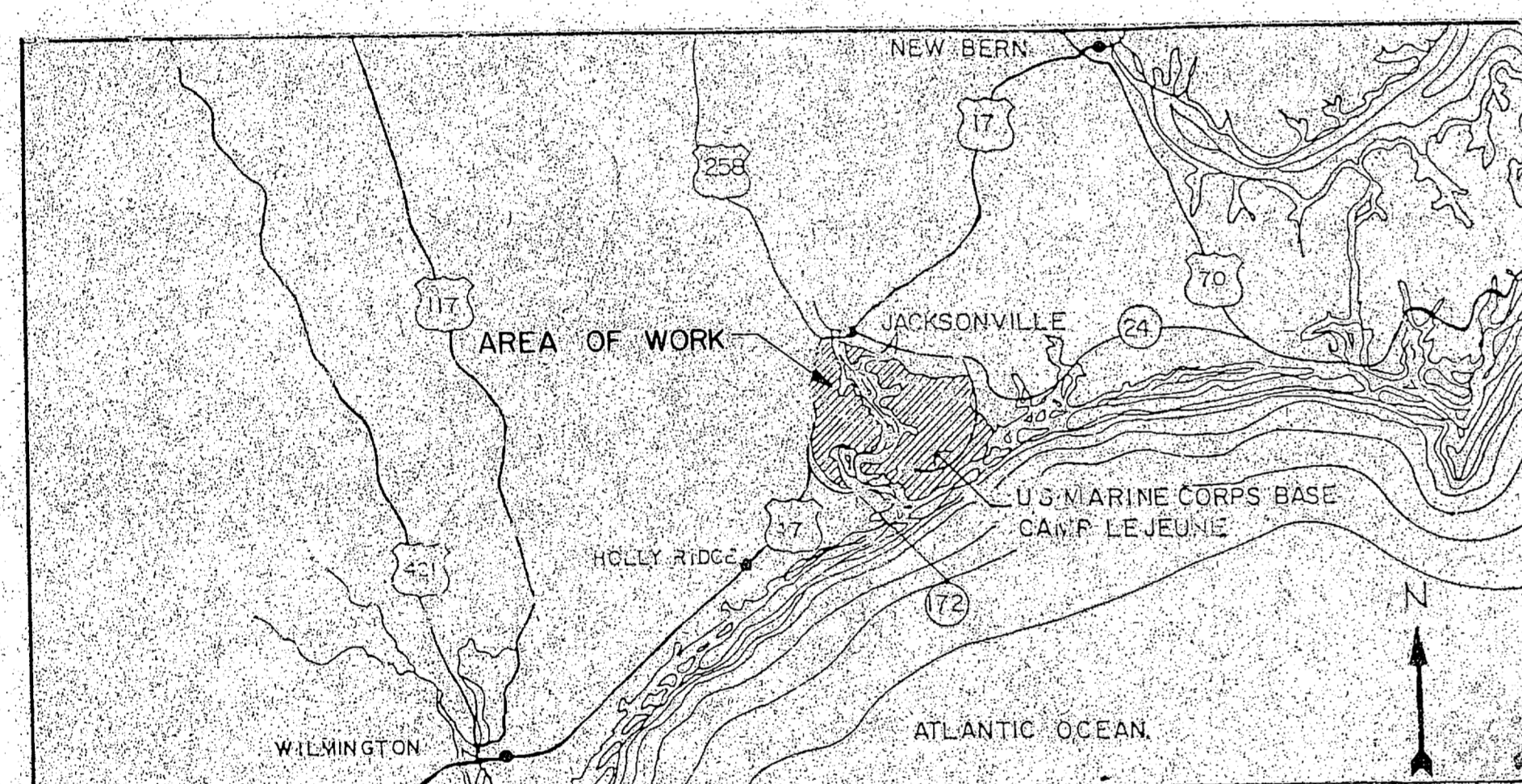


REVISIONS			
SYD.	DESCRIPTION	DATE	APPROVED

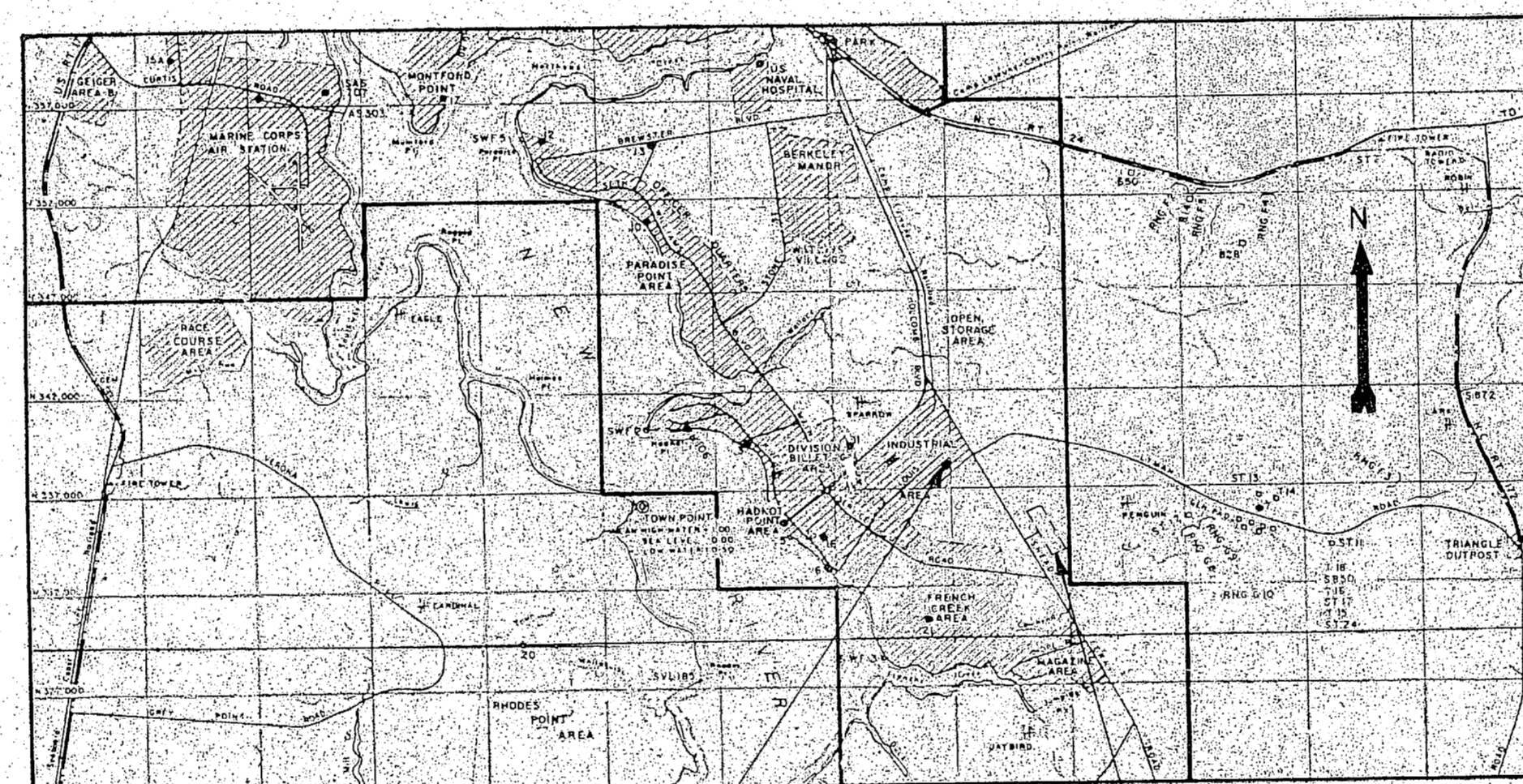
AIR CONDITIONING SYSTEM

BUILDING 1041

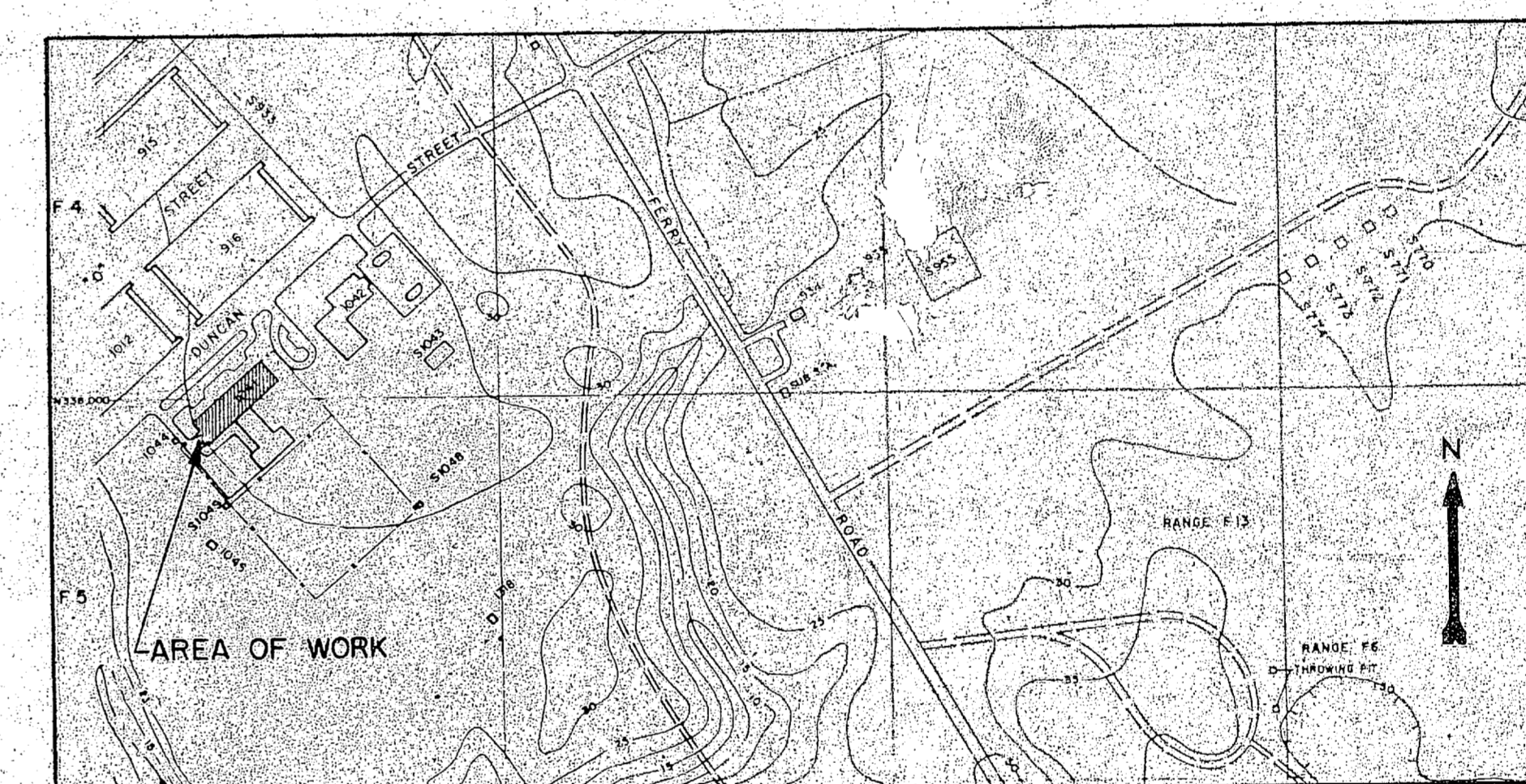
U.S. MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA



LOCATION MAP
SCALE: 1" = 13 MILES



VICINITY MAP
SCALE: 1" = 8000'

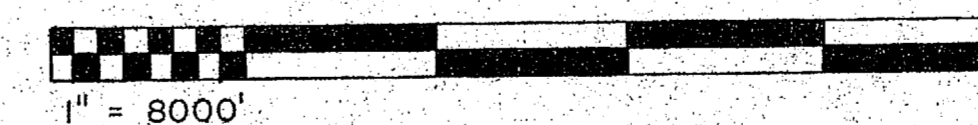


AREA MAP
SCALE: 1" = 400'

SCHEDULE OF DRAWINGS		
DRAWING NUMBER	NAVFAAC DWG. NUMBER	SHEET TITLE
T-1	4152620	TITLE SHEET
A-1	4152621	ARCHITECTURAL - FIRST FLOOR - DEMOLITION - NEW WORK
M-1	4152622	FIRST FLOOR - DEMOLITION - NEW WORK
M-2	4152623	FOURTH FLOOR - DEMOLITION - NEW WORK
M-3	4152624	DETAILS
M-4	4152625	EQUIPMENT SCHEDULES & LEGEND
M-5	4152626	CONTROLS
E-1	4152627	FIRST FLOOR - DEMOLITION
E-2	4152628	FIRST FLOOR - NEW WORK
E-3	4152629	BUILDING PLAN, SCHEDULES, AND PLATES
E-4	4152630	FOURTH FLOOR - DEMOLITION
E-5	4152631	FOURTH FLOOR - NEW WORK
E-6	4152632	TRANSFORMER VAULT

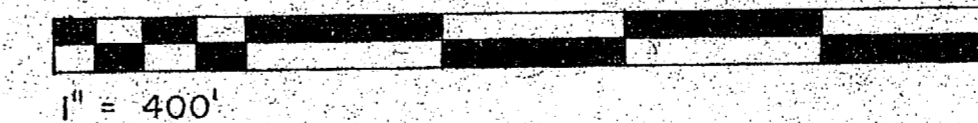
GRAPHIC SCALES

8000' 0' 8000' 16000' 24000' 32000'



1" = 8000'

400' 0' 400' 800' 1200' 1600'



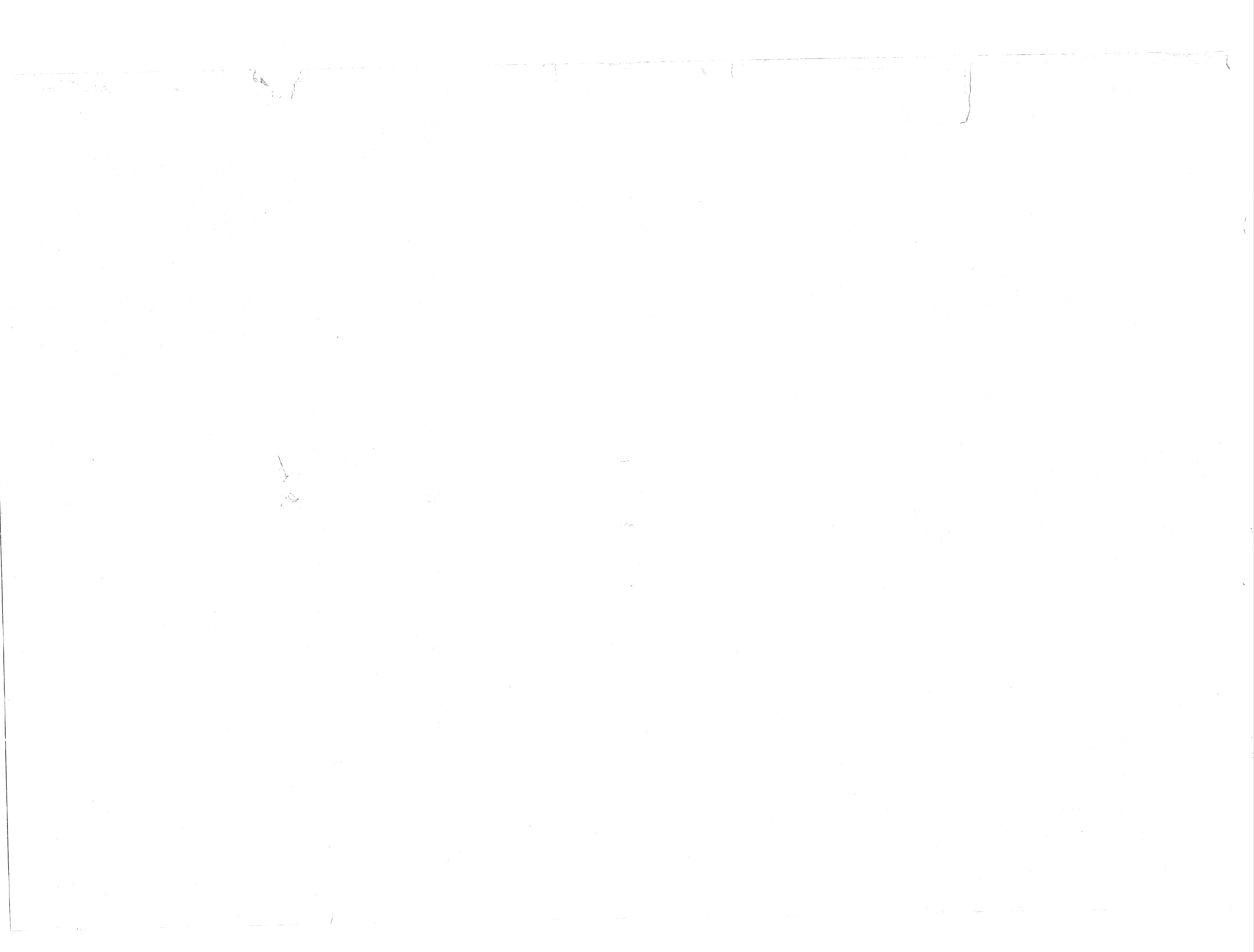
1" = 400'

10 5 0 10 20 30 40 50

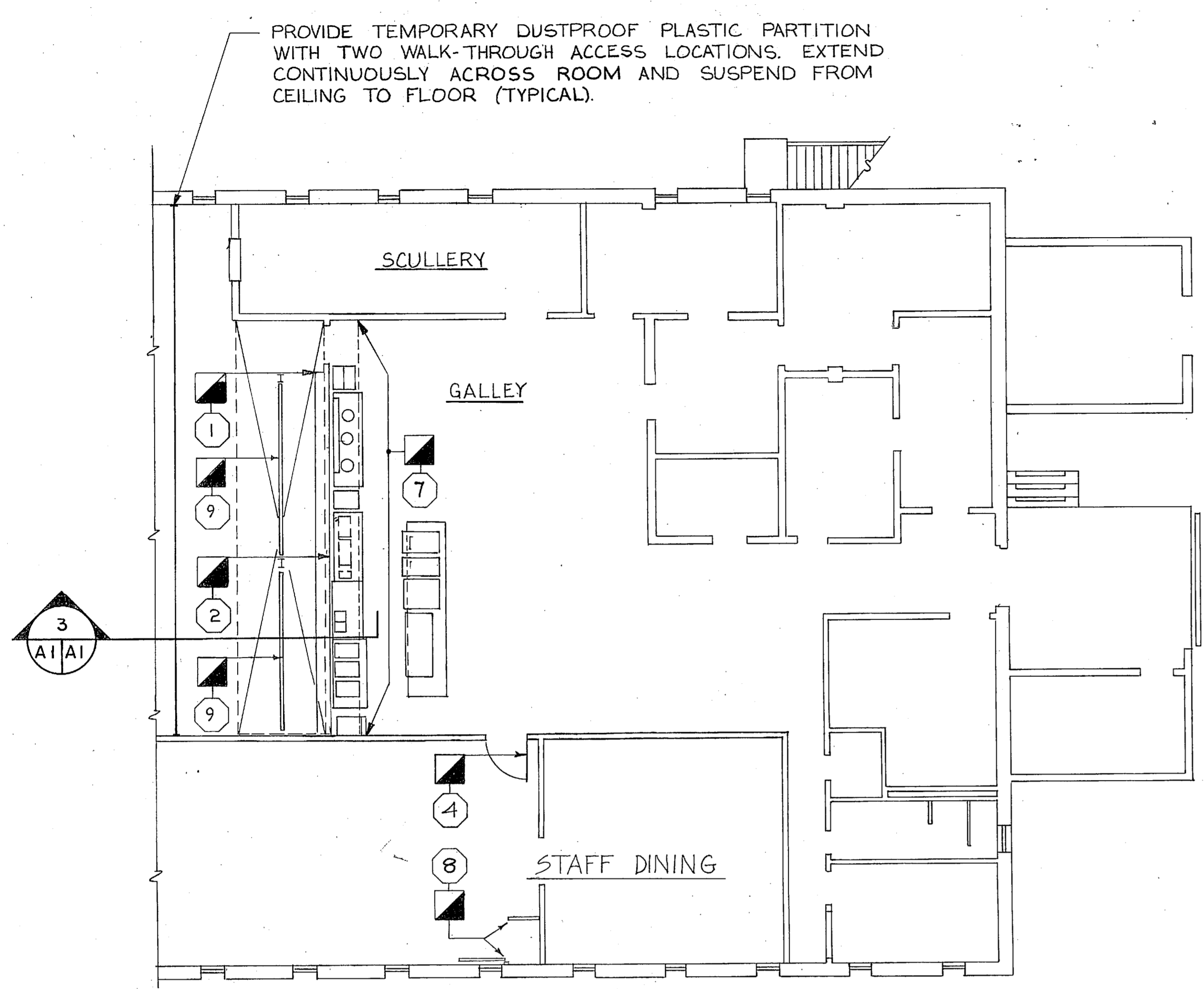


1" = 13 MILES

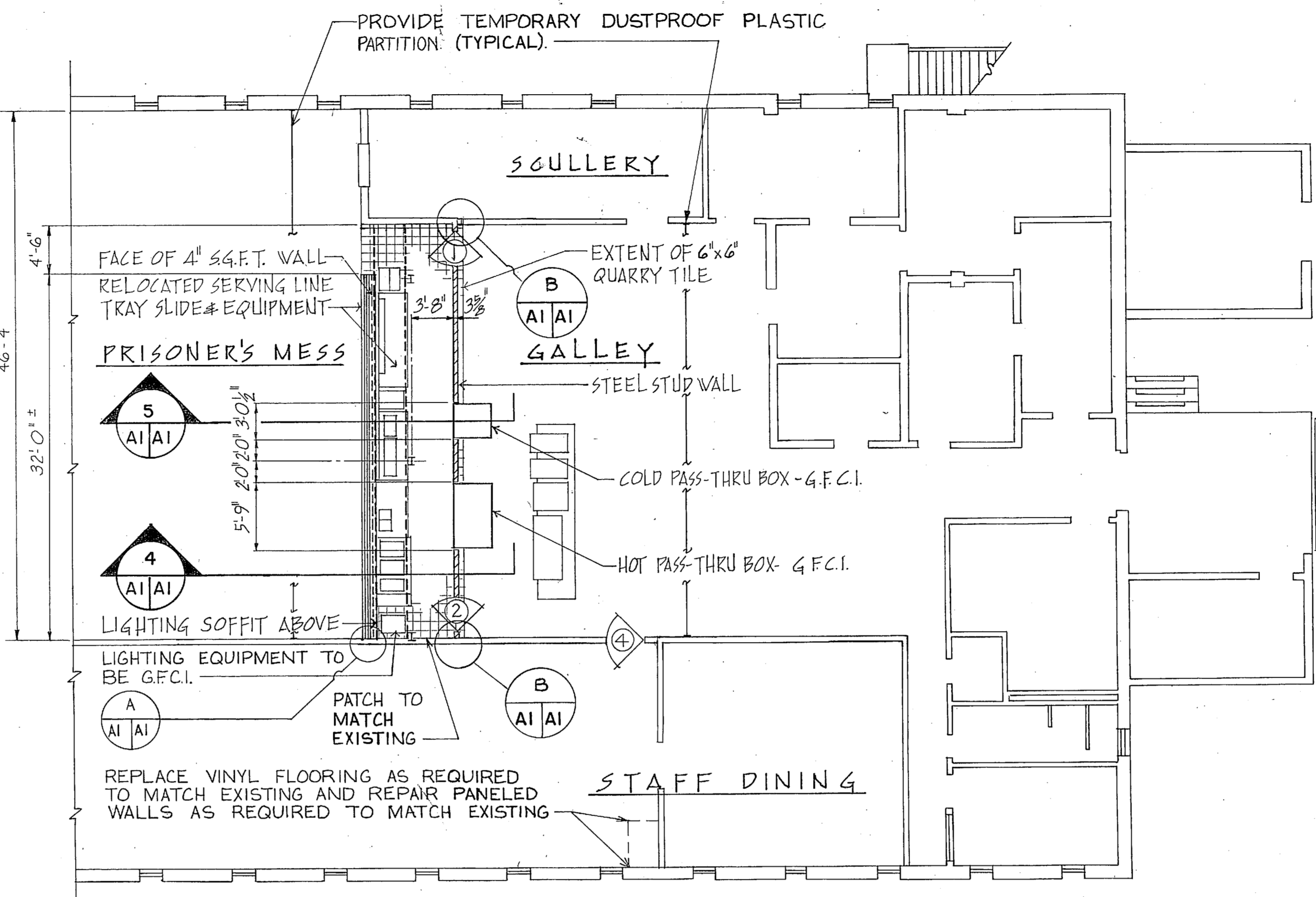
McKIM & CREED ENGINEERS PA. 243 N. FRONT ST. WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. R.S.C. DR. B.P.R. CHK. K.E.E. SUBMITTED BY: H. P. MCKIM, JR.		AIR CONDITIONING SYSTEM BUILDING 1041	
DESIGN DIR. <i>Mc</i>		TITLE SHEET	
APPROVED: PWD OR DIC. <i>Wilson</i>	DATE: 4-17-87	SIZE: F	CODE IDENT. NO.: 80091
SATISFACTORY TO:	DATE:	NAVFAAC DRAWING NO.: 4152620	CONSTR. CONTR. NO. N62470-86-B-5411
SCALE: NOTED		SPEC. 05-86-5411	SHEET 1 OF 13



REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED



PARTIAL 1ST FLOOR PLAN - GALLEY - DEMOLITION
SCALE: 1/8" = 1'-0"



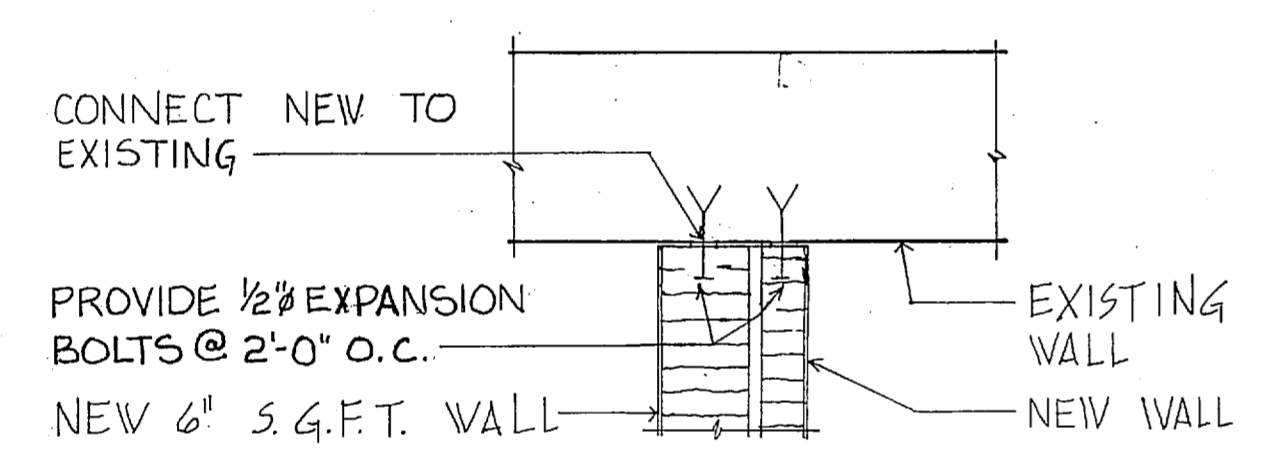
PARTIAL 1ST FLOOR PLAN - GALLEY - NEW WORK
SCALE: 1/8" = 1'-0"

- ### DEMOLITION NOTES
- SERVING LINE TRAY SLIDE & EQUIPMENT TO BE RELOCATED
 - 4" S.G.F.T. WALL TO BE REMOVED
 - CONCRETE PADS BELOW EQUIPMENT TO BE REMOVED
 - DOOR & FRAME TO BE REMOVED COMPLETE.
 - V.A.T FLOORING TO BE REMOVED
 - 2"8" WIDE STRIP OF SUSPENDED CEILING TO BE REMOVED FOR SUSPENDED LIGHTING SOFFIT.
 - REMOVE EXISTING LATHE AND PLASTER LIGHTING SOFFIT COMPLETE.
 - REMOVE EXISTING MECHANICAL CLOSET (WOOD FRAME & PANELING CONSTRUCTION).
 - WOOD & WROUGHT IRON PARTITIONS TO BE REMOVED

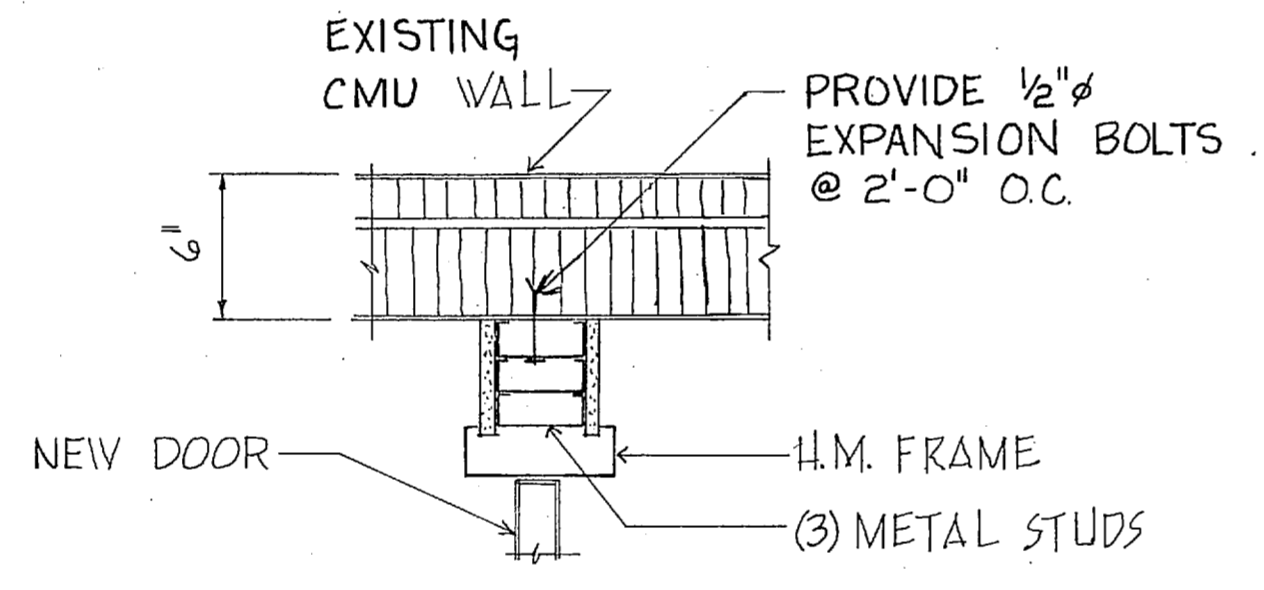
- ### LEGEND
- G.F.C.I. GOVERNMENT FURNISHED; CONTRACTOR INSTALLED
 - S.C.P.L. SOLID CORE PLASTIC LAMINATE
 - H.M. HOLLOW METAL
 - REMOVE AS INDICATED
 - S.C.W.V. SOLID CORE WOOD VENEER
 - S.G.F.T. STRUCTURAL GLAZED FACING TILE
 - V.A.T. VINYL ASBESTOS TILE
 - FIELD TYPE FIELD WELD
 - W.W.F. WELDED WIRE FABRIC
 - CMU CONCRETE MASONRY UNIT

NEW DOOR SCHEDULE

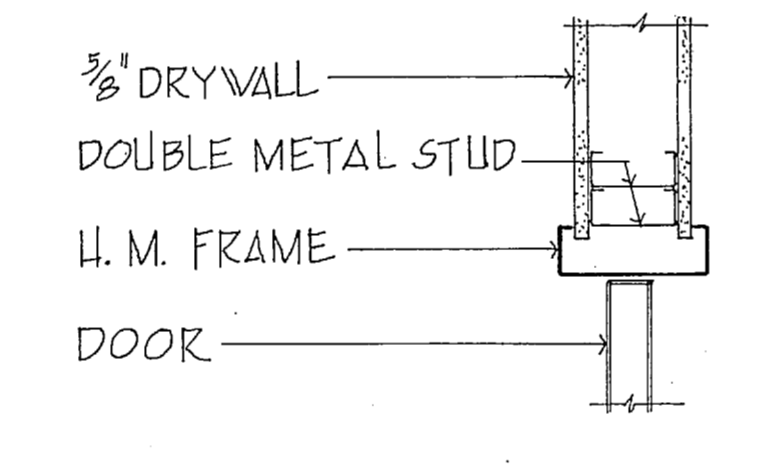
NO.	WIDTH	HEIGHT	THKN'S.	DOOR	FRAME	DETAIL	HARDWARE
1	3'-0"	7'-0"	1 3/4"	S.C.P.L.	H.M.	C/AI	HW-1
2	3'-0"	7'-0"	1 3/4"	S.C.P.L.	H.M.	C/AI	HW-1
3	2'-3"	7'-0"	1 3/4"	S.C.W.V.	H.M.	C/AI	HW-2
4	3'-0"	7'-0"	1 3/4"	S.C.P.L.	H.M.	C/AI	HW-1



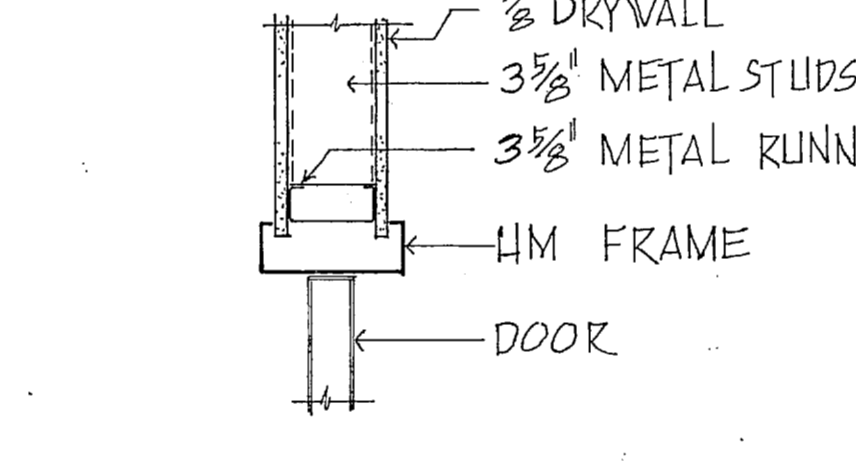
A DETAIL - NEW WORK
SCALE: 1 1/2" = 1'-0"



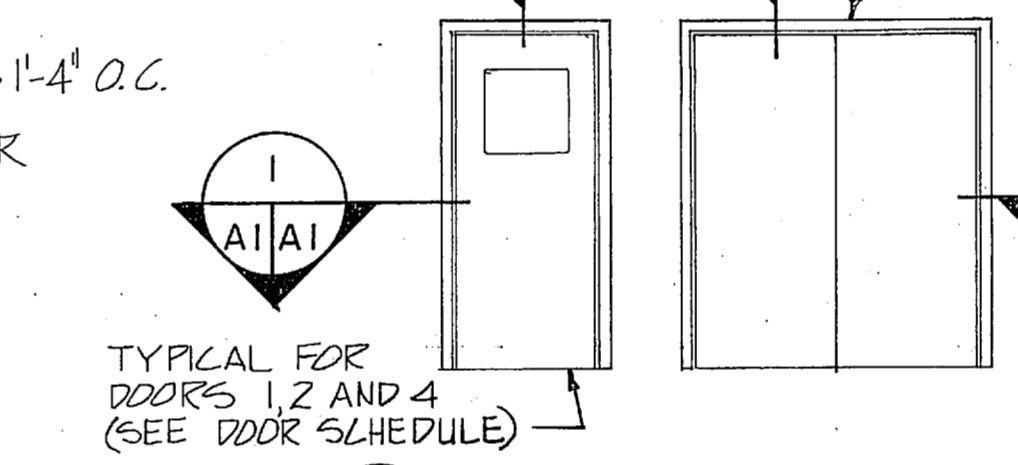
B DETAIL - NEW WORK
SCALE: 1 1/2" = 1'-0"



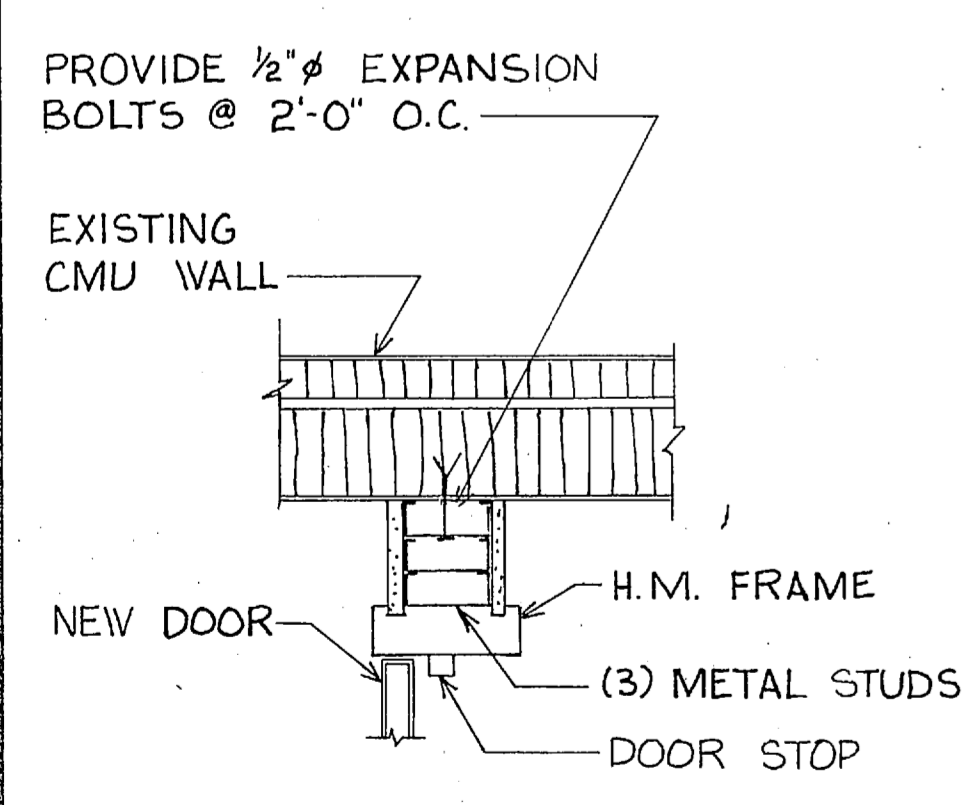
1 JAMB - NEW WORK
SCALE: 1 1/2" = 1'-0"



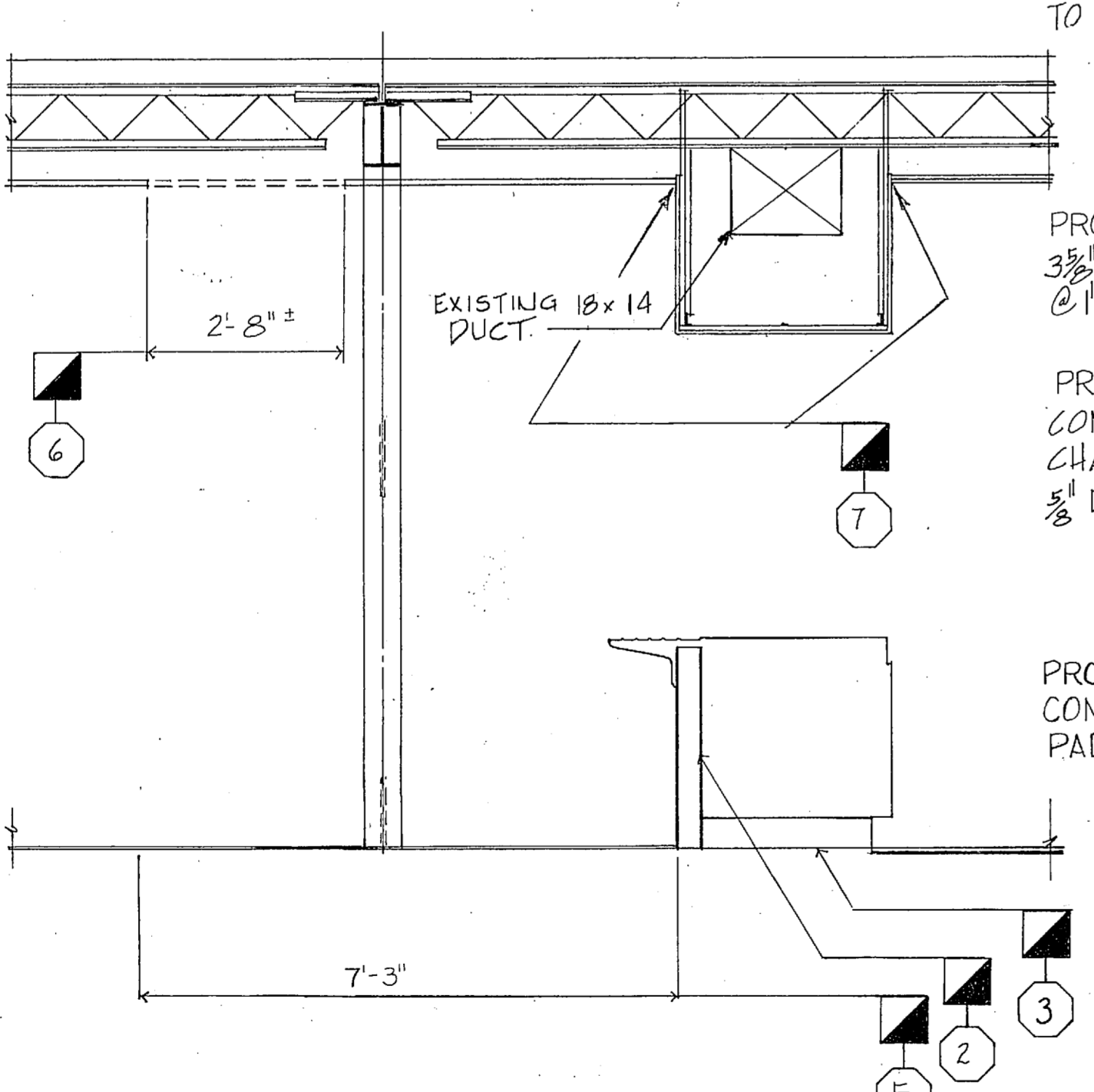
2 HEAD - NEW WORK
SCALE: 1 1/2" = 1'-0"



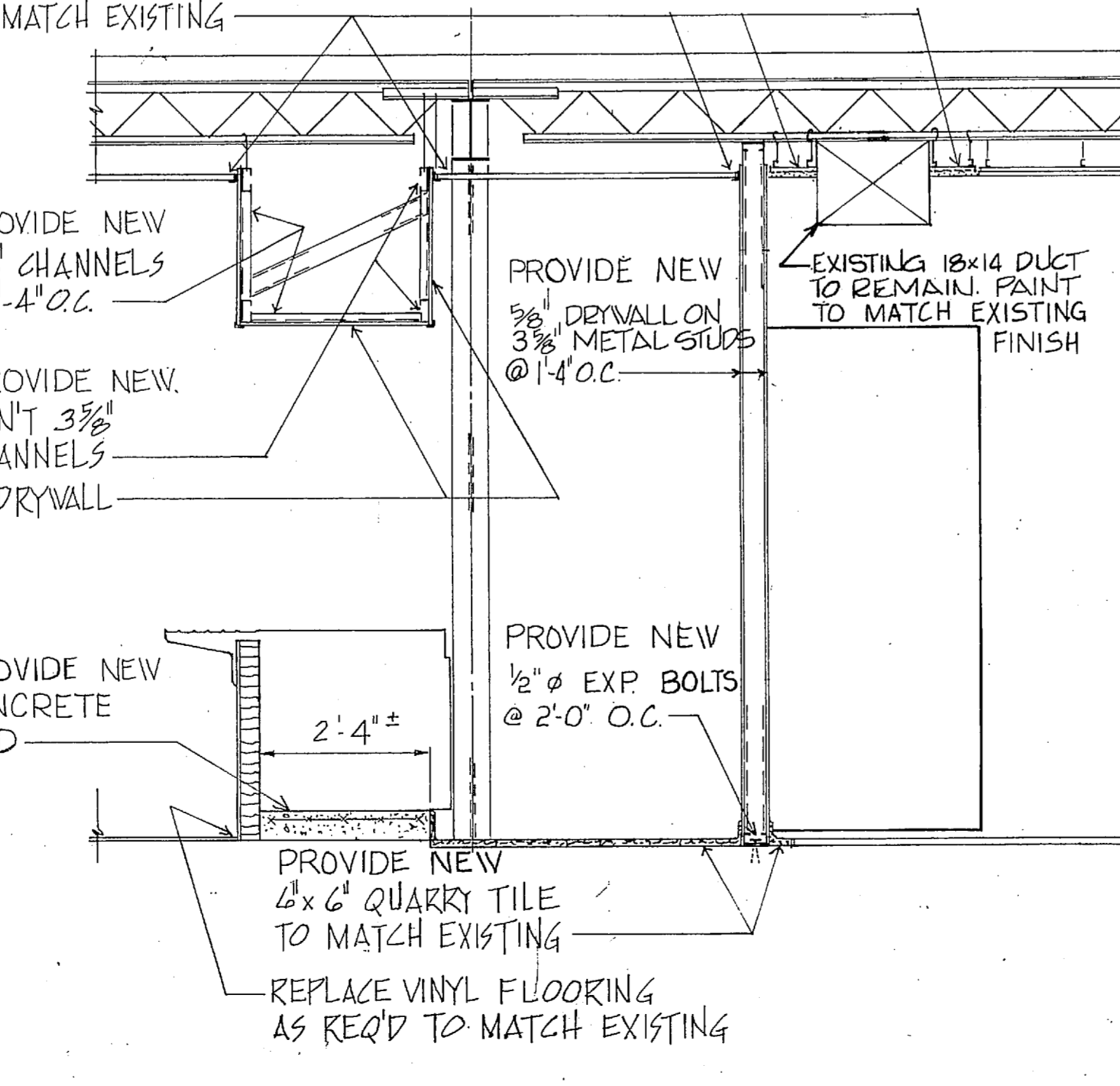
C DOOR TYPES
NOT TO SCALE



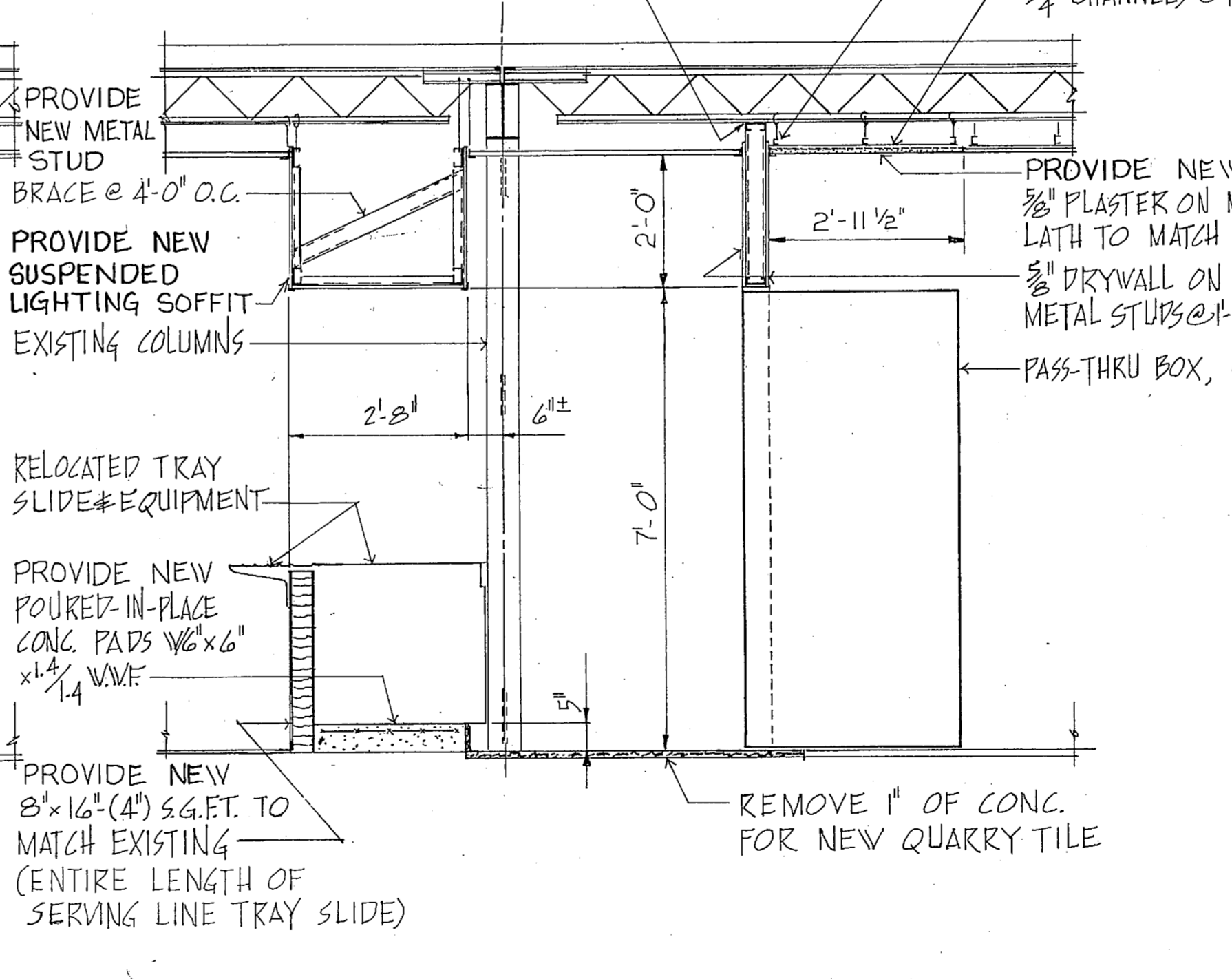
D DETAIL - NEW WORK
NO SCALE



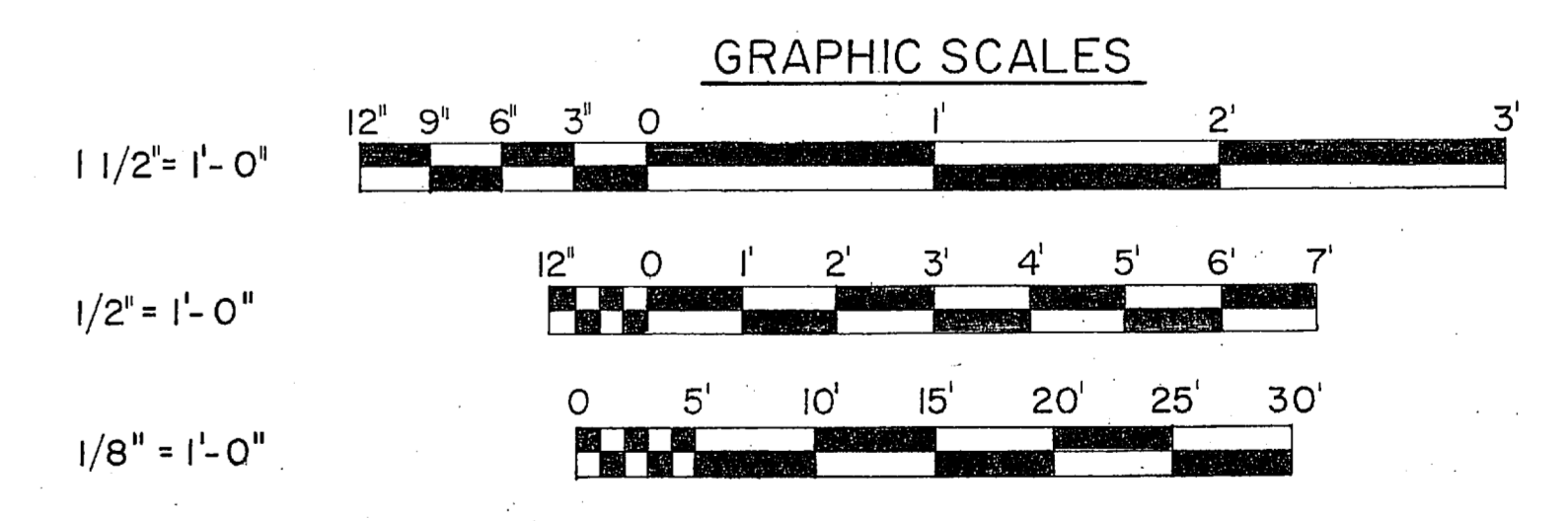
3 EXISTING SECTION - DEMOLITION
SCALE: 1/2" = 1'-0"



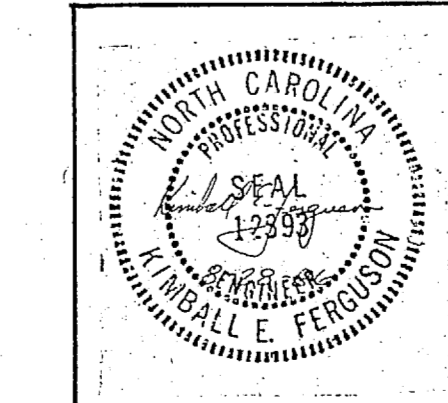
4 SECTION - NEW WORK
SCALE: 1/2" = 1'-0"



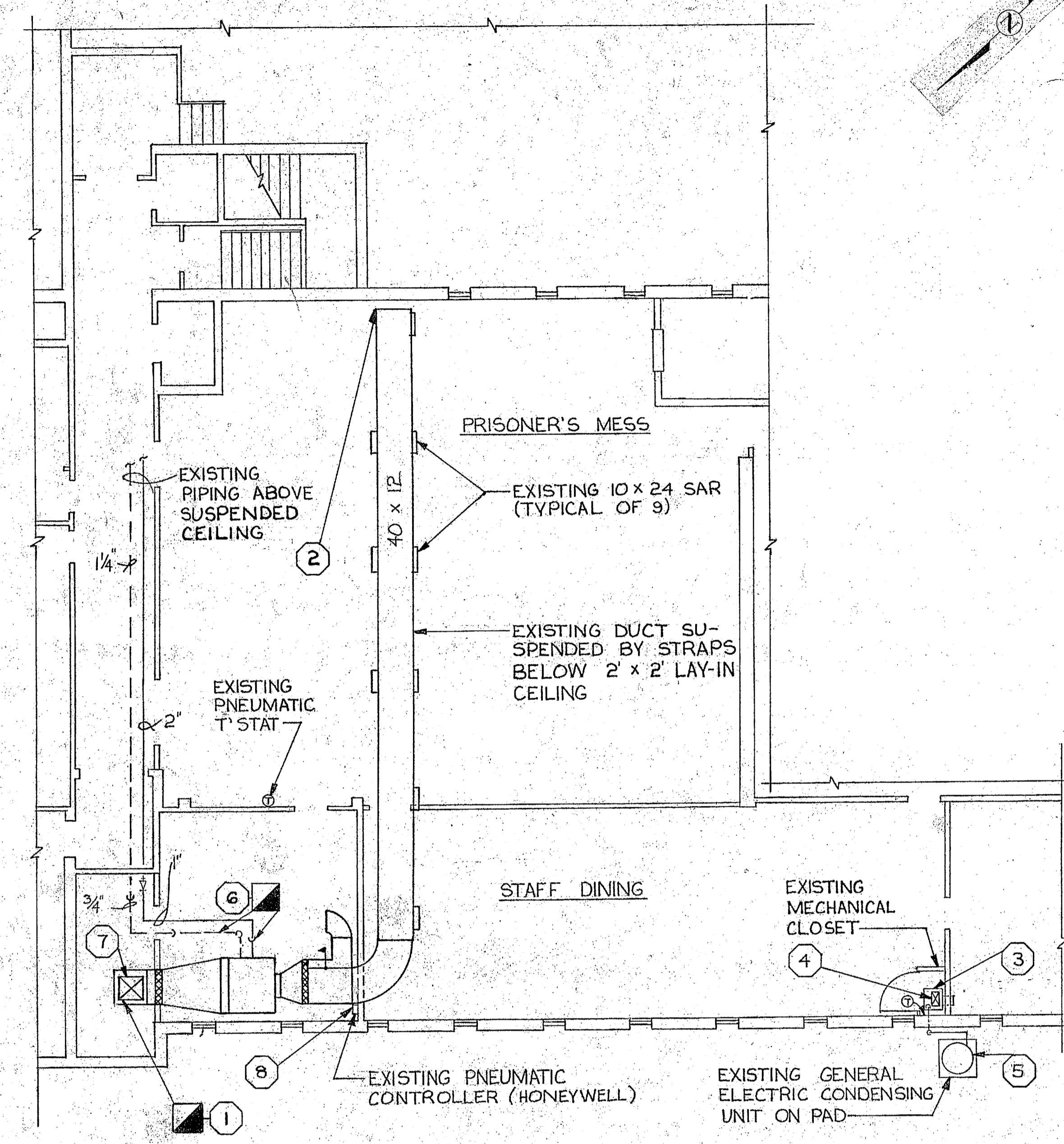
5 SECTION - NEW WORK
SCALE: 1/2" = 1'-0"



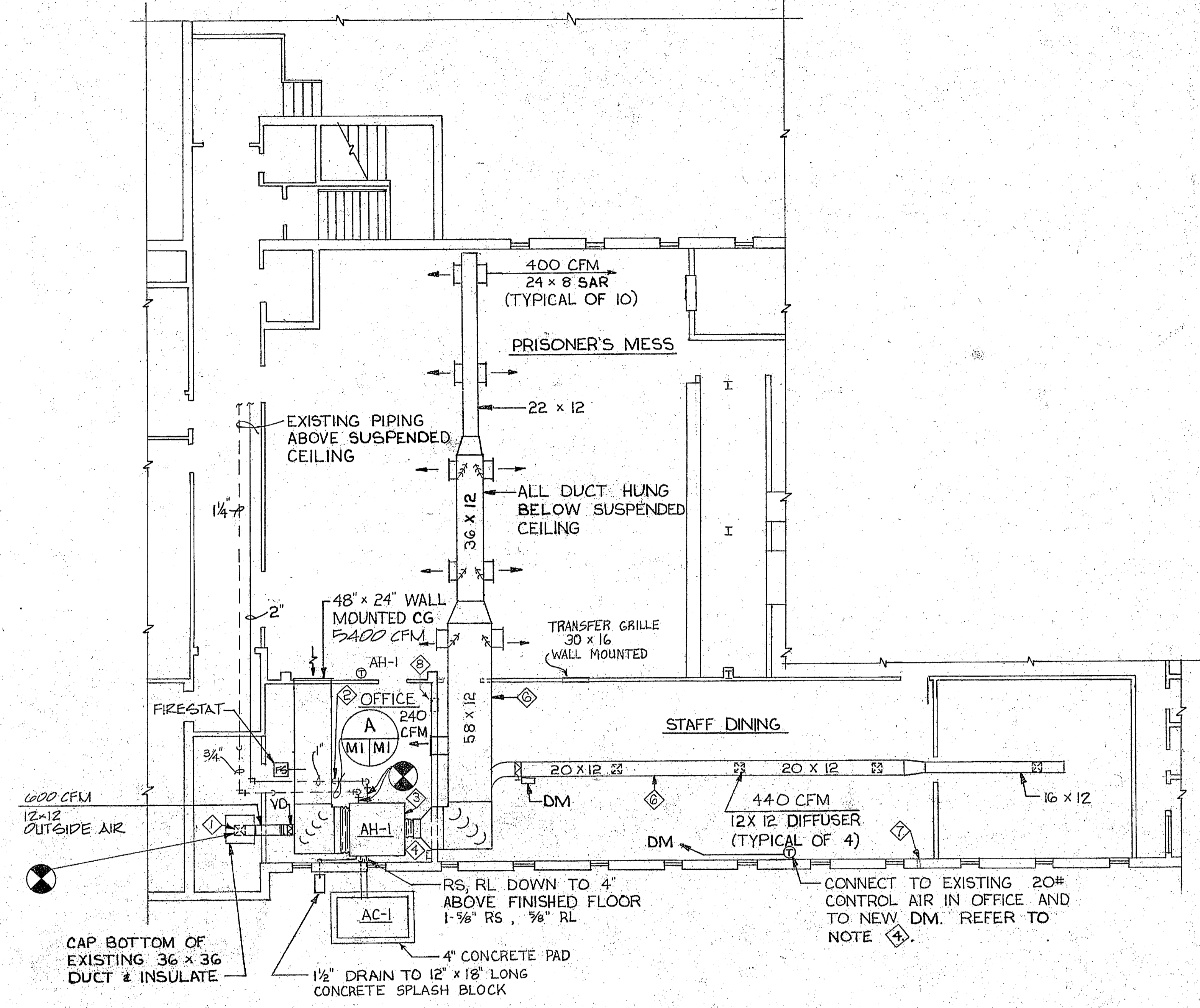
McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. S.A.B. DR. M.S.G. CHK. K.E.F. SUBMITTED BY: H. P. McKim, JR. DESIGN DIR. J.E.L. APPROVED: P.W.O. OR DIC. DATE: <i>Moore 4-17-87</i> SATISFACTORY TO:		BUILDING 1041 AIR CONDITIONING SYSTEM ARCHITECTURAL - FIRST FLOOR DEMOLITION - NEW WORK NAVFAC DRAWING NO. 4152621 CONSTR. CONTR. NO. N62470-86-B-5411 SCALE: NOTED SPEC. 05-86-5411 SHEET 2 OF 13	



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



STAFF & PRISONER MESS AREA - HVAC - DEMOLITION
SCALE: 1/8" = 1'-0"



STAFF & PRISONER MESS AREA - HVAC - NEW WORK
SCALE: 1/8" = 1'-0"

GENERAL NOTES
1. SEE SHEET M-4 FOR LEGEND.
2. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.

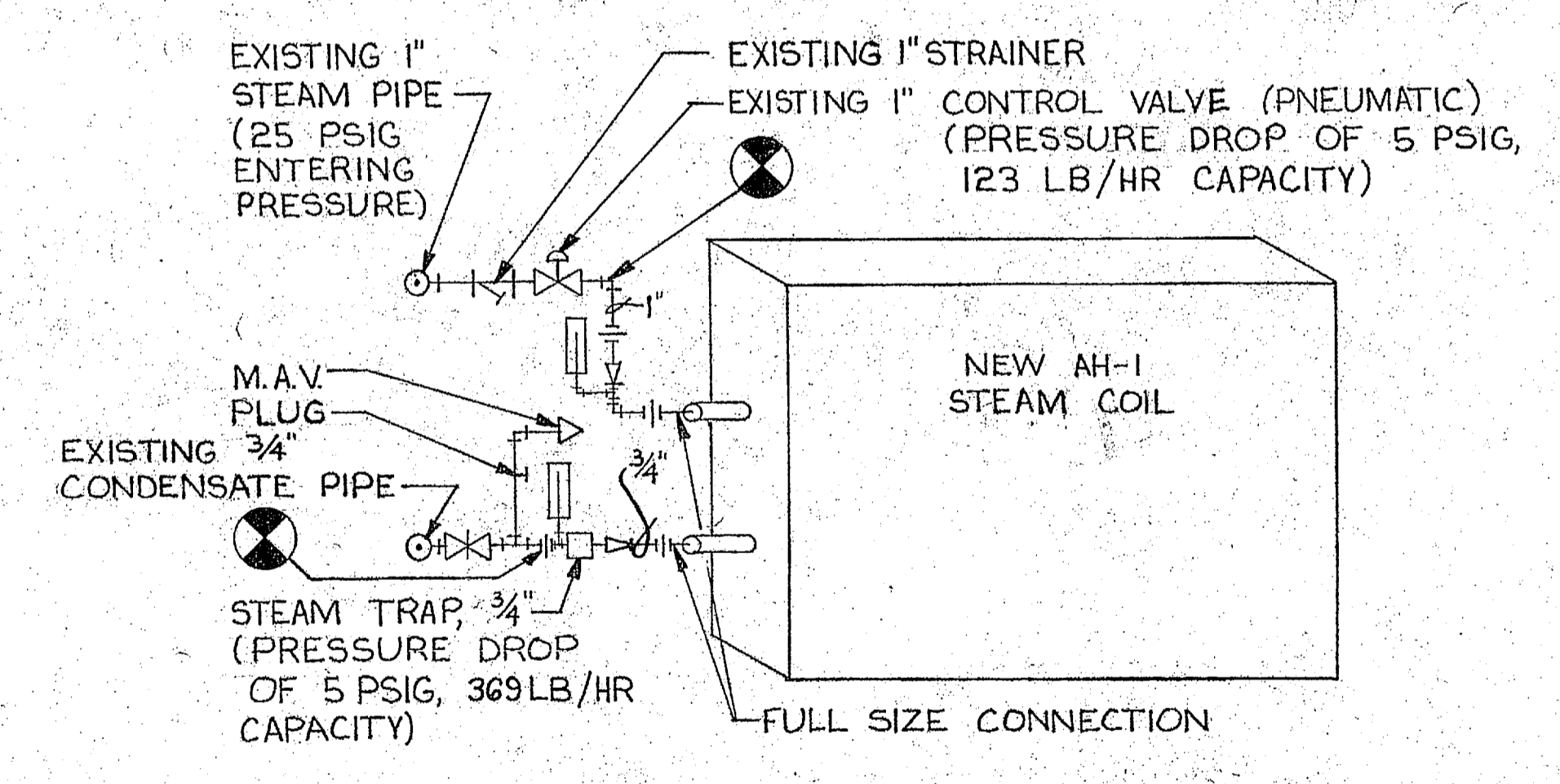
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

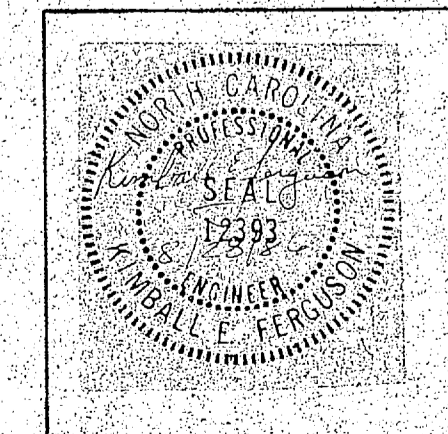
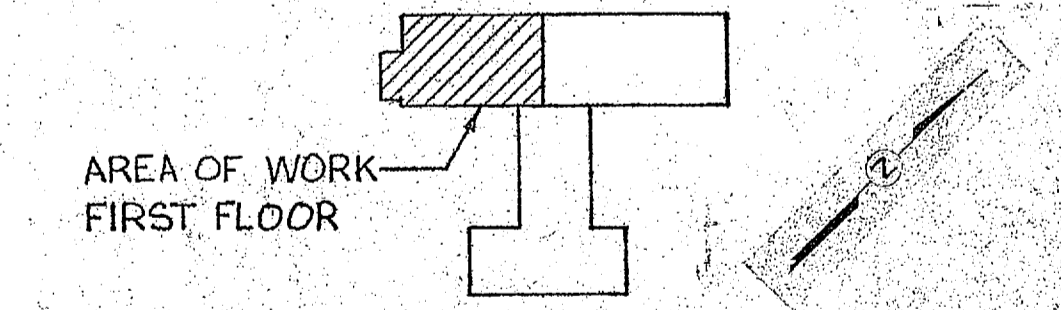
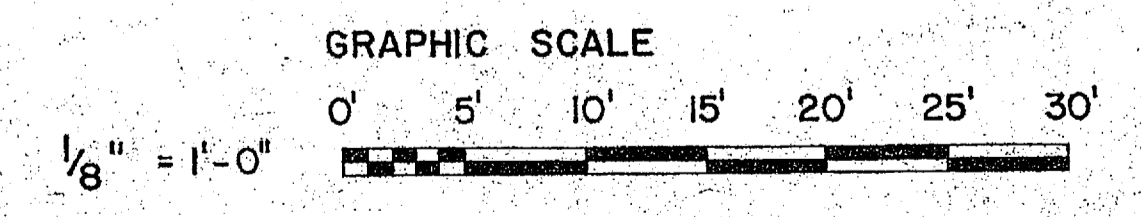
- ① REMOVE EXISTING AIR HANDLING UNIT WITH STEAM HEAT COIL. UNIT IS SUSPENDED FROM CEILING JOISTS.
- ② REMOVE EXISTING DUCTWORK AND SUPPLY AIR GRILLES.
- ③ REMOVE EXISTING AIR HANDLING UNIT, DRAIN PIPING AND CONTROLS.
- ④ REMOVE EXISTING SUPPLY DUCT (4' @ 16 x 12).
- ⑤ REMOVE EXISTING G.E. CONDENSING UNIT AND REFRIGERANT LINES.
- ⑥ REMOVE EXISTING INSULATION FROM STEAM SUPPLY & CONDENSATE UP TO COIL CONNECTION.
- ⑦ REMOVE EXISTING FRESH AIR DUCT TO APPROXIMATELY 6" BELOW CEILING.
- ⑧ REMOVE EXISTING HONEYWELL PNEUMATIC CONTROLLER, 20# AIR SUPPLY TO BE REUSED FOR NEW HVAC SYSTEM CONTROLS.

NEW WORK NOTES

- ① CONNECT NEW 12 x 12 FRESH AIR DUCT TO EXISTING 36 x 36 DUCT THROUGH ROOF TO GOOSENECK.
- ② PROVIDE NEW INSULATION ON EXISTING STEAM PIPING AS DESIGNATED FROM DEMOLITION REMOVAL. (REFER TO NOTE ⑥).
- ③ AH-1 TO BE SUSPENDED FROM STEEL JOISTS WITH 3/8" THREADED RODS AND STEEL CHANNEL (3/4" x 2" x 3/16" MINIMUM DIMENSIONS), HANGERS, AND VIBRATION ISOLATORS (MINIMUM OF 4 HANGER TYPE REQUIRED). RODS SHALL EXTEND FROM JOIST SUPPORT TO CHANNEL.
- ④ EXISTING 20# AIR SUPPLY FOR PNEUMATIC CONTROLS TO BE REUSED WITH NEW CONTROL SYSTEM.
- ⑤ PROVIDE NEW AIR HANDLING UNIT, AH-1, AND CONDENSING UNIT, AC-1, IN ACCORDANCE WITH SCHEDULE REQUIREMENTS.
- ⑥ PROVIDE NEW DUCTWORK TO SERVE OFFICE, PRISONER'S MESS, AND STAFF DINING.
- ⑦ PATCH HOLE FOR REFRIGERANT AND DRAIN LINES.
- ⑧ PROVIDE 16 x 8" WALL MOUNTED TRANSFER GRILLE.



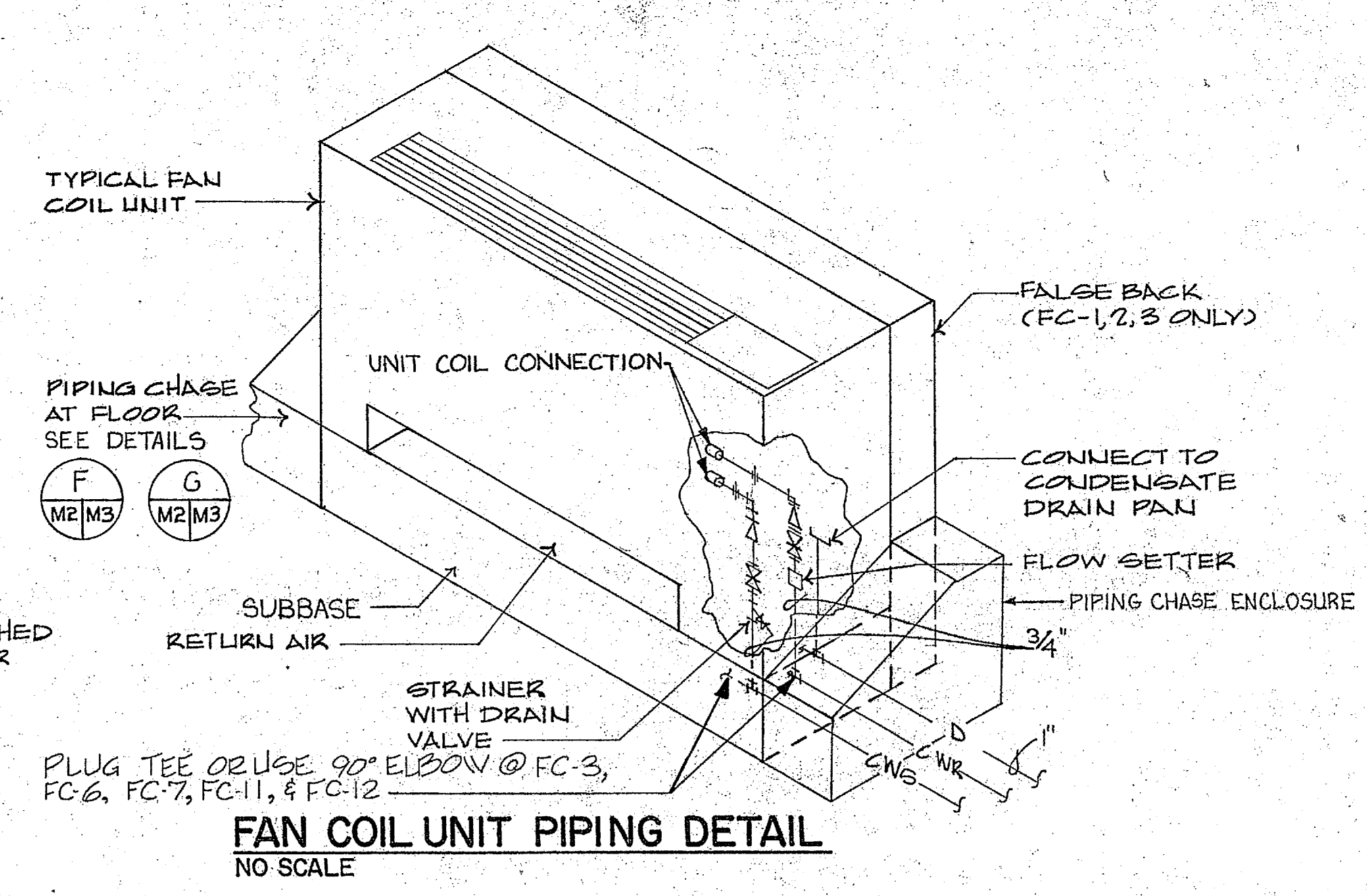
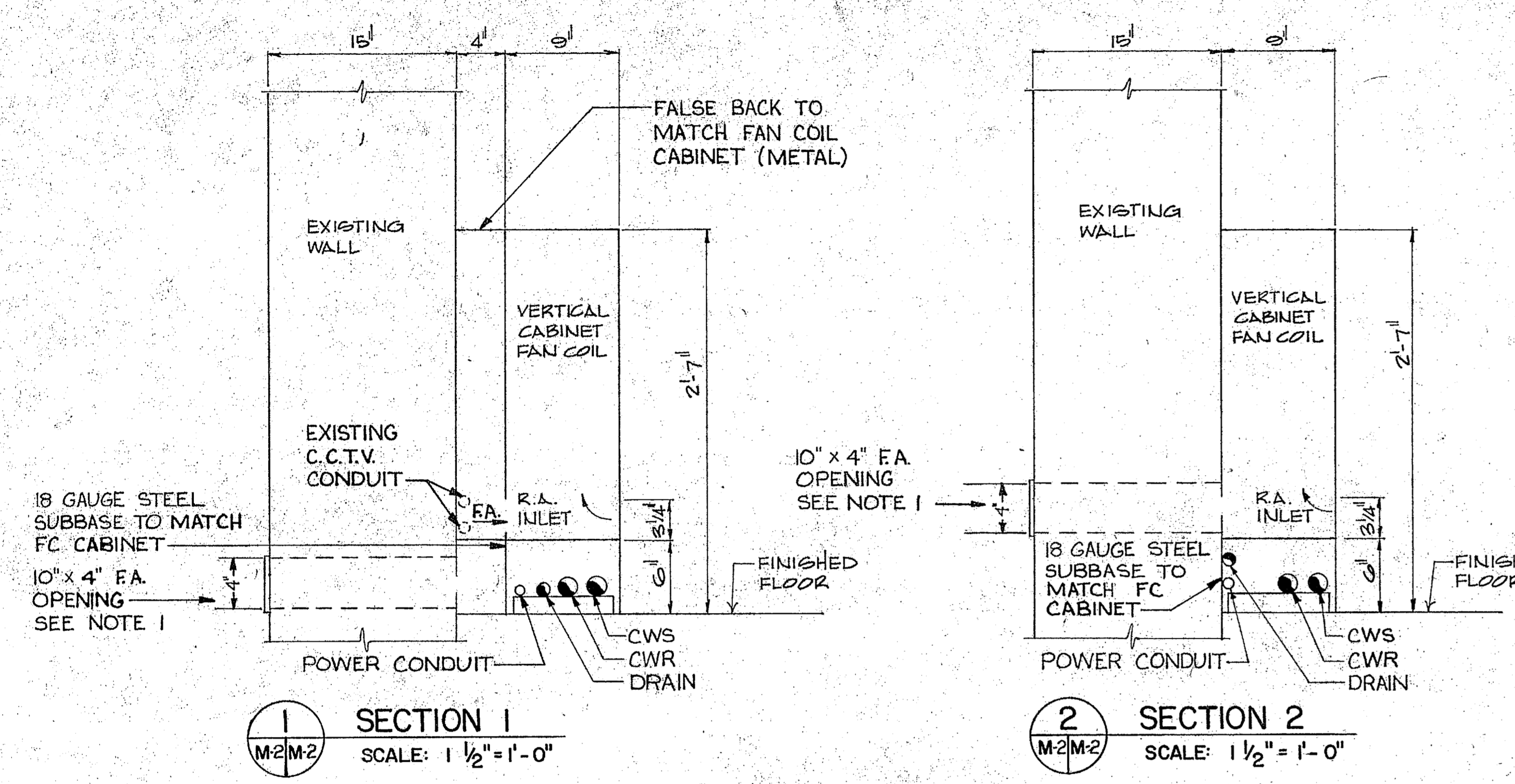
DETAIL - NEW WORK
NO SCALE
NOTE: THERMOMETERS SHALL HAVE A RANGE OF 0° TO 250°F



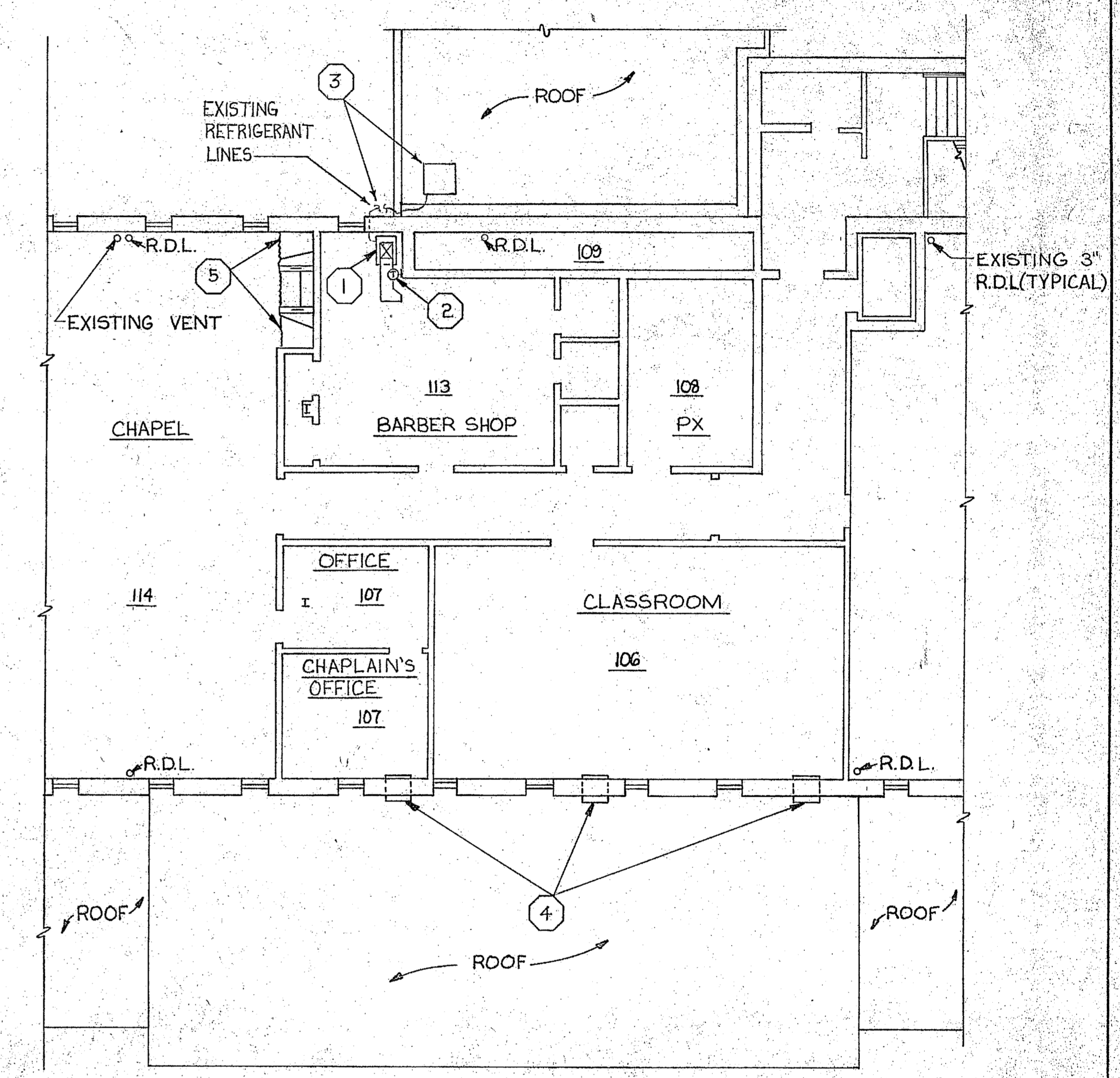
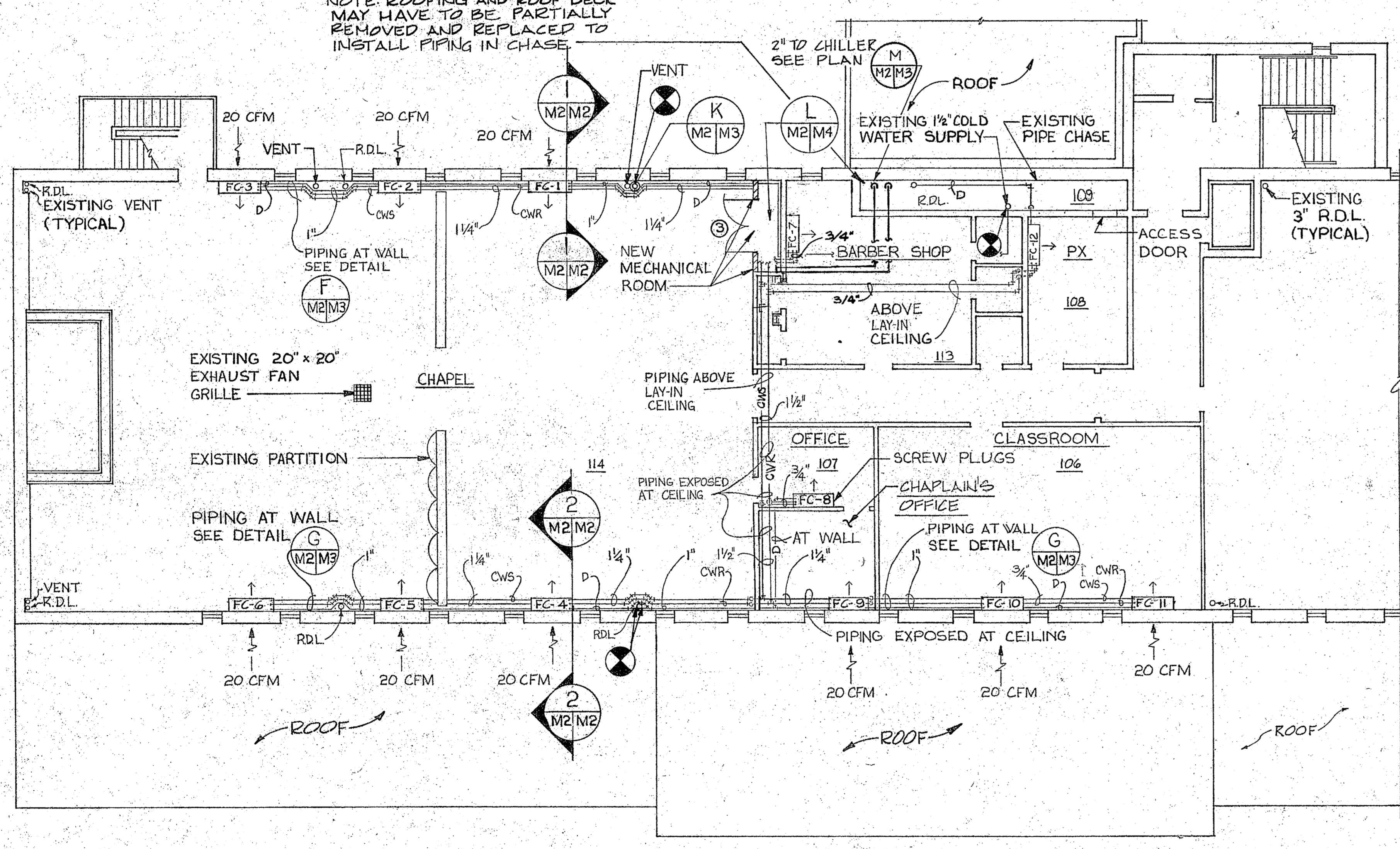
McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. R.S.C.	DR. A.L.F.	BUILDING 1041 AIR CONDITIONING SYSTEM	
CHK. K.E.F.	SUBMITTED BY: H. P. MCKIM, JR.	FIRST FLOOR - DEMOLITION - NEW WORK	
APPROVED: P.W. OR DICC	DATE: 4-17-87	SIZE: F	CODE IDENT. NO.: 80091
SATISFACTORY TO:	DATE:	NAVFAC DRAWING NO.: 4152622	CONSTR. CONTR. NO.: N62470-86-B-541
SCALE: NOTED		SPEC: 05-86-541	SHEET: 3 OF 13



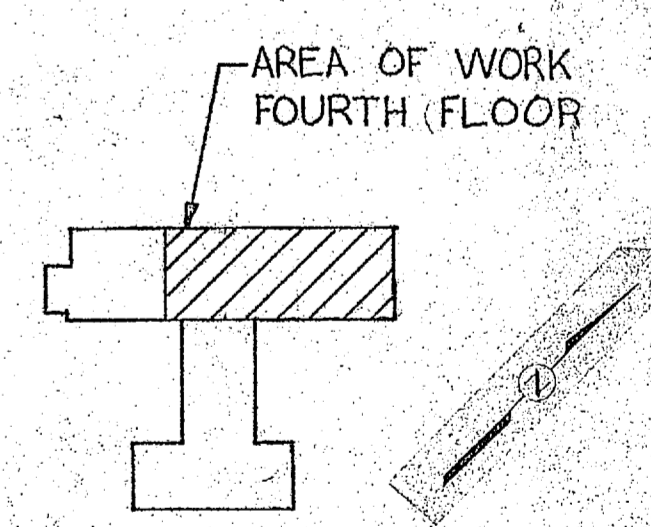
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



NOTE: ROOFING AND ROOF DECK MAY HAVE TO BE PARTIALLY REMOVED AND REPLACED TO INSTALL PIPING IN CHASE

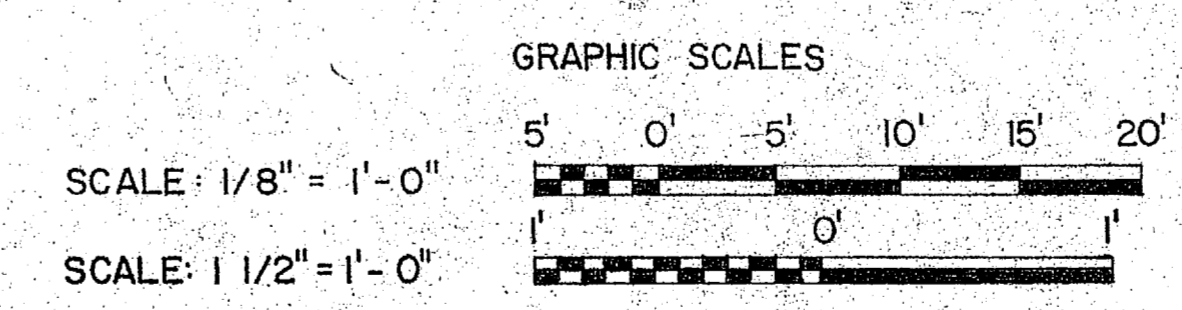


- DEMOLITION NOTES**
- 1 REMOVE EXISTING AIR HANDLING UNIT AND SUPPLY AIR DUCTWORK (DUCT APPROXIMATELY 8' @ 12 X 16)
 - 2 REMOVE EXISTING THERMOSTAT AND CONTROL WIRING.
 - 3 REMOVE EXISTING CONDENSING UNIT LOCATED ON SECOND FLOOR ROOF (SOUTH SIDE OF BUILDING). REMOVE REFRIGERANT LINES AND PATCH HOLE IN WALL TO MATCH EXISTING FINISH.
 - 4 REMOVE EXISTING ROOM AIR CONDITIONING UNITS (3) MOUNTED THROUGH THE WALL AND PATCH WALL OPENING TO MATCH EXISTING INTERIOR AND EXTERIOR FINISHES.
 - 5 REMOVE KNEELERS, BENCH, CURTAINS, AND BOTH INTERIOR PARTITIONS FROM CONFESIONAL BOOTHS LOCATED IN THE CHAPEL.

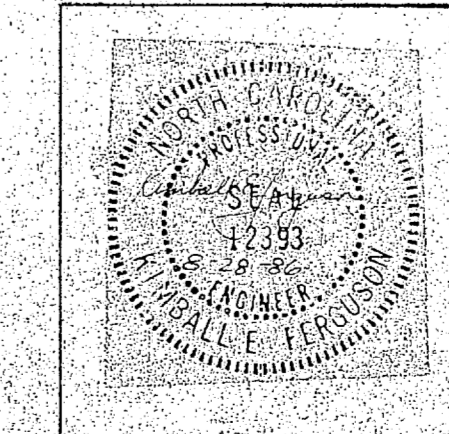


NEW WORK NOTES

1. FRESH AIR WALL OPENINGS SHALL BE 10" X 4" NOMINAL SIZE AND COVERED WITH ALUMINUM WALL BOX TYPE DAMPER WITH BIRD SCREENS.

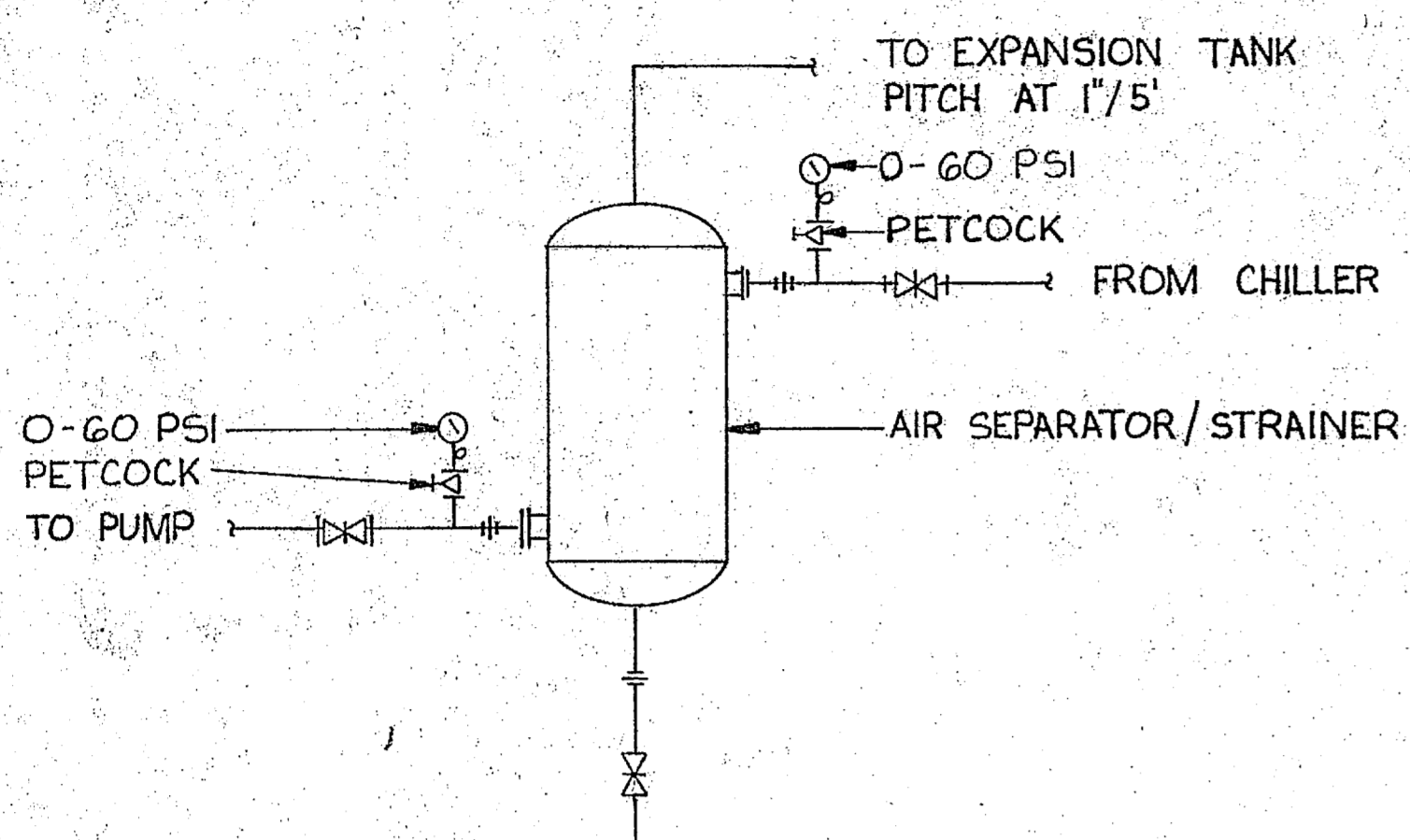


NOTE: SEE SHEET M-4 FOR LEGEND

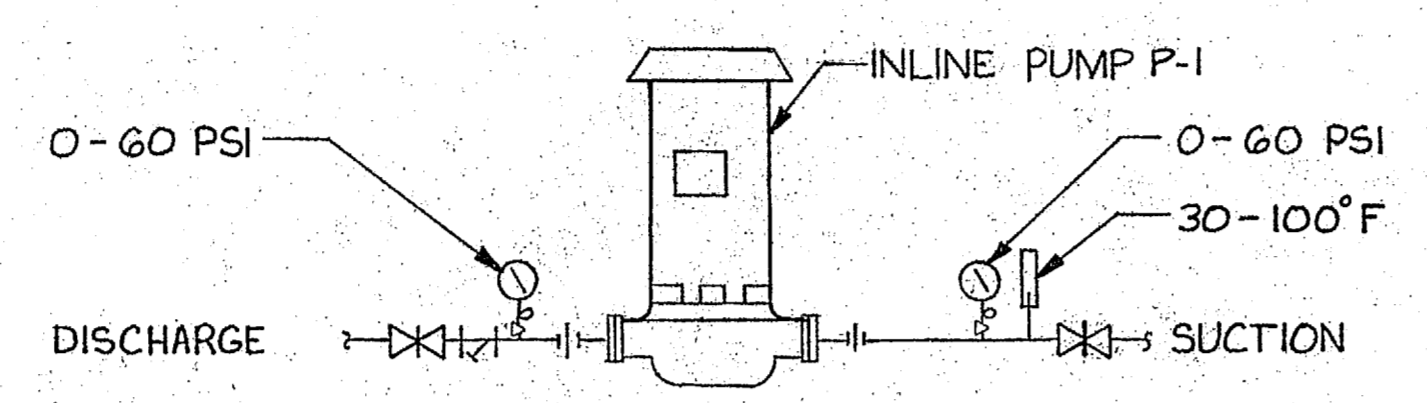


M-2	
McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. R.S.C. DR. S.M.M., S.D.C., A.L.F. CHK. K.E.F. SUBMITTED BY: H.P. MCKIM, JR. DESIGN DIR. <i>H.P. McKim, Jr.</i> APPROVED: P.W.D. OR DIC. DATE <i>10/17/87</i> SATISFACTORY TO: DATE	
BUILDING 1041 AIR CONDITIONING SYSTEM FOURTH FLOOR-DEMOLITION-NEW WORK	
SIZE: F CORE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 4152623 CONSTR. CONTR. NO. N62470-86-B-5417 SCALE: NOTED SPEC. 05-86-5411 SHEET 4 OF 15

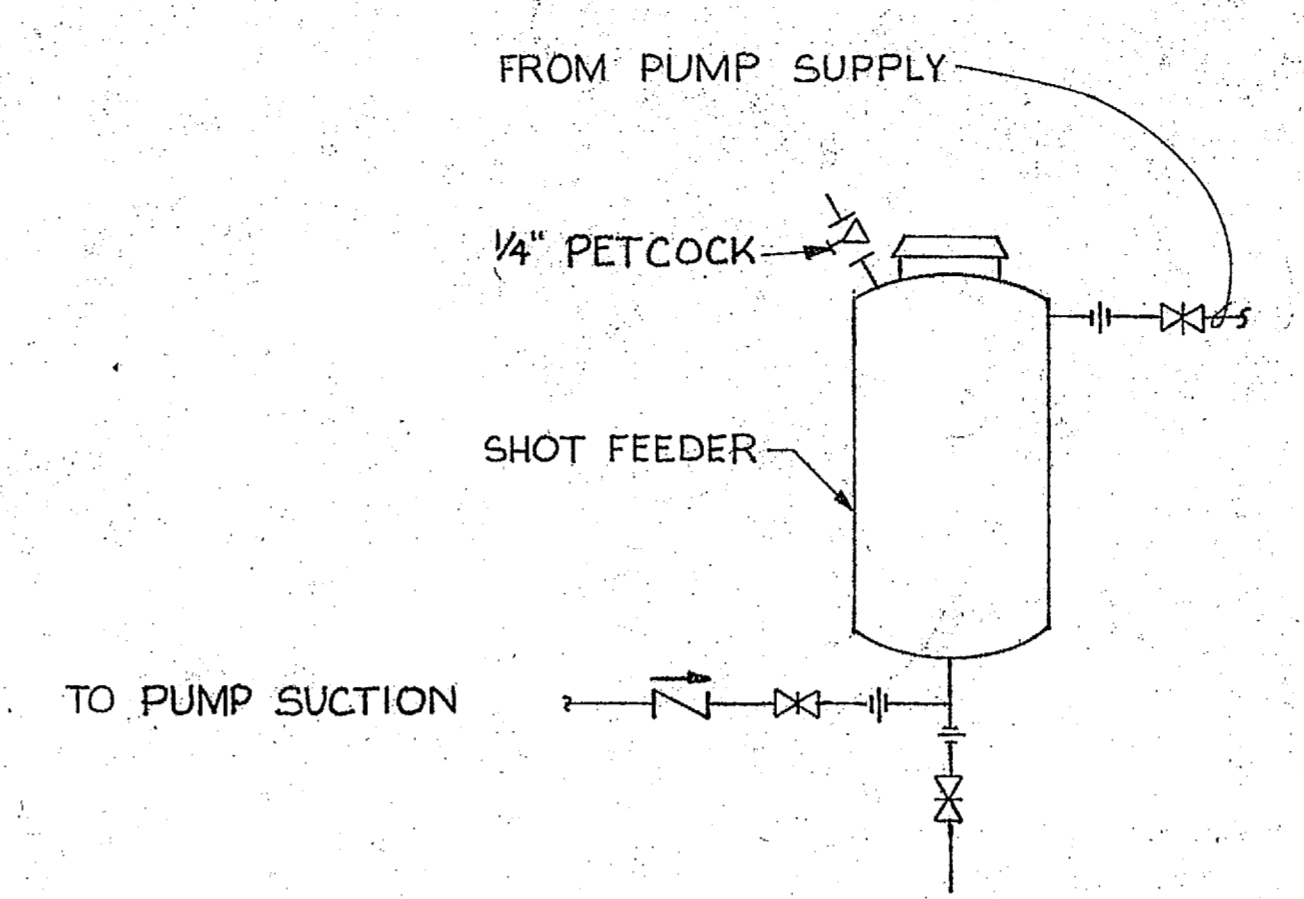
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



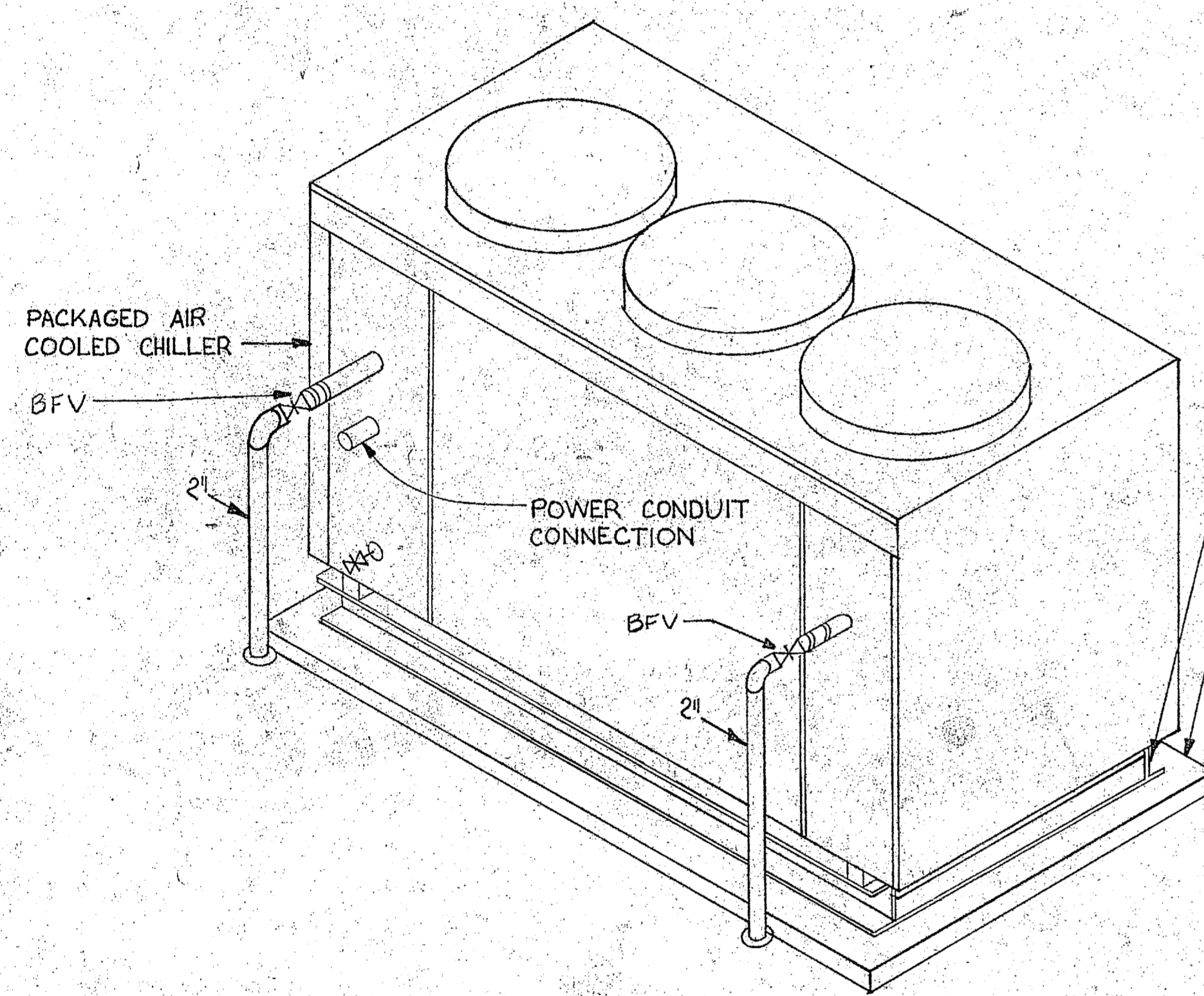
A DETAIL A
M4/M3 NO SCALE



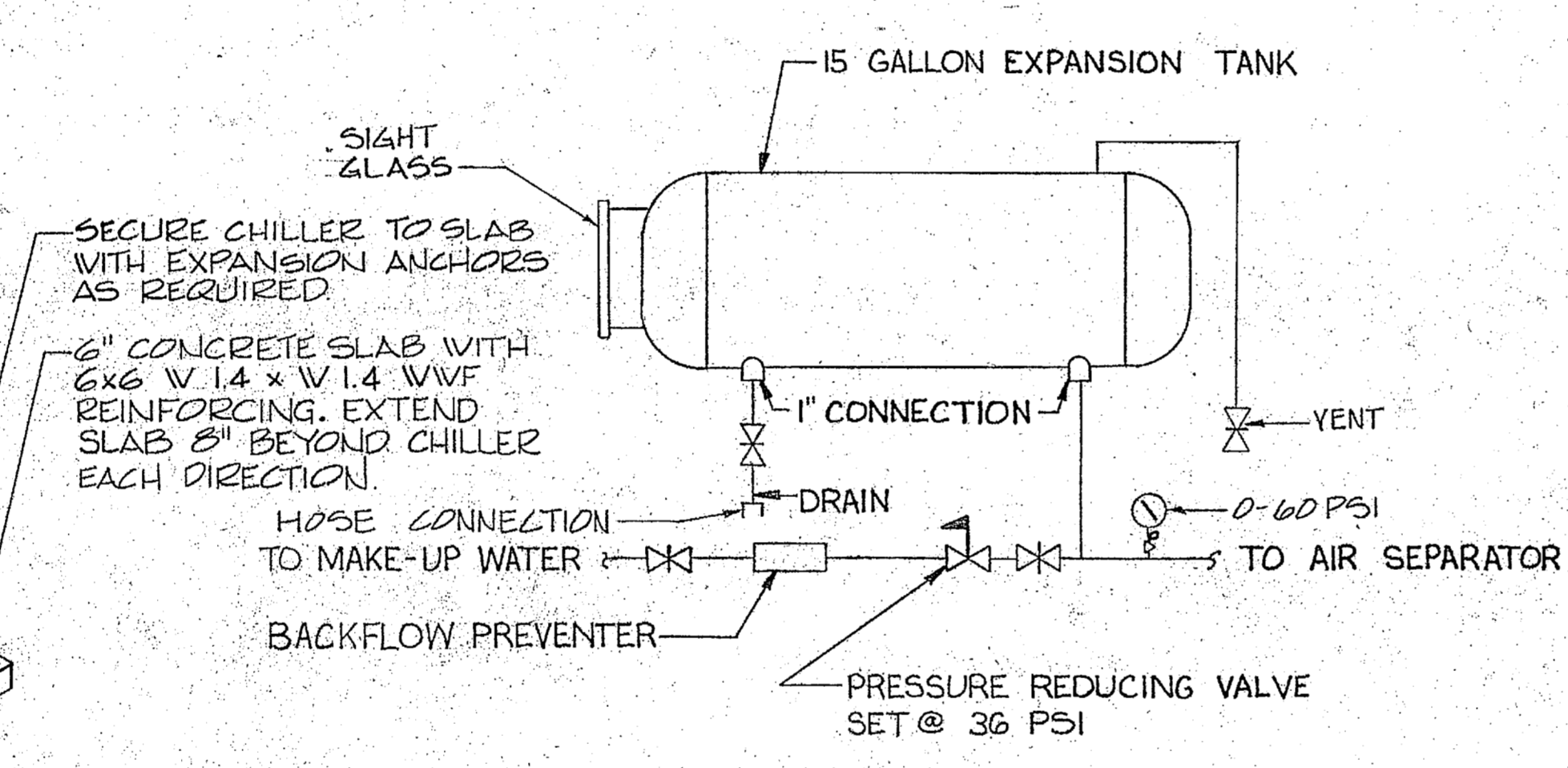
B DETAIL B
M4/M3 NO SCALE



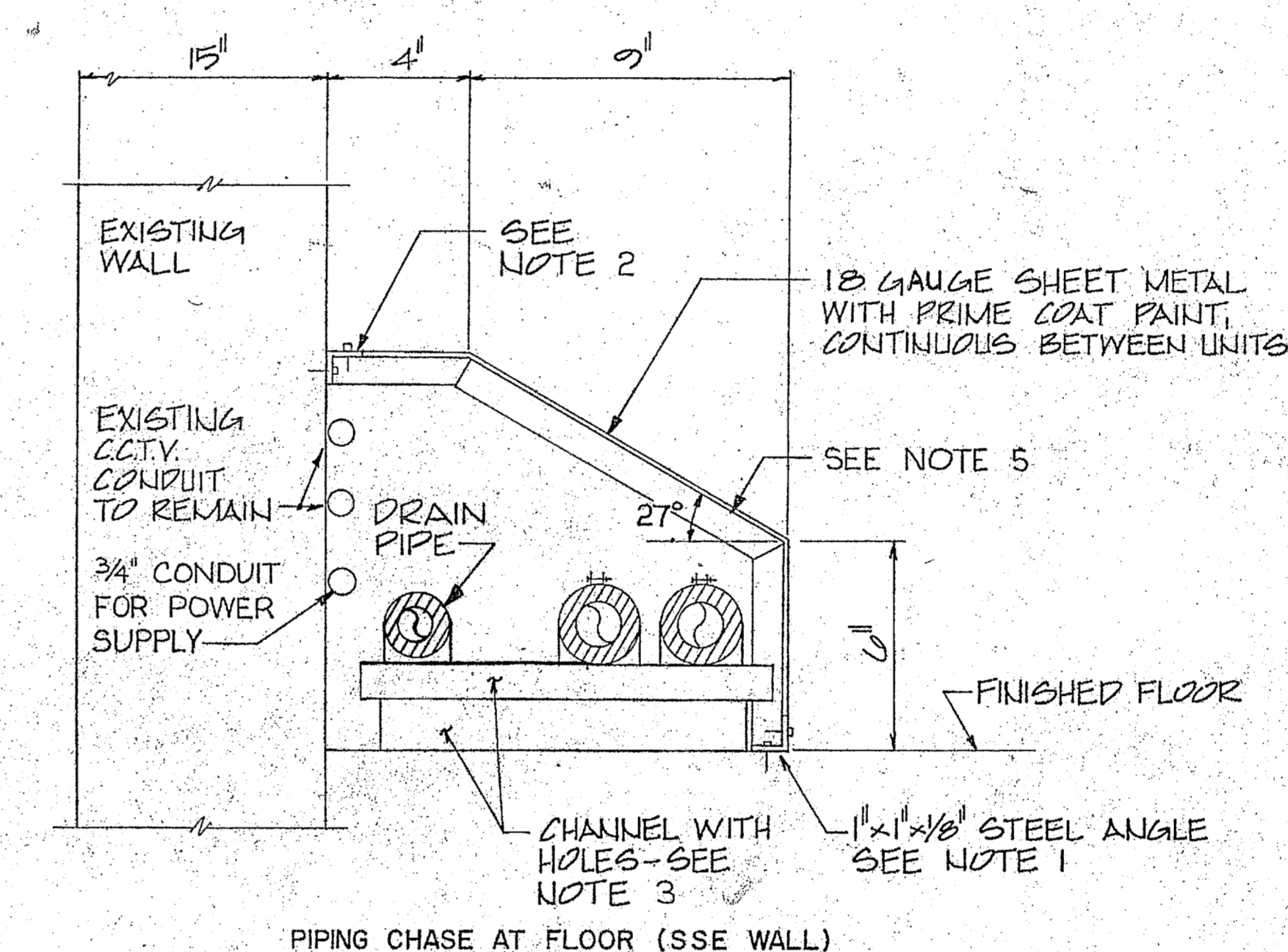
C DETAIL C
M4/M3 NO SCALE



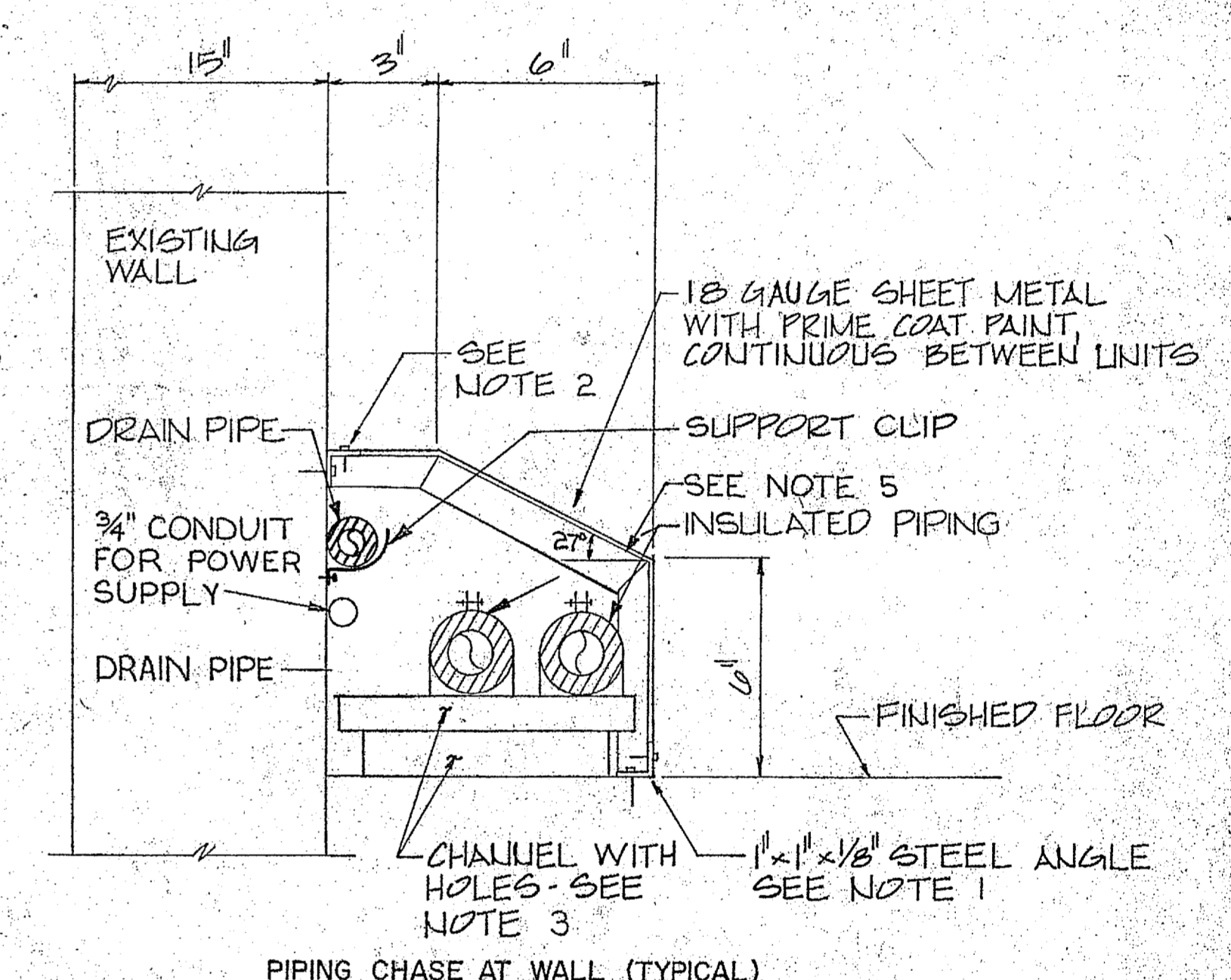
D DETAIL D
M4/M3 NO SCALE



E DETAIL E
M4/M3 NO SCALE

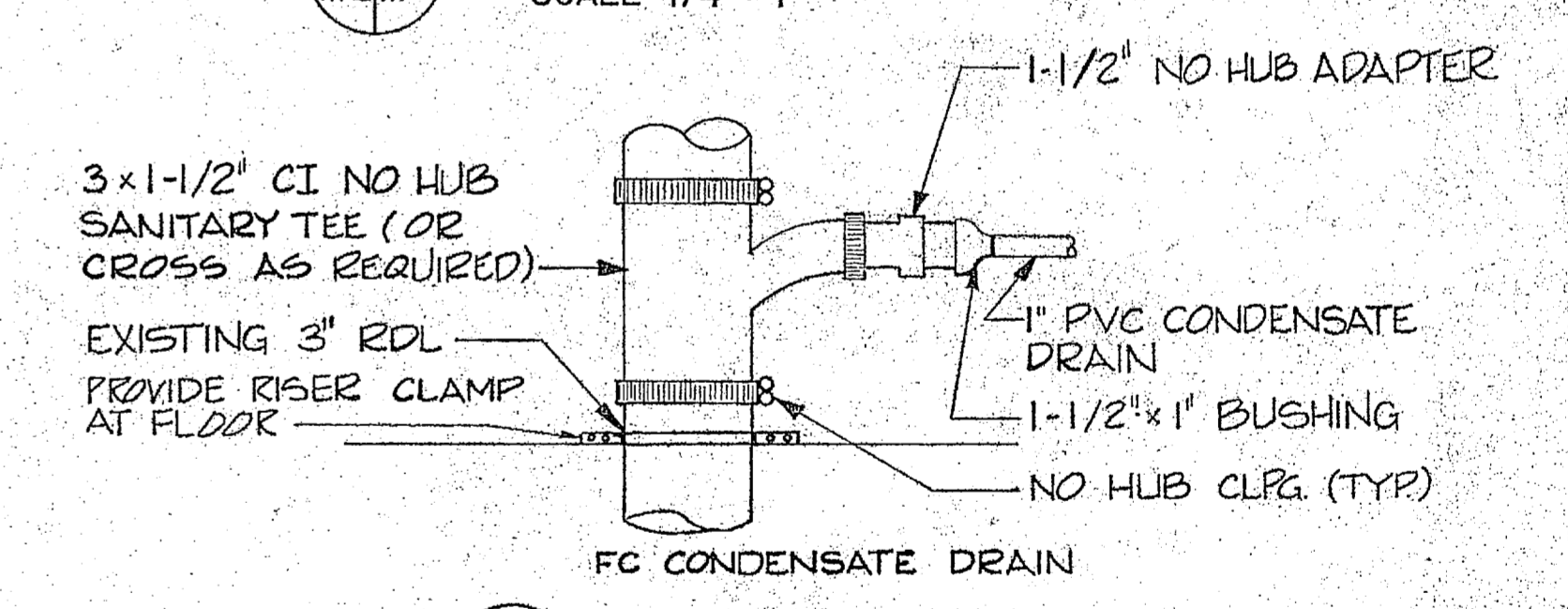


F DETAIL F
M2/M3 SCALE: 1/4" = 1"



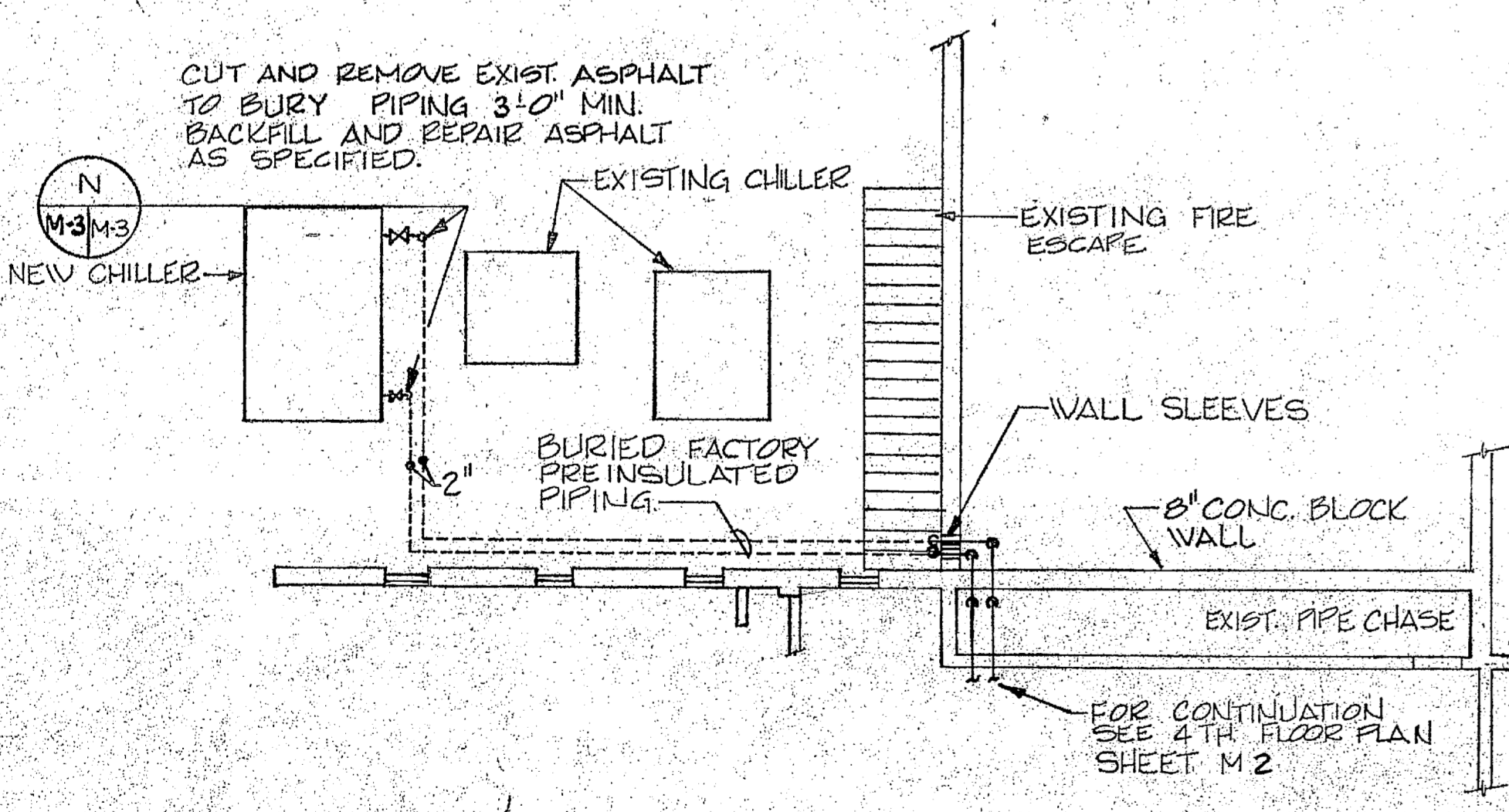
G DETAIL G
M2/M3 SCALE: 1/4" = 1"

- NOTES FOR DETAILS F & G:**
- 1"x1"x1/8" STEEL ANGLE TO BE SECURED TO FLOOR, CONTINUOUS BETWEEN FAN COIL UNITS.
 - 1"x1"x1/8" STEEL ANGLE TO BE SECURED TO WALL, CONTINUOUS BETWEEN FAN COIL UNITS.
 - STANDARD PIPING CHANNEL TO BE SECURED TO FLOOR ON MINIMUM 8' CENTERS; CWS, CWR, & DRAIN PIPES TO BE FASTENED TO CHANNEL.
 - PITCH CWS, CWR, & DRAIN PIPES AT MINIMUM 1/16" PER LINEAR FOOT ALONG CHANNEL BASE SUPPORTS.
 - BRACE WITH 1"x1"x1/8" ANGLE STEEL BAR AT MINIMUM 4' CENTERS.

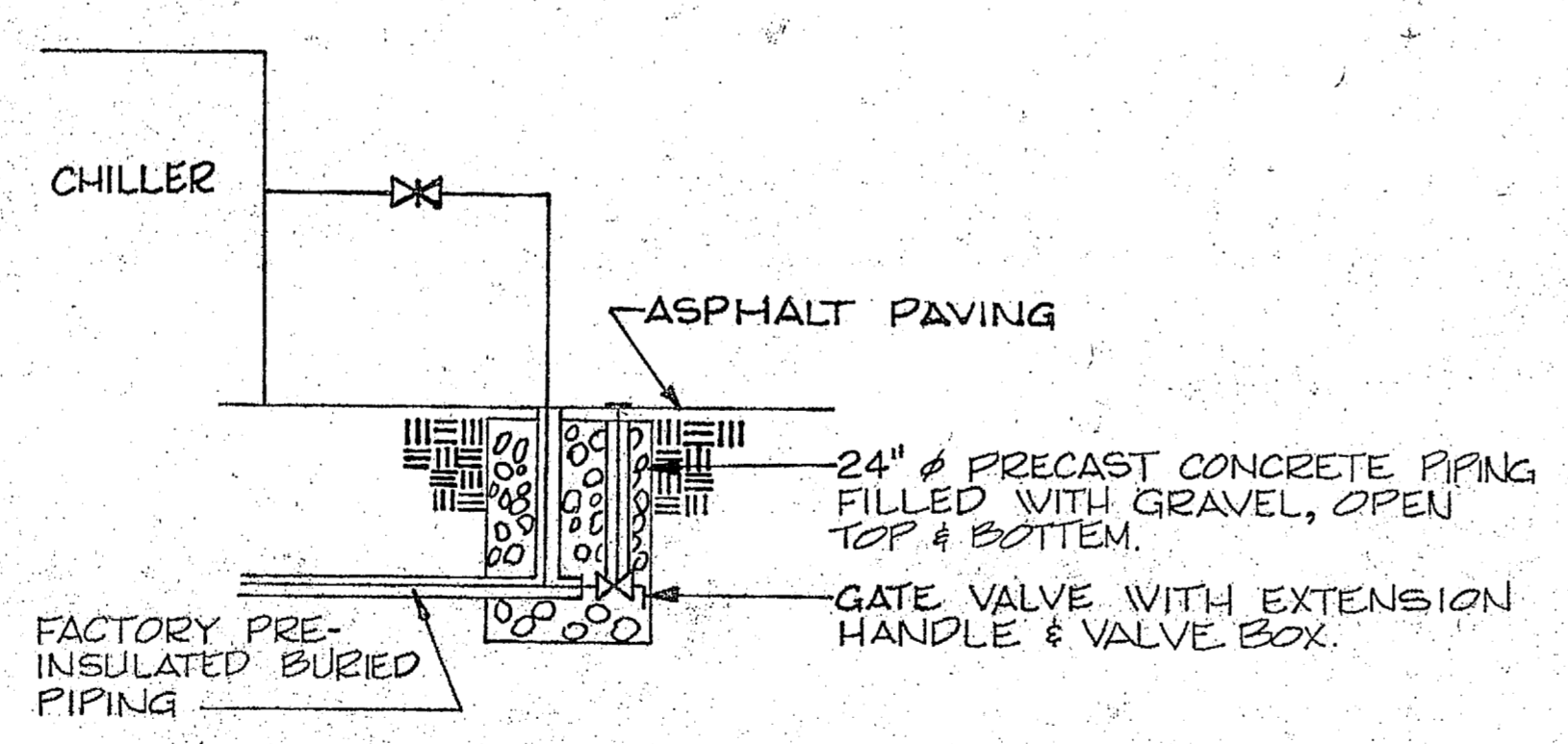


K DETAIL K
M2/M3 NO SCALE

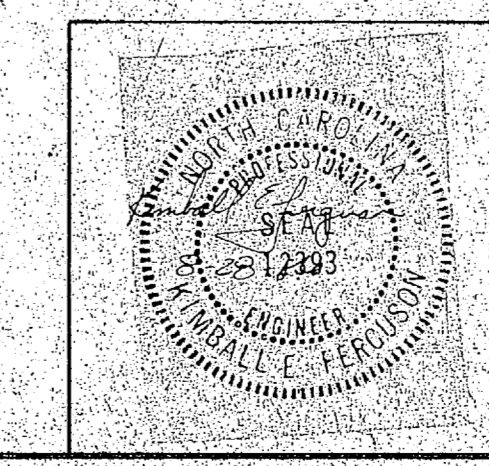
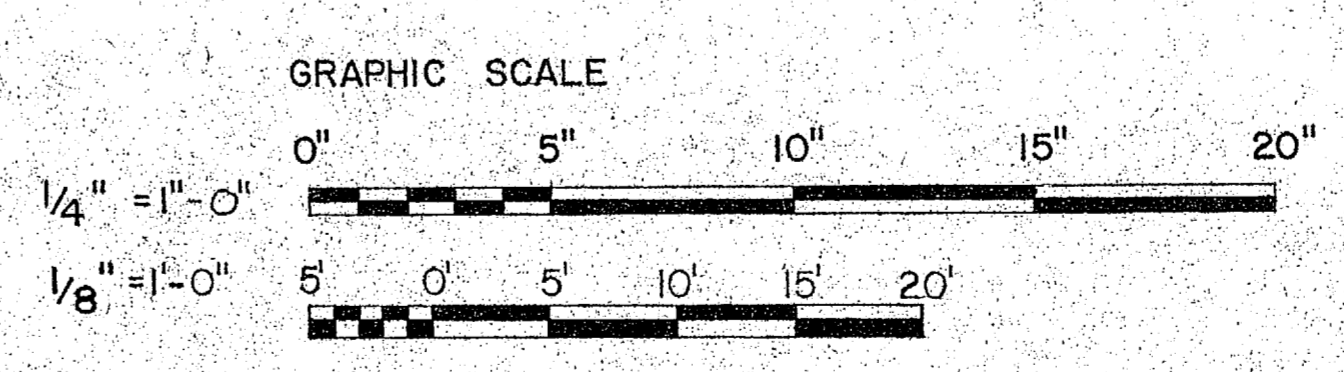
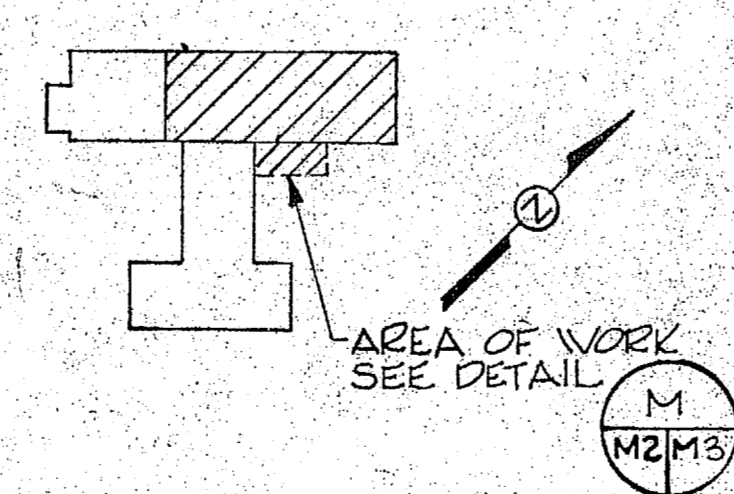
NOTE: SUPPORT EXISTING FLOOR DRAIN PIPING AS CLOSE TO ROOF AS POSSIBLE TO PREVENT DAMAGE TO ROOF DRAIN FLASHING WHILE CUTTING AND REMOVING SECTION OF PIPE.



M DETAIL M
M2/M3 SCALE: 1/8" = 1'-0"



N DETAIL N
M3/M3 NO SCALE



M-3	
McKIM & CREED ENGINEERS, PA 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA	
DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DESIGN DIR. <i>J.C.</i>	
APPROVED: P.W.G. OR DICC DATE <i>4-17-81</i>	
SATISFACTORY TO: DATE	
SIZE F	CODE IDENT. NO. 80091
NAVY DRAWING NO. 4152624	
CONSTR. CONTR. NO. N62470-86-B-5411	
SCALE: NOTED	SPEC: 05-86-5411 SHEET 5 OF 13



AP 5273

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

SPLIT SYSTEM HEATING & AIR CONDITIONING SCHEDULE																
AIR HANDLER				CONDENSING UNIT				COOLING CAPACITY			STEAM HEAT COIL			REMARKS		
UNIT NO.	TOTAL CFM	O.A. CFM	EXT. STATIC PRESSURE	UNIT NO.	COMP. F.L.A.	NO. OF COMP.	FAN HP	NO. OF FANS	VOLT. PH.	TOTAL (MBH)	SENSIBLE (MBH)	SEER	C.F.M.		M.B.H.	LB/HR
AH-1	6000	600	0.75"	AC-1	35.7	1	3/4	2	460V 3φ	199	144	8.3	6000	120	123	

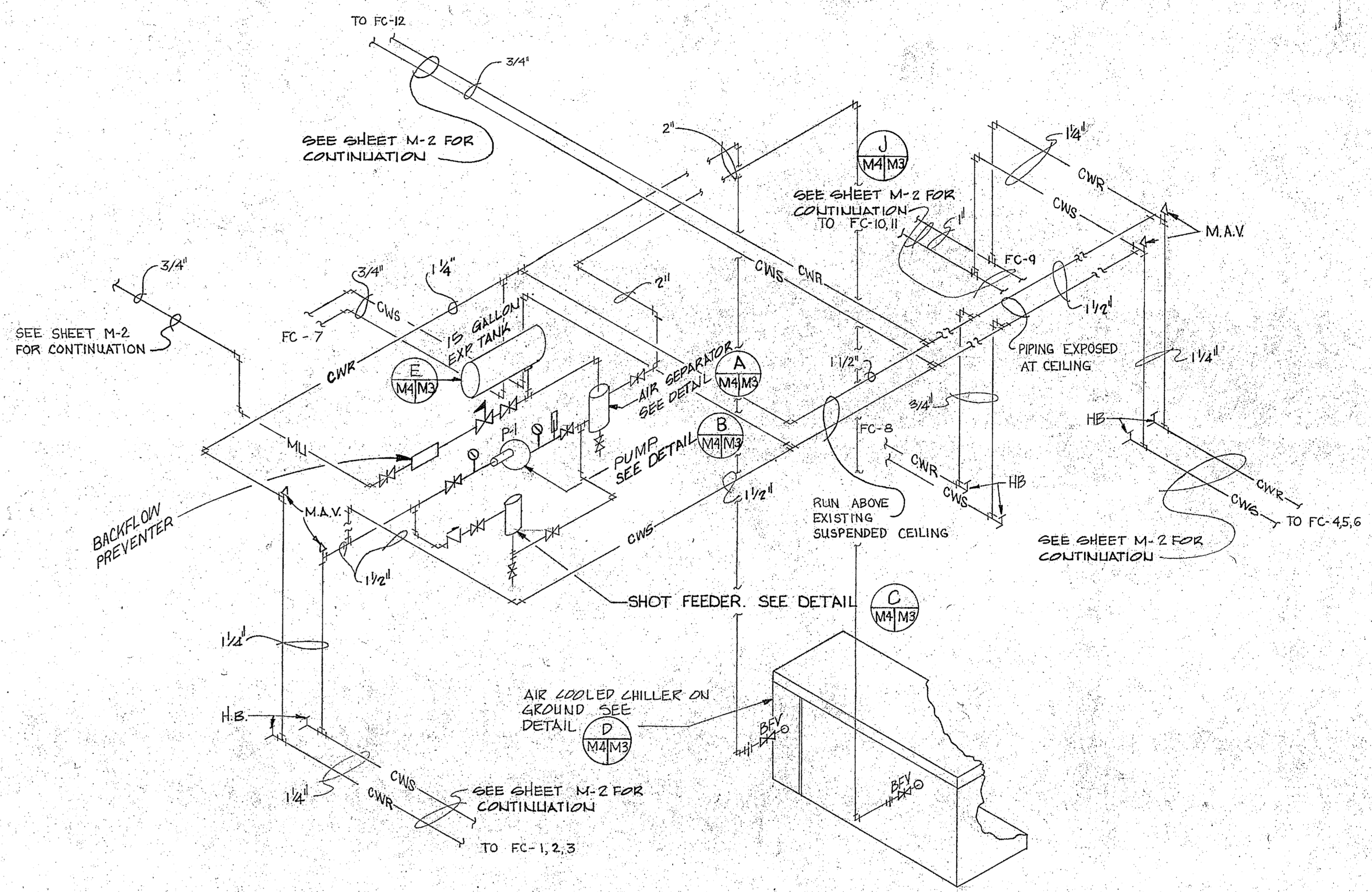
FAN COIL UNIT SCHEDULE										
MARK	CFM	GPM	P.D.	TOTAL COOLING	SENSIBLE COOLING	EWT	LWT	MOTOR HP	VOLTAGE/PHASE	REMARKS
*FC-1	800	3.7	7.2	17900	14900	45	55	1/2	115/1	
*FC-2	800	3.7	7.2	17900	14900	45	55	1/2	115/1	
*FC-3	800	4.4	5.7	21600	17500	45	55	1/2	115/1	HIGH CAPACITY COIL
*FC-4	800	3.7	7.2	17900	14900	45	55	1/2	115/1	
*FC-5	800	3.7	7.2	17900	14900	45	55	1/2	115/1	
*FC-6	800	4.4	5.7	21600	17500	45	55	1/2	115/1	HIGH CAPACITY COIL
FC-7	400	2.3	8.8	11400	8700	45	55	1/30	115/1	HIGH CAPACITY COIL, INTERNAL T'STAT
FC-8	300	1.5	3.5	6800	5800	45	55	1/30	115/1	INTERNAL T'STAT
*FC-9	300	1.5	3.5	6800	5800	45	55	1/30	115/1	RIGHT HAND CONTROLS, INTERNAL T'STAT
*FC-10	600	2.6	8.3	12500	10500	45	55	1/20	115/1	
*FC-11	600	2.6	8.3	12500	10500	45	55	1/20	115/1	
FC-12	300	1.5	3.5	6800	5800	45	55	1/30	115/1	INTERNAL T'STAT

* PERIMETER FAN COIL UNITS SHALL HAVE REAR OPENING FOR MAXIMUM 20 CFM E.A.

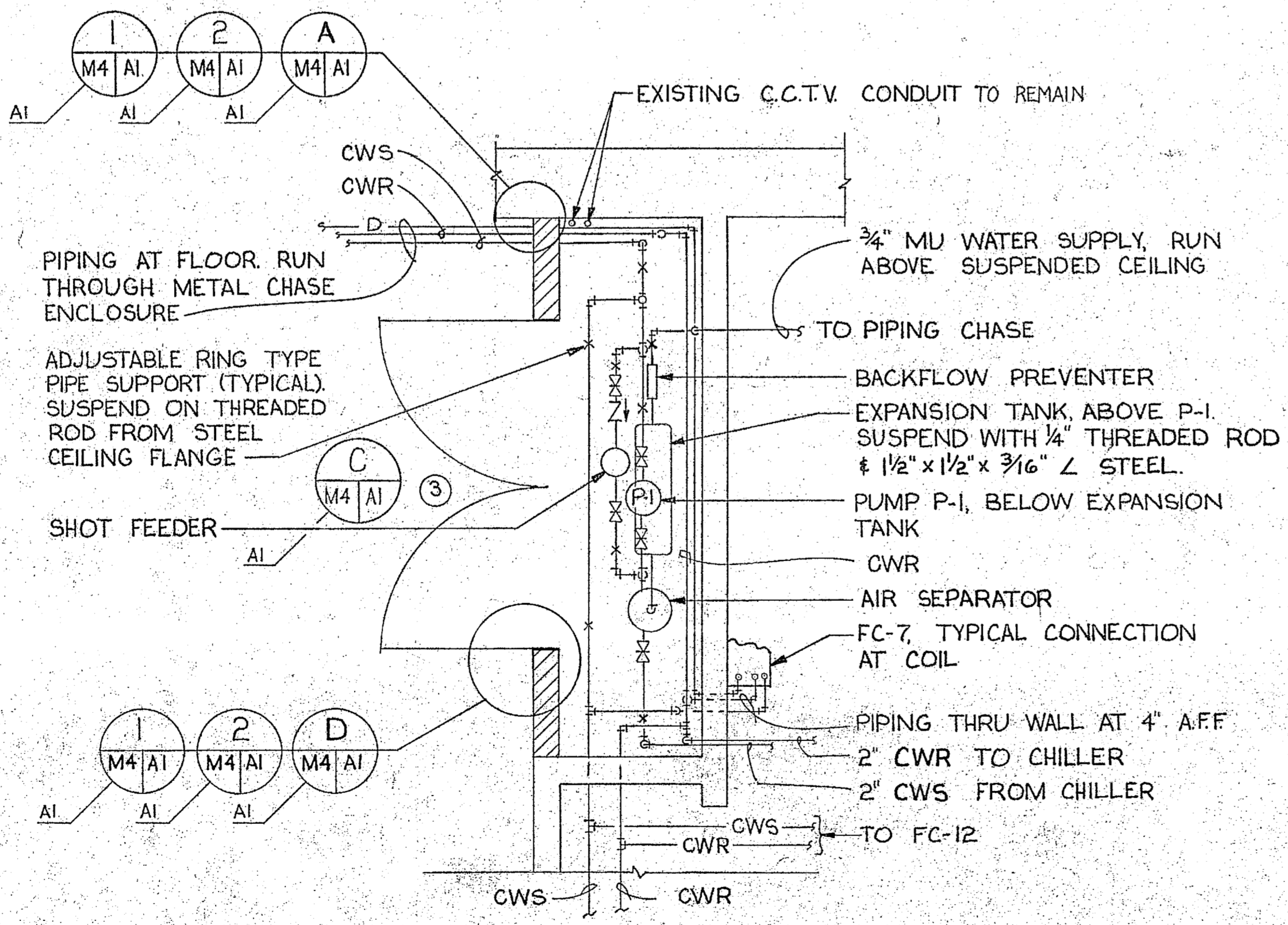
LEGEND	
SYMBOL	DESCRIPTION
◻	REMOVE BETWEEN SYMBOLS
○	DEMOLITION NOTE SYMBOL
⊗	CONNECTION, NEW TO EXISTING
⊘	BACKFLOW PREVENTER
⊘	GATE VALVE
⊘	PRESSURE REDUCING VALVE
⊘	CHECK VALVE
⊘	STRAINER
⊘	FLOWSETTER
⊘	REDUCER, CONCENTRIC
⊘	HOSE BIBB
⊘	GAUGE
⊘	THERMOMETER
⊘	AIR VENT
⊘	FLEXIBLE CONNECTION
⊘	RETURN DUCT
⊘	SUPPLY DUCT
—CWR—	CHILLED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—D—	CONDENSATE DRAIN
RDL	ROOF DRAIN LEADER
— —	LINE/UN
MU	MAKE-UP WATER
M.A.V.	MANUAL AIR VENT
A.A.V.	AUTOMATIC AIR VENT
R.A.	RETURN AIR
F.A.	FRESH AIR
—X—	PIPE SUPPORT
FC	FAN COIL
DM	DAMPER MOTOR
VD	VOLUME DAMPER
SAR	SUPPLY AIR REGISTER
CG	CEILING GRILLE
⊘	BUTTERFLY VALVE
⊘	THERMOSTAT
—	STEAM
—	CONDENSATE
AFF	ABOVE FINISHED FLOOR

PUMP SCHEDULE						
MARK	GPM	HEAD (FT.)	HP	VOLTS	PHASE	REMARKS
P-1	39	71	2	240	1	IN LINE, 1750 RPM

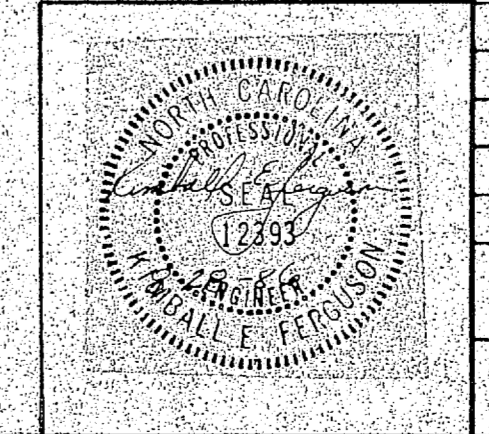
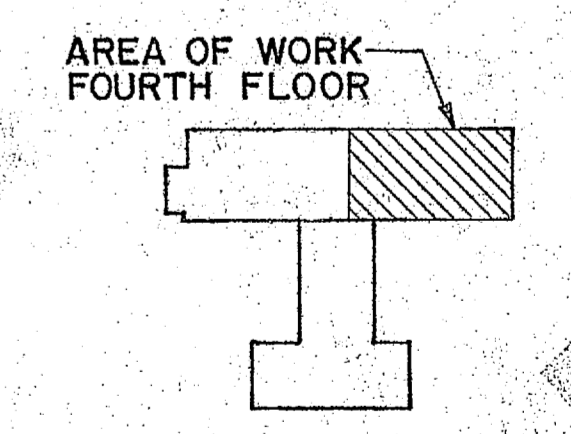
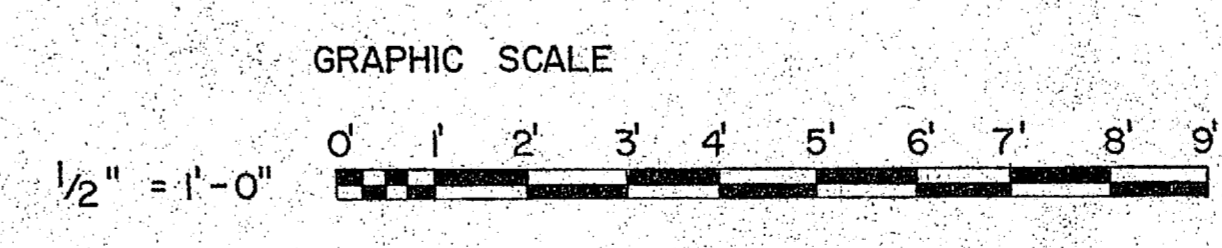
WATER CHILLER FOR FOURTH FLOOR FAN COIL SYSTEM SHALL BE 20 TON CAPACITY AIR COOLED CHILLER (MINIMUM OF 16.4 TON CAPACITY AT 90°F ENTERING AIR TEMPERATURE, 45°F LEAVING WATER TEMPERATURE, 55°F RETURN WATER TEMPERATURE), 460 V, 60HZ, 3 PHASE.



CHILLED WATER SYSTEM PIPING ISOMETRIC
NO SCALE

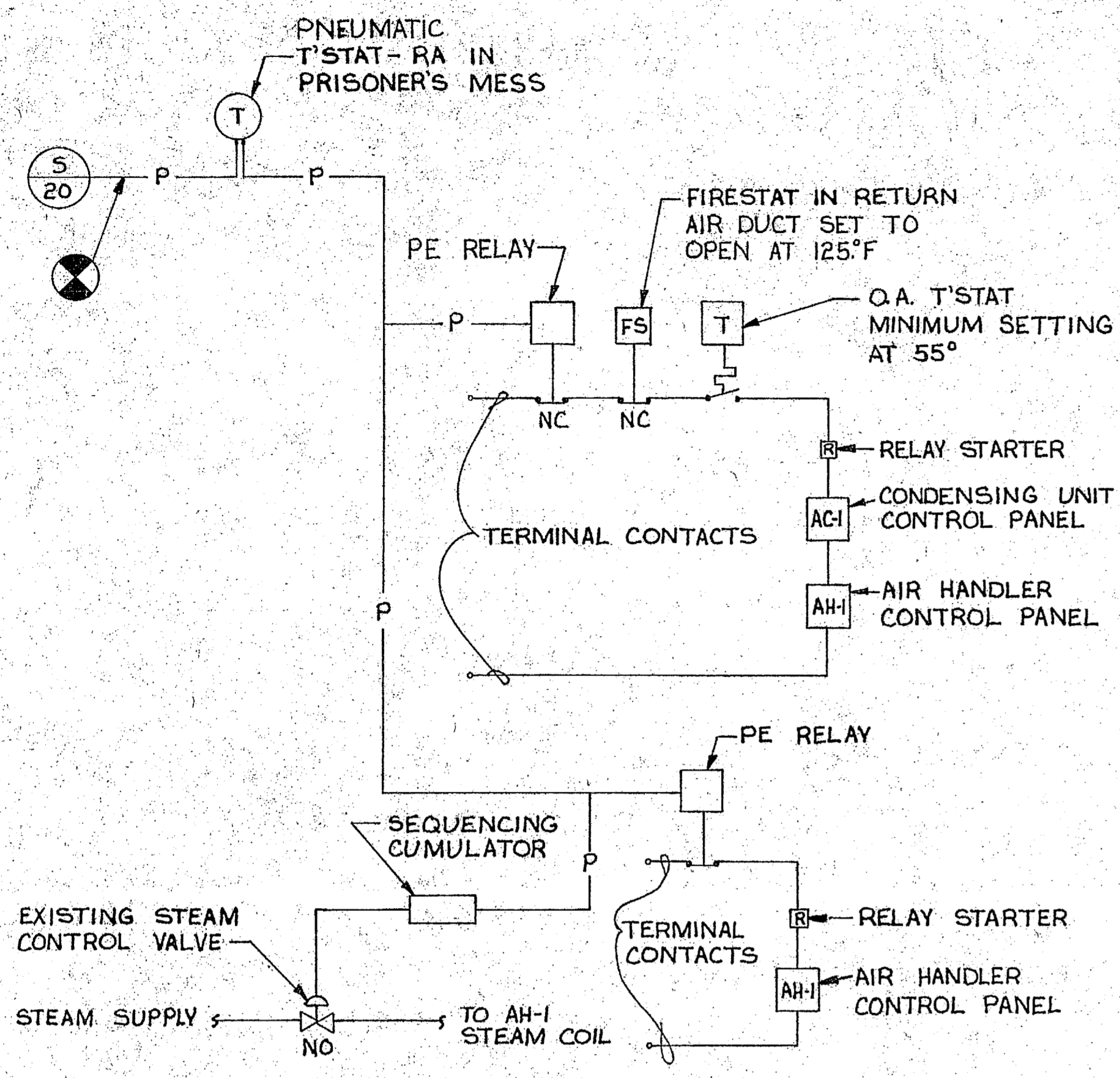


MECHANICAL ROOM PLAN - FOURTH FLOOR - NEW WORK
SCALE: 1/2" = 1'-0"

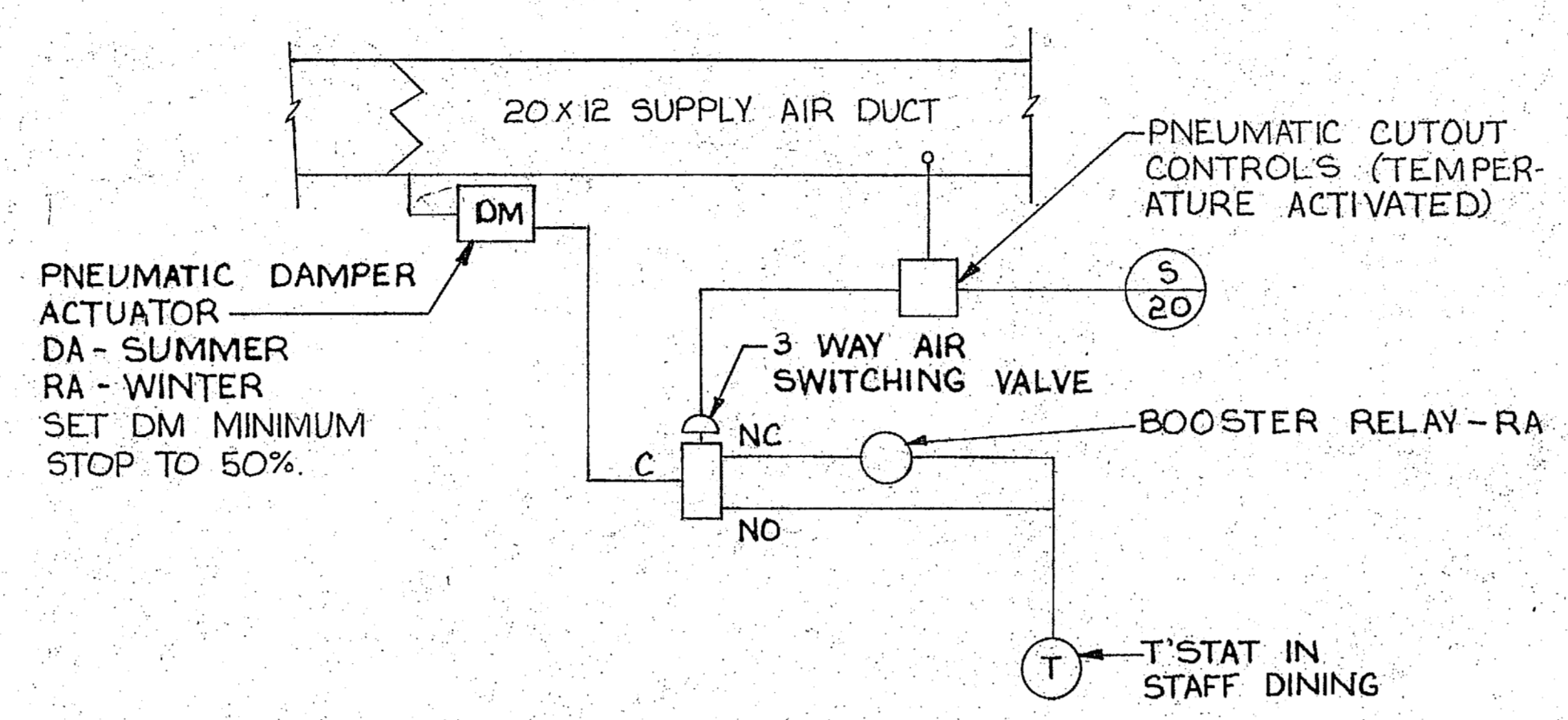


McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. R.S.C. DR. A.L.F. S.D.C. CHK. K.E.F. SUBMITTED BY: H.P. MCKIM, JR. DESIGN DIR. J.C.C.		BUILDING 1041 AIR CONDITIONING SYSTEM MECHANICAL SCHEDULES & LEGEND	
APPROVED: P.W.O. OR D.I.C. DATE: 1-17-87	SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 4152625
SATISFACTORY TO:	DATE:	CONSTR. CONTR. NO.: N62470-86-B-5411	SHEET 6 OF 13

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



CONTROL SCHEMATIC: AH-1 SYSTEM-1ST FLOOR-MESS AREA
NO SCALE



CONTROL SCHEMATIC: MODULATING DAMPER-1ST FLOOR-STAFF DINING
NO SCALE

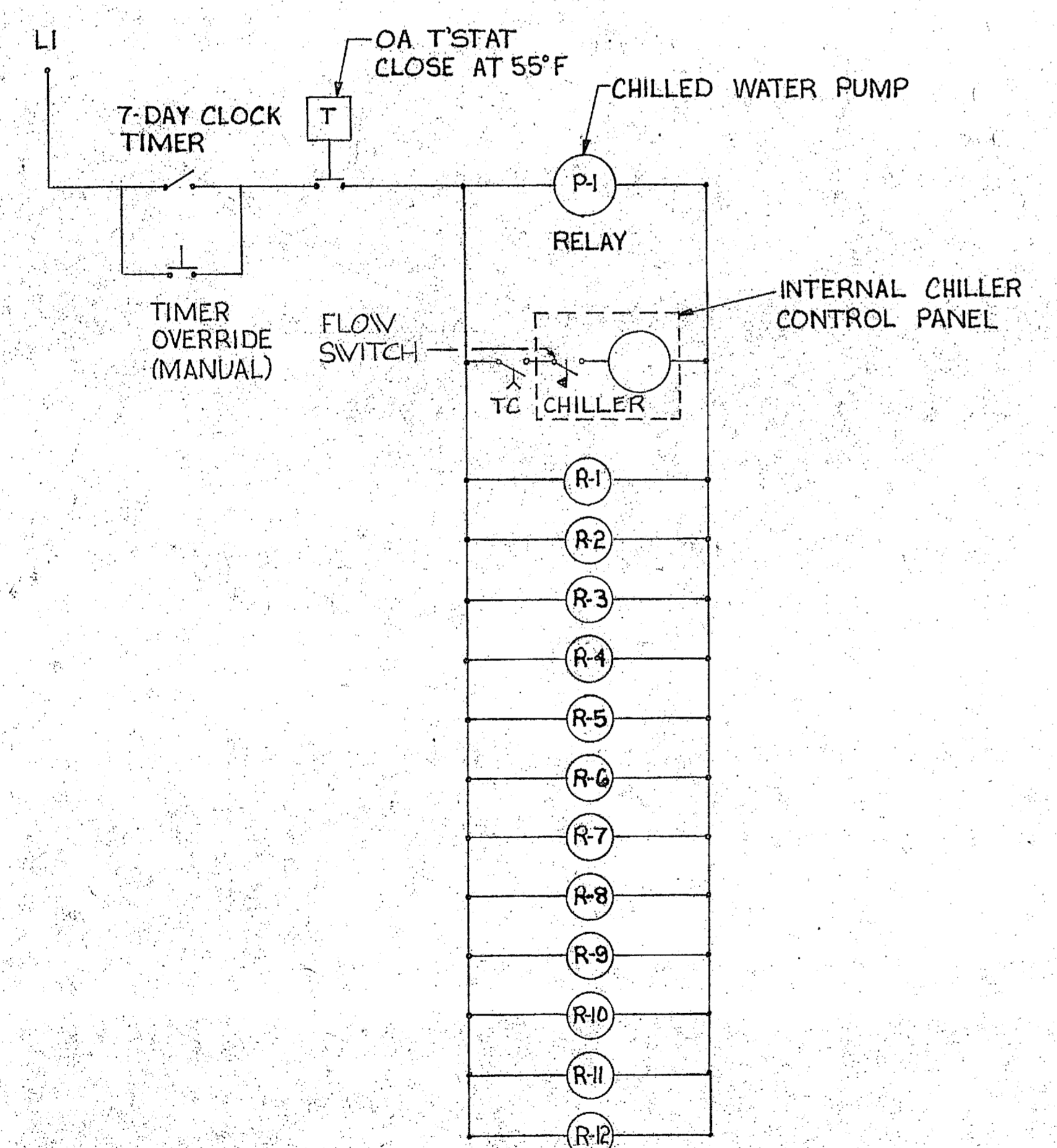
SEQUENCE OF OPERATION: 1ST FLOOR HVAC

COOLING: SYSTEM IS CONTROLLED BY A REVERSE ACTING T'STAT. THE AIR PRESSURE IN THE LINE FROM THE T'STAT ENERGIZES A PE RELAY. AN OUTSIDE AIR T'STAT PREVENTS THE COOLING UNIT FROM OPERATING BELOW 55° F AMBIENT. A RELAY STARTER ENERGIZES THE CONDENSING UNIT, AC-1, AND THE AIR HANDLER, AH-1, WHEN THE T'STAT CALLS FOR COOLING.

HEATING: SYSTEM IS CONTROLLED BY THE REVERSE ACTING T'STAT WHICH ACTIVATES A PE RELAY TO START THE AIR HANDLER, AH-1. A SEQUENCING CUMULATOR IS USED TO MONITOR THE AIR PRESSURE ENTERING THE STEAM CONTROL VALVE TO REGULATE THE FLOW OF STEAM INTO THE STEAM COIL OF AH-1.

MODULATING DAMPER: THE MODULATING (PNEUMATIC) DAMPER IN THE STAFF DINING AREA IS CONTROLLED BY A T'STAT TO REGULATE THE QUANTITY OF SUPPLY AIR DELIVERED TO THE AREA. THE DAMPER MOTOR IS TO BE DIRECT ACTING IN SUMMER AND REVERSE ACTING IN WINTER.

CONTROLS LEGEND	
SYMBOL	DESCRIPTION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTSIDE AIR
PE	PNEUMATIC-ELECTRIC RELAY
RA	REVERSE ACTING
L	MAIN LINE
C	COMMON
DM	DAMPER MOTOR
R	RELAY STARTER (FOR FC UNITS)
T'STAT	THERMOSTAT
PSI	POUNDS PER SQUARE INCH
PE.	PNEUMATIC-ELECTRIC SWITCH
TC	TIMED CLOSE RELAY
—P—	PNEUMATIC (AIR) LINE
⊕	THERMOSTAT
⊞	RELAY STARTER (FOR AH-1)
⊞	3-WAY VALVE, MOTORIZED
⊞	FLOW SWITCH
TC	TIME-DELAY SWITCH, NO, TIMED CLOSE
⊞	SUPPLY AIR @ 20 PSI



CONTROL SCHEMATIC: FAN COIL SYSTEM-4TH FLOOR
NO SCALE

SEQUENCE OF OPERATION: 4TH FLOOR FC SYSTEM

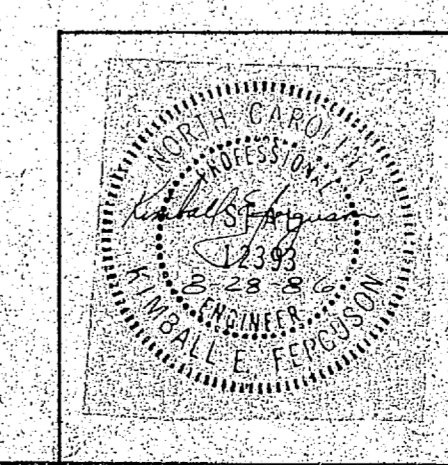
PUMP: PUMP P-1 SHALL BE ACTIVATED BY AN AUTOMATIC 7-DAY CLOCK TIMER WITH MANUAL OVERRIDE PROVISION. THERE WILL BE AN OUTSIDE AIR T'STAT TO PREVENT SYSTEM OPERATION BELOW 55° F AMBIENT TEMPERATURE.

CHILLER: THE CHILLER SHALL BE ACTIVATED APPROXIMATELY 30 SECONDS AFTER P-1 ENERGIZES USING A TIME DELAY RELAY. THE CHILLER SHALL CYCLE ON ONLY WHEN WATER FLOW HAS BEEN PROVEN AT THE FLOW SWITCH.

FAN COIL UNITS: ALL FAN COIL UNITS SHALL BE ACTIVATED BY RELAYS THROUGH THE CLOCK TIMER. THE UNIT FAN SPEED SHALL BE CONTROLLED BY MEANS OF A BUILT-IN THREE SPEED FAN SWITCH ON EACH UNIT. THE UNITS CAN ONLY BE OPERATED WHEN ENERGIZED THROUGH THE CLOCK TIMER.

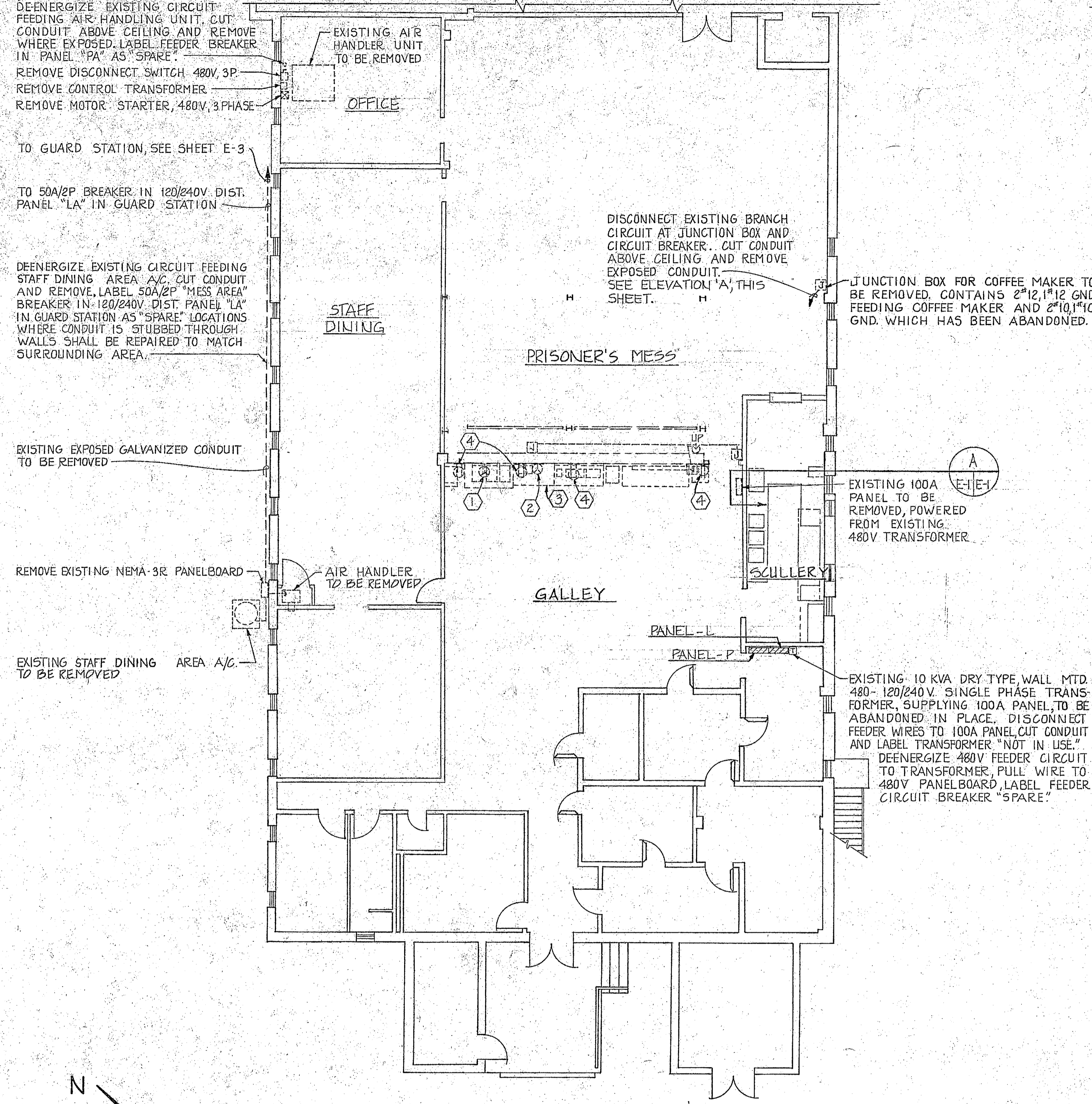
ALL UNITS SHALL BE SERVED BY FACTORY INSTALLED T'STATS WHICH WILL CYCLE ON THE FAN MOTOR.

MCKIM & CREED ENGINEERS, PA 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. R.S.C. DR. A.L.F. CHK. K.E.F. SUBMITTED BY: H.P. MCKIM, JR. DESIGN DIR. [Signature]		BUILDING 0041 AIR CONDITIONING SYSTEM CONTROLS	
APPROVED: PWO OR DICC [Signature]	DATE: 4-17-87	SIZE: F	CODE IDENT. NO.: 80091
SATISFACTORY TO:	DATE:	NAVFAC DRAWING NO.: 4152626	CONSTR. CONTR. NO. N62470-86-B-5411
SCALE: NOTED		SPEC: 05-86-5411	SHEET 7 OF 13

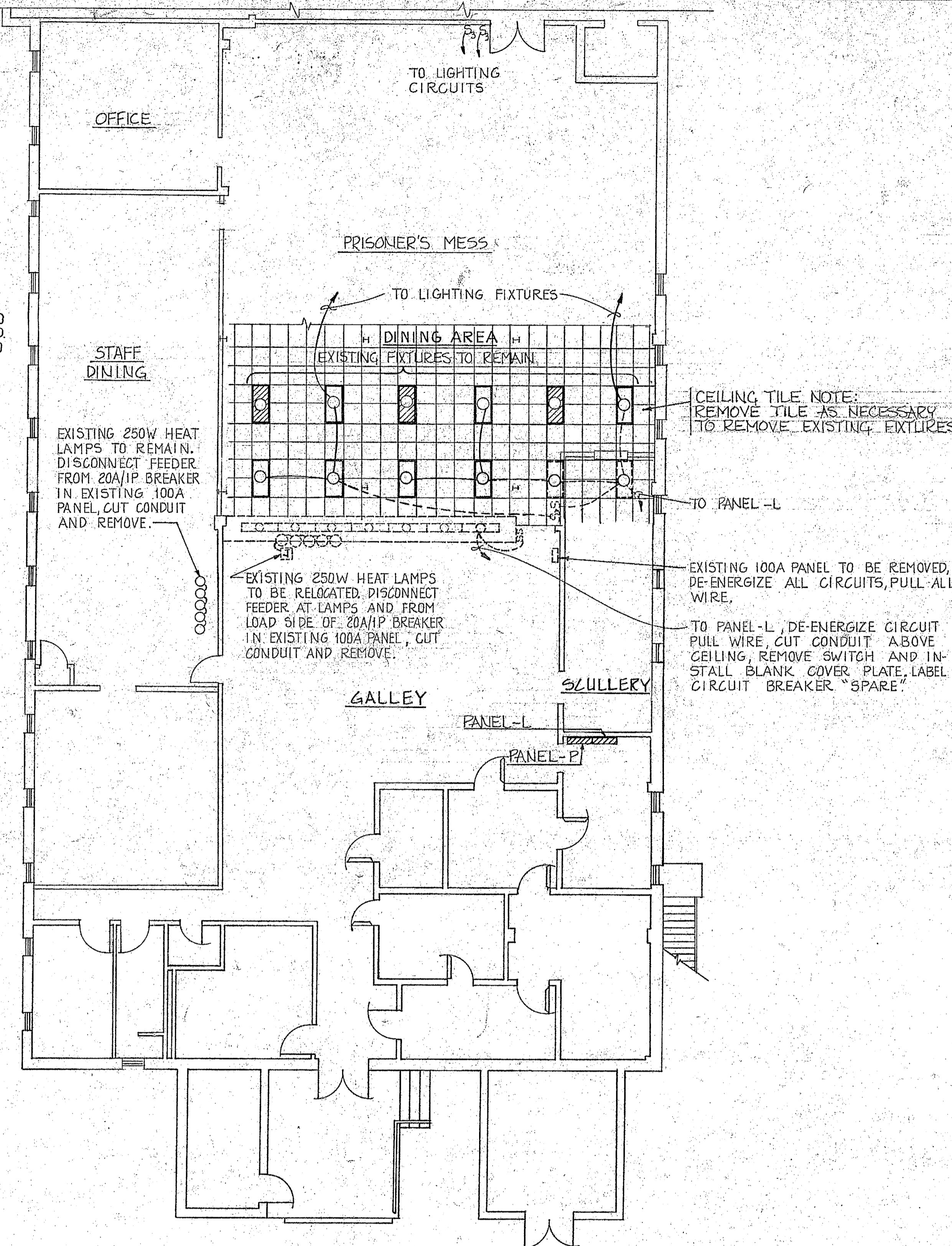




45 30373



FIRST FLOOR DEMOLITION-POWER
SCALE: 1/8" = 1'-0"



FIRST FLOOR DEMOLITION-LIGHTING
SCALE: 1/8" = 1'-0"

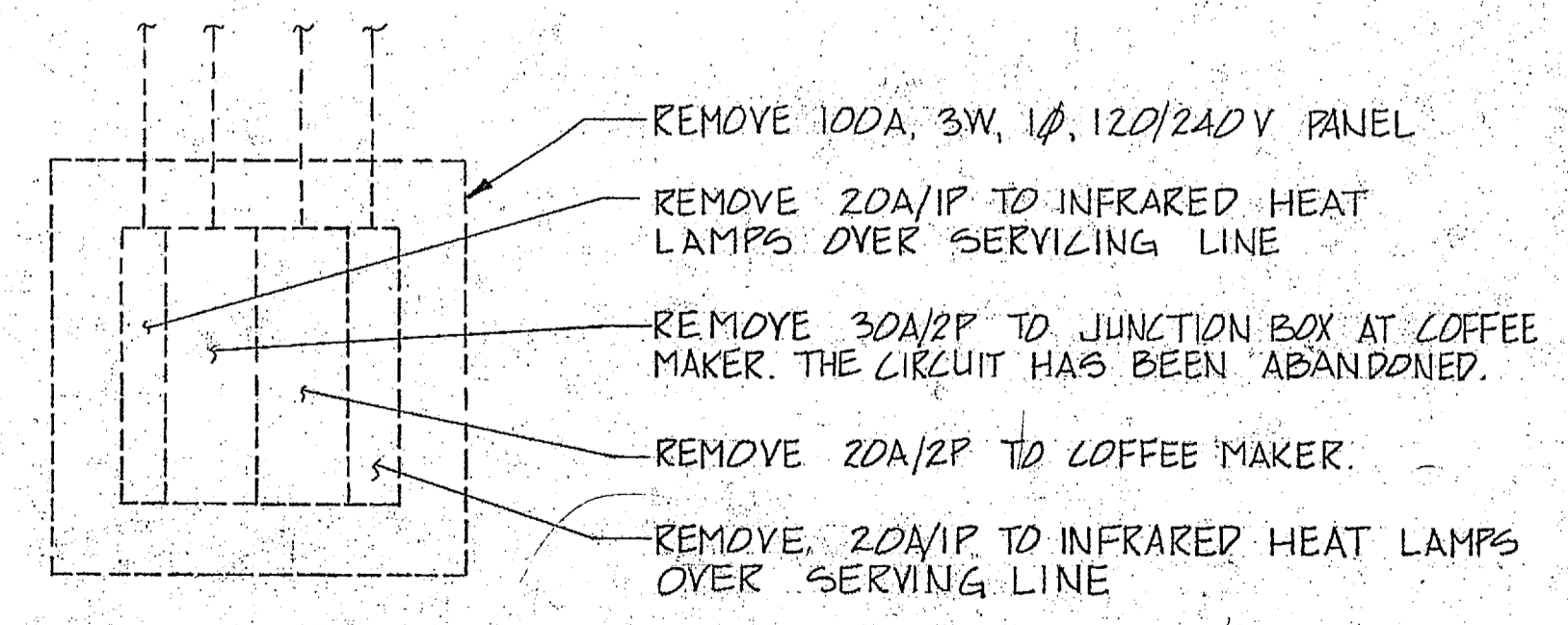
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

ELECTRICAL LEGEND		
EXISTING TO BE REMOVED	NEW OR EXISTING TO REMAIN	DESCRIPTION
⊕	⊕	DUPLEX CONVENIENCE RECEPTACLE, 20A, 120VAC, MOUNTED 18" AFF. (UND.)
⊕	⊕	RECEPTACLE, 250VAC, MOUNTED 18" AFF. (UNLD.)
⊕	⊕	JUNCTION BOX
⊕	⊕	ELECTRICAL PANELBOARD
⊕	⊕	CEILING OUTLET W/1x4" FLUORESCENT LIGHT FIXTURE. (SEE FIXTURE SCHEDULE)
⊕	⊕	CEILING OUTLET W/2x4" FLUORESCENT LIGHT FIXTURE.
⊕	⊕	CEILING OUTLET W/INFRARED LIGHT FIXTURE.
⊕	⊕	WALL OUTLET W/INCANDESCENT LIGHT FIXTURE. (SEE FIXTURE SCHEDULE)
⊕	⊕	SWITCH, SINGLE POLE, 120 VAC, MOUNTED 48" AFF. (UN.O.)
⊕	⊕	SWITCH, THREE WAY, 120 VAC, MOUNTED 48" AFF. (UN.O.)
⊕	⊕	FAN COIL UNIT
⊕	⊕	SMOKE DETECTOR, BATTERY OPERATED, CEILING MTD.
⊕	⊕	DISCONNECT SWITCH - FUSIBLE
⊕	⊕	MOTOR STARTER
⊕	⊕	TRANSFORMER, DRY TYPE, WALL MOUNTED
⊕	⊕	EXISTING PANELBOARD
⊕	⊕	CEILING OUTLET W/2x4" FLUORESCENT LIGHT FIXTURE ON 24 HOUR CIRCUIT
⊕	⊕	CONDUIT AND WIRE
⊕	⊕	HOMERUN WITH BRANCH CIRCUIT DESIGNATION
⊕	⊕	FIXTURE SYMBOL

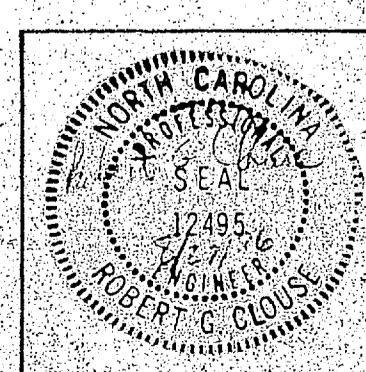
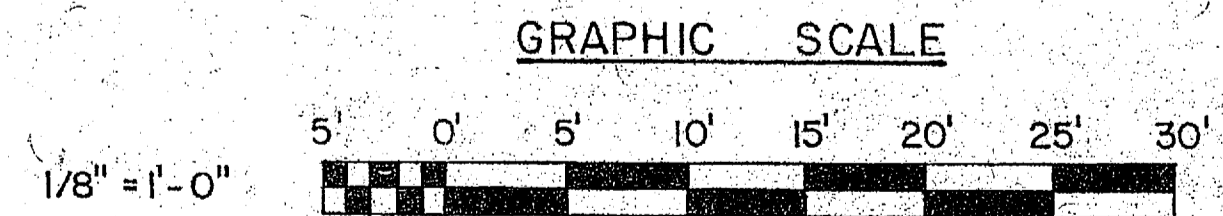
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AT	AMPERE TRIP
UND	UNLESS NOTED OTHERWISE
ER	EXISTING TO REMAIN
WP	WEATHERPROOF
AF	AMPERE FRAME
KATC	THOUSAND AMPERE INTERRUPTING CAPACITY
FCAN	FULL CAPACITY ABOVE NOMINAL
FCBN	FULL CAPACITY BELOW NOMINAL
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED

DEMOLITION NOTES: (REFERENCE NEW WORK NOTES-POWER, SHEET E-3)

- ① REMOVE RECEPTACLE TO HOT FOOD TABLE; 34A, 3φ, 208V.
- ② REMOVE RECEPTACLE (30A-208V) TO BREAD WARMER.
- ③ REMOVE DIRECT CONNECTION TO COMPRESSOR (50A-3φ-208V).
- ④ REMOVE DUPLEX RECEPTACLES.



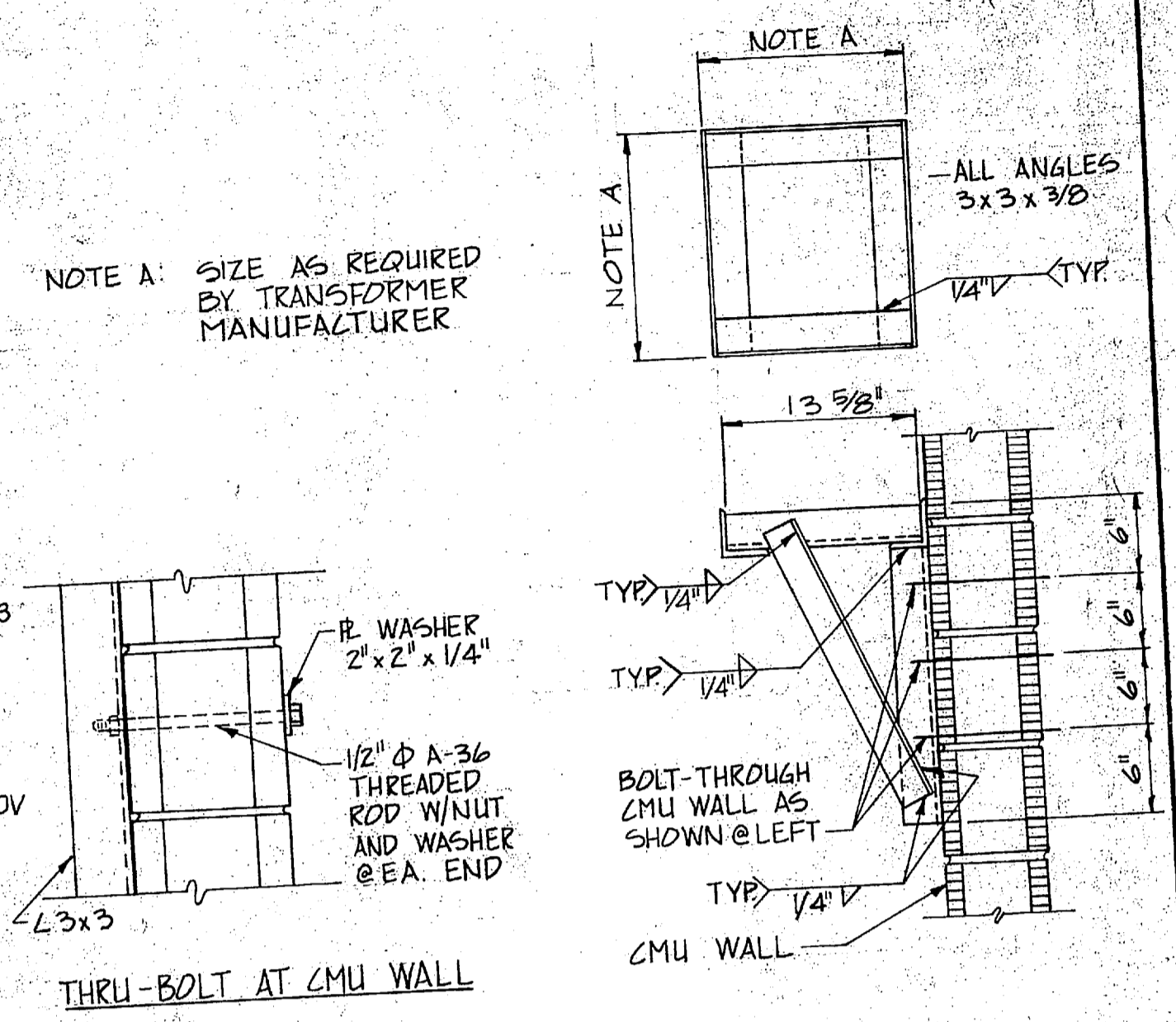
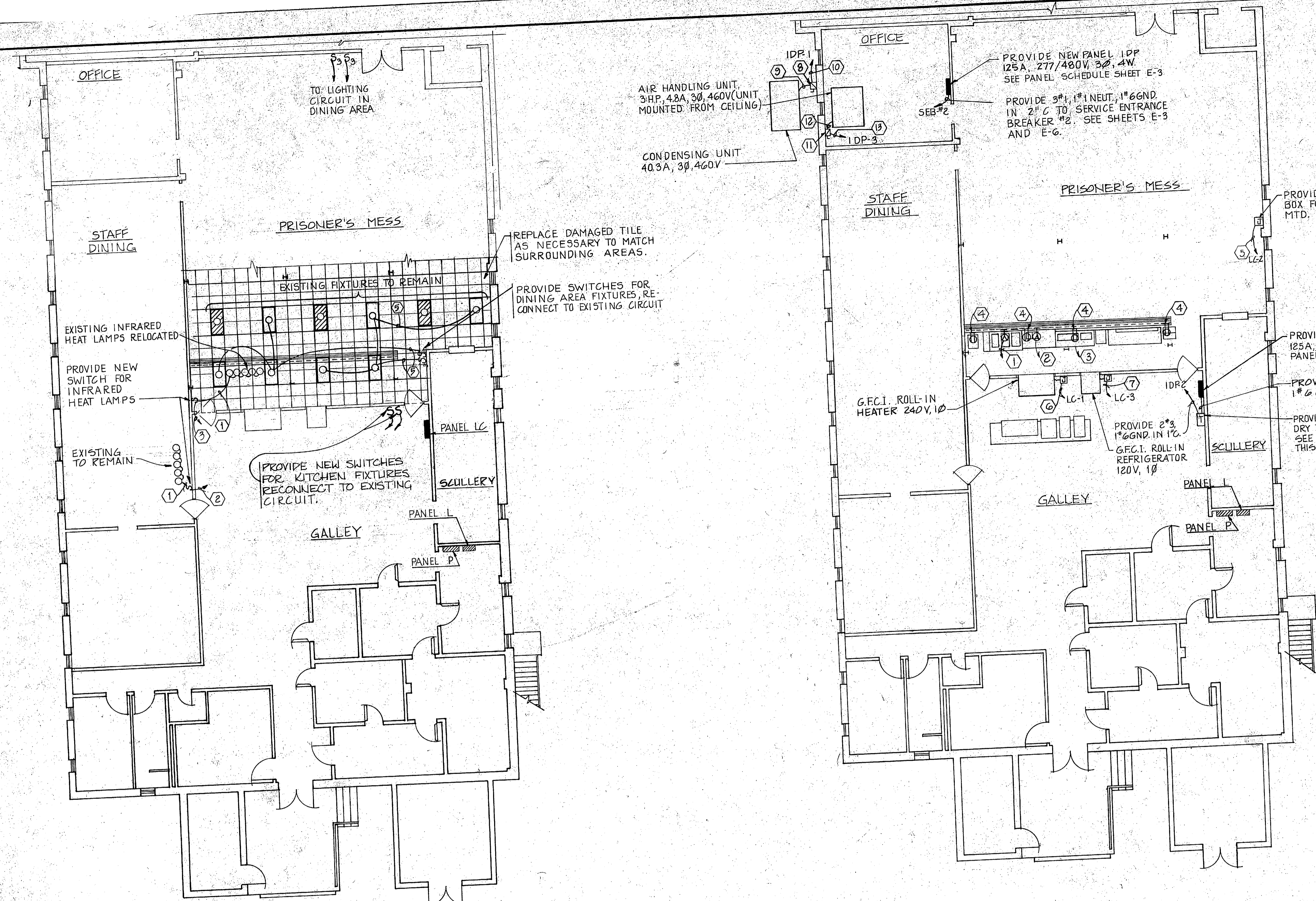
ELEVATION OF PANEL A
NOT TO SCALE



McKIM & CREED ENGINEERS, PA 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. GBH		BUILDING 1041	
DR. J.L.F. PRS		AIR CONDITIONING SYSTEM	
CHK. RGC		FIRST FLOOR - DEMOLITION	
SUBMITTED BY:		DATE: 4-17-87	
DESIGN DIR.:		SIZE: F	CODE IDENT. NO.: 80091
APPROVED: PWO OR DIC		DATE: 4-17-87	NAVYAC DRAWING NO.: 4152627
SATISFACTORY TO:		DATE:	CONSTR. CONTR. NO. 462470466-2541
		SCALE: GRAPHIC SPEC. 05-86-541	SHEET 8 OF 13



REVISIONS		
SYM.	DESCRIPTION	DATE



TRANSFORMER MOUNTING DETAIL
SCALE: 1" = 1'-0"

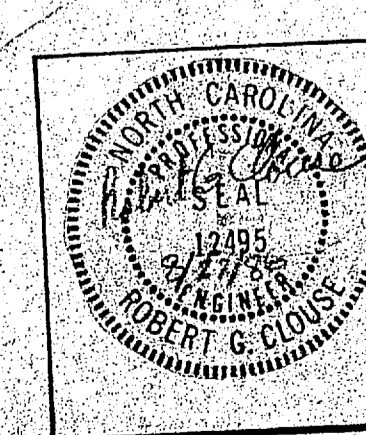
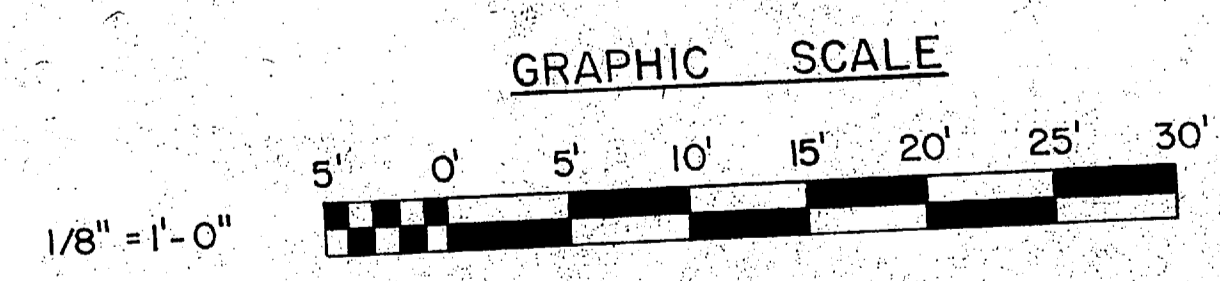
- NEW WORK NOTES-LIGHTING**
- PROVIDE 2 #12, 1 #12 GND IN 3/4" C. FROM HEAT LAMPS TO NEW SWITCH LOCATION.
 - PROVIDE 2 #12, 1 #12 GND IN 3/4" C. FROM NEW SWITCH TO 20A/1P CIRCUIT BREAKER #4 IN NEW DISTRIBUTION PANEL "LC". RUN CONDUIT ABOVE CEILING.
 - PROVIDE 2 #12, 1 #12 GND IN 3/4" C. FROM NEW SWITCH TO 30A/1P CIRCUIT BREAKER #5 IN NEW DISTRIBUTION PANEL "LC". RUN CONDUIT ABOVE CEILING.
 - PROVIDE 3 #12, 1 #12 GND IN 3/4" C. FROM NEW DINING AREA LIGHTING SWITCHES TO EXISTING SURFACE MOUNTED LIGHTING FIXTURE.
 - PROVIDE 3 #12, 1 #12 GND IN 3/4" C. FROM EXISTING LIGHTING CIRCUIT TO REPEATED EXISTING SURFACE MOUNTED LIGHTING FIXTURE.
 - PROVIDE 2 #12, 1 #12 GND IN 3/4" C. FROM EXISTING LIGHTING FIXTURE TO FEED NEW LIGHTING FIXTURE.

FIRST FLOOR NEW WORK-LIGHTING
SCALE: 1/8" = 1'-0"

FIRST FLOOR NEW WORK-POWER
SCALE: 1/8" = 1'-0"

- NEW WORK NOTES-POWER**
- PROVIDE 3 #8, 1 #10 GND IN 1" C. FROM LOCATION OF EXISTING HOT FOOD TABLE RECEPTACLE TO NEW RECEPTACLE LOCATION, NEMA-10-30R.
 - PROVIDE 3 #8, 1 #10 GND IN 1" C. FROM LOCATION OF EXISTING BREAD WARMER RECEPTACLE TO NEW RECEPTACLE LOCATION, NEMA-10-30R.
 - PROVIDE 3 #8, 1 #10 GND IN 1" C. FROM EXISTING LOCATION TO NEW LOCATION OF COMPRESSOR.
 - PROVIDE 3 #12, 1 #12 GND IN 3/4" C. FROM EXISTING CONVENIENCE RECEPTACLE BRANCH CIRCUIT TO NEW LOCATION OF CONVENIENCE RECEPTACLES, NEMA-5-20R.
 - PROVIDE 2 #10, 1 #10 N, 1 #10 GND IN 3/4" C. TO 30A/2P CRT#2 IN NEW DISTRIBUTION PANEL "LC".
 - NOT USED.
 - PROVIDE 2 #12, 1 #12 GND IN 3/4" C. TO 20A/1P CRT#3 IN NEW DISTRIBUTION PANEL "LC".
 - PROVIDE 600V, 60 AMPERE RATED FUSIBLE DISCONNECT SWITCH MOUNTED ON WALL.
 - PROVIDE 3 #6, 1 #10 GND FROM DISCONNECT SWITCH TO SINGLE POINT CONNECTION ON CONDENSER UNIT IN 1" LIQUID TIGHT FLEXIBLE CONDUIT.
 - PROVIDE 3 #6, 1 #10 GND IN 1" C. STUB CONDUIT THROUGH WALL, RUN ABOVE CEILING AND DOWN TO PANEL 1DP, CIRCUIT #1.
 - PROVIDE 600V, 30 AMPERE RATED FUSIBLE DISCONNECT SWITCH MOUNTED ON WALL.
 - PROVIDE 3 #12, 1 #12 GND FROM DISCONNECT SWITCH TO SINGLE POINT CONNECTION ON AIR HANDLER UNIT IN 3/4" FLEXIBLE CONDUIT.
 - PROVIDE 3 #12, 1 #12 GND IN 3/4" C. RUN CONDUIT ABOVE CEILING AND DOWN TO PANEL 1DP, CIRCUIT #3.

SCHEDULE OF ELECTRICAL CONNECTION						
DESCRIPTION	HP	AMPS	KW	Ø	VOLTS	FEEDER
CONDENSER		40.3		3	460	3 #6, 1 #10 GND IN 1" C.
AIR HANDLER	3	4.8		3	460	3 #12, 1 #12 GND IN 3/4" C.
ROLL IN REFRIGERATOR	16.8	1.4		1	120	2 #12, 1 #12 GND IN 3/4" C.
ROLL IN HEATER	14.6	2		1	240	2 #10, 1 #10 N, 1 #10 GND IN 3/4" C.
25 KVA TRANSFORMER			25 KVA	1	480V 120/240V	SEE KIDEL DIAG SHEET E-2

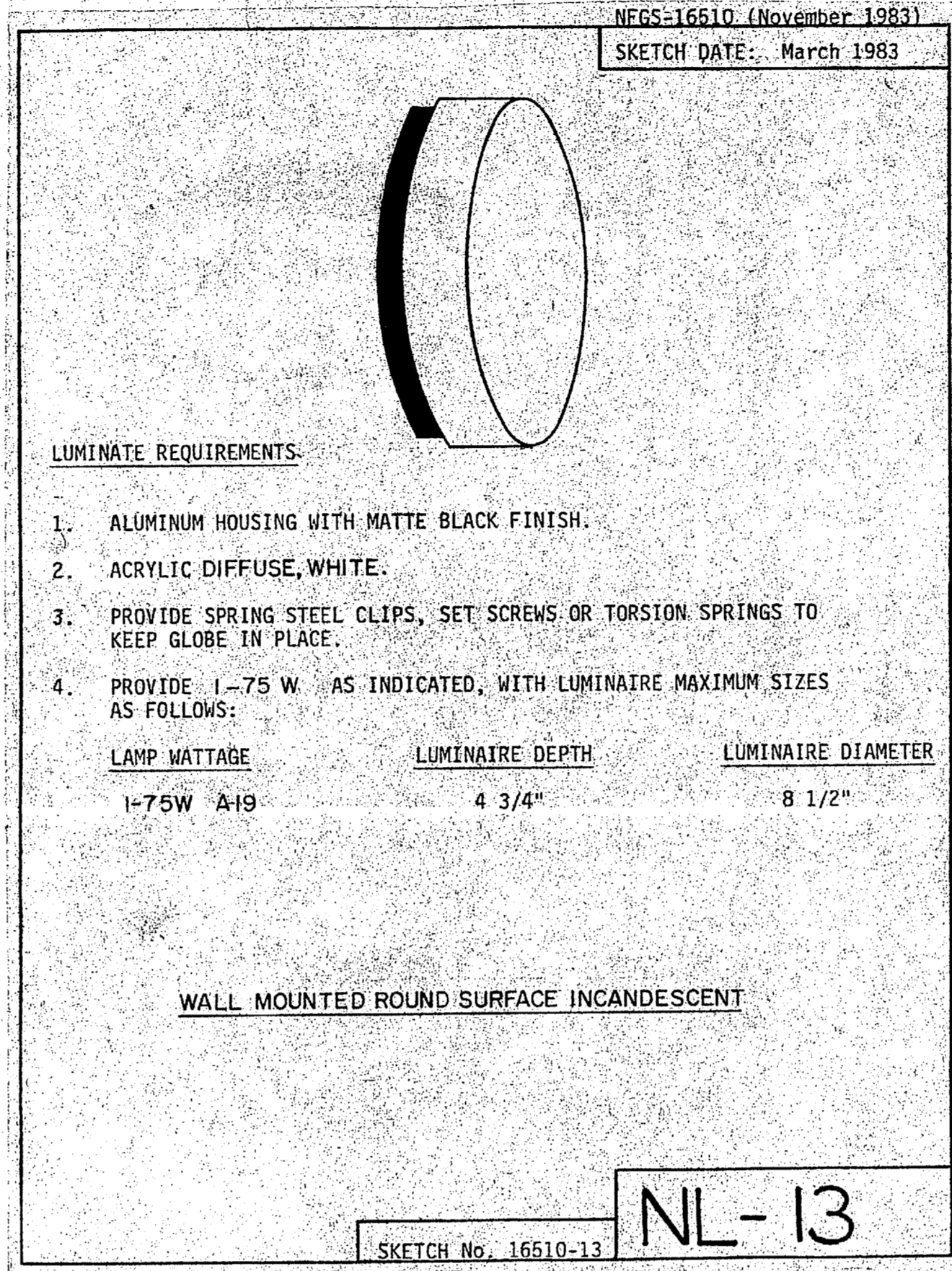


McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA	
DES. GBH DR. J.L.F. PRS CHK. R.G.C.		BUILDING 1041 AIR CONDITIONING SYSTEM FIRST FLOOR-NEW WORK	
SUBMITTED BY: <i>JL</i>		SIZE: F	NAVFAC DRAWING NO. 4152628
APPROVED: PWD OR DIC <i>Alton</i> 4-17-87		CODE IDENT. NO. 80091	CONSTR. CONTR. NO. 02470-BE-041
SATISFACTORY TO:		DATE:	SCALE: GRAPHIC SPEC. 05-86-5412 SHEET 9 OF 13

FIXTURE SCHEDULE

FIXTURE SYMBOL	STYLE AND TYPE - SEE SPECS. FOR NAVFAC SKETCH NO.	NUMBER AND TYPE OF LAMPS	VOLTS	MOUNTING	REMARKS
△	NL-13	1-G.O.W A-19	120	WALL ABOVE DOOR LINTEL	SEE FIXTURE PLATE

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



GENERAL NEW WORK NOTES BLDG. 1041

- THE CONTRACTOR MAY REUSE THOSE EXISTING CONDUIT SYSTEMS UTILIZED FOR BRANCH CIRCUITS TO LIGHTING FIXTURES.
- THE CONTRACTOR SHALL PROVIDE NEW INSULATION WHERE EXISTING INSULATION HAS BEEN REMOVED AS A RESULT OF THE WORK.
- 120 VOLT BRANCH CIRCUITS FEEDING LIGHTING FIXTURES AND DUPLEX RECEPTACLES WHICH EXCEED 90" IN OVERALL LENGTH SHALL BE WIRED WITH #10 AWG WIRE. ALL LIGHTING CIRCUITS TO BE RUN WITH EQUIPMENT GROUND.
- THE CONTRACTOR SHALL PROVIDE CORRECTLY SIZED FUSES FOR ALL DISCONNECT SWITCHES TO COORDINATE WITH THE ASSOCIATED LOAD SIDE CONDUCTORS. CONDUCTOR RATED AMPACITIES SHALL BE PER THE NATIONAL ELECTRICAL CODE, ARTICLE 310, TABLE 310-16.

IDP PANEL SCHEDULE MESS HALL

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA 1 3Ø 4W
VOLTS 277/480V MAIN 125A MESH SHORT CKT. RATING 22,000 A RMS SYM

CKT. NO.	BRKR. TRIP	DESCRIPTION	PHASE LOADING			CKT. NO.	BRKR. TRIP	DESCRIPTION	PHASE LOADING		
			A	B	C				A	B	C
1	60/3	MESS HALL CONDENSER UNIT	10705			2	100/2	400-120/240 TRANSFORMER	12500		
3	20/3	MESS HALL AIR HANDLER	1275			4		5/0			
5		5/0				6					
						8					
						10					
						12					
						14					
						16					

SUBTOTAL 11980 11980 11980 SUBTOTAL 12500 12500
TOTAL PANEL LOAD: A0 88A B0 88A C0 45A
NOTES NEUTRAL TERMINAL BAR
GROUND TERMINAL BAR

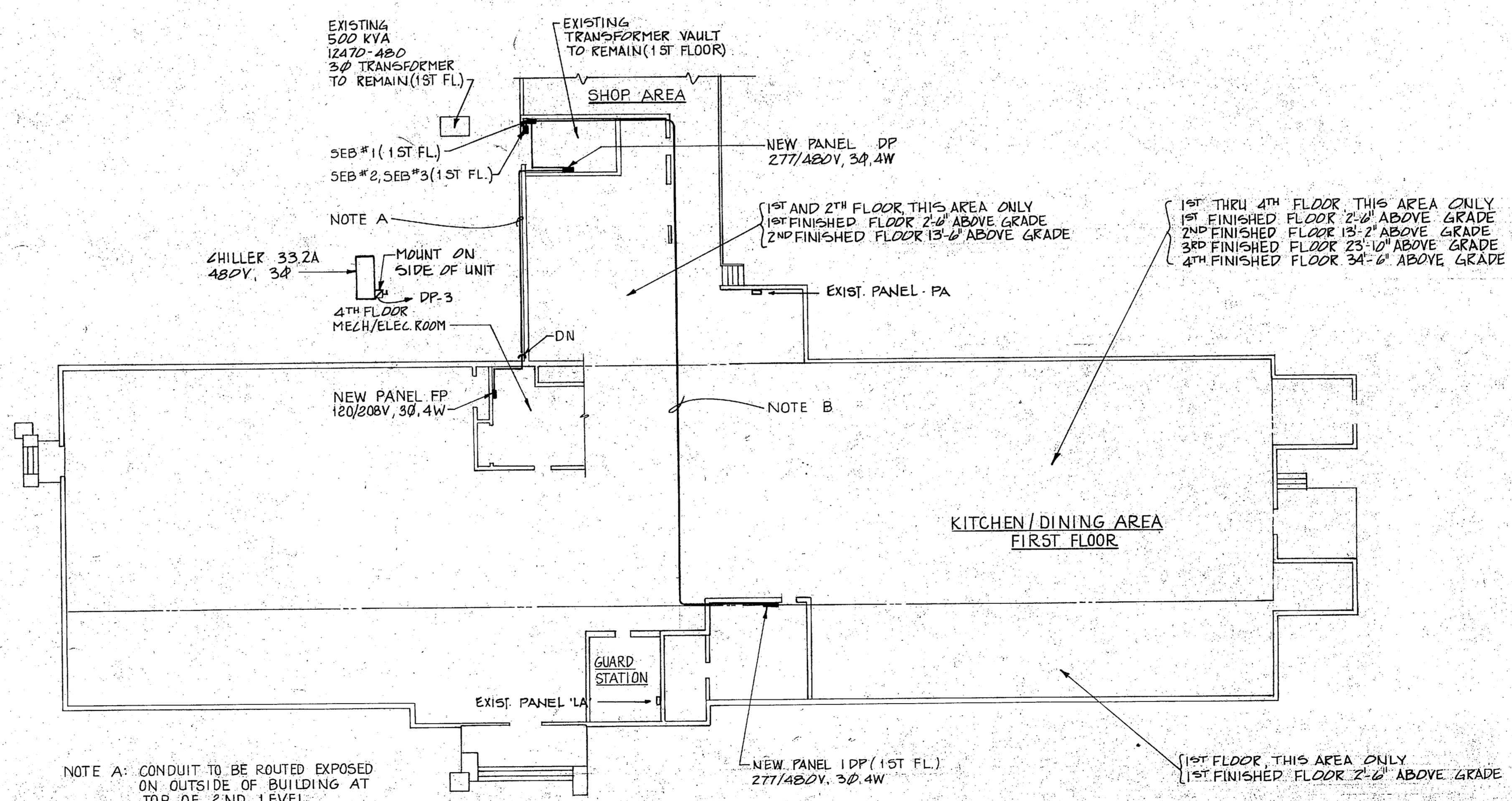
LC PANEL SCHEDULE (RATED FOR SERVICE EQUIPMENT)

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA 4 1Ø 3W
VOLTS 120/240V MAIN 125A MESH SHORT CKT. RATING 10,000 A RMS SYM

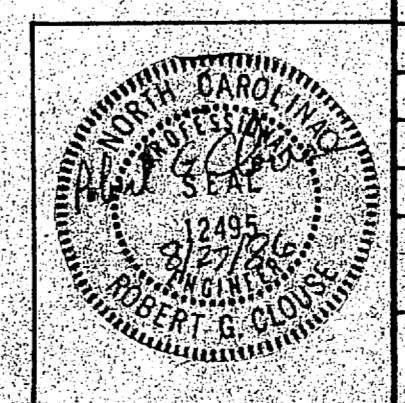
CKT. NO.	BRKR. TRIP	DESCRIPTION	PHASE LOADING			CKT. NO.	BRKR. TRIP	DESCRIPTION	PHASE LOADING		
			A	B	C				A	B	C
1	30/2	PASS THRU UNIT-HEATER	2043			2	30/2	COFFEE MAKER	2300		
3	20/1	PASS THRU UNIT-REFRIG.	1410			4	20/1	HEAT LAMPS	1250		
5	20/1	HEAT LAMPS		1250		6		SPARE			
7		5/0				8					
9						10		5/0			
11						12					
13						14					

SUBTOTAL 3453 3293 SUBTOTAL 3200 2300
TOTAL PANEL LOAD: A0 58A B0 47A
NOTES NEUTRAL TERMINAL BAR
GROUND TERMINAL BAR

REFERENCE SHEET E-2 FOR PANELS IDP & LC LOCATIONS.



PANEL LOCATIONS BUILDING PLAN
SCALE: 1/16" = 1'-0"

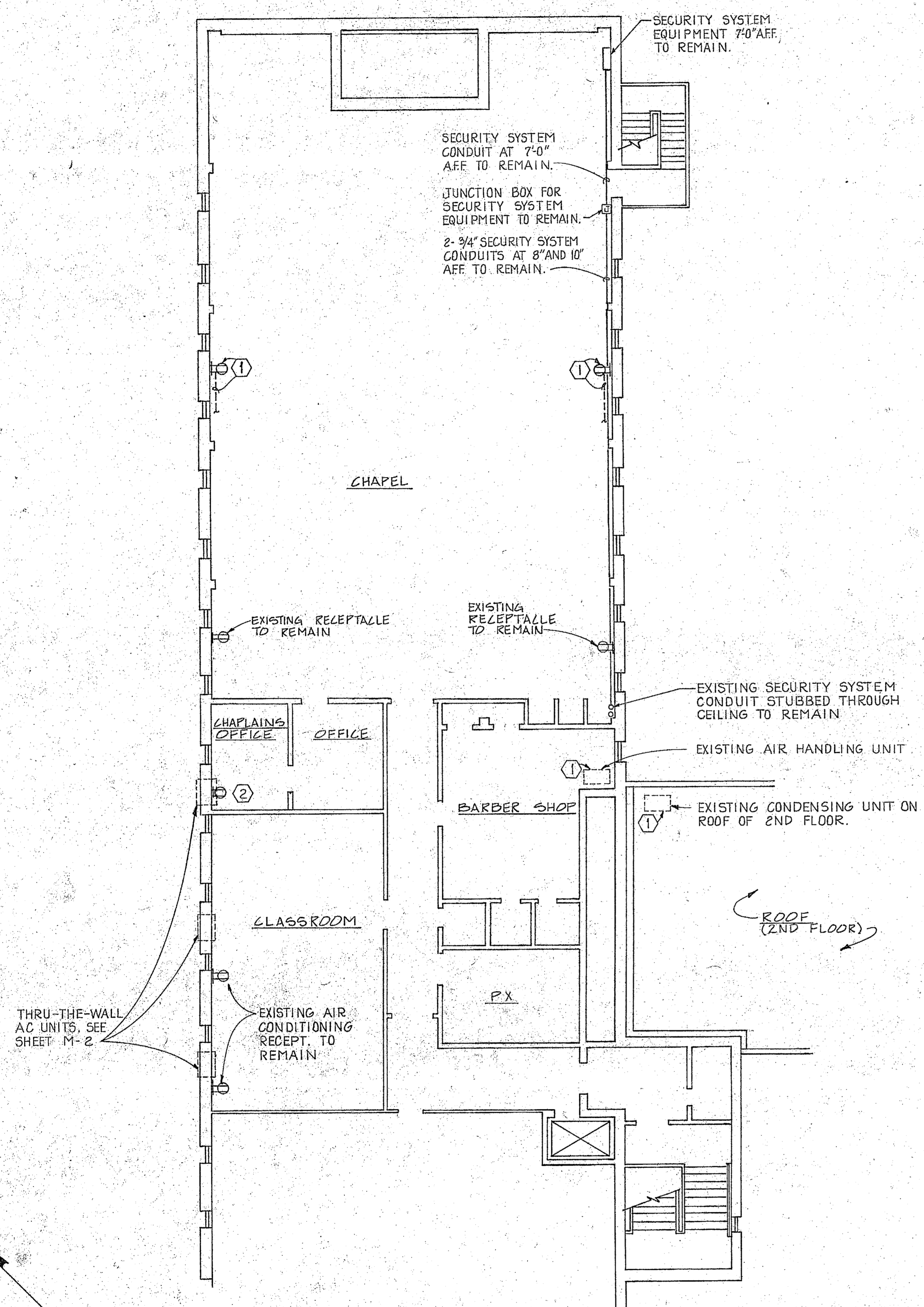


MCKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. GBH DR. JLF, PRS CHK. RGC		BUILDING 1041 AIR CONDITIONING SYSTEM	
SUBMITTED BY: DESIGN DIR. <i>ML</i>		BUILDING PLAN, SCHEDULES, & PLATES	
APPROVED: PWO OR OIC	DATE: <i>Nov 17-87</i>	SIZE: F	CODE IDENT. NO.: 80091
SATISFACTORY TO:	DATE:	NAVFAC DRAWING NO.: 4192629	CONST. CONTR. NO. N62420-86-05411
SCALE: GRAPHIC		SPEC 05-86-5411 SHEET 10 OF 13	



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

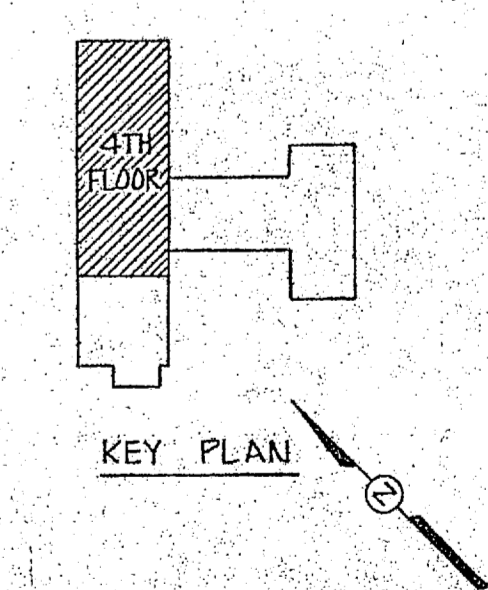
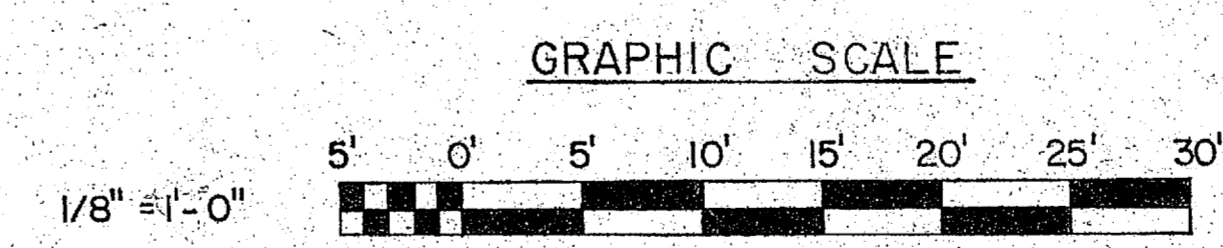
GENERAL DEMOLITION NOTES-BLDG. 1041	
1.	REMOVE WIRES FROM DISCONNECTED CIRCUITS BETWEEN SOURCE AND UTILIZATION DEVICE.
2.	REMOVE ALL EXPOSED CONDUIT ASSOCIATED WITH SURFACE MOUNTED EQUIPMENT WHICH IS TO BE REMOVED. CUT BACK TO ABOVE CEILING.
3.	ALL WALLS AND CEILINGS DAMAGED BY THE DEMOLITION WORK SHALL BE REPAIRED AND PAINTED OR TILE REPLACED AS REQUIRED TO MATCH EXISTING CONDITIONS.
4.	ALL CEILING TILES DAMAGED DURING THE COURSE OF THE WORK SHALL BE REPLACED. NEW TILES SHALL MATCH EXISTING.
5.	FLOORS DAMAGED BY THE DEMOLITION WORK SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.



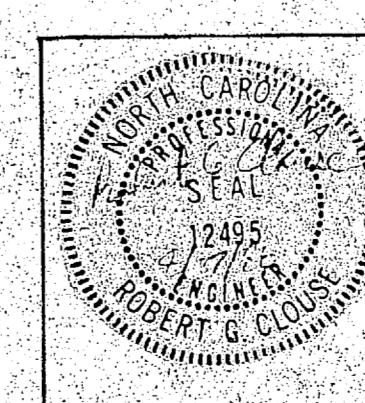
FOURTH FLOOR DEMOLITION

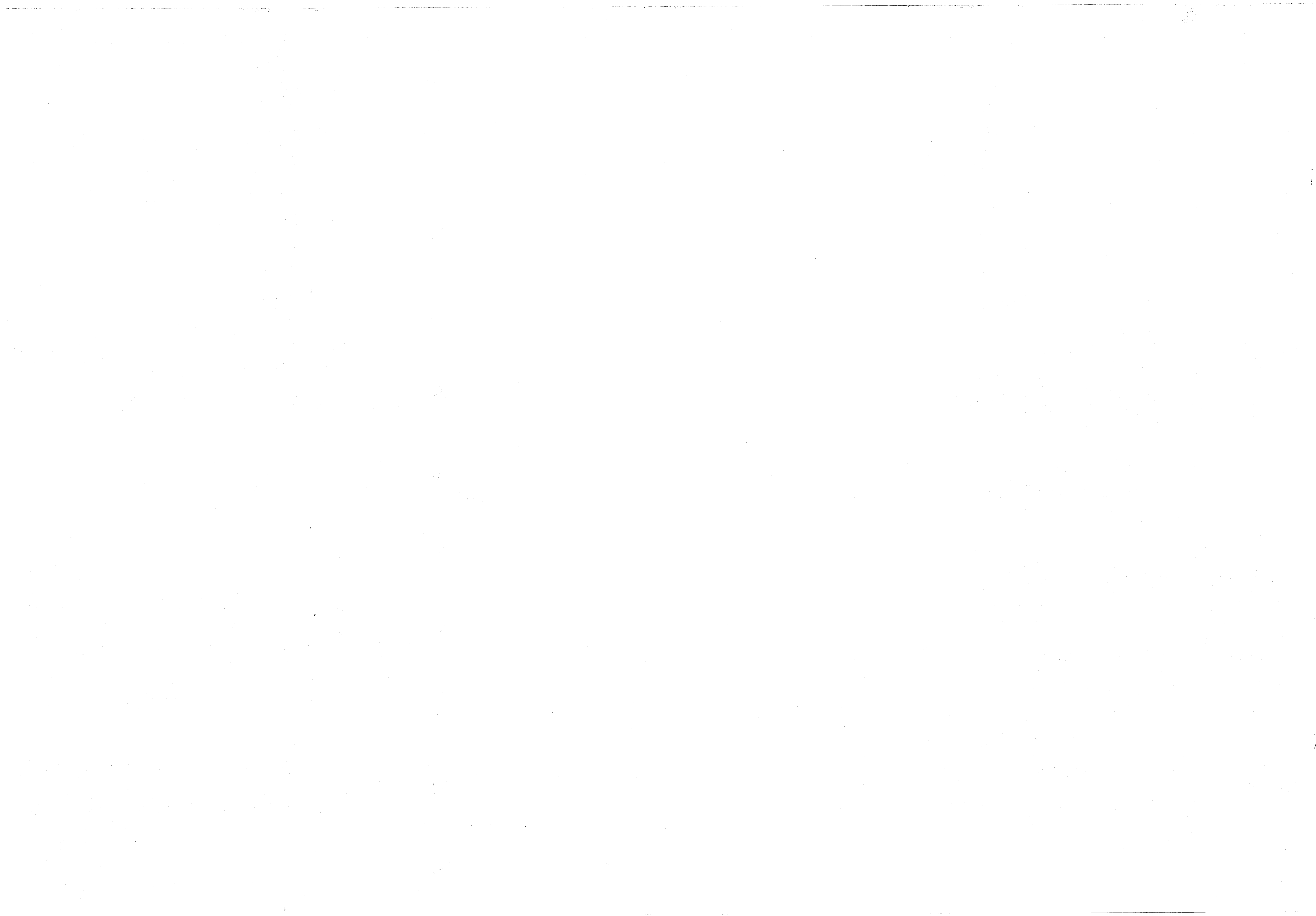
SCALE: 1/8" = 1'-0"

- ① REMOVE EXPOSED CONDUIT BACK TO LOCATION OF RELOCATED RECEPTACLE. PULL WIRE BACK TO NEW LOCATION, RECONNECT TO RELOCATED RECEPTACLE.
- ② COVER WITH BLANK OUTLET PLATE.



McKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. GBH		E-4	
DR. J.L.F. PRS		BUILDING 1041	
CHK. B.G.C.		AIR CONDITIONING SYSTEM	
SUBMITTED BY:		FOURTH FLOOR-DEMOLITION	
DESIGN DIR. <i>M</i>		NAVFAC DRAWING NO. 4152630	
APPROVED: PWD OR OIC DATE <i>11-17-87</i>		SIZE F CODE IDENT. NO. 80091	
SATISFACTORY TO: DATE		CONSTR. CONTR. NO. N62470-86-5411	
SCALE: GRAPHIC		SPEC. 05-66-5411 SHEET 11 OF 13	



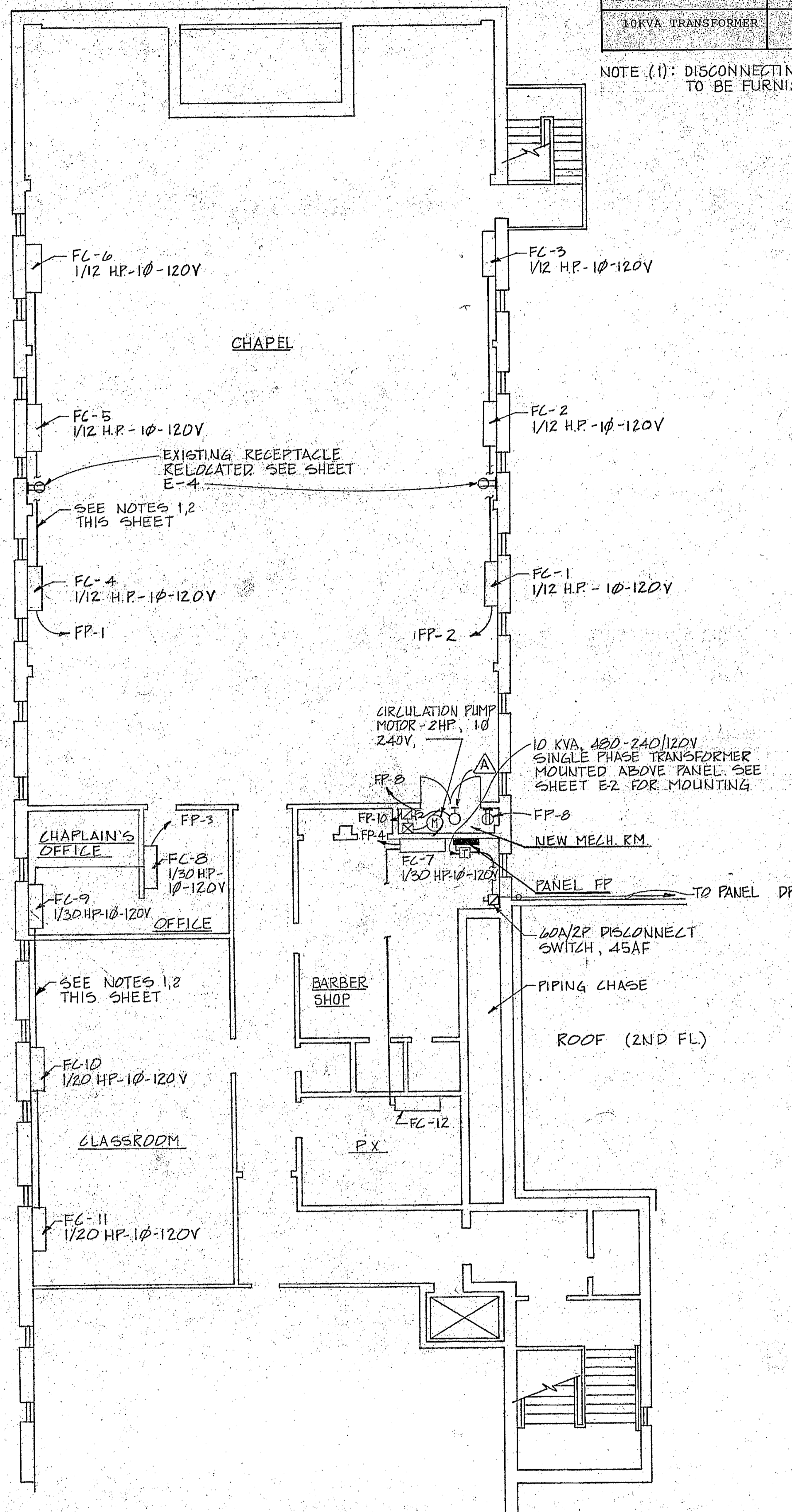


SCHEDULE OF ELECTRICAL CONNECTION

DESCRIPTION	HP	AMPS	KW	Ø	VOLTS	FEEDER	DISCONNECT	REMARKS
FAN COIL UNITS	AS SHOWN				120	2 #12, 1 #12 GND IN 3/4"	(1)	INTERNALLY PROTECTED
CIRCULATION PUMP	1				240	2 #10, 1 #12 GND IN 3/4"	30A/3P	SIZE 0 STARTER W/10V CONT TRANSF DISC. SWITCH W/10A/3P
CHILLER		9.4			460	3 #4, 1 #8 GND IN	100A/3P 70AF NEMA 3R	FINAL CONNECTION TO BE 3 #4, 1 #8 GND IN LIQUID TIGHT FLEX
2 FANS		1.8			460			
10KVA TRANSFORMER		21	10 KVA	1	480-120/240	SEE POWER RISER DIAGRAM SEE THIS SHEET		USE 45A/2P BREAKER ON PRIMARY 50A/2P BREAKER ON SECONDARY

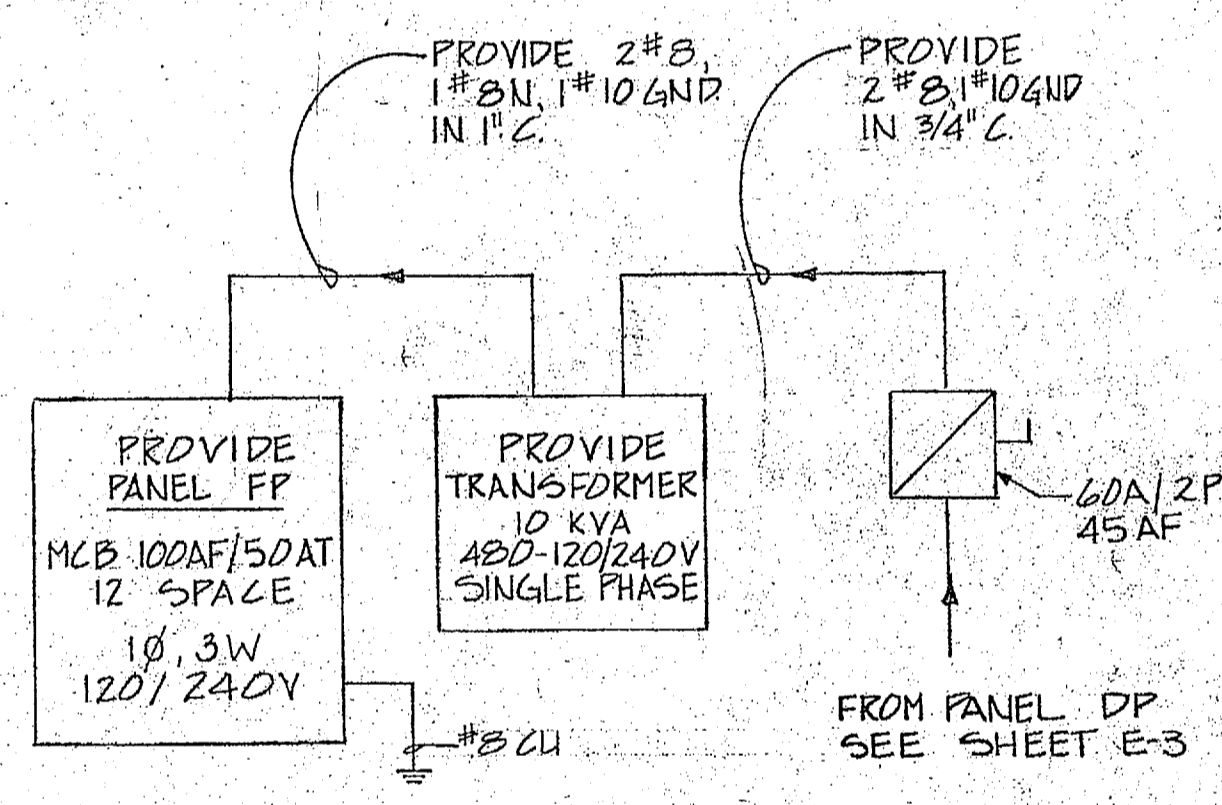
NOTE (1): DISCONNECTING MEANS INTEGRAL TO MECHANICAL EQUIPMENT TO BE FURNISHED BY FAN COIL MANUFACTURER.

REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED



FOURTH FLOOR NEW WORK
SCALE: 1/8" = 1'-0"

- NOTES:
- ALL BRANCH CIRCUITS FEEDING FAN COILS ARE TO BE 2#12, 1#12 GND IN 3/4"
 - CONDUIT FOR FAN COIL UNITS TO BE EXPOSED AND ROUTED THROUGH THE BOTTOM OF THE UNIT SEE MECH. DETAIL, SHEET M-3



FOURTH FLOOR POWER RISER
NOT TO SCALE

PANEL SCHEDULE (4TH FLOOR PANEL) RATED FOR SERVICE EQUIPMENT

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA 1 3Ø 4W
VOLTS 120/240V MAIN 100 MCB SHORT CKT. RATING 10,000A RMS SYM

CKT. NO.	CKT. BRKR. TRIP	DESCRIPTION	PHASE LOADING			CKT. NO.	CKT. BRKR. TRIP	DESCRIPTION	PHASE LOADING		
			A	B	C				A	B	C
1	20/1	FC UNITS 4,5,6	420			2	20/1	FC UNITS 1,2,3	420		
3	1	FC UNITS 8,9,10,11		330		4	4	FC UNITS 7		75	
5	1	SPARE				6	6	RECEPT.		180	
7		5/0				8	1	LIGHT & REL. MECH		460	
9						10	30/2	CIRCULATION PUMP		440	
11										1440	

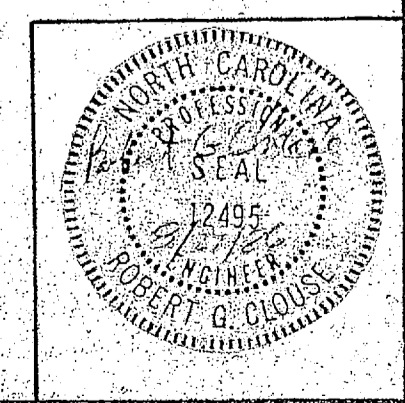
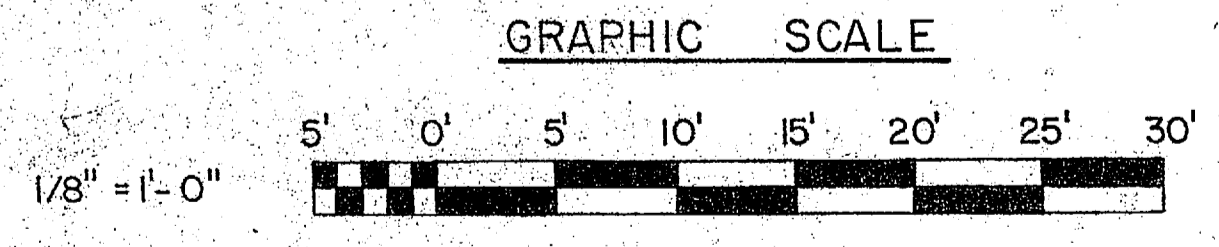
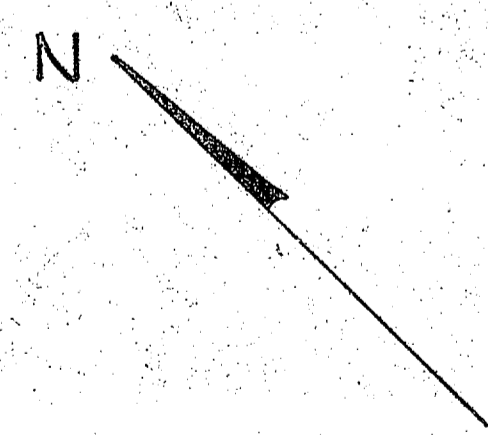
SUBTOTAL 420 330 0
TOTAL PANEL LOAD: A 0 205A B 0 192A C 0
NOTES * PROVIDE 100AF/50AT MAIN CIRCUIT BREAKER NEUTRAL TERMINAL BAR
GROUND TERMINAL BAR

PANEL SCHEDULE (IN VAULT)

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA 1 3Ø 4W
VOLTS 277/480V MAIN 125A MCB SHORT CKT. RATING 22,000A RMS SYM

CKT. NO.	CKT. BRKR. TRIP	DESCRIPTION	PHASE LOADING			CKT. NO.	CKT. BRKR. TRIP	DESCRIPTION	PHASE LOADING		
			A	B	C				A	B	C
1	70/3	CHILLER	9695			2	5/0				
3	45/2	10KVA TRANSFORMER	5000	5000		4	5/0				
5		5/0				6	5/0				

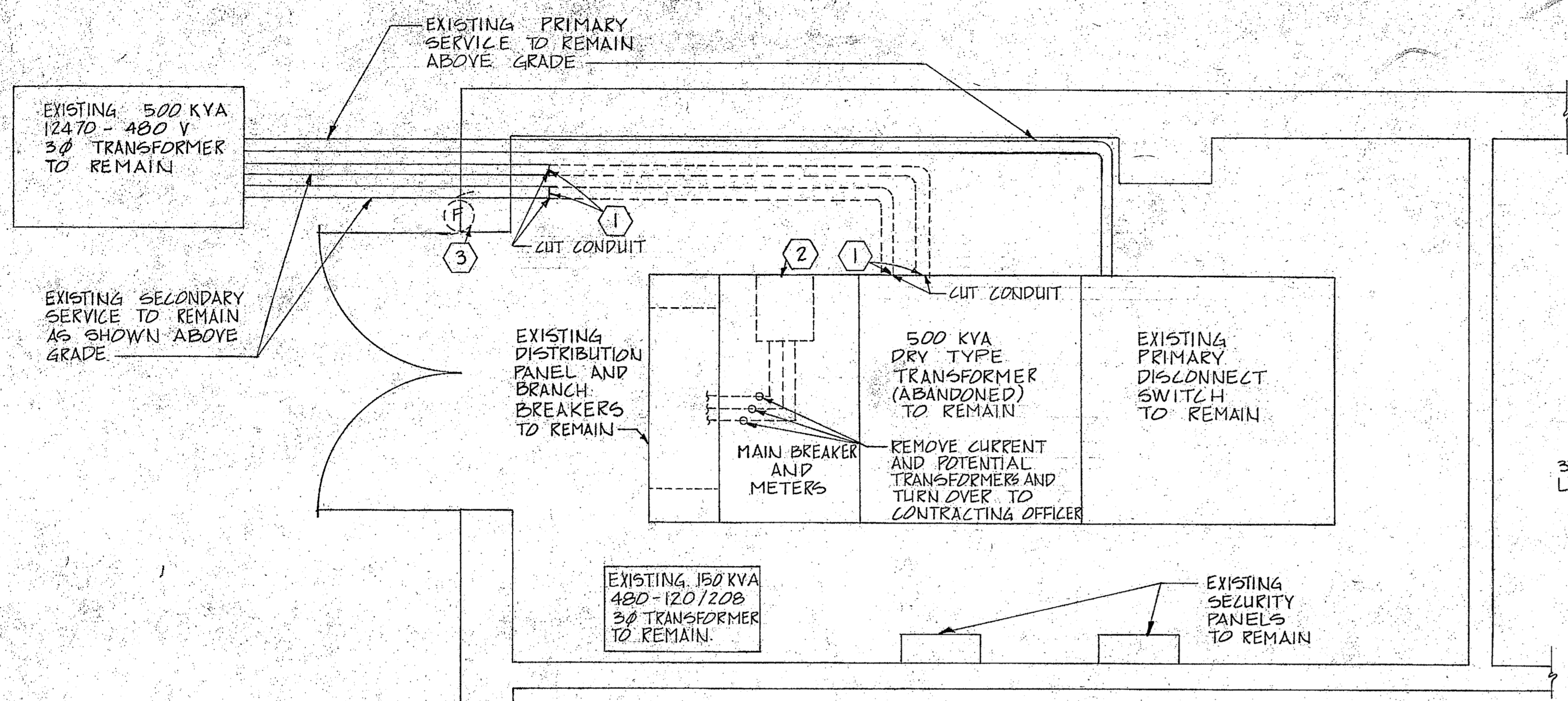
SUBTOTAL 14695 14695 9695
TOTAL PANEL LOAD: A 0 127A B 0 127A C 0 84A
NOTES NEUTRAL TERMINAL BAR
GROUND TERMINAL BAR



MCKIM & CREED ENGINEERS, P.A. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
DES. ZFK DR. JLF CHK. RGC SUBMITTED BY:		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DESIGN DIR. JEC APPROVED: PWO OR OICC DATE 4-17-87		BUILDING 1041 AIR CONDITIONING SYSTEM FOURTH FLOOR-NEW WORK	
SATISFACTORY TO:		SIZE F CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 4152631 CONSTR. CONTR. NO. N62470-86-B-5411
		SCALE: GRAPHIC	SPEC. Q5-86-5411 SHEET 12 OF 13

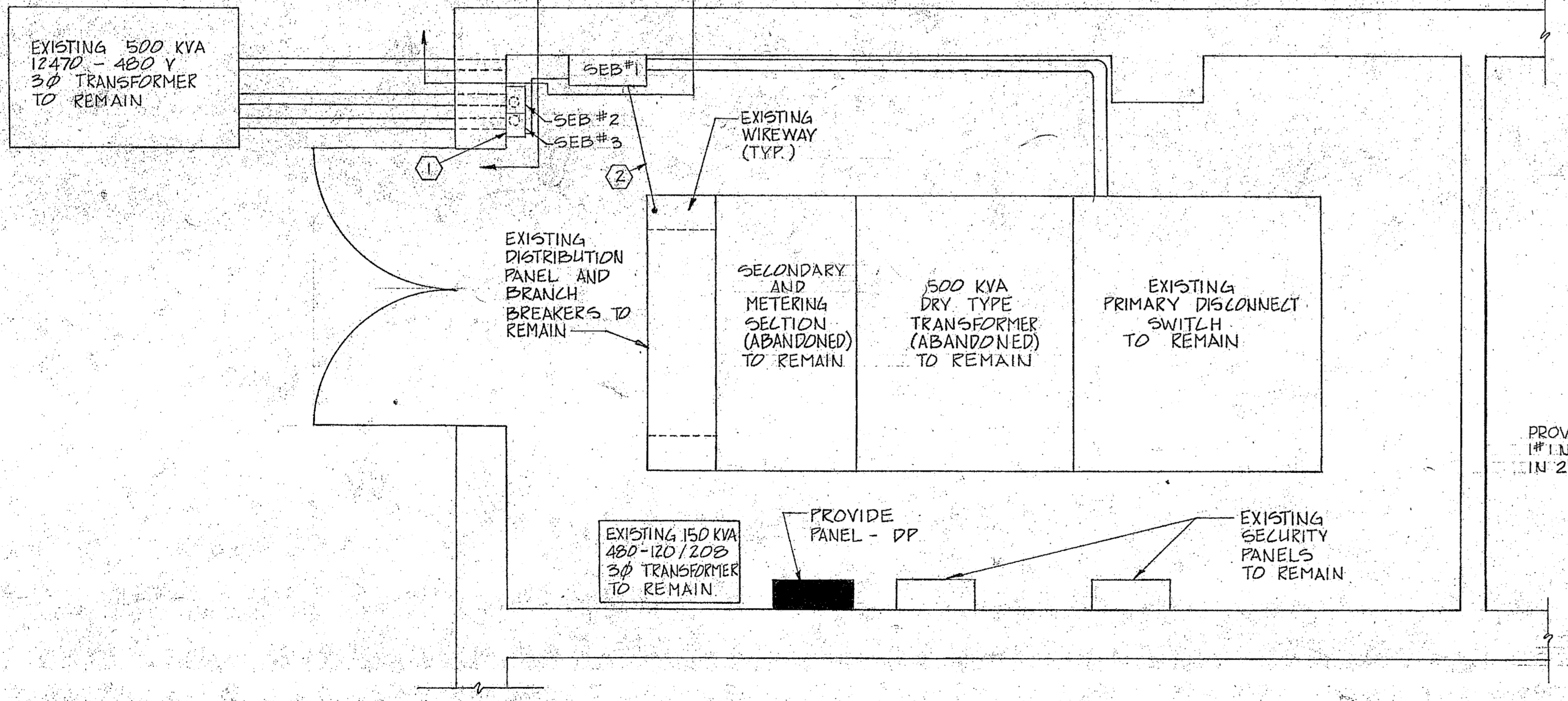


REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



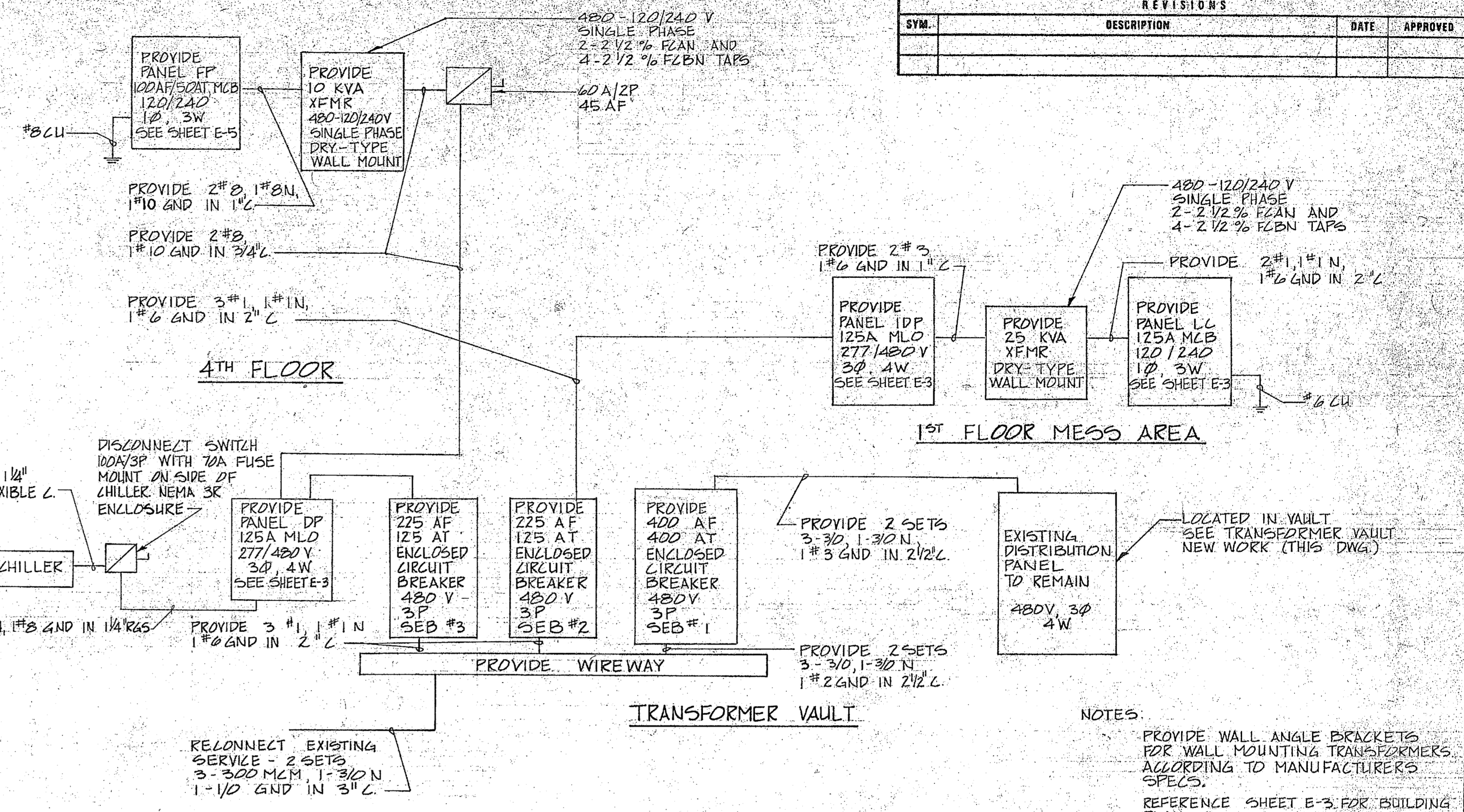
TRANSFORMER VAULT (DEMOLITION)
SCALE: 1/2" = 1'-0"

- DEMOLITION NOTES:**
- DISCONNECT SECONDARY WIRING FROM THE ABANDONED TRANSFORMER. CUT 3" SECONDARY RACEWAY AT POINTS INDICATED ON DRAWING. RE-USE SECONDARY WIRING FOR CONNECTION TO NEW SERVICE ENTRANCE CIRCUIT BREAKERS.
 - REMOVE 600A MAIN CIRCUIT BREAKER WITH ALL ASSOCIATED COPPER BUSWAY TO DISTRIBUTION PANEL AND TURN OVER TO CONTRACTING OFFICER. COVER CIRCUIT BREAKER SPACE WITH COVER PLATE OF SIMILAR GAUGE STEEL AS THE SURROUNDING MATERIAL. LABEL METERING DEVICES ABOVE BREAKER SPACE AS "OUT OF SERVICE".
 - DE-ENERGIZE BRANCH CIRCUIT SUPPLYING EXHAUST FAN MOTOR. CUT CONDUIT AND REMOVE CONDUIT AND WIRING LABEL BREAKER IN DISTRIBUTION PANEL AS "SPACE".



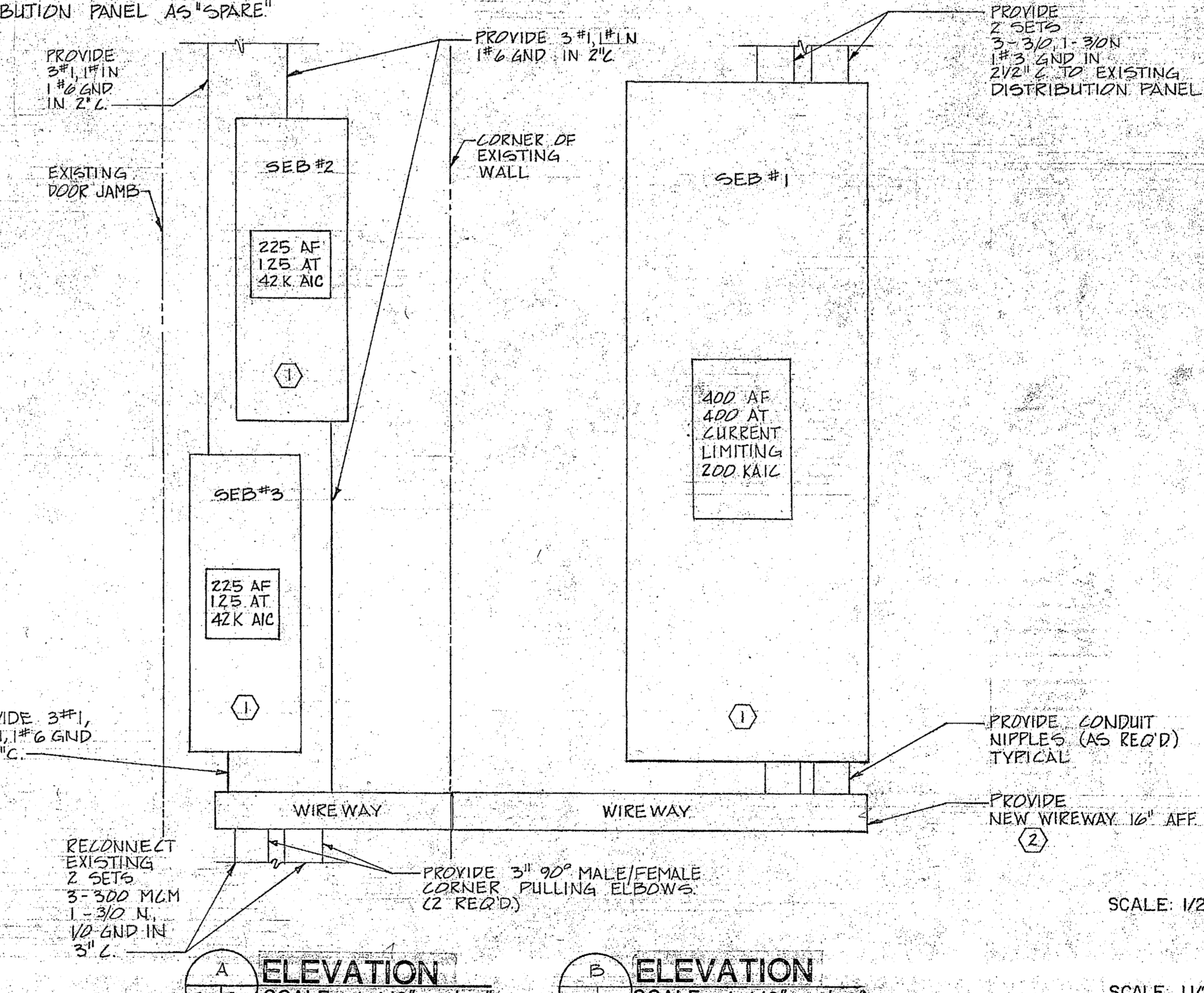
TRANSFORMER VAULT (NEW WORK)
SCALE: 1/2" = 1'-0"

- NEW WORK NOTES:**
- PROVIDE NEW SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKERS IN NEMA 1Z ENCLOSURES. RE-USE INCOMING SECONDARY SERVICE AND STUD UP INTO WIREWAY.
 - REFEED EXISTING DISTRIBUTION PANEL THROUGH EXISTING WIREWAY FROM NEW 400A/3P ENCLOSED CIRCUIT BREAKER SEB #1; PROVIDE 2 SETS 3-3/0, 1-3/0 N, 1-1/0 GND IN 2 1/2" C.



MAIN POWER RISER
NOT TO SCALE (SCHEMATIC)

NOTES:
PROVIDE WALL ANGLE BRACKETS FOR WALL MOUNTING TRANSFORMERS ACCORDING TO MANUFACTURER'S SPECS.
REFERENCE SHEET E-3 FOR BUILDING PLAN



SERVICE ENTRANCE ELEVATION
SCALE: 1 1/2" = 1'-0"

- RATED FOR SERVICE ENTRANCE. PROVIDE NAMEPLATE DATA LABELING PANELS AS "SERVICE ENTRANCE DISCONNECT".
- WIREWAY SHALL BE APPROXIMATELY 4'-6" x 12" x 12", FIELD VERIFY.



E-6	
MCKIM BREED ENGINEERS, PA. 243 N. FRONT STREET WILMINGTON, NORTH CAROLINA	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. JLF CHK. RGC SUBMITTED BY: DESIGN DIR. APPROVED: PWO OR DICG DATE: 4-17-08	
BUILDING 1041 AIR CONDITIONING SYSTEM TRANSFORMER VAULT	
SIZE: F	CODE IDENT. NO.: 80091
DATE: 4-17-08	NAVFAC DRAWING NO.: 4152632
SATISFACTORY TO:	CONSTR. CONTR. NO. N62470-85-C-6392
SCALE: GRAPHIC	SPEC: 05-85-6392
SHEET 13 OF 13	

