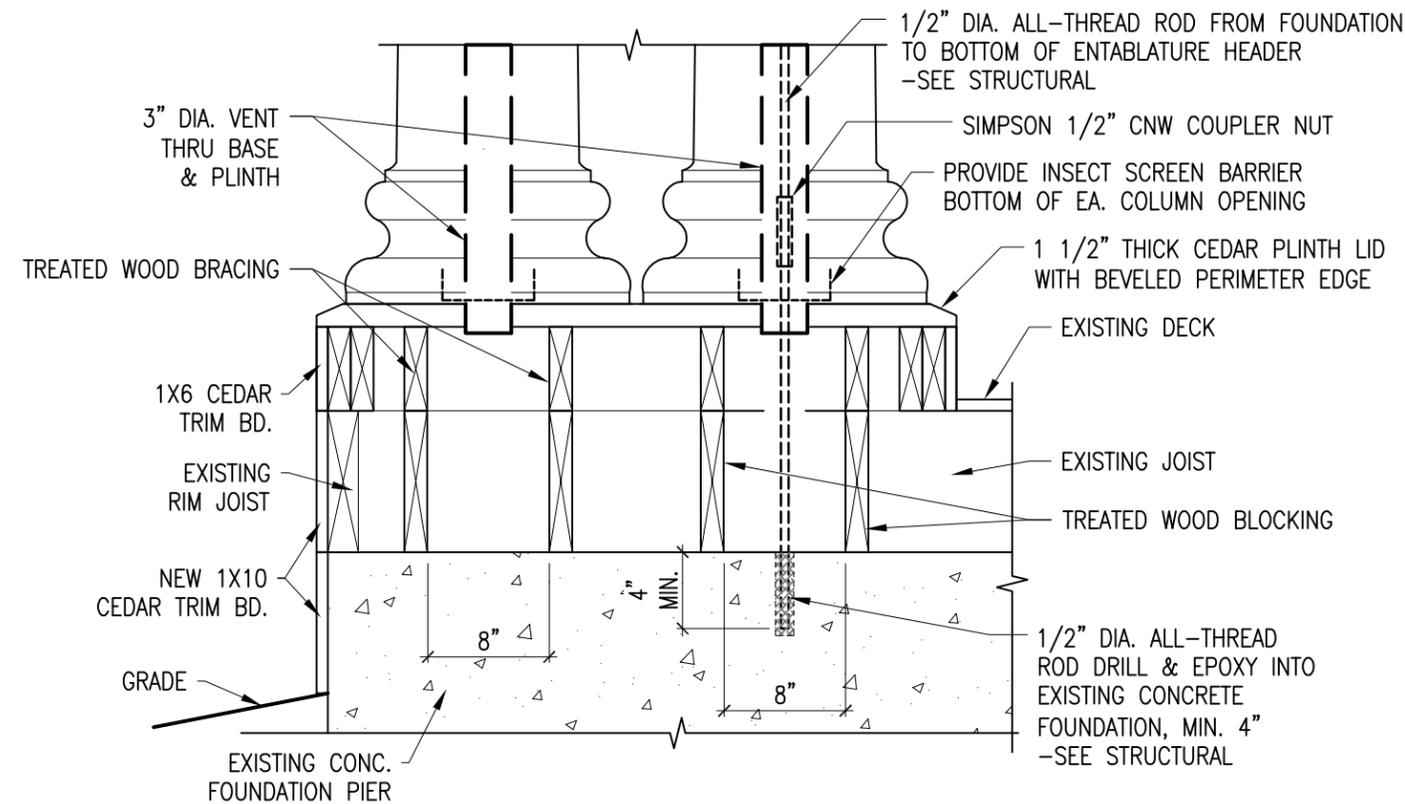
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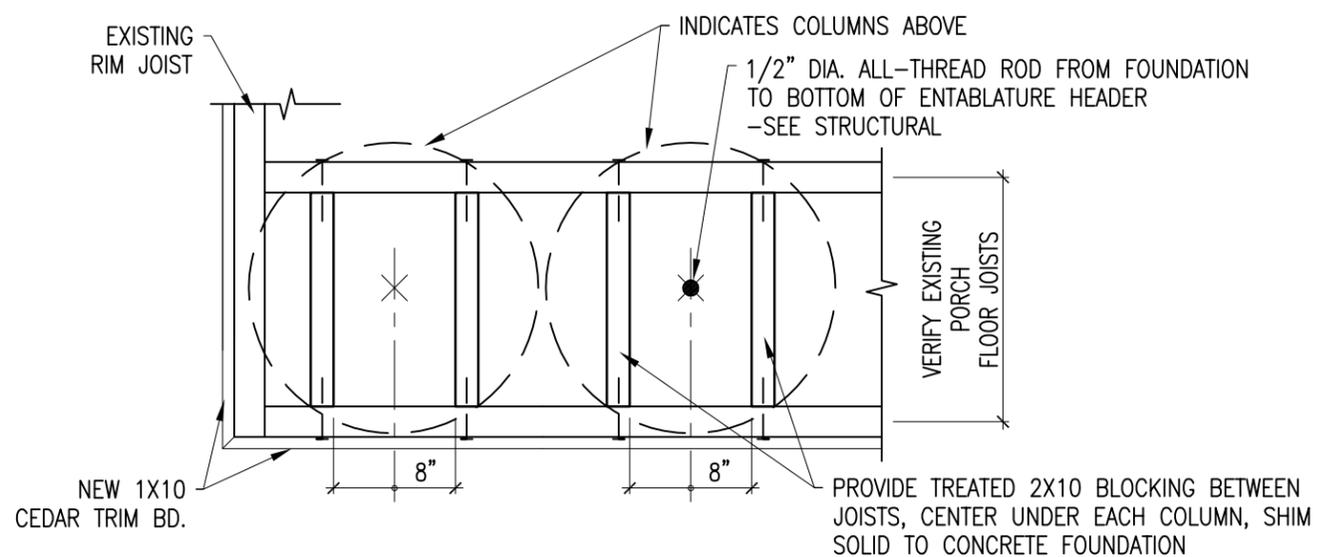


COLUMN BASE SECTION

SCALE: 1" = 1'-0"

4

A3.1



PORCH FLOOR FRAMING DETAIL

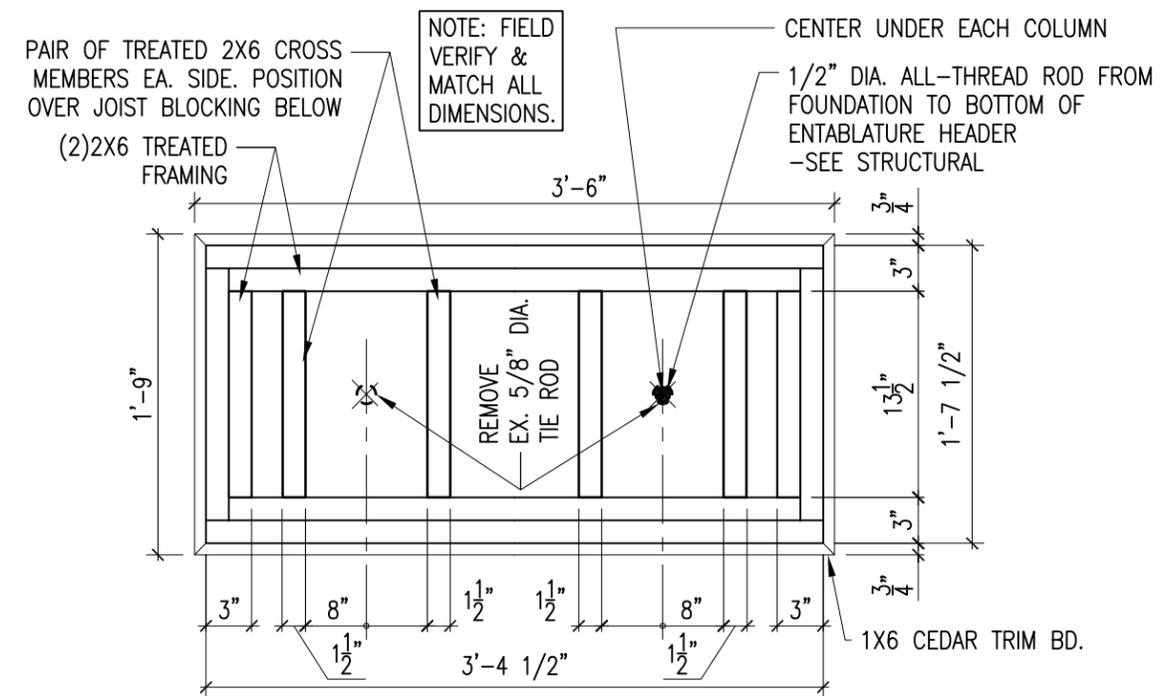
SCALE: 1" = 1'-0"

3

A3.1

FRAMING NOTES:

A. REMOVE EXISTING COLUMN BASES & REBUILD NEW.

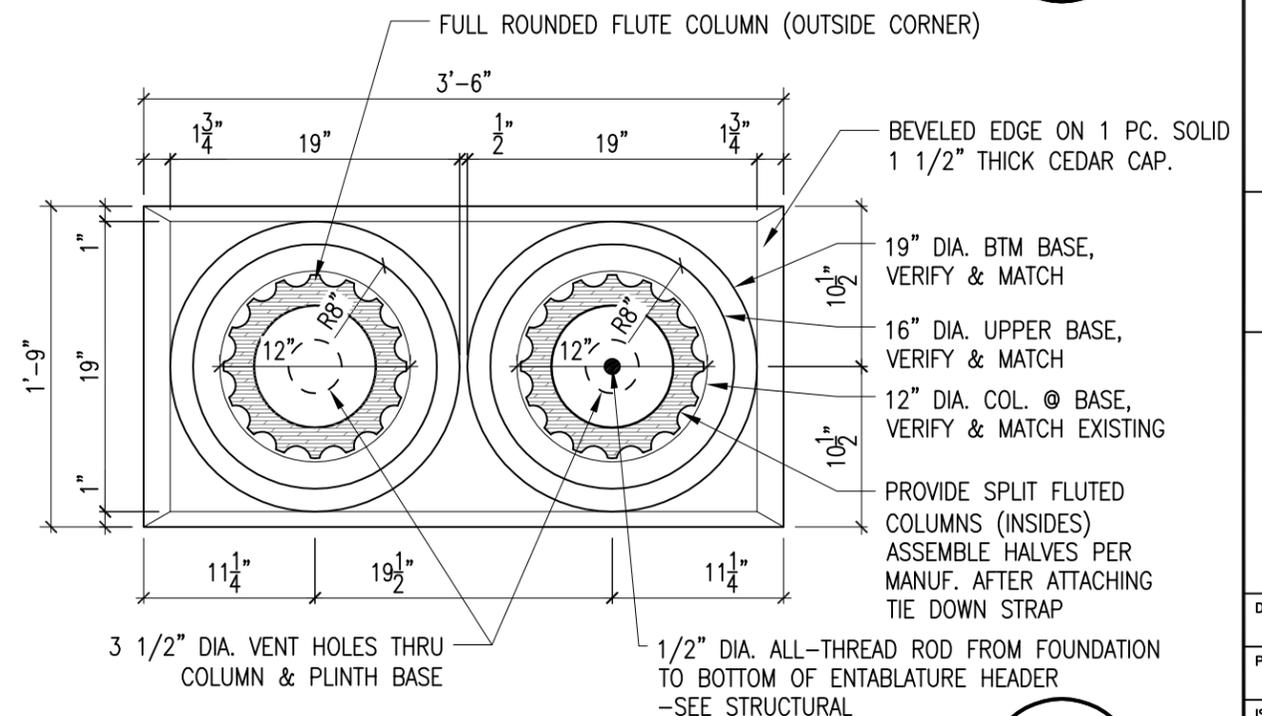


COLUMN BASE FRAMING PLAN

SCALE: 1" = 1'-0"

2

A3.1



COLUMN BASE DETAIL

SCALE: 1" = 1'-0"

1

A3.1

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COLUMN
DETAILS

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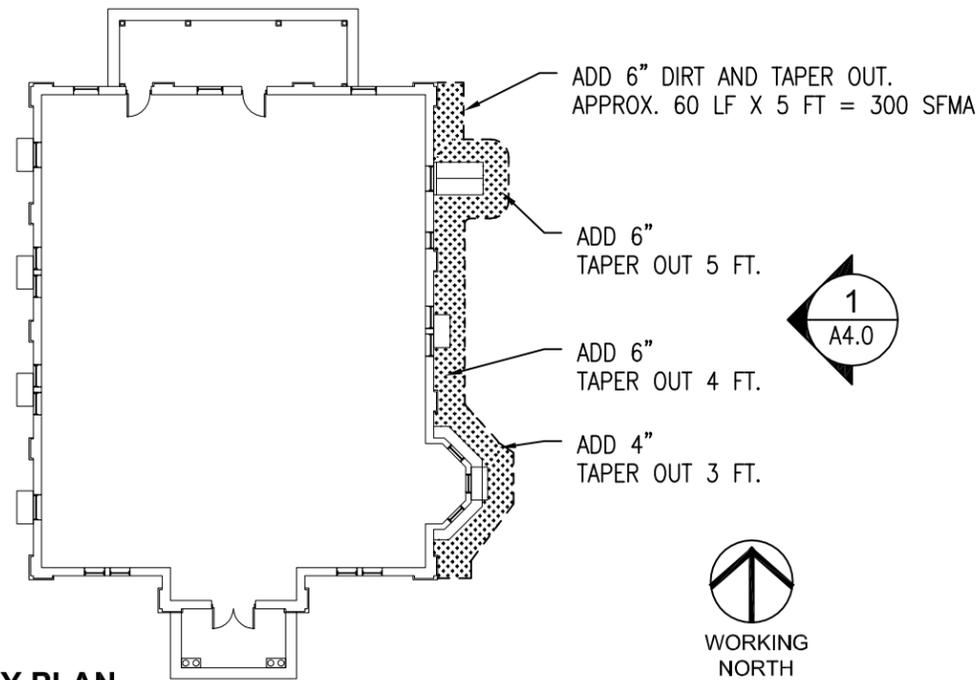
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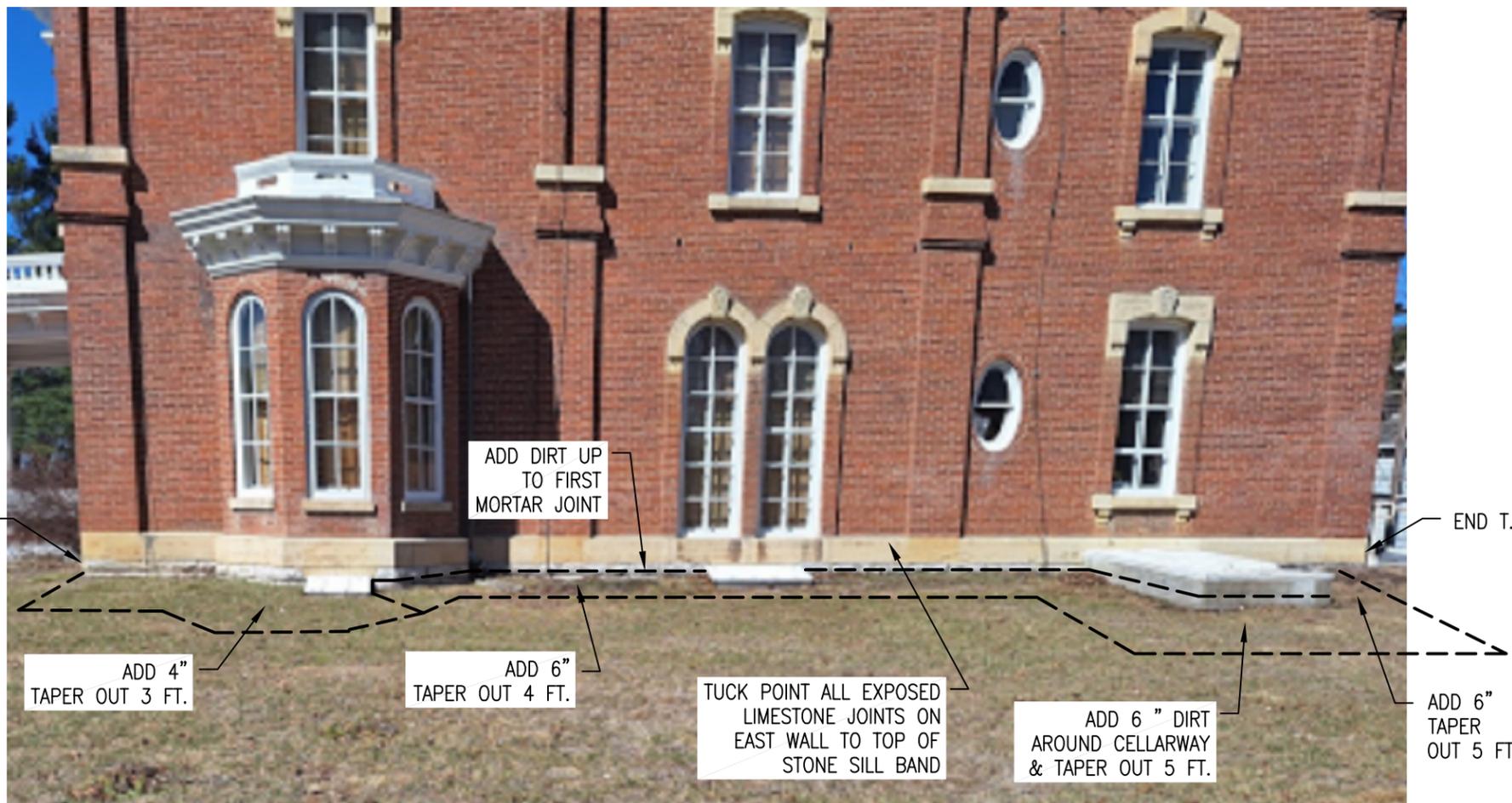
A3.1

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MANSON KEY PLAN

NOT TO SCALE



NOTE: NO EXCAVATION, ONLY ADDING DIRT FOR SLOPE AWAY FROM BUILDING

EAST ELEVATION

N.T.S.



GENERAL NOTES:

1. ALL WORK IS TO CONSTRUCTED IN COMPLIANCE WITH STATE AND LOCAL BUILDING CODES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES.
2. ALL PERMITS AND FEES REQUIRED TO COMPLETE THE WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
3. DO NOT SCALE DRAWINGS. DIMENSION SCALES VARY.
4. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, MEASUREMENTS, QUANTITIES AND SITE CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.
5. LINEAL FOOTAGES INDICATED ARE APPROXIMATED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL BUILDING CONDITIONS AND SELF PERFORM THEIR OWN ESTIMATES.
6. COORDINATE CONSTRUCTION DUMPSTER LOCATIONS WITH OWNER. WORK AREAS ARE TO BE CLEANED UP AT THE END OF EACH DAY. JOB SITE SHALL BE KEPT CLEAN AT ALL TIMES.
7. PROTECT ADJACENT BUILDING ELEMENTS FROM DAMAGE DURING WORK. REPAIR ANY DAMAGE TO ADJACENT AREAS.
8. ALL CONSTRUCTION DEBRIS AND WASTE SHALL BE DISPOSED OF OFFSITE IN FULL COMPLIANCE WITH CURRENT ENVIRONMENTAL REGULATIONS.

TUCKPOINTING NOTES:

- A. ALL MORTAR JOINTS ARE TO BE TOOLED CONCAVE. REPLACE ANY MORTAR THAT HAS AIR POCKETS OR DOES NOT HAVE PROPER SIDE ADHESION.
- B. LIME MORTARS ARE TO BE SLOW CURED PER SPECIFICATIONS. MIST MORTAR FOR 3 DAYS DURING CURING PERIOD.

GRADING NOTES:

1. ADD DIRT ONLY. EXCAVATION IS PROHIBITED.
2. DO NOT DISTURB SITE IN ANY OTHER AREAS OTHER THAN IMMEDIATE WORK AREAS.
3. PROVIDE TOPSOIL THAT IS ORGANIC LOAM SUITABLE FOR LAWNS.
4. SLOPE AREAS OUT FROM BUILDING AS SHOWN. TAPER GRADUALLY TO EXISTING GRADES.
5. SEED NEW GRADED AREAS TO ESTABLISH LAWN. OWNER WILL WATER SEEDDED AREAS.

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DCA MON
MAIN HOUSE SITE WORK AND OUTBUILDING REPAIRS
BID PACKAGE FOR MULTIPLE REPAIRS
26223 HARDING RD
CLERMONT, IOWA

FINAL
ISSUE
DRAWINGS

SITE DRAINAGE
&
TUCK POINTING

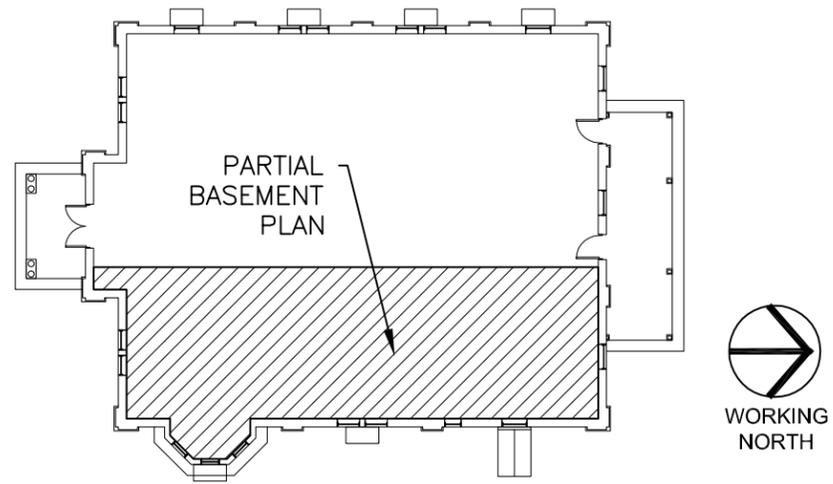
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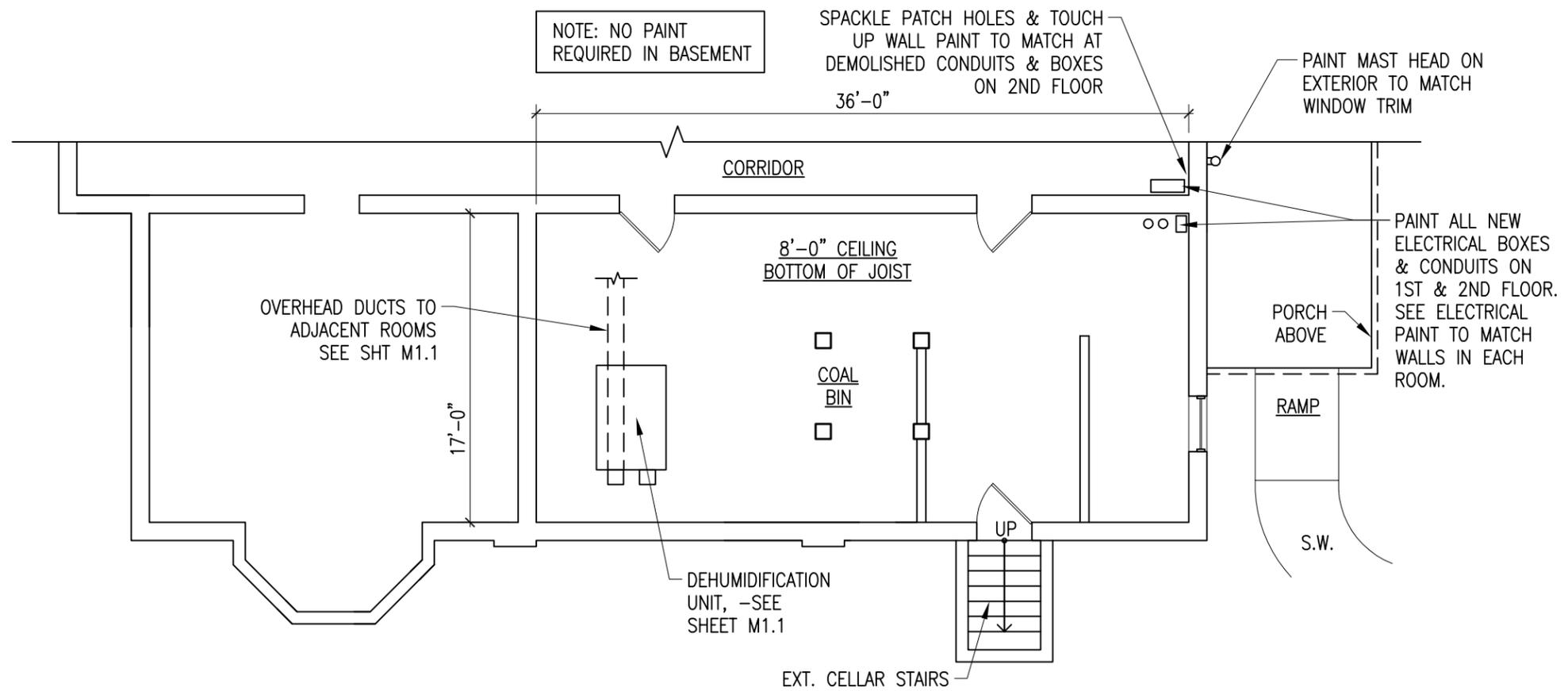
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MANSION KEY PLAN

NOT TO SCALE



PARTIAL BASEMENT PLAN

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

1
A6.0



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FINAL
ISSUE
DRAWINGS

PARTIAL BASEMENT
FLOOR PLAN

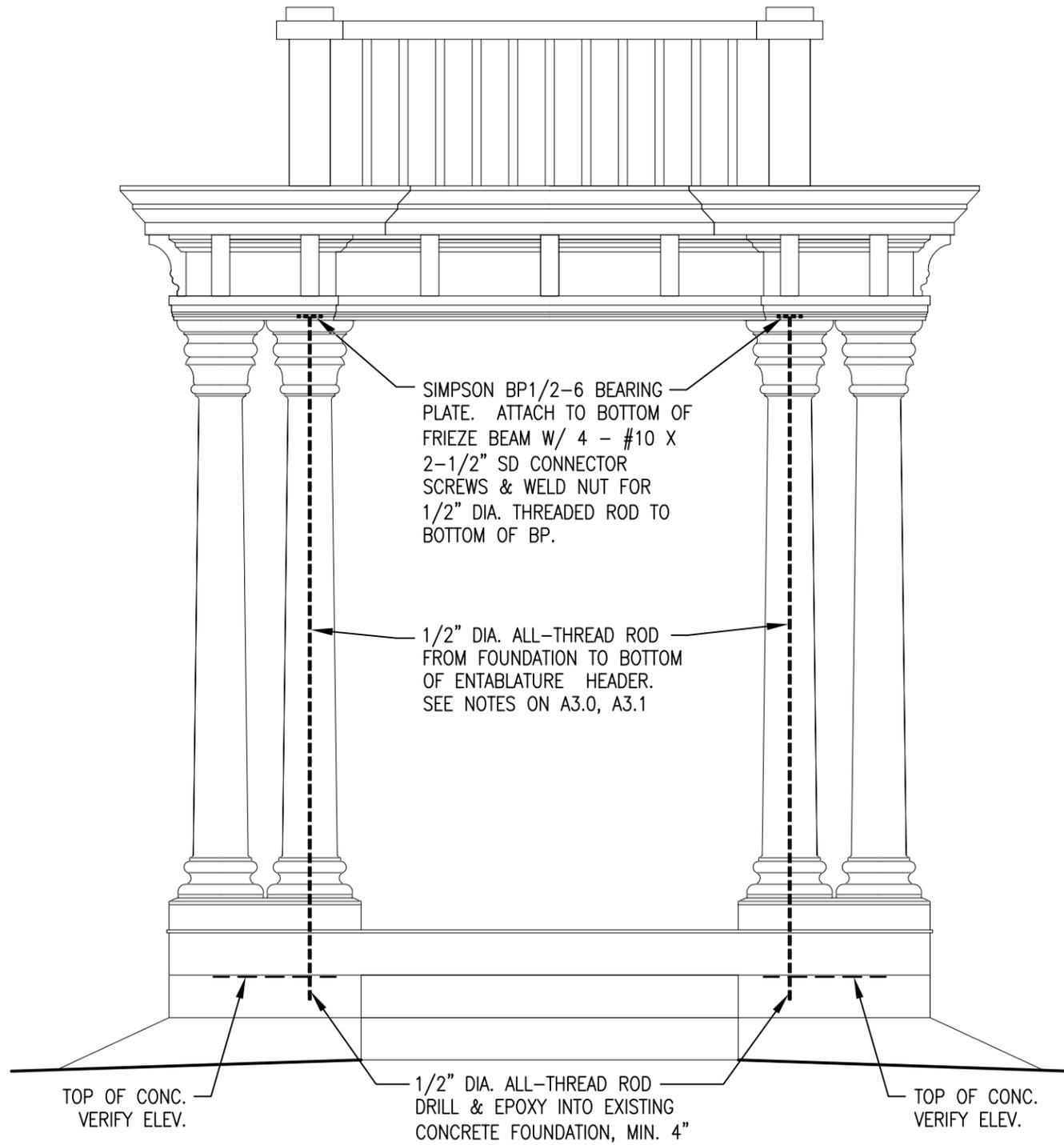
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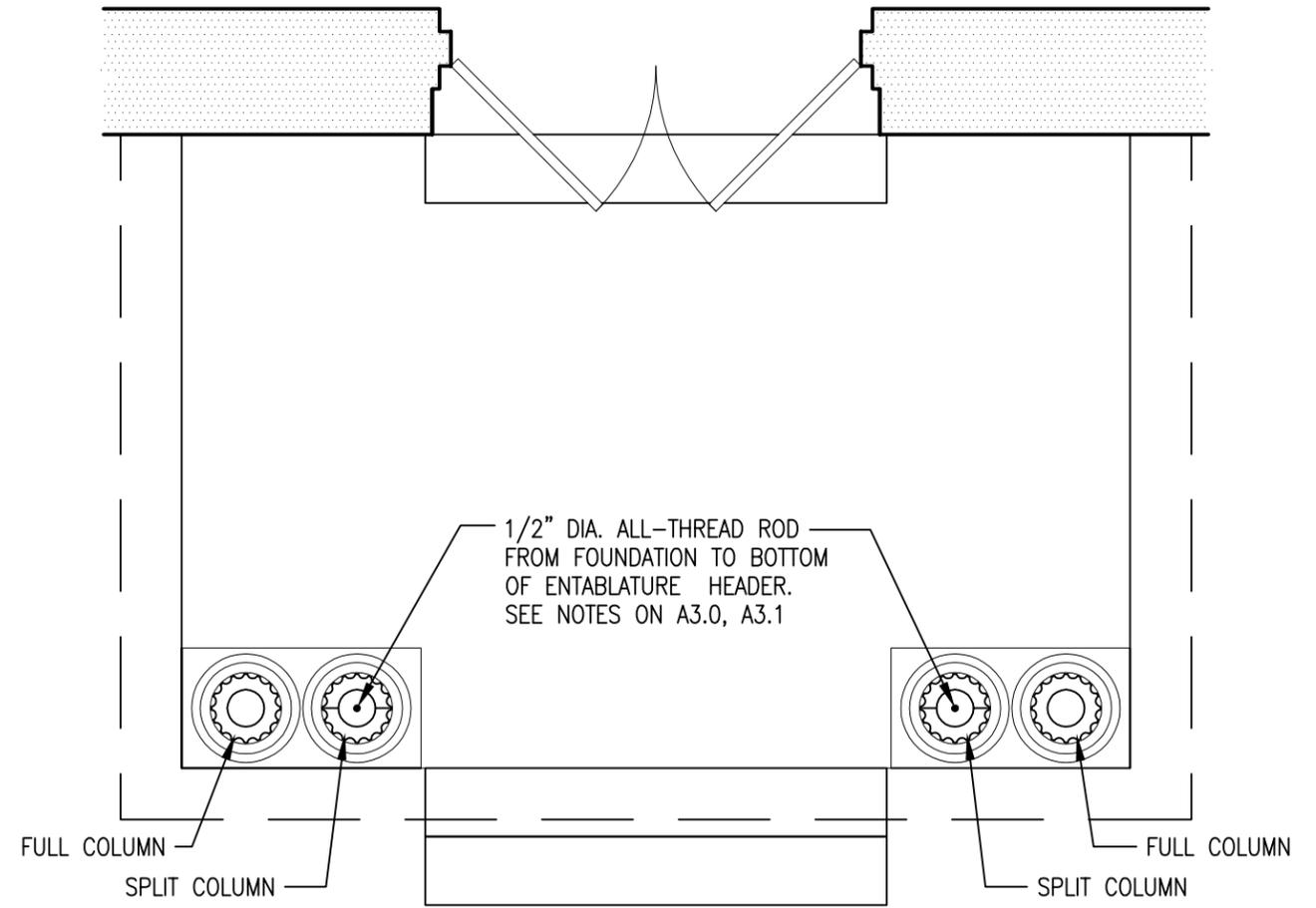
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STRUCTURAL FRONT ELEVATION

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

2
S1.0



STRUCTURAL PORCH PLAN

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

1
S1.0

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FINAL
ISSUE
DRAWINGS

STRUCTURAL
DETAILS

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S1.0

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GENERAL MECHANICAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, AS WELL AS LOCAL UTILITY REQUIREMENTS. PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM AND MAINTAIN WARRANTY REQUIREMENTS. VERIFY ALL EQUIPMENT PROVIDED IS SUITABLE FOR INTENDED USE.
2. WORK NOT SPECIFICALLY SHOWN IN DETAIL, REFERENCED, OR OTHERWISE IMPLIED, SHALL BE PROVIDED IN ACCORDANCE WITH TRADE OR INDUSTRY BEST STANDARD PRACTICES TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
3. ALL MATERIALS SHALL BE NEW AND SHALL BE OF THE TYPE AND SHALL MEET THE CAPACITIES OF EQUIPMENT SPECIFIED ON THE DRAWINGS.
4. ALL EQUIPMENT LISTED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR SERVICE IN ACCORDANCE WITH ENGINEERING DATA, RATINGS, OR OTHER COMPREHENSIVE LITERATURE MADE AVAILABLE TO THE PUBLIC AND IN EFFECT AT THE TIME OF OPENING BIDS.
5. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS FOR TYPE AND CAPACITY OF EACH PIECE OF EQUIPMENT USED.
6. ALL CUTTING AND PATCHING REQUIRED FOR MECHANICAL WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL FINISHED SURFACES THAT ARE CUT SHALL BE REPLACED IN KIND SO THERE IS NO VISIBLE EVIDENCE OF CUTTING AND/OR PATCHING.
7. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT MECHANICAL SYSTEM COMPONENTS IN A NEAT AND WORKMANLIKE MANNER. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
8. COORDINATE DUCTWORK ROUTING AND EQUIPMENT WITH BUILDING STRUCTURE, LIGHTING, AND FIRE ALARM DEVICES.
9. DUCTWORK SUPPORTS SHALL BE SECURED TO STRUCTURE AT 5'-0" ON CENTER.
10. ALL EXPOSED MATERIALS SHALL BE PLENUM RATED.
11. NO LOADS SHALL BE PERMITTED TO BE HUNG FROM ROOF DECKING. ALL HANGERS SHALL BE HUNG DIRECTLY FROM STRUCTURE.
12. PROVIDE THIRD PARTY TESTING AND BALANCING OF MECHANICAL SYSTEM.
13. PROVIDE AS-BUILT DRAWINGS FOR MECHANICAL SYSTEMS WITHIN 30 DAYS OF FINAL COMPLETION.
14. PROVIDE O&M MANUALS FOR ALL SYSTEMS AND EQUIPMENT TO OWNER WITHIN 30 DAYS OF FINAL COMPLETION.

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MECHANICAL NOTES

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GRILLES/REGISTERS/DIFFUSERS SCHEDULE											
Mark	Manufacturer	Model	Frame Size (in)	Type	NC	Neck Size (in)	Border/Frame	Material		Finish	Notes
								AL	ST		
S-1	Titus	300FL	Neck + 1-3/4"	Double Deflection Supply Grille, 3/4" Blade Spacing	<30	See Dwgs	Surface		X	Mill	1

Notes:

1. Provide with opposed blade damper.

DEHUMIDIFICATION UNIT SCHEDULE															
Mark	Area Served	Manufacturer	Airflow (cfm)	ESP (in WC)	Supply Fan Power (hp)	EAT DB/WB (°F)	LAT DB/WB (°F)	Moisture Removed (lb/hr)	Compressor Capacity (tons)	Electrical				Weight (lb)	Notes
										Voltage	Phase	MCA	MOCP		
DHU-1	Basement	Novelaire	600	0.8	15	65.0/65.0	100.6/1	13	2	208	1	20	20		1

Notes:

1. Provide with humidity sensor control.

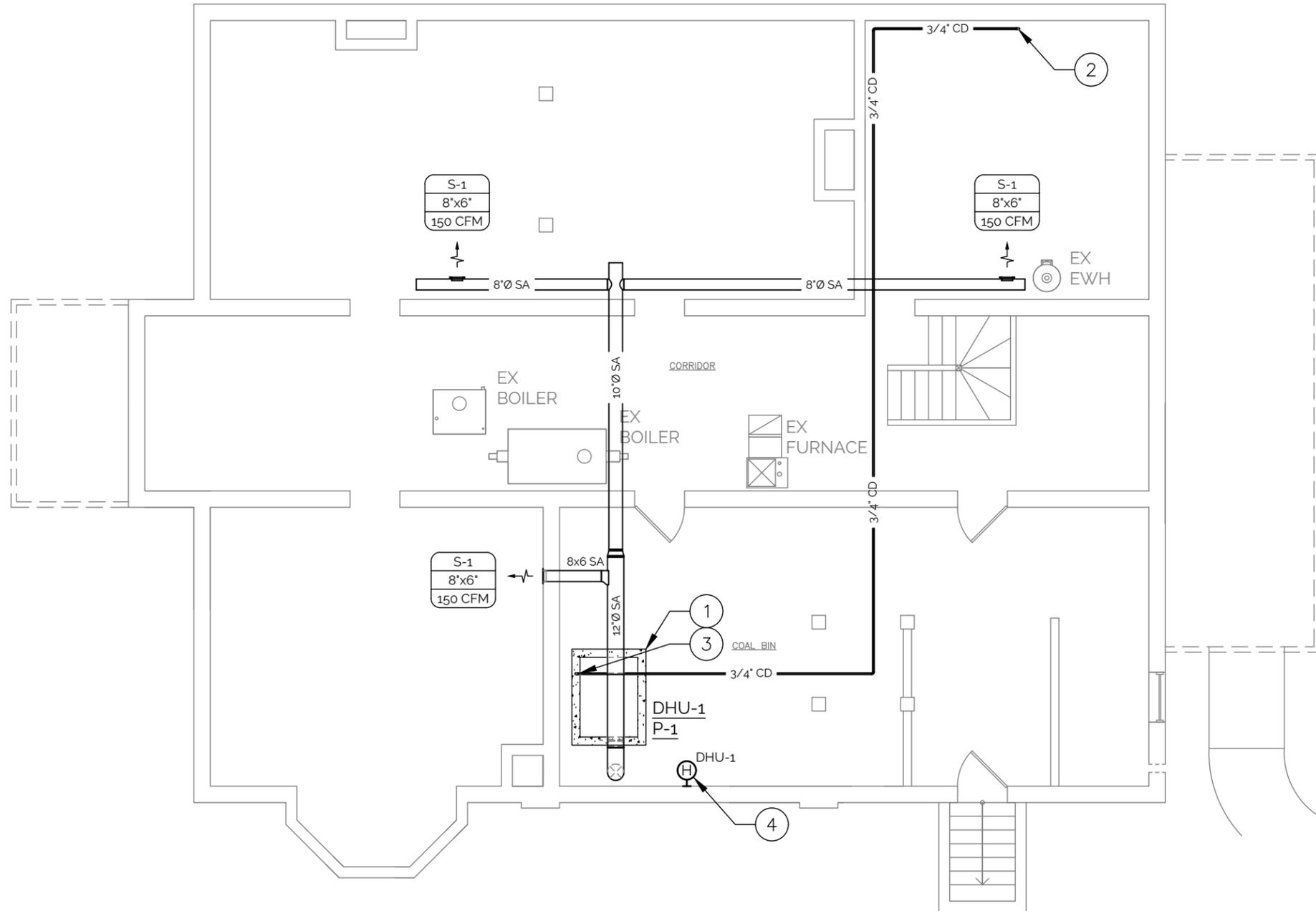
PUMP SCHEDULE												
Mark	Manufacturer	Model	Configuration	System	Suction Size (in)	Discharge Size (in)	Flow (gph)	Head (ft)	Electrical			Notes
									HP	Voltage	Phase	
P-1	Little Giant	VCMA-20-ULS-PRO	Vertical	Condensate	1-1/8	3/8	10	20	1/30	120	1	1,2

Notes:

1. Provide with float switch, overflow detection switch, and disconnect.
2. Approved Manufacturers: Grundfos, Taco

KEYED NOTES

- ① PROVIDE 4" CONCRETE HOUSEKEEPING PAD FOR DEHUMIDIFICATION UNIT.
- ② ROUTE CONDENSATE PIPING TO EXISTING RECEPTOR.
- ③ 3/4" CD DOWN TO CONDENSATE PUMP. CONNECT CONDENSATE FROM DEHUMIDIFICATION UNIT TO CONDENSATE PUMP WITH A MINIMUM 3" TRAP.
- ④ PROVIDE 24V HONEYWELL DG115EZIAQ DIGITAL HUMIDISTAT TO CONTROL DHU-1.



1 BASEMENT MECHANICAL PLAN
1/8" = 1'-0"

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GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, AS WELL AS LOCAL UTILITY REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH LOCAL CODE OFFICIALS TO DETERMINE IF ANY CODE INTERPRETATIONS BY CODE ENFORCEMENT OFFICIALS WILL IMPACT PLANNED WORK.
2. PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM AND MAINTAIN WARRANTY REQUIREMENTS. VERIFY ALL EQUIPMENT PROVIDED IS SUITABLE FOR INTENDED USE. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. WORK NOT SPECIFICALLY SHOWN IN DETAIL, REFERENCED, OR OTHERWISE IMPLIED, SHALL BE PROVIDED IN ACCORDANCE WITH TRADE OR INDUSTRY BEST STANDARD PRACTICES TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
4. CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE EXACT ROUTING REQUIRED.
5. COORDINATE EXACT WIRING REQUIREMENTS WITH MANUFACTURER'S REQUIREMENTS FOR EACH FIXTURE AND PIECE OF EQUIPMENT.
6. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS IN A NEAT AND WORKMANLIKE MANNER AS SPECIFIED IN NECA 1. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
7. INSTALL CONDUIT SECURELY IN A NEAT AND WORKMANLIKE MANNER AS SPECIFIED IN NECA 1.
8. EQUIPMENT CONNECTIONS: MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT.
9. INSTALL DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES TO COMPLETE EQUIPMENT WIRING REQUIREMENTS.
10. TEST LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING, AND OPERATION.
11. PROVIDE TYPE-WRITTEN PANEL DIRECTORY ON ELECTRICAL PANELS. HANDWRITTEN TEXT IS NOT ACCEPTABLE.
12. COORDINATE COLOR OF RECEPTACLES AND COVER PLATES TO MATCH THE COLOR SCHEME PER ARCHITECTURAL DRAWINGS.
13. PROVIDE AS-BUILT DRAWINGS FOR ELECTRICAL SYSTEMS WITHIN 30 DAYS OF FINAL COMPLETION.
14. PROVIDE O&M MANUALS FOR ALL SYSTEMS AND EQUIPMENT TO OWNER WITHIN 30 DAYS OF FINAL COMPLETION.
15. ALL EXPOSED CABLING SHALL BE PLENUM RATED.
16. CONTRACTOR(S) SHALL UNCONDITIONALLY WARRANTY IN WRITING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. CONTRACTOR(S) SHALL PROVIDE FREE SERVICE FOR ALL EQUIPMENT INVOLVED IN THEIR CONTRACT DURING THE WARRANTY PERIOD.

ELECTRICAL LEGEND

	EQUIPMENT POWER CONNECTION
	EQUIPMENT DISCONNECT SWITCH
	PUMP W/ DISCONNECT SWITCH
S	SINGLE POLE SWITCH - DECORATOR STYLE
S ^{DM}	0-10V DIMMER SWITCH - DECORATOR STYLE

LIGHT FIXTURE SCHEDULE

Mark	Fixture Description	Basis of Design		Fixture Data							Mounting Type						Options	Notes	Approved Manufacturers
		Manufacturer	Model	Driver	Delivered Lumens	Watts	Efficacy (lm/w)	Voltage	Color Temp	CRI (min)	Location			Arrangement					
											Ceiling	Wall	Pole	Grade	Recessed	Surface			
EL1	Egress Light	Compass	CU2SD	---	---	0.56	---	120	---	---	X	X				X	NiCad Battery Self-Diagnostics		

PANEL A

VOLTAGE (L-N):	120	ENCLOSURE TYPE:	TYPE 1
VOLTAGE (L-L):	240	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ , 3 W	AIC RATING:	12000
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	----
MAIN O.C. DEVICE (A):	200 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)		POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A	B				
1,3	Dehumidification Unit	25	2	2080	1900	2	20	Condensing Unit	2,4
1,3	Dehumidification Unit	25	2		2080	2	20	Condensing Unit	2,4
5,7	Water Heater	20	2	2250	0	1	30	Condensing Unit	6
5,7	Water Heater	20	2		2250	1	20	Water Heater	8
9	Lights	15	1	0	360	1	20	Rcpt - Basement	10
11	Rcpts	15	1		0	1	0	SPACE	12
13	SPACE	0	1	0	0	1	0	SPACE	14
15	SPACE	0	1		0	1	0	SPACE	16
17	SPACE	0	1	0	0	1	0	SPACE	18
19	SPACE	0	1		0	1	0	SPACE	20
				CONNECTED LOAD PHASE TOTALS (VA)					
				6590	6230				

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	DEMAND LOAD	SPARE CAPACITY
Motors	0.0	1.00	0.0	13.9 KVA	40.1KVA
Motors (Largest)	4.2	1.25	5.2	SPARE CAPACITY	167.3 AMPS
Receptacles (0 - 10 KVA)	0.4	1.00	0.4	SPARE CAPACITY	74 %
Cooling and Heating Equipment	8.3	1.00	8.3		
	0.0	1.00	0.0		
TOTAL:	12.8		13.9		
LOAD (AMPS):	53.4		57.8		

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**DCA MON
MAIN HOUSE SITE WORK AND OUTBUILDING REPAIRS
BID PACKAGE FOR MULTIPAL REPAIRS**

26223 HARDING RD
CLERMONT, IOWA

ELECTRICAL
SCHEDULES

DAS NO.
9226.00

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1 ELECTRICAL SITE PLAN
NOT TO SCALE

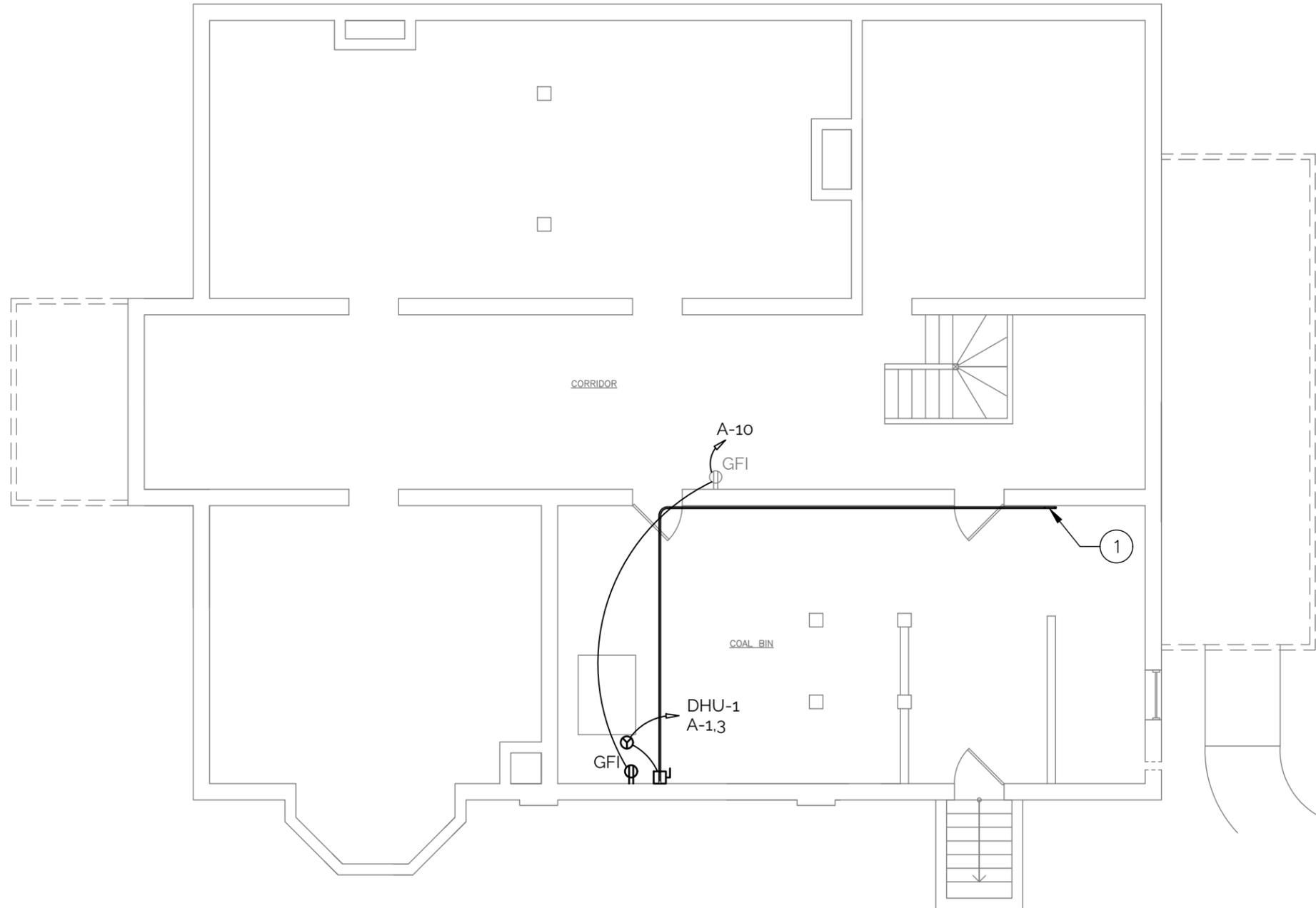


KEYED NOTES

- ① ROUTE (3) NEW 3/0 COPPER CONDUCTORS OVERHEAD FROM EXISTING UTILITY POLE TO NEW PANEL A ON 2ND FLOOR. HORIZONTAL DISTANCE IS APPROXIMATELY 130 FEET. FIELD VERIFY EXACT MEASUREMENTS AND CONDITIONS.

KEYED NOTES

- ① ROUTE CONDUIT FOR DEHUMIDIFICATION UNIT TIGHT TO BASEMENT CEILING. ROUTE CONDUIT UP THROUGH 1ST FLOOR BREAK ROOM AND 2ND FLOOR OFFICE TIGHT TO WALL. FIELD VERIFY EXACT ROUTING TO AVOID CONFLICTS WITH EXISTING SYSTEMS PRIOR TO START OF WORK. PAINT CONDUIT WHERE EXPOSED IN BREAK ROOM AND OFFICE (COLOR BY ARCHITECT).



① BASEMENT ELECTRICAL PLAN
1/8" = 1'-0"

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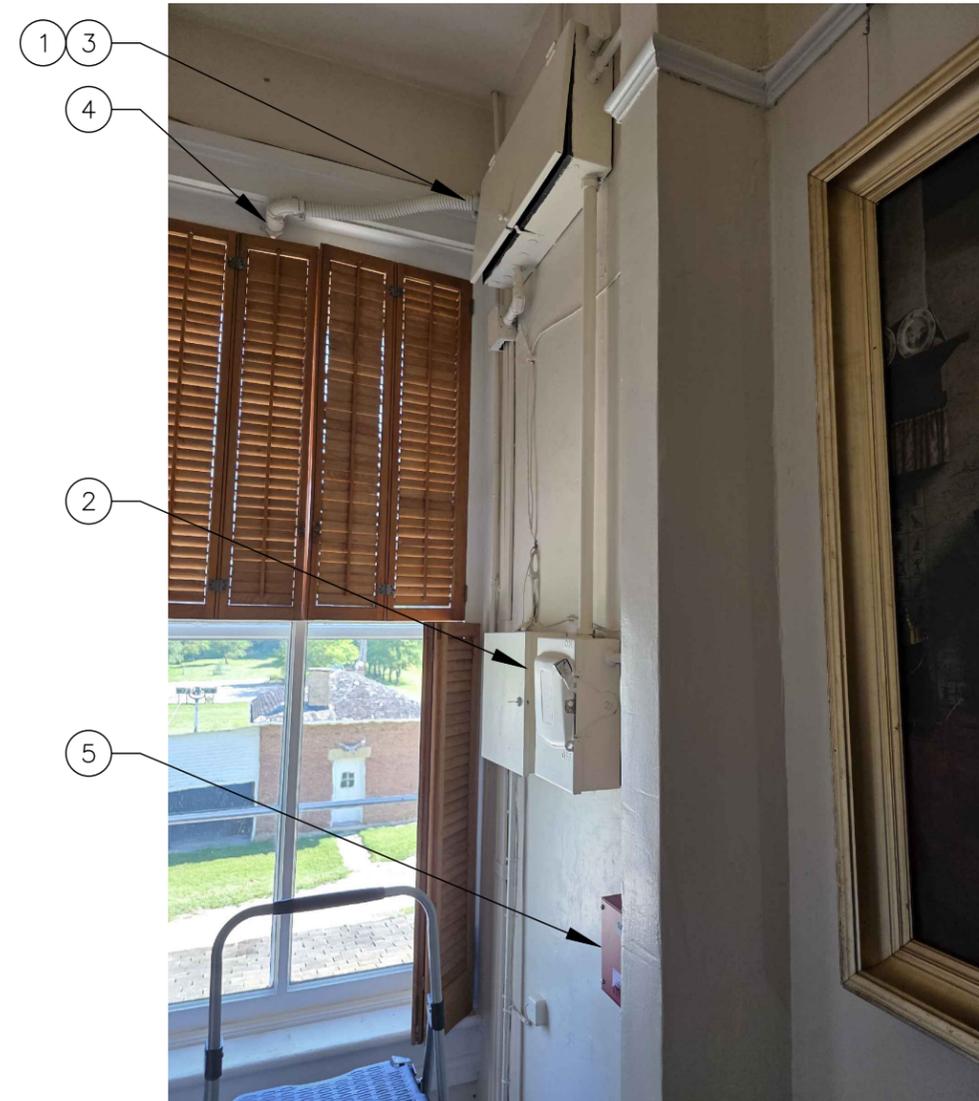
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KEYED NOTES

- ① REMOVE EXISTING ELECTRICAL SERVICE CONDUCTORS AND ELECTRICAL PANEL. BACKFEED EXISTING CIRCUITS FROM NEW ELECTRICAL SERVICE. PAINT NEW CONDUITS TO MATCH WALL. PATCH AND PAINT ANY ABANDONED CONDUIT PENETRATIONS. DO NOT REMOVE EXISTING ELECTRICAL SERVICE UNTIL NEW ELECTRICAL SERVICE IS IN PLACE AND OPERATIONAL. COORDINATE WORK WITH OWNER AND ALLIANT ENERGY.
- ② INSTALL NEW PANEL A IN LOCATION OF DEMO'D DISCONNECT AND JUNCTION BOX. BACKFEED EXISTING 30A-2P CONDENSING UNIT, 20A-2P WATER HEATER, 15A-1P LIGHTING, AND 15-1P RECEPTACLE CIRCUITS. FIELD VERIFY EXISTING CONDITIONS AND ROUTING. DESIGN TEAM SHALL APPROVE CONDUIT ROUTING PRIOR TO INSTALLATION.
- ③ INSTALL NEW EMERGENCY LIGHT "EL1" IN PLACE OF DEMO'D ELECTRICAL PANEL.
- ④ REUSE EXISTING ELECTRICAL SERVICE ENTRANCE CONDUIT PENETRATION FOR NEW SERVICE CONDUIT. REFER TO SITE PLAN.
- ⑤ EXISTING FIRE ALARM PANEL TO REMAIN.



A SECOND FLOOR EXISTING ELECTRICAL PANEL
NO SCALE