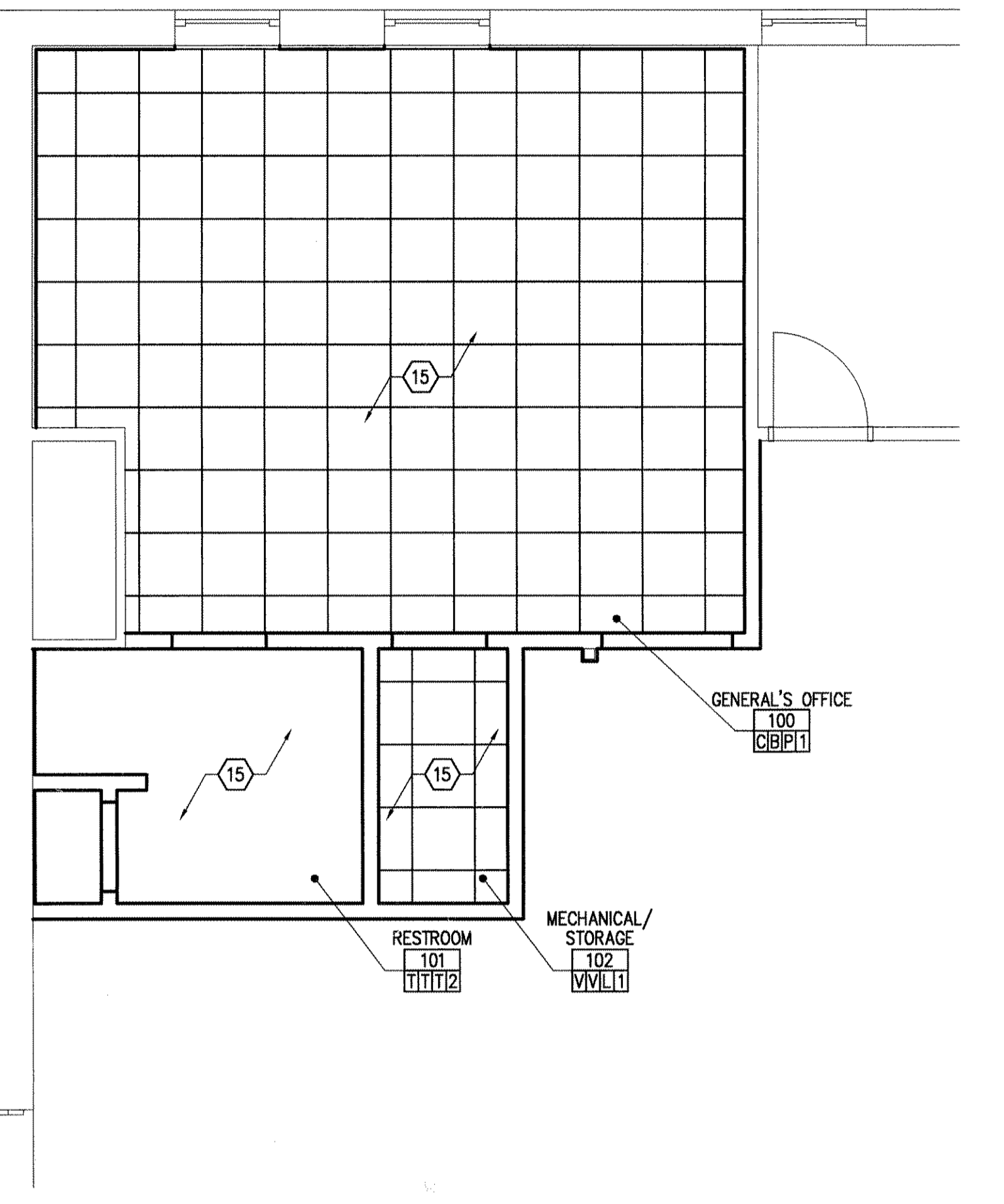
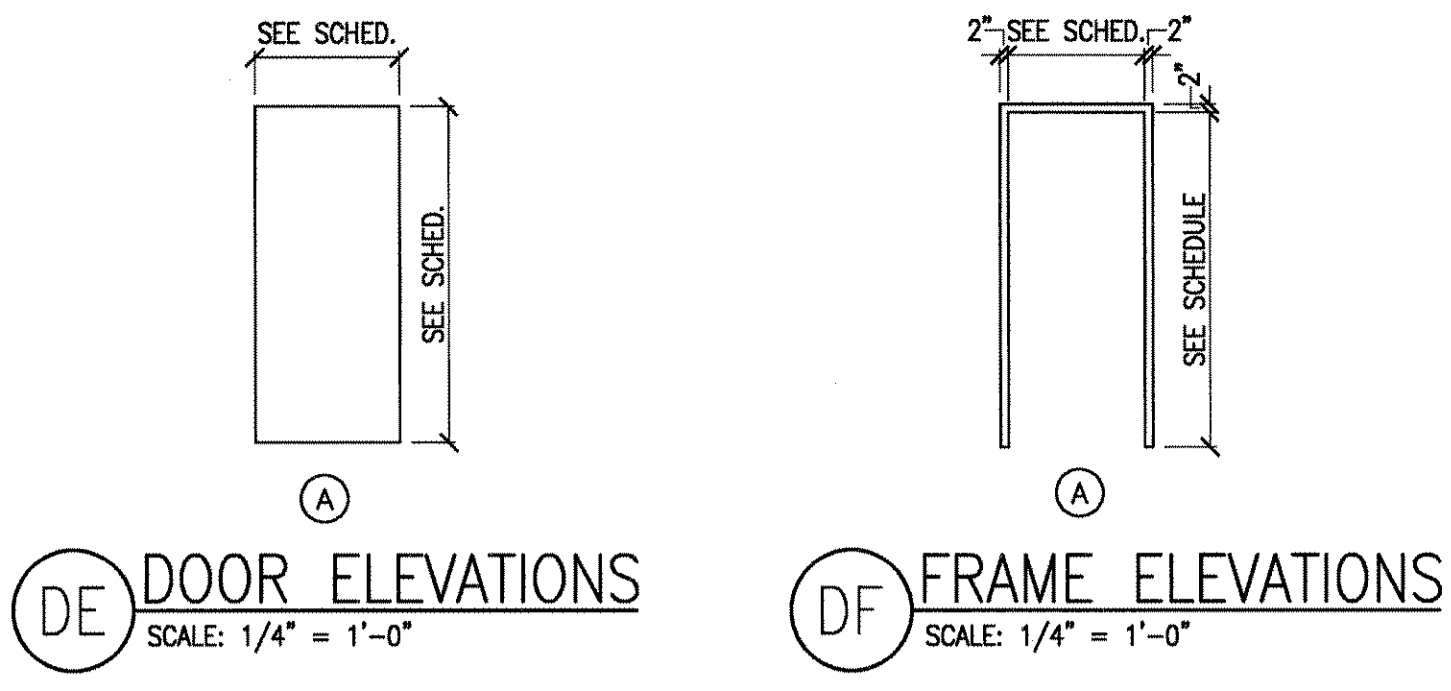
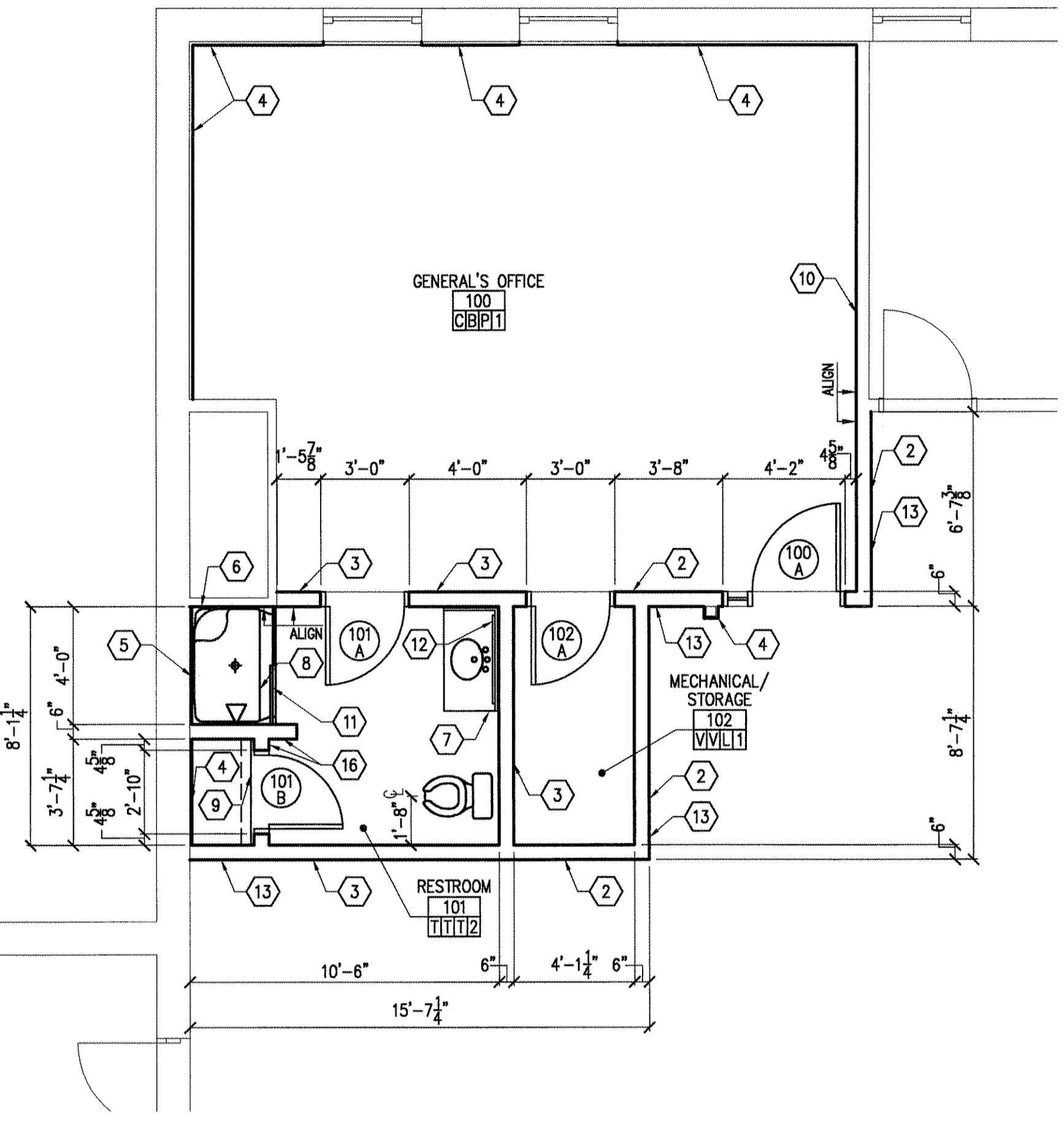


DOOR SCHEDULE														
DOOR NUMBER	TYPE	ELEV	SIZE	MATERIAL	GLAZING	ELEV	MATERIAL	HEAD	JAMB	SILL	FIRE RATING	HARDWARE SET	REMARKS	DOOR NUMBER
100A	SINGLE	A	3'-0" x 7'-0"	S.C. WD.	-	A	H.M.	3	2	1	-	-	8" SIDE LITE GLAZING & HINGE PIN DOOR STOP	100A
101A	SINGLE	A	2'-8" x 7'-0"	S.C. WD.	-	A	H.M.	3	5	4	-	-	HINGE PIN DOOR STOP	101A
101B	SINGLE	A	2'-6" x 7'-0"	S.C. WD.	-	A	H.M.	3	5	-	-	-	HINGE PIN DOOR STOP	101B
102A	SINGLE	A	2'-8" x 7'-0"	S.C. WD.	-	A	H.M.	3	5	4	-	-	HINGE PIN DOOR STOP	102A

ABBREVIATIONS: H.M. - HOLLOW METAL S.C. WD. - SOLID CORE WOOD DOOR ALUM. - ALUMINUM O.H. - OVERHEAD DOOR  
 TN - TINTED INSUL - INSULATED TP - TEMPERED



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



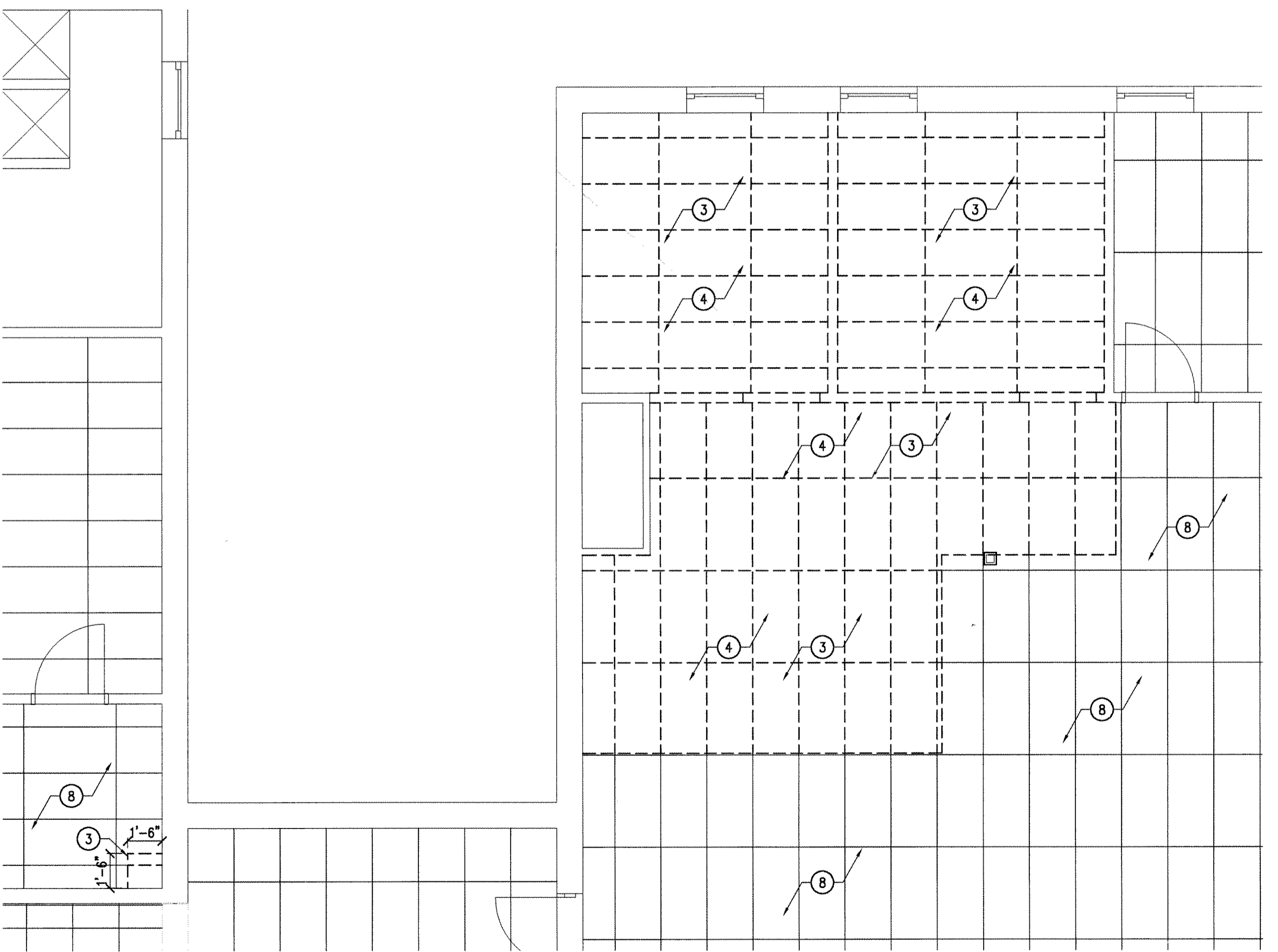
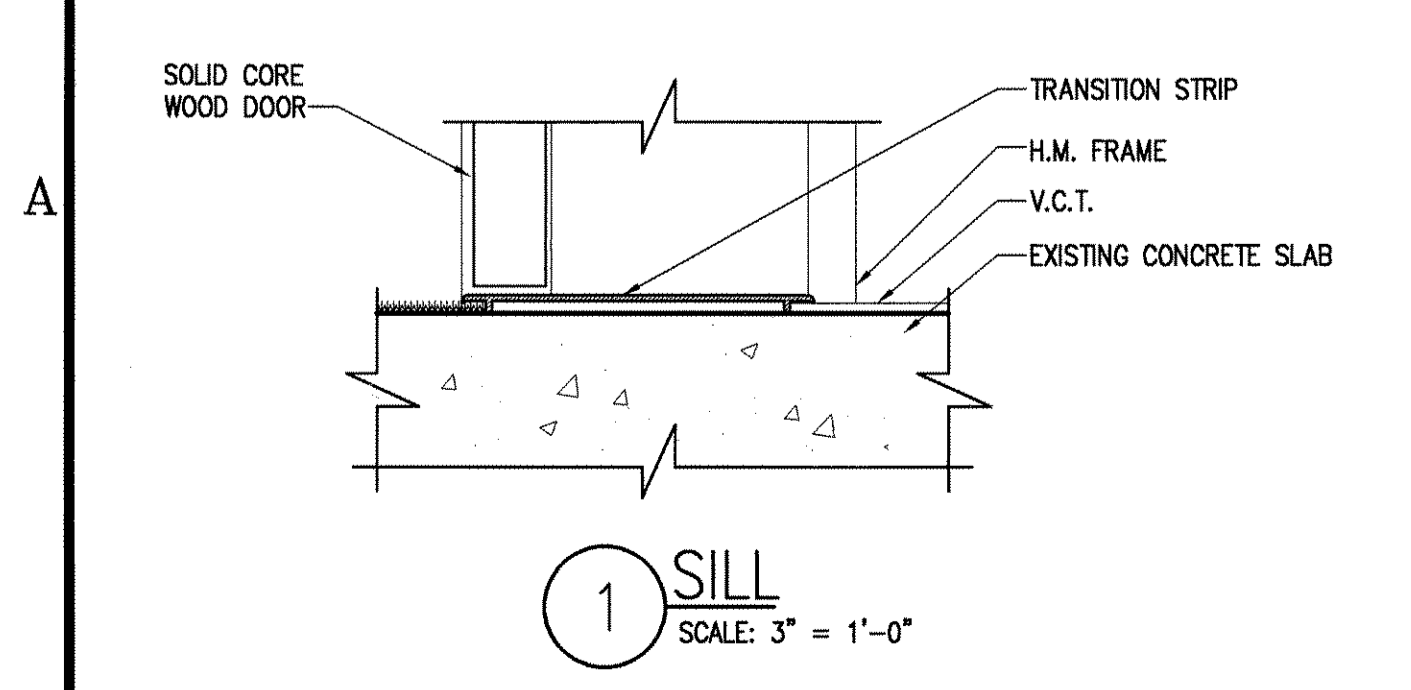
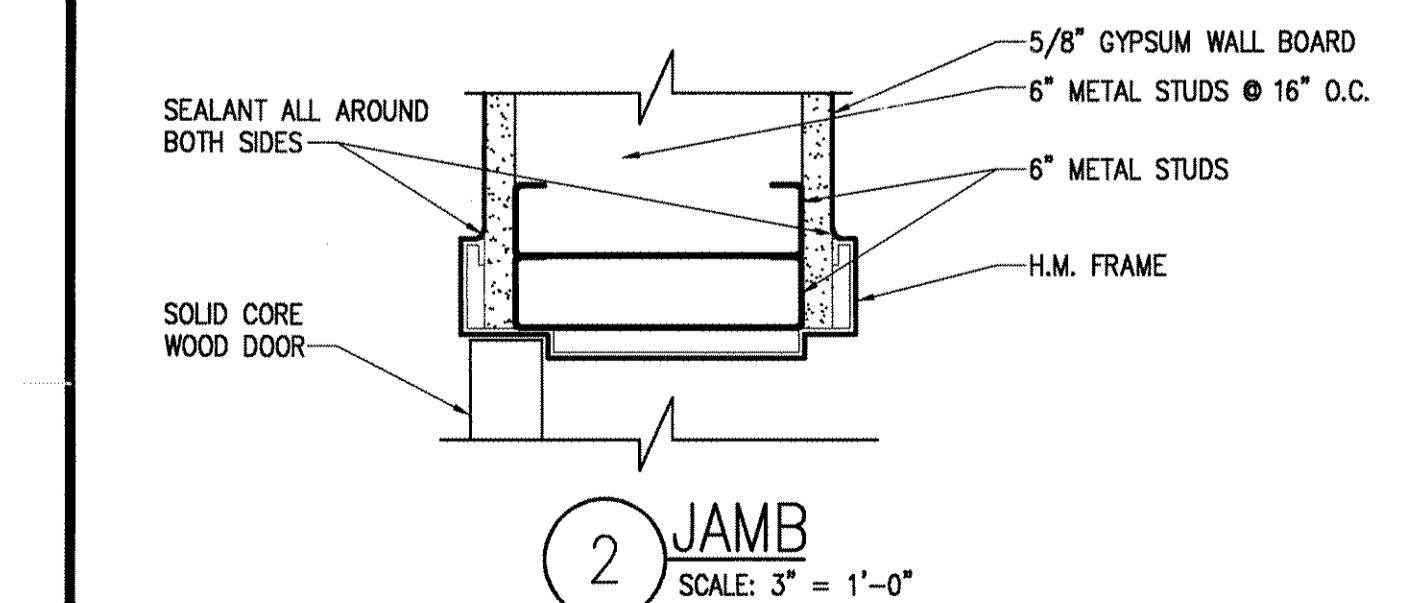
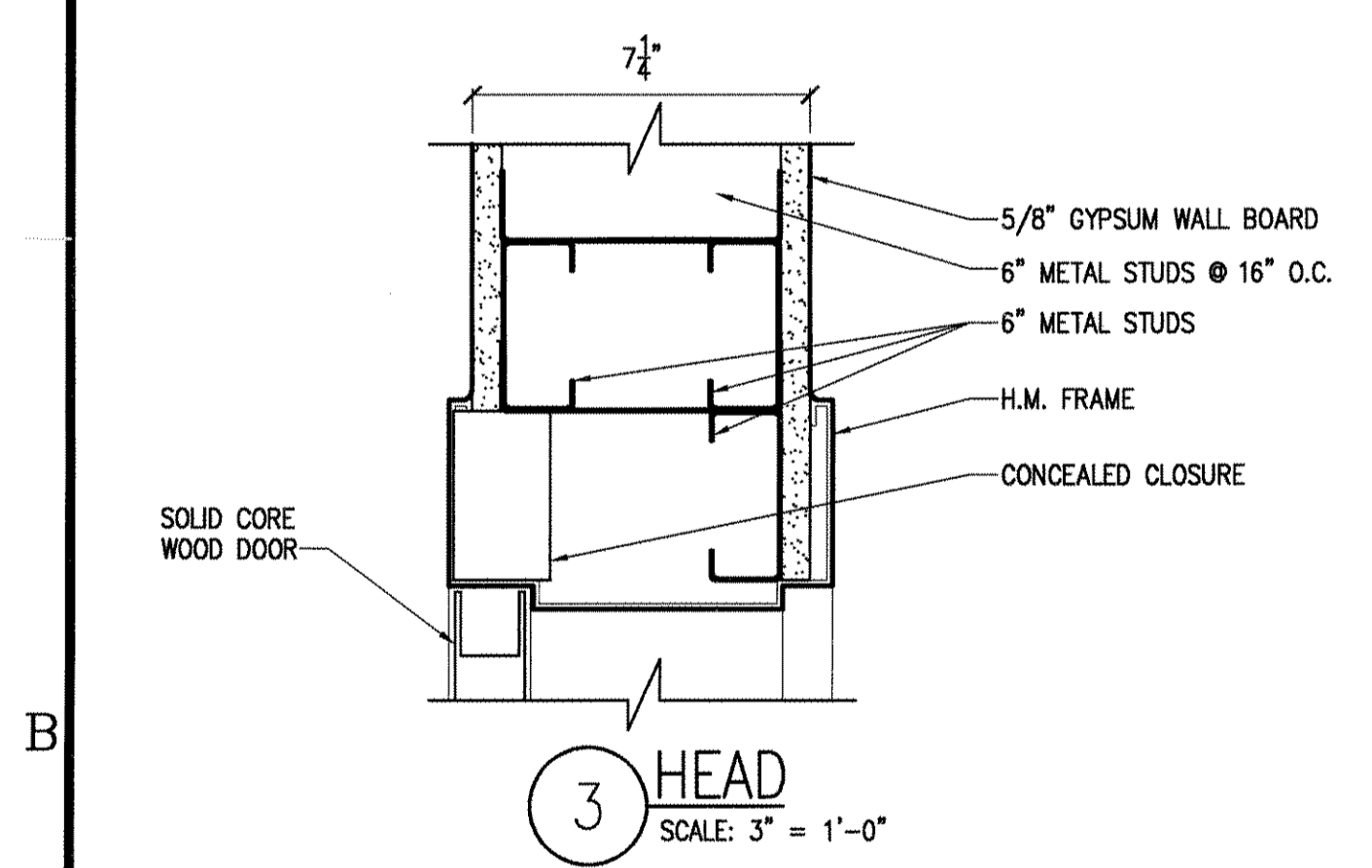
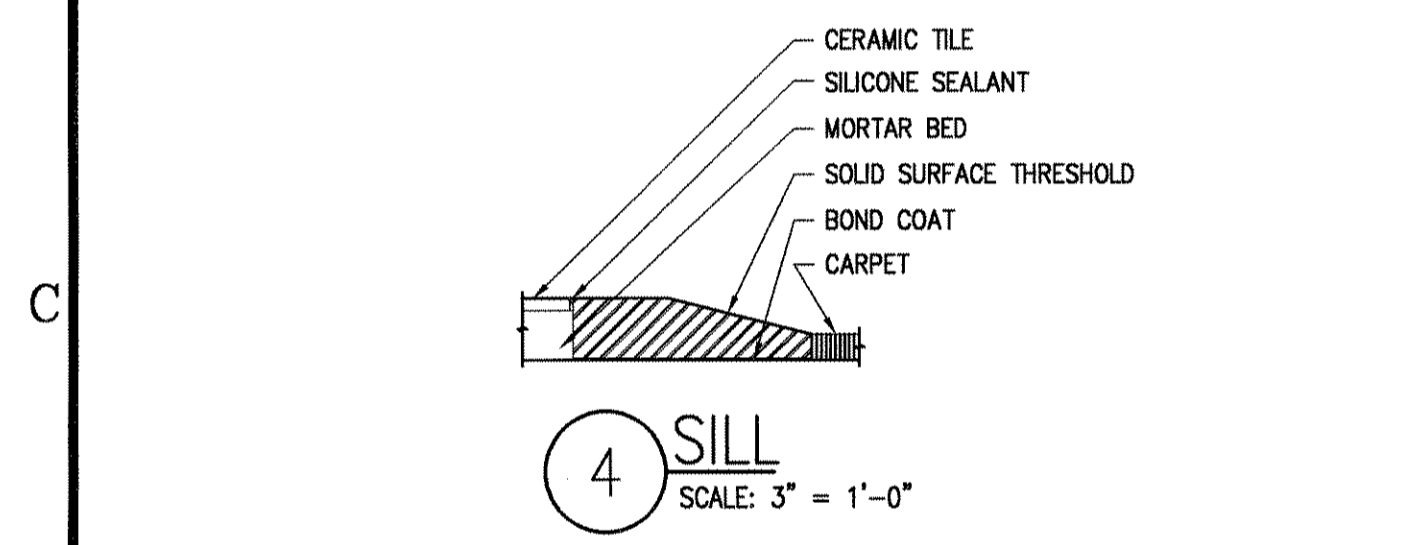
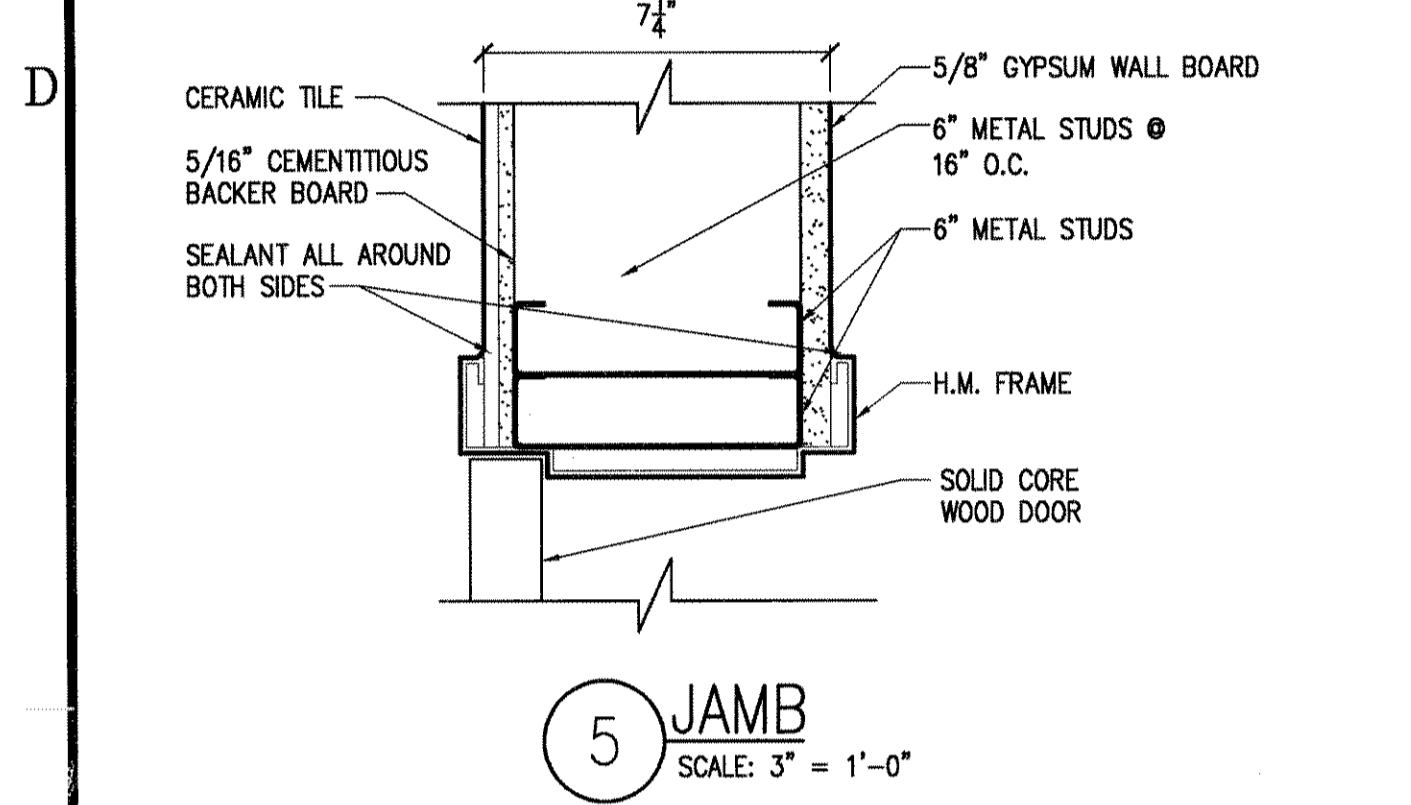
**B PARTIAL SECOND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- VERIFY ALL DIMENSIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
  - DIMENSIONS SHOWN ARE FROM/TO FACE OF C.M.U., OR METAL STUDS UNLESS NOTED OTHERWISE.
  - DO NOT SCALE FROM DOCUMENTS.
  - PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
  - ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
  - REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING WORK PERTAINING TO THIS PROJECT.

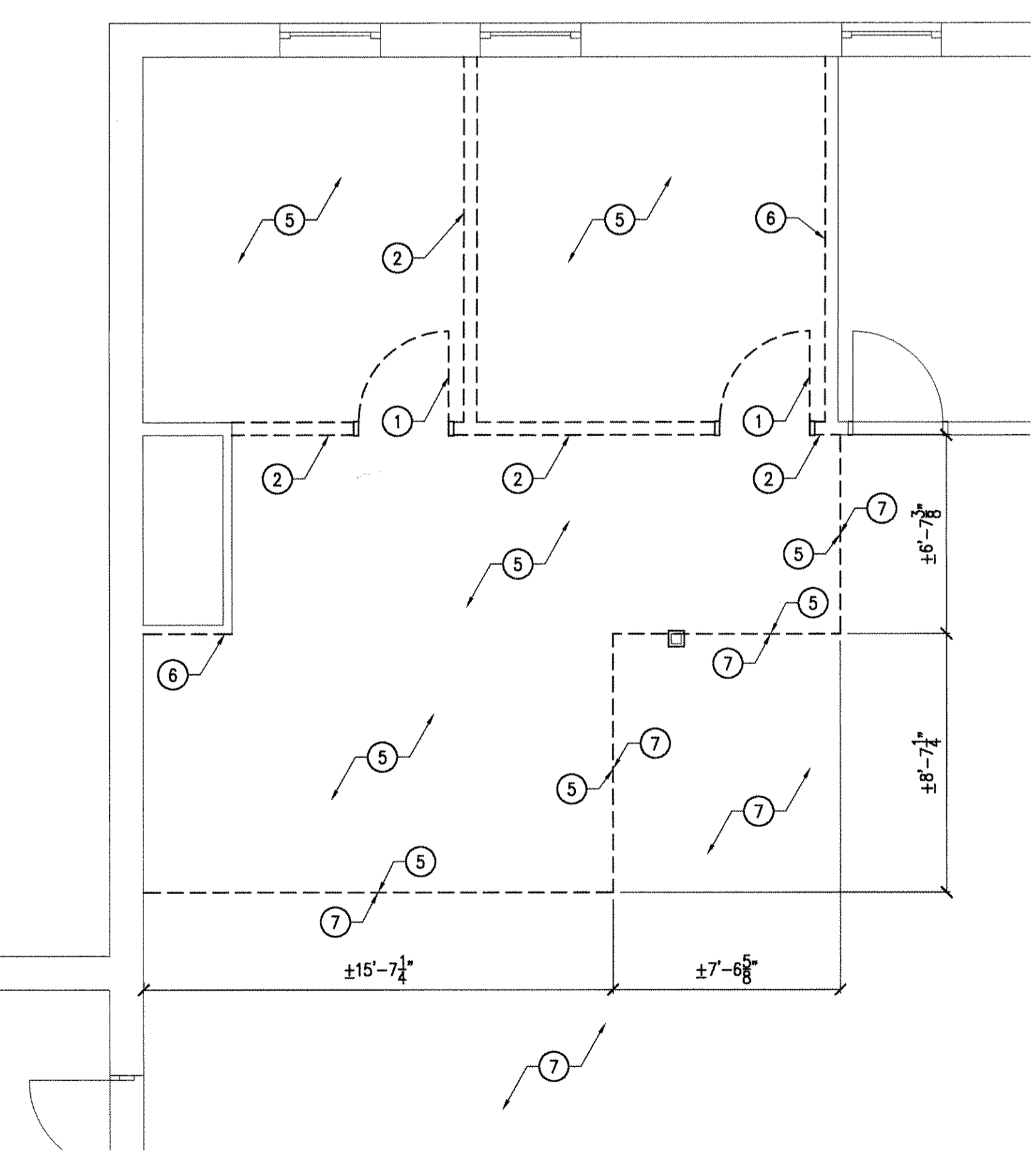
- PLAN NOTES:**
- 6" METAL STUD, 5/8" TYPE "X" GYPSUM BOARD ROOM SIDE ONLY (PAINTED).
  - 6" METAL STUD, 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES (PAINTED). FILL WALL CAVITY WITH SOUND ATTENUATION INSULATION.
  - 6" METAL STUD, 5/8" WATER RESISTANT GYPSUM BOARD RESTROOM SIDE, 5/8" TYPE "X" GYPSUM BOARD OPPOSITE SIDE (PAINTED). FILL WALL CAVITY WITH 6" SOUND ATTENUATION INSULATION.
  - 7/8" METAL FURRING, 5/8" TYPE "X" GYPSUM BOARD.
  - 7/8" METAL FURRING, 5/8" WATER RESISTANT GYPSUM BOARD.
  - 5/8" WATER RESISTANT GYPSUM BOARD ON EXISTING STUDS.
  - 42"W X 21" DEEP OAK CABINET BASE AND ASSOCIATED SOLID SURFACE COUNTERTOP WITH INTEGRAL BASIN AND BACKSPASH.
  - 4'-0" X 2'-10" FIBERGLASS ONE-PIECE SHOWER UNIT.
  - SHELVING AND ASSOCIATED CLOTHES ROD.
  - 5/8" TYPE "X" GYPSUM BOARD ON EXISTING STUDS.
  - 4'-0" X 7'-0" BY-PASS SHOWER DOOR AND ASSOCIATED ALUMINUM FRAME.
  - 3'-0" X 4'-0" MIRROR MOUNTED 4" ABOVE BACK SPLASH.
  - VINYL WALL BASE TO MATCH EXISTING.
  - 6" SOUND ATTENUATION INSULATION ABOVE CEILING.
  - 6" METAL STUD, 5/8" WATER RESISTANT GYPSUM BOARD BOTH SIDES.

- FINISH SCHEDULE:**
- | ROOM | FLOOR TYPES                    |
|------|--------------------------------|
| 123  | C CARPET TILE                  |
| 101  | T CERAMIC TILE                 |
| 102  | V VINYL COMPOSITION TILE (VCT) |
- | ROOM | BASE TYPES           |
|------|----------------------|
| 123  | B 4" OAK BASE        |
| 101  | T CERAMIC WALL BASE  |
| 102  | V 4" VINYL WALL BASE |
- | ROOM | WALL FINISHES   |
|------|---|
| 123  | P LATEX WALL PAINT WITH 3" O.G. OAK CHAIR RAIL. TOP OF CHAIR RAIL AT 3'-0" A.F.F. |
| 101  | T CERAMIC WALL TILE TO A HEIGHT OF 3'-0" A.F.F. PAINT ABOVE.                      |
| 102  | L LATEX WALL PAINT  |
- | ROOM | CEILING TYPES  |
|------|--|
| 123  | 1 2'X2' SUSPENDED ACOUSTICAL CEILING TILES WITH METAL TRACKS INSTALLED AT 8'-0" A.F.F. |
| 101  | 2 GYPSUM BOARD CEILING INSTALLED AT 8'-0"  |

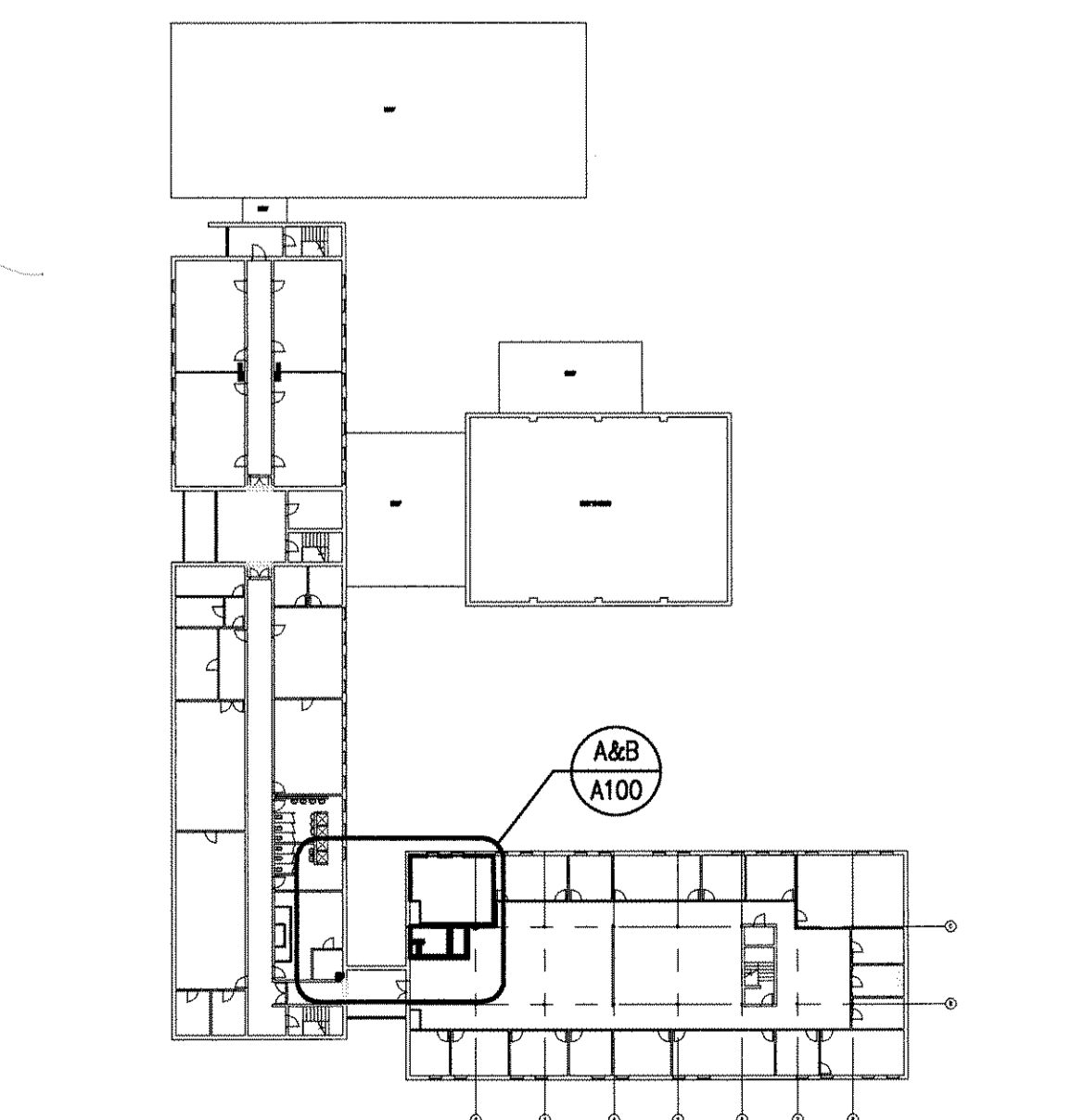
- DEMOLITION NOTES:**
- REMOVE AND DISPOSE OF EXISTING DOOR AND ASSOCIATED FRAME.
  - REMOVE AND DISPOSE OF EXISTING WALL ASSEMBLY.
  - REMOVE AND DISPOSE OF EXISTING 2X4 ACOUSTICAL CEILING TILE.
  - REMOVE AND STORE EXISTING 2X4 LIGHTING. PREPARE FIXTURES FOR REINSTALLATION.
  - REMOVE AND DISPOSE OF EXISTING FLOOR COVERING. PREPARE SLAB TO RECEIVE NEW FLOORING.
  - REMOVE AND DISPOSE OF EXISTING GYPSUM WALL BOARD. PREPARE STUDS TO RECEIVE NEW WALL BOARD.
  - EXISTING FLOORING TO REMAIN.
  - EXISTING ACOUSTICAL CEILING TO REMAIN.



**C PARTIAL REFLECTED CEILING PLAN - DEMOLITION**  
SCALE: 1/4" = 1'-0"

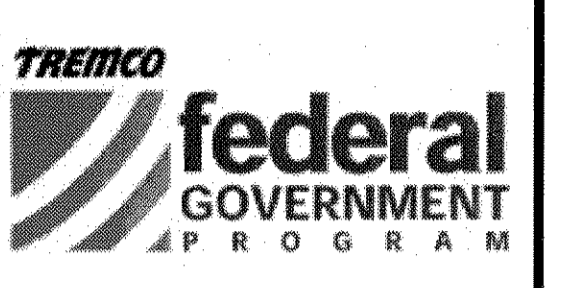


**A PARTIAL SECOND FLOOR PLAN - DEMOLITION**  
SCALE: 1/4" = 1'-0"



**E OVERALL SECOND FLOOR PLAN**  
SCALE: 1/32" = 1'-0"

**MUSSETT, NICHOLAS & ASSOCIATES**  
PROJECT CONSULTANTS  
422 EAST NEW YORK ST. INDIANAPOLIS, INDIANA 46202  
phone: (317) 631-9241  
fax: (317) 631-6619



Renovation and Additions to United States Army Reserve Center Indianapolis, IN

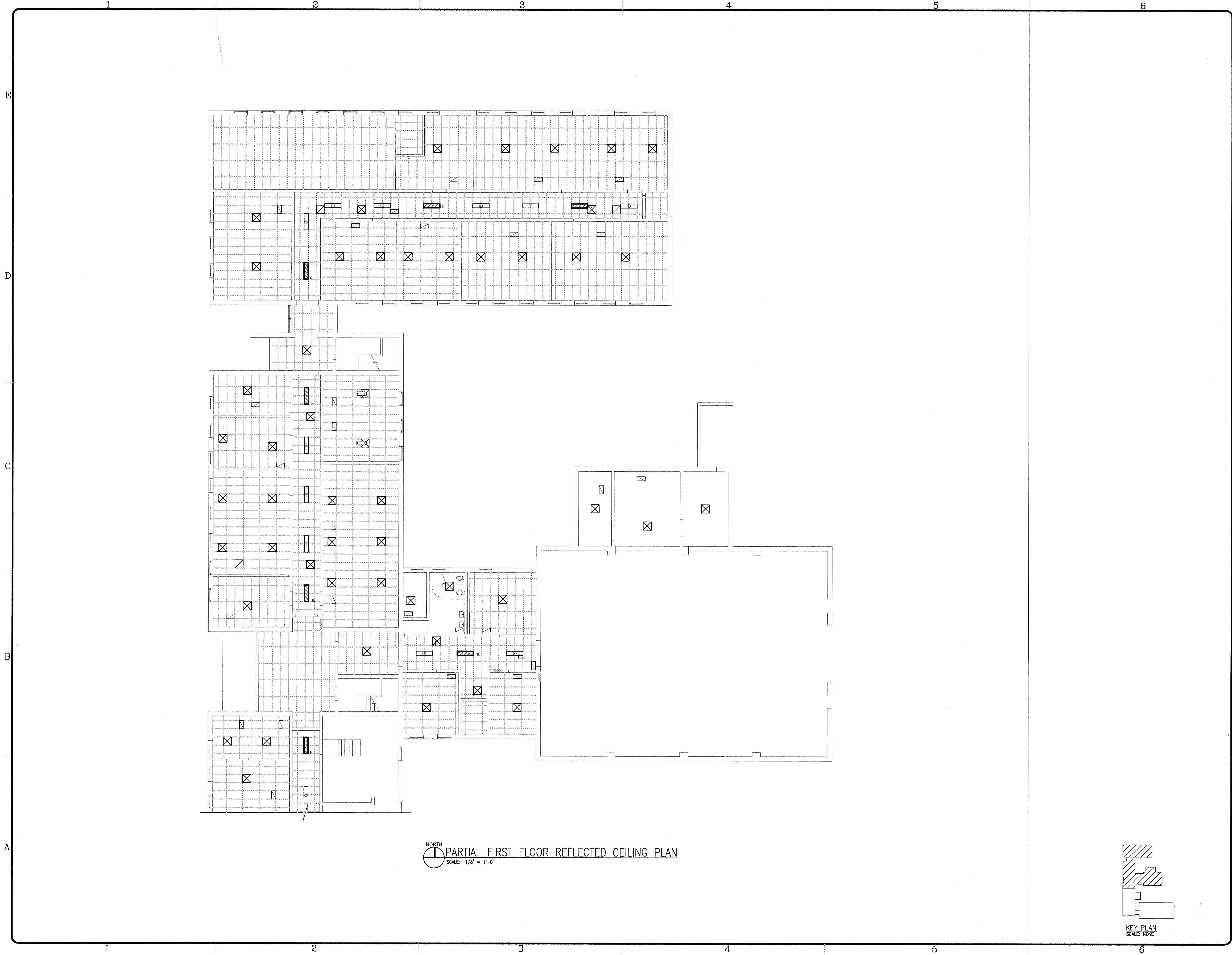
Certified By \_\_\_\_\_

0	03/25/04	BID SET
MARK	DATE	DESCRIPTION
REVISION BLOCK		

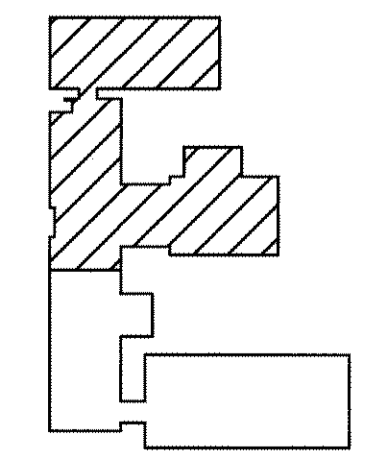
PROJECT NO:	2004041
DWG. FILE:	A100.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2004	MUSSETT, NICHOLAS AND ASSOC., INC.

SHEET TITLE  
**PARTIAL SECOND FLOOR PLAN**

A100



NORTH  
 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN  
 SCALE: 1/8" = 1'-0"



KEY PLAN  
 SCALE: NONE

MUSSETT,  
 NICHOLAS &  
 ASSOCIATES  
 PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

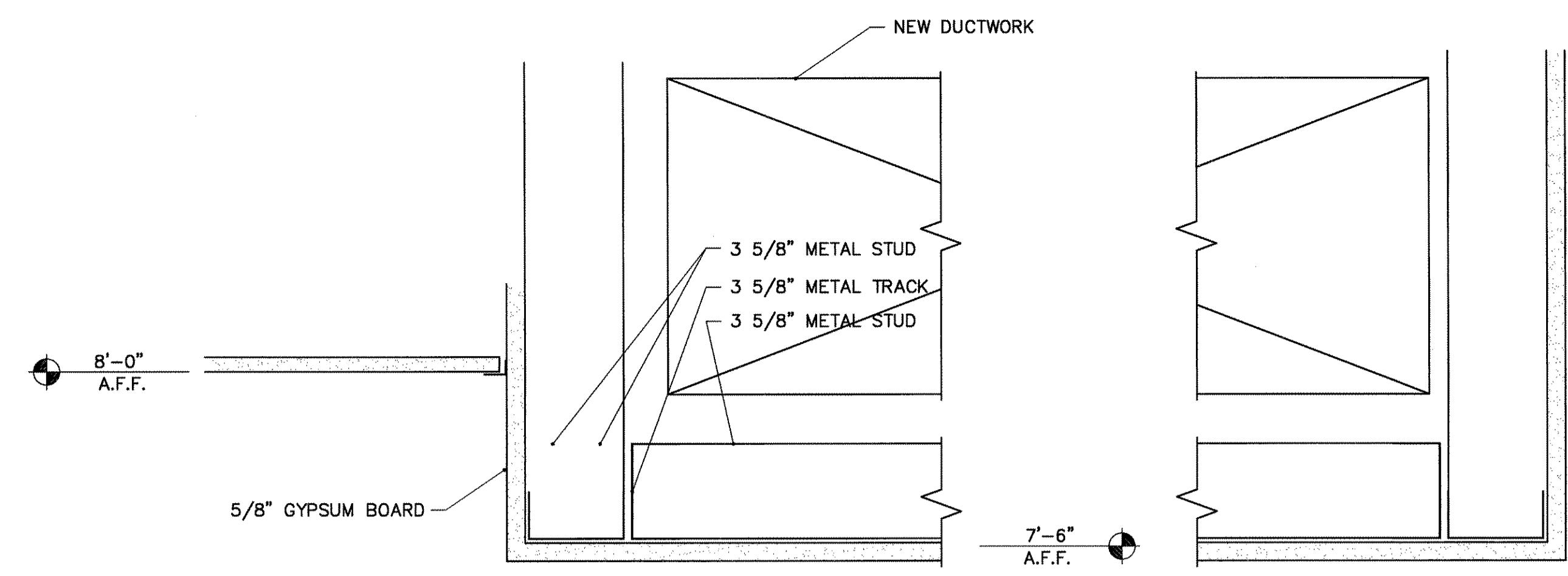
PROJECT NO:	2002218
DWG. FILE:	A101.dwg
DRAWN BY:	DNK
CHK'D BY:	---
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
 PARTIAL  
 FIRST FLOOR  
 REFLECTED  
 CEILING PLAN

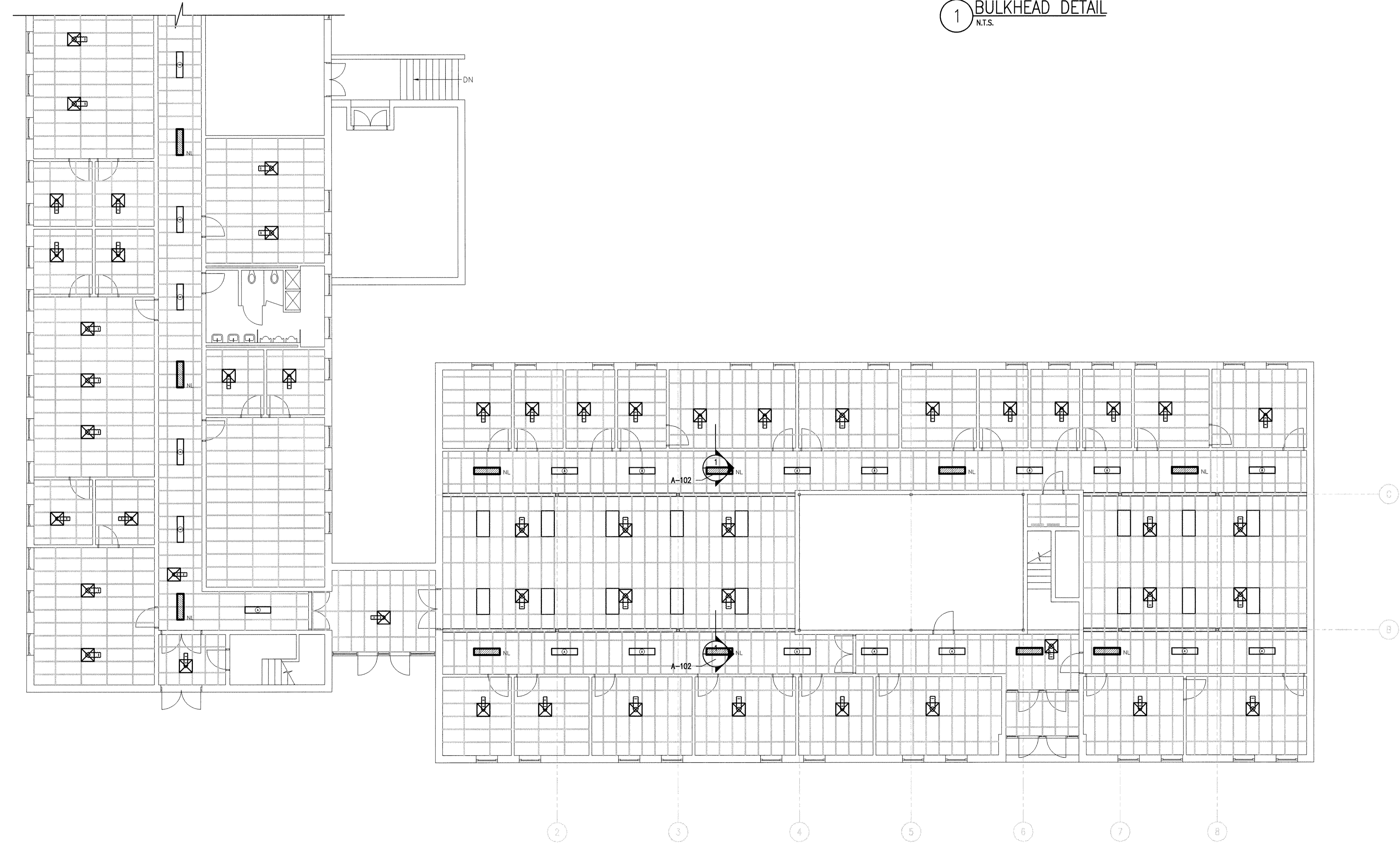
A-101  
 SHEET X OF X

1 2 3 4 5 6

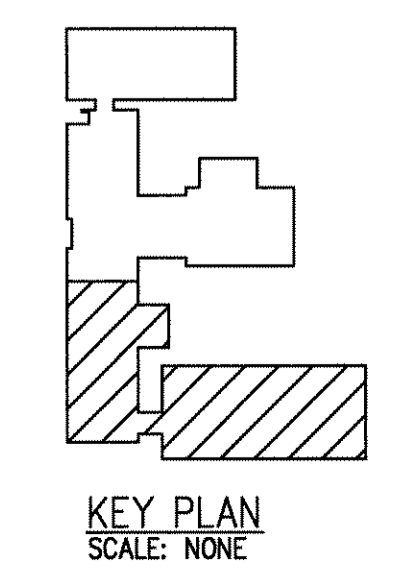
E  
D  
C  
B  
A



1 BULKHEAD DETAIL  
N.T.S.



NORTH  
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NONE

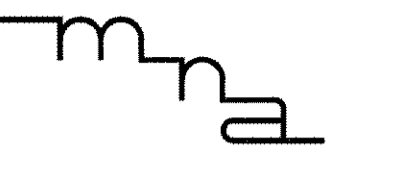
**GENERAL NOTES:**

G1. RELOCATE PIPING AND CONDUIT TO ACCOMMODATE DUCT WORK.

**KEYED HVAC NOTES:**

① DIFFUSER & RETURN GRILLE TO INCLUDE HORIZONTAL RADIATION DAMPERS U.L. LISTED.

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
3/11/04	AS BUILT	

PROJECT NO: 2002218  
 DWG. FILE: A102.dwg  
 DRAWN BY: DNK  
 CHK'D BY: ---  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
FIRST FLOOR  
REFLECTED  
CEILING PLAN

A-102  
SHEET X OF X

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By

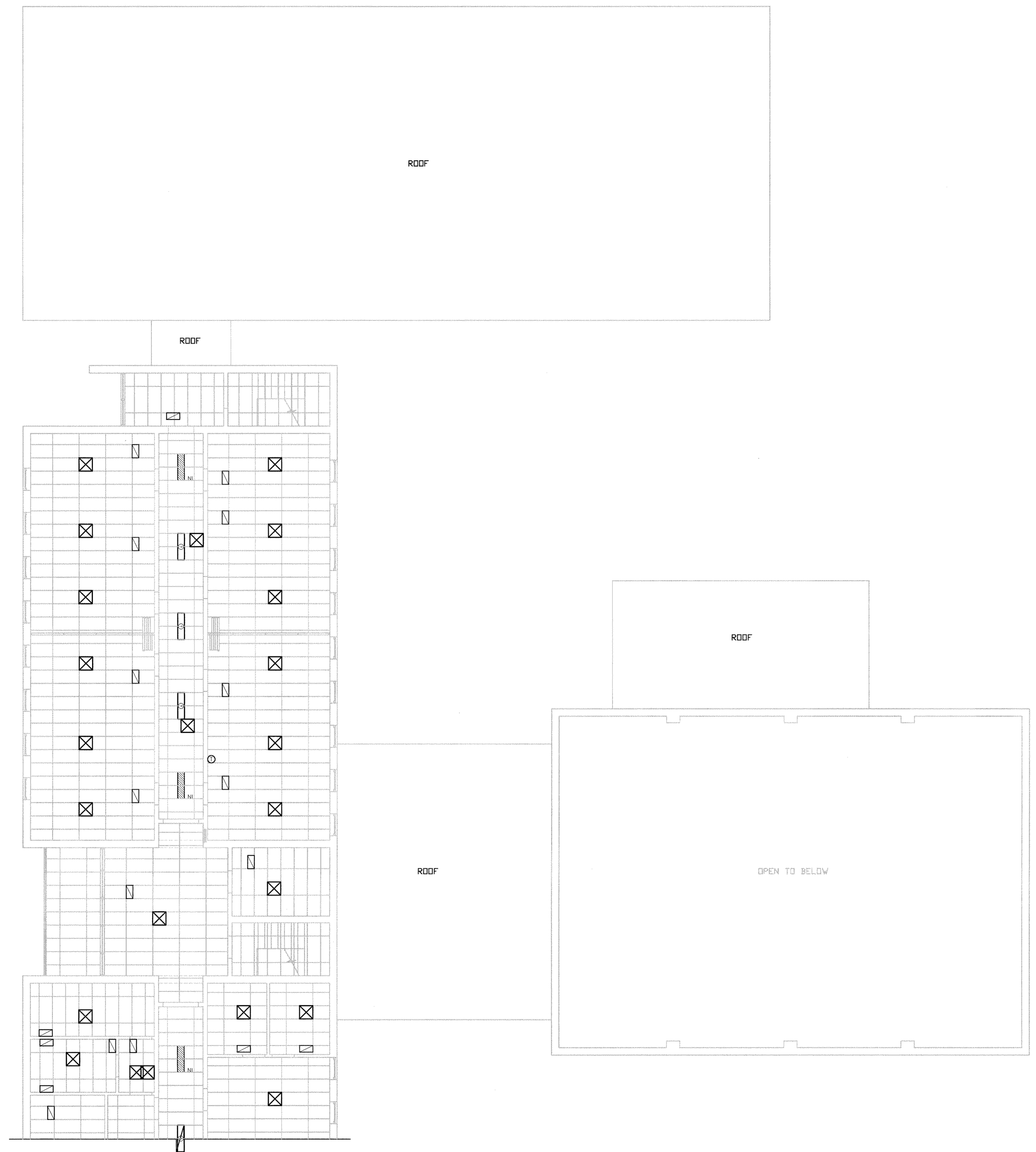
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

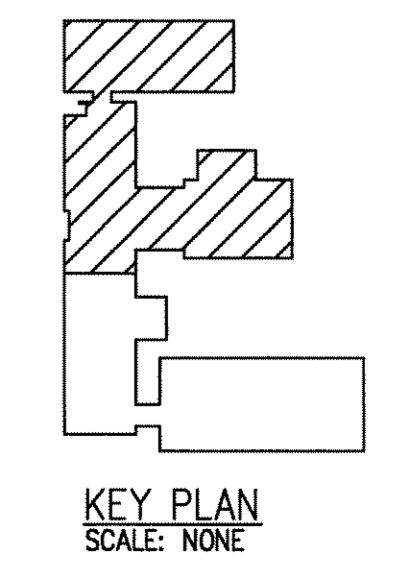
PROJECT NO: 2002218  
DWG. FILE: A103.dwg  
DRAWN BY: DNK  
CHK'D BY: ---  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

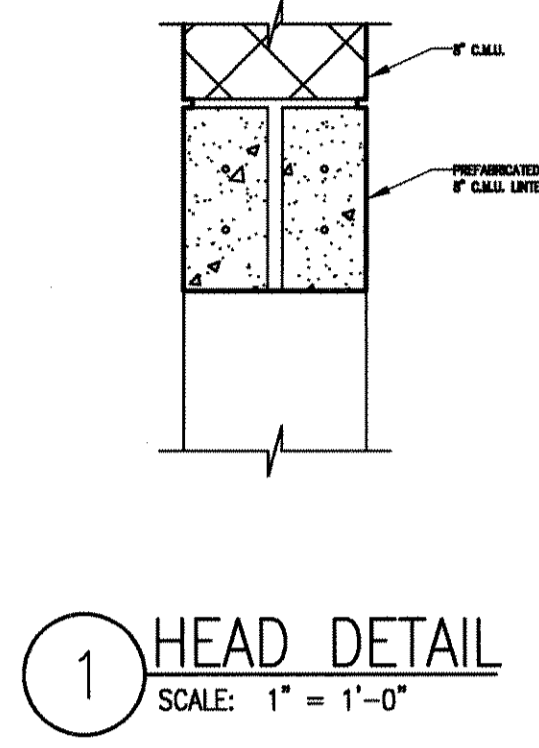
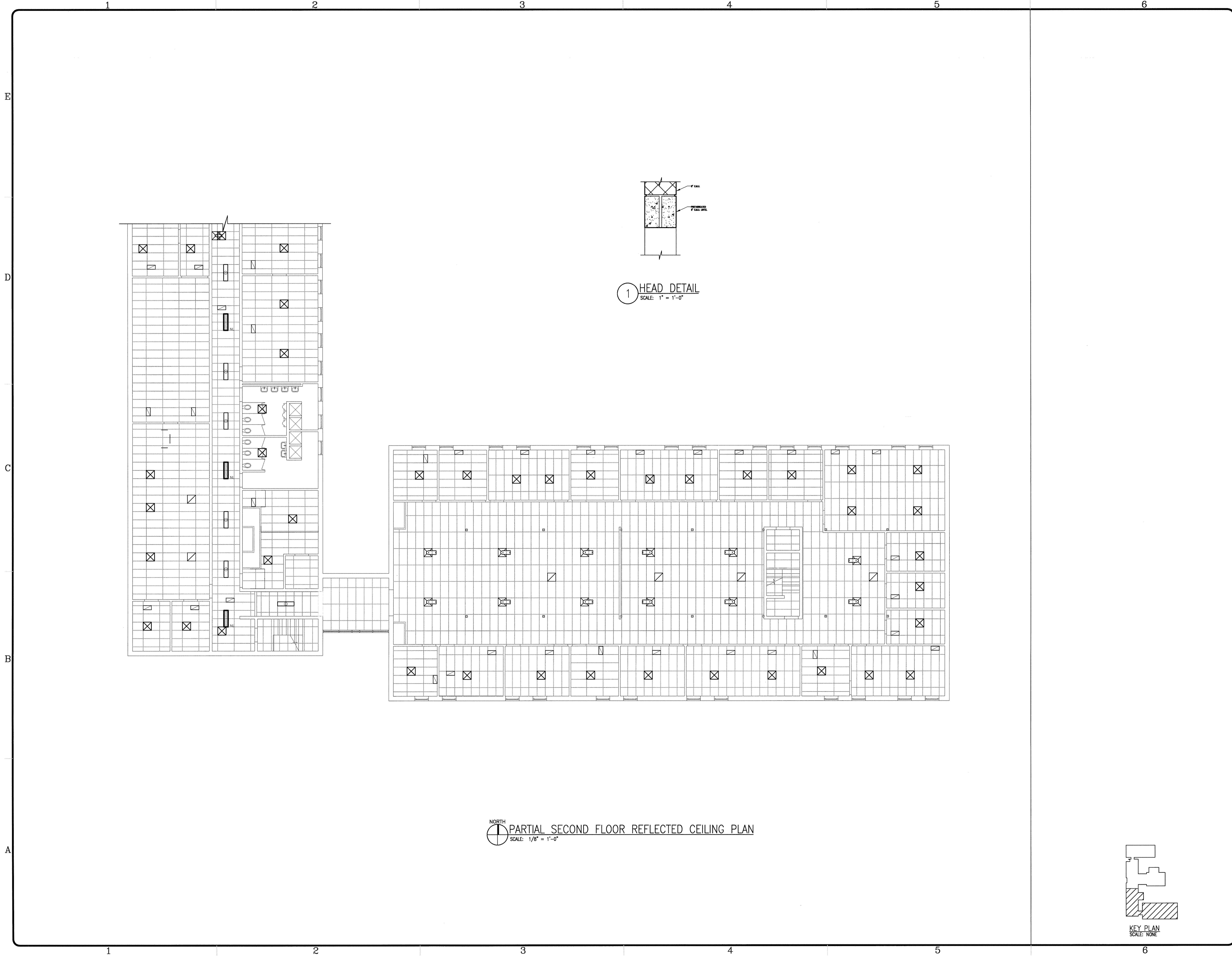
SHEET TITLE  
PARTIAL  
FIRST FLOOR  
REFLECTED  
CEILING PLAN

A-103  
SHEET X OF X



NORTH  
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"





NORTH  
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

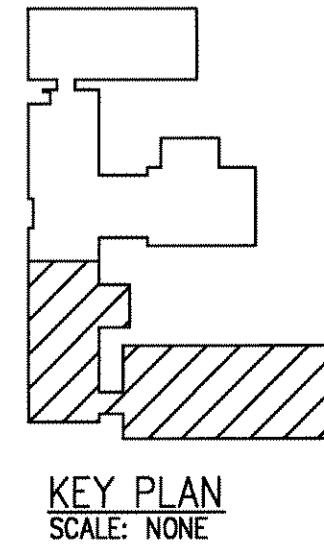
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO: 2002218  
DWG. FILE: A104.dwg  
DRAWN BY: DNK  
CHK'D BY: ---  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
SECOND FLOOR  
REFLECTED  
CEILING PLAN

A-104  
SHEET X OF X



1

2

3

4

5

6

E

D

C

B

A

E

D

C

B

A

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone: (317) 631-9241  
fax: (317) 631-6619

**TRESCO**  
**federal**  
GOVERNMENT  
PROGRAM

**WEATHERPROOFING**  
TECHNOLOGIES, INC.

Renovation and Additions  
to  
United States  
Army Reserve Center  
Indianapolis, IN

Certified By \_\_\_\_\_

MARK	DATE	DESCRIPTION
0	03/25/04	BID SET

REVISION BLOCK

PROJECT NO:	2004041
DWG. FILE:	E101.DWG
DRAWN BY:	KDS
CHK'D BY:	MOP
COPYRIGHT	2004
MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL SECOND FLOOR PLAN - ELECTRICAL NEW & DEMOLITION**

E101

IN016-0023 E101

**GENERAL NOTES:**

- VERIFY ALL DIMENSIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- DIMENSIONS SHOWN ARE FROM/TO FACE OF C.M.U., OR METAL STUDS UNLESS NOTED OTHERWISE.
- DO NOT SCALE FROM DOCUMENTS.
- PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING WORK PERTAINING TO THIS PROJECT.


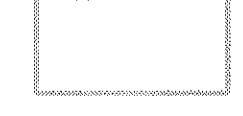
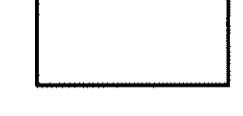

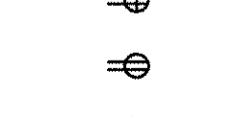

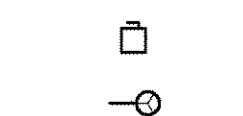



**PLAN NOTES:**

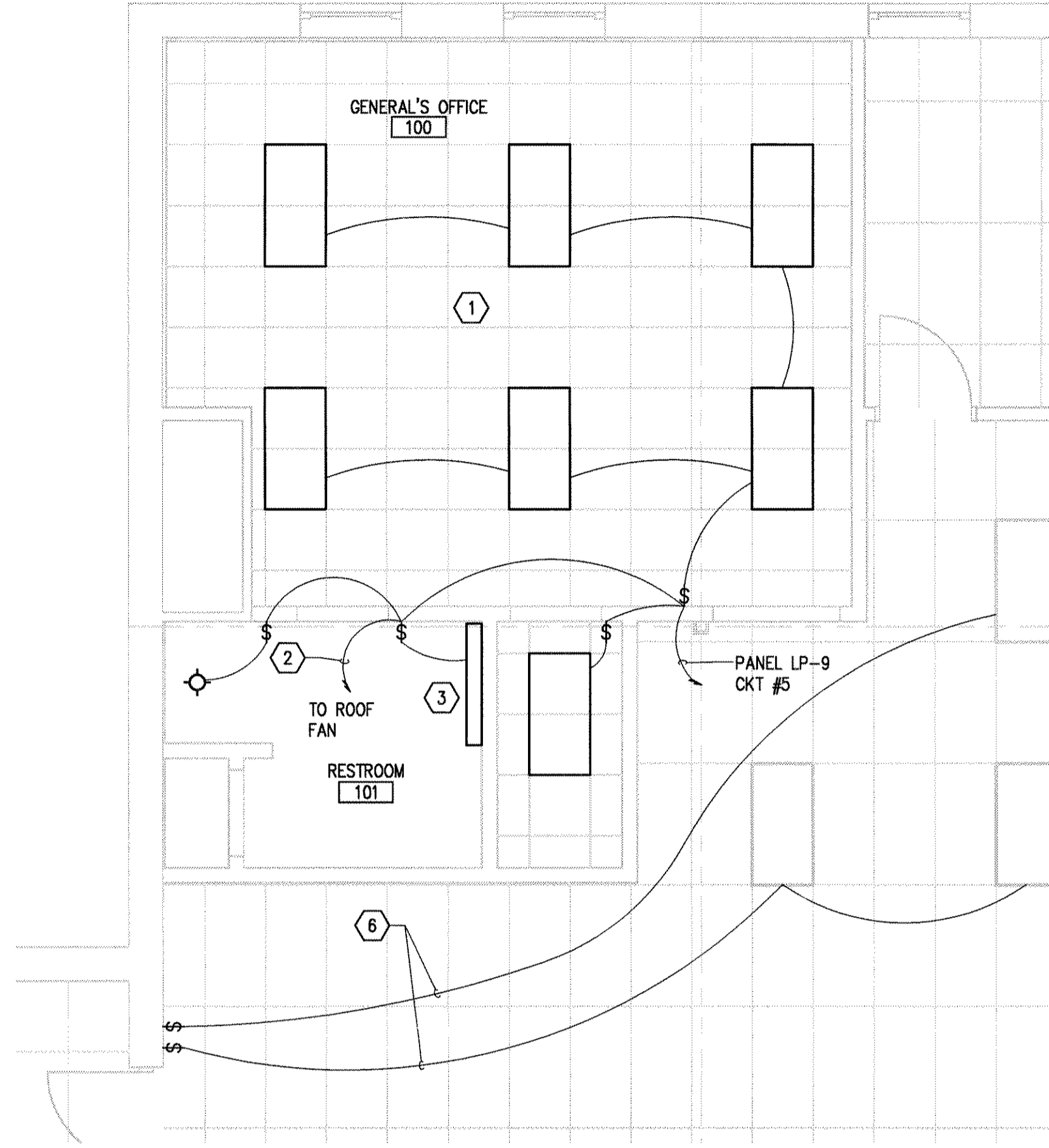
- INSTALL LIGHT FIXTURES AS SHOWN. RECONNECT LIGHTS TO EXISTING CIRCUIT.
- CONNECT LIGHT CIRCUIT TO ROOF EXHAUST FAN. UNIT SUPPLIED WITH 120 VOLT TOGGLE SWITCH AND THERMAL OVERLOADS.
- INSTALL WALL VANITY LIGHT ABOVE MIRROR.
- INSTALL GFI RECEPTACLE ABOVE VANITY ON EXISTING RECEPTACLE CIRCUIT.
- INSTALL CONDUIT AND NON-FUSED 30 AMP DISCONNECT FOR NEW 2000 WATT WATER HEATER, 208 VOLT, 2 POLE, 20 AMP. INSTALL 2-#12 (#12GND) IN 1/2" CONCEALED IN SUSPENDED CEILING.
- REFEED EXISTING LIGHTS FROM SWITCHES.
- CONNECT NEW 2000 WATT ELECTRIC WALL HEATER. INSTALL NEW 20 AMP, 2 POLE BREAKER IN LIGHTING PANEL LP-9. INSTALL 2-#12 (#12GND) IN 1/2" CONDUIT FROM WALL HEATER DISCONNECT TO LIGHTING PANEL LP-9 CONCEALED IN SUSPENDED CEILING.
- REINSTALL RECEPTABLES AND TEL/DATA JACKS INTO NEW WALL.
- REINSTALL RECEPTACLE, 15 AMP, 120 VOLT INTO NEW WALL.

**DEMOLITION NOTES:**

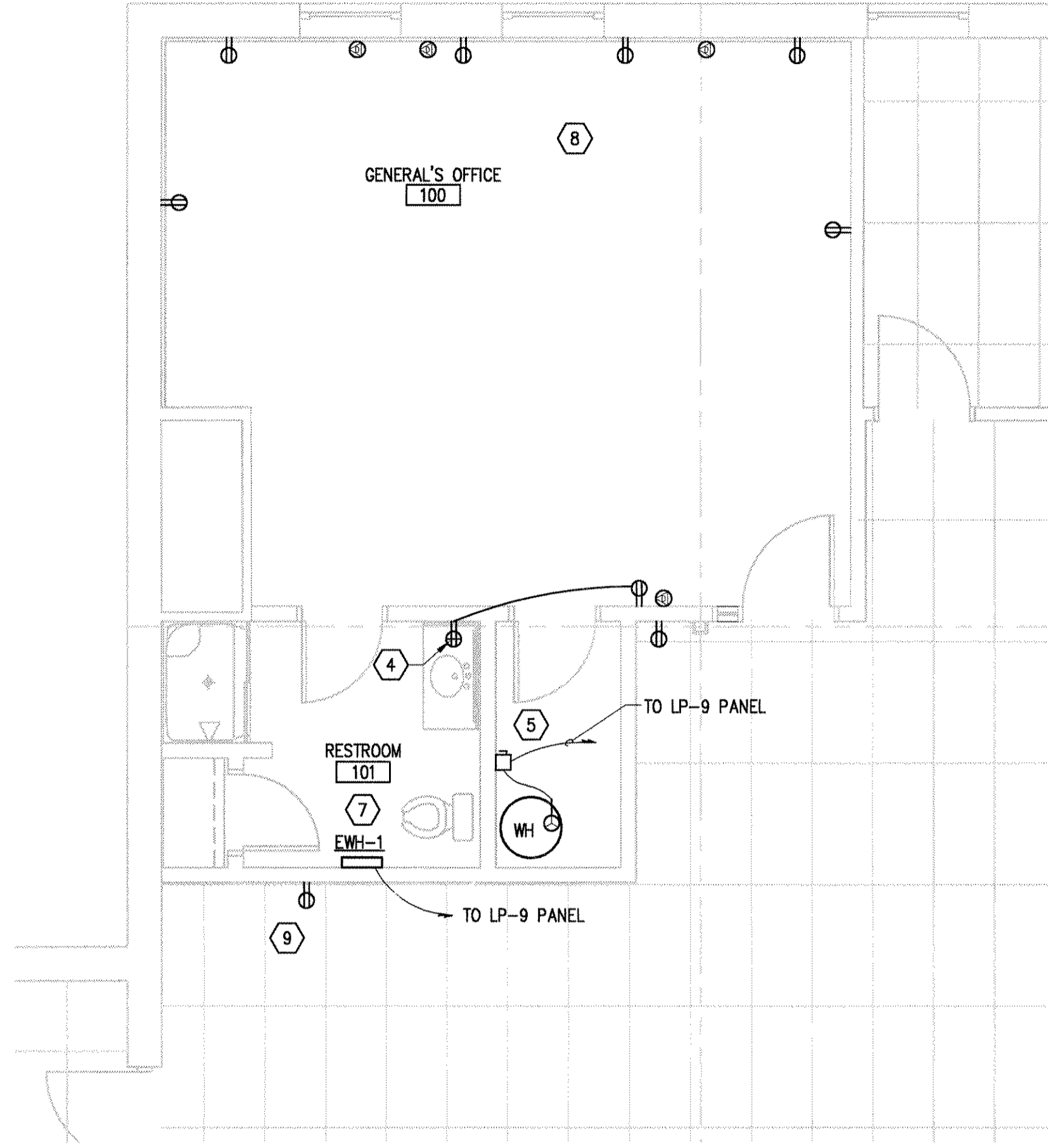
- REMOVE FLUORESCENT LIGHT FIXTURES AND STORE FOR REINSTALLATION.
- REMOVE RECEPTABLES AND TEL/DATA JACKS FOR REINSTALLATION INTO NEW WALL AT SAME LOCATION.
- REMOVE ALL DEVICES FOR WALL REMOVAL.
- REMOVE POWERPOLE.

**SYMBOLS**

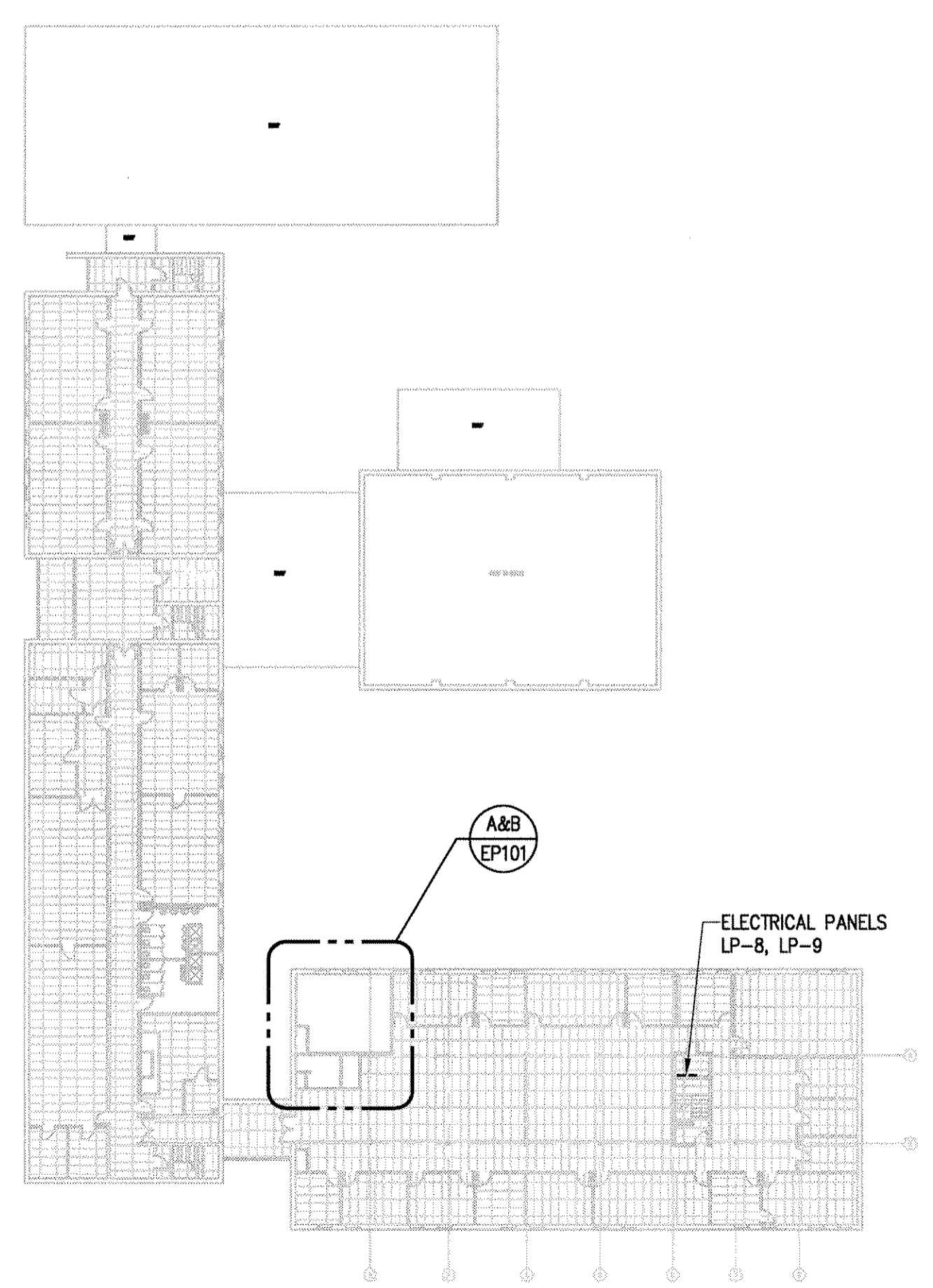
-  EXISTING 2'x4', 4-LAMP FLUORESCENT LIGHT FIXTURE TO BE TEMPORARILY REMOVED.
-  EXISTING 2'x4', 4-LAMP FLUORESCENT LIGHT FIXTURE
-  REINSTALLED 2'x4', 4-LAMP FLUORESCENT LIGHT FIXTURE
-  NEW VANITY WALL LIGHT WITH WRAPAROUND DIFFUSER, WHITE ENDS, 2-4' FLUORESCENT LAMP, T-8, 120 VOLT SIMILAR TO LITHONIA #11854-RE
-  NEW 20 AMP, GFI RECEPTACLE, 120 VOLT
-  15 AMP RECEPTACLE
-  POWER POLE, EXISTING
-  DATA JACK
-  SINGLE POLE SWITCH, 120 VOLT
-  DISCONNECT, 30 AMP, 2 POLE, NON-FUSED
-  SPECIAL CONNECTION
-  SHOWER LIGHT, RECESSED, 120V



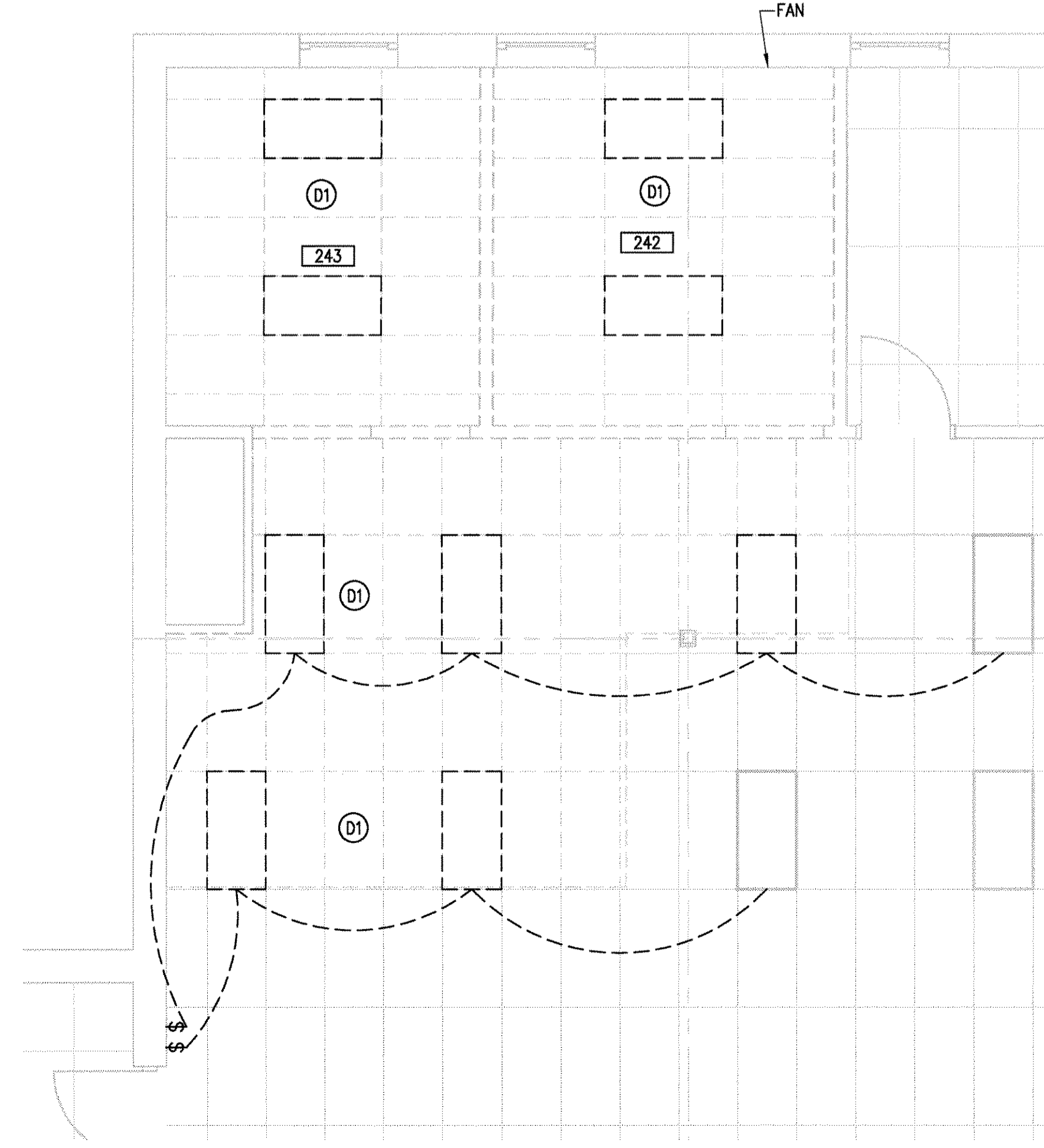
**PARTIAL SECOND FLOOR PLAN - LIGHTING**  
SCALE: 1/4" = 1'-0"



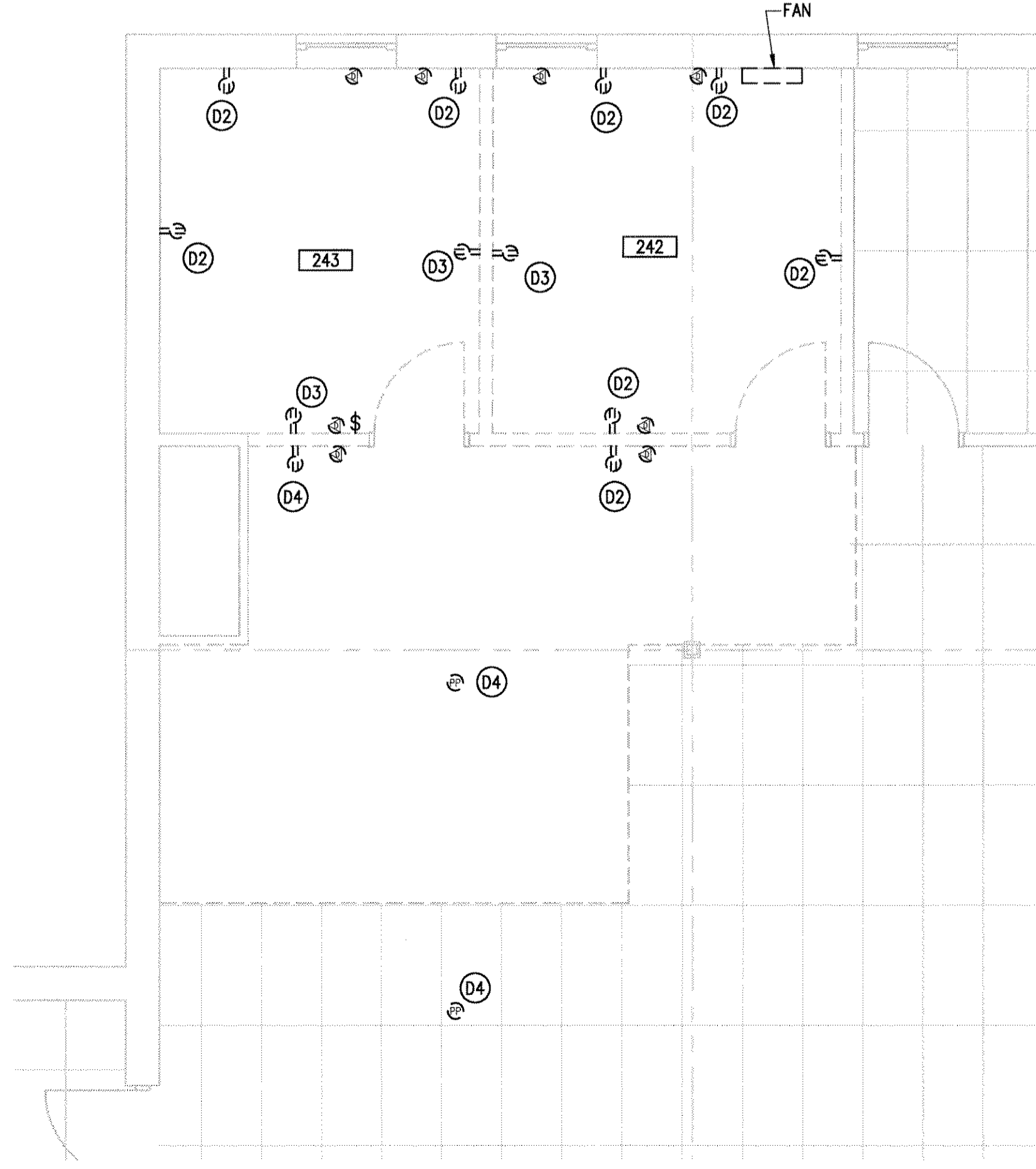
**PARTIAL SECOND FLOOR PLAN - POWER**  
SCALE: 1/4" = 1'-0"



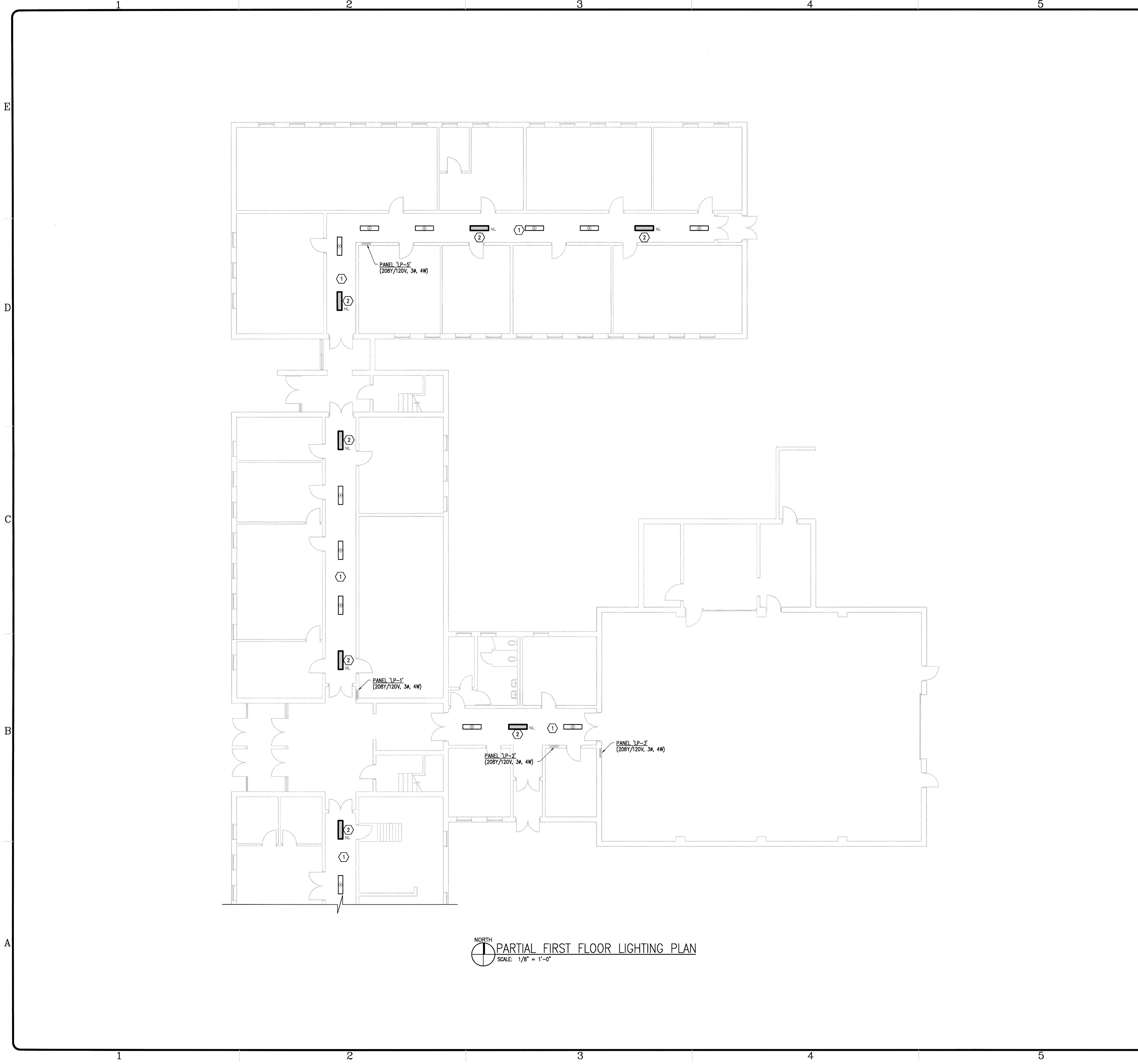
**OVERALL SECOND FLOOR PLAN**  
SCALE: 1/32" = 1'-0"



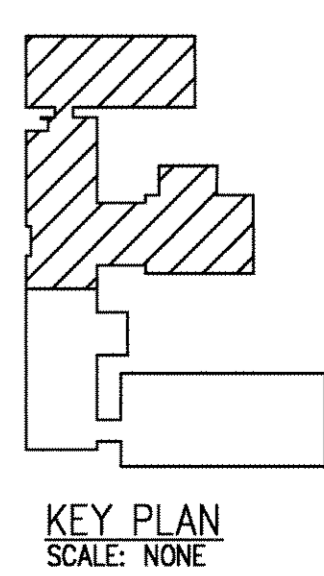
**PARTIAL REFLECTED CEILING PLAN - DEMOLITION**  
SCALE: 1/4" = 1'-0"



**PARTIAL SECOND FLOOR PLAN - DEMOLITION**  
SCALE: 1/4" = 1'-0"



NORTH  
**PARTIAL FIRST FLOOR LIGHTING PLAN**  
 SCALE: 1/8" = 1'-0"



KEY PLAN  
 SCALE: NONE

**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DO NOT SCALE FROM PRINTS.
- G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
- G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.

**KEYED LIGHTING NOTES:**

- ① ELECTRICAL CONTRACTOR SHALL REWORK EXISTING LIGHTING CIRCUIT IN HALLWAY AND REUSE EXISTING LIGHT SWITCHES TO MAINTAIN THE EXISTING LIGHTING SCHEME. NEW LIGHT FIXTURES SHALL BE SIMILAR TO LITHONIA 'AW' SERIES OR APPROVED EQUAL. FIXTURE SHALL BE 4' IN LENGTH WITH TWO (2) T8, SP35 32W, LAMPS. BALLAST SHALL BE THERMALLY PROTECTED, RAPID START WITH THD ≤ 20%. DIFFUSER SHALL BE SIMILAR TO PATTERN #12 WITH 0.125" THICK UPLIGHT LENS.
- ② FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FLUORESCENT LIGHT FIXTURE IN NOTE ONE, BUT WITH AN EMERGENCY BATTERY PACK. FIXTURE SHALL BE ON AN UNSWITCHED LEG FOR NIGHT LIGHT OPERATION.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By \_\_\_\_\_

\_\_\_\_\_

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

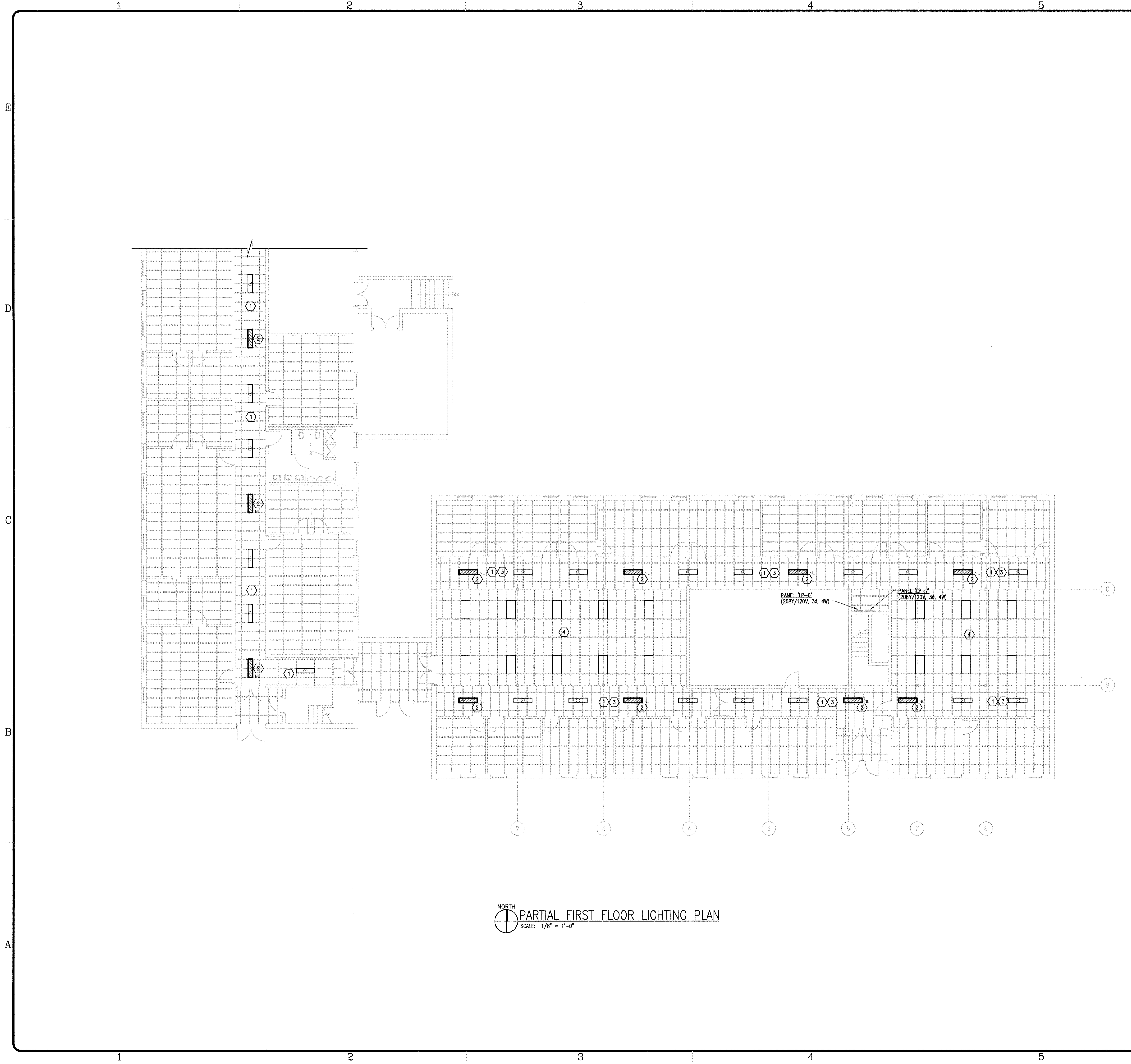
\_\_\_\_\_

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

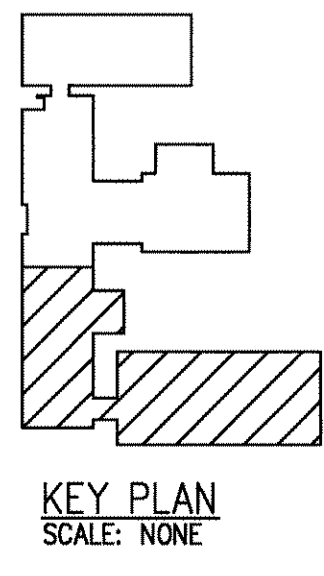
PROJECT NO: 2002218  
 DWG. FILE: EL101.dwg  
 DRAWN BY: DPS  
 CHKD BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 FIRST FLOOR  
 LIGHTING PLAN**

EL-101  
 SHEET X OF X



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



- GENERAL NOTES:**
- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
  - G2. DO NOT SCALE FROM PRINTS.
  - G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
  - G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
  - G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
  - G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
  - G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.

- KEYED LIGHTING NOTES:**
- ① ELECTRICAL CONTRACTOR SHALL REWORK EXISTING LIGHTING CIRCUIT IN HALLWAY AND REUSE EXISTING LIGHT SWITCHES TO MAINTAIN THE EXISTING LIGHTING SCHEME. NEW LIGHT FIXTURES SHALL BE SIMILAR TO LITHONIA 'AW' SERIES OR APPROVED EQUAL. FIXTURE SHALL BE 4' IN LENGTH WITH TWO (2) T8, SP35 32W, LAMPS. BALLAST SHALL BE THERMALLY PROTECTED, RAPID START WITH THD ≤ 20%. DIFFUSER SHALL BE SIMILAR TO PATTERN #12 WITH 0.125" THICK UPLIGHT LENS.
  - ② FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FLUORESCENT LIGHT FIXTURE IN NOTE ONE, BUT WITH AN EMERGENCY BATTERY PACK. FIXTURE SHALL BE ON AN UNSWITCHED LEG FOR NIGHT LIGHT OPERATION.
  - ③ REUSE EXISTING LIGHTING CIRCUIT TO NEW FLUORESCENT LIGHT FIXTURES. PROVIDE ALL WORK AND MATERIAL NECESSARY.
  - ④ EXISTING FLUORESCENT LIGHT FIXTURES SHALL BE REWORKED INTO CEILING GRID. MAINTAIN CIRCUITING INFORMATION.

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO:	2002218
DWG. FILE:	EL102.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

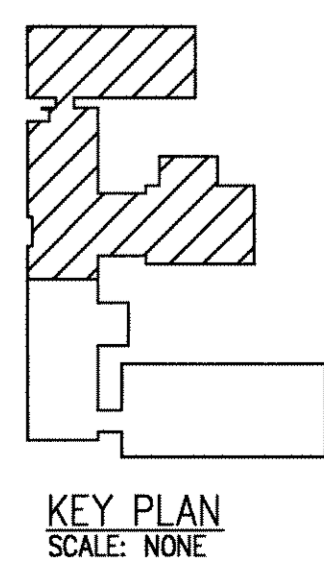
SHEET TITLE  
**PARTIAL  
FIRST FLOOR  
LIGHTING PLAN**

**EL-102**  
SHEET X OF X





NORTH  
 PARTIAL SECOND FLOOR LIGHTING PLAN  
 SCALE: 1/8" = 1'-0"



**GENERAL NOTES:**

01. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
02. DO NOT SCALE FROM PRINTS.
03. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
04. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
05. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
06. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
07. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.

**KEYED LIGHTING NOTES:**

- ① ELECTRICAL CONTRACTOR SHALL REWORK EXISTING LIGHTING CIRCUIT IN HALLWAY AND REUSE EXISTING LIGHT SWITCHES TO MAINTAIN THE EXISTING LIGHTING SCHEME. NEW LIGHT FIXTURES SHALL BE SIMILAR TO LITHONIA 'AW' SERIES OR APPROVED EQUAL. FIXTURE SHALL BE 4' IN LENGTH WITH TWO (2) T8, SP35 32W, LAMPS. BALLAST SHALL BE THERMALLY PROTECTED, RAPID START WITH THD ≤ 20%. DIFFUSER SHALL BE SIMILAR TO PATTERN #12 WITH 0.125" THICK UPLIGHT LENS.
- ② FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FLUORESCENT LIGHT FIXTURE IN NOTE ONE, BUT WITH AN EMERGENCY BATTERY PACK. FIXTURE SHALL BE ON AN UNSWITCHED LEG FOR NIGHT LIGHT OPERATION.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By \_\_\_\_\_

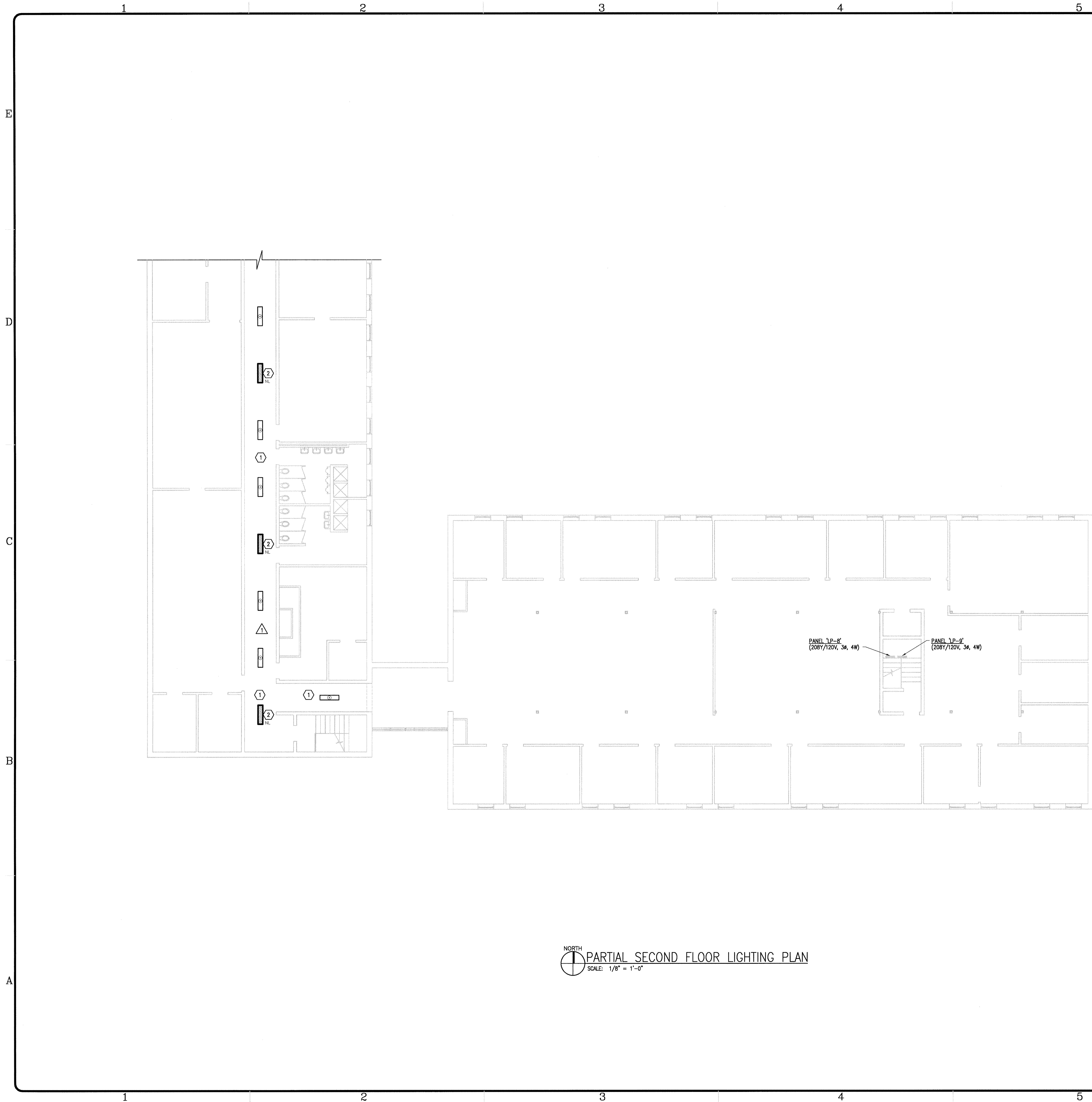
Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

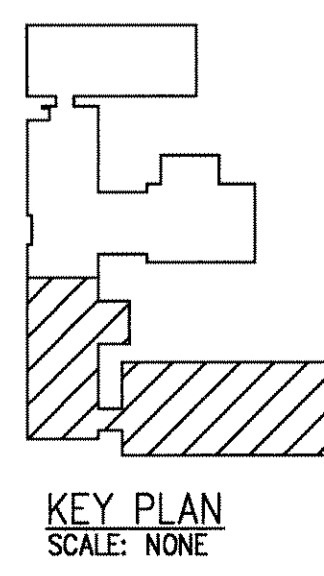
PROJECT NO: 2002218  
 DWG. FILE: EL103.dwg  
 DRAWN BY: DPS  
 CHK'D BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 SECOND FLOOR  
 LIGHTING PLAN**

**EL-103**  
 SHEET X OF X



NORTH  
PARTIAL SECOND FLOOR LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



**GENERAL NOTES:**

01. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
02. DO NOT SCALE FROM PRINTS.
03. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
04. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
05. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
06. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
07. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.

**KEYED LIGHTING NOTES:**

- ① ELECTRICAL CONTRACTOR SHALL REWORK EXISTING LIGHTING CIRCUIT IN HALLWAY AND REUSE EXISTING LIGHT SWITCHES TO MAINTAIN THE EXISTING LIGHTING SCHEME. NEW LIGHT FIXTURES SHALL BE SIMILAR TO LITHONIA "AW" SERIES OR APPROVED EQUAL. FIXTURE SHALL BE 4' IN LENGTH WITH TWO (2) T8, SP35 32W, LAMPS. BALLAST SHALL BE THERMALLY PROTECTED, RAPID START WITH THD ≤ 20%. DIFFUSER SHALL BE SIMILAR TO PATTERN #12 WITH 0.125" THICK UPLIGHT LENS.
- ② FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FLUORESCENT LIGHT FIXTURE IN NOTE ONE, BUT WITH AN EMERGENCY BATTERY PACK. FIXTURE SHALL BE ON AN UNSWITCHED LEG FOR NIGHT LIGHT OPERATION.

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

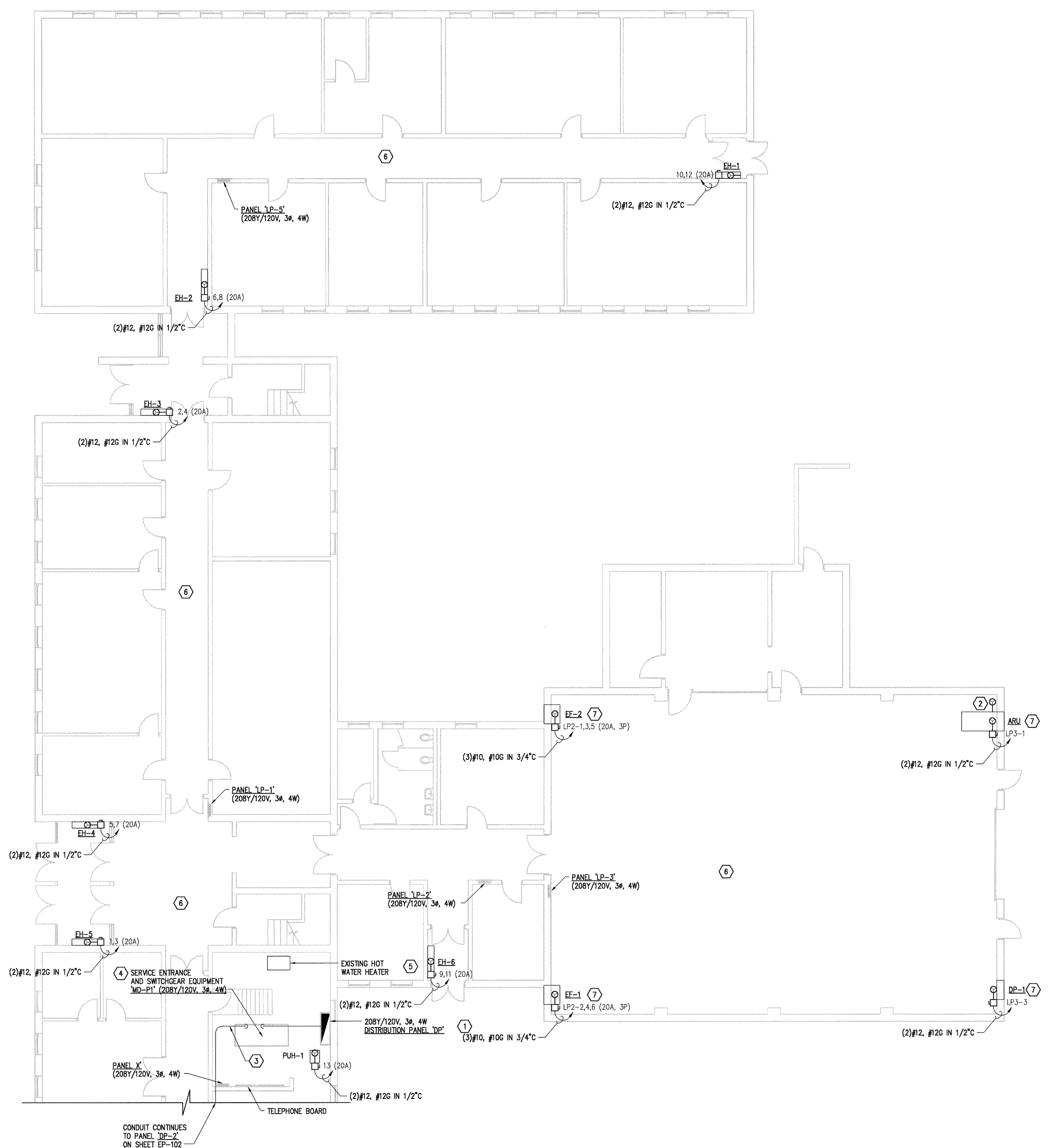
MARK	DATE	DESCRIPTION
△	3/11/04	AS BUILT

REVISION BLOCK

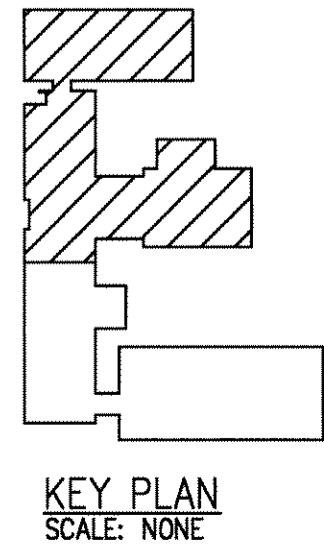
PROJECT NO: 2002218  
 DWG. FILE: EL104.dwg  
 DRAWN BY: DPS  
 CHK'D BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 SECOND FLOOR  
 LIGHTING PLAN**

EL-104  
 SHEET X OF X



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



**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DO NOT SCALE FROM PRINTS.
- G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
- G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
- G8. ALL NEW WALL HEATERS SHALL BE FED FROM LOCAL PANELS UNLESS OTHERWISE NOTED OR INDICATED. THE FIRST TWO NUMBERS ARE CIRCUIT NUMBERS (FOR GROUPING PURPOSES ONLY) FOLLOWED BY A NUMBER IN PARENTHESIS TO INDICATE THE AMPERAGE OF THE BREAKER.
- G9. 20A/120V CIRCUITS SHALL NOT EXCEED 1440VA (12 AMPS). WIRE AND CONDUIT SIZE SHALL BE 2#12(#12G) IN 1/2" UNLESS OTHERWISE NOTED OR INDICATED.
- G10. CIRCUIT NUMBERS BY DEVICES ARE SHOWN FOR GROUPING PURPOSES. ACTUAL CIRCUITS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- G11. CONTRACTOR SHALL FIELD COORDINATE ALL HVAC POWER CONNECTIONS.
- G12. REFER TO PANEL FEEDER RISER DIAGRAM FOR MORE INFORMATION.
- G13. ALL EXPOSED BRANCH CIRCUITS SHALL BE IN CONDUIT WITH A GROUND WIRE AND ALL CONCEALED BRANCH CIRCUITS SHALL BE IN MC CABLE WITH A GROUND WIRE.
- G14. CONTRACTOR SHALL FIELD ROUTE CONDUIT/ MC CABLE FEEDER TO HVAC UNITS AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES IN THE HALL OR ANY MECHANICAL EQUIPMENT, ETC.

**KEYED NOTES:**

- ① EXISTING POWER DISTRIBUTION PANEL 'DP' (208Y/120V, 3ø, 4W).
- ② CONTRACTOR SHALL PROVIDE ONE 20A/120V POWER CONNECTION FOR INTERLOCKING OF DAMPERS ON AIR ROTATION UNIT 1, ARU-1. COORDINATE LOCATION OF POWER CONNECTION OF DAMPERS WITH MECHANICAL CONTRACTOR. CONNECT TO SPARE 20A BREAKER IN PANEL '1P-3'. PROVIDE ALL WORK AND EQUIPMENT NECESSARY.
- ③ CONTRACTOR SHALL FIELD ROUTE CONDUIT FEEDER FROM 'MD-P1' TO 'DP-2' AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES OR ANY MECHANICAL EQUIPMENT, ETC IN THE MECHANICAL ROOM.
- ④ EXISTING SERVICE ENTRANCE EQUIPMENT AND SWITCHGEAR. CONTRACTOR SHALL REMARK EXISTING FUSED SWITCHES AS INDICATED ON PARTIAL ONE-LINE DIAGRAM ON SHEET EP600.
- ⑤ EXISTING HOT WATER HEATER. CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY TO HOT WATER HEATER DURING DEMOLITION AND CONSTRUCTION.
- ⑥ FIELD WIRE HVAC CONTROLS TO THERMOSTAT AND HUMIDISTAT AS REQUIRED. REFER TO MECHANICAL PLANS FOR LOCATION.
- ⑦ CONTRACTOR SHALL INTERCEPT EXISTING FEED FOR AHU TO FEED NEW EQUIPMENT. PROVIDE ALL WORK AND MATERIAL AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR. FIELD VERIFY EXISTING BRANCH CONDUCTORS, OVERCURRENT PROTECTION, AND CONDUITS ARE OF ADEQUATE SIZE TO FEED THE NEW EQUIPMENT.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

*mm*

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

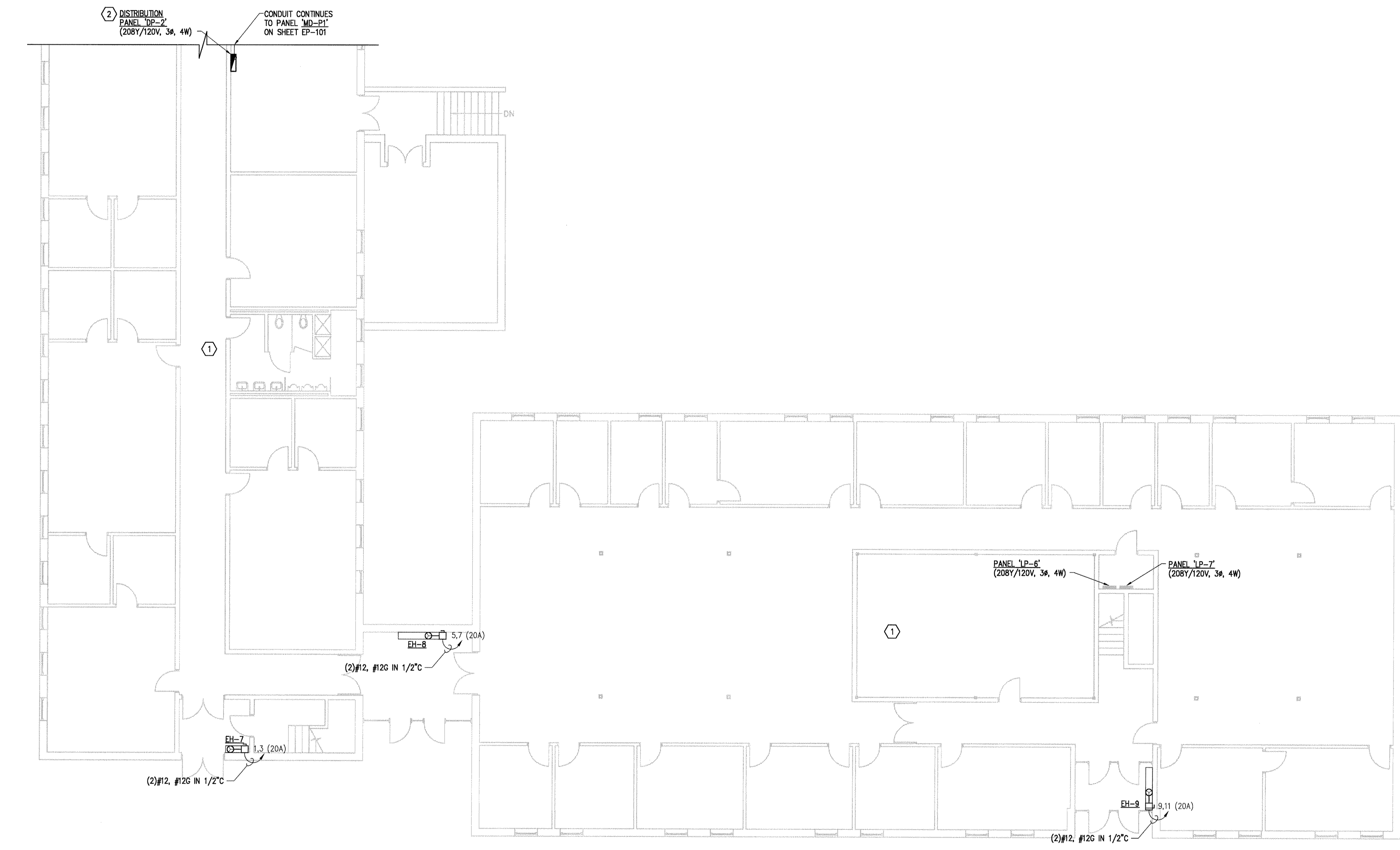
PROJECT NO: 2002218  
 DWG. FILE: EP101.dwg  
 DRAWN BY: BJW  
 CHK'D BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 FIRST FLOOR  
 PLAN -  
 POWER**

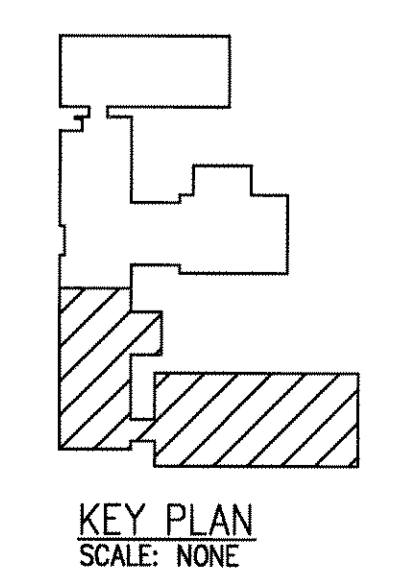
EP-101  
 SHEET X OF X

1 2 3 4 5 6

E  
D  
C  
B  
A



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



**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DO NOT SCALE FROM PRINTS.
- G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
- G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
- G8. ALL NEW WALL HEATERS SHALL BE FED FROM LOCAL PANELS UNLESS OTHERWISE NOTED OR INDICATED. THE FIRST TWO NUMBERS ARE CIRCUIT NUMBERS (FOR GROUPING PURPOSES ONLY) FOLLOWED BY A NUMBER IN PARENTHESIS TO INDICATE THE AMPERAGE OF THE BREAKER.
- G9. 20A/120V CIRCUITS SHALL NOT EXCEED 1440VA (12 AMPS). WIRE AND CONDUIT SIZE SHALL BE 2#12(#126) IN 1/2\"C.
- G10. CIRCUIT NUMBERS BY DEVICES ARE SHOWN FOR GROUPING PURPOSES. ACTUAL CIRCUITS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- G11. CONTRACTOR SHALL FIELD COORDINATE ALL HVAC POWER CONNECTIONS.
- G12. REFER TO PANEL FEEDER RISER DIAGRAM FOR MORE INFORMATION.
- G13. ALL EXPOSED BRANCH CIRCUITS SHALL BE IN CONDUIT WITH A GROUND WIRE AND ALL CONCEALED BRANCH CIRCUITS SHALL BE IN MC CABLE WITH A GROUND WIRE.
- G14. CONTRACTOR SHALL FIELD ROUTE CONDUIT/ MC CABLE FEEDER TO HVAC UNITS AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES IN THE HALL OR ANY MECHANICAL EQUIPMENT, ETC.

**KEYED NOTES:**

- ① FIELD WIRE HVAC CONTROLS TO THERMOSTAT AND HUMIDISTAT AS REQUIRED. REFER TO MECHANICAL PLANS FOR LOCATION.
- ② NEW POWER DISTRIBUTION PANEL DP-2 (208Y/120V, 3ø, 4W). SEE SHEET EP-600 FOR MORE INFORMATION.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By \_\_\_\_\_

\_\_\_\_\_

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

\_\_\_\_\_

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

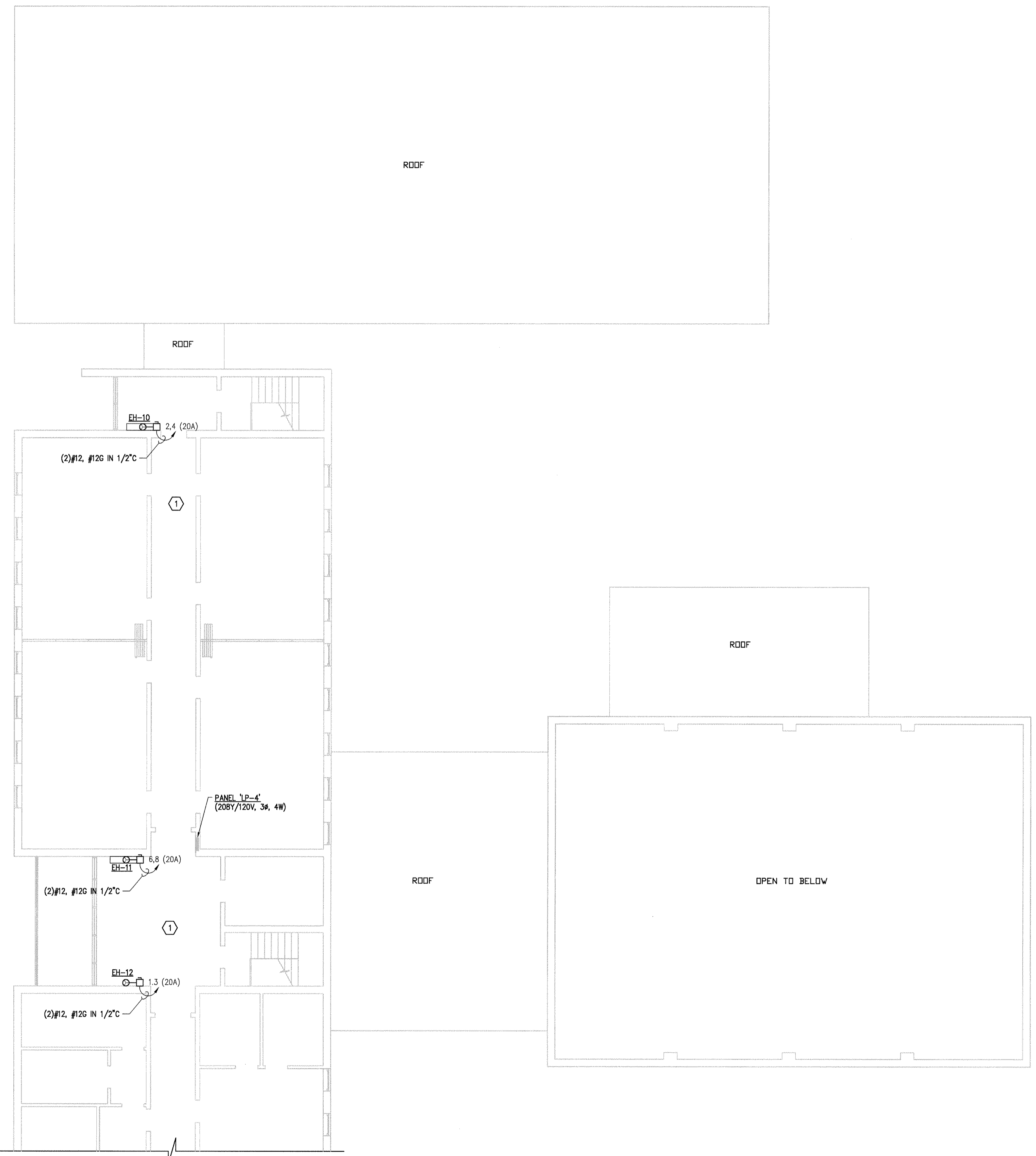
PROJECT NO: 2002218  
 DWG. FILE: EP102.dwg  
 DRAWN BY: BJW  
 CHK'D BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 FIRST FLOOR  
 PLAN -  
 POWER**

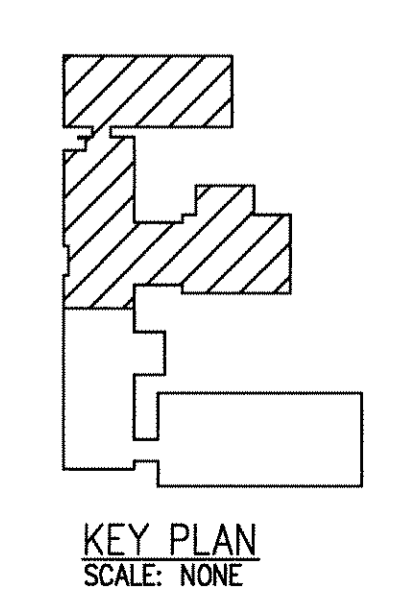
EP-102  
 SHEET X OF X

1 2 3 4 5 6

E  
D  
C  
B  
A



NORTH  
PARTIAL SECOND FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"



**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DO NOT SCALE FROM PRINTS.
- G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
- G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
- G8. ALL NEW WALL HEATERS SHALL BE FED FROM LOCAL PANELS UNLESS OTHERWISE NOTED OR INDICATED. THE FIRST TWO NUMBERS ARE CIRCUIT NUMBERS FOR GROUPING PURPOSES ONLY, FOLLOWED BY A NUMBER IN PARENTHESIS TO INDICATE THE AMPERAGE OF THE BREAKER.
- G9. 20A/120V CIRCUITS SHALL NOT EXCEED 1440VA (12 AMPS). WIRE AND CONDUIT SIZE SHALL BE 2#12(#12G) IN 1/2" C.
- G10. CIRCUIT NUMBERS BY DEVICES ARE SHOWN FOR GROUPING PURPOSES. ACTUAL CIRCUITS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- G11. CONTRACTOR SHALL FIELD COORDINATE ALL HVAC POWER CONNECTIONS.
- G12. REFER TO PANEL FEEDER RISER DIAGRAM FOR MORE INFORMATION.
- G13. ALL EXPOSED BRANCH CIRCUITS SHALL BE IN CONDUIT WITH A GROUND WIRE AND ALL CONCEALED BRANCH CIRCUITS SHALL BE IN MC CABLE WITH A GROUND WIRE.
- G14. CONTRACTOR SHALL FIELD ROUTE CONDUIT/ MC CABLE FEEDER TO HVAC UNITS AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES IN THE HALL OR ANY MECHANICAL EQUIPMENT, ETC.

**KEYED NOTES:**

- ① FIELD WIRE HVAC CONTROLS TO THERMOSTAT AND HUMIDISTAT AS A MINIMUM AND AS REQUIRED. REFER TO MECHANICAL PLANS FOR LOCATION.

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

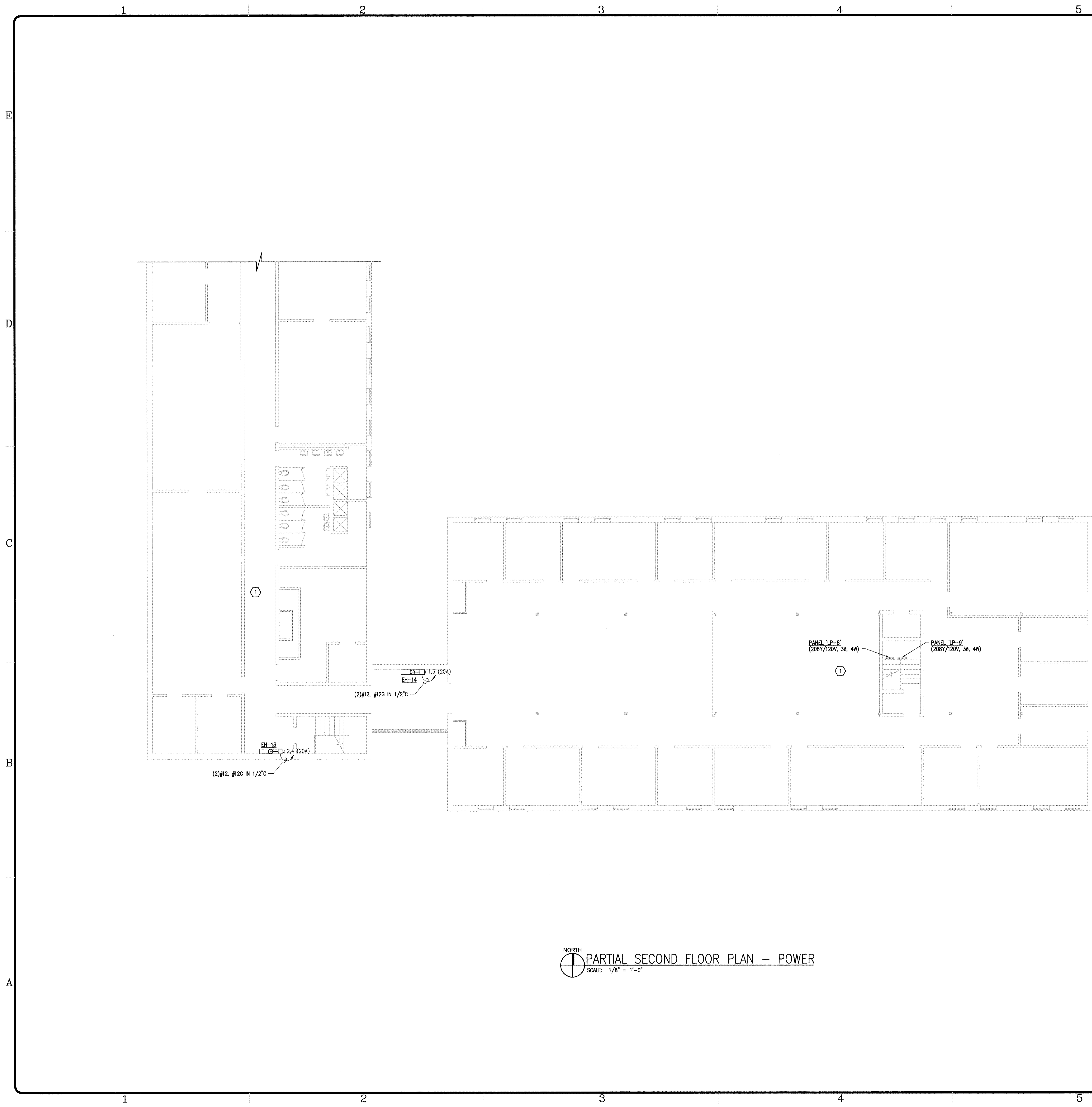
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

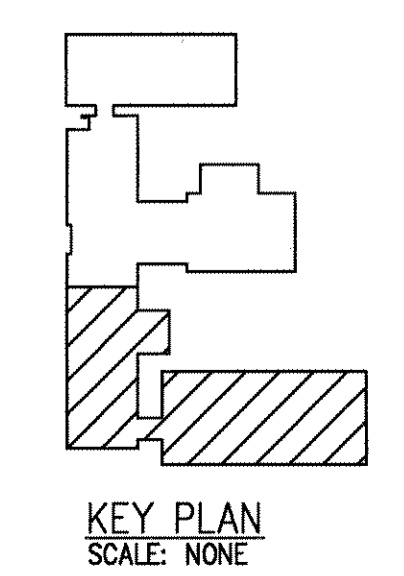
PROJECT NO: 2002218  
DWG. FILE: EP103.dwg  
DRAWN BY: BLW  
CHK'D BY: WJS  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
SECOND FLOOR  
PLAN -  
POWER**

**EP-103**  
SHEET X OF X



NORTH  
 PARTIAL SECOND FLOOR PLAN - POWER  
 SCALE: 1/8" = 1'-0"



**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DO NOT SCALE FROM PRINTS.
- G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
- G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
- G8. ALL NEW WALL HEATERS SHALL BE FED FROM LOCAL PANELS UNLESS OTHERWISE NOTED OR INDICATED. THE FIRST TWO NUMBERS ARE CIRCUIT NUMBERS (FOR GROUPING PURPOSES ONLY) FOLLOWED BY A NUMBER IN PARENTHESIS TO INDICATE THE AMPERAGE OF THE BREAKER.
- G9. 20A/120V CIRCUITS SHALL NOT EXCEED 1440VA (12 AMPS). WIRE AND CONDUIT SIZE SHALL BE 2#12(#12G) IN 1/2" C.
- G10. CIRCUIT NUMBERS BY DEVICES ARE SHOWN FOR GROUPING PURPOSES. ACTUAL CIRCUITS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- G11. CONTRACTOR SHALL FIELD COORDINATE ALL HVAC POWER CONNECTIONS.
- G12. REFER TO PANEL FEEDER RISER DIAGRAM FOR MORE INFORMATION.
- G13. ALL EXPOSED BRANCH CIRCUITS SHALL BE IN CONDUIT WITH A GROUND WIRE AND ALL CONCEALED BRANCH CIRCUITS SHALL BE IN MC CABLE WITH A GROUND WIRE.
- G14. CONTRACTOR SHALL FIELD ROUTE CONDUIT/ MC CABLE FEEDER TO HVAC UNITS AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES IN THE HALL OR ANY MECHANICAL EQUIPMENT, ETC.

**KEYED NOTES:**

- ① FIELD WIRE HVAC CONTROLS TO THERMOSTAT AND HUMIDISTAT AS REQUIRED. REFER TO MECHANICAL PLANS FOR LOCATION.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By \_\_\_\_\_

\_\_\_\_\_

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

\_\_\_\_\_

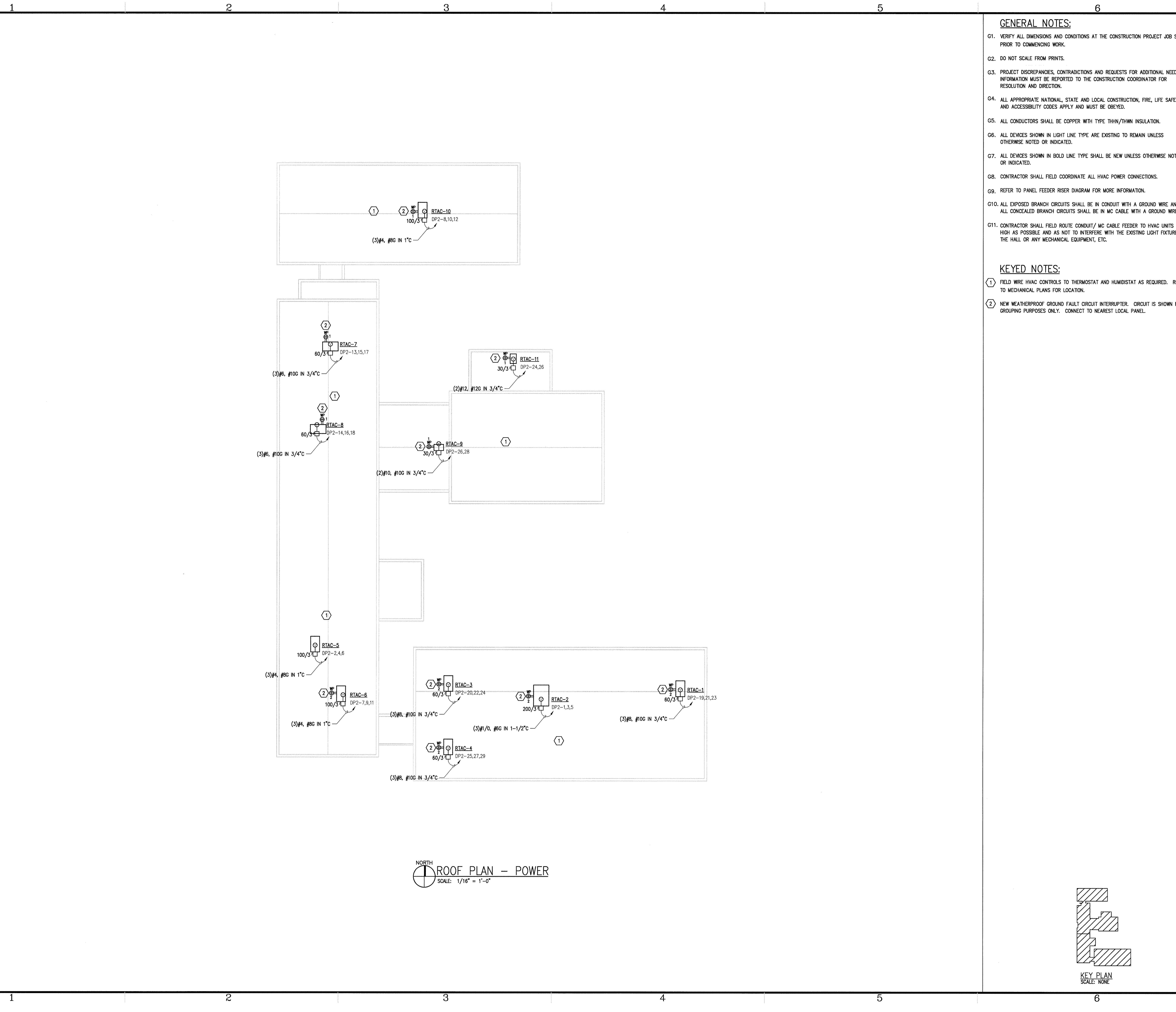
MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT
REVISION BLOCK		

PROJECT NO: 2002218  
 DWG. FILE: EP104.dwg  
 DRAWN BY: BJW  
 CHK'D BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
**PARTIAL  
 SECOND FLOOR  
 PLAN -  
 POWER**

EP-104  
 SHEET X OF X

E  
D  
C  
B  
A



- GENERAL NOTES:**
- G1. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
  - G2. DO NOT SCALE FROM PRINTS.
  - G3. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
  - G4. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
  - G5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
  - G6. ALL DEVICES SHOWN IN LIGHT LINE TYPE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR INDICATED.
  - G7. ALL DEVICES SHOWN IN BOLD LINE TYPE SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
  - G8. CONTRACTOR SHALL FIELD COORDINATE ALL HVAC POWER CONNECTIONS.
  - G9. REFER TO PANEL FEEDER RISER DIAGRAM FOR MORE INFORMATION.
  - G10. ALL EXPOSED BRANCH CIRCUITS SHALL BE IN CONDUIT WITH A GROUND WIRE AND ALL CONCEALED BRANCH CIRCUITS SHALL BE IN MC CABLE WITH A GROUND WIRE.
  - G11. CONTRACTOR SHALL FIELD ROUTE CONDUIT/ MC CABLE FEEDER TO HVAC UNITS AS HIGH AS POSSIBLE AND AS NOT TO INTERFERE WITH THE EXISTING LIGHT FIXTURES IN THE HALL OR ANY MECHANICAL EQUIPMENT, ETC.

- KEYED NOTES:**
- ① FIELD WIRE HVAC CONTROLS TO THERMOSTAT AND HUMIDISTAT AS REQUIRED. REFER TO MECHANICAL PLANS FOR LOCATION.
  - ② NEW WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER. CIRCUIT IS SHOWN FOR GROUPING PURPOSES ONLY. CONNECT TO NEAREST LOCAL PANEL.

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

*mna*

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

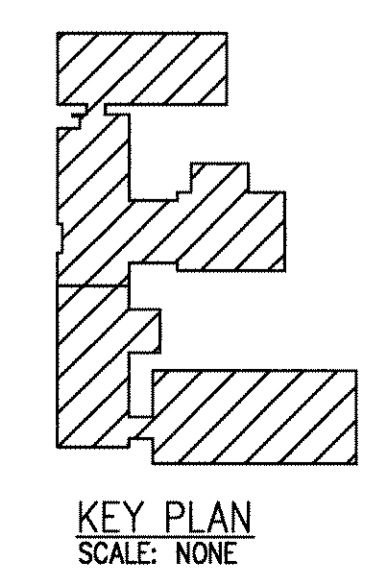
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION

PROJECT NO:	2002218
DWG. FILE:	EP105.dwg
DRAWN BY:	BJW
CHKD BY:	WAS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**ROOF  
PLAN -  
POWER**

EP-105  
SHEET X OF X

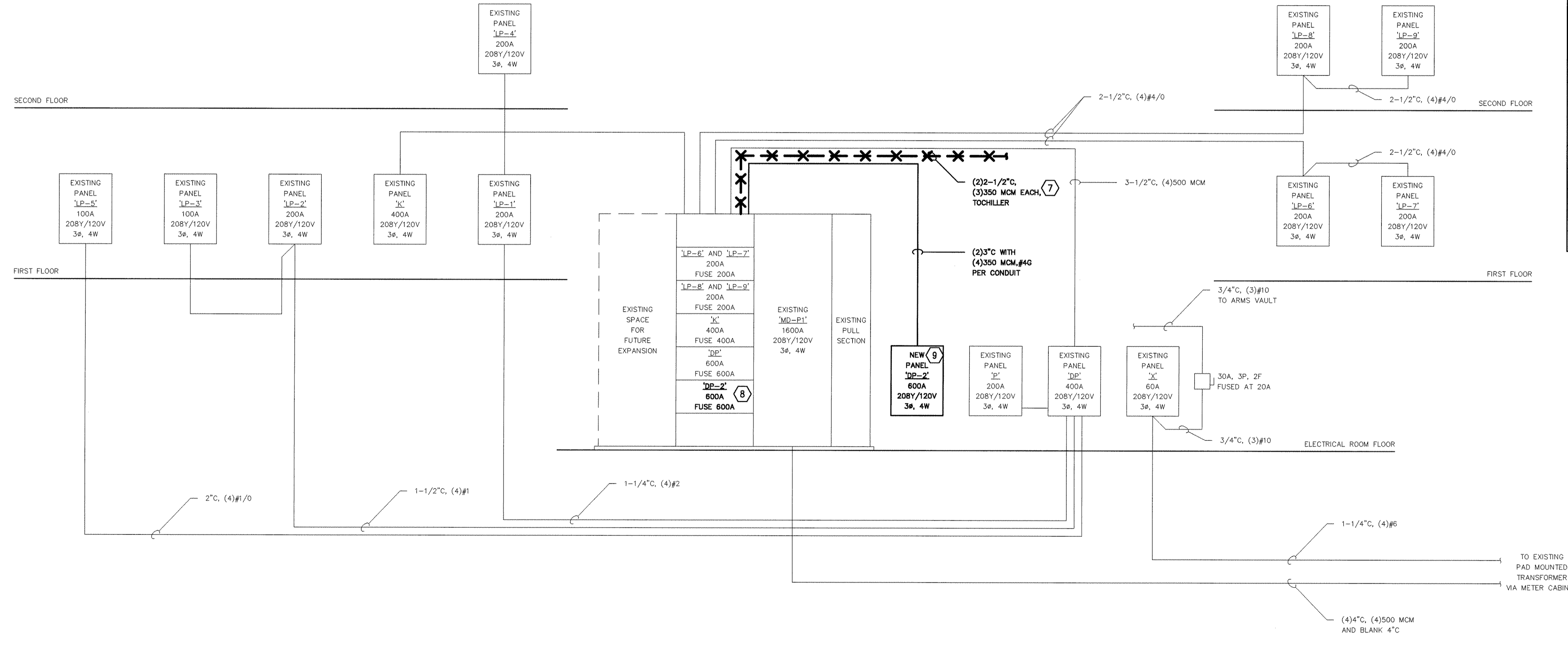


CONDUIT LOCATION OR APPLICATION	CONDUIT TYPE						
	RIGID	INTERMEDIATE	E.M.T.	FLEXIBLE	FLEXIBLE W/ W.P. JACKET	P.V.C. SCHED 40	P.V.C. SCHED 80
IN CONCRETE SLAB (NOT LARGER THAN 1" C)		③					
CONCEALED IN WALLS, ABOVE CEILINGS AND IN FURRED SPACES							○
IN MOIST LOCATIONS AND EXPOSED TO WEATHER	③						
FEEDER AND POWER CIRCUITS RUN EXPOSED		③	④				
BRANCH LIGHTING, RECEPTACLE OR SIGNAL CIRCUITS RUN EXPOSED		③	④				
UNDERGROUND TO REMOTE LOCATIONS (FLOODLIGHTS, ETC.)	③				⑤	⑤	
FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION				○			
FINAL CONNECTION TO EQUIP. IN MOIST LOCATIONS					○		
SHORT CONNECTIONS WHERE NON-FLEXIBLE CONDUIT IS IMPRACTICAL							○

- NOTES:
- - TYPE OF CONDUIT TO BE USED
  - ① - ENCLOSE CONDUIT IN 3" CONCRETE ENVELOPE
  - ② - CONVERT TO RIGID OR INTER. THROUGH SLAB
  - ③ - USE THREADED FITTINGS ONLY
  - ④ - E.M.T. ALLOWED ABOVE 8'-0"
  - ⑤ - CONVERT TO RIGID UNDER ROADS, DRIVES AND PARKING AREAS

PANEL:	LOCATION:	MOUNTING SURFACE:	VOLTAGE:			MAIN:	NOTES:
			208Y/120V	600A MLO	HVAC EQUIPMENT		
DP-2	MECHANICAL ROOM		CONNECTED LOAD (KW)				
			PH. A	PH. B	PH. C		
RTAC-2			12.4	6.0		2	RTAC-5
						4	
						6	
RTAC-6			6.0	6.0		8	RTAC-10
						10	
						12	
RTAC-7			5.4	5.4		14	RTAC-8
						16	
						18	
RTAC-1			4.4	4.4		20	RTAC-3
						22	
						24	
RTAC-4			4.4	2.4		26	RTAC-9
						28	
						30	
SPARE			2.4			32	RTAC-11
						34	
						36	
SPARE						38	SPARE
						40	
						42	
TOTAL CONNECTED LOAD (KW) =			172.8	59.2	56.8	-	

SYMBOLS SCHEDULE	
SYMBOL	DESCRIPTION
□	FLUORESCENT LIGHTING OUTLET
○	INCANDESCENT OR H.I.D. LIGHTING OUTLET
—	FLUORESCENT STRIP FIXTURE
○	LIGHT FIXTURES ON EMERGENCY LIGHTING CIRCUIT
○	LIGHT FIXTURES ON 'NIGHT-LIGHT' CIRCUIT
○	EXIT LIGHT (CEILING)(WALL)
⊕	EXIT LIGHT WITH DIRECTIONAL ARROWS (CEILING)(WALL)
⊕	DUPLEX RECEPTACLE (MOUNTED AT +18" ON WALL UNLESS OTHERWISE NOTED)(FLOOR)
⊕	WEATHERPROOF DUPLEX RECEPTACLE
⊕	HEAVY DUTY RECEPTACLE (SIZE & TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS)
⊕	SINGLE GANG RECEPTACLE (WALL)(FLOOR)
⊕	ELECTRICAL CONNECTION (AS NOTED ON PLANS)
⊕	MOTOR OUTLET (SINGLE PHASE)(THREE PHASE)
⊕	INDICATES OUTLET IN VERTICAL ALIGNMENT
⊕	ISOLATED GROUND RECEPTACLE
⊕	MANUAL MOTOR STARTER
⊕	MAGNETIC STARTER WITH DISCONNECT
⊕	DISCONNECT OR SAFETY SWITCH (CIRCUIT BREAKER TYPE)
⊕	DISCONNECT OR SAFETY SWITCH (FUSED TYPE)
⊕	DISCONNECT SWITCH (NON-FUSED)
⊕	METER
⊕	AMMETER
⊕	TRANSFORMER (SIZE & TYPE AS NOTED ON PLANS)
⊕	LIGHTING PANEL
⊕	DISTRIBUTION PANEL
⊕	SPECIAL PANEL (AS NOTED ON PLANS)
S	SINGLE POLE SWITCH
S	TWO POLE SWITCH
S	THREE-WAY SWITCH
S	SWITCH WITH PILOT LIGHT
S	DIMMER SWITCH
S	MOMENTARY CONTACT SWITCH
⊕	JUNCTION BOX
⊕	PULL BOX
⊕	FIRE ALARM SYSTEM CONTROL PANEL
⊕	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
⊕	FIRE ALARM STATION
⊕	FIRE ALARM HORN (NO STROBE) (WITH STROBE)
⊕	FIRE ALARM STROBE (WALL MOUNTED)(CEILING MOUNTED)
⊕	HEAT DETECTOR (FIXED TEMPERATURE TYPE)
⊕	HEAT DETECTOR (RATE OR RISE TYPE)
⊕	IONIZATION TYPE SMOKE DETECTORS (SURFACE BACK BOX)
⊕	IONIZATION TYPE SMOKE DETECTORS (RECESSED BACK BOX)
⊕	IONIZATION TYPE SMOKE DETECTOR (DUCT TYPE)



PANEL FEEDER RISER DIAGRAM  
NO SCALE

- PANEL FEEDER RISER DIAGRAM NOTES:
- ① ALL ITEMS SHOWN IN BOLD AND DASHED LINE TYPE WITH X'S SHALL BE DEMOLISHED IN THEIR ENTIRETY.
  - ② ALL ITEMS SHOWN IN LIGHT AND CONTINUOUS LINE TYPE ARE EXISTING TO REMAIN.
  - ③ ALL ITEMS SHOWN IN BOLD AND CONTINUOUS LINE TYPE SHALL BE NEW.
  - ④ ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION.
  - ⑤ CONDUITS SHALL NOT BE USED AS A GROUND CONDUCTOR.
  - ⑥ ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE GROUNDING CONDUCTORS.
  - ⑦ CONTRACTOR SHALL REMOVE EXISTING FEEDS AND CONTROLS TO CHILLER THAT SHALL BE REMOVED.
  - ⑧ CONTRACTOR SHALL CLEAN AND CHECK FOR PROPER OPERATION AND LUBE THE EXISTING FUSED SWITCH THAT FED CHILLER AND INSTALL NEW FUSES PRIOR TO INSTALLING NEW PANEL DP-2.
  - ⑨ CONTRACTOR SHALL LOCATE NEW 600A, 3Ø, 4W PANEL DP-2 IN EXISTING ELECTRICAL ROOM. PROVIDE ALL WORK AND EQUIPMENT NECESSARY.

MUSSETT, NICHOLAS & ASSOCIATES  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA 46202

phone: (317) 631-9241  
fax: (317) 631-6619

Certified By

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

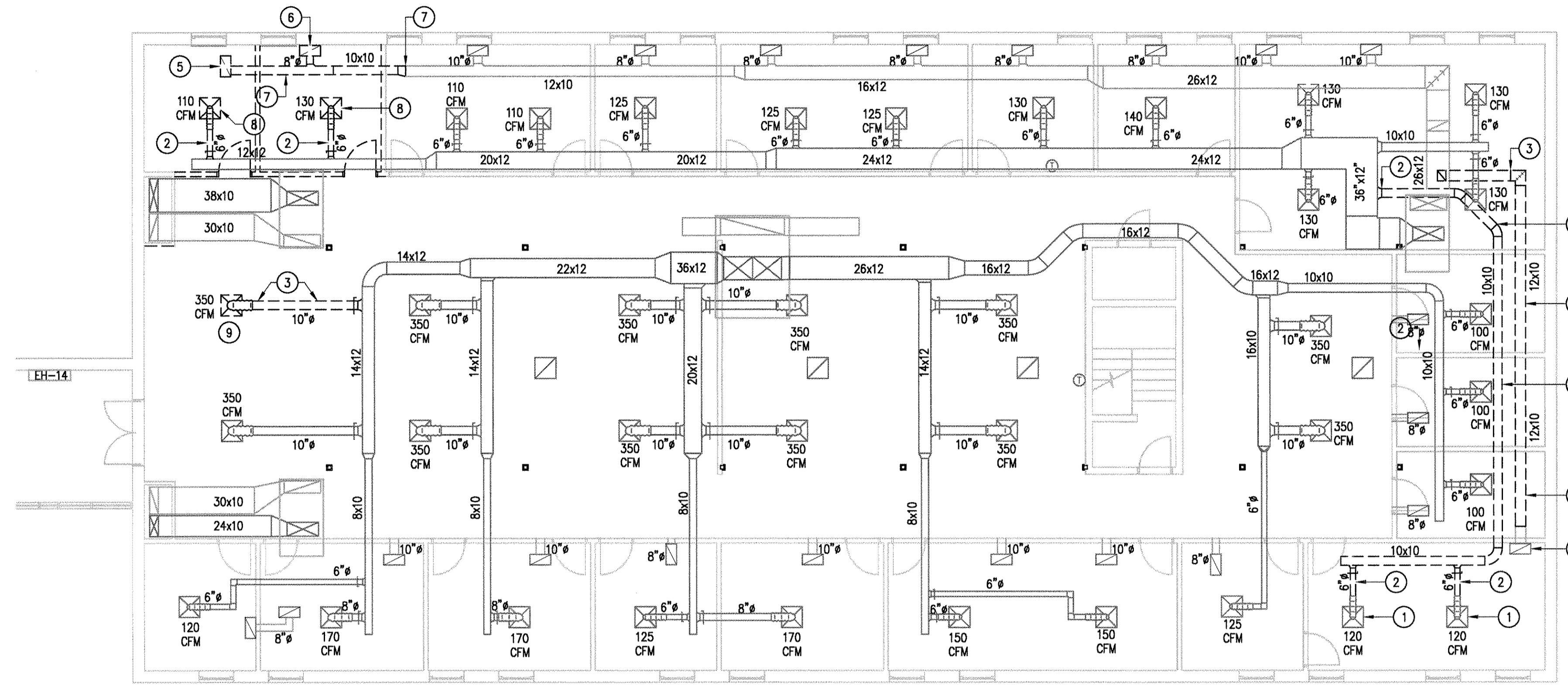
MARK	DATE	DESCRIPTION
REVISION BLOCK		

PROJECT NO:	2002218
DWG. FILE:	EP600.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

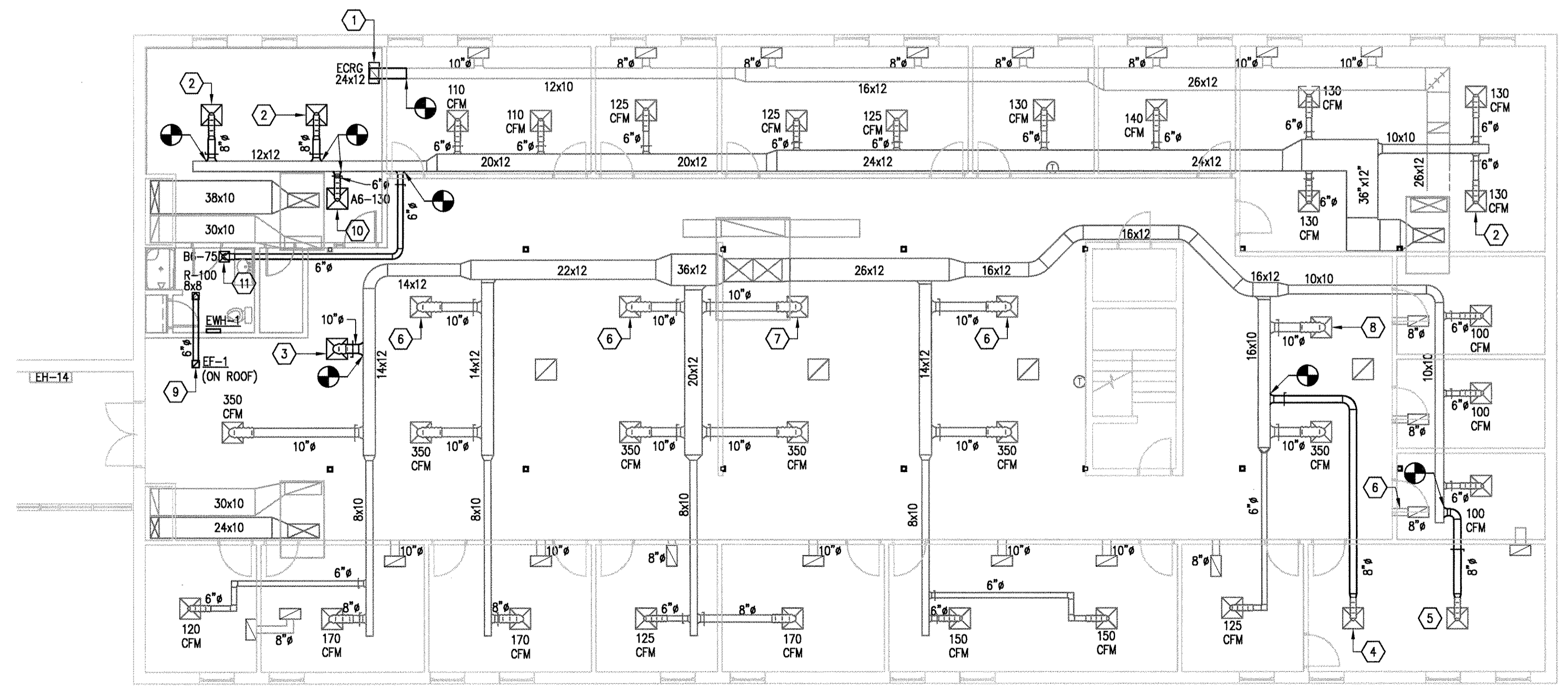
SHEET TITLE  
POWER SCHEDULES AND DETAILS

EP-600  
SHEET X OF X

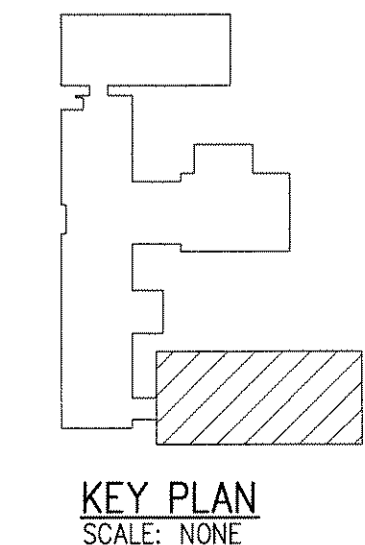




NORTH  
PARTIAL SECOND FLOOR PLAN - HVAC DEMOLITION  
SCALE: 1/8" = 1'-0"



NORTH  
PARTIAL SECOND FLOOR PLAN - HVAC  
SCALE: 1/8" = 1'-0"



**LINETYPE LEGEND:**

- EXISTING EQUIPMENT, DUCTS, DIFFUSERS, ETC. TO REMAIN.
- EQUIPMENT, DUCTS, DIFFUSERS, ETC. TO BE REMOVED.
- NEW EQUIPMENT, DUCTS, DIFFUSERS, ETC. TO BE INSTALLED.

**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DIMENSIONS SHOWN ARE FROM/TO FACE OF C.M.U., OR METAL STUDS UNLESS NOTED OTHERWISE.
- G3. DO NOT SCALE FROM DOCUMENTS.
- G4. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G5. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G6. REFER TO ARCHITECTURAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING WORK PERTAINING TO THIS PROJECT.

**DEMOLITION NOTES:**

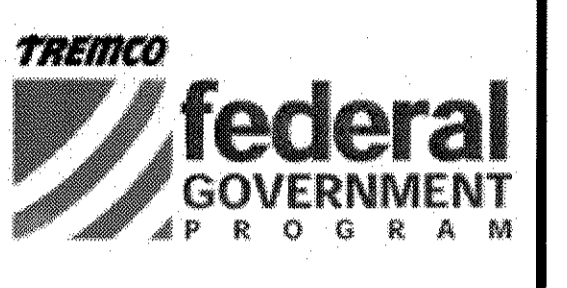
1. EXISTING 24x24 SQUARE CEILING DIFFUSER AND ASSOCIATED 6" FLEX DUCT TO REMAIN.
2. REMOVE EXISTING SUPPLY DUCT AND ALL ASSOCIATED HANGER/SUPPORT DEVICES BACK TO MAIN AND CAP.
3. REMOVE EXISTING RETURN DUCT AND ALL ASSOCIATED HANGER/SUPPORT DEVICES BACK TO MAIN AND CAP.
4. EXISTING 24x12 RETURN GRILLE, 12x10 ELBOW, AND 12x10 DUCT CONNECTING ELBOW AND GRILLE TO REMAIN.
5. REMOVE EXISTING 24x12 RETURN GRILLE AND STORE FOR REINSTALLATION. REFER TO SHEET M101, PLAN NOTE #1, FOR NEW GRILLE LOCATION.
6. REMOVE EXISTING 24x12 RETURN GRILLE AND RETURN TO OWNER.
7. REMOVE EXISTING RETURN DUCT AND ALL ASSOCIATED HANGER/SUPPORT DEVICES TO POINT INDICATED. PREPARE DUCT FOR TIE IN OF NEW.
8. REMOVE EXISTING 24x24 SQUARE CEILING DIFFUSER WITH 6" NECK AND STORE FOR REINSTALLATION. REFER TO SHEET M101, PLAN NOTE #2, FOR NEW DIFFUSER LOCATION.
9. REMOVE EXISTING 24x24 SQUARE CEILING DIFFUSER WITH 10" NECK AND STORE FOR REINSTALLATION. REFER TO SHEET M101, PLAN NOTE #3, FOR NEW DIFFUSER LOCATION.

**PLAN NOTES:**

1. RELOCATED 24x12 RETURN GRILLE. EXTEND 12x10 RETURN DUCT FROM GRILLE AND CONNECT TO EXISTING 12x10 RETURN DUCT AS INDICATED.
2. RELOCATED 24x24 SQUARE CEILING DIFFUSER WITH 6" NECK. BALANCE TO 150 CFM.
3. RELOCATED 24x24 SQUARE CEILING DIFFUSER WITH 10" NECK. BALANCE TO 270 CFM.
4. CONNECT EXISTING 24x24 SQUARE CEILING DIFFUSER TO NEW 6" SUPPLY DUCT. ROUTE NEW SUPPLY DUCT BACK AND CONNECT TO EXISTING 16x10 SUPPLY DUCT. BALANCE DIFFUSER TO 120 CFM.
5. CONNECT EXISTING 24x24 SQUARE CEILING DIFFUSER TO NEW 6" SUPPLY DUCT. ROUTE NEW SUPPLY DUCT BACK AND CONNECT TO EXISTING 10x10 SUPPLY DUCT. BALANCE DIFFUSER TO 120 CFM.
6. BALANCE EXISTING 24x24 SUPPLY DIFFUSER TO 260 CFM.
7. BALANCE EXISTING 24x24 SUPPLY DIFFUSER TO 225 CFM.
8. BALANCE EXISTING 24x24 SUPPLY DIFFUSER TO 250 CFM.
9. 8x8 EXHAUST DUCT UP TO E-1 ON ROOF. MAINTAIN MINIMUM CLEARANCE OF 10' BETWEEN EXHAUST OUTLET AND OUTDOOR AIR INTAKE OF ROOFTOP AIR HANDLING UNIT.
10. NEW 24x24 SQUARE CEILING SUPPLY DIFFUSER.
11. NEW 12x12 SQUARE CEILING SUPPLY DIFFUSER.

MUSSETT, NICHOLAS & ASSOCIATES  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA 46202  
phone: (317) 631-9241  
fax: (317) 631-6619



Renovation and Additions to United States Army Reserve Center Indianapolis, IN

MARK	DATE	DESCRIPTION
0	03/25/04	BID SET

PROJECT NO: 2004041  
DWG. FILE: M101.dwg  
DRAWN BY: JMR  
CHK'D BY: WJS  
COPYRIGHT 2004  
MUSSETT, NICHOLAS AND ASSOC., INC.

SHEET TITLE  
PARTIAL SECOND FLOOR PLAN

M101  
1 OF 2

IND016-0028 m101

FLOOR DRAIN AND CLEANOUT SCHEDULE			
FLOOR DRAINS		CLEANOUTS	
FD-A		CO-A	
BASE OF DESIGN	JOSAM 30000-A	BASE OF DESIGN	JOSAM 58900
BODY MATERIAL	CAST IRON	BODY MATERIAL	CAST IRON
STRAINER MATERIAL	CAST IRON	OUTLET CONN.	NO HUB
TOP FINISH	NICKEL BRONZE	CLOSURE	BRONZE
TRAP	DEEP SEAL	COVER MATERIAL	-
LOADING CLASS	LIGHT DUTY	COVER FINISH	-
TOP SHAPE	ROUND	COVER SHAPE	-
REMARKS	-	LOADING CLASS.	-
		REMARKS	-

CEILING DIFFUSER/GRILLE SCHEDULE			
MARK NO.	A6	B6	R
MANUFACTURER	TITUS	TITUS	TITUS
MODEL NO.	TMS	TMS	350FL
DESCRIPTION	SQUARE DIFFUSER	SQUARE DIFFUSER	EXHAUST GRILLE
	SPEC. SECTION 15855	SPEC. SECTION 15855	SPEC. SECTION 15855
MAXIMUM CFM	185	170	-
APD (H. W.C.) AT MAXIMUM CFM	0.09	0.09	0.05
MAX - NC LEVEL AT MAXIMUM CFM	20	20	20
NECK SIZE	6"ø	6"ø	-
FACE SIZE	24x24	12x12	-
MODULE SIZE	24x24	12x12	SEE PLANS
CONST. MATERIAL	AL	AL	AL
FINISH	WE	WE	WE
ACCESSORIES	-	-	-
REMARKS			3/4" BLADE SPACING, 35' DEFLECTION

PLUMBING EQUIPMENT SCHEDULE	
TAG	DESCRIPTION
DWH-1	ELECTRIC DOMESTIC WATER HEATER "LOCHINVAR" MODEL JRJ031K 208 VOLTS, SINGLE PHASE NOMINAL REQUIRED CAPACITY: 30 GALLONS TANK DIMENSIONS: 22" DIA. x 29-3/4" TALL
TMV-1	DOMESTIC HOT WATER THERMOSTATIC MIXING VALVE "LAWLER" MODEL #67-10 5 PSI PRESSURE DROP @ 2.5 GPM FLOW MINIMUM FLOW: 1/2 GPM OUTLET TEMPERATURE SETPOINT: 110" (ADJUSTABLE)

PLUMBING FIXTURE SCHEDULE						
MARK	DESCRIPTION	PIPE CONNECTION				MOUNTING HEIGHT
		HW	CW	W	V	
WC-1	WATER CLOSET	-	1"	4"	2"	SEAT AT 15"
L-2	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	RM AT 32"
SH-2	SHOWER	3/4"	3/4"	2"	1 1/2"	CONTROL VALVE AT 43" HEAD AT 85"

\*PURCHASED BY MNA CONSTRUCTORS, THEN ASSIGNED TO HVAC CONTRACTOR FOR INSTALLATION.

FAN AND POWER VENTILATOR SCHEDULE	
MARK NO.	EF-1
NAME/SERVICE	RESTROOM EXHAUST
LOCATION	ROOF - RESTROOM 101
MANUFACTURER	GREENHECK
MODEL	G-060-D
TYPE	CENTRIFUGAL DIRECT DRIVE
SPECIFICATION SECTION	15836
ELEVATION (FEET ABOVE SEA LEVEL)	-
AIRFLOW RATE (CFM)	100
TOTAL STATIC PRESSURE	.30
MAXIMUM BRAKE HORSEPOWER	-
TYPE	ODP
SPEED (RPM)	1550
HORSEPOWER	1/60
VOLTS/HERTZ/PHASE	115/60/1
CONTROLLER	-
TYPE	-
SPECIFICATION SECTION	-

\* FAN SHALL RUN CONTINUOUSLY.  
\* PROVIDE ROOF CURB, BIRDSCREEN, AND BACKDRAFT DAMPER.

\*PURCHASED BY MNA CONSTRUCTORS, THEN ASSIGNED TO HVAC CONTRACTOR FOR INSTALLATION.

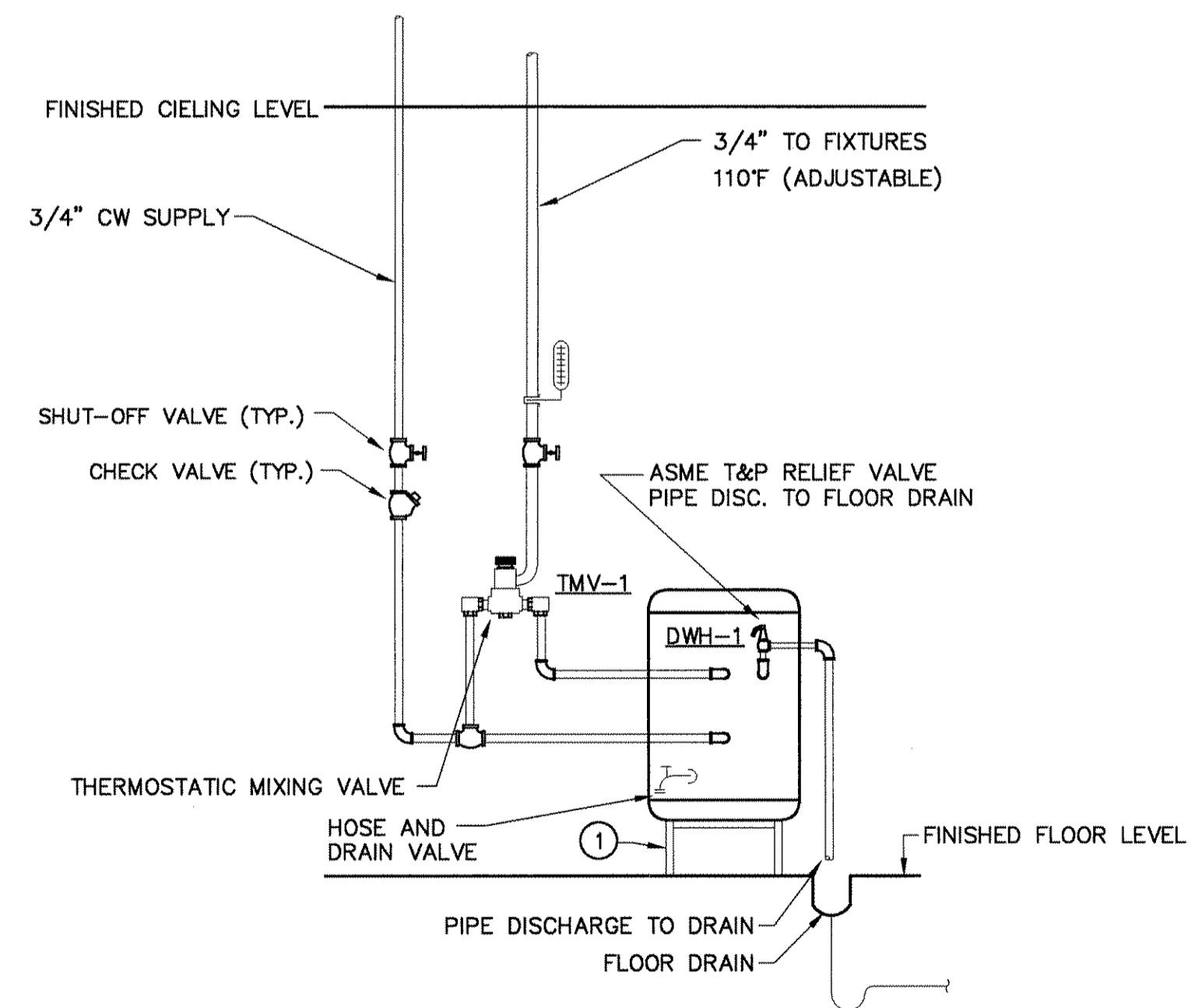
WALL HEATERS	
MARK NO.	EW-1
NAME	ELECTRIC WALL HEATER
MANUFACTURER	QMARK
MODEL	CWH3408
LOCATION	RESTROOM 101
SERVICE	HEATING
VOLTS @ 60 Hz	208
PHASE	1
WATTS	2000
AMPS	9.6
SHIPPING WEIGHT	-
BTUH	-
OPTIONS	UNIT MOUNTED THERMOSTAT

\*ELECTRIC WALL HEATER TO BE SURFACE MOUNTED.

PIPING INSULATION SCHEDULE (INDOOR)		
SYSTEM	DOMESTIC HOT WATER & RETURN	DOMESTIC COLD WATER
FLUID TEMP. RANGE (°F)	100-130	40-75
INSULATION TYPE	MF OR FE	MF OR FE
JACKET TYPE	-	-
VAPOR BARRIER REQ'D	NO	YES
RUNOUTS (NOTE 1 & 2)	0.5	---
1" & LESS	0.5	0.5
1.25" TO 2"	-	-
2.5" TO 4"	-	-
5" & ABOVE	-	-

NOTES: 1. RUNOUTS NOT EXCEEDING 12 FEET IN LENGTH AND 2" PIPE TO INDIVIDUAL HVAC TERMINAL UNITS.  
2. RUNOUTS THAT ARE NOT LARGER THAN 1" AND NON-CIRCULATING TO INDIVIDUAL PLUMBING UNITS.

ABBREVIATIONS  
INSULATION TYPES  
FE FLEXIBLE ELASTOMERIC  
MF MINERAL FIBER (FIBERGLASS)



① PLUMBING CONTRACTOR TO PROVIDE STAND TO HOLD ELECTRIC WATER HEATER. BOTTOM OF WATER HEATER AT MINIMUM 18" A.F.F.

Ⓐ DOMESTIC WATER FLOW DIAGRAM  
NO SCALE

MUSSETT, NICHOLAS & ASSOCIATES  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA 46202  
phone: (317) 631-9241  
fax: (317) 631-6619



Renovation and Additions to  
United States  
Army Reserve Center  
Indianapolis, IN

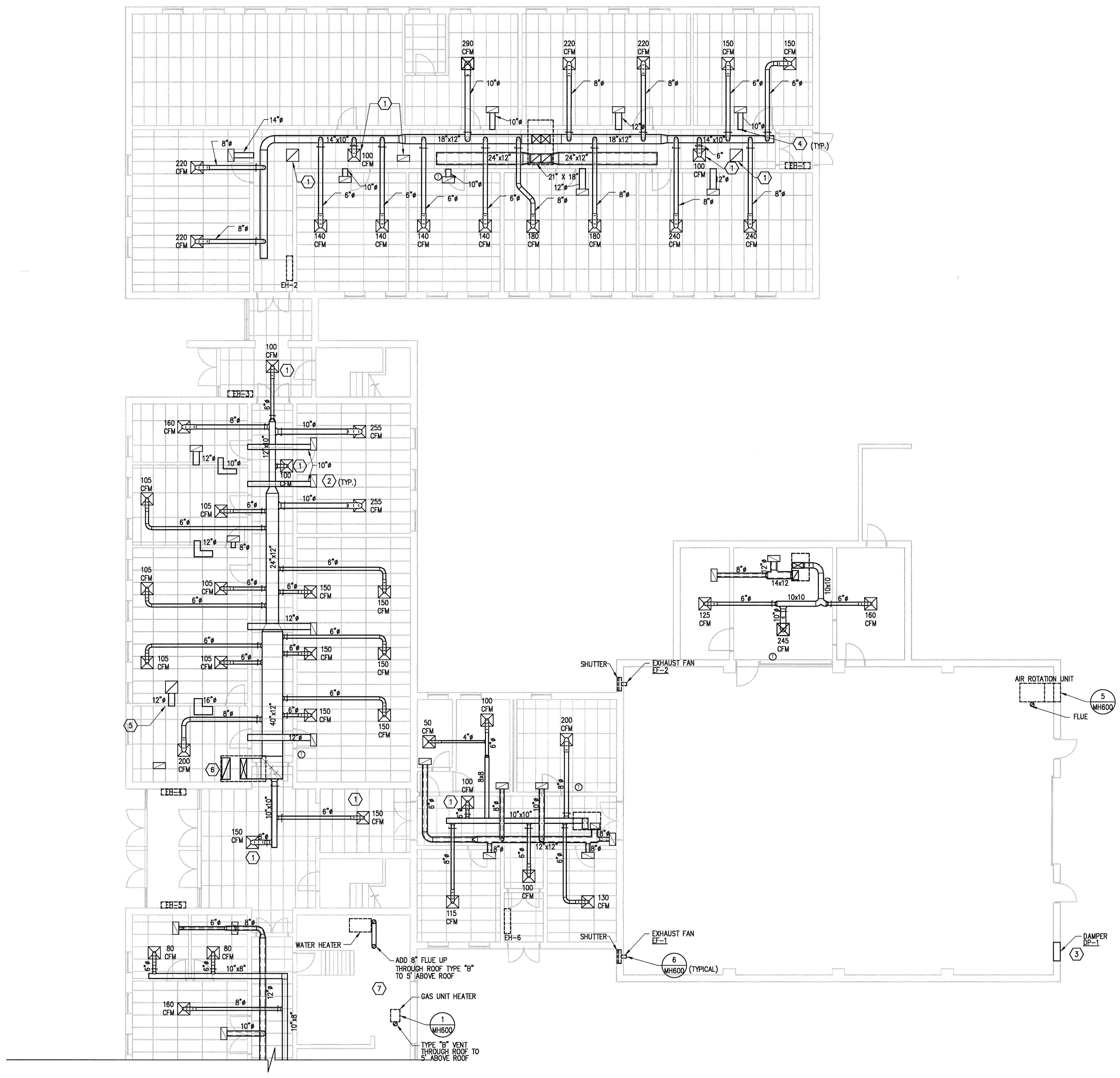
Certified By

MARK	DATE	DESCRIPTION
0	03/25/04	BID SET

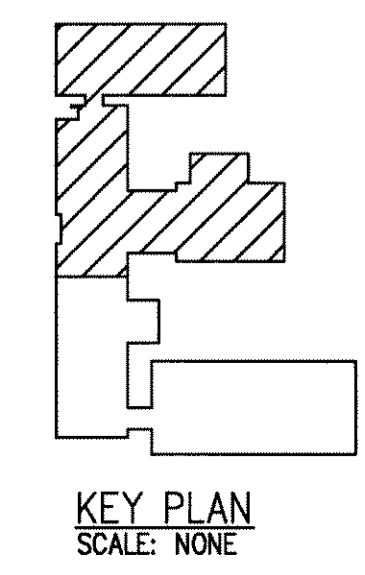
PROJECT NO.	2004041
DWG. FILE	M501.dwg
DRAWN BY	JMR
CHK'D BY	WJS

COPYRIGHT 2004  
MUSSETT, NICHOLAS AND ASSOC., INC.

SHEET TITLE  
MECHANICAL AND PLUMBING SCHEDULES



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



**GENERAL NOTES:**

- G1. RELOCATE PIPING AND CONDUIT TO ACCOMMODATE DUCT WORK.
- G2. SUPPLY DUCT IS TO BE INSULATED.

**KEYED HVAC NOTES:**

- ① DIFFUSER AND RETURN GRILLE TO INCLUDE HORIZONTAL RADIATION DAMPER U.L. LISTED.
- ② PLACE RETURN DUCT SUCH THAT IT DOES NOT INTERFERE WITH EXISTING JOISTS.
- ③ VERIFY DAMPER IS INTERLOCKED SUCH THAT AS THE FANS ARE ENERGIZED THE DAMPER WILL OPEN.
- ④ DUCT TERMINATES AT THE HALLWAY PLENUM.
- ⑤ DUCT TERMINATES AT THE ADJACENT ROOM PLENUM.
- ⑥ SPLIT DUCTWORK AS NECESSARY TO GO AROUND EXISTING JOISTS.
- ⑦ EXISTING DAMPER AND FAN TO REMAIN. VERIFY DAMPER IS INTERLOCKED ELECTRONICALLY INTERLOCKED TO OPEN WHEN FAN IS ENERGIZED.

**MUSSETT,  
 NICHOLAS &  
 ASSOCIATES**  
 PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
 INDIANAPOLIS, INDIANA  
 46202  
 phone:  
 (317) 631-9241  
 fax:  
 (317) 631-6619

Certified By

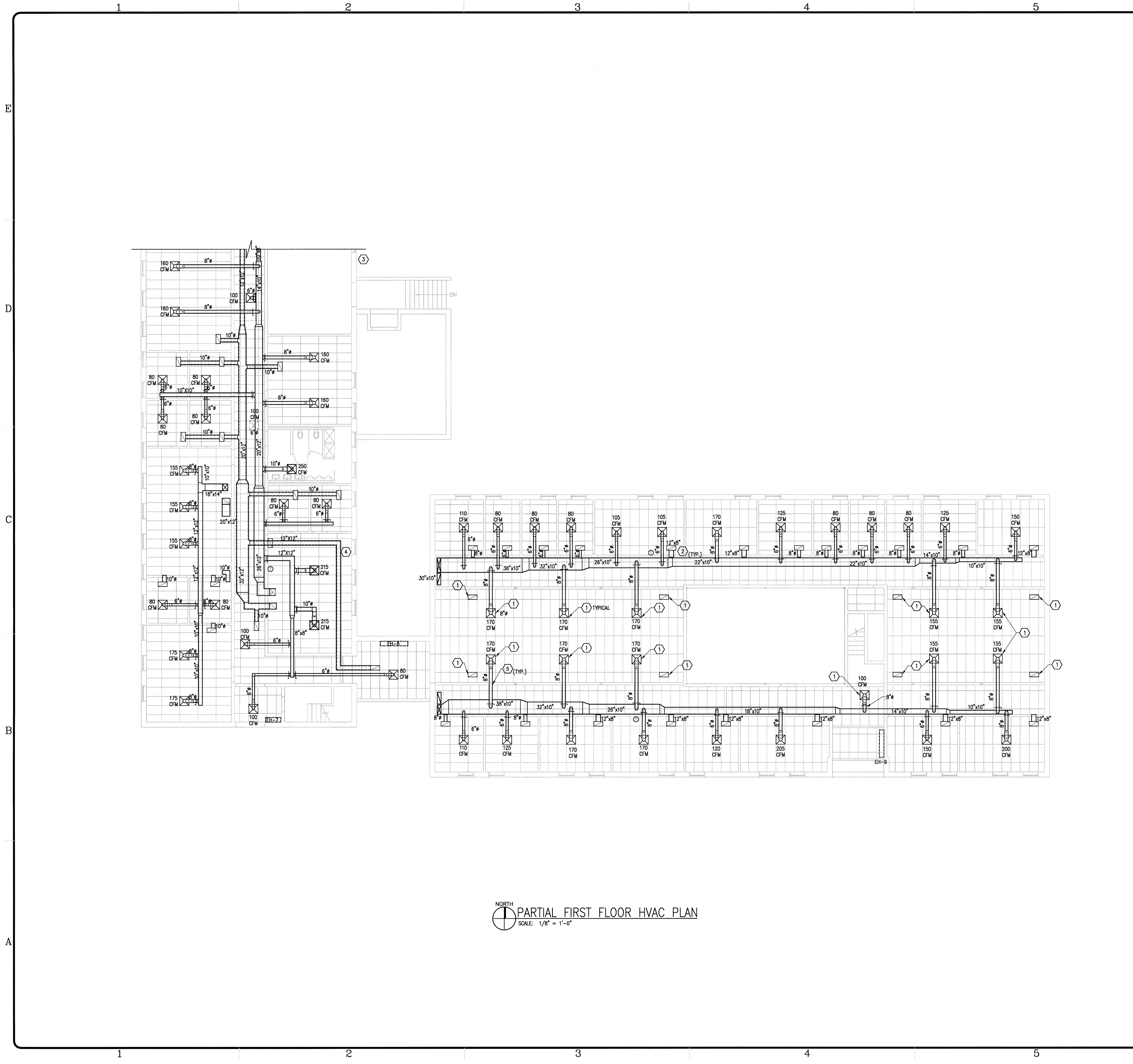
Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
REVISION BLOCK		

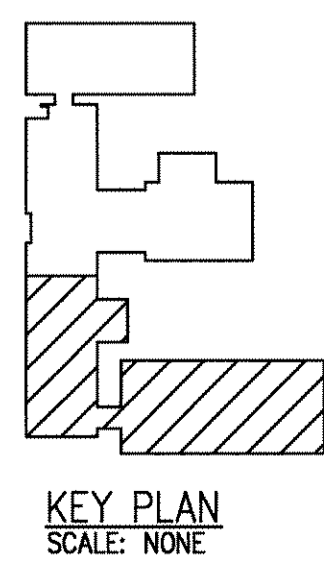
PROJECT NO:	2002218
DWG. FILE:	MH101.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL  
 FIRST FLOOR  
 HVAC PLAN**

**MH-101**  
 SHEET X OF X



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



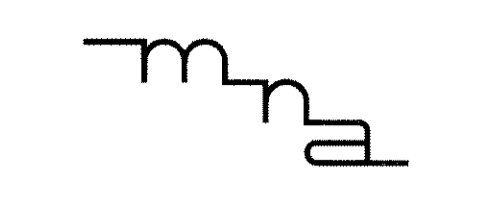
**GENERAL NOTES:**

- G1. RELOCATE PIPING AND CONDUIT TO ACCOMMODATE DUCT WORK.
- G2. SUPPLY DUCT IS TO BE INSULATED.

**KEYED HVAC NOTES:**

- ① DIFFUSER & RETURN GRILLE TO INCLUDE HORIZONTAL RADIATION DAMPERS U.L. LISTED.
- ② DUCT TERMINATES AT THE HALLWAY PLENUM.
- ③ EXISTING DAMPER ABOVE OUTSIDE DOOR IS TO BE SET IN THE FULL OPEN POSITION.
- ④ LOCATE THIS DUCT SUCH THAT IT DOES NOT INTERFERE WITH EXISTING JOISTS.
- ⑤ START FLEX DUCT BEFORE JOIST (TYPICAL).

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By

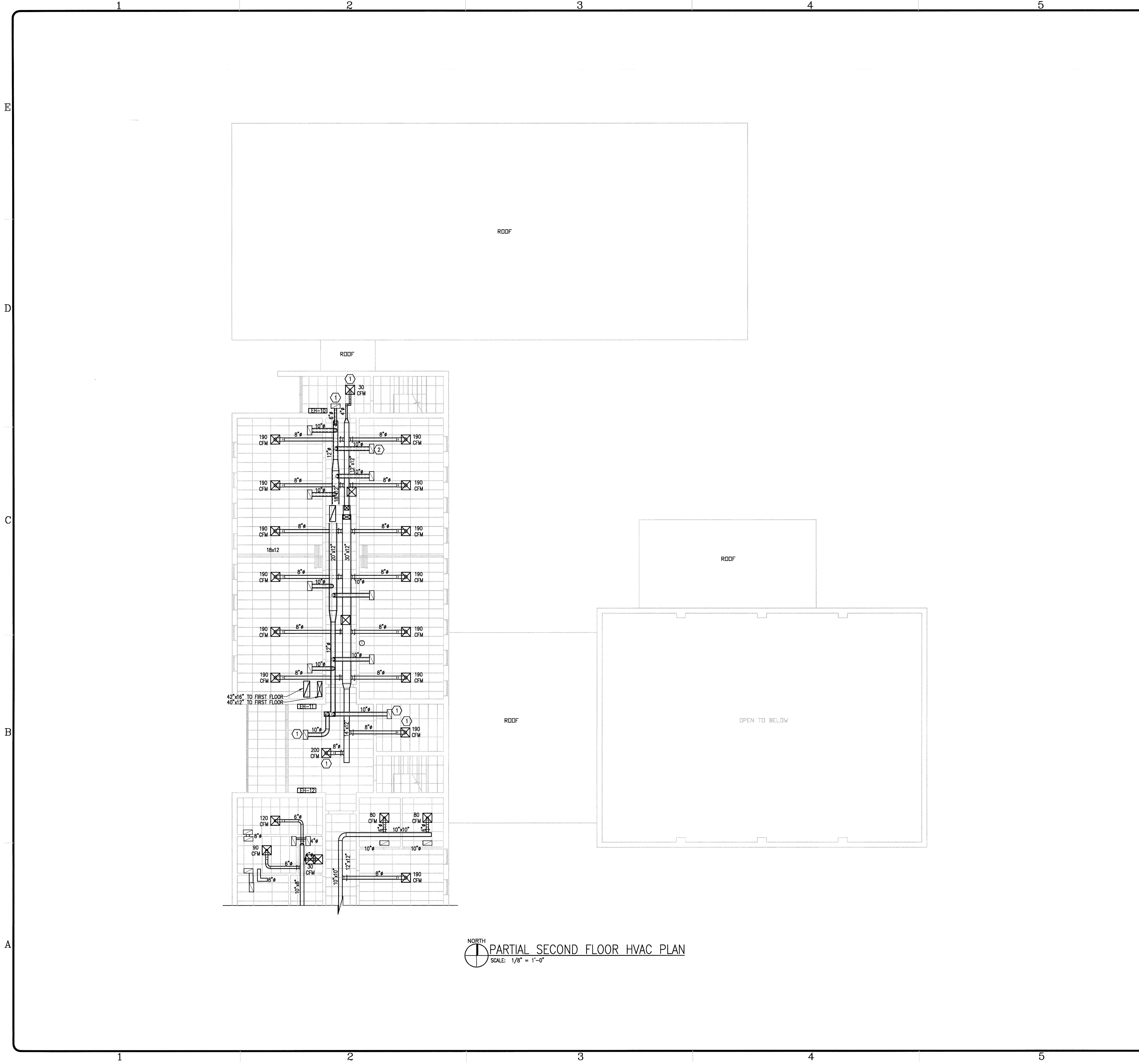
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO:	2002218
DWG. FILE:	MH102.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002	MUSSETT, NICHOLAS AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
FIRST FLOOR  
HVAC PLAN

MH-102  
SHEET X OF X



NORTH  
PARTIAL SECOND FLOOR HVAC PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- G1. RELOCATE PIPING AND CONDUIT TO ACCOMMODATE DUCTWORK.
- G2. SUPPLY DUCT IS TO BE INSULATED.

**KEYED HVAC NOTES:**

- ① DIFFUSER AND RETURN GRILLED TO INCLUDE HORIZONTAL RADIATION DAMPER UL LISTED.
- ② PLACE RETURN DUCT SUCH THAT IT DOES NOT INTERFERE WITH EXISTING JOISTS.

**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

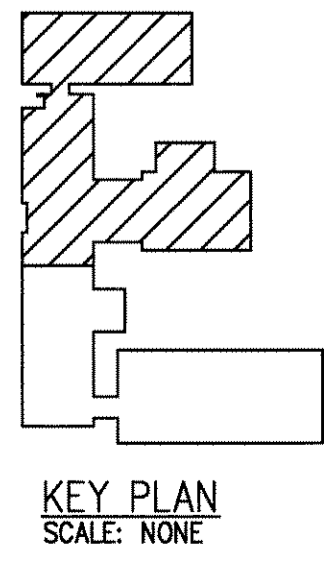
Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

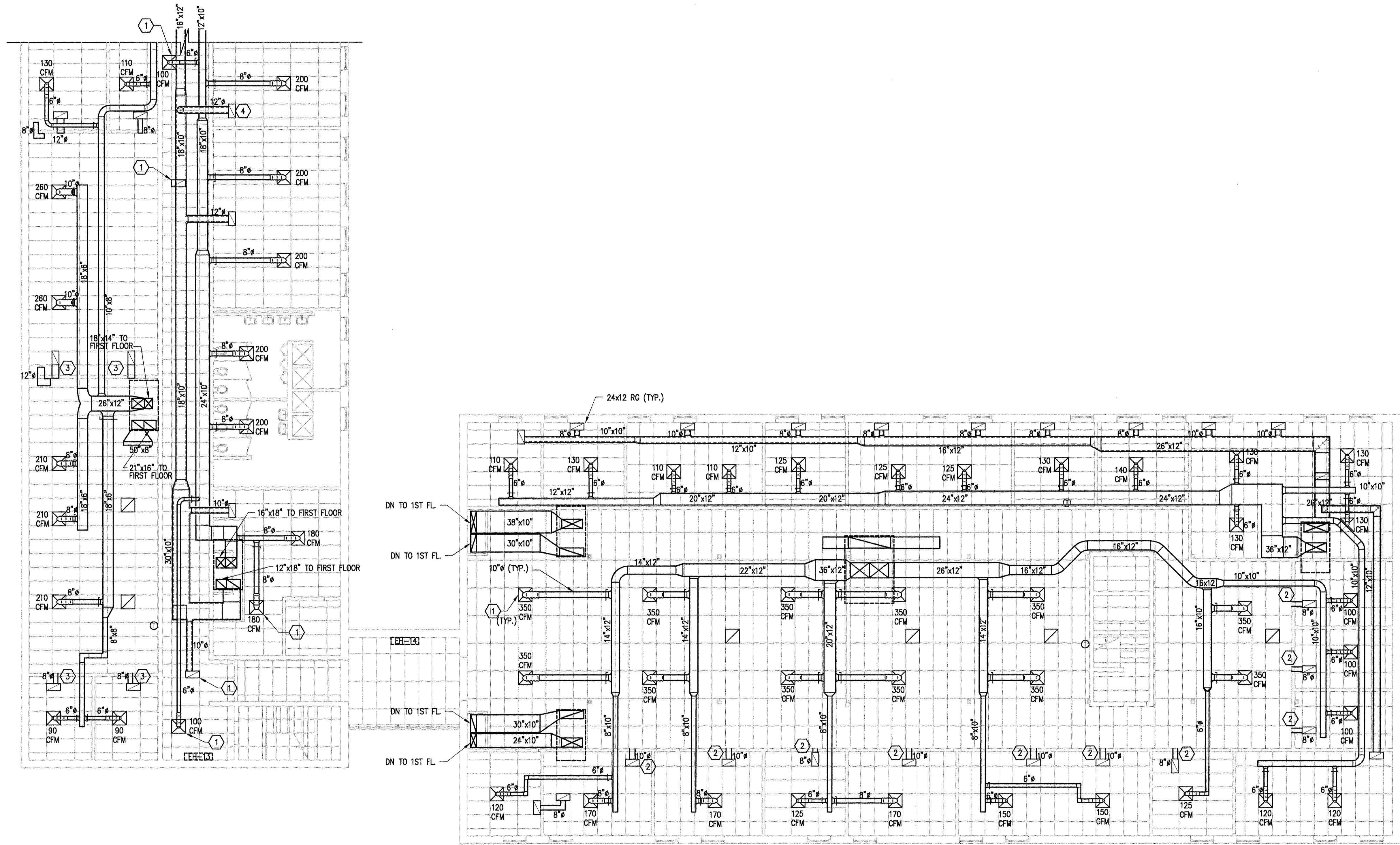
MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO:	2002218
DWG. FILE:	MH103.dwg
DRAWN BY:	PLR
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

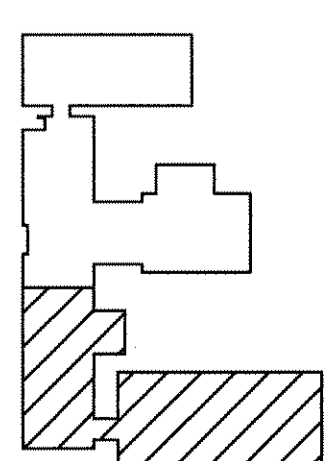
SHEET TITLE  
**PARTIAL  
SECOND FLOOR  
HVAC PLAN**

**MH-103**  
SHEET X OF X





NORTH  
PARTIAL SECOND FLOOR HVAC PLAN  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NONE

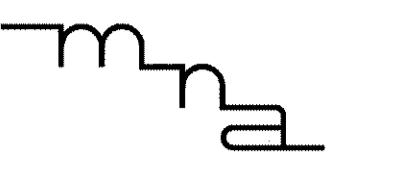
**GENERAL NOTES:**

- G1. RELOCATE PIPES AND CONDUIT TO ACCOMMODATE DUCTWORK.
- G2. SUPPLY DUCT IS TO BE INSULATED.

**KEYED HVAC NOTES:**

- (1) DIFFUSER AND RETURN GRILLE TO INCLUDE HORIZONTAL RADIATION DAMPER UL LISTED.
- (2) DUCT TERMINATES AT THE HALLWAY PLENUM.
- (3) DUCT TERMINATES AT THE ADJACENT ROOM PLENUM.
- (4) PLACE RETURN DUCT SUCH THAT IT DOES NOT INTERFERE WITH EXISTING JOISTS.

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By

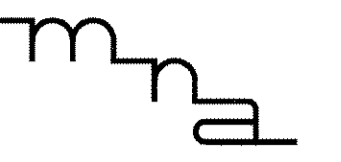
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO:	2002218
DWG. FILE:	MH104.dwg
DRAWN BY:	DPS
CHKD BY:	WJS
COPYRIGHT 2002	
MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL  
SECOND FLOOR  
HVAC PLAN**

**MH-104**  
SHEET X OF X



Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION

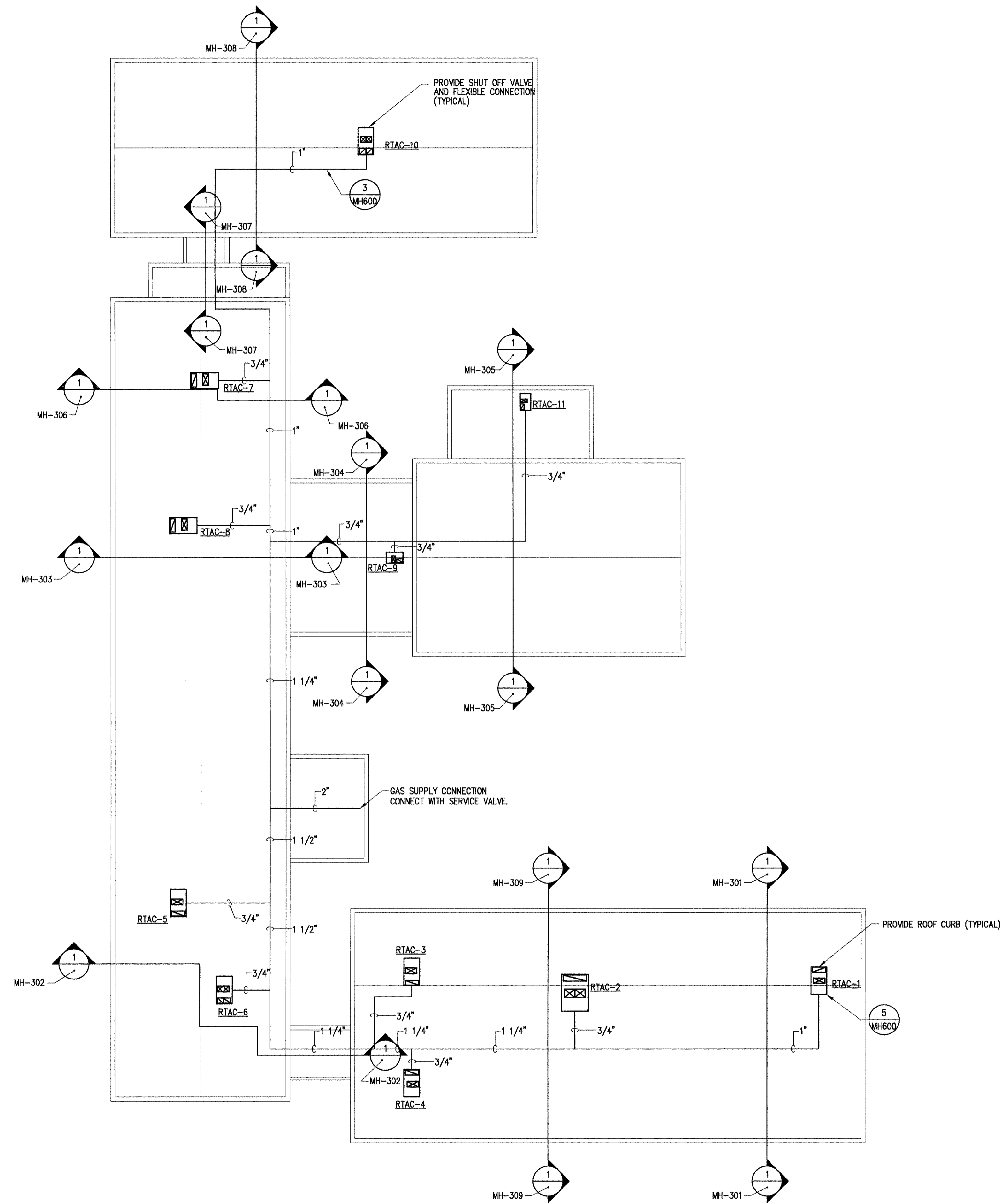
PROJECT NO:	2002218
DWG. FILE:	MH105.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT	2002
MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE

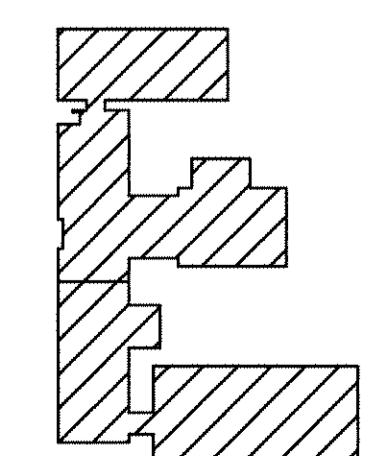
ROOF  
HVAC PLAN

MH-105

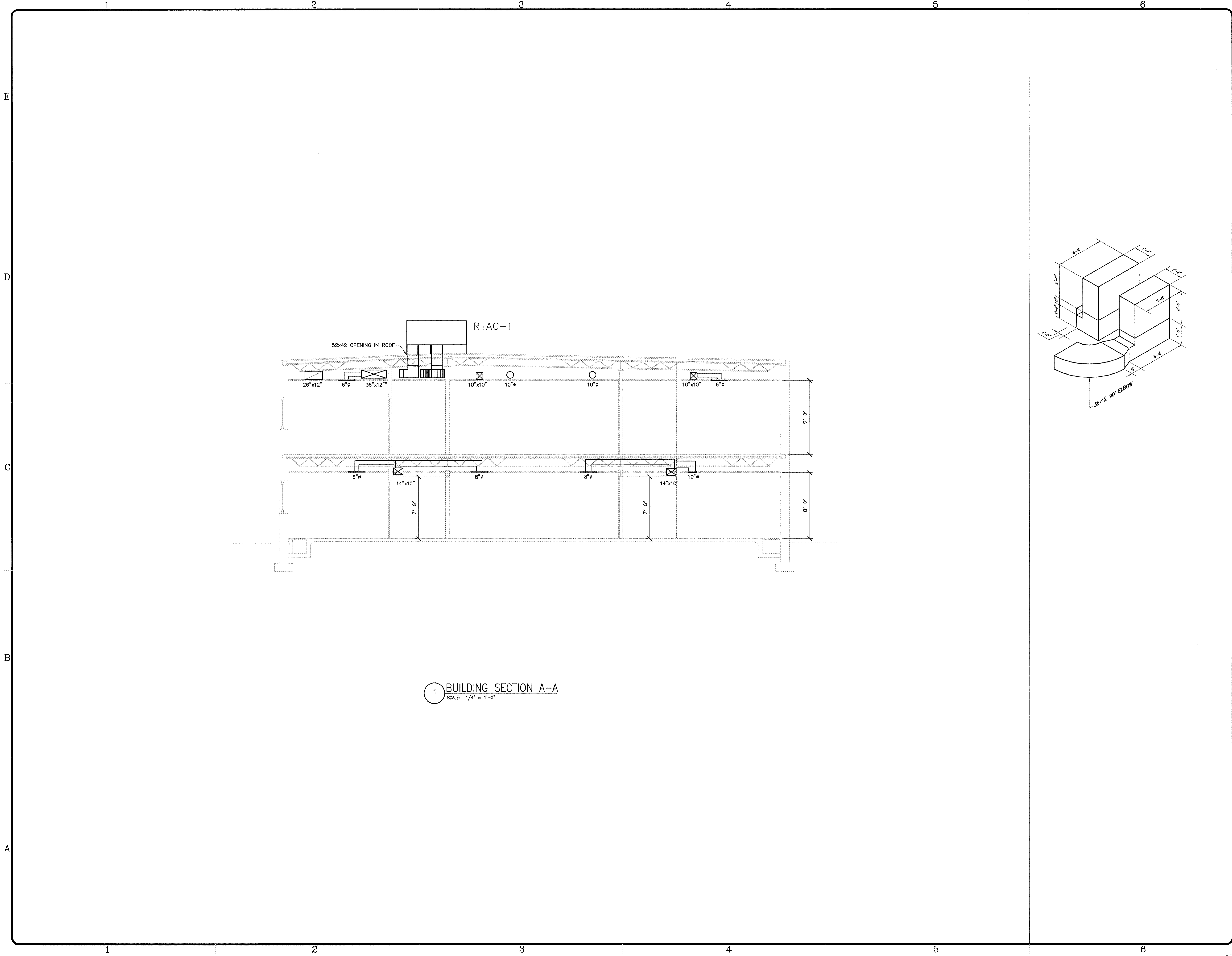
SHEET X OF X



NORTH  
ROOF HVAC AND GAS PIPING PLAN  
SCALE: 1/16" = 1'-0"



KEY PLAN  
SCALE: NONE



1 BUILDING SECTION A-A  
SCALE: 1/4" = 1'-0"

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS

*mna*

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

\_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

\_\_\_\_\_

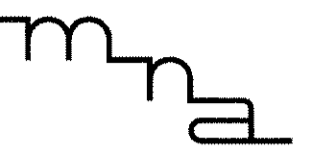
MARK	DATE	DESCRIPTION

PROJECT NO: 2002218  
DWS. FILE: MH301.dwg  
DRAWN BY: DPS  
CHKD BY: WJS  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
BUILDING  
SECTION

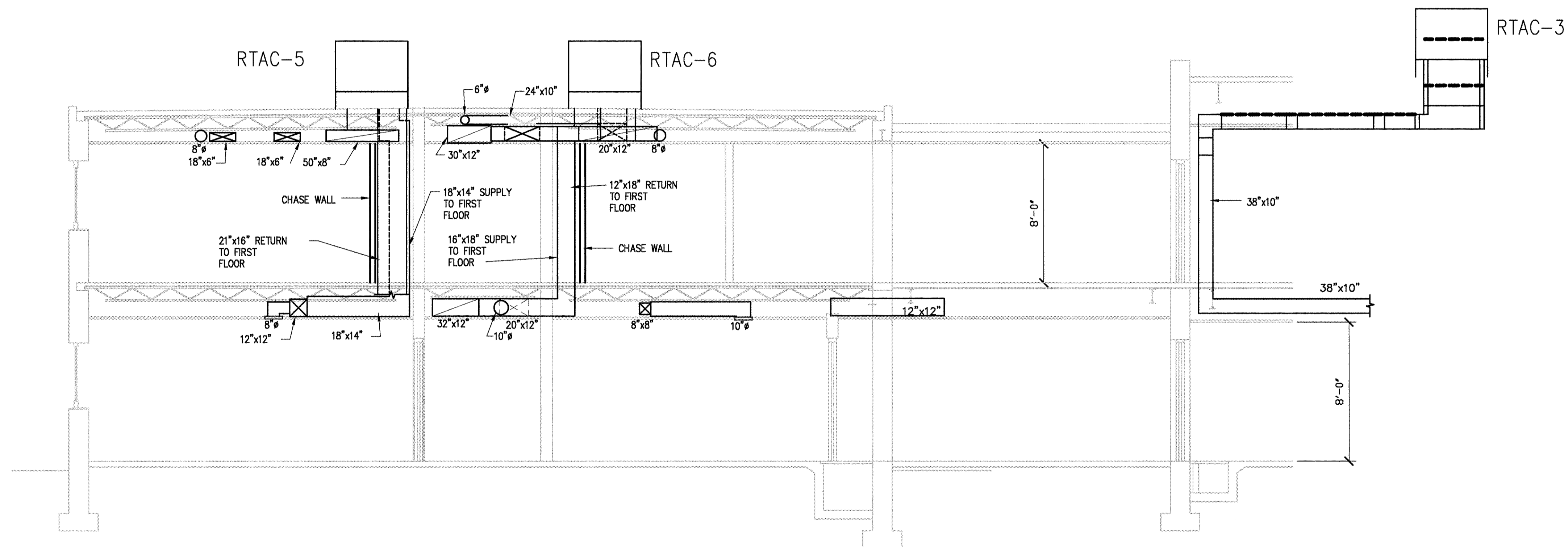
MH-301  
SHEET X OF X



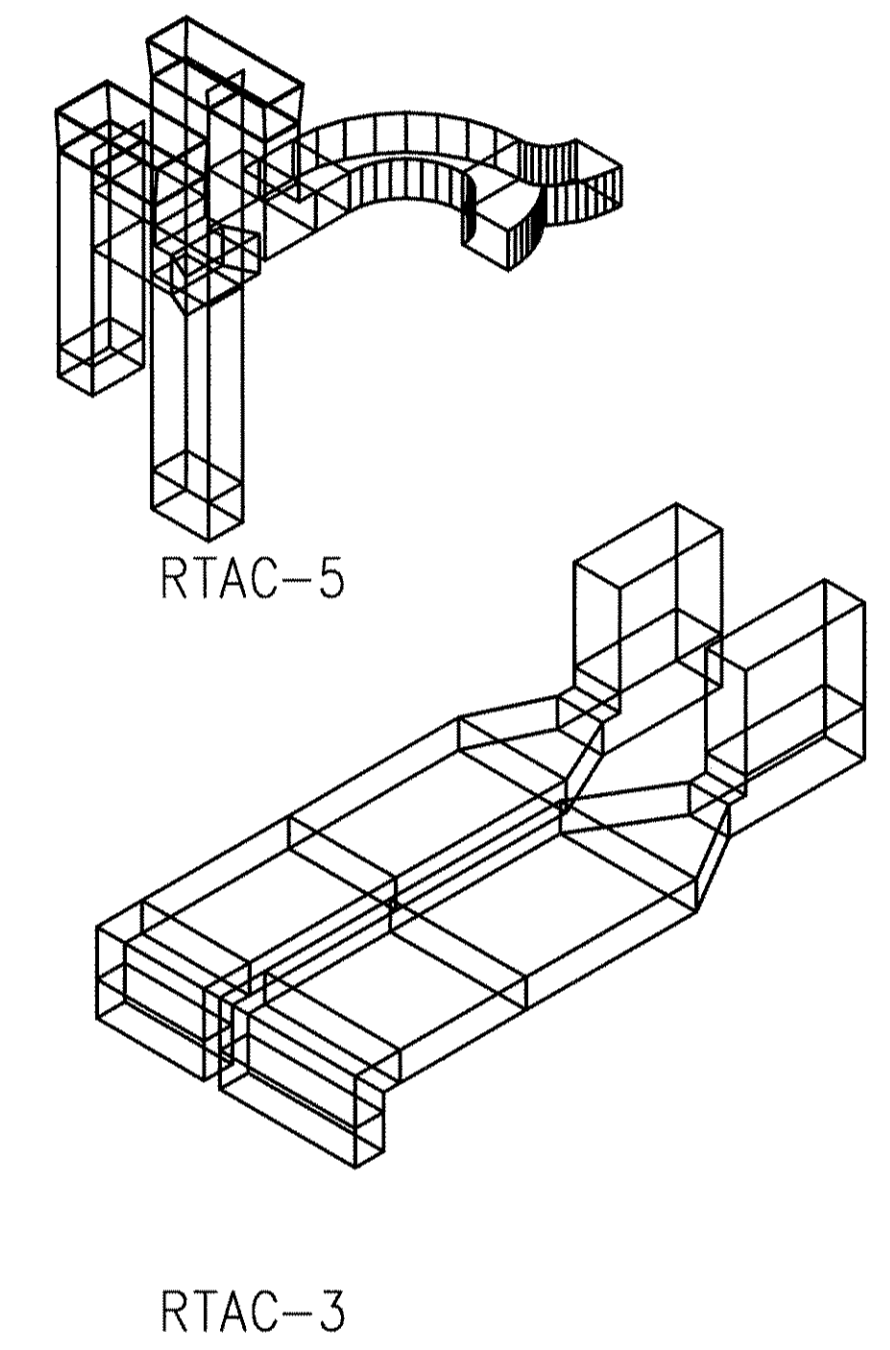


Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN



1 BUILDING SECTION B-B  
SCALE: 1/4" = 1'-0"

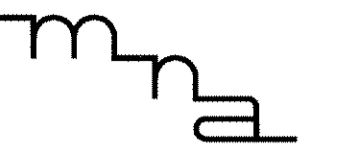


MARK	DATE	DESCRIPTION

PROJECT NO:	2002218
DWG. FILE:	MH302.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

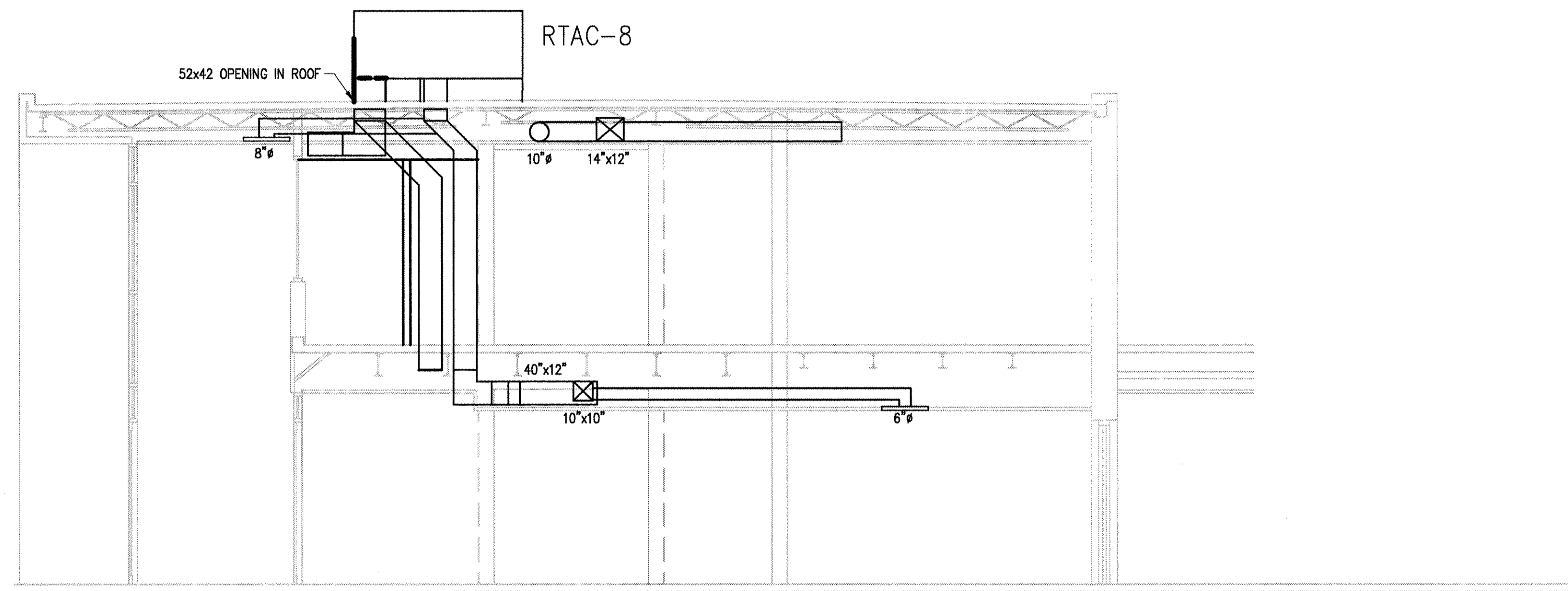
SHEET TITLE  
**PARTIAL  
BUILDING  
SECTION**

**MH-302**  
SHEET X OF X

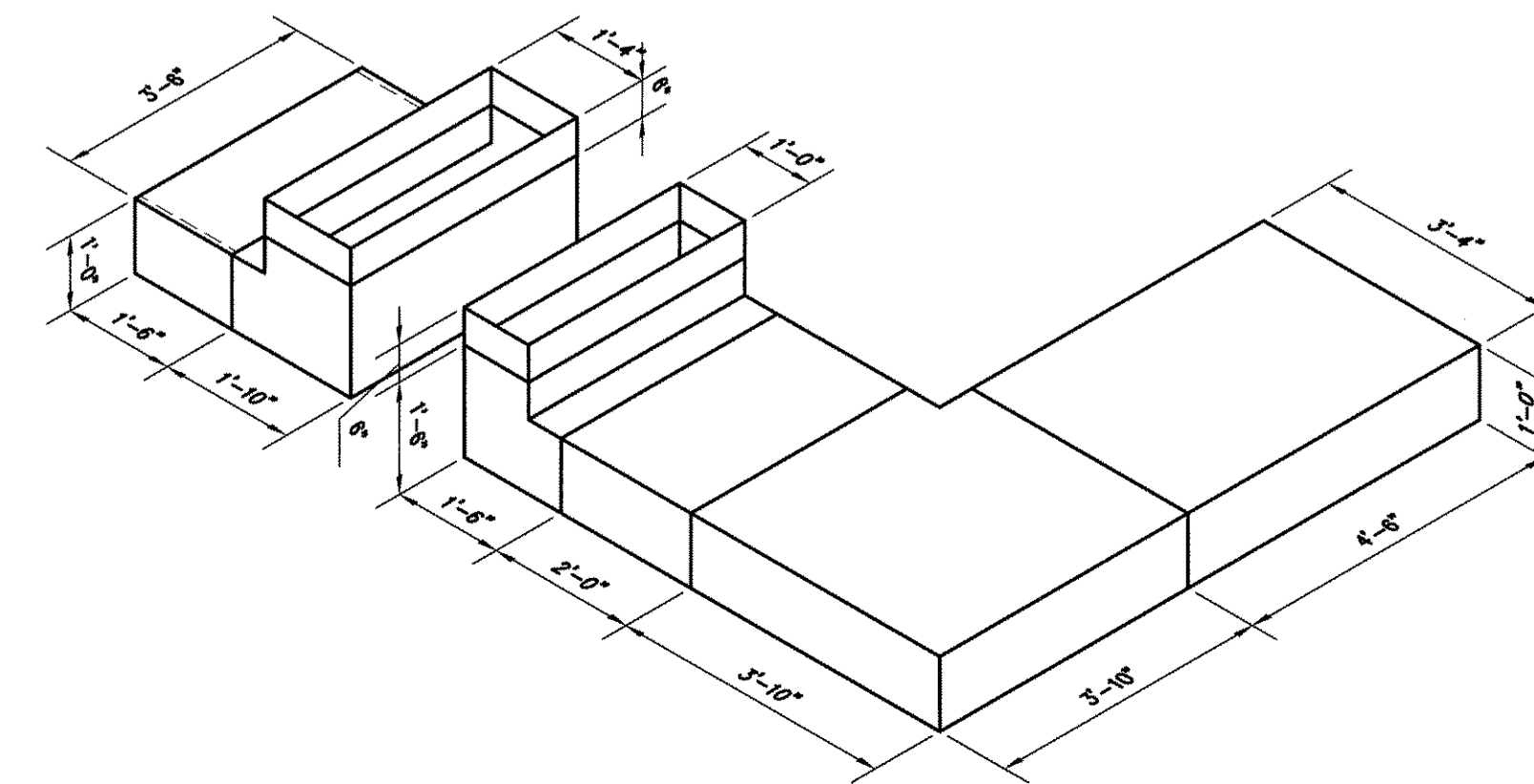


Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN



1 BUILDING SECTION C-C  
SCALE: 1/4" = 1'-0"



MARK	DATE	DESCRIPTION
REVISION BLOCK		

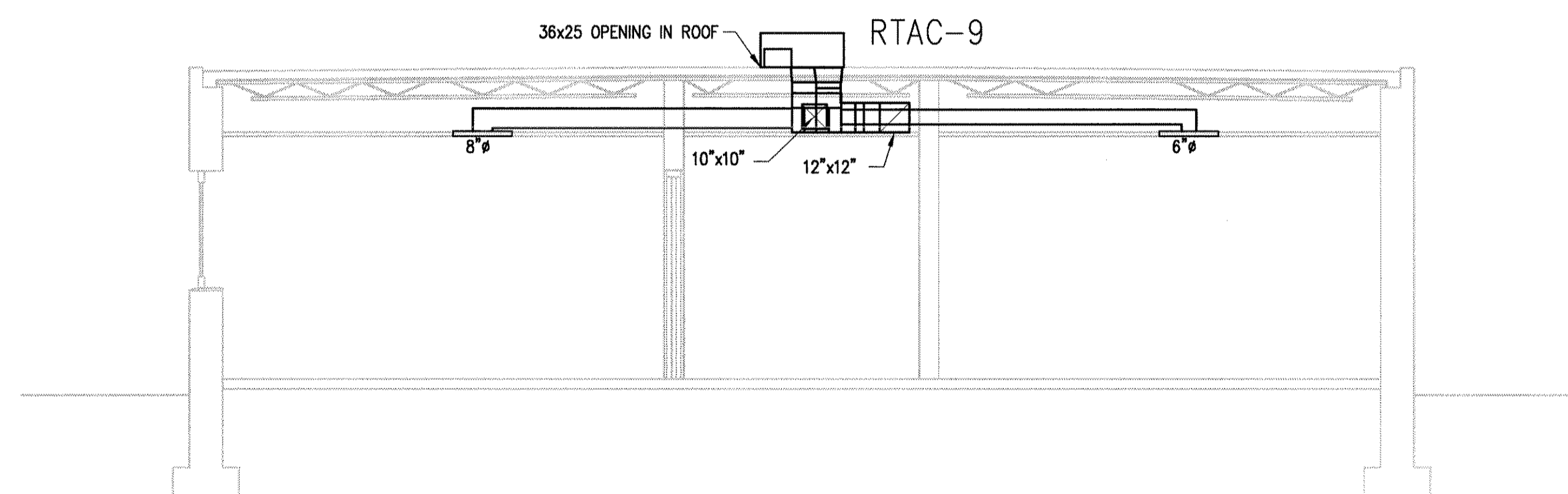
PROJECT NO:	2002218
DWG. FILE:	MH303.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL  
BUILDING  
SECTION**

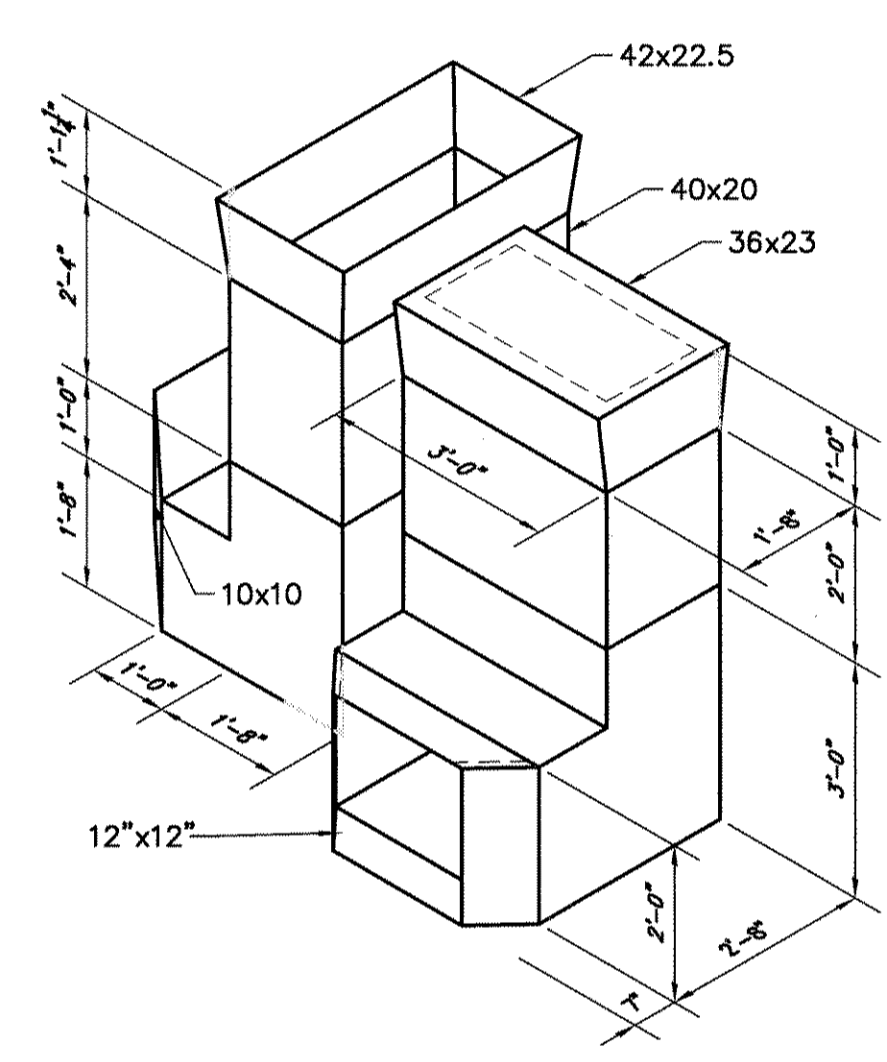
**MH-303**  
SHEET X OF X

E  
D  
C  
B  
A

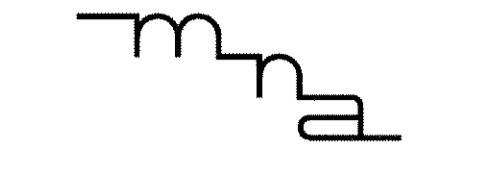
1 2 3 4 5 6



1 BUILDING SECTION D-D  
SCALE: 1/4" = 1'-0"



MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone: (317) 631-9241  
fax: (317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

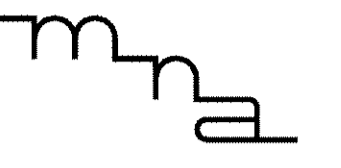
MARK	DATE	DESCRIPTION

PROJECT NO: 2002218  
DWG. FILE: MH304.dwg  
DRAWN BY: DPS  
CHK'D BY: WJS  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
BUILDING  
SECTION

MH-304  
SHEET X OF X

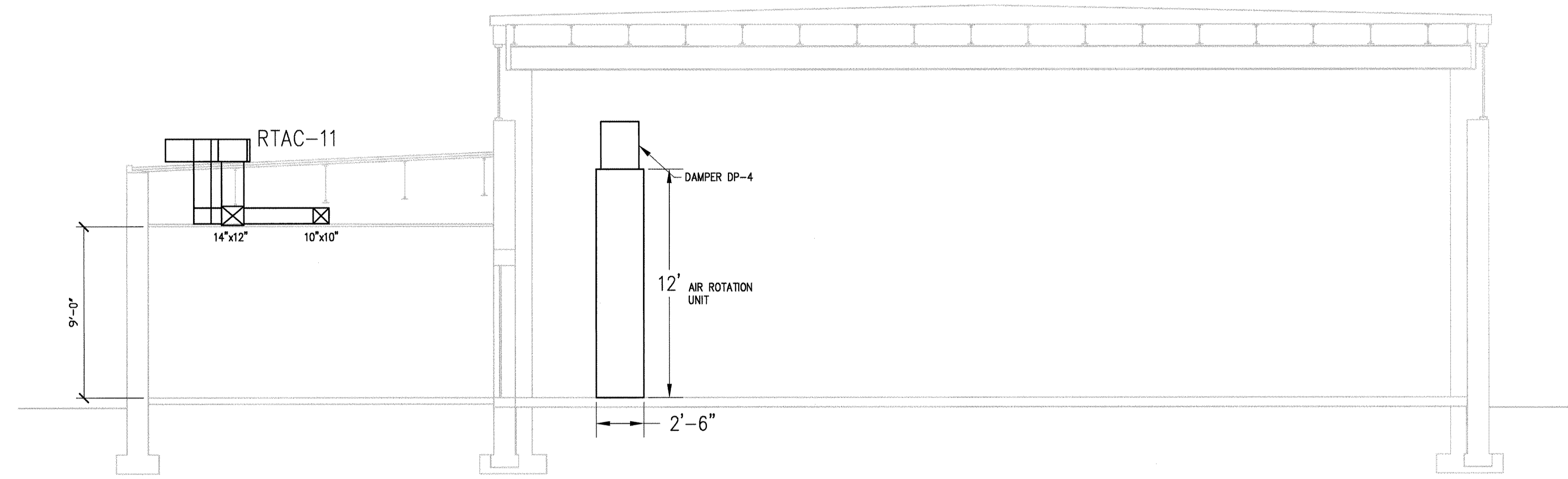
MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN



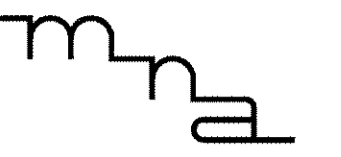
1 BUILDING SECTION E-E  
SCALE: 1/4" = 1'-0"

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO: 2002218  
 DWG. FILE: MH305.dwg  
 DRAWN BY: DPS  
 CHKD BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

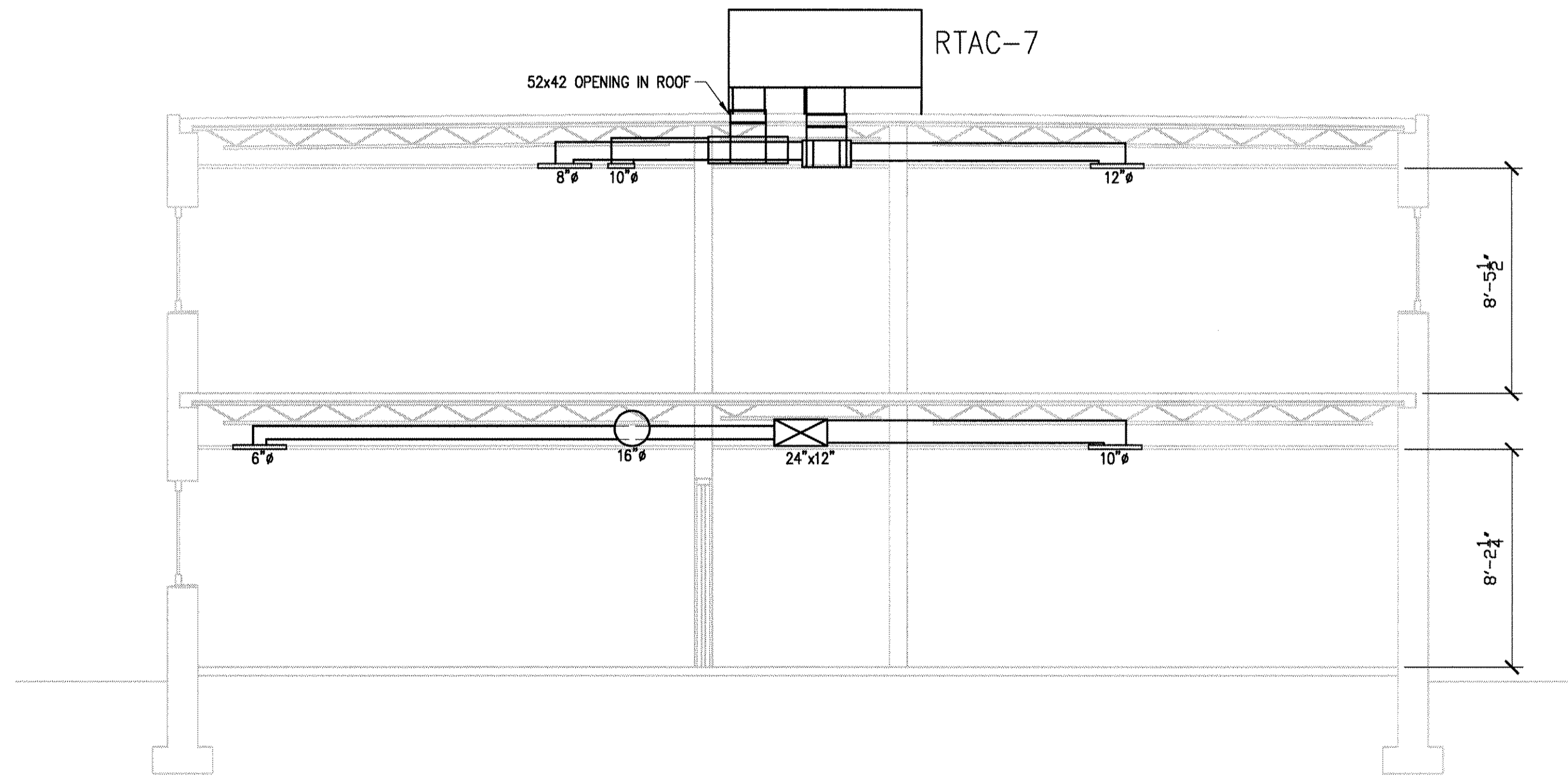
SHEET TITLE  
 PARTIAL  
 BUILDING  
 SECTION

MH-305  
 SHEET X OF X

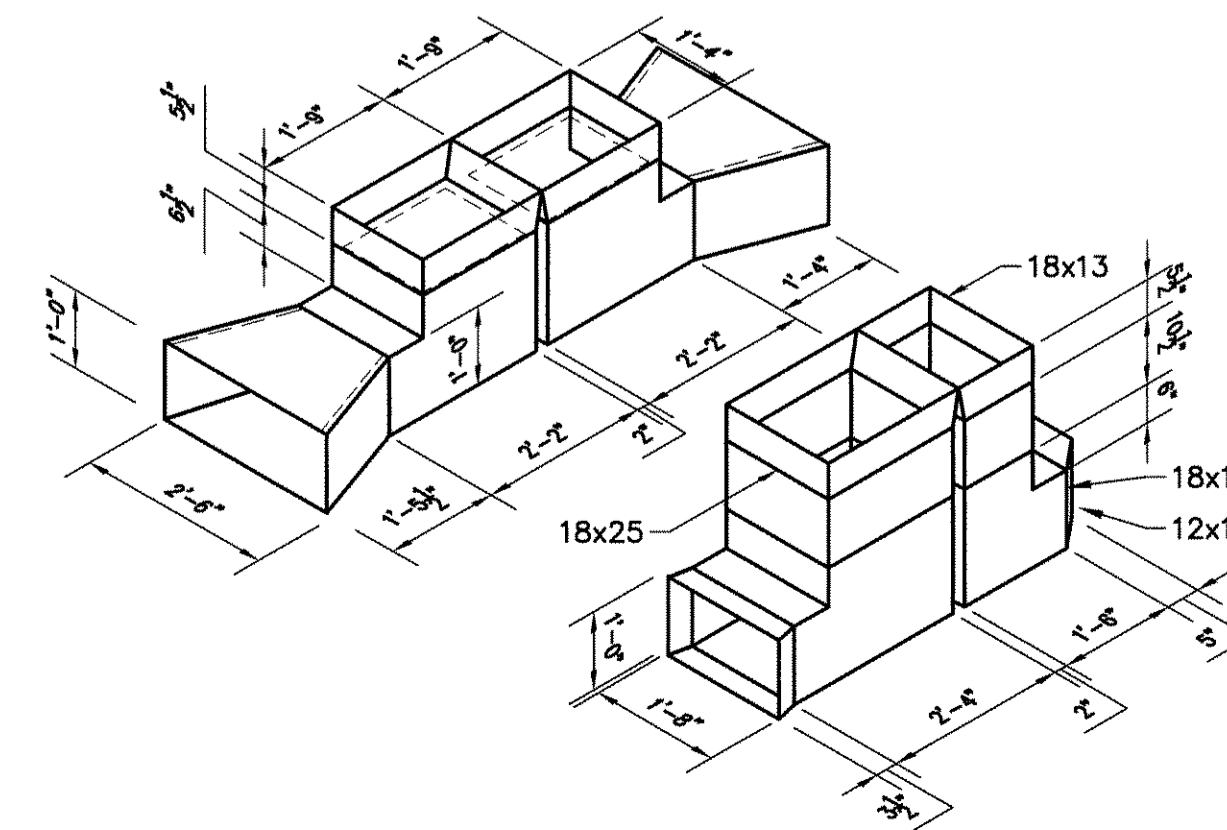


Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN



1 BUILDING SECTION F-F  
SCALE: 1/4" = 1'-0"



MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

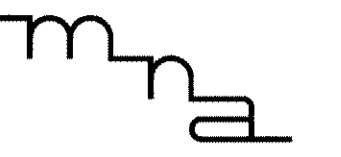
PROJECT NO:	2002218
DWG. FILE:	MH306.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL  
BUILDING  
SECTION**

**MH-306**

SHEET X OF X

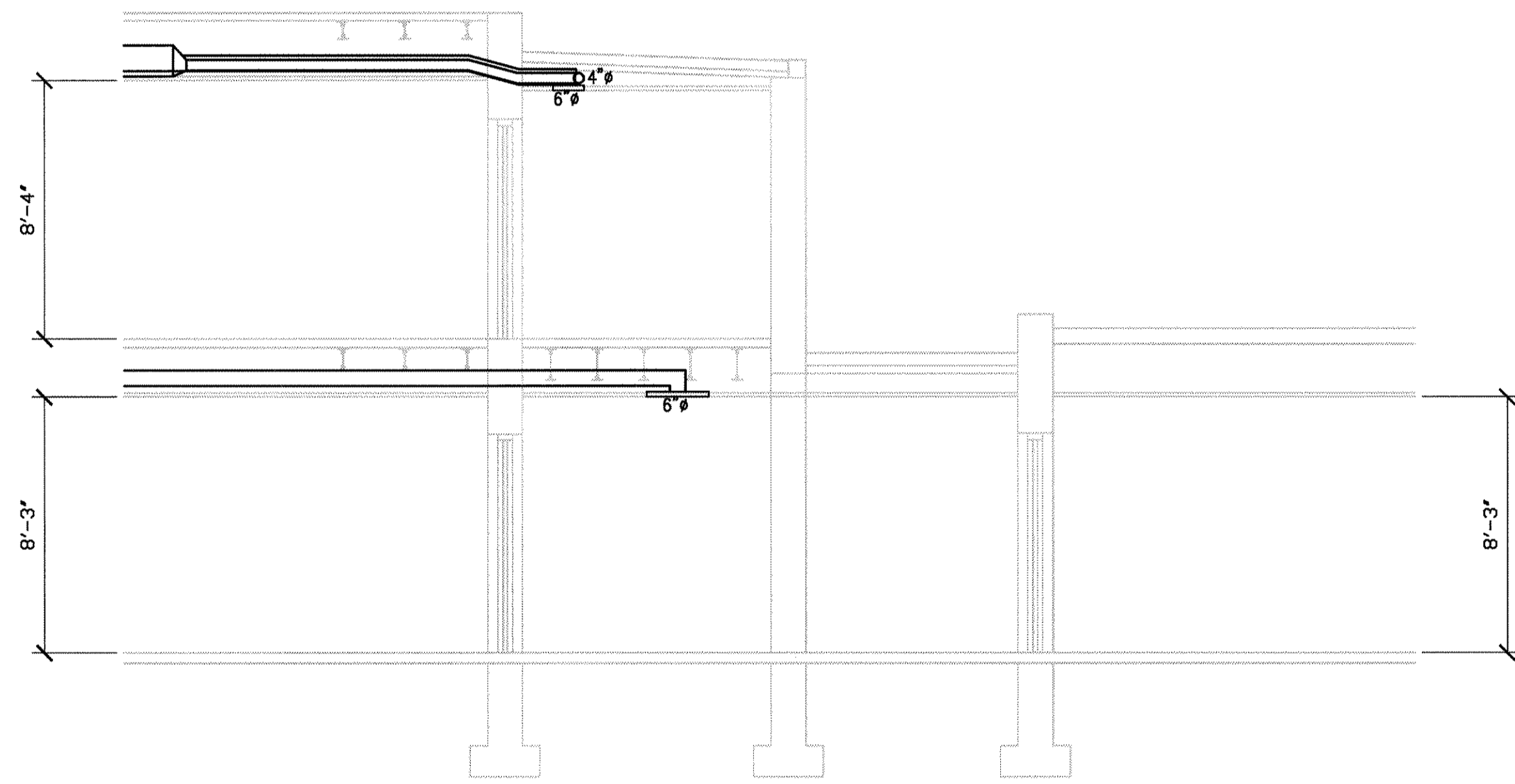
MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN



1 BUILDING SECTION G-G  
SCALE: 1/4" = 1'-0"

MARK	DATE	DESCRIPTION

PROJECT NO: 2002218  
DWG. FILE: MH307.dwg  
DRAWN BY: DPS  
CHK'D BY: WJS  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

PARTIAL  
BUILDING  
SECTION

MH-307  
SHEET X OF X

IN 016-0022 16 of 30

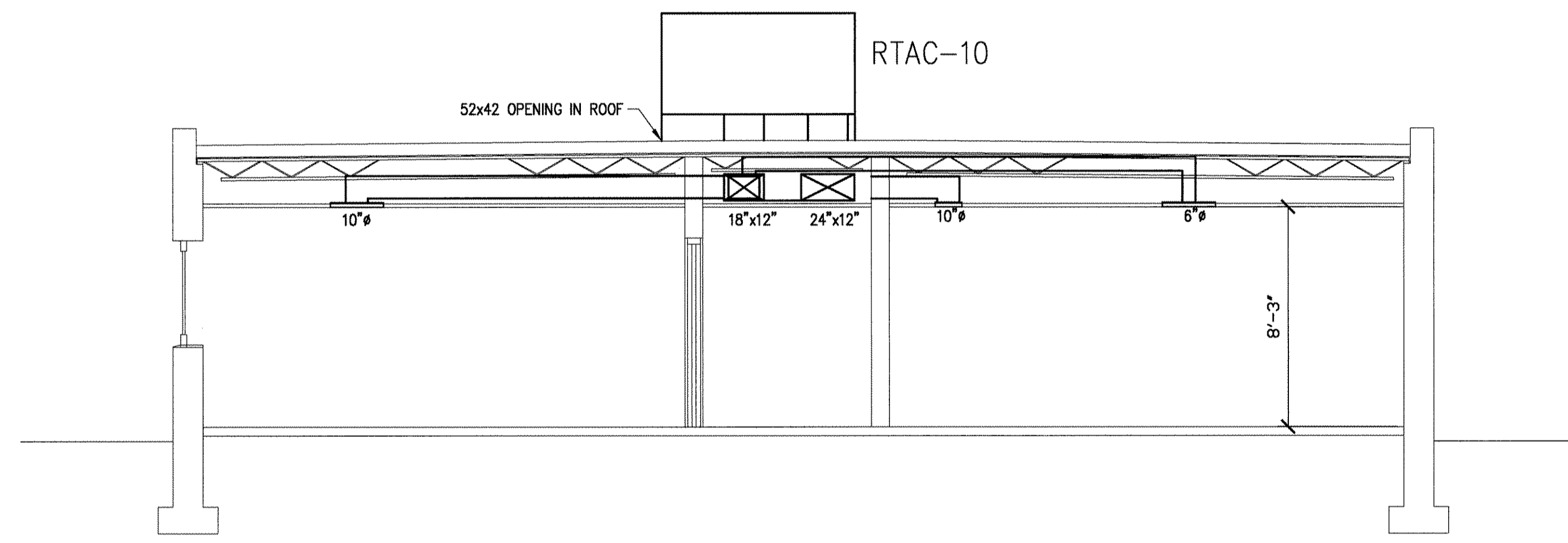
MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS



422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN



1 BUILDING SECTION H-H  
SCALE: 1/4" = 1'-0"

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

PROJECT NO: 2002218  
DWG. FILE: MH308.dwg  
DRAWN BY: DPS  
CHK'D BY: WJS  
COPYRIGHT 2002  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
PARTIAL  
BUILDING  
SECTION

MH-308  
SHEET X OF X



Certified By \_\_\_\_\_

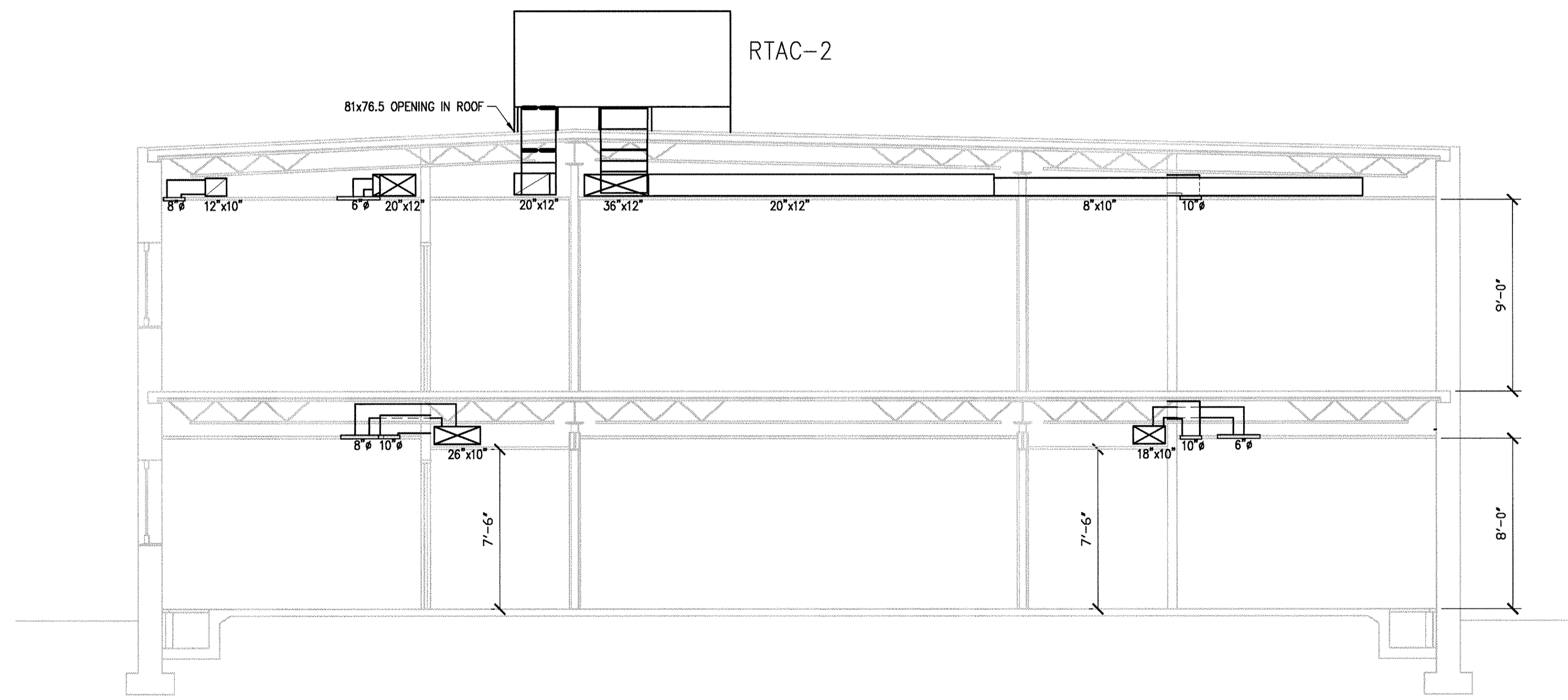
Renovations to  
 U.S.A.R.C.  
 Kessler Blvd.  
 Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

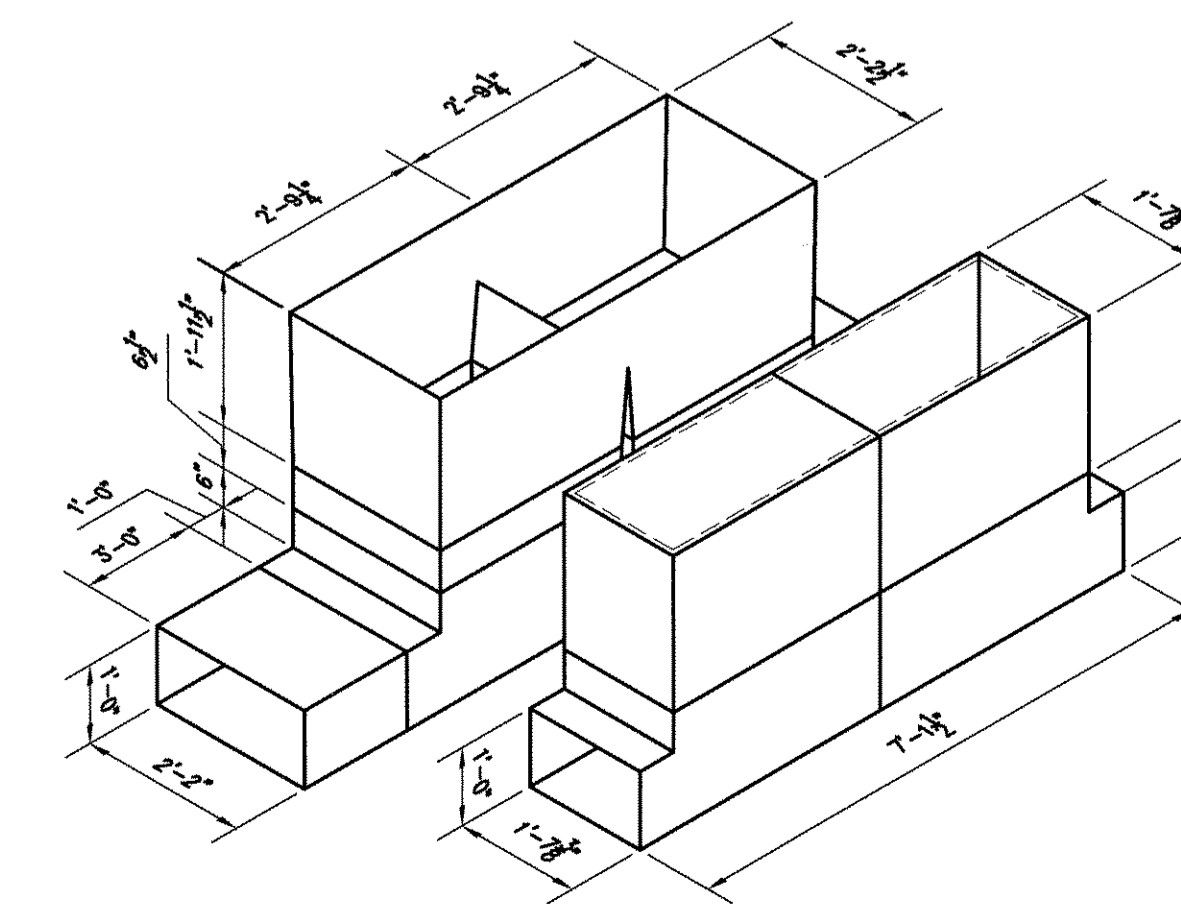
PROJECT NO:	2002218
DWG. FILE:	MH301.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002 MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
**PARTIAL  
BUILDING  
SECTION**

**MH-309**  
SHEET X OF X



1 BUILDING SECTION A-A  
SCALE: 1/4" = 1'-0"





ROOFTOP UNITS (GAS HEATED/ELECTRIC COOLED)							
MARK NO.	RTAC-1, RTAC-3, RTAC-4	RTAC-2	RTAC-5, RTAC-6, RTAC-10	RTAC-7, RTAC-8	RTAC-9	RTAC-11	
SERVICE	ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP	
LOCATION	TRANE YC075C3	TRANE YC210C3	TRANE YC120C3	TRANE YC090D3	TRANE YC030F10B	TRANE YC018F10B	
MODEL	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208-230/1/60	208-230/1/60	
VOLTZ/HERTZ/PHASES							
BTUH	75000	210000	101000	90000	29200	18000	
INDOOR AIRFLOW (CFM)	2500	7000	3400	3000	1000	600	
INPUT BTUH	120000	175000	135000	120000	50000	50000	
TEMP. RISE °F (MIN/MAX)	30/75	30/75	30/75	30/75	30/60	30/60	
TYPE OF GAS	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	
NO. USED	1	2	2	2	1	1	
VOLTZ/HERTZ/PHASES	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3	208/60/1	208/60/1	
TYPE	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	
ROWS	1/24	3/16	2/16	2/16	2/15	2/15	
FACE AREA	7.00	27.12	16.03	14.00	5.43	4.5	
TUBE SIZE	3/8	.375	.375	.375	3/8	2/8	
TYPE	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER	3	
NO. USED	1/24	2/26	1/26	1/24	1/18	1/18	
HP	1/2	2/1.0	1/1.0	1/50	1/2	1/2	
RPM	1075	1125	1125	1075	1080	1080	
VOLTZ/PHASE/HERTZ	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208/1/60	208/1/60	
F.L. AMPS	3.4	3.4	5.5	3.4			
DRIVE	BELT	BELT	BELT	BELT	DIRECT	DIRECT	
HP	1.0	5.0	2.0	1.0	1/25	1/25	
VOLTZ/HERTZ/PHASES	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	208/1/60	208/1/60	
F.L. AMPS	5.9	16.7	7.5	5.9			
TYPE	R-22	R-22	R-22	R-22	R-22	R-22	
LBS	9.1	21.0	7.1/CIRCUIT	6.3	4.4	3.8	
GAS PIPE SIZE	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
SHIPPING WEIGHT							
GAS PRESSURE							
ECONOMIZER OPTION	YES	YES	YES	YES	YES	YES	
UNIT AMPACITY					13.2	13.2	
MAX FUSE							
OPTIONS:	PROGRAMMABLE THERMOSTAT	PROGRAMMABLE THERMOSTAT	PROGRAMMABLE THERMOSTAT	PROGRAMMABLE THERMOSTAT	PROGRAMMABLE THERMOSTAT	PROGRAMMABLE THERMOSTAT	

WALL HEATERS		
MARK NO.	EH-2, EH-4, EH-5, EH-9, EH-10	EH-1, EH-3, EH-7, EH-8, EH-11, EH-12
NAME		
MANUFACTURER/MODEL	TRANE	TRANE
LOCATION	ENTRANCES	ENTRANCES
SERVICE		
VOLTZ @ 60HZ	208	208
PHASE	1	1
WATTS	3000	2000
AMPS	10.8	8.2/4.2
SHIPPING WEIGHT	22 LBS	13 lbs
BTUH	10,287	6,826/3,413
OPTIONS		

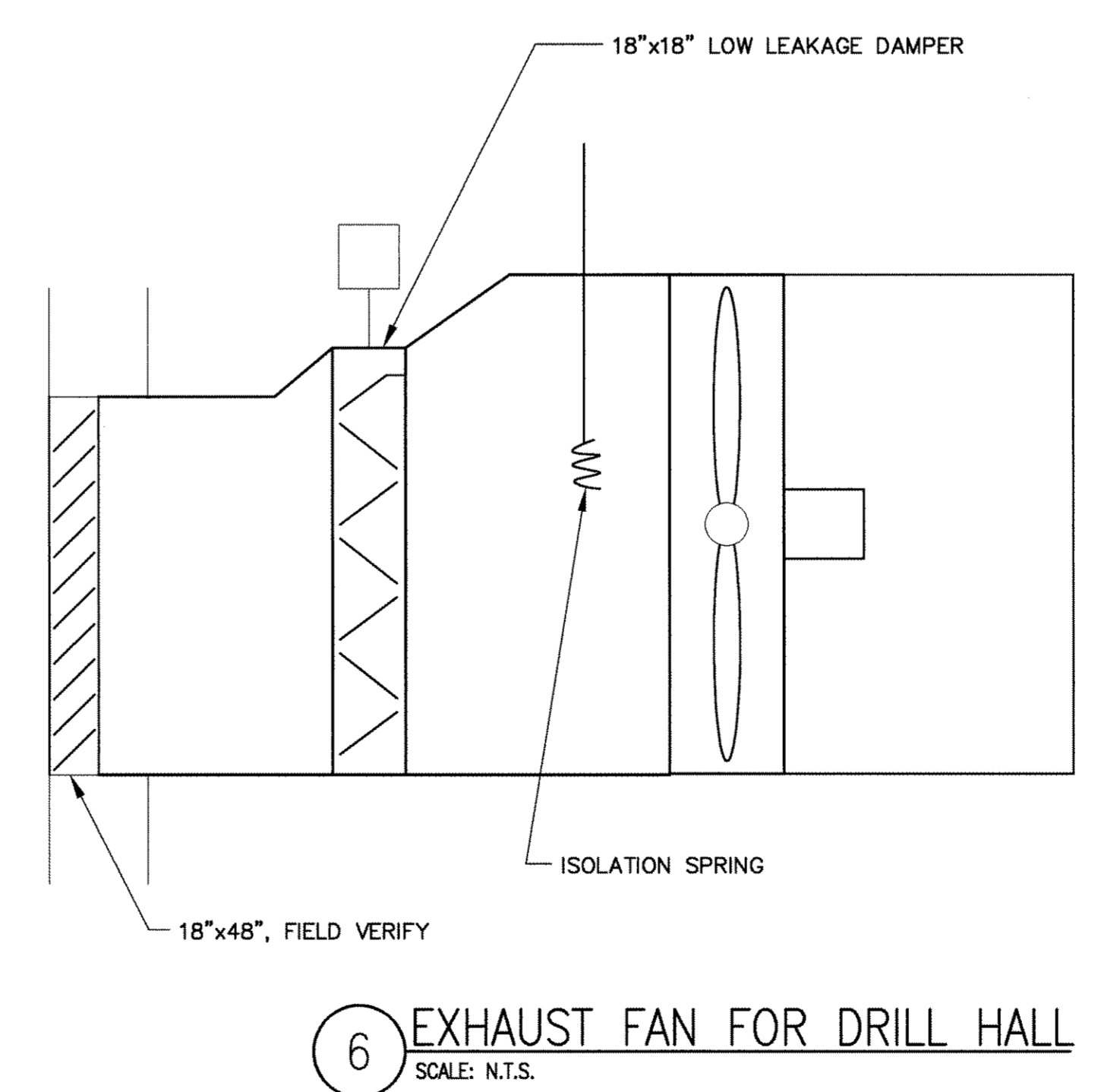
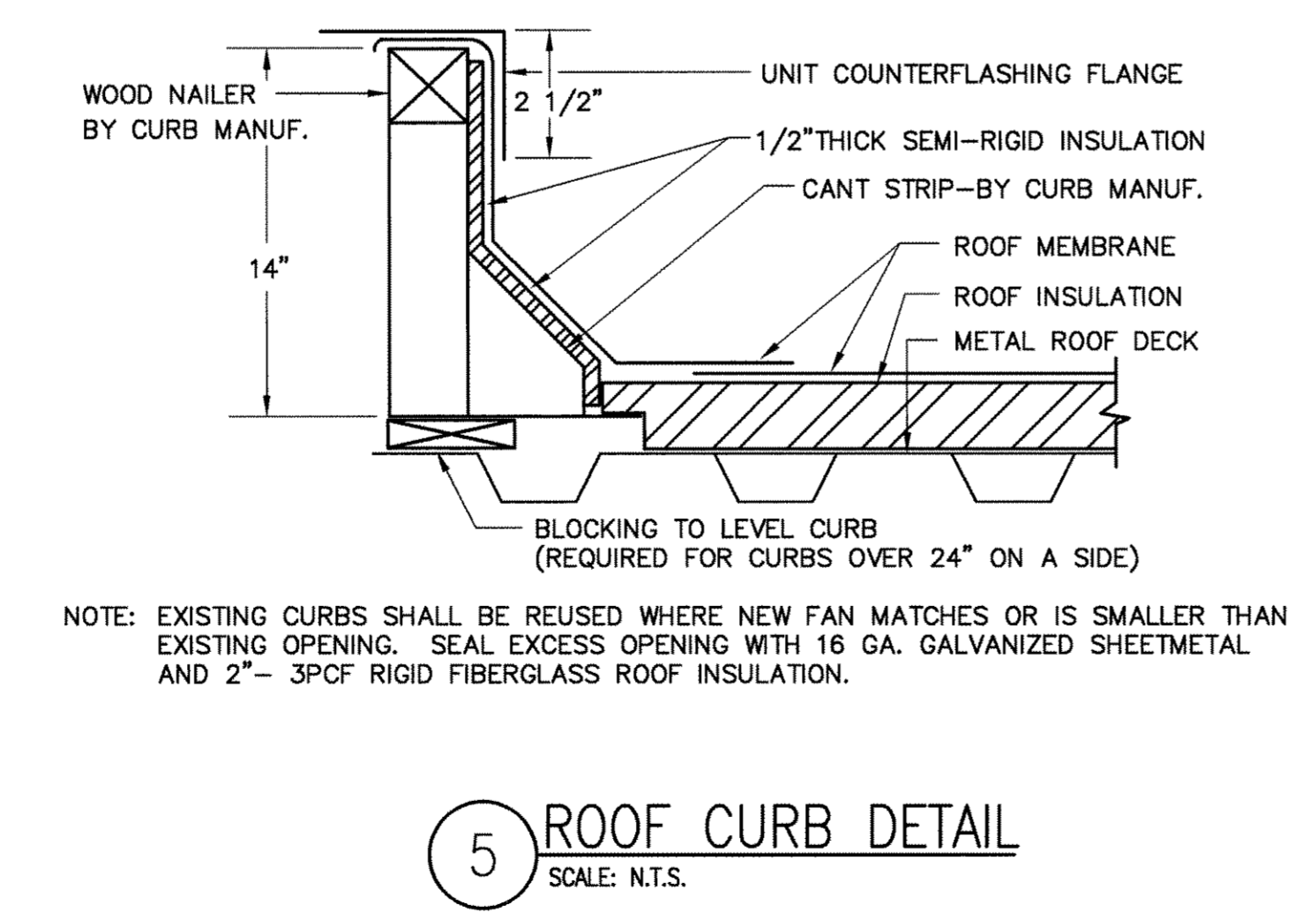
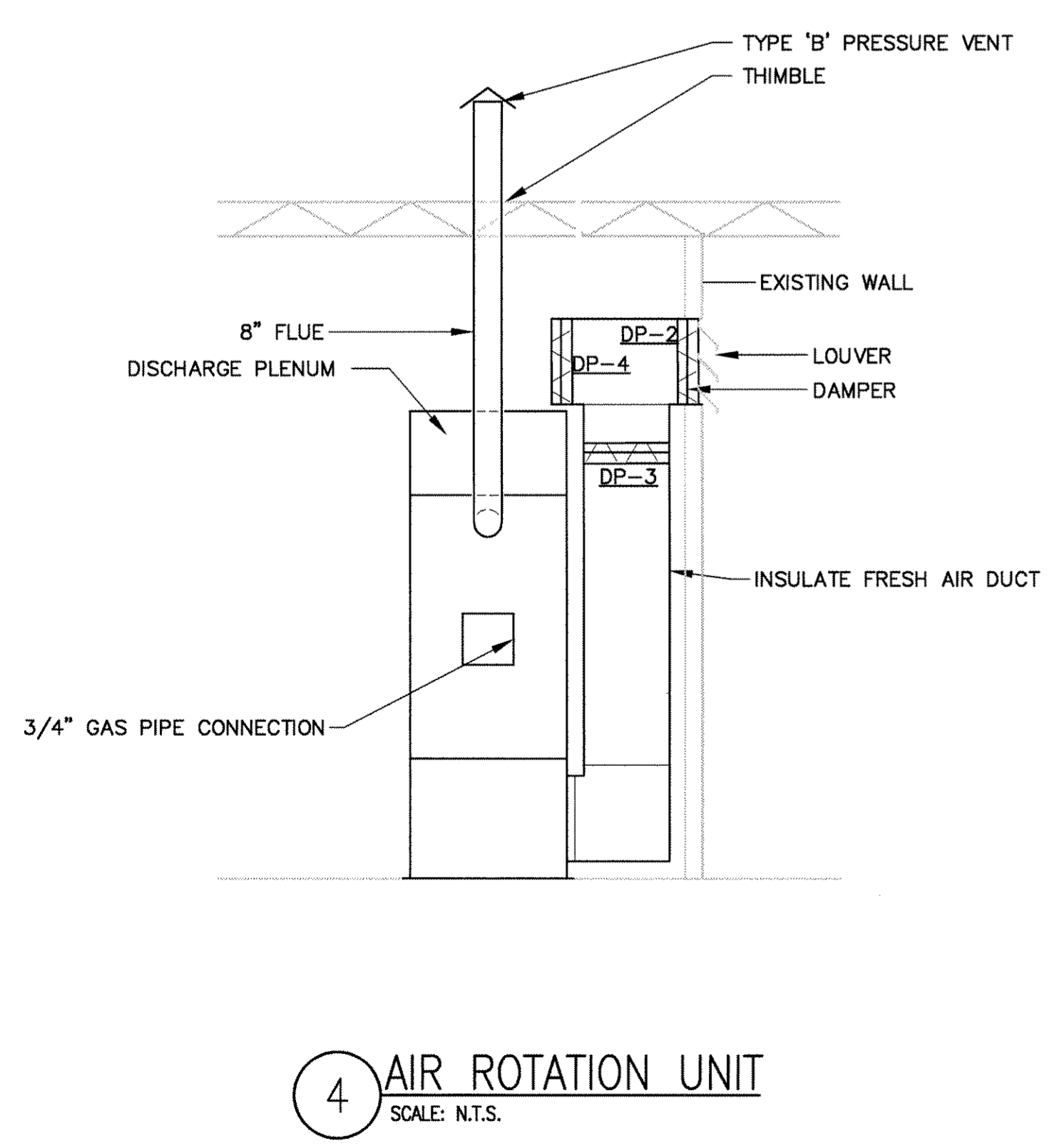
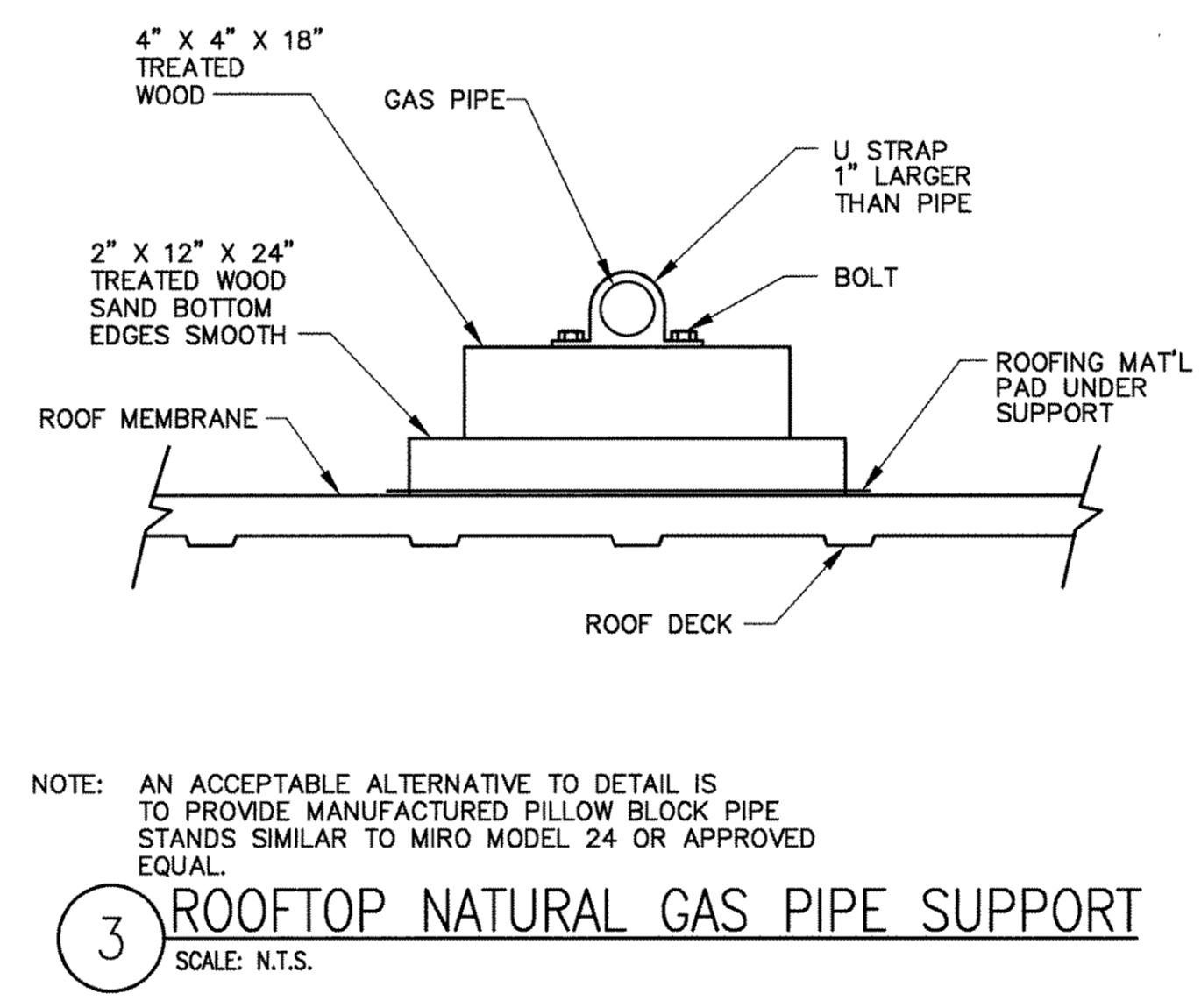
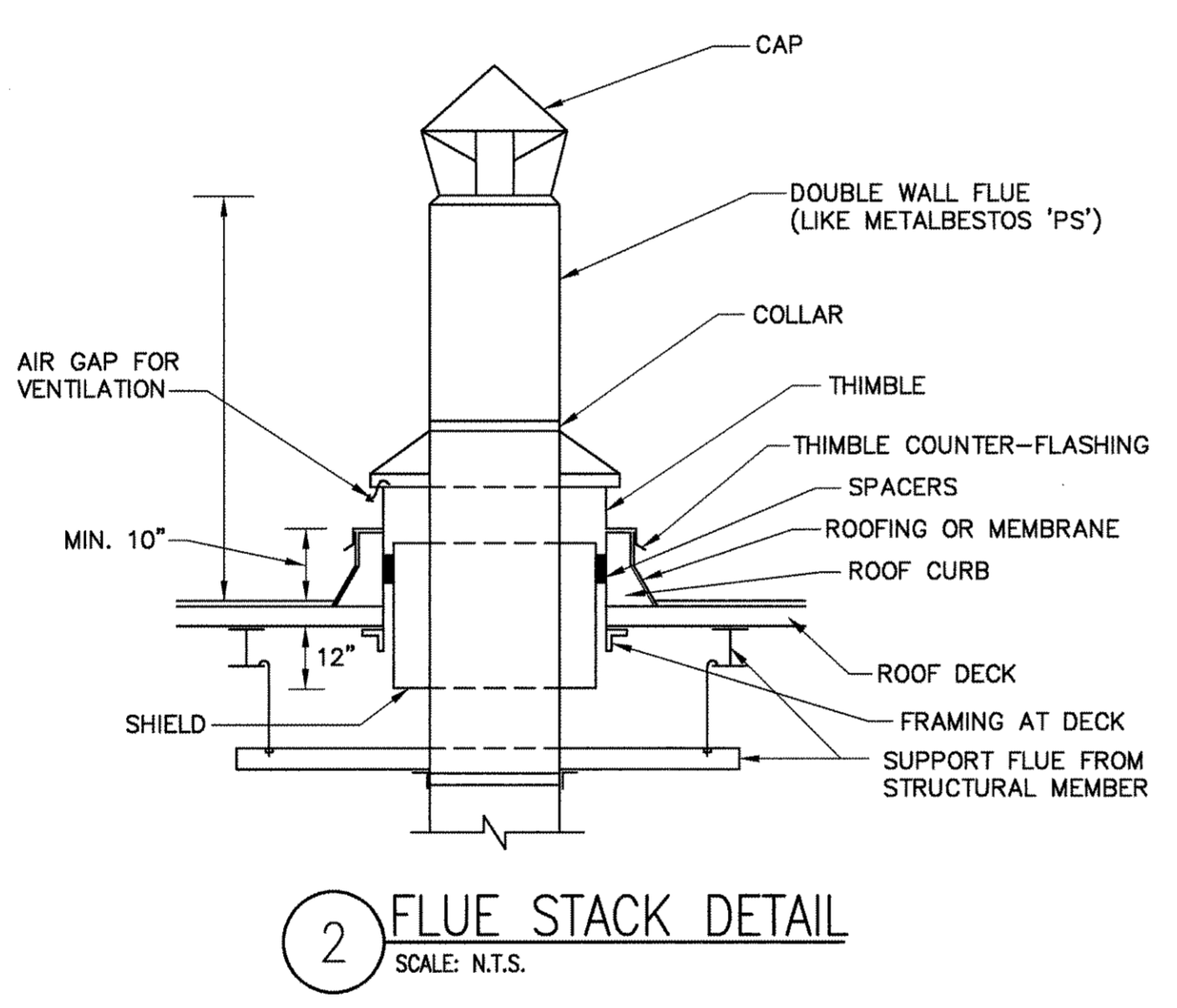
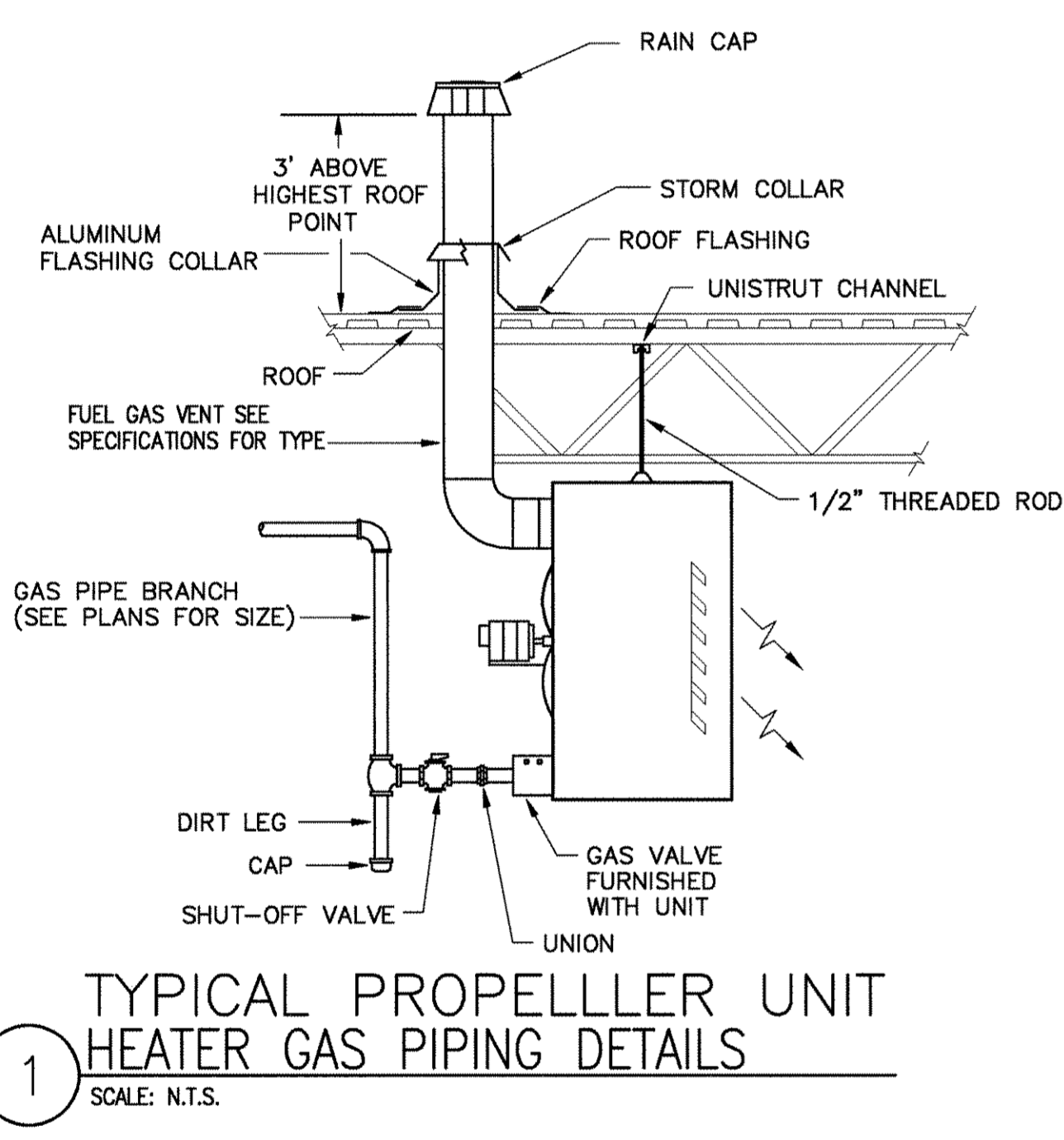
\* WALL HEATERS TO BE VERTICAL CABINET SLOPED TOP; ELECTRIC HEAT; UNIT MOUNTED FAN SPEED SWITCH; 4" SUBBASE

PROPELLOR UNIT HEATER	
MARK NO.	PUH-1
NAME	SEPERATED COMBUSTION
MANUFACTURER/MODEL	TRANE/GAND-010
LOCATION	MECHANICAL ROOM
SERVICE	MECHANICAL ROOM
INPUT MBH	100
OUTPUT MBH	80
FLUE OUTLET	4"
CFM	1400
TEMP. RISE °F	50
OUTLET VELOCITY	775
NOMINAL HORSEPOWER	1/20
MOTOR FLA @ 120	5.8
COMBUSTION AIR DUCT	

CIRCULATION FANS SCHEDULE	
NUMBER	EF-1 & EF-2
SERVICE	EXHAUST
LOCATION	DRILL HALL
DRIVE TYPE	DIRECT DRIVE
AIRFLOW (CFM)	5450
TOTAL SP (IN WC)	0.5
FAN RPM	1760
PROPELLER DIA(N)	24
TIP SPEED (FPM)	1.07
BHP	
MOTOR HORSEPOWER	1
VOLT/PH/Hz	208/3/60
MOTOR CONTROLLER	
MFR	NEW YORK BLOWER
MODEL	EF24
REFERENCE PLAN	
REMARKS	

AIR ROTATION UNIT	
MARK NO.	AR-1
NAME	APPLIED AIR
MANUFACTURER/MODEL	DRILL HALL
LOCATION	GENERAL HEATING
SERVICE	GENERAL HEATING
INPUT (MBH)	250
REQUIRED PRESSURE	
PIPING CONNECTION	3/4"
VOLTZ/HERTZ/PHASE	115V/60HZ/1 PHASE
FULL LOAD AMPS	7.0
MIN CIRCUIT AMPACITY	
MAX FUSE SIZE	
HP	.5
REMARKS	8" FLUE CONNECTION
HEATING CFM	5500
SHIPPING WEIGHT	
OPTIONS:	MANUFACTURER SUPPLIED DISCHARGE PLENUM 10 YEAR HEAT EXCHANGER WARRANTY FACTORY SUPPLIED AND MOUNTED CONTROLS FLOOR MOUNTED FRAME ADDITIONAL GAS PRESSURE REGULATOR

DAMPER SCHEDULE (CONTINUED)			
MARK NO.	DP-1, DP-2 & DP-4	L-1 & L-2	DP-3
NAME	SUPPLY DAMPER	SUPPLY LOUVER	SUPPLY DAMPER
MANUFACTURER	AMERICAN WARMING & VENT.	AMERICAN WARMING & VENT.	AMERICAN WARMING & VENT.
MODEL	VC-26	LE-23	VC-26
LOCATION	DRILL HALL	DRILL HALL	DRILL HALL
AIR VELOCITY	1000FPM		1000FPM
P.D.			
WIDTH	18	24	12
HEIGHT	42	30	12
DEPTH	5.5"	4"	5.5"
WEIGHT IN LBS			
REMARKS	AUTOMATIC ACTUATOR		AUTOMATIC ACTUATOR
	120V OPERATION		120V OPERATION



MUSSETT, NICHOLAS & ASSOCIATES  
PROJECT CONSULTANTS  
422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA 46202  
phone: (317) 631-9241  
fax: (317) 631-6619

Certified By \_\_\_\_\_

Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

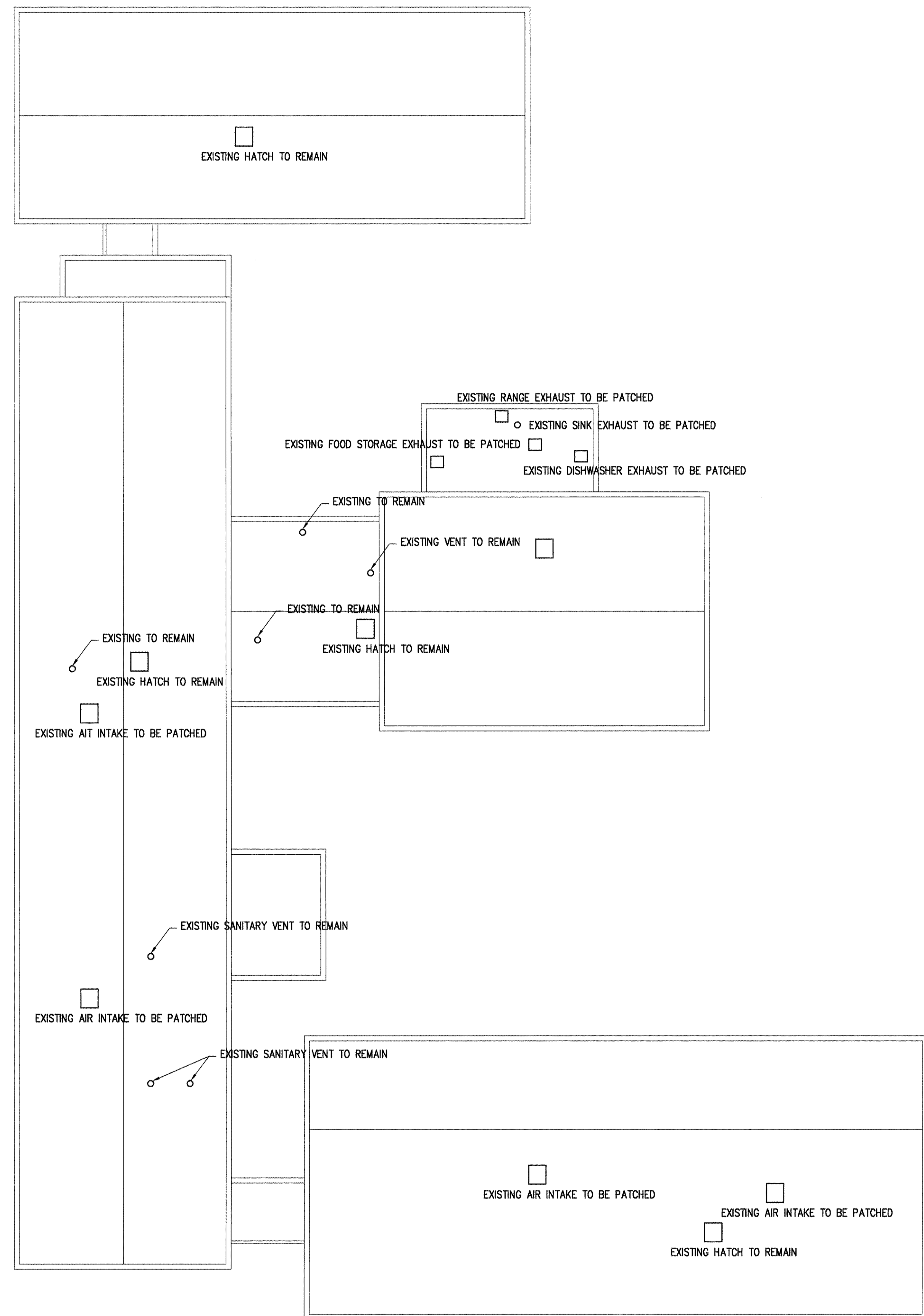
PROJECT NO:	2002218
DWG. FILE:	MH600.dwg
DRAWN BY:	DPS
CHK'D BY:	WJS
COPYRIGHT 2002	
MUSSETT, NICHOLAS AND ASSOC., INC.	

SHEET TITLE  
HVAC SCHEDULES AND DETAILS

MH-600  
SHEET X OF X

E  
D  
C  
B  
A

1 2 3 4 5 6



NORTH  
PARTIAL SECOND FLOOR PIPING PLAN  
SCALE: 1/16" = 1'-0"

GENERAL NOTES:  
 G1. ROOF PENETRATIONS ARE NOT TO SCALE.  
 KEYED PIPING NOTES:  
 NOTES

MUSSETT,  
NICHOLAS &  
ASSOCIATES  
PROJECT CONSULTANTS

*mna*

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619

Certified By \_\_\_\_\_

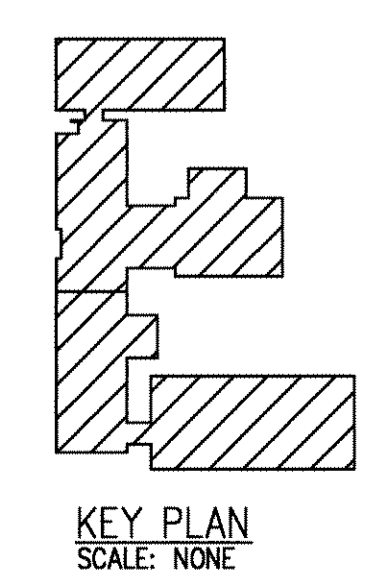
Renovations to  
U.S.A.R.C.  
Kessler Blvd.  
Indianapolis, IN

MARK	DATE	DESCRIPTION
	3/11/04	AS BUILT

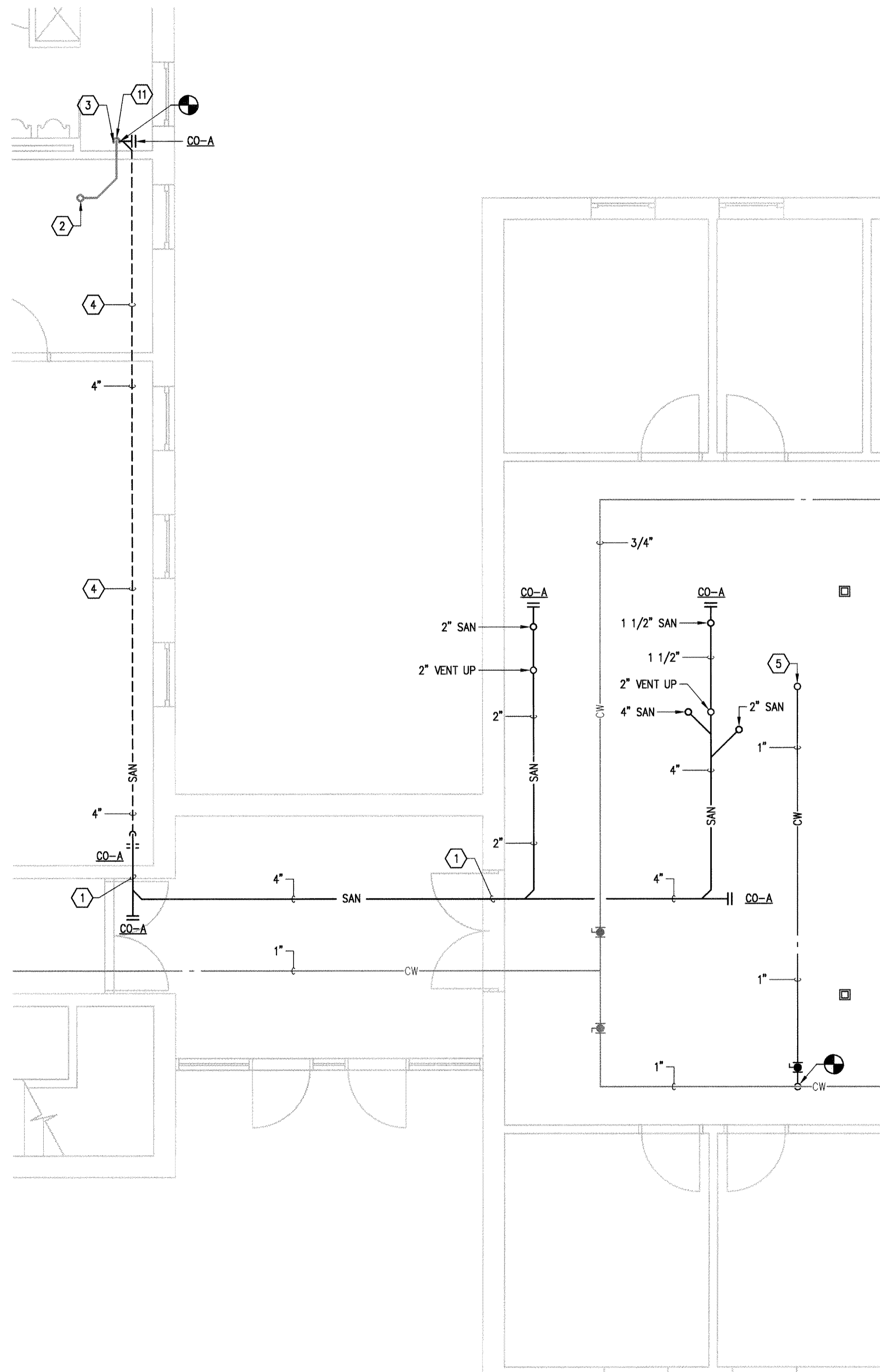
PROJECT NO: 2002218  
 DWG. FILE: MP104.dwg  
 DRAWN BY: DPS  
 CHKD BY: WJS  
 COPYRIGHT 2002  
 MUSSETT, NICHOLAS  
 AND ASSOC., INC.

SHEET TITLE  
 PARTIAL  
 SECOND FLOOR  
 PIPING PLAN

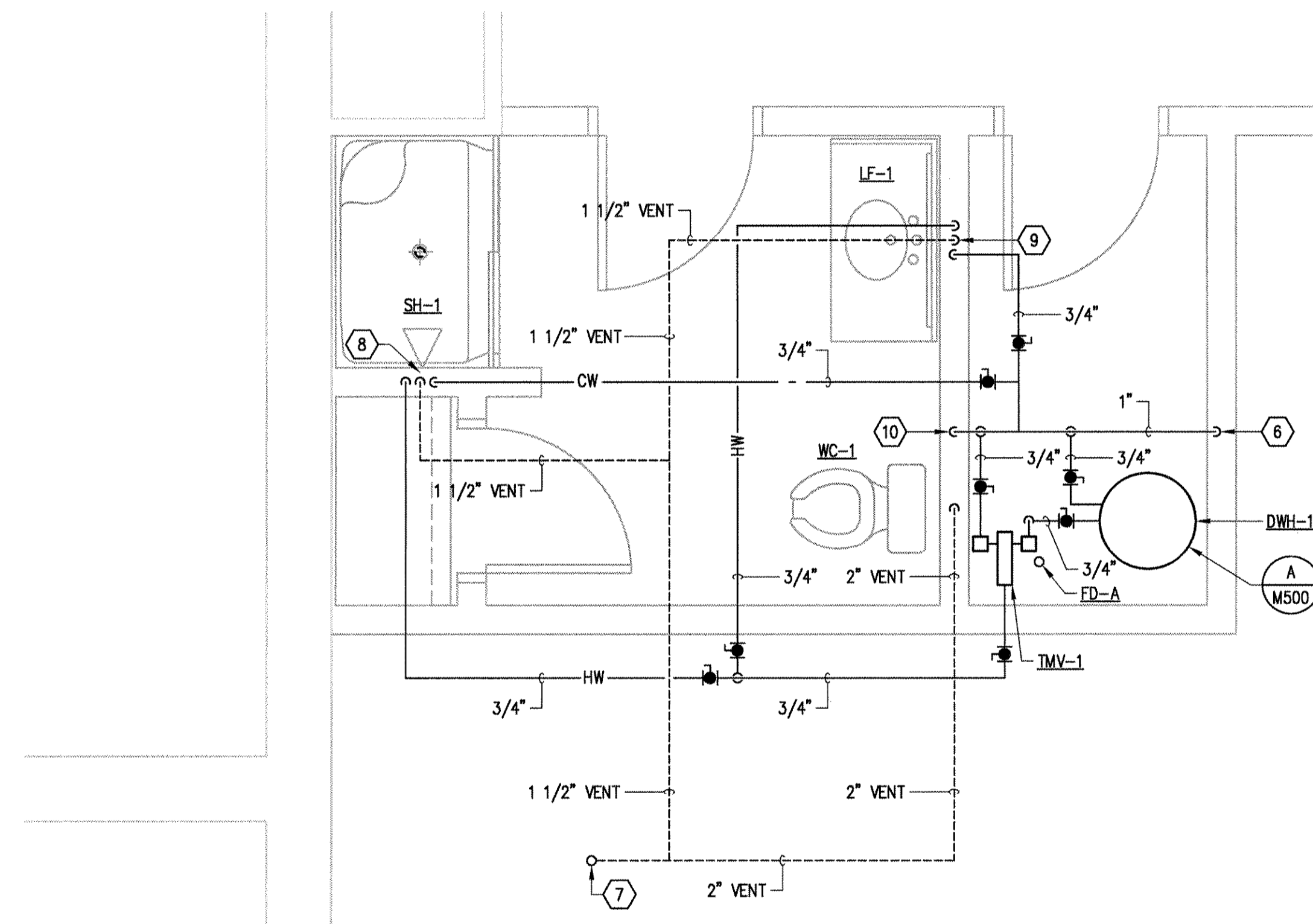
MP-105  
 SHEET X OF X



1 2 3 4 5 6



NORTH  
PARTIAL FIRST FLOOR PLAN - PLUMBING  
SCALE: 1/4" = 1'-0"



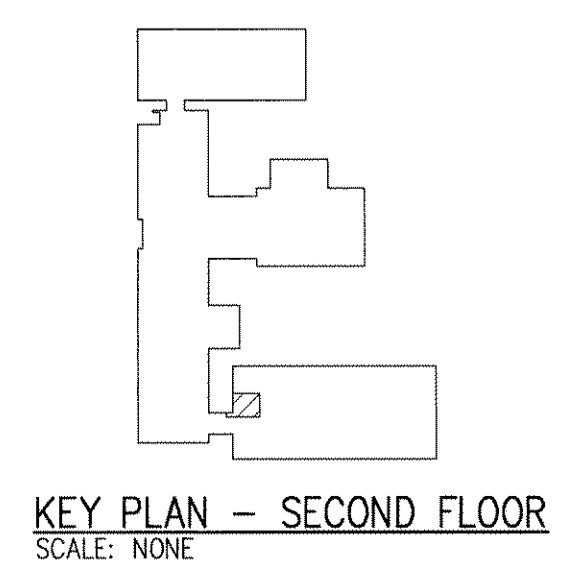
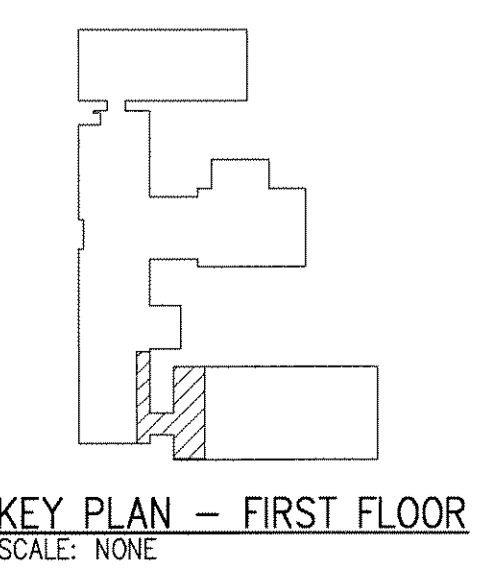
NORTH  
PARTIAL SECOND FLOOR PLAN - PLUMBING  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

- G1. VERIFY ALL DIMENSIONS AT THE CONSTRUCTION PROJECT JOB SITE PRIOR TO COMMENCING WORK.
- G2. DIMENSIONS SHOWN ARE FROM/TO FACE OF C.M.U., OR METAL STUDS UNLESS NOTED OTHERWISE.
- G3. DO NOT SCALE FROM DOCUMENTS.
- G4. PROJECT DISCREPANCIES, CONTRADICTIONS AND REQUESTS FOR ADDITIONAL NEEDED INFORMATION MUST BE REPORTED TO THE CONSTRUCTION COORDINATOR FOR RESOLUTION AND DIRECTION.
- G5. ALL APPROPRIATE NATIONAL, STATE AND LOCAL CONSTRUCTION, FIRE, LIFE SAFETY AND ACCESSIBILITY CODES APPLY AND MUST BE OBEYED.
- G6. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING WORK PERTAINING TO THIS PROJECT.

**PLAN NOTES:**

1. REMOVE AND DISPOSE OF ABANDONED PIPING PENETRATING BLOCK WALLS. ROUTE NEW SANITARY PIPING THROUGH EXISTING PENETRATIONS.
2. EXISTING SANITARY WASTE PIPING UP TO SECOND FLOOR RESTROOM.
3. EXISTING SANITARY WASTE PIPING DOWN TO TUNNEL.
4. 4" SANITARY PIPING BELOW FLOOR WITHIN TUNNEL.
5. 1" CW UP WITHIN WALL TO WATER HEATER UNIT AND RESTROOM FIXTURES. REFER TO PARTIAL SECOND FLOOR PLAN - PLUMBING ON THIS SHEET FOR CONTINUATION.
6. 1" CW DOWN WITHIN WALL. REFER TO PARTIAL FIRST FLOOR PLAN - PLUMBING ON THIS SHEET FOR CONTINUATION.
7. 2" VENT PIPING UP, 4" VTR. MAINTAIN MINIMUM CLEARANCE OF 10' BETWEEN VTR AND OUTDOOR AIR INTAKE OF ROOFTOP AIR HANDLING UNIT.
8. 3/4" HW, 3/4" CW, & 2" VENT PIPING DOWN TO SERVE SHOWER.
9. 3/4" HW, 3/4" CW, & 2" VENT PIPING DOWN TO SERVE LAVATORY.
10. 1" CW PIPING DOWN WITHIN WALL TO SERVE WATER CLOSET.
11. CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPING WITHIN TUNNEL AT THIS POINT.



**MUSSETT,  
NICHOLAS &  
ASSOCIATES**  
PROJECT CONSULTANTS

422 EAST NEW YORK ST.  
INDIANAPOLIS, INDIANA  
46202  
phone:  
(317) 631-9241  
fax:  
(317) 631-6619



Renovation and Additions  
to  
United States  
Army Reserve Center  
Indianapolis, IN

Certified By \_\_\_\_\_

MARK	DATE	DESCRIPTION
0	03/25/04	BID SET

REVISION BLOCK

PROJECT NO: 2004041  
DWG. FILE: P101.dwg  
DRAWN BY: JMR  
CHK'D BY: WJS  
COPYRIGHT 2004  
MUSSETT, NICHOLAS  
AND ASSOC., INC.

SHEET TITLE  
**PARTIAL FLOOR  
PLAN -  
PLUMBING**

**P101**  
1 OF 1