

Addendum 2 for RFP 950100-01

Project Name: DOC NCCF AHU & Condenser Replacement Unit A&B

RFP #: 950100-01

DAS Project #: 9501.00

Date: 2/9/2026

Bid Due: 2/13/2026 at 2:00pm

Addendum No. 2 Items:

1. Includes attached Pre-Proposal Conference Meeting Minutes & Sign-In Sheet from the 2/4/2026 meeting.
2. Photos attached from Pre-Proposal Conference Site walk.
3. Attached is 1992 Drawings from Living Unit C A/C upgrade which contains a building layout and set up similar to Living Unit A.
 - i. This was requested during the Pre-Proposal Meeting to be provided.
4. Questions Received by DAS Procurement
 - i. Architect firm unable to attend and request a recording of the pre-bid meeting if available.
 1. The meeting was not recorded, meeting minutes will be provided.

END OF ADDENDUM

RFP Pre-Proposal Minutes: Meeting #1

Meeting Date	Feb 4, 2026	Meeting Time	11:45 am - 12:15 am Central Time (US & Canada)
Meeting Location	North Central Correctional Facility	Video Conferencing Link	Join Meeting Link
Overview	Meeting to allow prospective design firms to visit the project site, when possible, and learn more about the scope.		
Notes			
Attachments	RFP950100-01 - NCCF AHU & Condenser Replace Unit A&B.pdf		

Scheduled Attendees

Name	Company	Phone Number	Email	Attendance
Noah Thelen	McGough Construction	P: (515) 639-3853	noah.thelen@mcgough.com	Present
Wade Hammen	North Central Correctional Facility	P: (515) 574-4700	wade.hammen@iowa.gov	Present
Jennie Elliott	State of Iowa - Department of Administrative Services		jennie.elliott@iowa.gov	Present

Introduction

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
1.1	1	Introductions				Open
Description Attendance						
Attachments RFP Meeting Sign In Sheet - AHU Replacement A&B.pdf						
Official Documented Meeting Minutes See attached sign in sheet. In Person: DAS - Jennie E. NCCF - Wade H. McGough - Noah Thelen RCE - Scott Jasper IMEG - Nate Jacques Online: KCL - Joshua TKDA - Tim H and Sandra						

Project Overview

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Scope Review				Open
<p>Description</p> <p>Design services from qualified firms for a project consisting of removal and replacement of the existing AHU and exterior condensing unit located in both Living Unit A and Living Unit B at North Central Correctional Facility. This work consists of modification to the ductwork, plumbing, electrical and site work for new equipment pad in two separate location on campus under the same project scope. Living units will be occupied during construction.</p> <ul style="list-style-type: none"> Identify and provide options on what components can be salvaged or re-used, what components are needed to be replaced. Existing PDF/CAD drawings are not available, but PDF drawings for similar replacements in Living Unit C and Unit D are available. Cordination with State Historic Preservation Office (SHPO) will be needed. During design drawings will need to be submitted to SHPO to confirm they meet design requirements prior to issuing. 						
<p>Official Documented Meeting Minutes</p> <p>Scope was reviewed,</p> <ul style="list-style-type: none"> - NCCF performed a similar project on Unit C, drawings are available for this project and this building is similar to Unit A. These can be made available for the designers to review in the addendum. - Confirmation of how many units are being replaced per building. Living Unit A - 2 (1st Floor and Stairwell) & Living Unit B - 1 (Stairwell) - Photos and Unit sizes have been requested to be included in Addendum. - In Living Unit A, NCCF would like to salvage one of the newer condensing units that was replaced previously. - It was discussed that SHPO will not have much involvement in this project but DAS will still submit the project. The building are not on the registry and it is not planned to make any modifications to the "architecture" as this is an equipment replacement. - Basis of Design can be Dakin but need to allow approved equals. NCCF is currently using Semins controls, but working with Baker Electric and in process of switching over. - A hazardous materials survey has not been performed yet, DAS will coordinate this during design. 						

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
2.2	1	Schedule Review				Open
<p>Description</p> <ul style="list-style-type: none"> Questions Due to construction.procurement@iowa.gov: 2/6/2026 by 2:00pm Addendum Issued: 2/9/2026 pending questions Proposals Due: 2/13/2026 by 2:00pm Selection of Designer/Issue NOI: Week of 2/16/2026 Execution of 803 Contract: Week of 2/16/2026 <ul style="list-style-type: none"> Tentative Design Kickoff Meeting: Week of February 23rd, 2026 100% DD: Design professional to propose in RFP Schedule 50% CD and budget: Design professional to propose in RFP Schedule 95% CD: Design professional to propose in RFP Schedule 100% CD and budget: April 29th, 2026 (2 Months) Contractor Bidding: May, 2026 Execution of Contractor's Contract(s): June, 2026 Submittals, Procurement and Construction: June, 2026 to October, 2026 Closeout: November, 2026 to December, 2026 						
<p>Official Documented Meeting Minutes</p> <ul style="list-style-type: none"> - It was questioned if one of the DD/CD meetings (50% CD) review dates could be removed due to meeting the deadline with 100% completion. This many meetings and deliverables might be difficult to meet this deadline. It was discussed that the design firm could show this option in the Proposal when submitting schedule. - 10 Site visits are required in the RFP, it was discussed that any unused visits will be credited back to the project. Teams meetings will be used as needed. 						

RFP Overview

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	RFP Requirements Review				Open
<p>Description</p> <ul style="list-style-type: none"> • All questions to be directed to construction.procurement@iowa.gov • DAS uses Procore online project management system for all projects, at no cost to the designer. • DAS uses a modified ConsensusDocs 803 Form of Agreement • DAS requires a project-specific Certificate of Insurance and specifies a Professional Liability policy of \$2,000,000 with a deductible of \$25,000 <ul style="list-style-type: none"> ◦ Must note in proposal if deductible is different and provide a letter of financial stability from bank ◦ Must provide COI prior to contract execution • Ensure the following items are included in the proposal: <ul style="list-style-type: none"> ◦ Project-specific schedule ◦ Resumes for all technical staff that will be assigned to the project ◦ Anticipated hours and rates for each person on the design team ◦ Lump sum broken down by schedule of values 						

Conclusion

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Designer Questions				Open
<p>Description Any questions?</p>						
<p>Official Documented Meeting Minutes Site Visit was performed to review the Unit A and B. Photos will be provided.</p>						

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting. Please contact State of Iowa - Department of Administrative Services if there are any discrepancies or questions with the content of these minutes.

UNIT B



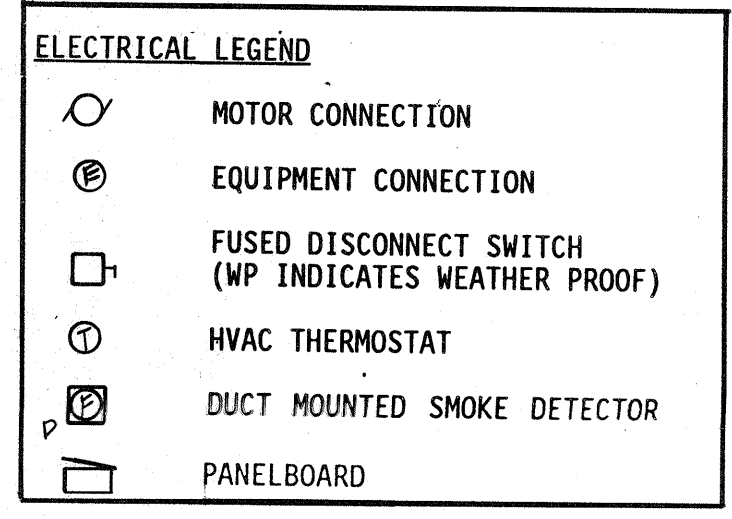
**AIR CONDITIONING AND
ELECTRICAL DISTRIBUTION UPGRADE**

**NORTH CENTRAL
CORRECTIONAL FACILITY**

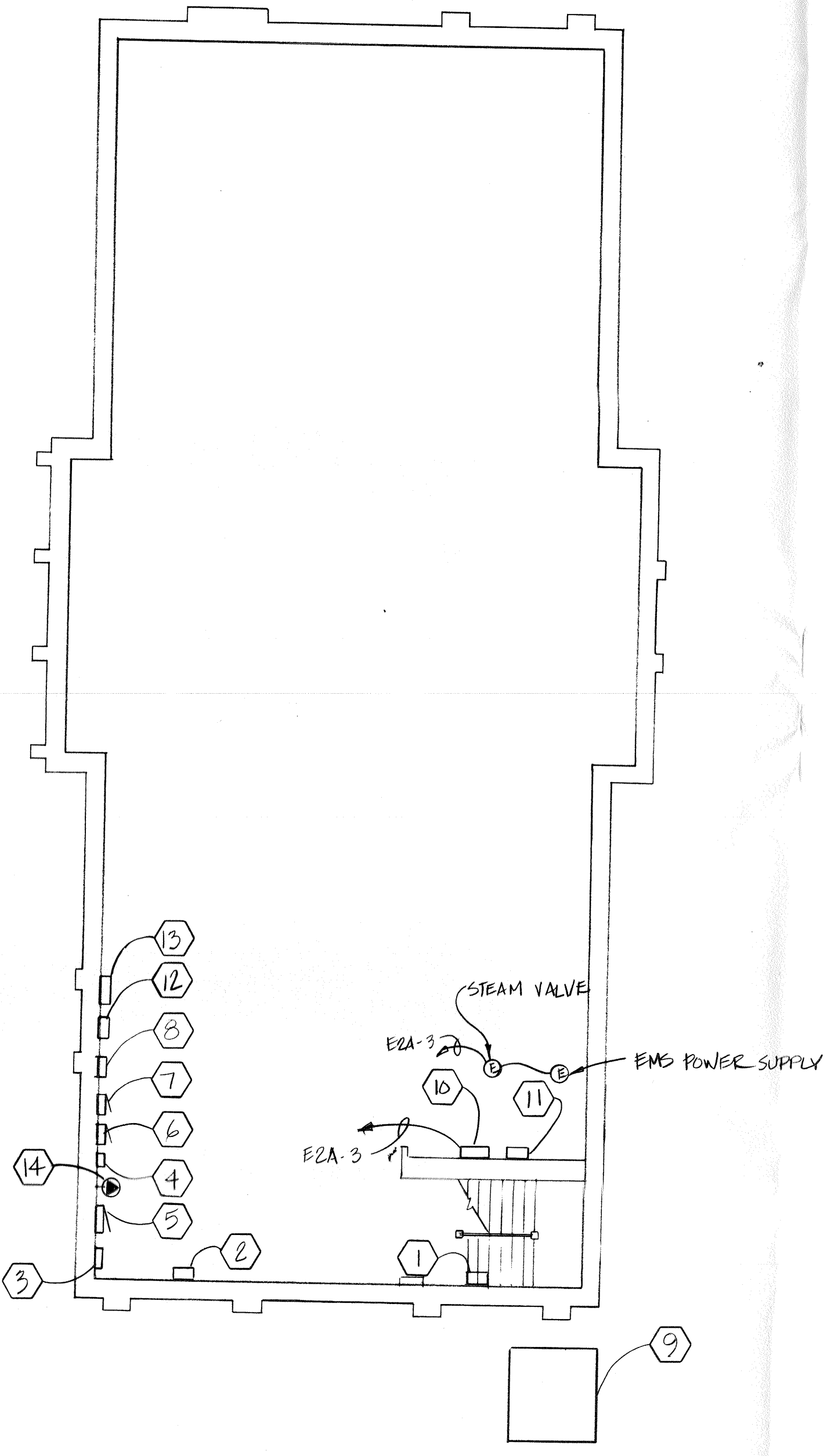
HLM 88067.36
24 JULY 1992

HANSEN LIND MEYER INC.
DRAWER 310
PLAZA CENTRE ONE
IOWA CITY, IOWA 52244
319-354-4700

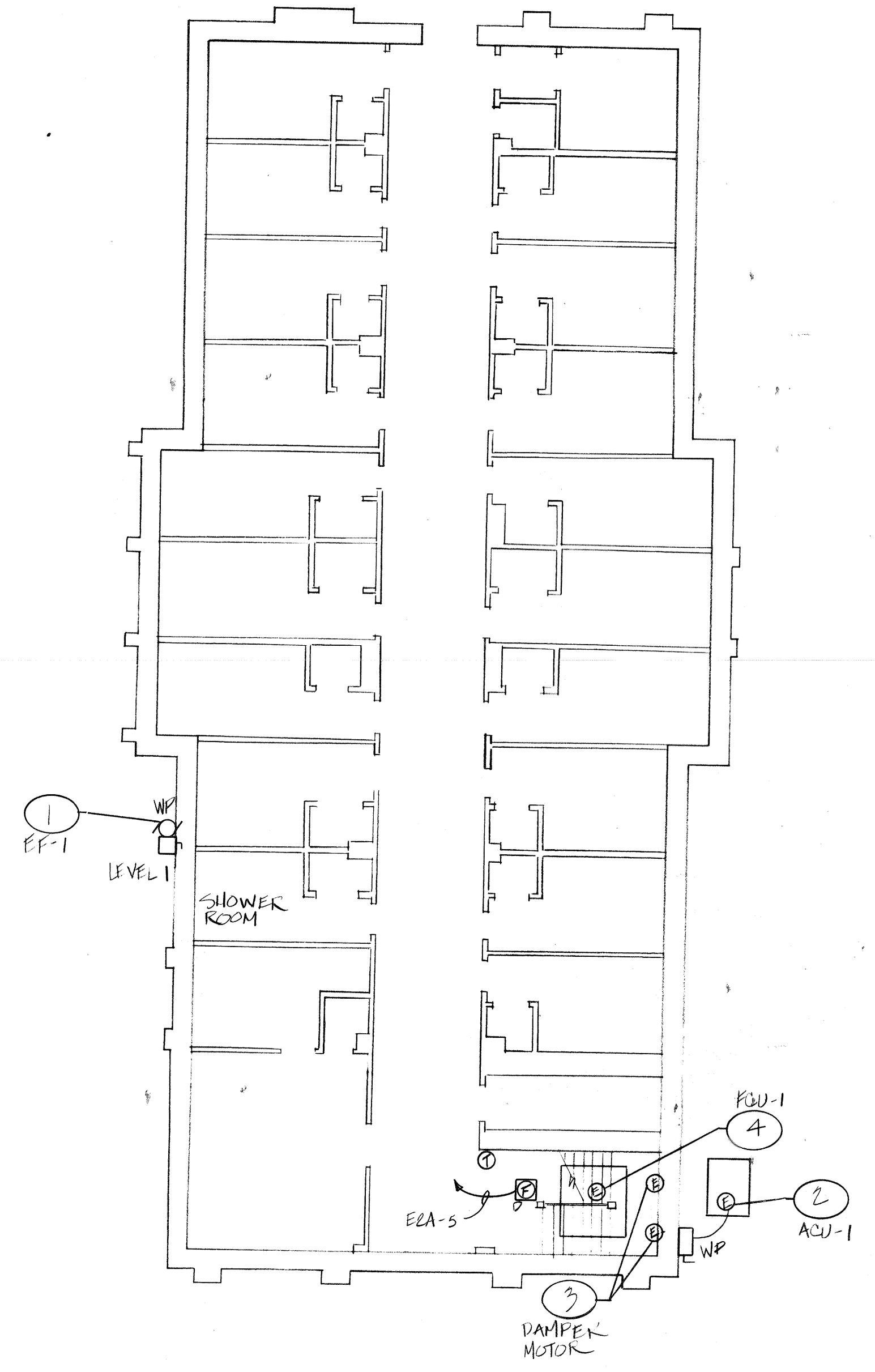
- COTTAGE 1 - REFERENCED ELECTRICAL NOTES:**
- EXISTING SERVICE ENTRANCE PULL BOX AND CONDUIT (WITHIN BUILDING) TO BE REMOVED.
 - EXISTING JUNCTION BOX WITH DISCONNECTS/CONDUIT BELOW TO BE REMOVED.
 - EXISTING JUNCTION BOX TO REMAIN.
 - EXISTING FUSED DISCONNECT FOR PANEL LC-1 TO BE REMOVED. EXTEND FEEDERS FOR PANEL LC1 TO NEW PANEL NC1.
 - NEW PANEL NC1.
 - EXISTING PANEL LC1 TO BE RE-FED FROM NEW PANEL NC1.
 - EXISTING PANEL LC2 TO BE RE-FED FROM NEW PANEL NC1. RELOCATE BRANCH CIRCUIT FOR EXISTING CONDENSING UNIT TO PANEL AC1. RELOCATE BRANCH CIRCUIT FOR FAN COIL UNIT TO PANEL E2A (PROVIDE ONE (1) 30A, 2P CIRCUIT BREAKER).
 - EXISTING SERVICE TO SUPERINTENDENTS HOUSE. EXTEND FEEDERS TO NEW PANEL NC1.
 - NEW PAD MOUNTED TRANSFORMER ON GRADE.
 - HVAC UNIT CONTROLLER AND TRANSFORMER WITH ADJACENT TOGGLE SWITCH. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
 - MANUAL POTENTIOMETER FOR HVAC DAMPER CONTROL. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
 - EXISTING PANEL E2A.
 - NEW PANEL AC1.
 - NEW WELDING RECEPTACLE. NEMA 10-50R TO PANEL NC1-14,16 WITH 2 #8 + 1 #10 GRD, 3/4".



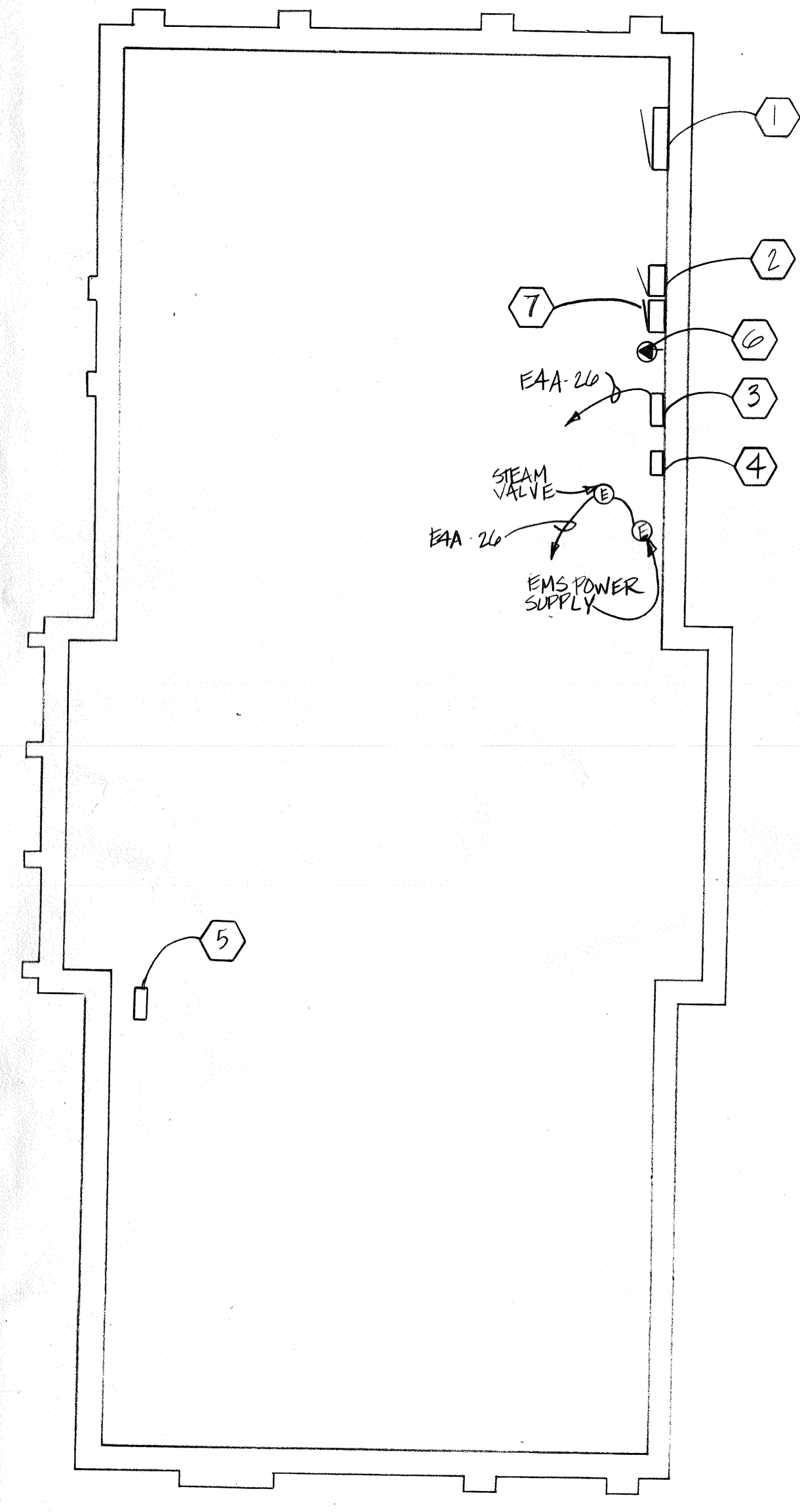
- COTTAGE 2 - REFERENCED ELECTRICAL NOTES:**
- EXISTING PANEL NDPA.
 - NEW HVAC PANEL AC2.
 - HVAC UNIT CONTROLLER AND TRANSFORMER WITH ADJACENT TOGGLE SWITCH. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
 - MANUAL POTENTIOMETER FOR HVAC DAMPER CONTROL. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
 - EXISTING PANEL E4A LOCATED ON LEVEL 1.
 - NEW WELDING RECEPTACLE. NEMA 10-50R. CONNECT TO PANEL NDPA-20,22 WITH 2 #8 + 1 #10 GRD, 3/4". PROVIDE ONE (1)-50A, 2P CIRCUIT BREAKER IN NDPA.
 - EXISTING PANEL 2C. RELOCATE BRANCH CIRCUIT FOR EXISTING CONDENSING UNIT TO PANEL AC2. RELOCATE BRANCH CIRCUIT FOR EXISTING FAN COIL UNIT TO PANEL E4A.



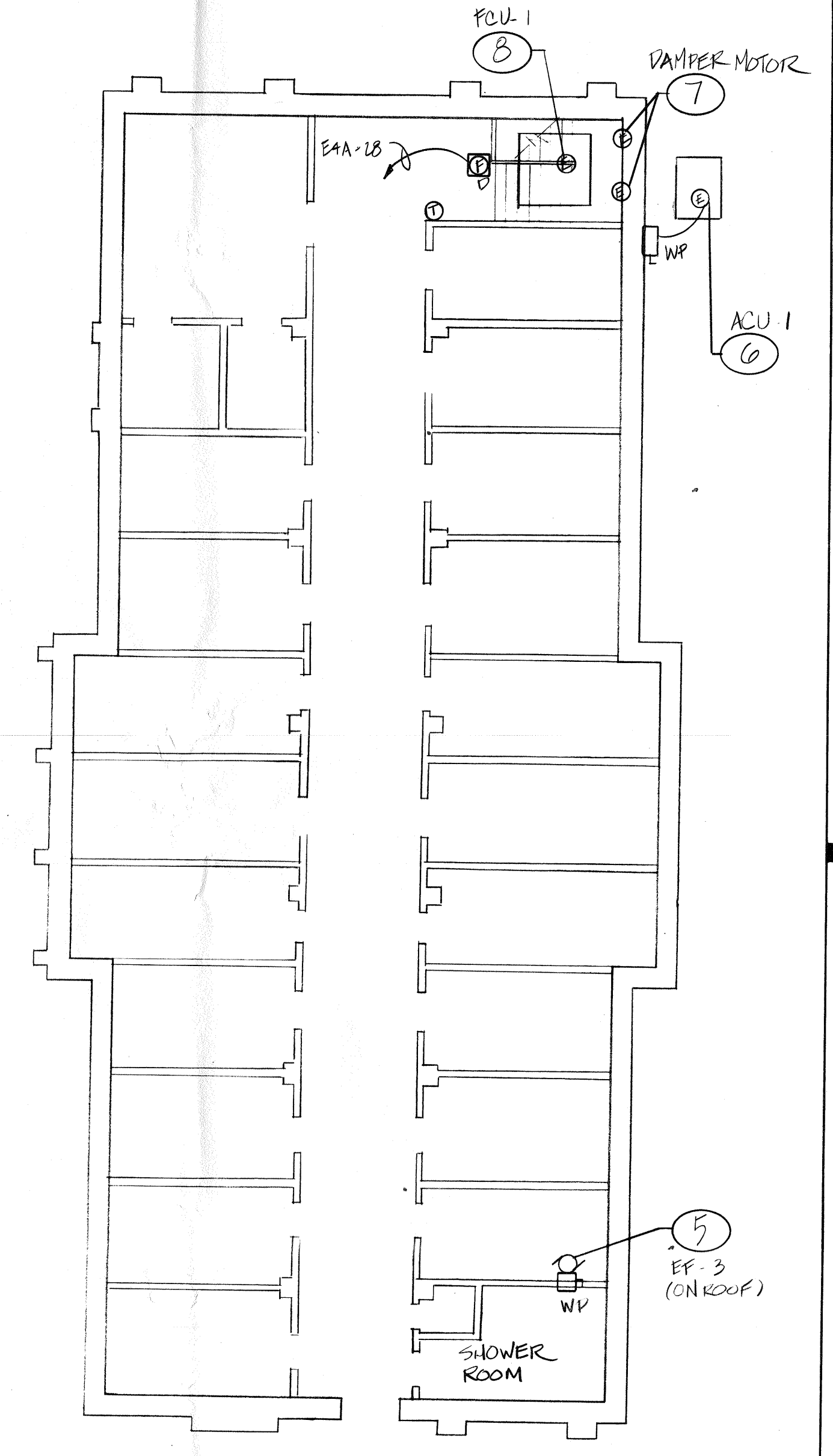
BASEMENT LEVEL - COTTAGE #1
SCALE: 1/8" = 1'-0"



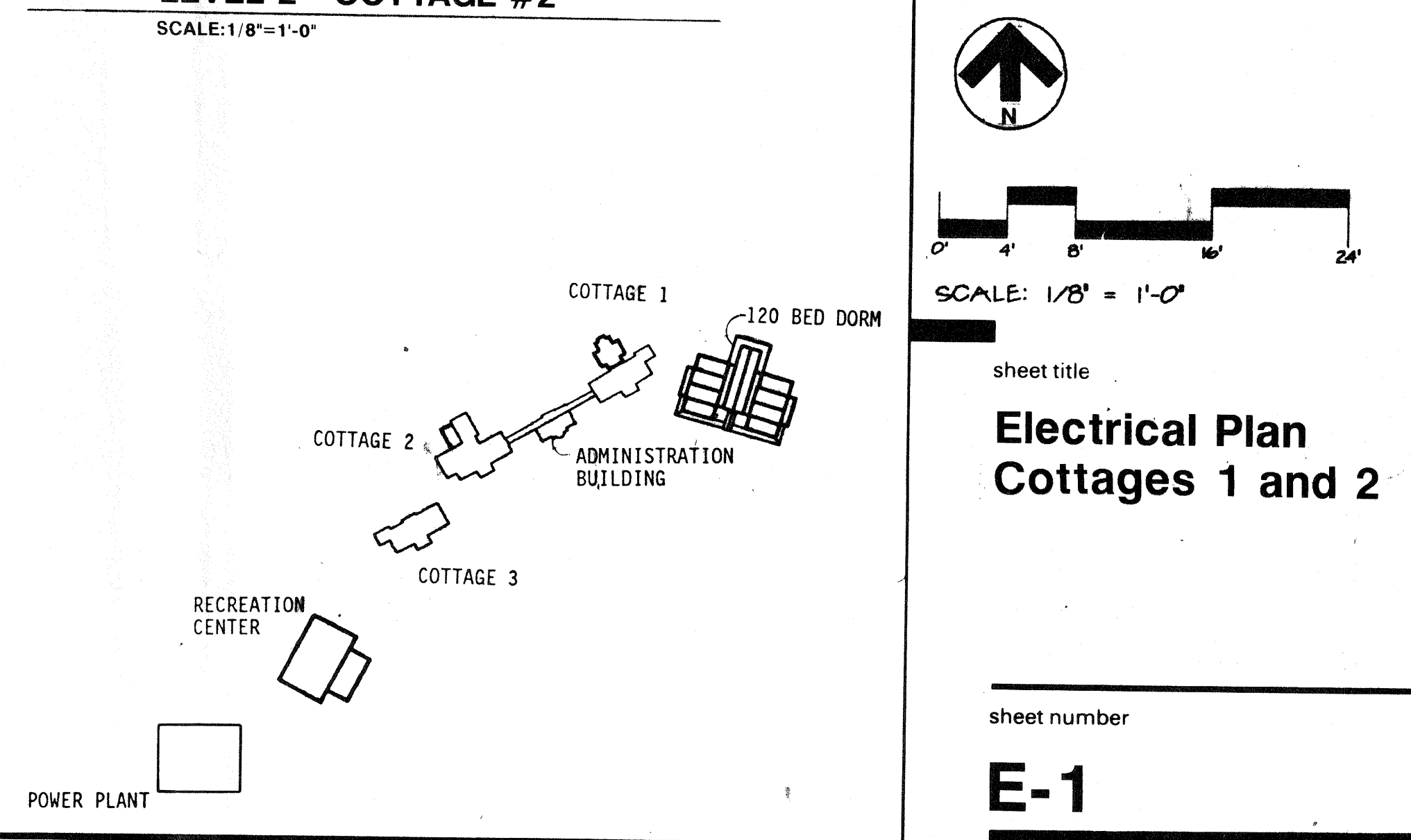
LEVEL 2 - COTTAGE #1
SCALE: 1/8" = 1'-0"



BASEMENT LEVEL - COTTAGE #2
SCALE: 1/8" = 1'-0"



LEVEL 2 - COTTAGE #2
SCALE: 1/8" = 1'-0"



HLM
Hansen Lind Meyer, Inc.
Drawer 310
Plaza Centre One
Iowa City, Iowa 52244
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Iowa City, Iowa
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Orlando, Florida

project name/owner's name
**Ia. Dept. of
General Services and
Ia. Dept. of
Corrections**

**North Central Correctional
Facility - Expansion**

Rockwell City, Iowa

project number
88067.36

owner's project number

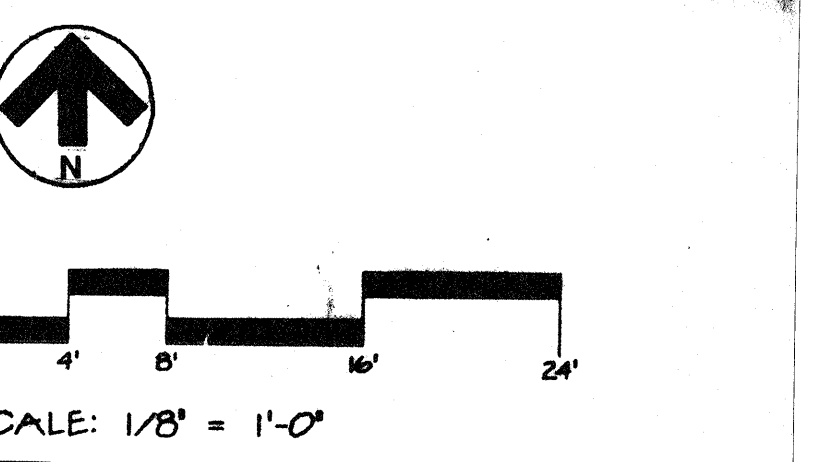
consultants/construction managers

seal/signature

issued for
**CONSTRUCTION
DOCUMENTS**

item	date
FINAL REVIEW	3-20-92
CONSTRUCTION DOCUMENTS	3-21-92
CONSTRUCTION	7-24-92

drawn by *[Signature]*
checked by *[Signature]*

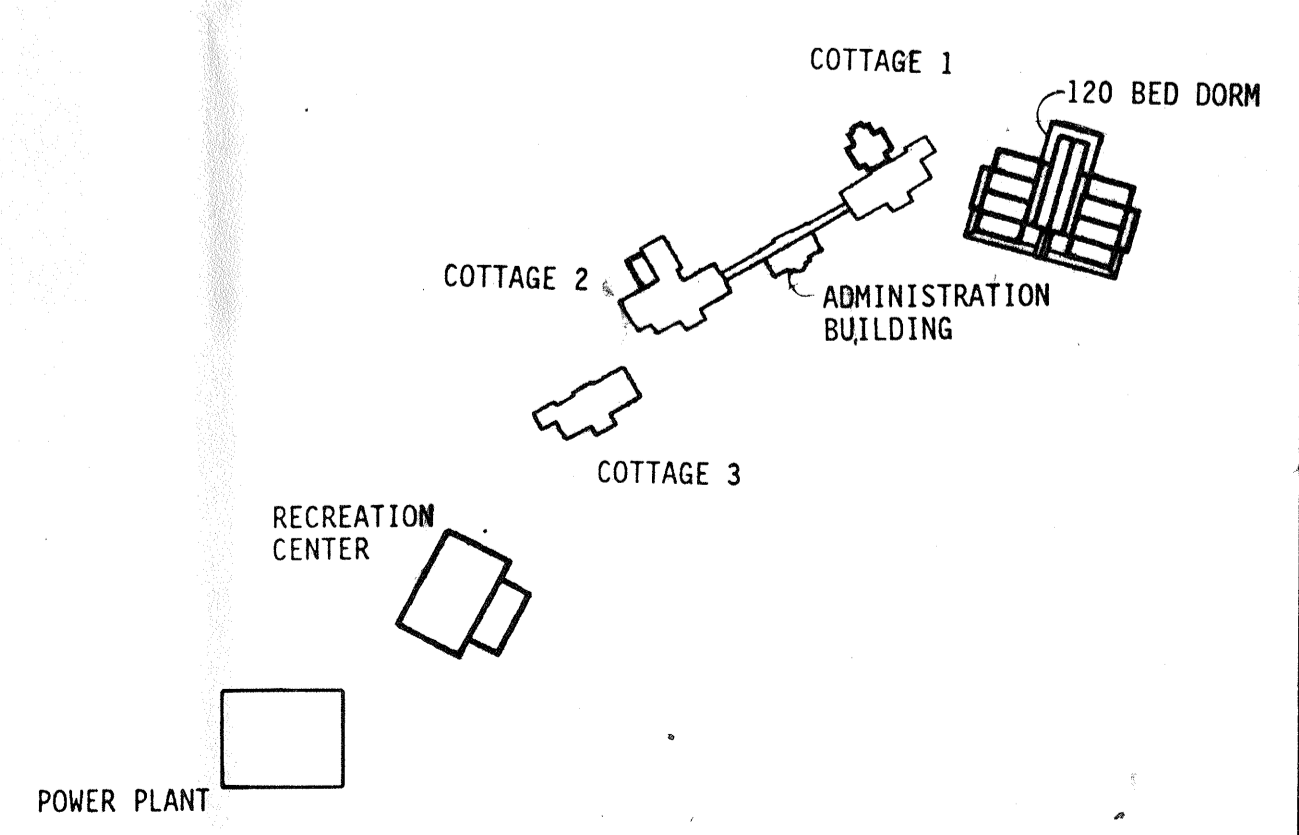
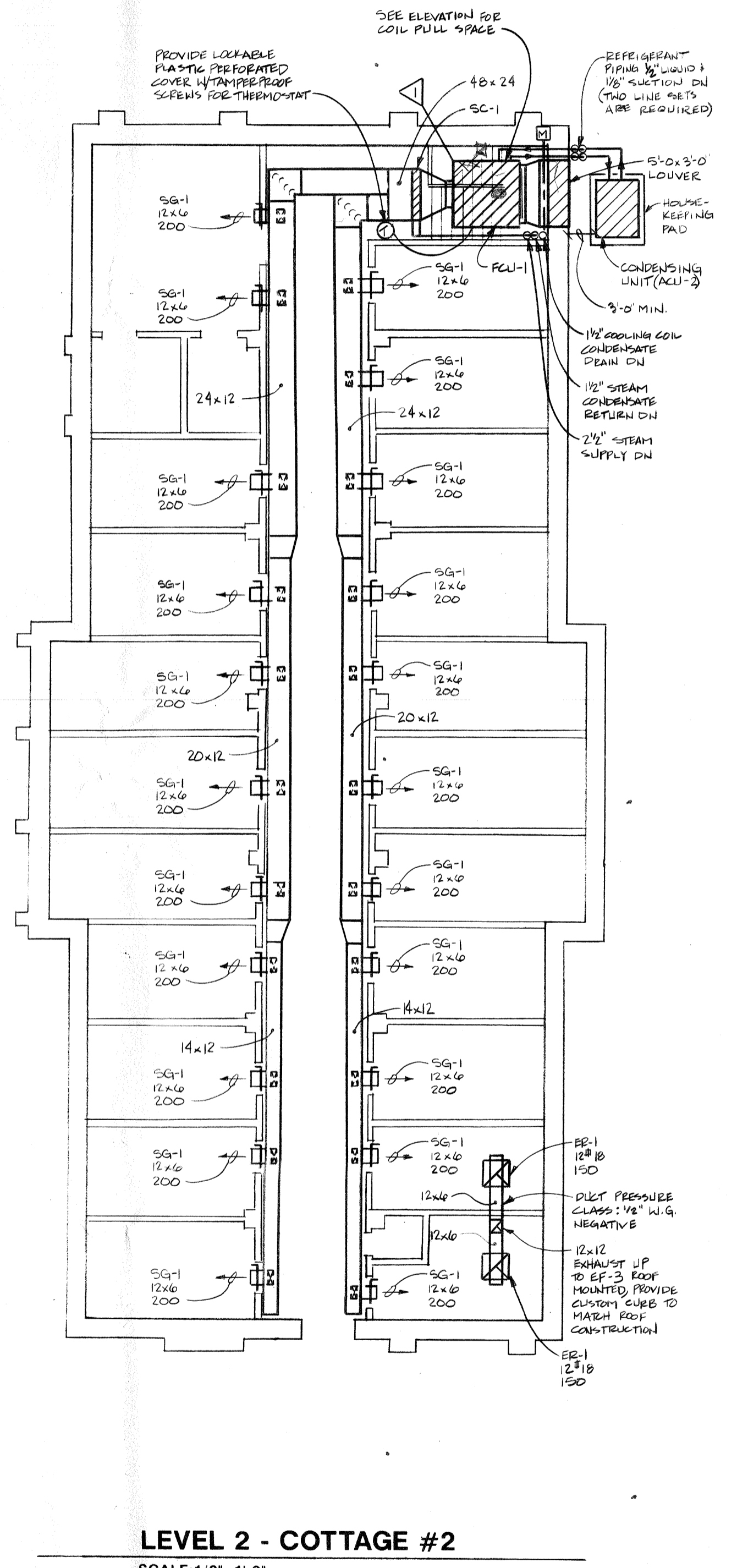
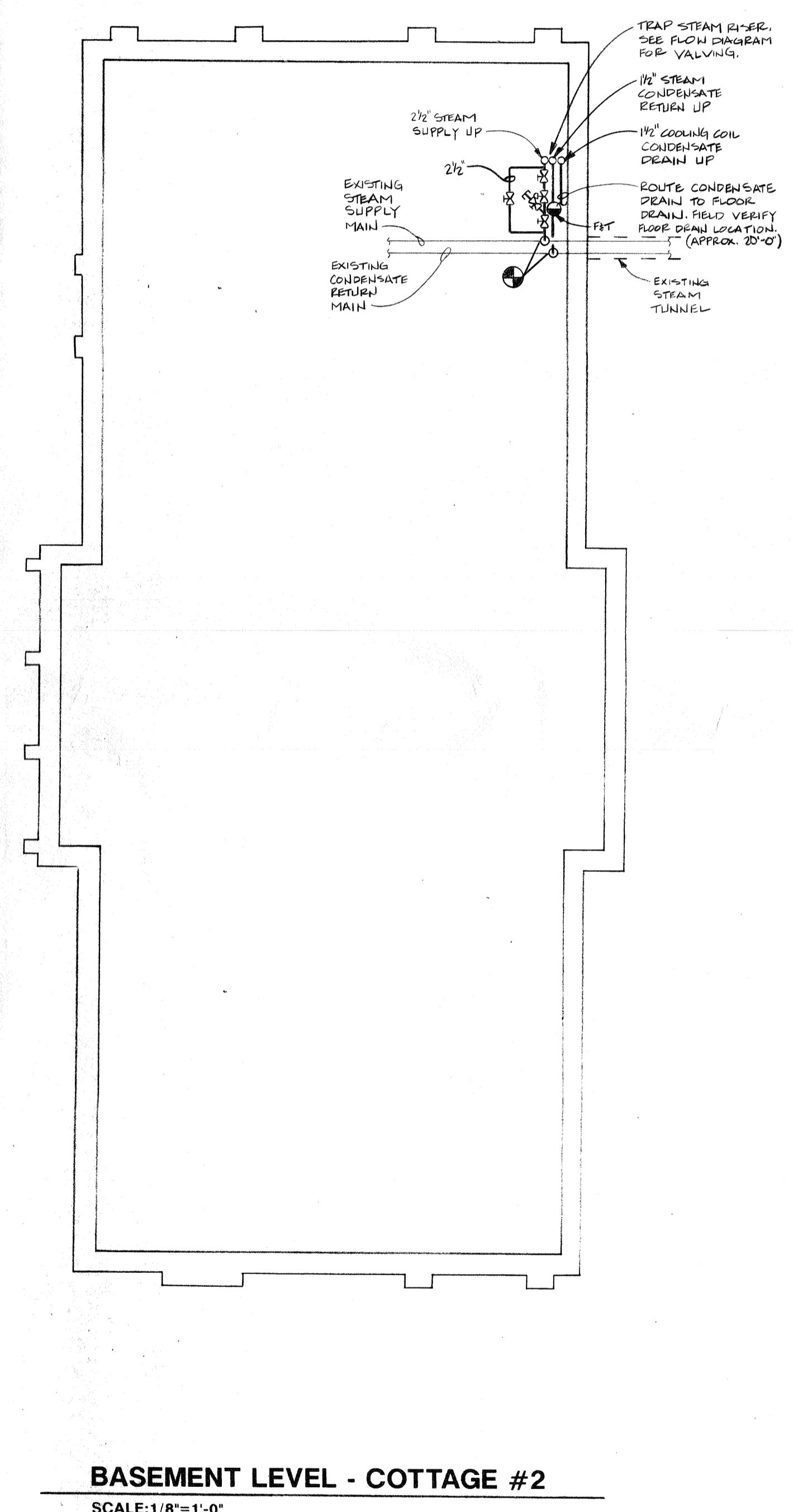
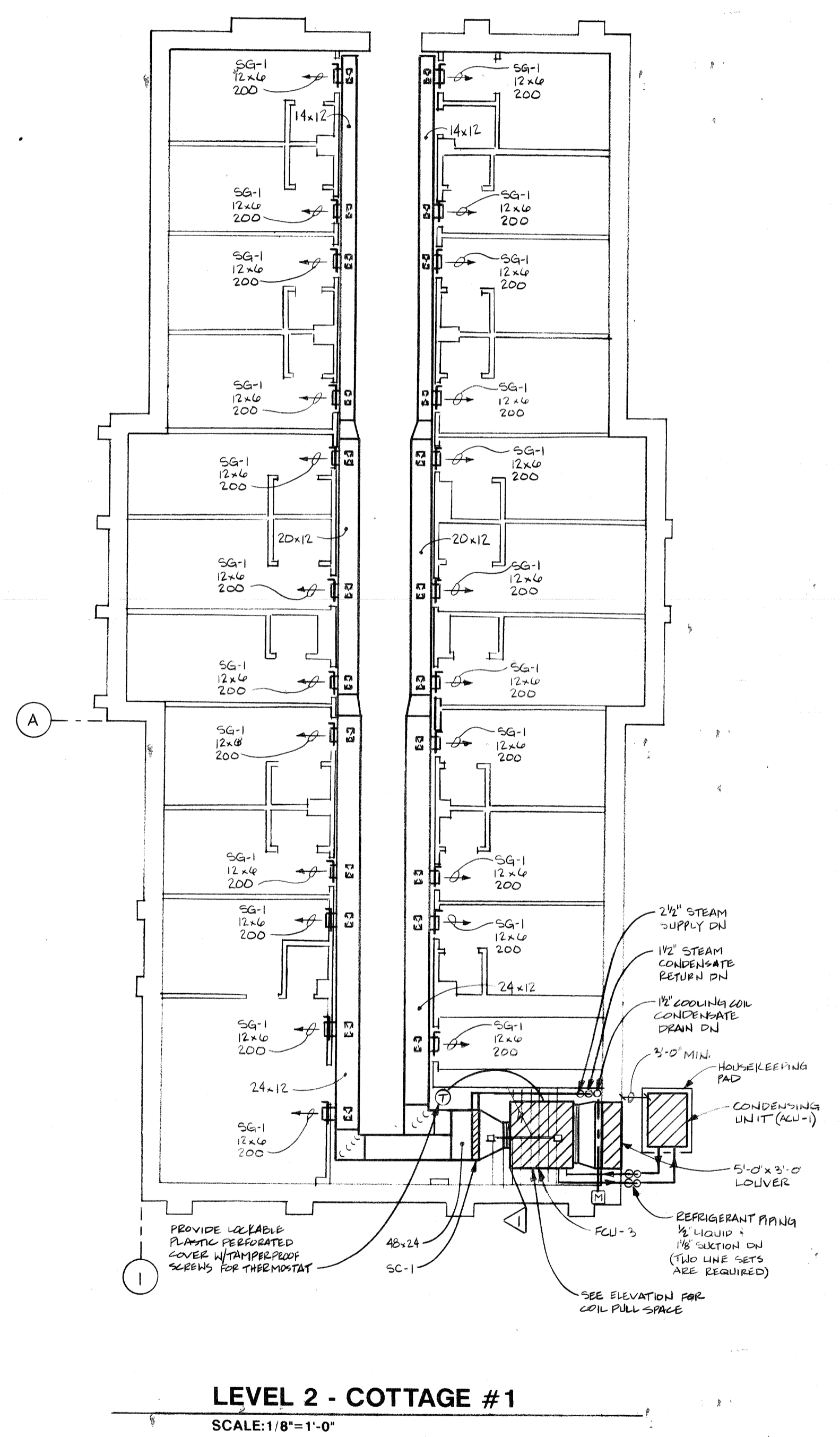
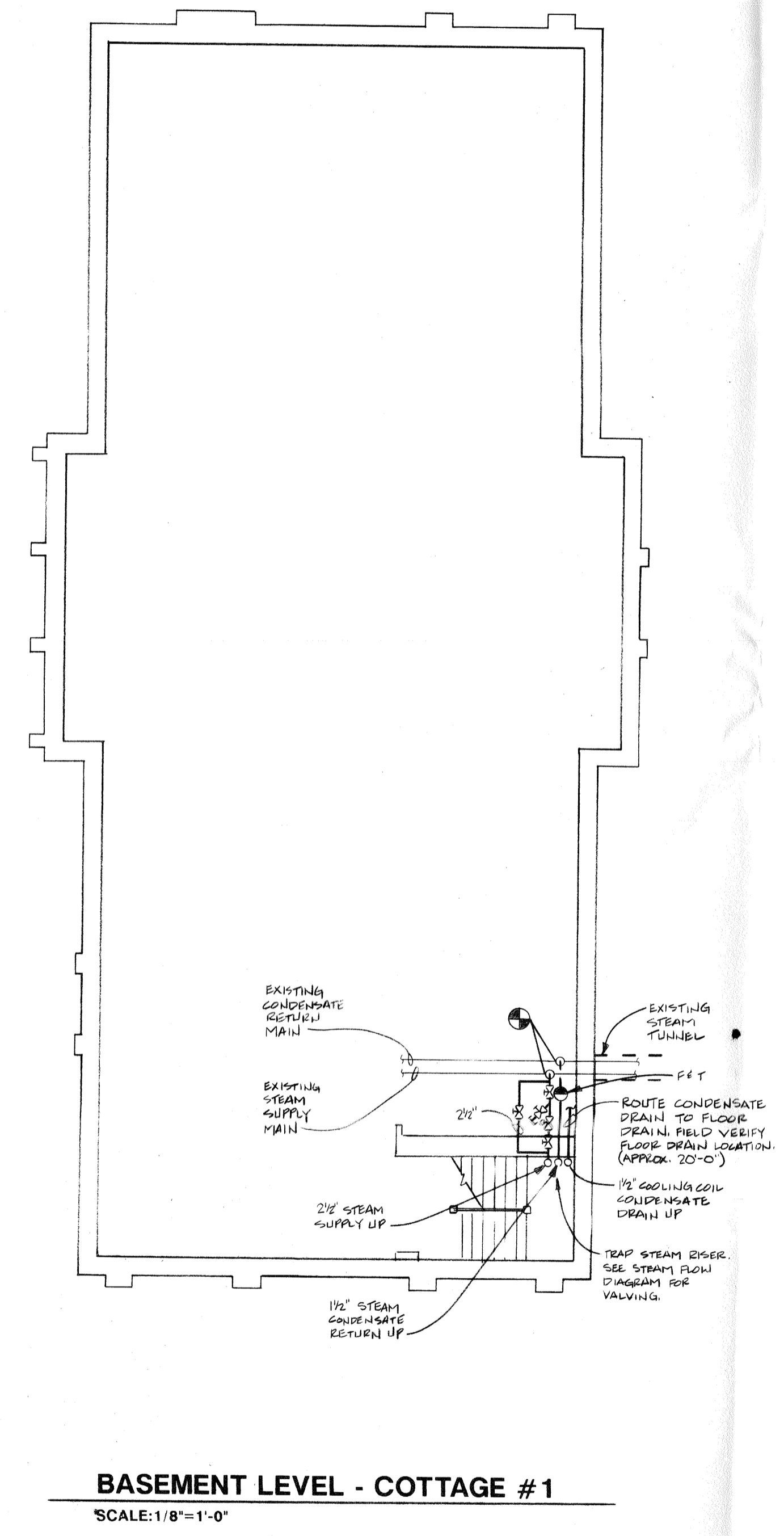
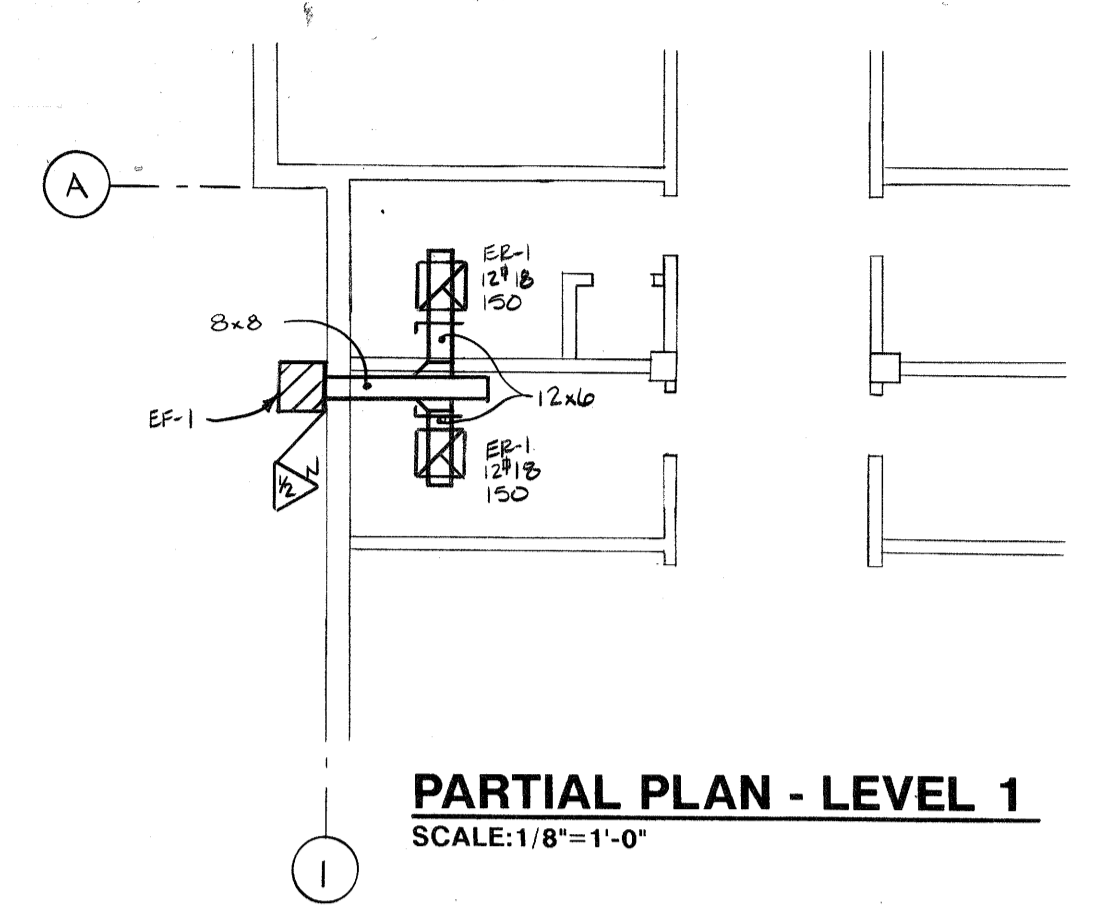


sheet title
**Electrical Plan
Cottages 1 and 2**

sheet number
E-1

- GENERAL PIPING NOTES:**
1. VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
 2. PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE PIPING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE WITH OTHER TRADES AS REQUIRED. PIPING SHALL BE INSTALLED WITH ADEQUATE SLOPE AS REQUIRED FOR EACH PARTICULAR SYSTEM.
 3. CONNECTIONS TO, AND SHUTDOWNS OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNER'S OPERATION AND DOWNTIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES TO EXISTING SERVICES.
 4. WALL THERMOSTATS SHALL BE 5'-0" ABOVE FLOOR IN CORRIDORS UNLESS NOTED OTHERWISE.
 5. FOR EXACT PIPING CONNECTIONS TO TERMINAL UNITS, INCLUDING VALVES, TRAPS AND APPURTENANCES, SEE PIPING DETAIL DRAWINGS.
 6. PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS WHERE CUTTING IS REQUIRED.

- GENERAL HVAC NOTES:**
1. ALL DUCTWORK IS SHOWN IN SCHEMATIC FORM. DUCT RISES AND DROPS ARE NOT SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH TRADES. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.
 2. DIFFUSERS, GRILLES AND REGISTER LOCATIONS SHALL BE AS SHOWN.
 3. DIFFUSERS WITH NO-THROW INDICATING ARROWS SHALL BE 4'-MAY.
 4. DIFFUSER, GRILLE AND REGISTER NOMENCLATURE SHALL BE AS FOLLOWS:
 COA - TYPE
 24" 5" ROUND NECK, 24" SQUARE MODULE
 100 - CFM
 5. PROVIDE RIGID METAL DUCT, WITH NO EXCEPTION, WHERE FIRE WALLS AND/OR SMOKE WALLS ARE PENETRATED.
 6. MANUAL VOLUME DAMPERS SHALL BE PROVIDED ON ALL RETURN, SUPPLY AND EXHAUST BRANCH DUCTS.
 7. VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
 8. DUCTWORK IS SHOWN IN SCHEMATIC FORM FOR CLARITY. EXACT LOCATION OF THE DUCTWORK MAY VARY SOME ACCORDING TO THE REQUIRED SPACE NEEDED.
 9. CONNECTIONS TO, AND SHUTDOWNS OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNER'S OPERATION AND DOWNTIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES TO EXISTING SERVICES.
 10. COILS SHALL BE PLACED AS TO ALLOW ADEQUATE ACCESS FOR REPAIR.



FAN COIL UNIT SCHEDULE															
PLAN MARK	FAN STATIC PRES. INCHES	MAX. BELLOWS RPM	MOTOR HP	VOLT	PH.	TYPE OF UNIT	MANUFACTURER/MODEL #	COOLING CAP. MBH			ENTERING AIR TEMP. °F	LEAVING AIR TEMP. °F	AIR FLOW (CFM)	REMARKS	
								TOTAL	SENSIBLE	LATENT					
FCU-1	4400	2.2	1150	3	208	3	DRAM-THRU TRANE TWE120B3	395	123	95.4	81.0B/67.0B	1600/5700	R-22	0.56	COITAGE #2
FCU-2	3600	2.2	1101	3	208	3	DRAM-THRU TRANE TWE120B3	325	121	87.2	81.0B/67.0B	1600/5700	R-22	0.47	EDUCATION BLDG.
FCU-3	4600	2.2	1154	3	208	3	DRAM-THRU TRANE TWE120B3	415	123.5	103.2	81.0B/67.0B	1600/5700	R-22	0.60	COITAGE #1 & #3

STEAM REHEAT COIL SCHEDULE													
PLAN MARK	CFM	FACE VELOCITY FPM	AIR PD INCHES	EAT °F	LAT °F	MBH	LBS/HR	PSI	MANUFACTURER	DIMENSIONS	STEAM		
											TEMP. °F	TEMP. °F	TEMP. °F
SC-1	4400	550	0.20	-7	80	415.1	430	2	TRANE	48x24			
SC-2	4600	575	0.22	-7	80	434.0	450	2	TRANE	48x24			

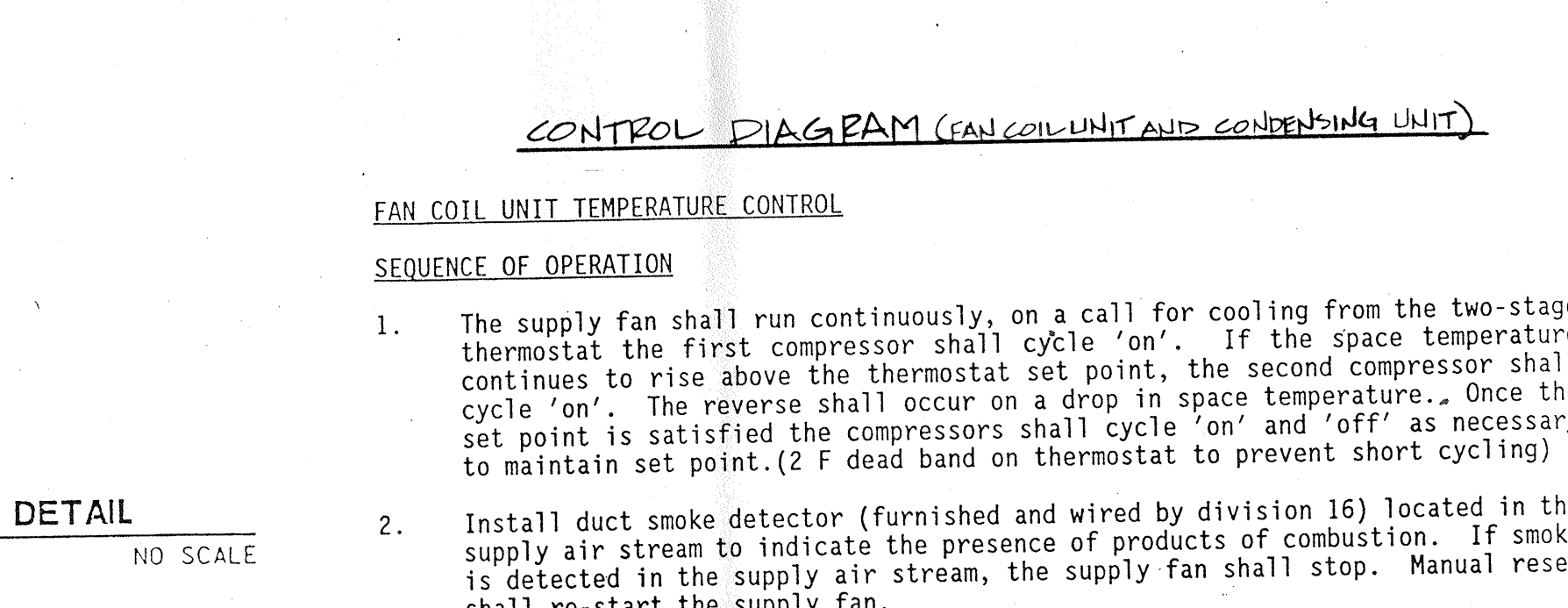
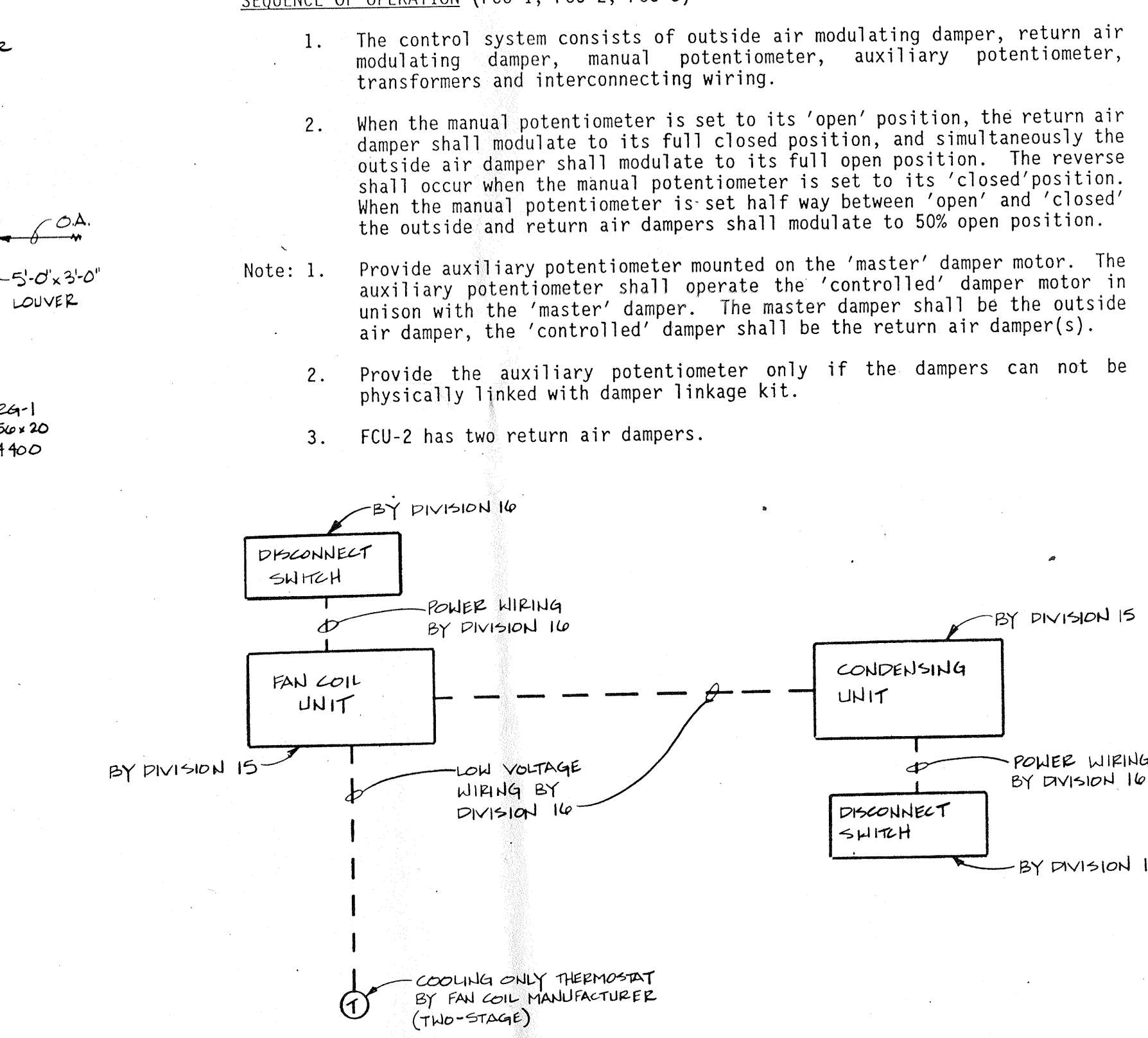
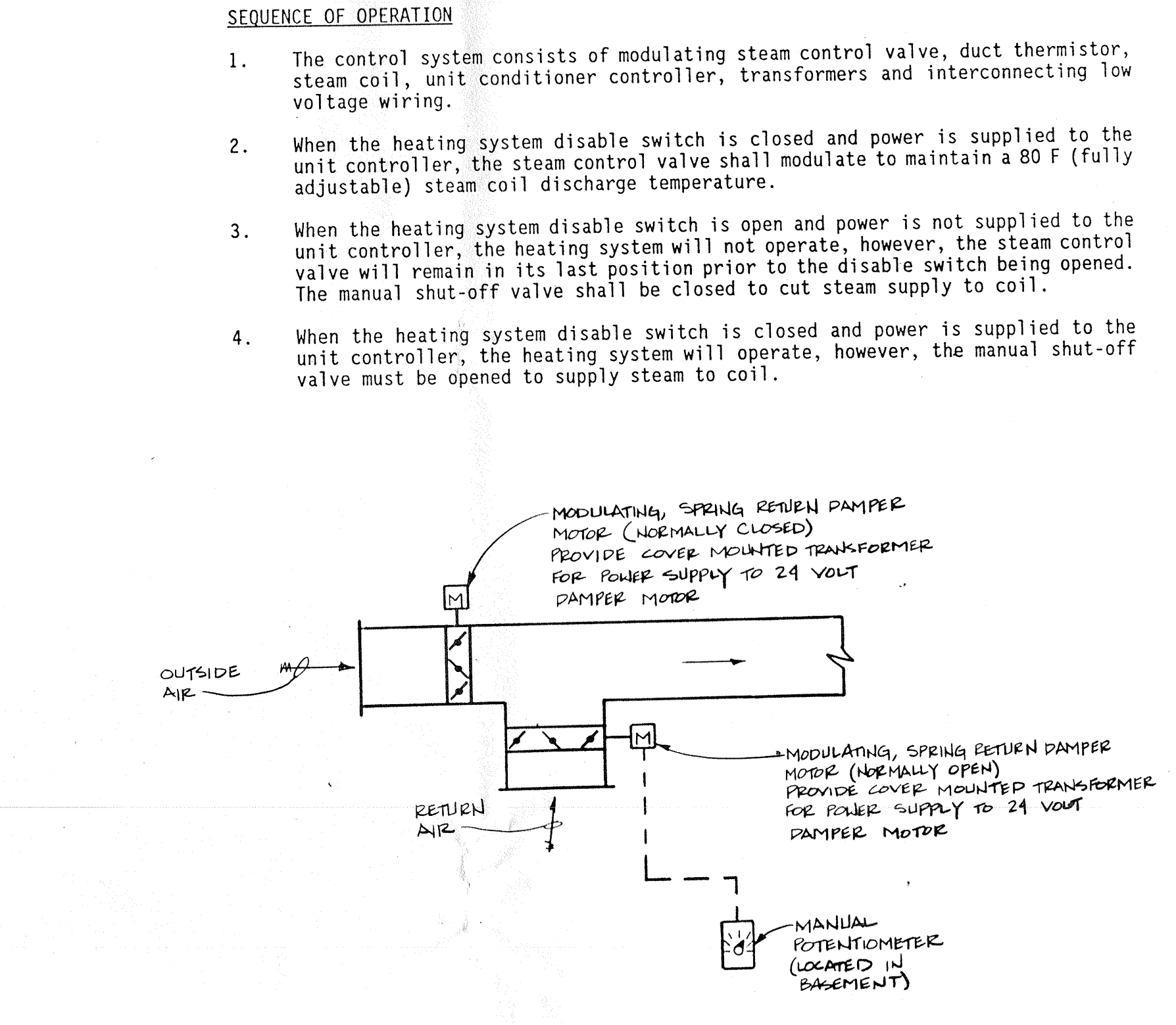
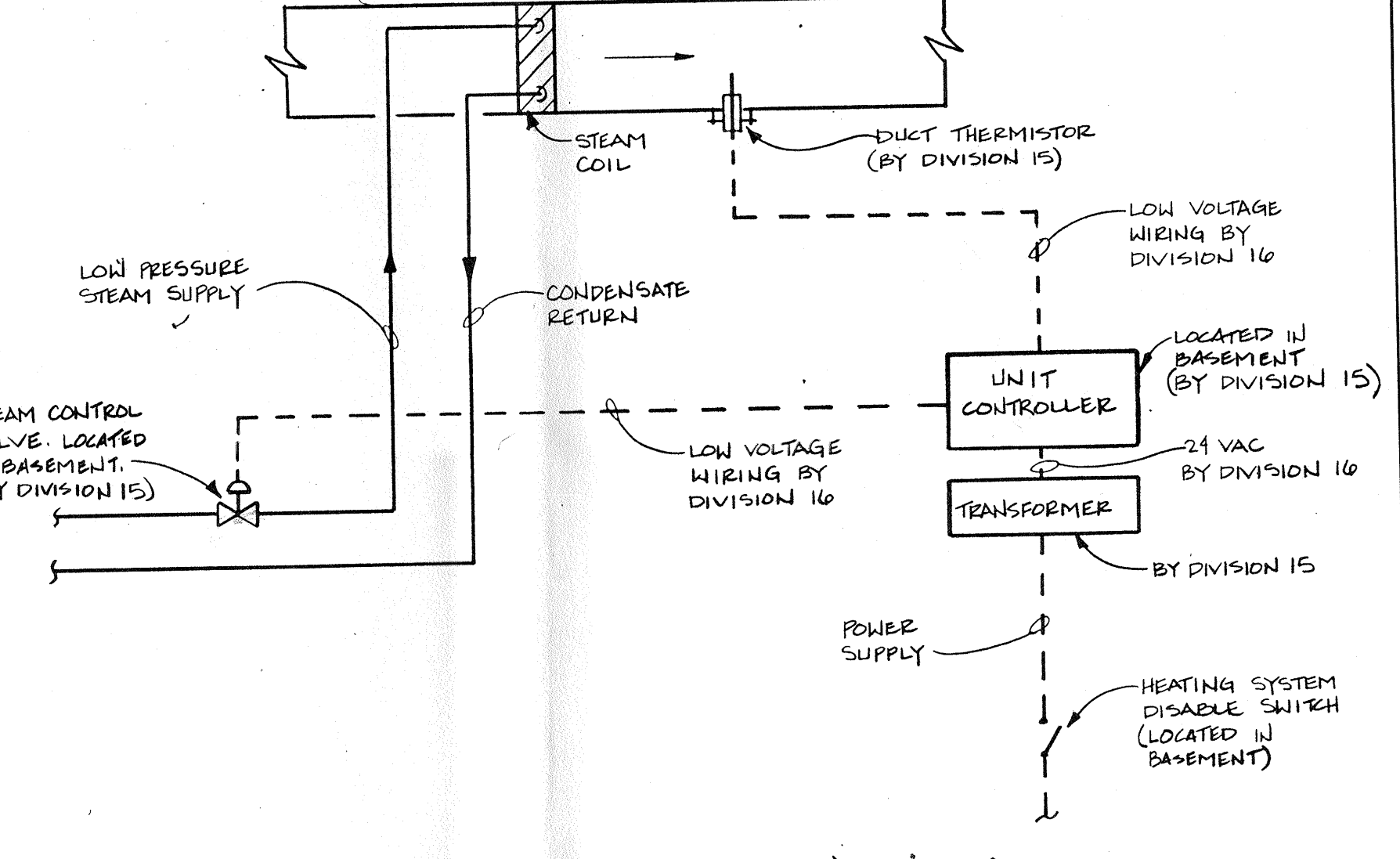
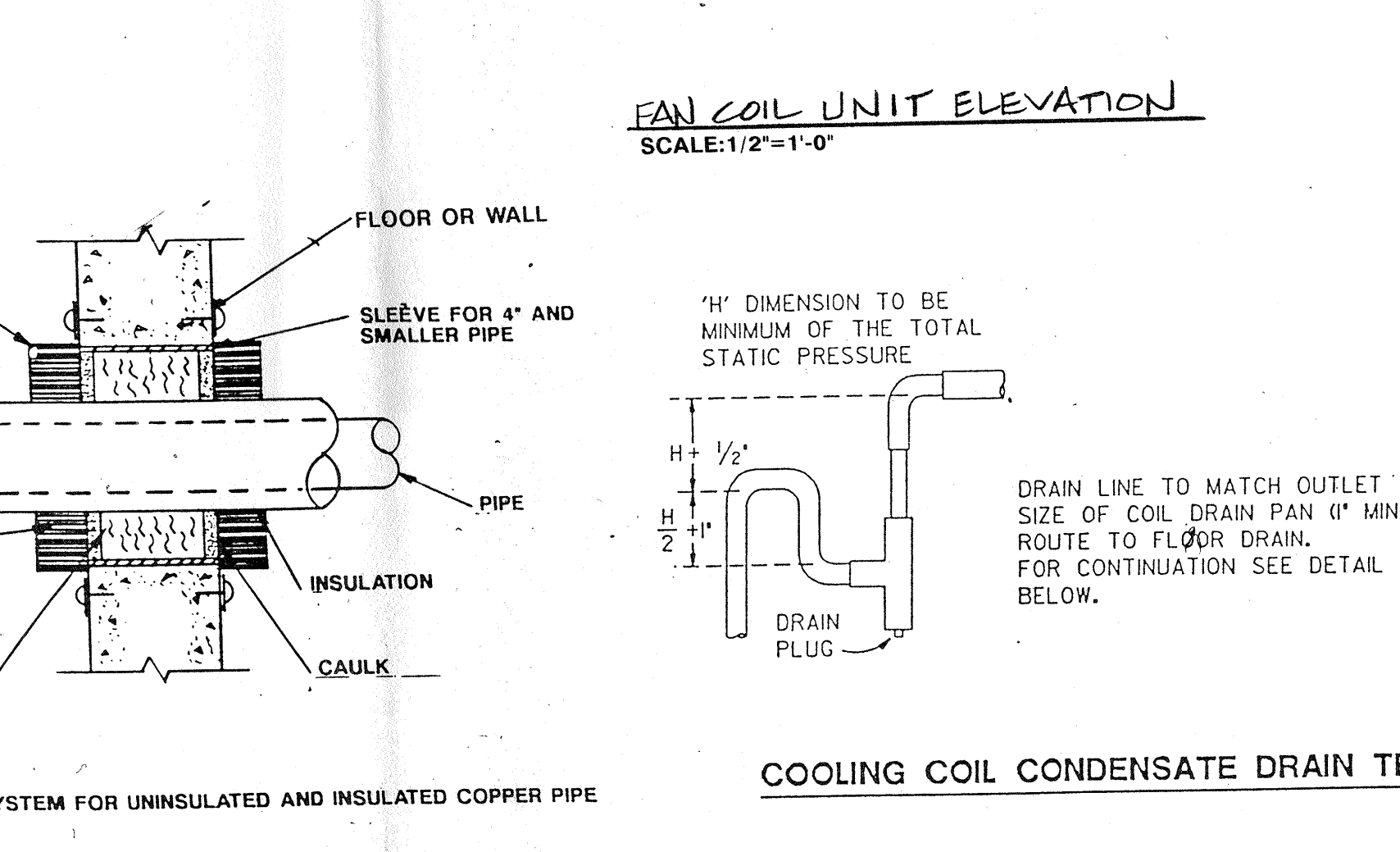
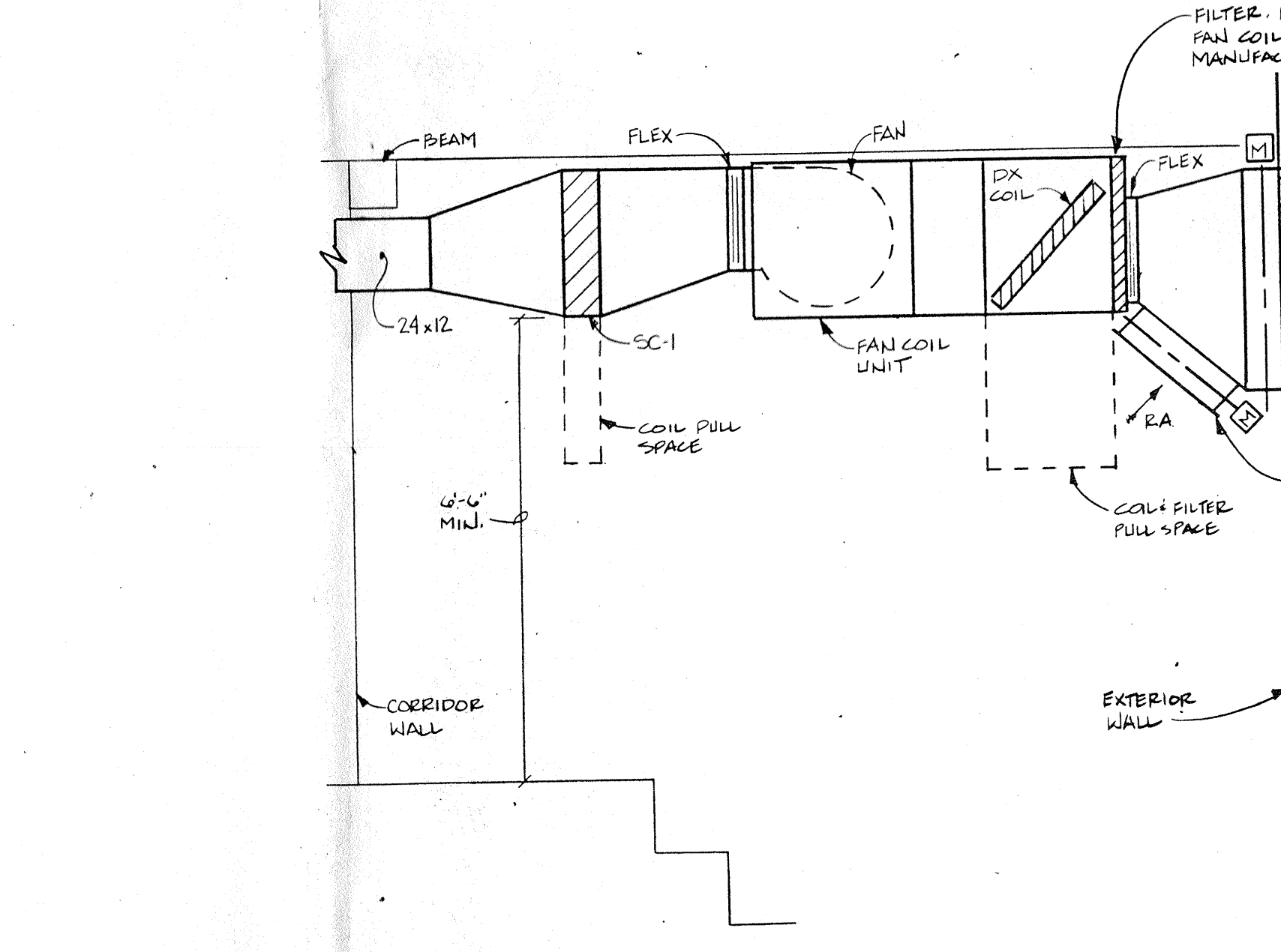
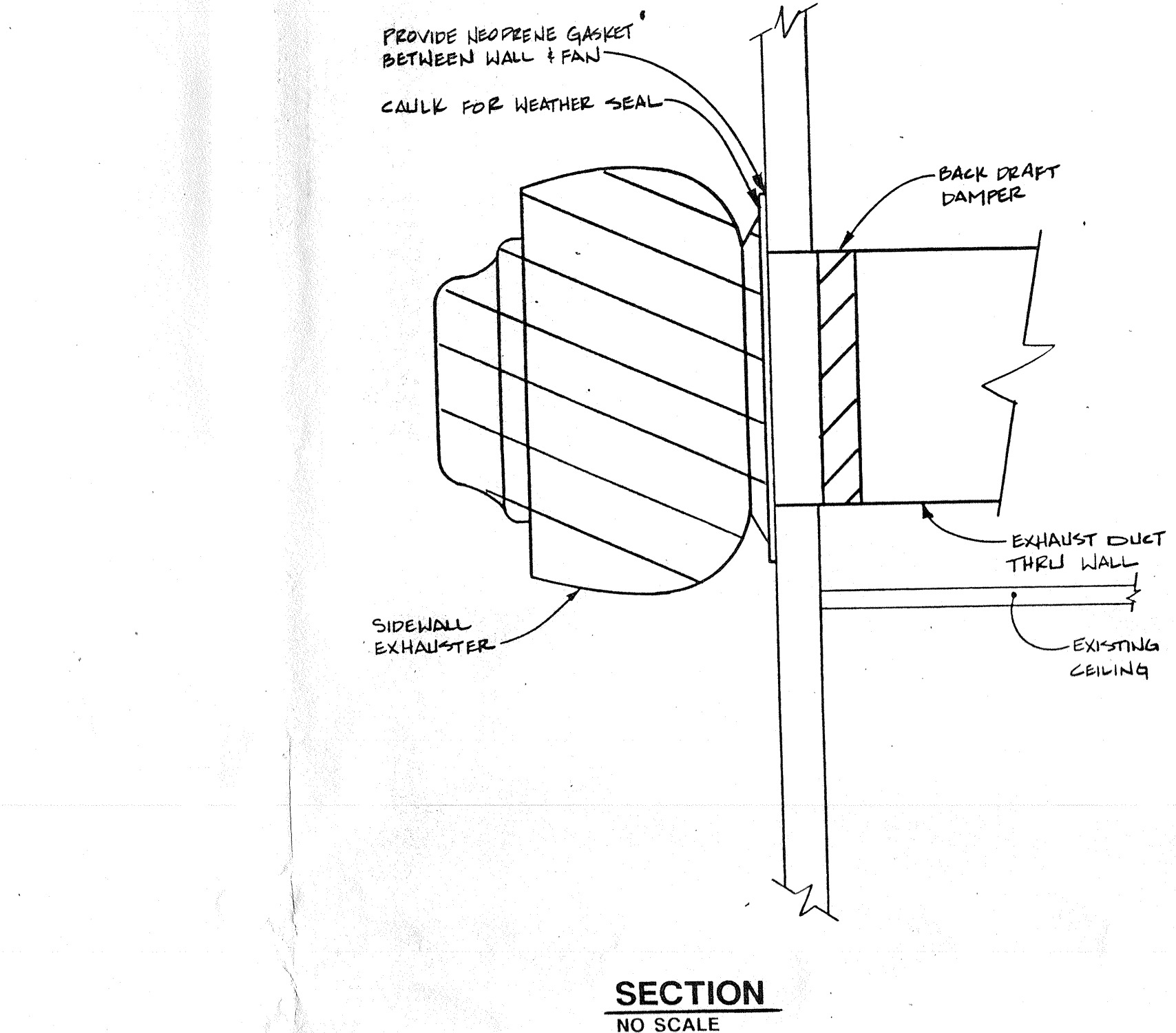
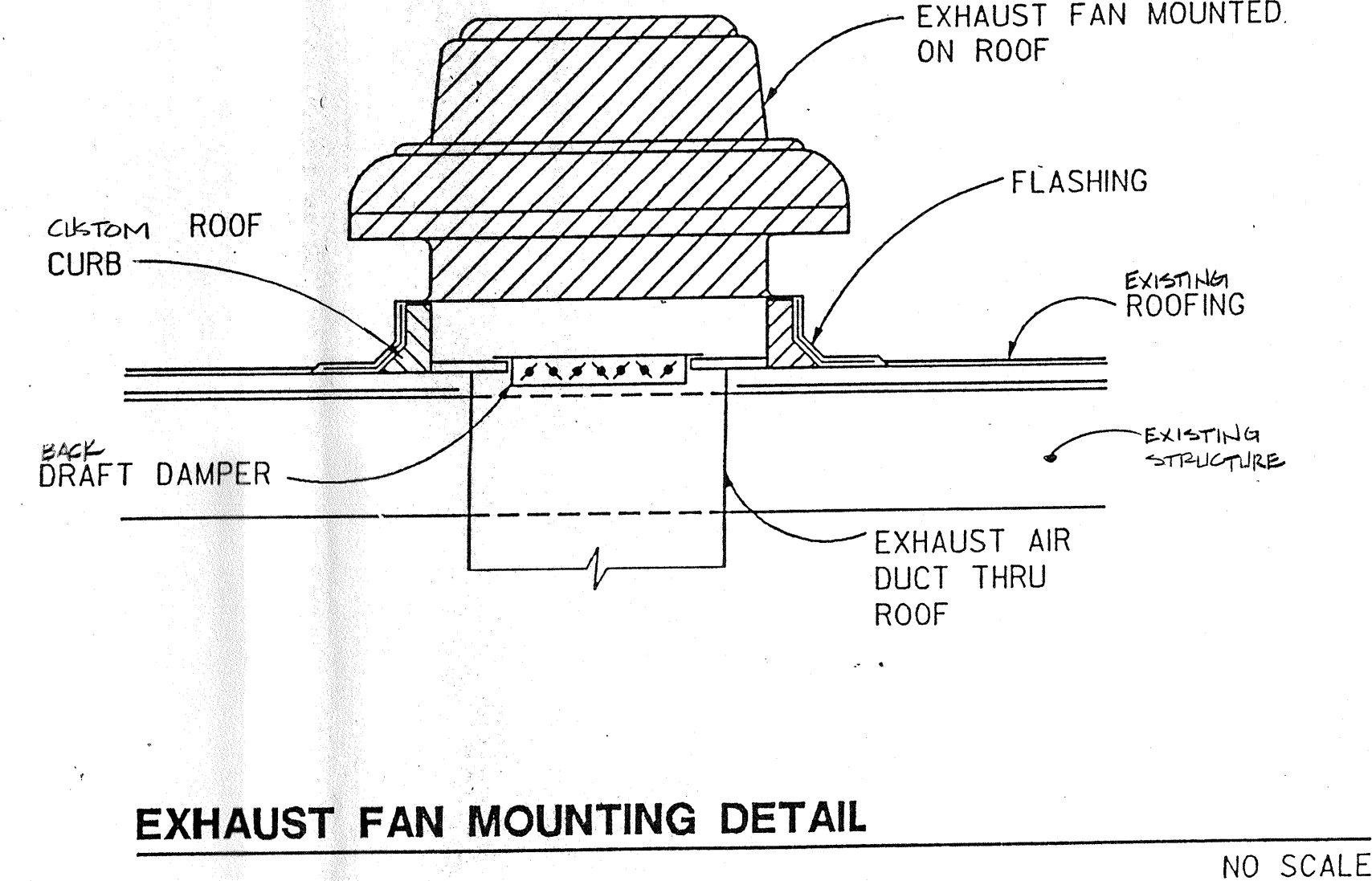
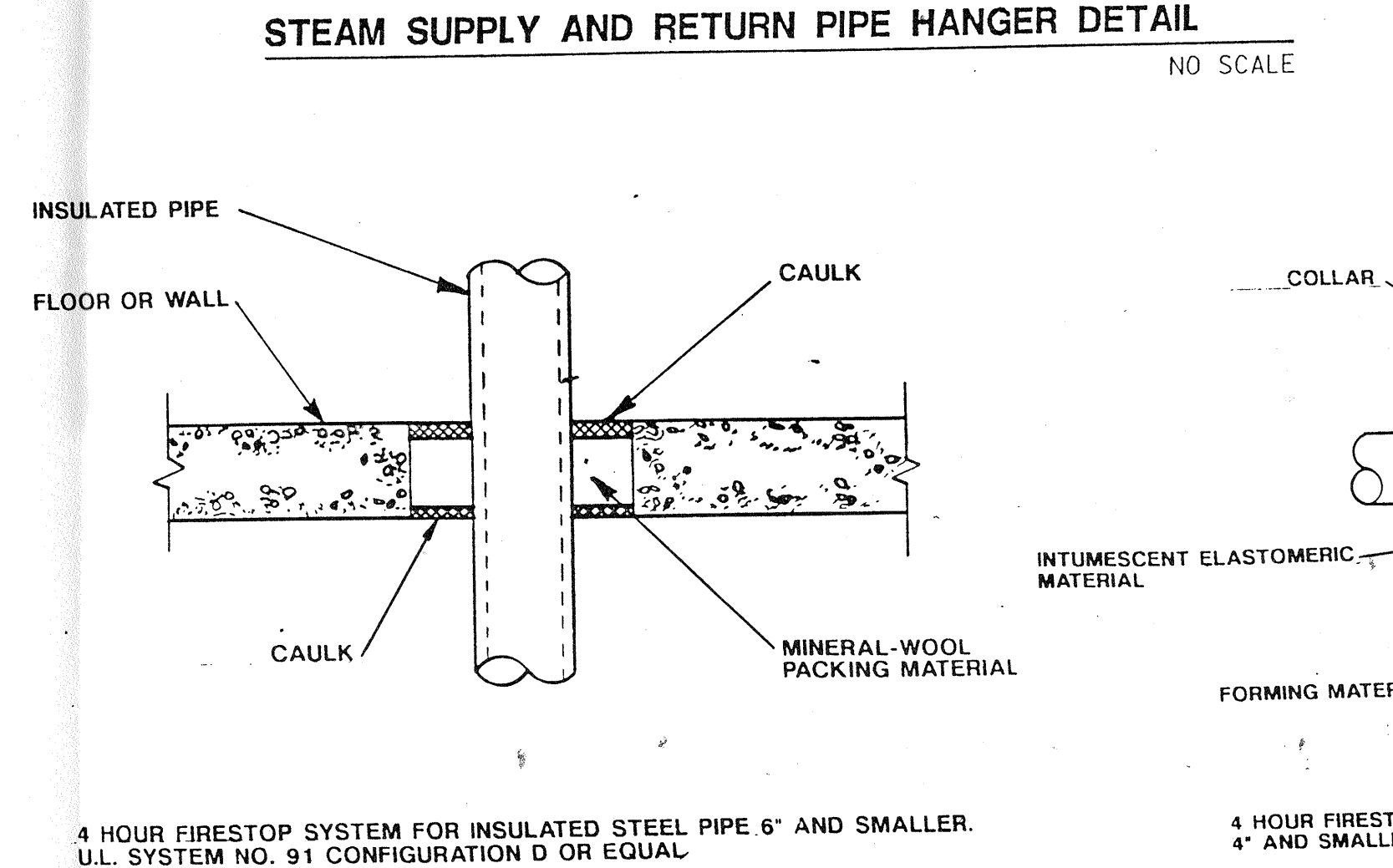
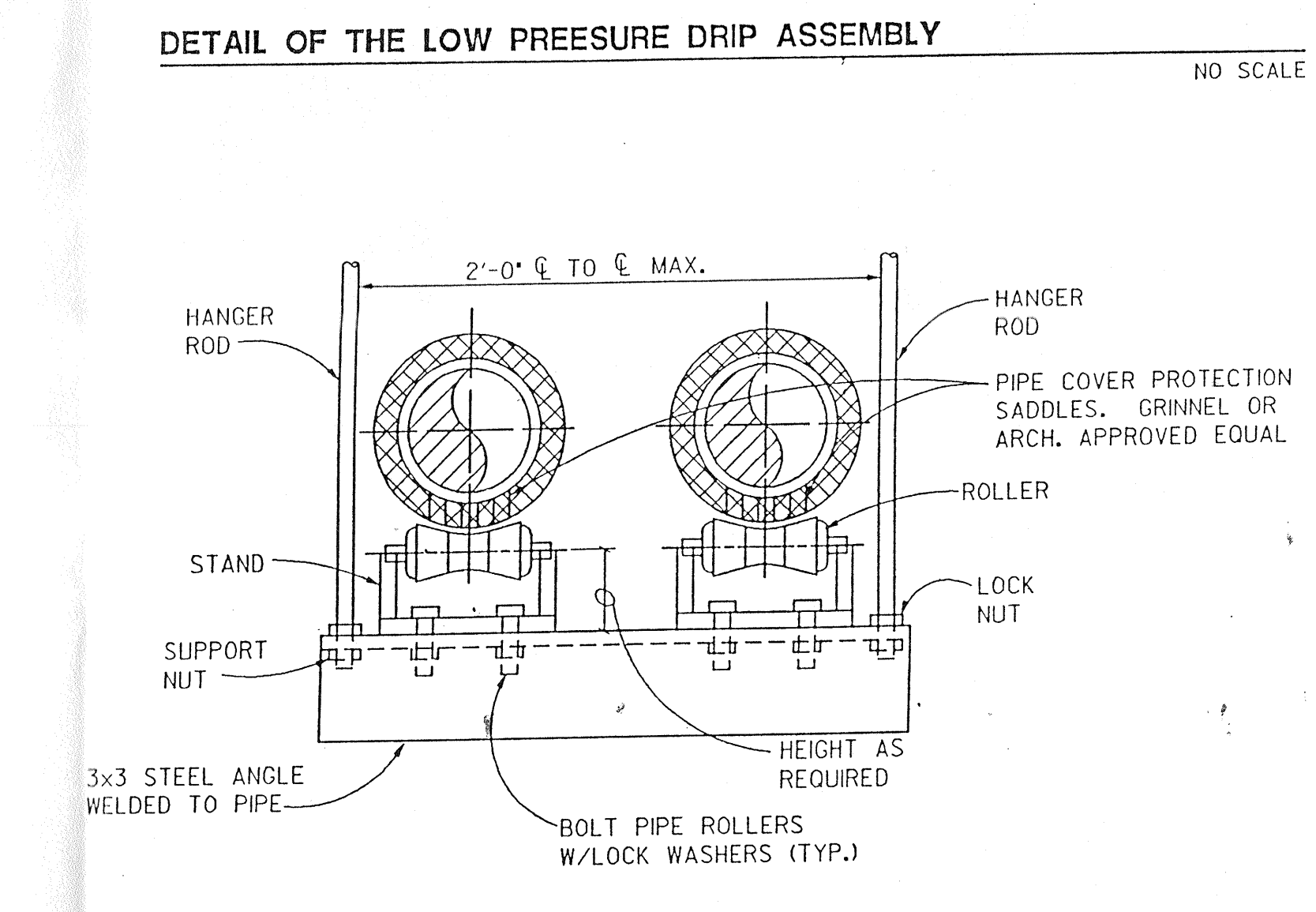
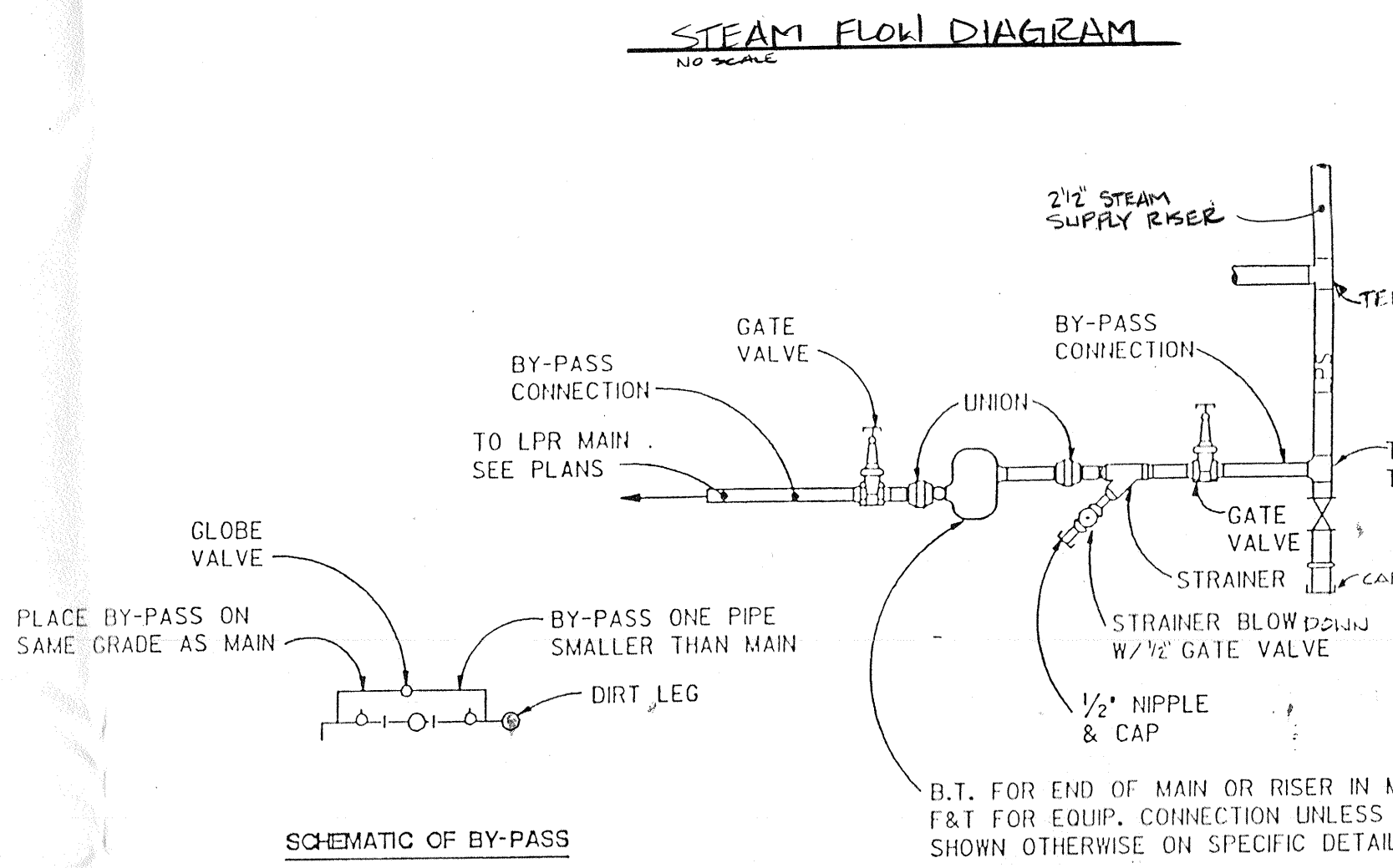
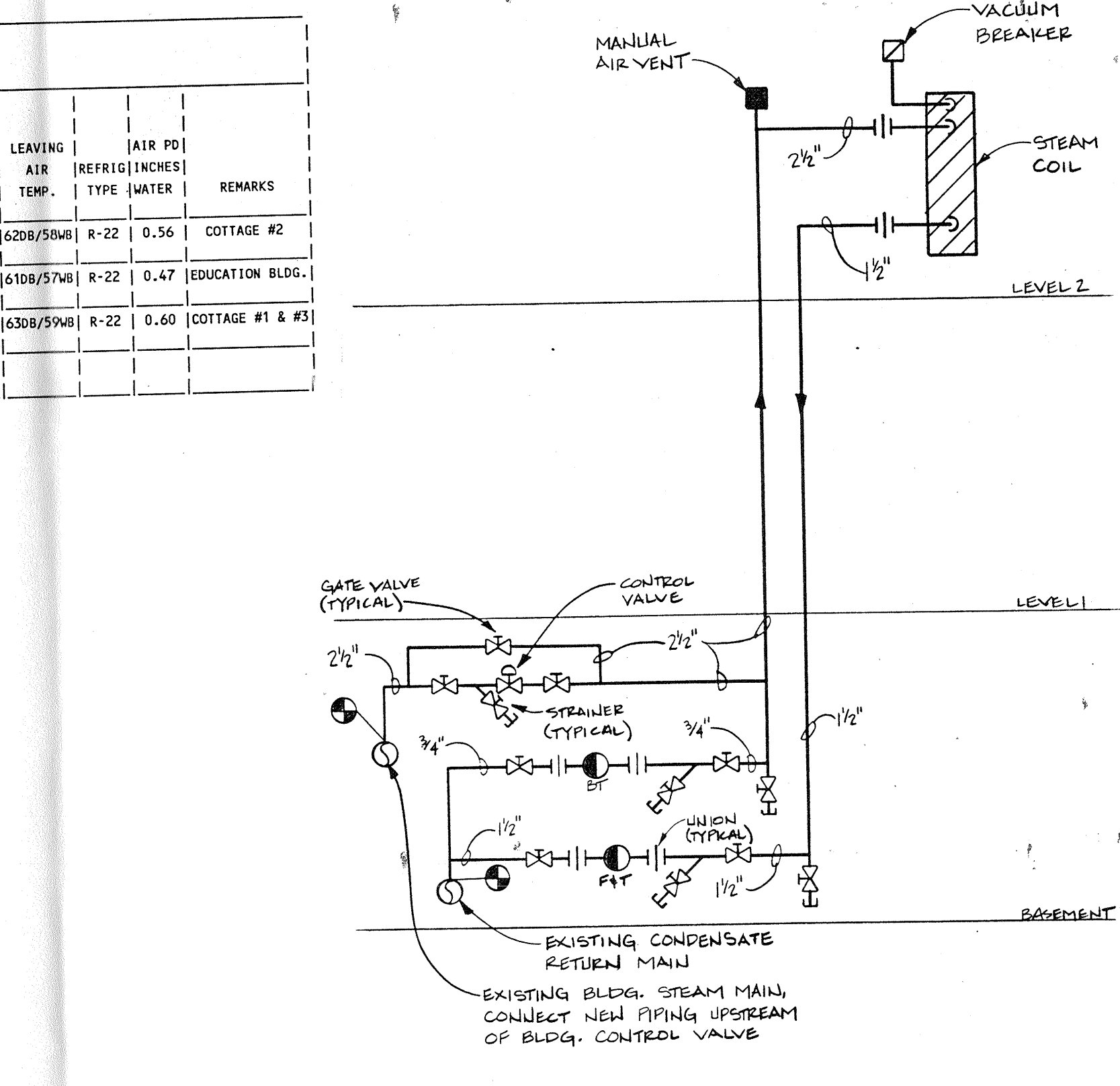
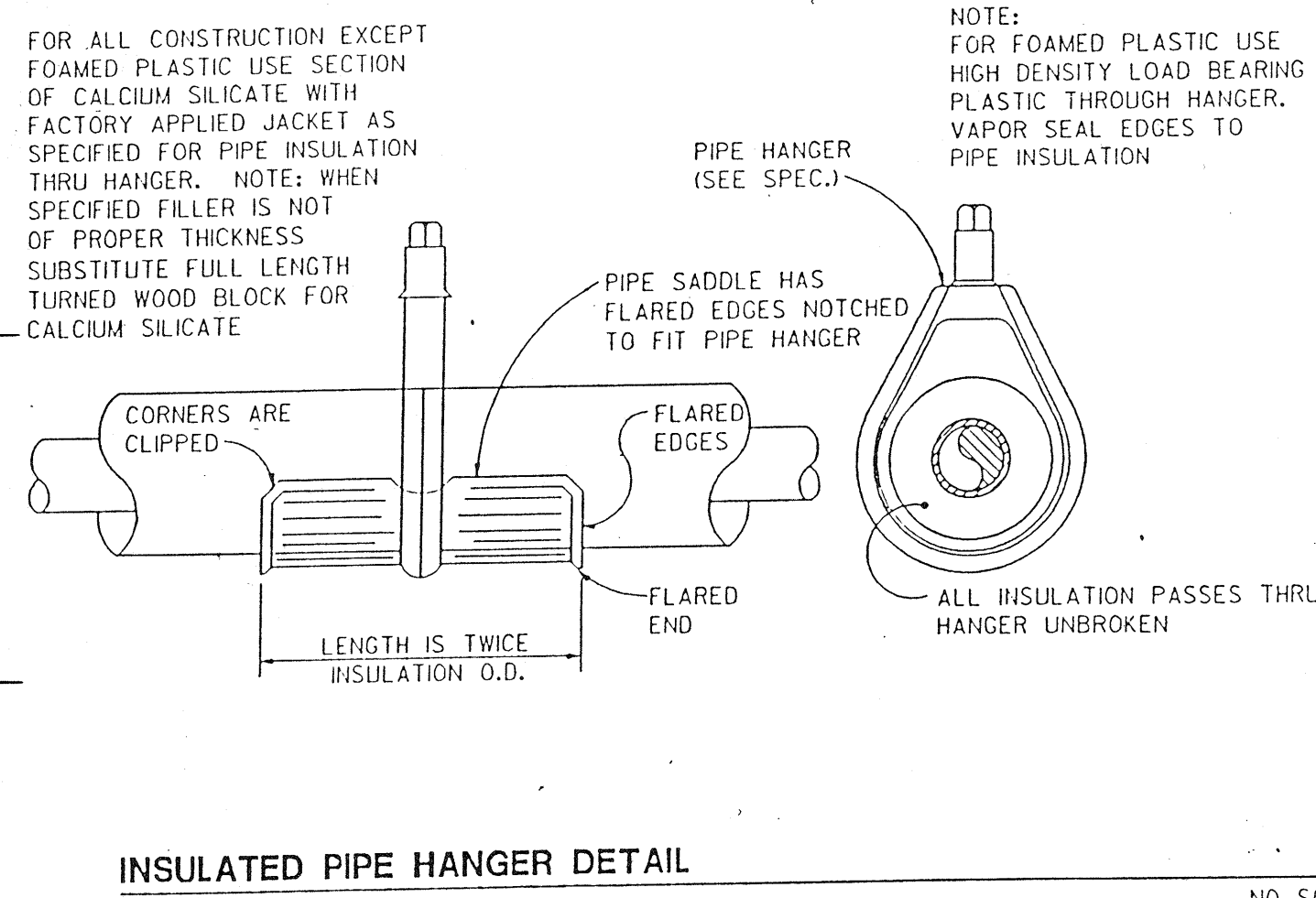
EXHAUST FAN SCHEDULE														
PLAN MARK	CFM	STATIC PRES. INCHES	RPM	HP	VOLT	PH.	NO. SPEEDS	MOUNTING	MANUFACTURER AND/OR TYPE	REMARKS	MOTOR			
											AMPS	LA	LA	
EF-1	300	0.5	1200	1/4	120	1	1	1	WALL MOUNTED	COOK	COITAGE #1			
EF-2	300	0.5	1200	1/4	120	1	1	1	WALL MOUNTED	COOK	COITAGE #3			
EF-3	300	1.0	1850	1/4	120	1	1	1	ROOF MOUNTED	COOK	COITAGE #2			

AIR COOLED CONDENSING UNIT SCHEDULE													
PLAN MARK	CAP. MBH	COND. AMBIENT TEMP. °F	REFRIG. NO.	NO. COMP.	MAX. UNIT AMPS	VOLT	PH.	UNIT	PK. 1	MANUFACTURER	REMARKS	CONDENSING UNIT	
												LA	LA
ACU-1	123	95	R-22	2	65	208	3	TRANE	TTA120B3				
ACU-2	121	95	R-22	2	65	208	3	TRANE	TTA120B3				
ACU-3	123.5	95	R-22	2	65	208	3	TRANE	TTA120B3				

DIFFUSER AND REGISTER SCHEDULE					
PLAN MARK	MANUFACTURER, MODEL NUMBER AND TYPE	FINISH	MOUNTING	REMARKS	
CD-1	CARNES MODEL SP8B PERFORATED DIFFUSER	WHITE	LAY-IN MOUNTED	SEE NOTE 1	
RR-1	CARNES MODEL SP8B PERFORATED DIFFUSER	WHITE	LAY-IN MOUNTED	SEE NOTE 1	
RG-1	CARNES MODEL RHEA RETURN GRILLE 56x20	WHITE	DUCT MOUNTED	SEE NOTE 1	
SG-1	KRUEGER MODEL 1330 SECURITY GRILLE	STANDARD	WALL MOUNTED	SEE NOTE 1	
RG-1	KRUEGER MODEL 1330 SECURITY GRILLE	STANDARD	DUCT MOUNTED	SEE NOTE 1	
ER-1	KRUEGER MODEL 1330 SECURITY EXHAUST REGISTER	WHITE	CEILING	SEE NOTE 1	

NOTE 1: WITH OPPOSED BLADE DAMPERS.
NOTE 2: CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DIFFUSER TRIM WITH CEILING TYPE.

STEAM TRAP SCHEDULE					
PLAN MARK	TRAP SIZE	CAPACITY LB/HR	DIFF. PRESSURE PSI	MANUFACTURER	REMARKS
F&T	1 1/2"	1200	0.5	ARMSTRONG	F&T TRAP
BT	3/4"	500	0.5	ARMSTRONG	BUCKET TRAP



HLM
Hansen Lind Meyer, Inc.
Drawer 310
Plaza Centre One
Iowa City, Iowa 52244
319 354-4700
Iowa City, Iowa
Chicago, Illinois
Orlando, Florida

project name/owner's name
Ia. Dept. of General Services and Ia. Dept. of Corrections
North Central Correctional Facility - Expansion
Rockwell City, Iowa
project number
88067.36
owner's project number

consultants/construction managers
seal/signature

issued for
CONSTRUCTION DOCUMENTS

item	date
OWNER REVIEW	3/20/92
CONSTRUCTION DOCUMENTS	3/21/92
CONSTRUCTION	7-24-92

drawn by *[Signature]*
checked by *[Signature]*

sheet title
Mechanical Schedules & Details
sheet number
M-3

project name/owner's name
la. Dept. of General Services and la. Dept. of Corrections

North Central Correctional Facility - Expansion

Rockwell City, Iowa

project number
88067.36

owner's project number

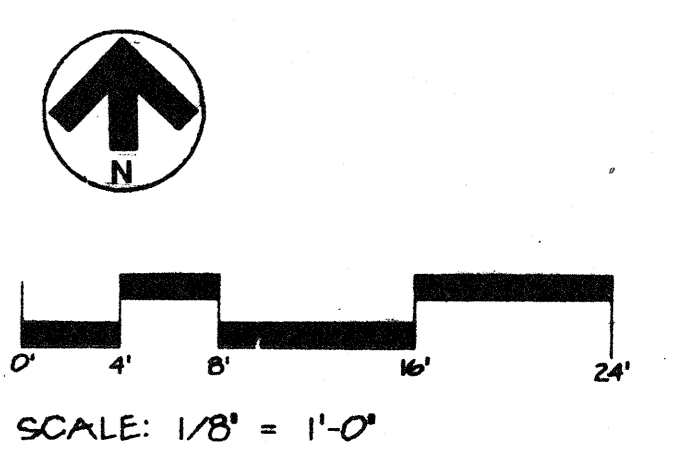
consultants/construction managers

seal/signature

issued for
CONSTRUCTION DOCUMENTS

item	date
FINAL REVIEW	3-2-02
CONSTRUCTION DOCUMENTS	3-21-02
CONSTRUCTION	7-24-02

drawn by *Justin A. Hoff*
 checked by *Mark Stapp*



sheet title
Mechanical Plan Cottage 3 and Education Building

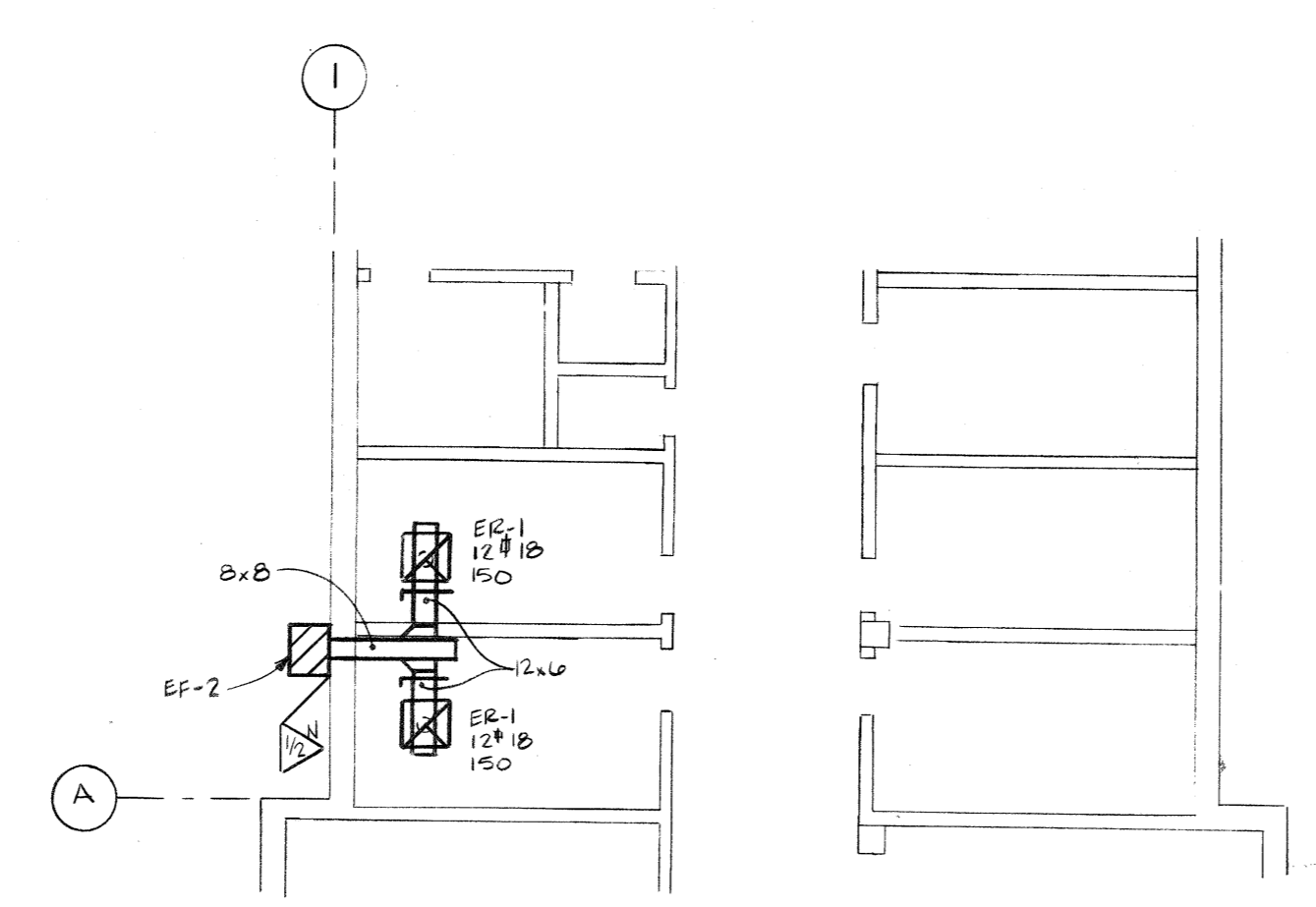
sheet number
M-2

GENERAL HVAC NOTES:

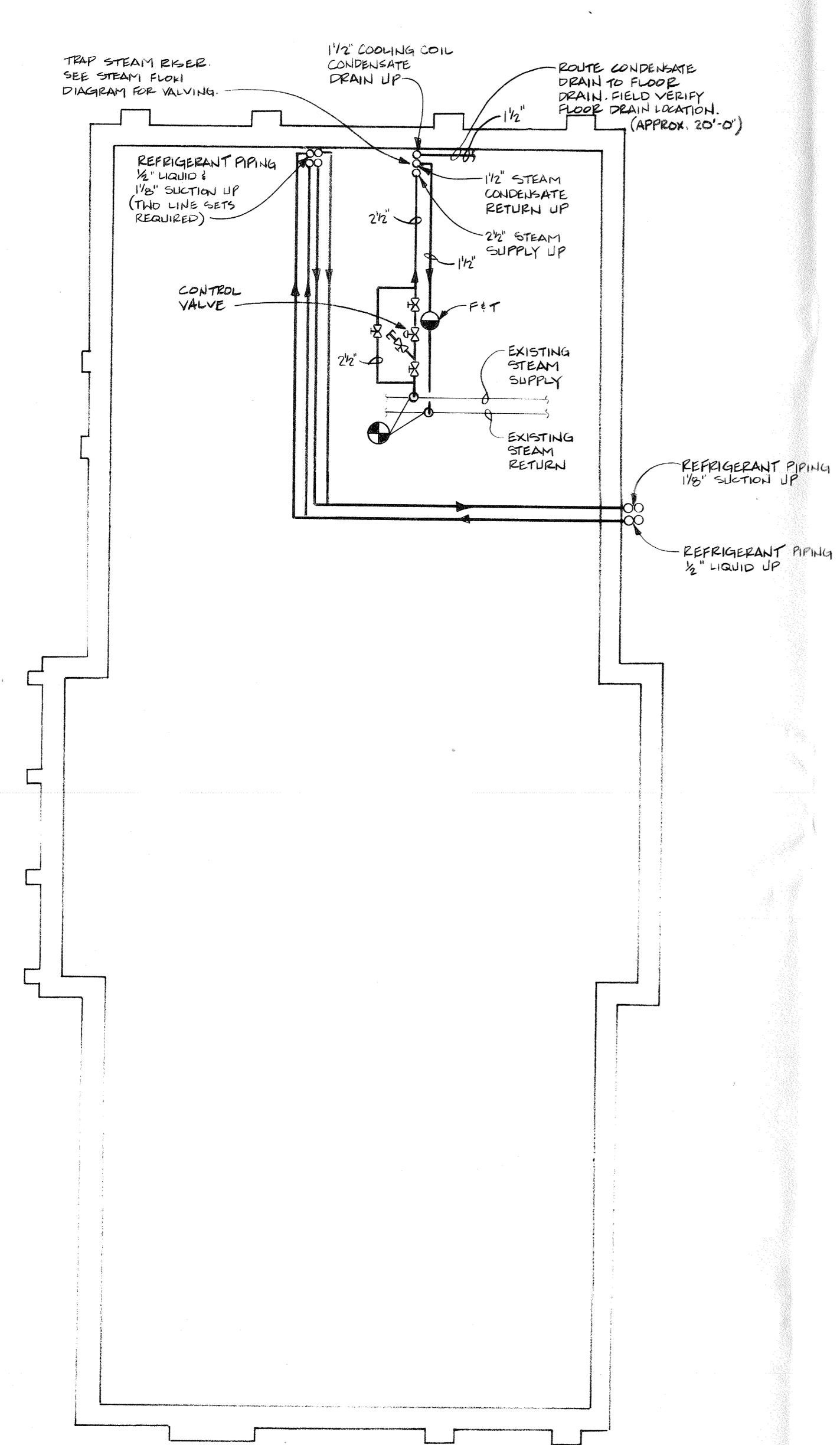
- ALL DUCTWORK IS SHOWN IN SCHEMATIC FORM. DUCT RISERS AND DROPS ARE NOT SHOWN, PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH TRADES. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.
- DIFFUSERS, GRILLES AND REGISTER LOCATIONS SHALL BE AS SHOWN.
- DIFFUSERS WITH NO-THROW INDICATING ARROWS SHALL BE 4-WAY.
- DIFFUSER, GRILLE AND REGISTER NOMENCLATURE SHALL BE AS FOLLOWS:
 CDA - TYPE
 E24 - 5" ROUND NECK, 24" SQUARE MODULE
 100 - CFM
- PROVIDE RIGID METAL DUCT, WITH NO EXCEPTION, WHERE FIRE WALLS AND/OR SMOKE WALLS ARE PENETRATED.
- MANUAL VOLUME DAMPERS SHALL BE PROVIDED ON ALL RETURN, SUPPLY AND EXHAUST BRANCH DUCTS.
- VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
- DUCTWORK IS SHOWN IN SCHEMATIC FORM FOR CLARITY. EXACT LOCATION OF THE DUCTWORK MAY VARY SOME ACCORDING TO THE REQUIRED SPACE NEEDED.
- CONNECTIONS TO, AND SHUTDOWNS OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES TO EXISTING SERVICES.
- COILS SHALL BE PLACED AS TO ALLOW ADEQUATE ACCESS FOR REPAIR.

GENERAL PIPING NOTES:

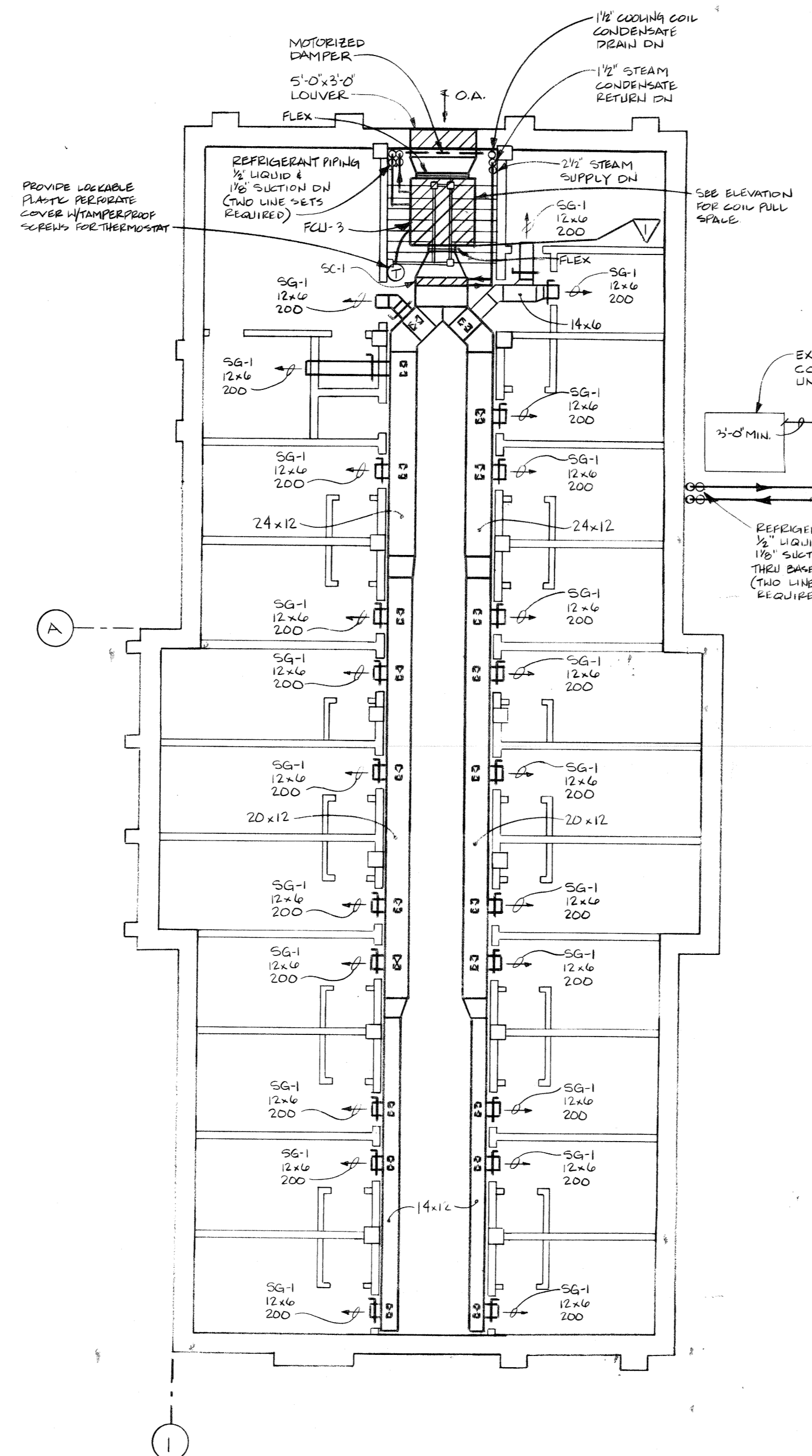
- VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
- PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE PIPING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE WITH OTHER TRADES AS REQUIRED. PIPING SHALL BE INSTALLED WITH ADEQUATE SLOPE AS REQUIRED FOR EACH PARTICULAR SYSTEM.
- CONNECTIONS TO, AND SHUTDOWNS OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES TO EXISTING SERVICES.
- WALL THERMOSTATS SHALL BE 5'-0" ABOVE FLOOR IN CORRIDORS UNLESS NOTED OTHERWISE.
- FOR EXACT PIPING CONNECTIONS TO TERMINAL UNITS, INCLUDING VALVES, TRAPS AND APPURTENANCES, SEE PIPING DETAIL DRAWINGS.
- PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS WHERE CUTTING IS REQUIRED.



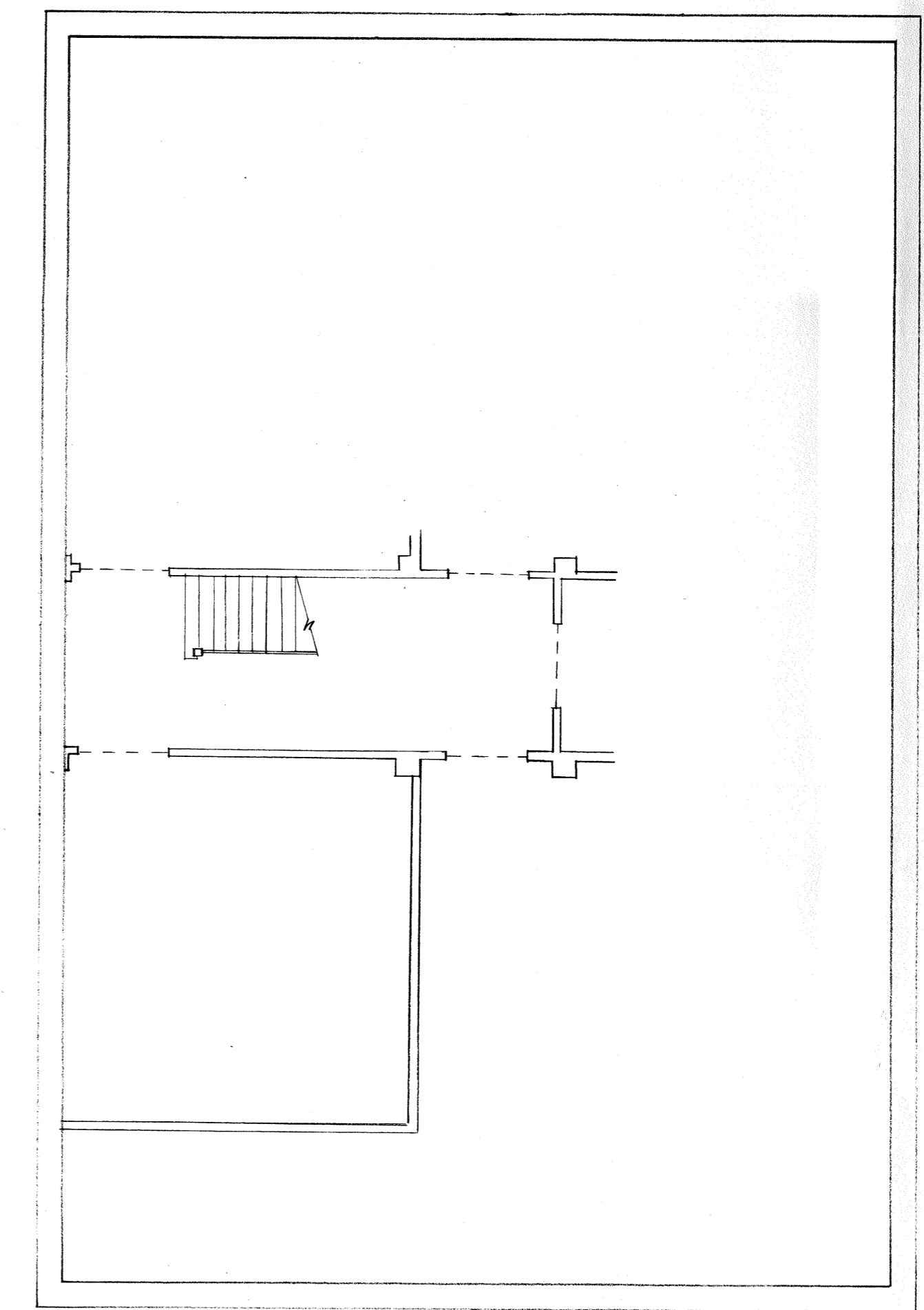
PARTIAL PLAN - LEVEL 1
 SCALE: 1/8" = 1'-0"



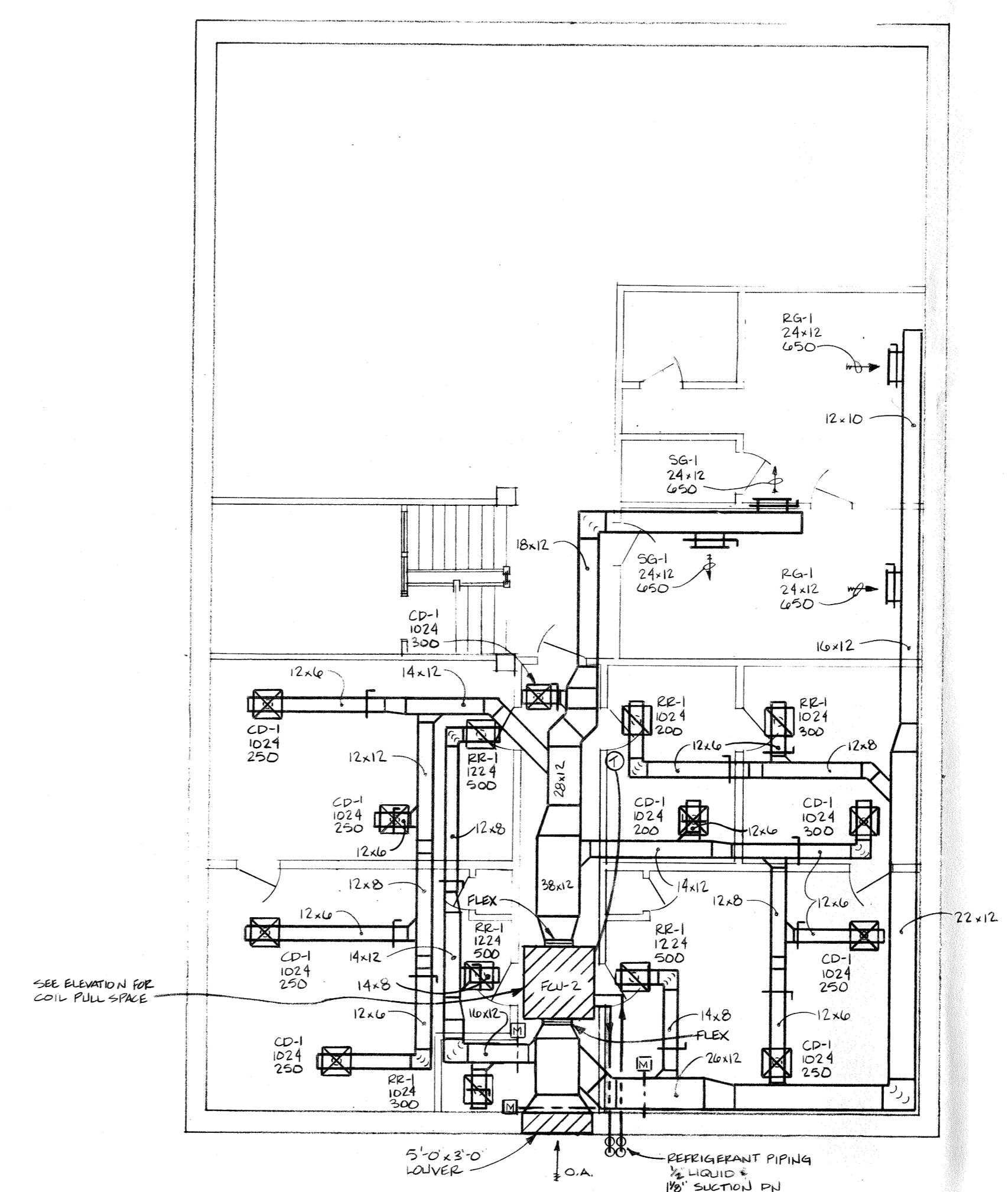
BASEMENT LEVEL - COTTAGE #3
 SCALE: 1/8" = 1'-0"



LEVEL 2 - COTTAGE #3
 SCALE: 1/8" = 1'-0"

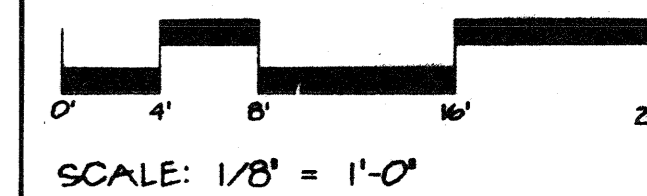


BASEMENT LEVEL - EDUCATION BUILDING
 SCALE: 1/8" = 1'-0"



item	date
FINAL REVIEW	3-21-92
CONSTRUCTION DOCUMENTS	3-21-92
CONSTRUCTION	7-24-92

drawn by *[Signature]*
checked by *[Signature]*



sheet title
**Electrical Plan
Cottage 3 and
Education Building**

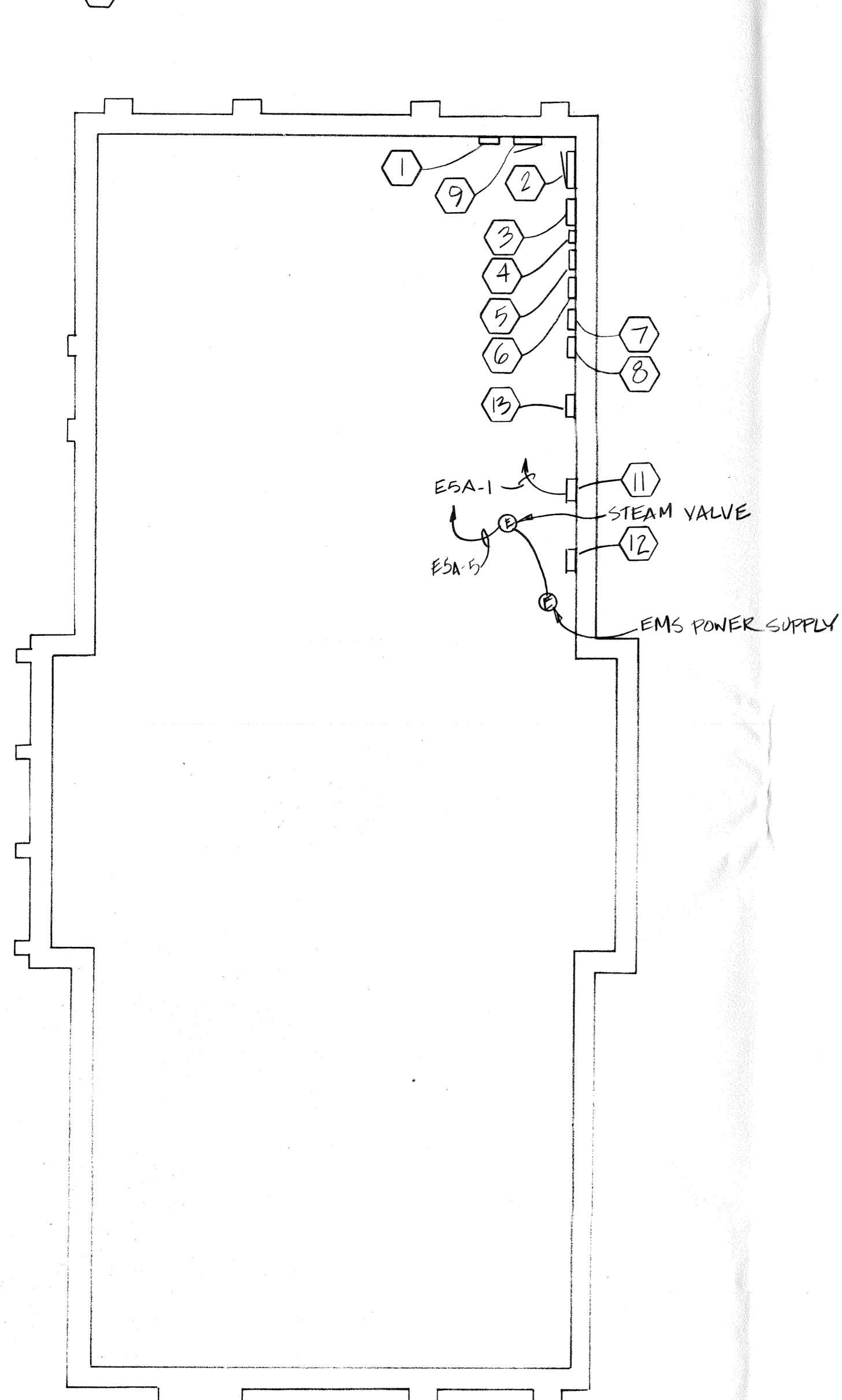
sheet number
E-2

COTTAGE 3 - REFERENCED ELECTRICAL NOTES:

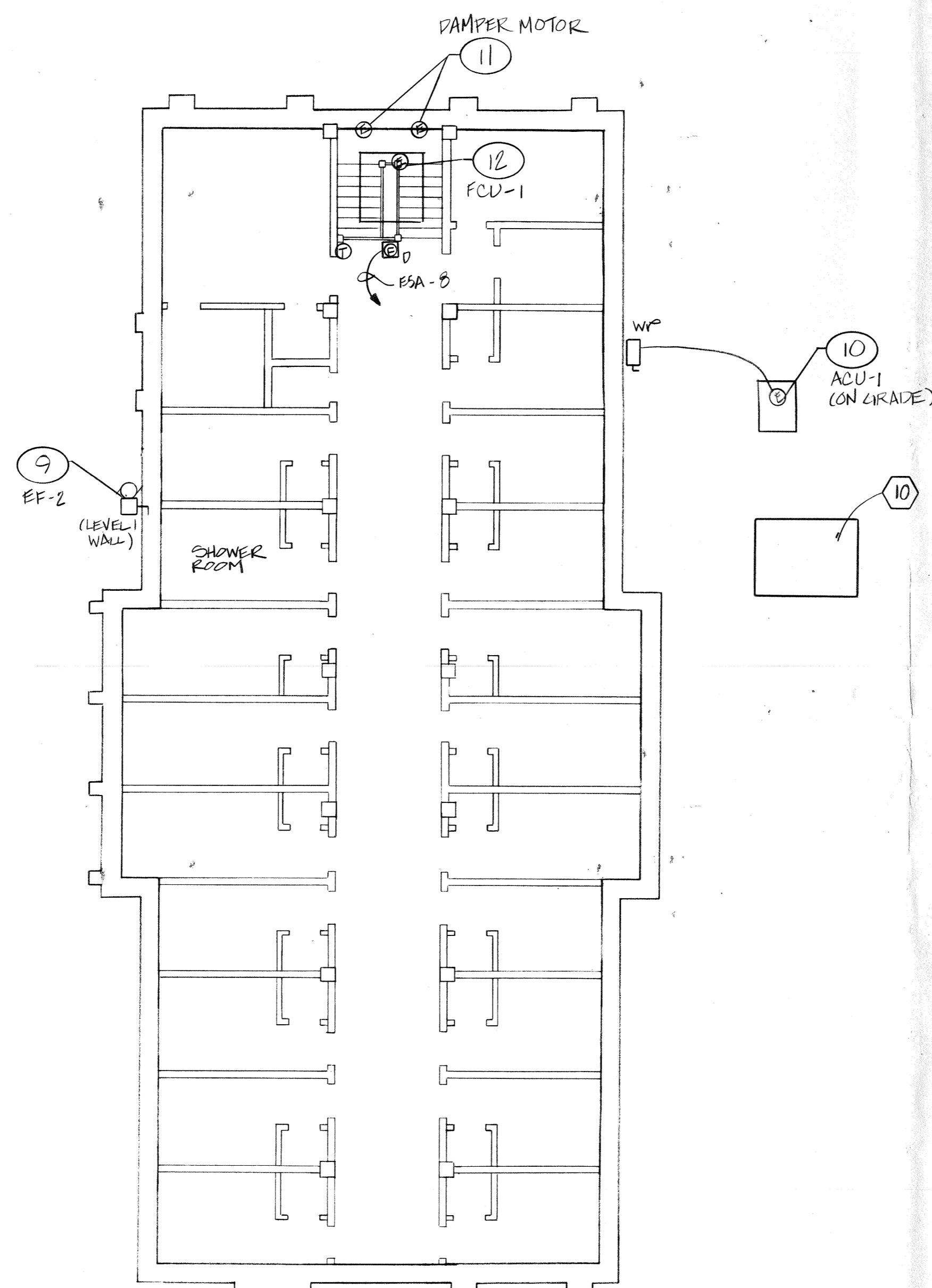
1. EXISTING PULL BOX, SERVICE DISCONNECT SWITCH AND CONDUIT TO WIREWAY TO BE REMOVED.
2. NEW PANEL NC3.
3. EXISTING PANELBOARD TO BE FED FROM PANEL NC3, 4 #3 + 1 #8 GRD, 1 1/4" C. RELOCATE BRANCH CIRCUIT FOR EXISTING CONDENSING UNIT AND BASEMENT EXHAUST FAN TO PANEL AC3. RELOCATE BRANCH CIRCUIT FOR EXISTING FAN COIL UNIT TO PANEL ESA, CIRCUIT 1,3.
4. EXISTING WELDER DISCONNECT AND RECEPTACLE TO BE REMOVED. MOUNT WELDING RECEPTACLE TO WALL AND CONNECT TO PANEL NC3, CIRCUIT 2 AND 4, 2 #8 + 1 #10 GRD, 3/4" C.
5. EXISTING JUNCTION BOX TO REMAIN.
6. EXISTING FUSED SWITCH FOR BASEMENT BRANCH CIRCUIT PANEL TO BE REMOVED.
7. EXISTING FUSED SWITCH FOR LAUNDRY ROOM. REMOVE SWITCH AND EXTEND FEEDER TO PANEL NC3.
8. EXISTING FUSED SWITCH FOR BASEMENT EXHAUST FAN. RECONNECT BRANCH CIRCUIT TO PANEL AC3, CIRCUIT 2.
9. NEW HVAC PANEL AC3.
10. PAD MOUNTED TRANSFORMER ON GRADE.
11. HVAC UNIT CONTROLLER AND TRANSFORMER WITH ADJACENT TOGGLE SWITCH. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
12. MANUAL POTENTIOMETER FOR HVAC DAMPER CONTROL. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
13. EXISTING EMERGENCY PANEL ESA.

EDUCATION BUILDING REFERENCED ELECTRICAL NOTES:

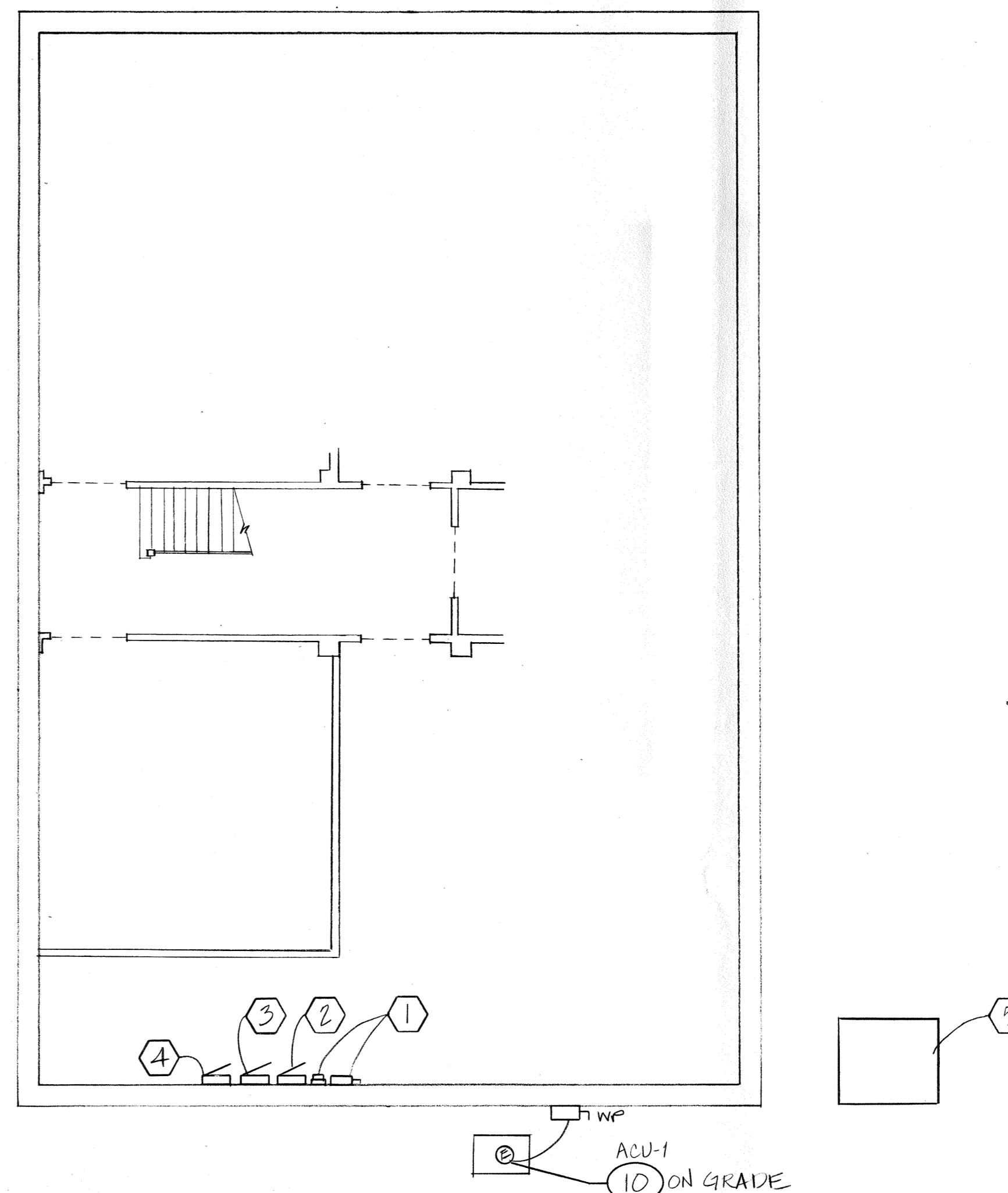
1. EXISTING DISCONNECT SWITCHES/CONDUIT TO BE REMOVED. EXTEND CONDUIT/FEEDERS TO NEW NORMAL DISTRIBUTION PANEL NE1.
2. EXISTING EMERGENCY PANEL E7A TO REMAIN.
3. NEW NORMAL DISTRIBUTION PANEL NE1.
4. NEW HVAC PANEL AC4.
5. PAD MOUNTED TRANSFORMER ON GRADE.
6. MANUAL POTENTIOMETER FOR HVAC DAMPER CONTROL. REFER TO SHEET M-3 FOR WIRING DIAGRAM.
7. PROVIDE ONE (1) 20A, 1P CIRCUIT BREAKER IN EXISTING PANEL E7A.



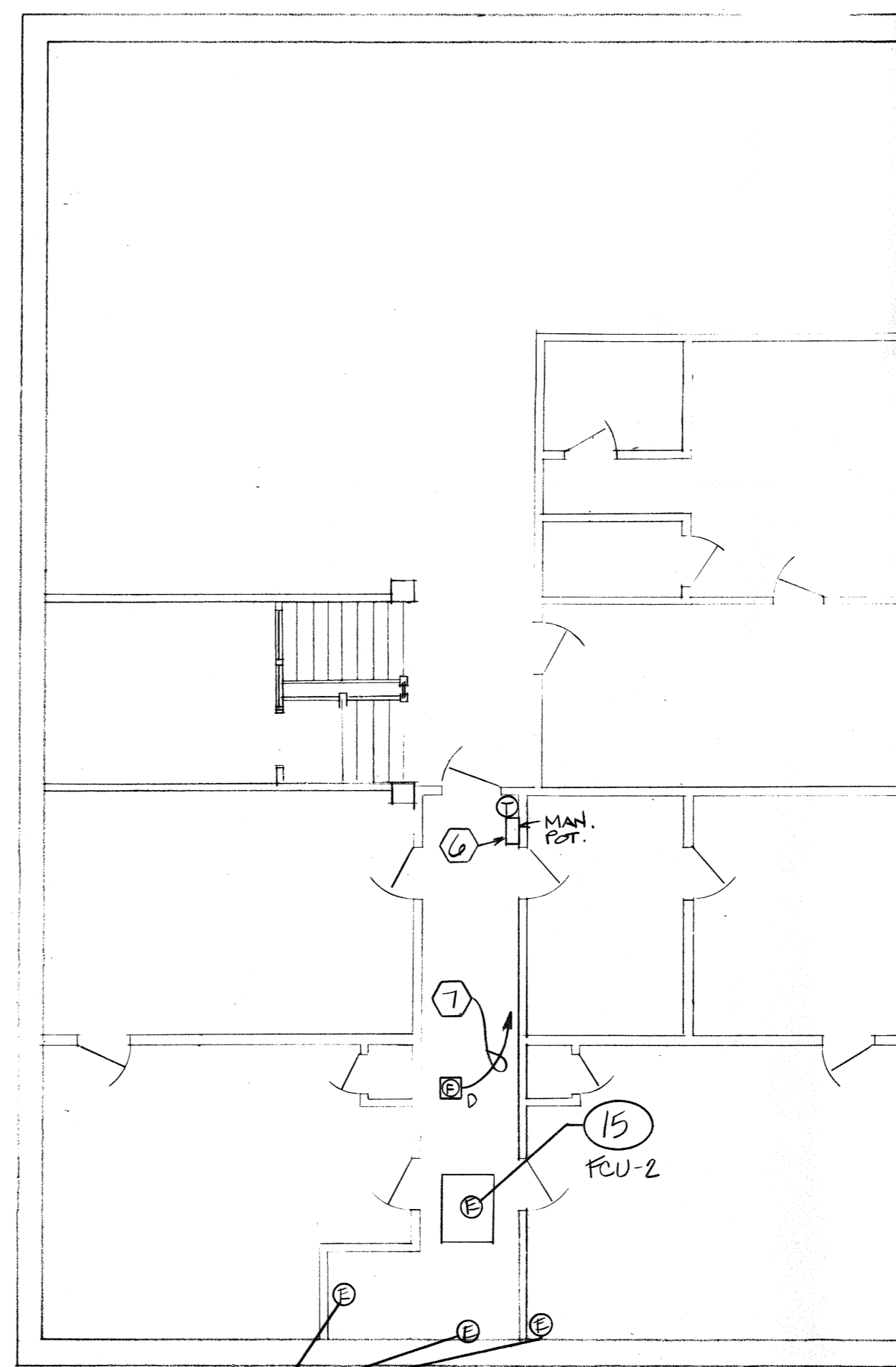
BASEMENT LEVEL - COTTAGE #3
SCALE: 1/8" = 1'-0"



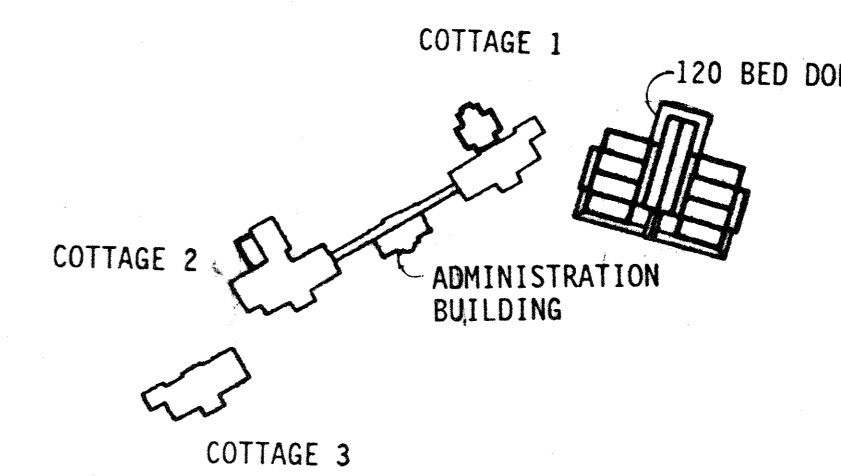
LEVEL 2 - COTTAGE #3
SCALE: 1/8" = 1'-0"



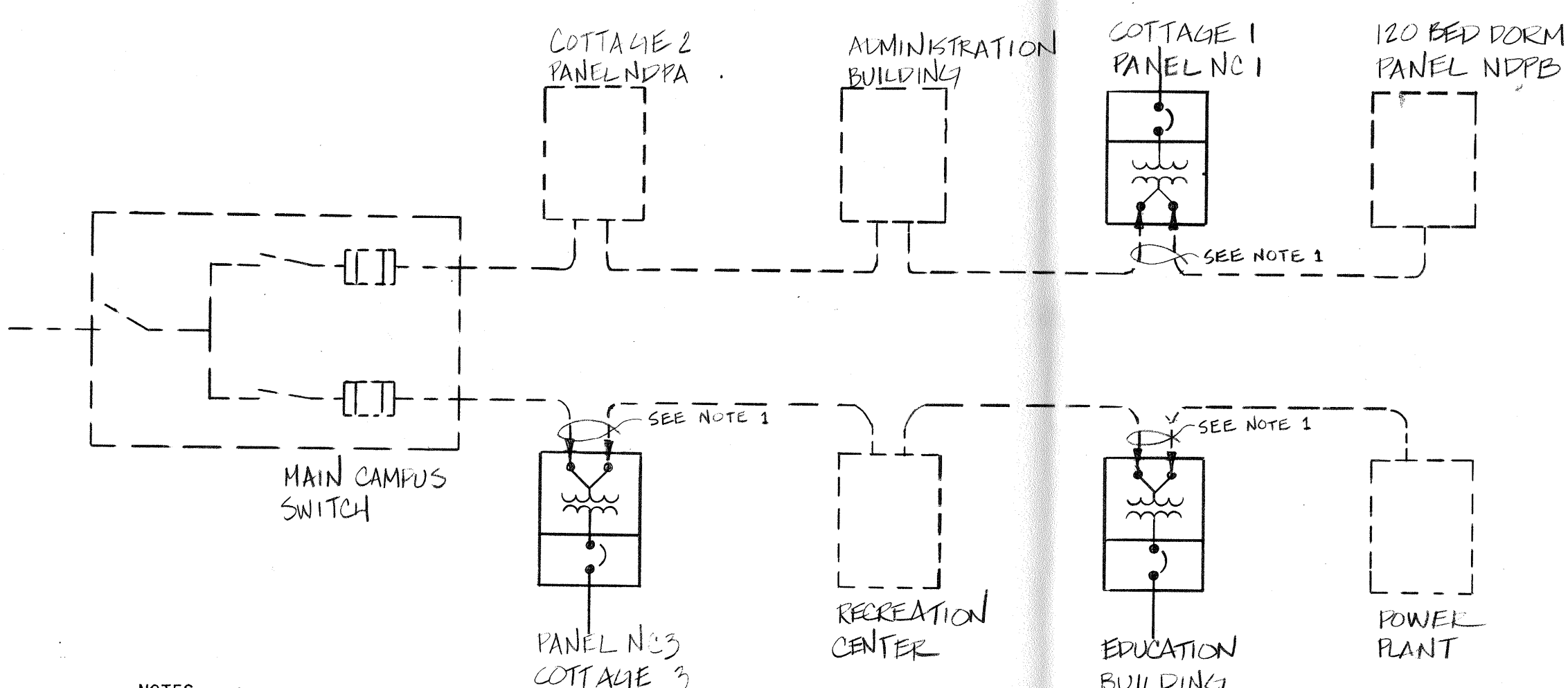
BASEMENT LEVEL - EDUCATION BUILDING
SCALE: 1/8" = 1'-0"



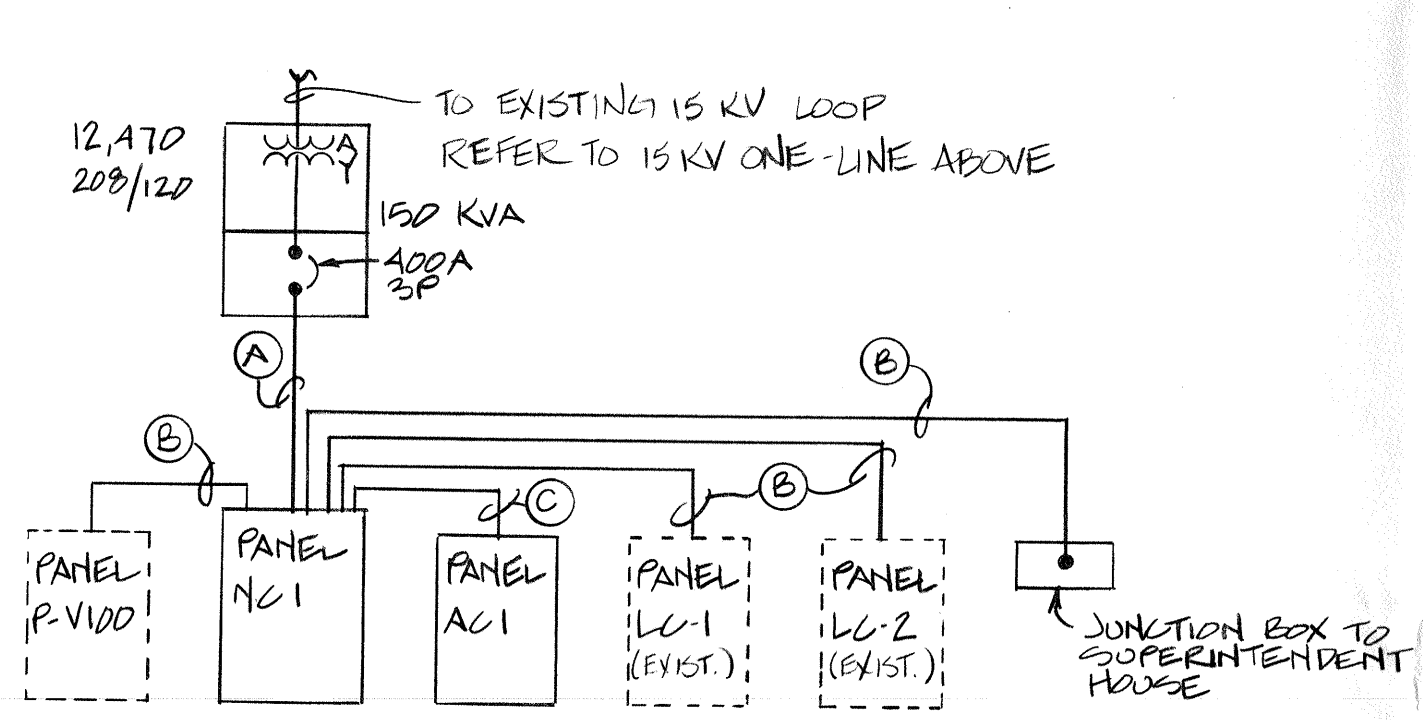
LEVEL 2 - EDUCATION BUILDING
SCALE: 1/8" = 1'-0"



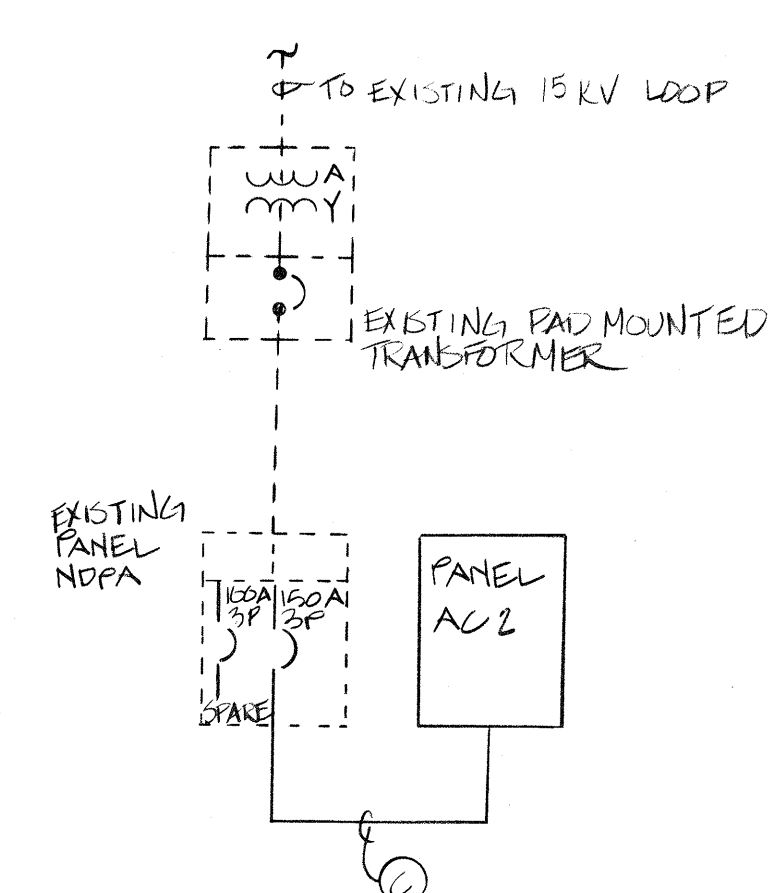
POWER PLANT



15KV ONE-LINE DIAGRAM
NO SCALE



ONE LINE - COTTAGE 1
NO SCALE



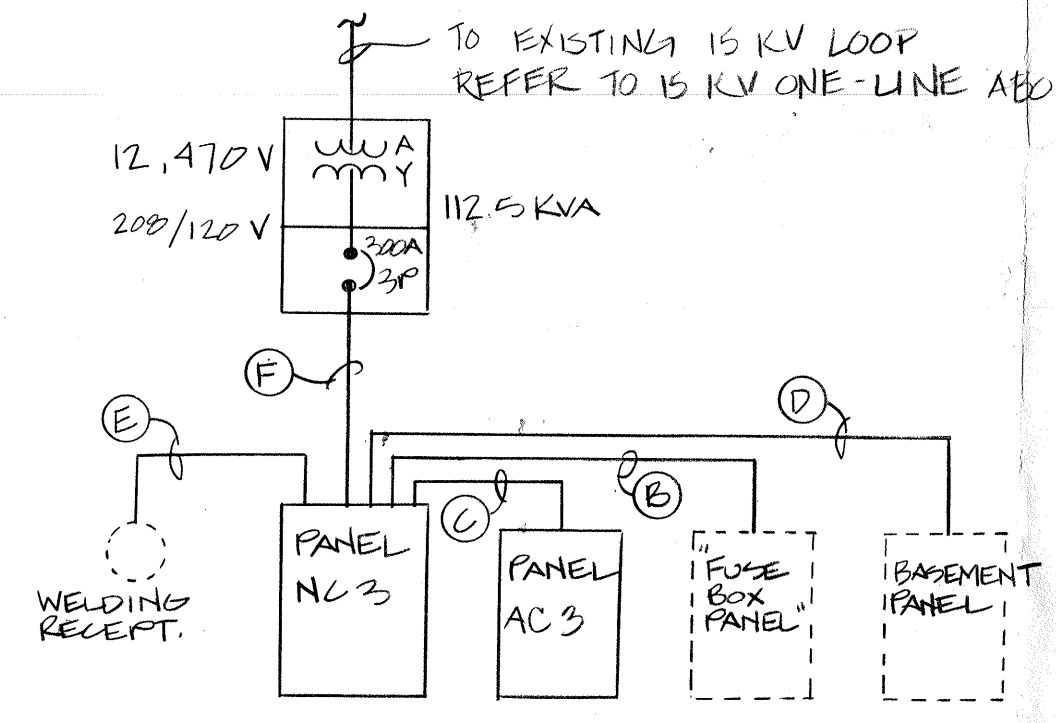
ONE LINE - COTTAGE 2
NO SCALE

KEY NOTES:
A = START - STOP PUSHBUTTON ON DOOR. D = OFF - AUTO SELECTOR SWITCH ON DOOR.
B = AUTO - OFF - HAND SELECTOR SWITCH ON DOOR. G = GREEN PILOT LIGHT ON DOOR.
C = TWO SPEED SELECTOR SWITCH "HI - OFF - LOW". R = RED PILOT LIGHT ON DOOR.
TT = CONTROL CIRCUIT TRANSFORMER.

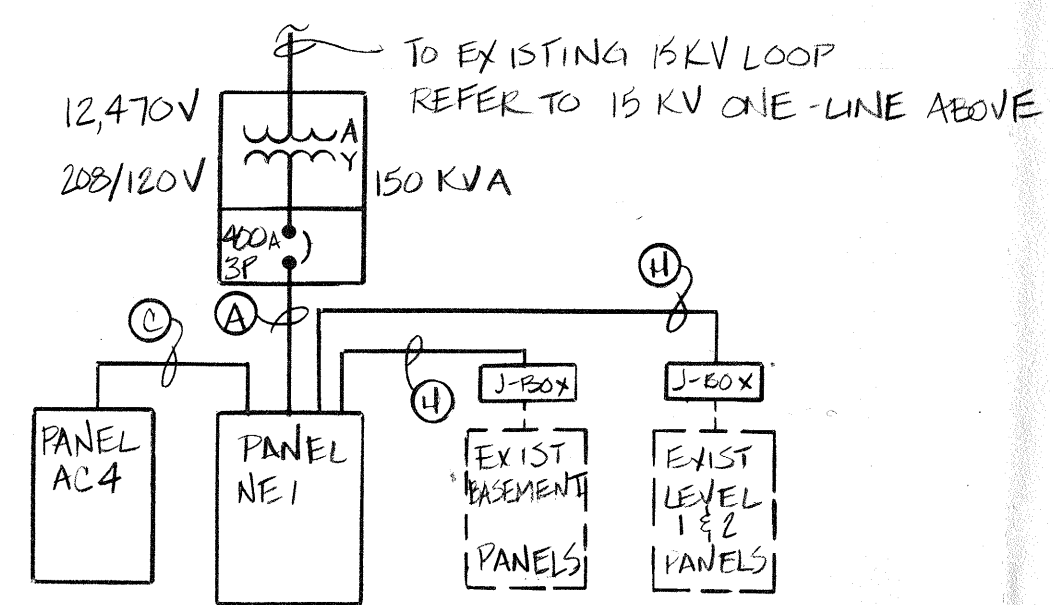
MOTOR AND EQUIPMENT WIRING SCHEDULE

ITEM NO.	DESCRIPTION	HP/KVA	VOLTS/PH	CONDUIT & WIRE	PANEL/MCC	STR [DISC]	SW [FUSE/NEHA]	KEY [NOTES]	REMARKS
1	FAN EF-1	1/6	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	AC-1	-	X 20	5	COTTAGE 1 NOTE 2
2	ACU-1	16.6	208	3 [3 #6 + 1 #8 GRD, 1" C]	AC-1	-	X 100	70	COTTAGE 1
3	DAMPER MOTOR	-	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	E2A-3	-	X 20	-	COTTAGE 1
4	FCU-1	3	208	3 [3 #12 + 1 #12 GRD, 1/2" C]	E2A-2,4,6	-	X 30	-	COTTAGE 1 NOTES 3 & 4
5	FAN EF-3	1/6	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	AC-2	-	X 20	5	COTTAGE 2 NOTE 2
6	ACU-1	16.6	208	3 [3 #6 + 1 #8 GRD, 1" C]	AC-2	-	X 100	70	COTTAGE 2
7	DAMPER MOTOR	-	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	E4A-25	-	X 20	-	COTTAGE 2
8	FCU-1	3	208	3 [3 #12 + 1 #12 GRD, 1/2" C]	E4A-31,33,35	-	X 30	-	COTTAGE 2 NOTES 3 & 4
9	FAN EF-2	1/6	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	AC-3	-	X 20	5	COTTAGE 3 NOTE 2
10	ACU-1	16.6	208	3 [3 #6 + 1 #8 GRD, 1" C]	AC-3	-	X 100	70	COTTAGE 3
11	DAMPER MOTOR	-	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	E5A-5	-	X 20	-	COTTAGE 3
12	FCU-1	3	208	3 [3 #12 + 1 #12 GRD, 1/2" C]	E5A-2,4,6	-	X 30	-	COTTAGE 3 NOTE 4
13	ACU-2	16.6	208	3 [3 #6 + 1 #8 GRD, 1" C]	AC-4	-	X 100	70	EDUCATION BUILDING
14	DAMPER MOTOR	-	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	E7A	-	X 20	-	EDUCATION BUILDING NOTE 5
15	FCU-2	1/6	120	1 [2 #12 + 1 #12 GRD, 1/2" C]	E7A	-	X 30	-	EDUCATION BUILDING NOTES 3 & 4

- NOTES:
- REFER TO SHEET M-3 FOR HVAC CONTROL AND POWER WIRING REQUIREMENTS FOR DIVISION 16.
 - EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH IN RESPECTIVE SHOWER ROOM.
 - PROVIDE ONE (1) 25A, 3P BREAKER IN PANELBOARD.
 - DUCT MOUNTED SMOKE DETECTOR AS NOTED ON DRAWINGS SHALL BE SIMPLEX 2098-9649 WITH IONIZATION HEAD AND REMOTE TEST/RESET/LED STATION AND SHUTDOWN RELAY, 120 VAC.
 - PROVIDE ONE (1) 20A, 1P CIRCUIT BREAKER IN PANELBOARD E7A.



ONE LINE - COTTAGE 3
NO SCALE



ONE LINE - EDUCATION BUILDING
NO SCALE

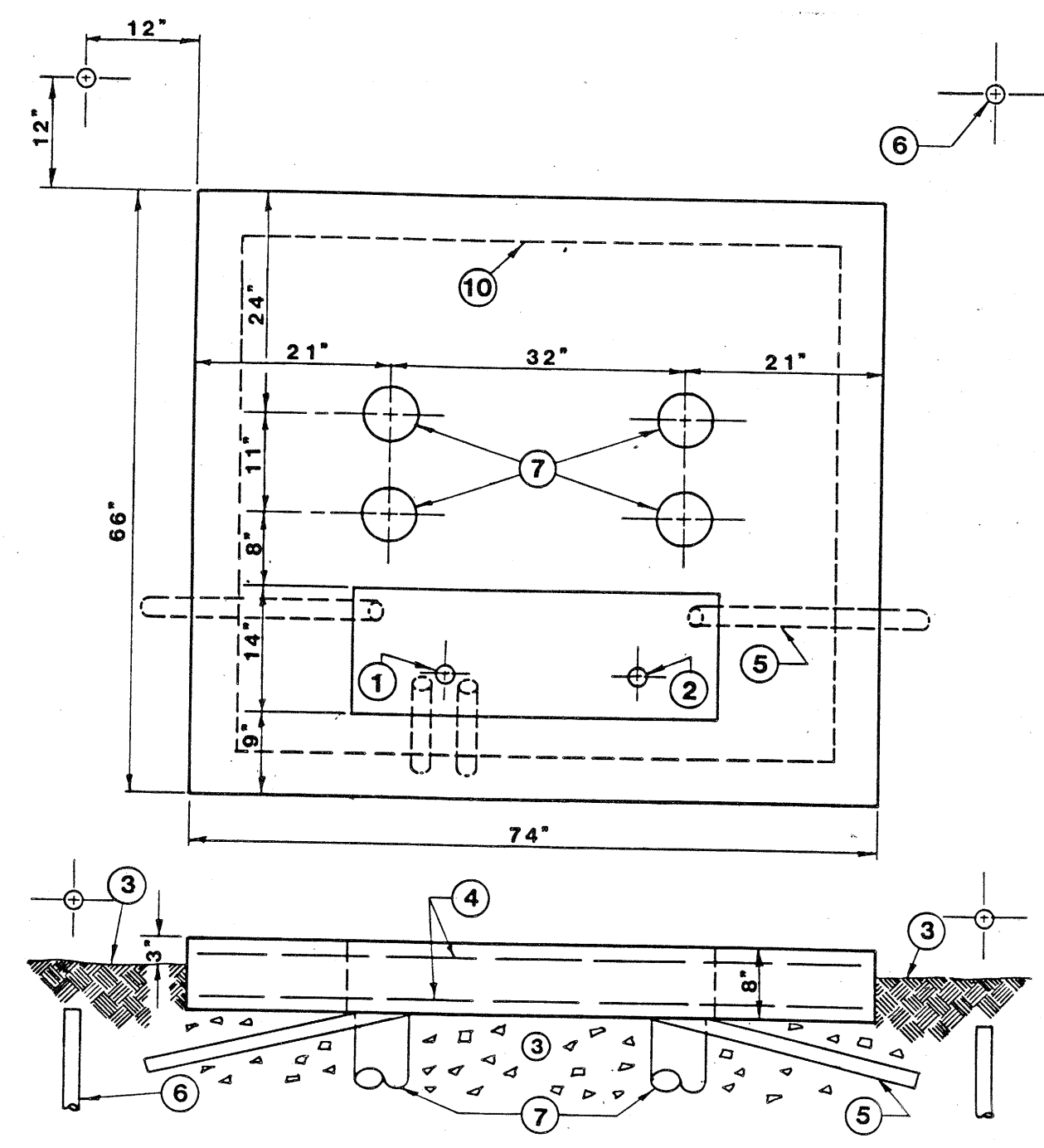
FEEDER SCHEDULE

A	2 SETS OF 4-3/0 + 1 #3 GRD, 2 1/2" C.
B	4 #2 + 1 #8 GRD, 1 1/2" C.
C	4 #1/0 + 1 #6 GRD, 2" C.
D	4 #6 + 1 #10 GRD, 1 1/4" C.
E	2 #8 + 1 #10, 3/4" C.
F	4-350 KCMIL + 1 #4 GRD, 3" C.
G	2 SETS OF 4-350 MCM + 1 #1 GRD, 3" C.
H	3-#4, 1" C.

NOTE: SOLID LINES INDICATE NEW EQUIPMENT
DASHED LINES INDICATE EXISTING EQUIPMENT

PANELBOARD SCHEDULE

PLAN	BRANCHES	CIRCUITS	SIZE	POLE	[INTEGRATED]	EQUIPMENT	REMARKS
NC1	1 4 1 5	1100 [1,3,5 (PANEL LC-1); 2,4,6 (PANEL LC-2); 7,9,11 (SUPP. HOUSE); 13,15,17 (PANEL P-100)]	400A	3P	400A	[208/120]	10,000 SURFACE PROVIDE [45" OF TOTAL BREAKER MOUNTING SPACE
AC1	1 1 3	70 [7,9,11 (ACU-1)]	150A	3P	225A	[208/120]	10,000 SURFACE
AC2	1 1 3	70 [1,3,5 (ACU-1)]	150A	3P	225A	[208/120]	10,000 SURFACE
NC3	1 1 3	100 [1,3,5 (EXISTING "FUSE BOX PANEL")]	400A	3P	400A	[208/120]	10,000 SURFACE PROVIDE [45" OF TOTAL BREAKER MOUNTING SPACE
AC3	1 1 3	70 [1,3,5 (EXIST. COND. UNIT)]	150A	3P	225A	[208/120]	10,000 SURFACE
NE1	1 1 3	150 [1,3,5 (PANEL AC4)]	400A	3P	400A	[208/120]	10,000 SURFACE PROVIDE [45" OF TOTAL BREAKER MOUNTING SPACE
AC4	1 1 3	70 [1,3,5 (ACU-1)]	150A	3P	225A	[208/120]	10,000 SURFACE



TRANSFORMER PAD DETAIL
NO SCALE

- AREA FOR PRIMARY CONDUIT. DO NOT PROJECT CONDUIT ABOVE BOTTOM OF CONCRETE PAD OR FILL BOXED OUT OPENING.
- AREA FOR SECONDARY CABLE.
- SLOPE GRADE AWAY FROM CONCRETE PAD, AND BACKFILL TRENCH SLOTS FOR CONDUITS WITH SAND WHICH HAS BEEN FLOODED WITH WATER.
- CONCRETE PAD TO BE 8" THICK AND REINFORCED WITH 6" X 6" NO. 4 WELDED WIRE FABRIC LAID 2" ABOVE BOTTOM OF PAD AND 2" BELOW TOP OF PAD. TOP SURFACE OF PAD TO BE LEVEL AND SMOOTH AND EDGED ON TOP SIDE. CONCRETE TO HAVE A MINIMUM STRENGTH OF 3500 PSI.
- CONTRACTOR TO PLACE TWO 3/4" PIPES AS SHOWN FOR PROTECTION OF GROUND WIRE TO PRIMARY VOLTAGE BUSHING COMPARTMENT.
- ALL GROUND RODS AND CONDUCTORS TO BE FURNISHED AND INSTALLED BELOW GRADE BY DIVISION 16. PROVIDE 3 - 3/4" X 10' COPPER CLAD GROUND RODS SPACED 10' APART. CONNECT TO TRANSFORMER WITH #4 BARE COPPER GROUND. ALL CONNECTIONS TO BE CAMELID.
- PAD TO BE COMPLETED WITH FOUR FOUNDATION LEGS 8" IN DIAMETER BY 48" LONG. EACH LEG TO HAVE ONE 1/2" REINFORCING ROD 54" LONG WITH AN 8" BEND AT THE TOP.
- ANY AREA UNDER THE PAD WHERE THE EARTH IS DISTURBED MUST BE BACKFILLED AND WELL TAMPED.
- A CLEARANCE OF 10" MUST BE KEPT IN "ROOF" OF THE TRANSFORMER PAD TO ALLOW HOT STICK OPERATION. 24" MUST BE MAINTAINED ON THE THREE OTHER SIDES TO ALLOW FREE AIR CIRCULATION AROUND THE TRANSFORMER.
- 1/2" REINFORCING ROD EXTENDING AROUND THE PERIMETER OF THE PAD, NO JOINTS IN FRONT OF PAD.