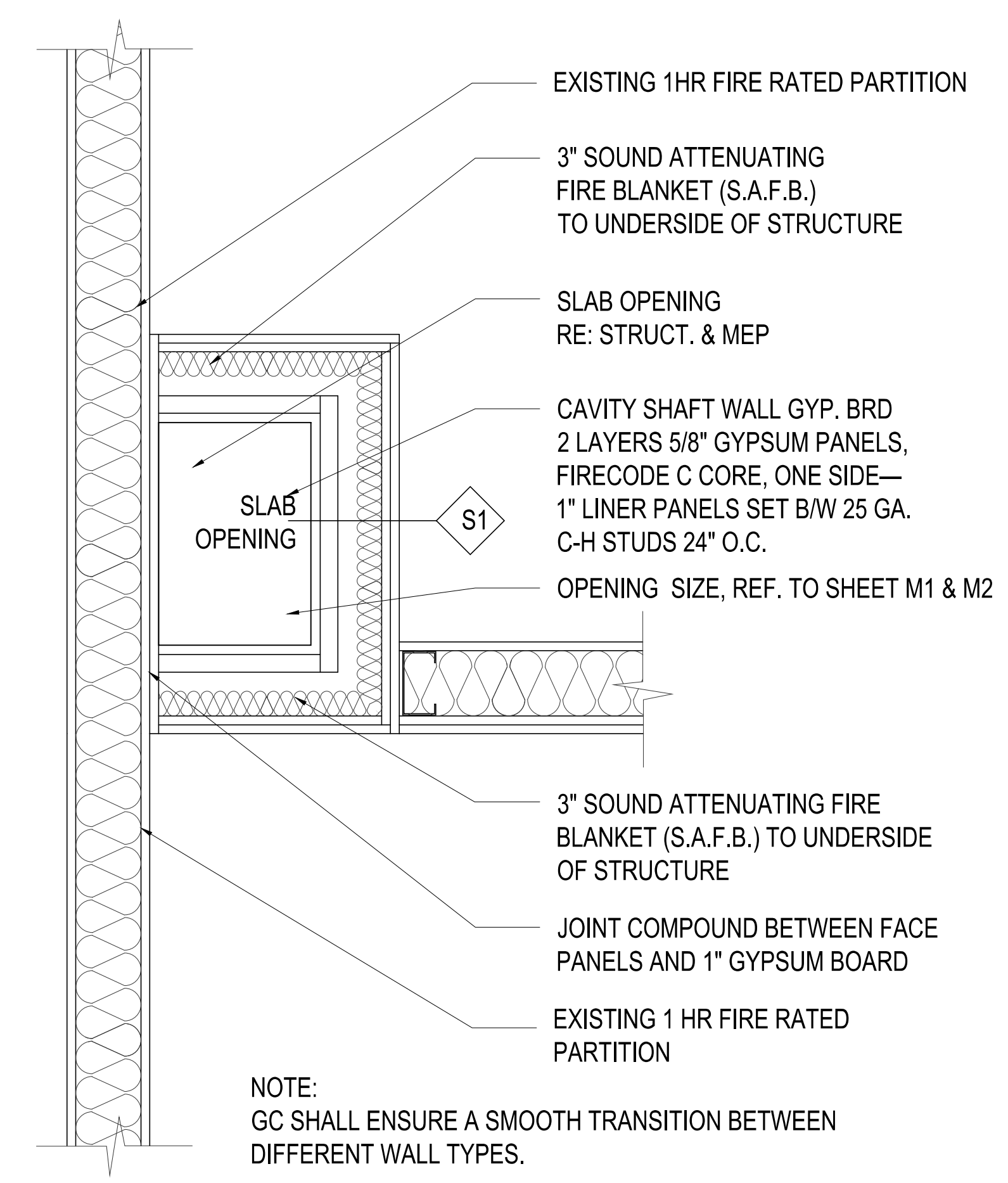
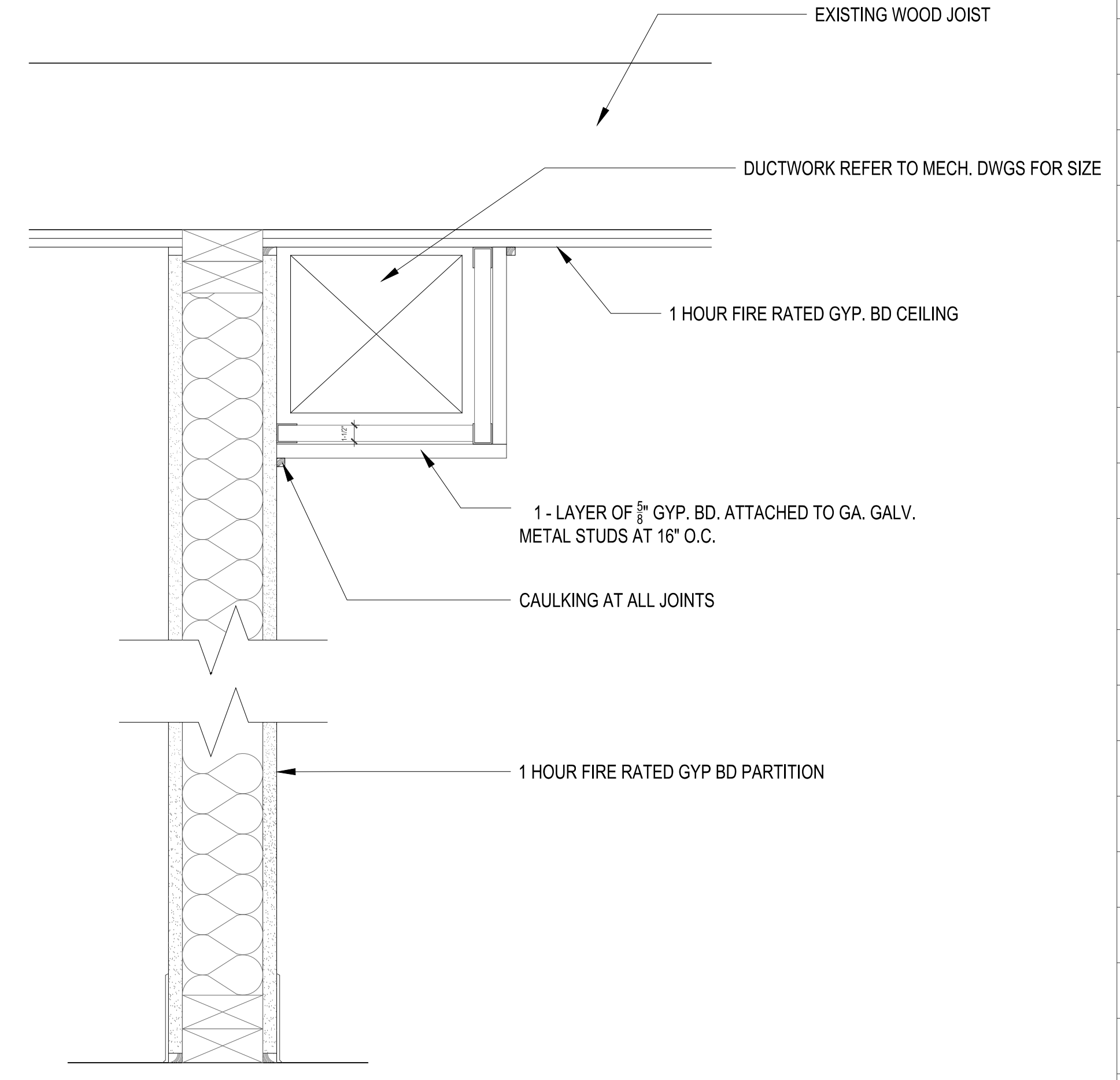


**FIRE TEST - 2 HR  
BASED ON UL # U423**

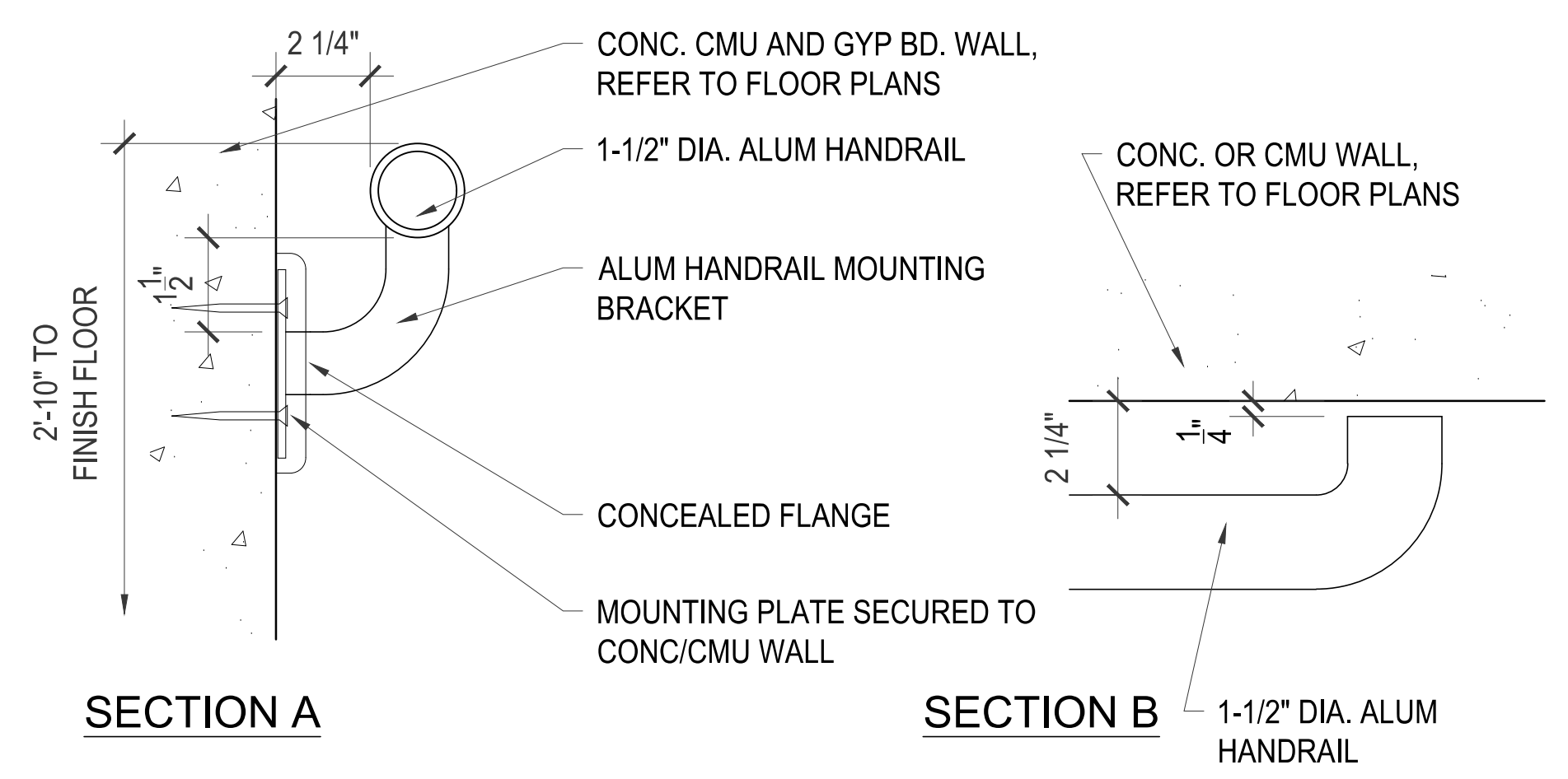
**S1 SHAFT PARTITION - 2HR RATED**  
SCALE: 1" = 1'-0"



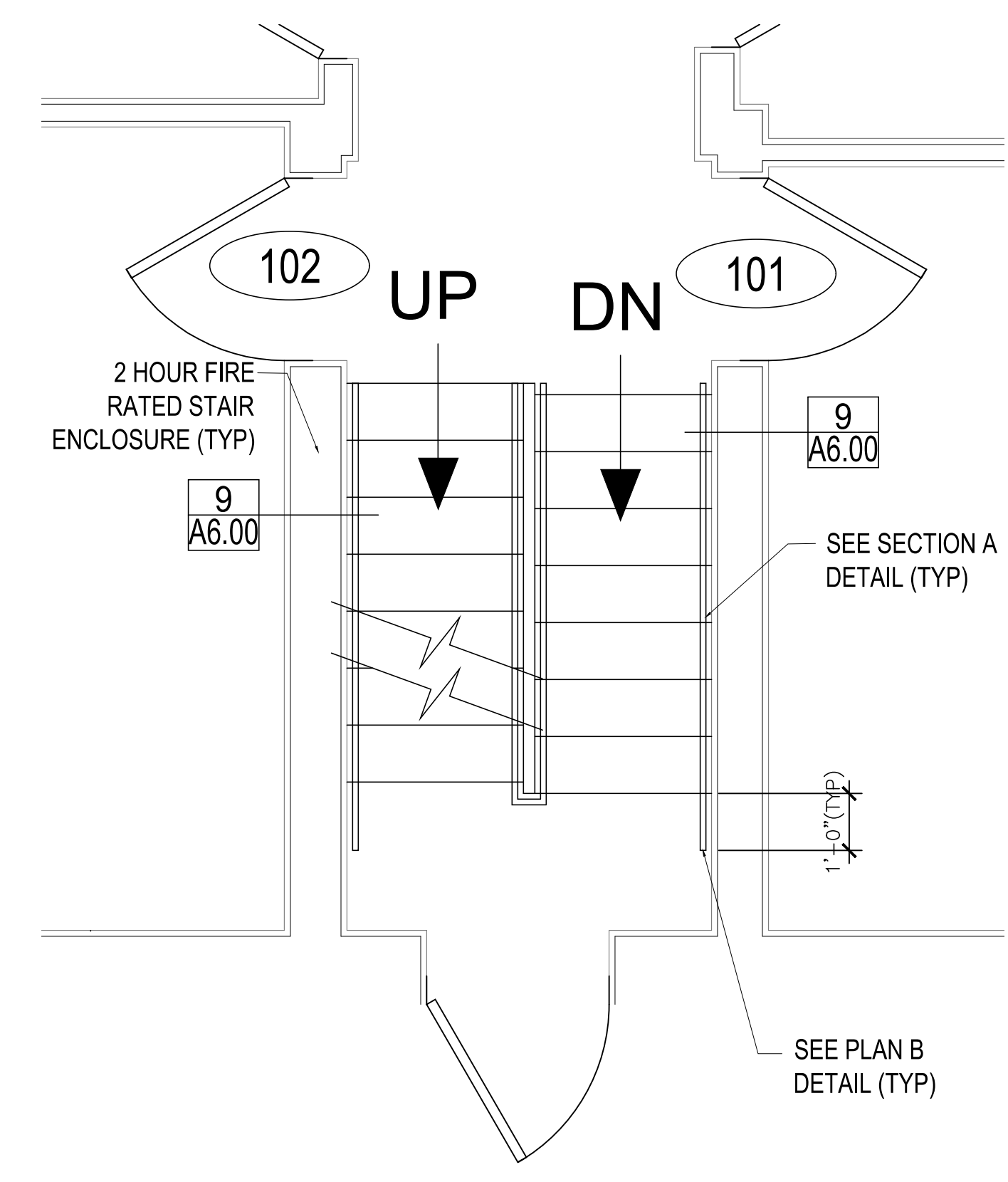
**1 2 HR FIRE RATED SHAFT PARTITION DETAIL  
UL DESIGN No. U423**  
SCALE: N.T.S.



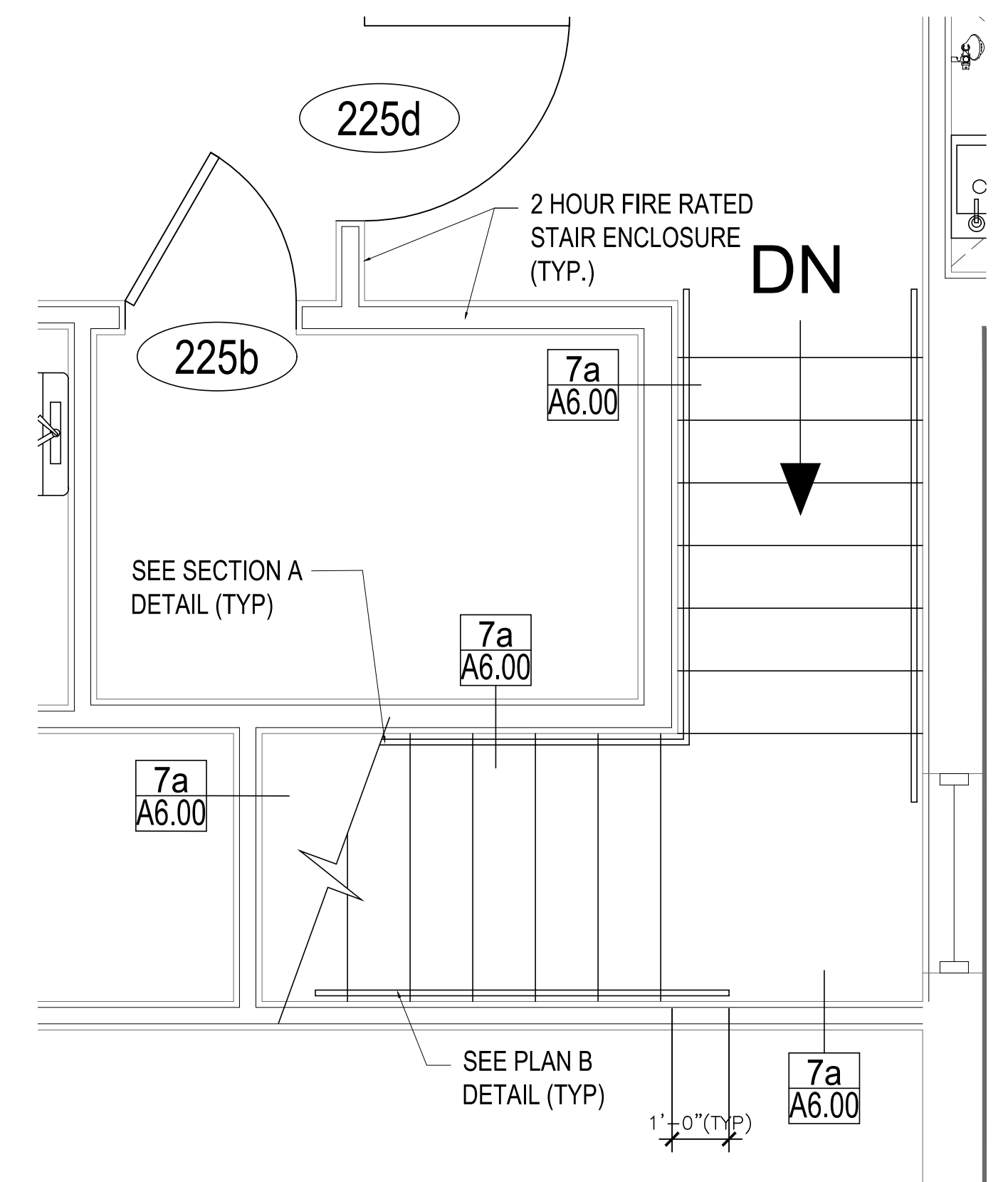
**3 SOFFIT DETAIL (NON. RATED)**  
SCALE: 1" = 1'-0"



**2 HANDRAIL DETAIL AT EAST AND WEST STAIRS ( EACH SIDE)**  
SCALE: N.T.S.



**4 EAST ENLARGE STAIR FLOOR PLAN**  
SCALE: 1/2" = 1'-0"



**5 WEST ENLARGE STAIR FLOOR PLAN**  
SCALE: 1/2" = 1'-0"

NOTE:  
1. REFER TO DETAILS ON THIS SHEET  
2. EXISTING ENCLOSED STAIR FLIGHT TREADS AND RISERS WITH LANDING TO REMAIN

| Rev. | Date       | Rev. | Date |
|------|------------|------|------|
| A    | 11.23.2020 |      |      |
| B    | 03.18.2021 |      |      |
| D    | 04.19.2021 |      |      |

1967  
ALTERATION LEVEL 2

**SOBE HOSTEL**  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

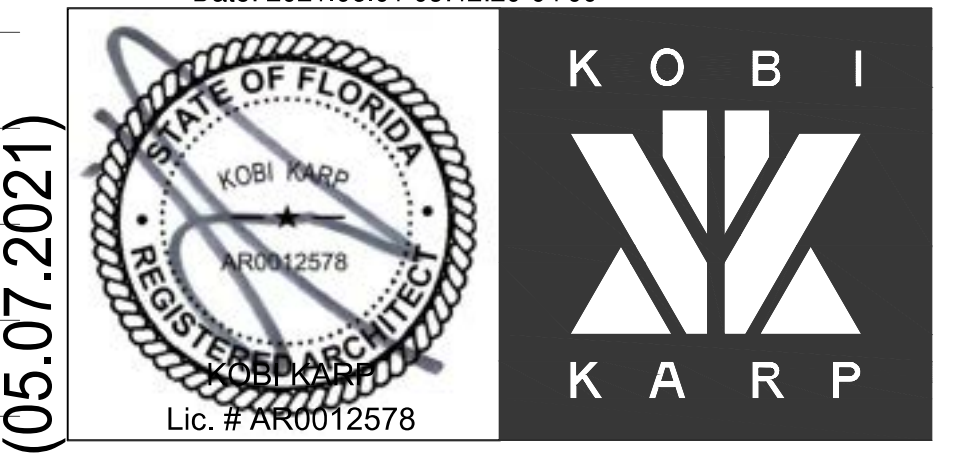
**Owner:**  
Name: ADAM HYATT  
Address: 235 WASHINGTON AVENUE  
Address: MIAMI BEACH, FL, 33139  
Tel: 305.490.1018  
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**Consultant:**  
Name:  
Address:  
Address:  
Tel:  
Email:

**Consultant:**  
Name:  
Address:  
Address:  
Tel:  
Email:

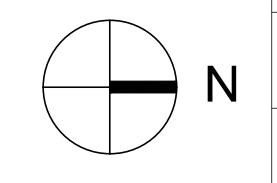
**Architect of Record:**  
Kobi Karp Architecture and Interior Design, Inc.  
2915 Biscayne Boulevard, Suite #200  
Miami, Florida 33137 USA  
Tel: +1(305) 573 1818  
Fax: +1(305) 573 3766  
Date: 2021.06.01 09:42:20-04'00'



MISCELLANEOUS DETAILS

|         |                |           |       |
|---------|----------------|-----------|-------|
| Date    | JUNE. 08, 2020 | Sheet No. | A6.01 |
| Scale   | AS INDICATED   |           |       |
| Project | 1967           |           |       |

REVISION 1E - (05.07.2021)



| FLOOR     | #                    | LOCATION                  | SIZE (W X H X TH) | DOOR |        |      | FRAME |             | FIRE RATING | THRESHOLD | HRDW R                  | REMARKS   |
|-----------|----------------------|---------------------------|-------------------|------|--------|------|-------|-------------|-------------|-----------|-------------------------|-----------|
|           |                      |                           |                   | MATL | FINISH | TYPE | MATL  | FINISH      |             |           |                         |           |
| 1ST FLOOR | 101                  | ROOM 101                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 102                  | ROOM 102                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 102A                 | ROOM 102 PRIVATE BATHROOM | 2'-8" X 7'-0"     | WD   | P      | A    | NONE  | P           | -           | NONE      | 02                      | BARN DOOR |
|           | 103                  | ROOM 103                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 104                  | ROOM 104                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 104A                 | ROOM 104 PRIVATE BATHROOM | 2'-8" X 7'-0"     | WD   | P      | A    | NONE  | P           | -           | NONE      | 02                      | BARN DOOR |
|           | 105                  | WOMEN SHOWER (01)         | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07                      | -         |
|           | 106                  | ROOM 106                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 107                  | LAUNDRY ROOM              | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07                      | -         |
|           | 108                  | ROOM 108                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 109                  | MEN SHOWERS (01)          | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07                      | -         |
|           | 110                  | ROOM 110                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 111                  | ROOM 111                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 112                  | ROOM 112                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 113                  | ROOM 113                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
| 114       | ROOM 114             | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -                       |           |
| 115       | RECEPTION LOBBY DOOR | 2'-8" X 7'-0"             | WD                | P    | B      | HM   | P     | 45 MIN. (C) | NONE        | 06        | -                       |           |
| 115A      | EXITING EAST STAIRS  | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 03        | ON MAGNETIC DOOR HOLDER |           |
| 115B      | EXITING NW STAIRS    | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 03        | -                       |           |
| 115C      | OFFICE MANAGER FOYER | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 04        | -                       |           |
| 116       | ROOM 116             | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -                       |           |
| 117       | STORAGE CLOSET       | 2'-8" X 7'-0"             | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 05        | -                       |           |
| 2ND FLOOR | 201                  | ROOM 201                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 202                  | ROOM 202                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 203                  | ROOM 203                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 204                  | ROOM 204                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 204A                 | ROOM 204 PRIVATE BATHROOM | 2'-8" X 7'-0"     | WD   | P      | A    | NONE  | P           | -           | NONE      | 02                      | BARN DOOR |
|           | 205                  | ROOM 205                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |
|           | 206                  | ROOM 206                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01                      | -         |

| FLOOR     | #        | LOCATION            | SIZE (W X H X TH) | DOOR |        |      | FRAME |             | FIRE RATING | THRESHOLD | HRDW R | REMARKS                 |
|-----------|----------|---------------------|-------------------|------|--------|------|-------|-------------|-------------|-----------|--------|-------------------------|
|           |          |                     |                   | MATL | FINISH | TYPE | MATL  | FINISH      |             |           |        |                         |
| 2ND FLOOR | 208      | ROOM 208            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 209      | MEN SHOWERS (03)    | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07     | -                       |
|           | 210      | ROOM 210            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 211      | MEN SHOWER (02)     | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07     | -                       |
|           | 212      | ROOM 212            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 213      | ROOM 213            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 214      | ROOM 214            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 215      | ROOM 215            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 216      | ROOM 216            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 217      | ROOM 217            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 218      | ROOM 218            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 219      | ROOM 219            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 220      | ROOM 220            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 221      | ROOM 221            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 222      | ROOM 222            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 223      | WOMEN SHOWERS (02)  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 07     | -                       |
|           | 224      | ROOM 224            | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 01     | -                       |
|           | 225      | HK (02)             | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 05     | -                       |
|           | 225A     | JAN                 | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 05     | -                       |
|           | 225B     | HK (01)             | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 05     | -                       |
|           | 225C     | AC                  | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 05     | -                       |
|           | 225D     | EXITING NW STAIRS   | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 03     | ON MAGNETIC DOOR HOLDER |
|           | 225E     | EXITING EAST STAIRS | 2'-8" X 7'-0"     | WD   | P      | A    | HM    | P           | 45 MIN. (C) | NONE      | 03     | ON MAGNETIC DOOR HOLDER |
| 226       | ROOM 226 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |
| 227       | ROOM 227 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |
| 228       | ROOM 228 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |
| 229       | ROOM 229 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |
| 230       | ROOM 230 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |
| 231       | ROOM 231 | 2'-8" X 7'-0"       | WD                | P    | A      | HM   | P     | 45 MIN. (C) | NONE        | 01        | -      |                         |

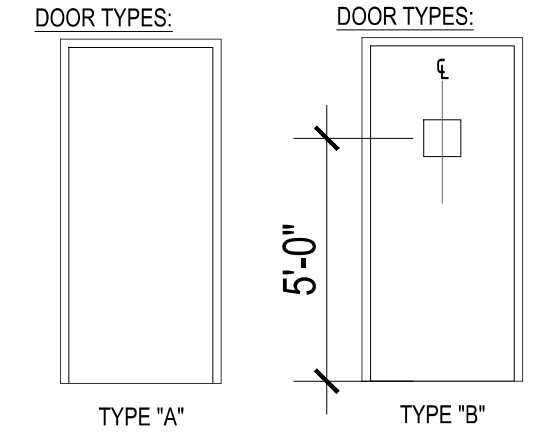
DOOR HARDWARE:

- GROUP 01:  
- BALL BEARING SPRING HINGES  
- DOOR CLOSER  
- RFID TELKONET GATEWAY ENTRY LOCKSET  
- DOOR VIEWER  
- DOOR GUARD LATCH  
- SMOKE SEALS  
- AUTOMATIC DOOR BOTTOM  
- WALL STOP
- GROUP 02:  
- BARN DOOR HEADER BAR  
- DOOR ROLLER GUIDES WITH BUMPER STOP  
- DECORATIVE 1" X 10" PULL BAR
- GROUP 03:  
- BALL BEARING HINGES  
- DOOR CLOSER  
- ELECTRO MAGNETIC DOOR HOLDER  
- PANIC EXIT DEVICE W/ PASSAGE LEVER LATCH  
- SMOKE SEALS  
- AUTOMATIC DOOR BOTTOM DOORS # 115A, 225E SHALL BE NORMALLY OPEN AND WILL CLOSE IN CASE OF FIRE. THE NEW STAIR TO LOBBY DOOR # 115B LOBBY TO 1ST FLOOR CORRIDOR DOOR # 115 SHALL BE NORMALLY CLOSED.
- GROUP 04:  
- BALL BEARING HINGES  
- DOOR CLOSER  
- OFFICE ENTRY LEVER LOCKSET  
- SMOKE SEALS  
- WALL STOP
- GROUP 05:  
- BALL BEARING HINGES  
- DOOR CLOSER  
- RFID VING GATEWAY LEVER LOCKSET  
- SMOKE SEALS
- GROUP 06:  
- BALL BEARING HINGES  
- DOOR CLOSER  
- RFID VING GATEWAY LEVER LOCKSET  
- SMOKE SEALS  
- AUTOMATIC DOOR BOTTOM
- GROUP 07:  
- BALL BEARING HINGES  
- DOOR CLOSER  
- RFID VING GATEWAY LEVER LOCKSET  
- SMOKE SEALS  
- FLOOR STOP

LEGEND

- P PAINTED  
FF FACTORY FINISHED  
GL GLASS  
AL ALUMINUM  
MA MASONITE  
WD WOOD  
HM HOLLOW METAL  
PL HIGH PRESS PLASTIC LAMINATE / VENEER  
FL FRAMELESS W/ CONCEAL HINGES

- NOTE: EXISTING DOORS AND FRAMES ARE TO REMAIN AND ONLY BE PAINTED
- ALL FIRE RATED DOORS SHALL HAVE SAFE-CLOSING AND LATCHING HW.
  - ALL INTERIOR DOOR TO HAVE NO MORE THAN 1/2" TRANSITION AT SILL (U.O.N.)



| Rev. | Date                   | Rev. | Date       |
|------|------------------------|------|------------|
| 1    | GENERAL COMMENTS       |      | 11.23.2020 |
| 1A   | FIRE DEPT COMMENTS     |      | 02.04.2021 |
| 1D   | BUILDING DEP. COMMENTS |      | 04.19.2021 |

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1967

ALTERATION LEVEL 2

SOBE HOSTEL  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

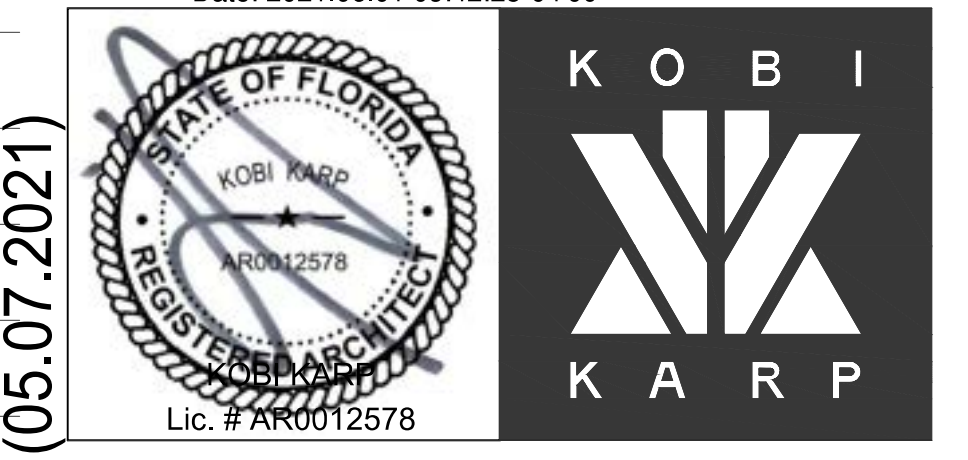
Owner:  
Name: ADAM HYATT  
Address: 235 WASHINGTON AVENUE  
MIAMI BEACH, FL, 33139  
Tel: 305.490.1018  
Email: ADAM@VULTUREFUND.COM

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Tel: (305) 308.9857  
Email: RPerez@RPA-ENGINEERING.COM

Consultant:  
Name:  
Address:  
Tel:  
Email:

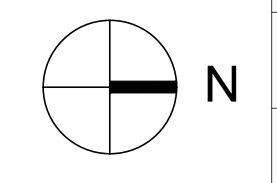
Consultant:  
Name:  
Address:  
Tel:  
Email:

Architect of Record:  
Kobi Karp Architecture and Interior Design, Inc.  
2915 Biscayne Boulevard, Suite #200  
Miami, Florida 33137 USA  
Tel: +1(305) 573 1818  
Fax: +1(305) 573 3766  
Date: 2021.06.01 09:42:25-04'00'

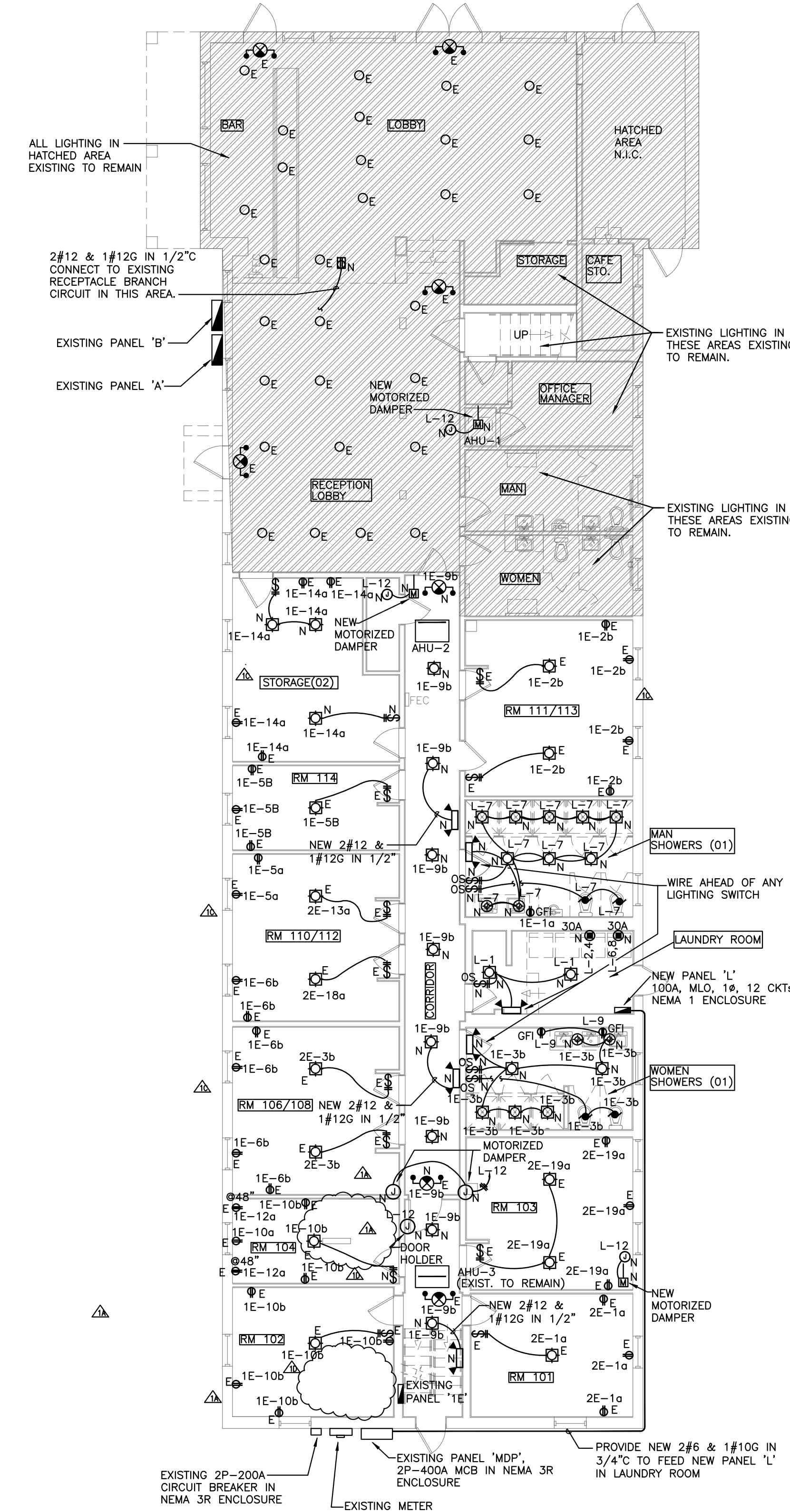


DOOR SCHEDULE

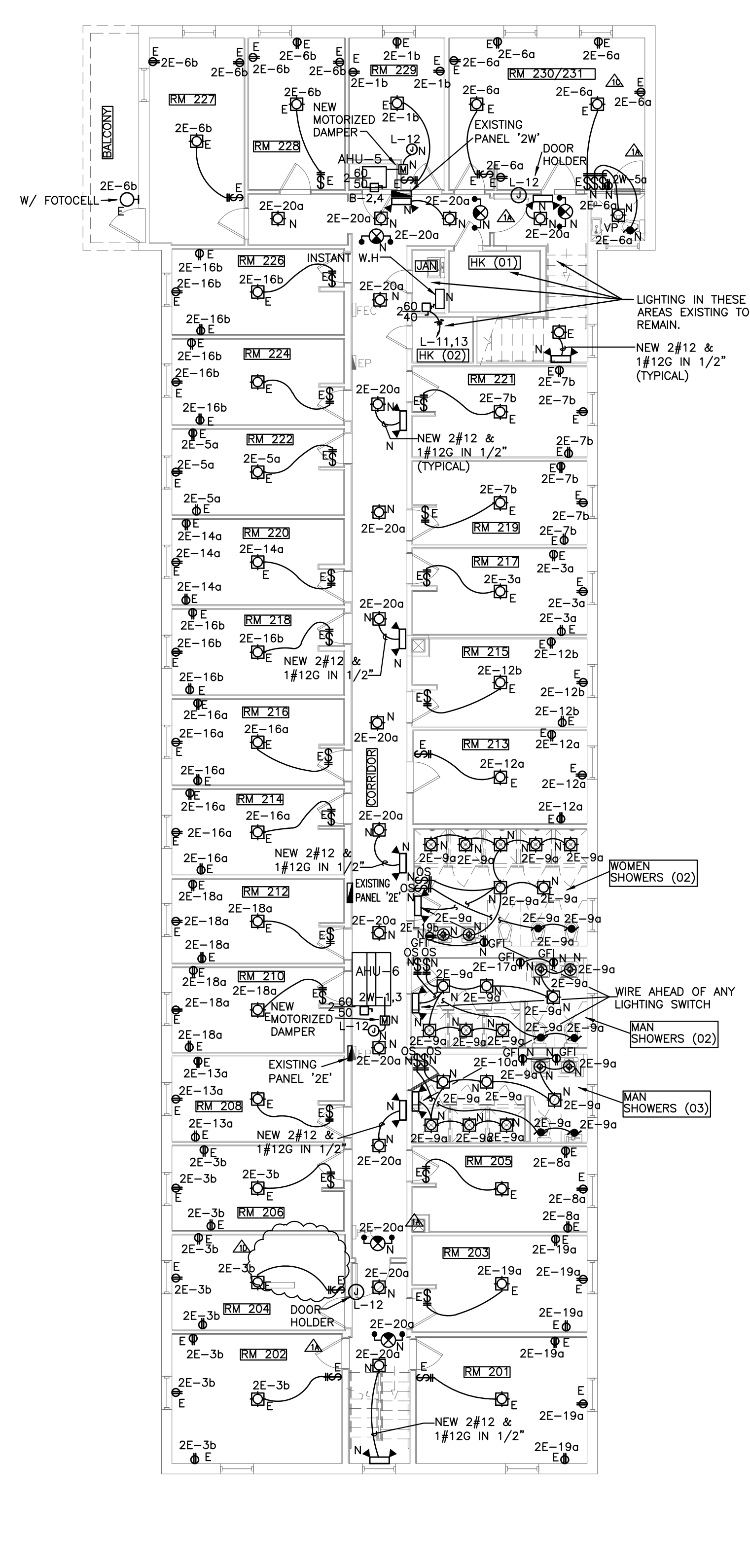
|         |                |           |       |
|---------|----------------|-----------|-------|
| Date    | JUNE. 08, 2020 | Sheet No. | A8.00 |
| Scale   | AS INDICATED   |           |       |
| Project | 1967           |           |       |



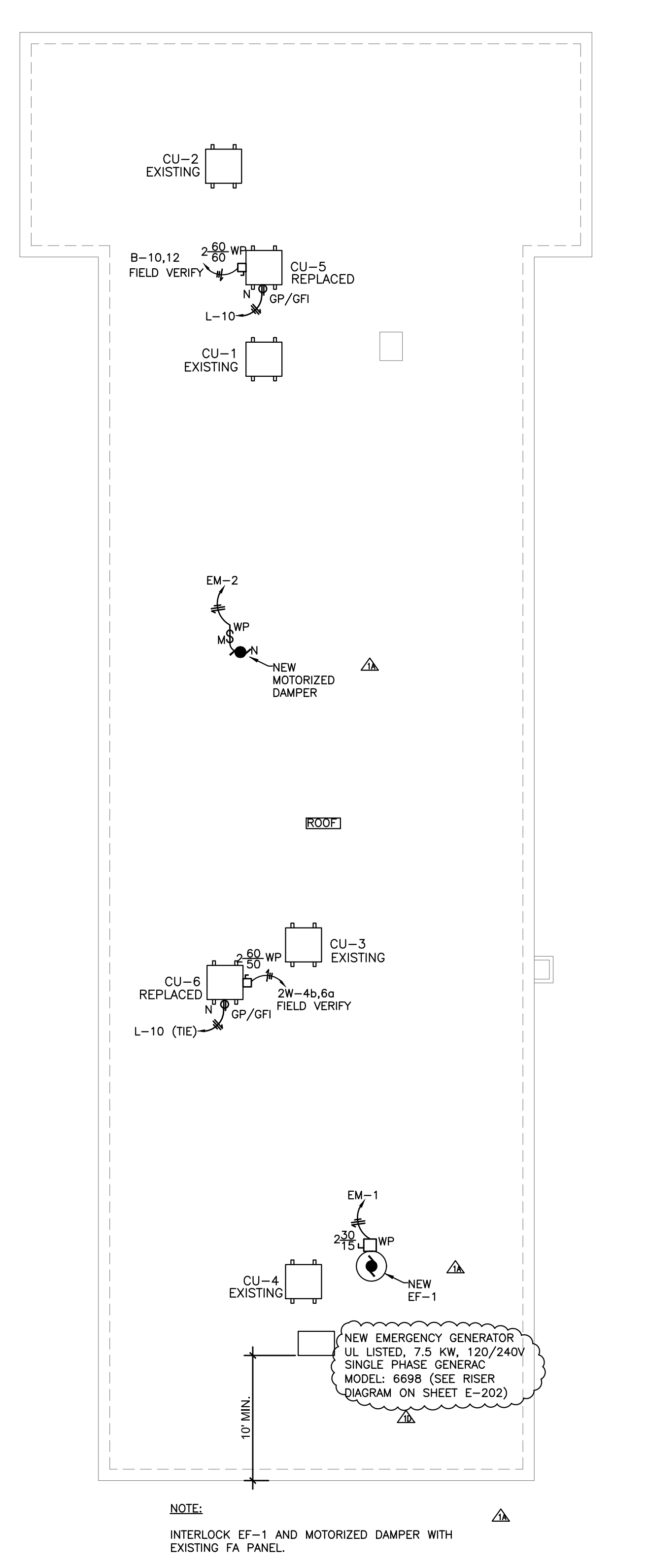
REVISION 1E - (05.07.2021)



1 LEVEL ONE - PROPOSED ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0" N



2 LEVEL TWO - PROPOSED ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0" N



3 PROPOSED ELECTRICAL ROOF PLAN  
SCALE: 1/8" = 1'-0" N

**ELECTRICAL DEMOLITION NOTES:**

- THE NATURE OF THIS REMODELING TYPE PROJECT POSSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE ELECTRICAL CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING CIRCUITS. THE MAJOR PORTION OF THE CIRCUITS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
- CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT FROM DAMAGE EXISTING CIRCUITS USED FOR FUTURE CONNECTIONS.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING CIRCUITS BEFORE COMMENCING TO WORK AND MAKE MODIFICATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
- EXISTING CIRCUITS SERVING AREAS NOT COVERED BY THIS CONTRACT, BUT IN SERVICE AT THIS TIME, SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.

**ELECTRICAL NOTE:**

- CLASSIFICATION STRUCTURE TYPE III. USE OF CM CABLE (ROMEX) IS ALLOWED

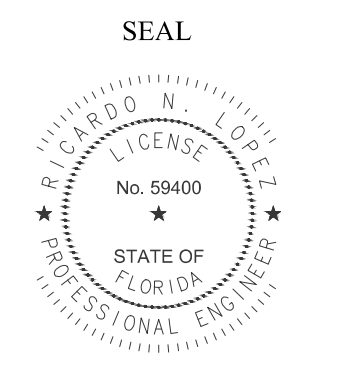
DOT NOT SEND THIS SET OF ELECTRICAL PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.

**ELECTRICAL SCOPE OF WORK**

- PROVIDE NEW ELECTRICAL PANEL 'L' AT LAUNDRY ROOM TO SERVE LAUNDRY EQUIPMENT AND NEW LIGHT FIXTURES AND RECEPTACLES AT SHOWER AREAS.
- PROVIDE NEW EMERGENCY GENERATOR ON ROOF FOR NEW EXHAUST FAN FOR SMOKE EVACUATION SYSTEM.
- PROVIDE NEW DOOR HOLDERS FOR THE NEW SMOKE EVACUATION SYSTEM.
- PROVIDE CONTROL MODULES FOR SHUTDOWN A/C IN FIRE EVENT.
- SHOW ON PLANS ALL EXISTING LIGHT FIXTURES AND RECEPTACLES IN THE BUILDING AREAS.

**Ricardo N Lopez** Digitally signed by Ricardo N Lopez  
Date: 2021.04.28 08:34:58 -04'00'

**RICARDO LOPEZ, PE**  
CONSULTING ENGINEER  
3461 SE 1st STREET  
HOMESTEAD  
FLORIDA 33033  
TEL. 786 200 8836  
PE # 59400



| Rev.             | Date       | Rev. | Date |
|------------------|------------|------|------|
| NOT USED         |            |      |      |
| B.D.C./ENG. REV. | 02/04/2021 |      |      |
| NOT USED         |            |      |      |
| ZONING COMMENT   | 04/01/2021 |      |      |
| B.D.C. COMMENT   | 04/19/2021 |      |      |

**SOBE HOSTEL**  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

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Email: ADAM@VULTUREFUND.COM

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**Consultant:**  
Name:  
Address:  
Tel:  
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**Consultant:**  
Name:  
Address:  
Tel:  
Email:

**Architect of Record:**  
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Fax: +1(305) 573 3766



KOBI KARP  
Lic. # AR0012578  
**PROP. ELECT. LEVEL 1, 2 & ROOF**

|         |               |           |       |
|---------|---------------|-----------|-------|
| Date    | JUNE 08, 2020 | Sheet No. | E-101 |
| Scale   | AS INDICATED  |           |       |
| Project | 1967          |           |       |

CONSTRUCTION TYPE III. ALLOWING THE USE OF ROMEX.

| EXISTING PANEL 'MDP'         |                   |               |           |                                 |   |   |          |           |             |                   |               |
|------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|---------------|
| TYPE : GE                    |                   | 10,000 A.I.C. |           | MAINS : 2P-400A MCB             |   |   |          |           |             |                   |               |
| MOUNTING : SURFACE           |                   | NEMA 3R       |           | BUS RATING : 400 AMP            |   |   |          |           |             |                   |               |
| LOCATION : OUTSIDE EAST WALL |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |               |
| DESCRIPTION                  | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION   |
| NEW PANEL 'EM' THRU ATS      | #10-3/4           | 1226          | 30        | 1                               |   |   | 2        | 2         |             |                   | SPACE         |
| SPACE                        |                   |               |           | 3                               |   |   | 4        | 4         |             |                   | SPACE         |
| SPACE                        |                   |               |           | 5                               |   |   | 6        | 6         |             |                   | SPACE         |
| SPACE                        |                   |               |           | 7                               |   |   | 8        | 8         |             |                   | SPACE         |
| SPACE                        |                   |               |           | 9                               |   |   | 10       | 10        |             |                   | SPACE         |
| SPACE                        |                   |               |           | 11                              |   |   | 12       | 12        |             |                   | SPACE         |
| SPACE                        |                   |               |           | 13                              |   |   | 14       | 2         | 2500        | EXISTING          | EXISTING LOAD |
| SPACE                        |                   |               |           | 15                              |   |   | 16       | 40        |             |                   | SPACE         |
| SPACE                        |                   |               |           | 17                              |   |   | 18       |           |             |                   | SPACE         |
| SPACE                        |                   |               |           | 19                              |   |   | 20       |           |             |                   | SPACE         |
| SPACE                        |                   |               |           | 21                              |   |   | 22       | 2         | 11760       | #6-3/4"           | NEW PANEL 'L' |
| SPACE                        |                   |               |           | 23                              |   |   | 24       | 60        |             |                   | SPACE         |
| SPACE                        |                   |               |           | 25                              |   |   | 26       | 2         | 1200        | EXISTING          | EXISTING LOAD |
| SPACE                        |                   |               |           | 27                              |   |   | 28       | 40        |             |                   | SPACE         |
| SPACE                        |                   |               |           | 29                              |   |   | 30       | 2         |             |                   | SPACE         |
| SPACE                        |                   |               |           | 31                              |   |   | 32       | 40        |             |                   | SPACE         |
| EXISTING LOAD                | EXISTING          | 100           | 1         | 20                              |   |   | 34       | 2         |             |                   |               |
| EXISTING LOAD                | EXISTING          | 100           | 1         | 20                              |   |   | 35       | 2         |             |                   |               |
| EXISTING LOAD                | EXISTING          | 100           | 1         | 20                              |   |   | 37       | 2         | 21950       | EXISTING          | PANEL '2E'    |
| APPLIANCES                   | EXISTING          | 1500          | 1         | 20                              |   |   | 39       | 2         | 4700        | EXISTING          | PANEL 'A'     |
| OFFICE                       | EXISTING          | 100           | 1         | 20                              |   |   | 41       | 2         |             |                   |               |
| PANEL '1E'                   | EXISTING          | 26510         | 2         | 200                             |   |   |          |           |             |                   |               |

**LOAD CALCULATION PANEL 'MDP'**  
CONTINUOUS LOAD AT 125% = 400 VA X 1.25 = 500 VA  
NON CONTINUOUS LOAD AT 100% = 70120 VA  
TOTAL DEMANDED LOAD = 70620 VA  
TOTAL DEMAND AMPS = 294 AMPS PER PHASE

**LOAD CALCULATION TOTAL SERVICE**  
TOTAL DEMANDED LOAD PANEL 'MDP' = 70620 VA  
TOTAL DEMANDED LOAD PANEL 'B' = 23700 VA  
TOTAL DEMANDED LOAD SERVICE = 94320 VA  
TOTAL AMPS SERVICE = 393 AMPS

**NOTE:**  
PANEL 'EM' LOAD HAS NOT BEEN INCLUDE IN THE CALCULATIONS BECAUSE IT ONLY OCCURS IN THE FIRE ALARM EVENT..

| EXISTING PANEL '1E'    |                   |               |           |                                 |   |   |          |           |             |                   |                        |
|------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|------------------------|
| TYPE : EXISTING        |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |                        |
| MOUNTING : FLUSH       |                   | NEMA 3R       |           | BUS RATING : 200 AMP            |   |   |          |           |             |                   |                        |
| LOCATION : 1ST FL EAST |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |                        |
| DESCRIPTION            | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION            |
| NEW GFI BATH           | #12-1/2"          | (1)           | 1         | 20                              |   |   | 1a       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| SPARE                  |                   | 2500          | 2         | 20                              |   |   | 1b       | 1         | 100         | EXISTING          | RM 101 LT & REC.       |
| SPARE                  |                   |               | 3         | 20                              |   |   | 3a       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| SPARE                  |                   |               | 4         | 20                              |   |   | 3b       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| RM 109 LT & REC.       | EXISTING          | 100           | 1         | 20                              |   |   | 5a       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| RM 109/110 LT & REC.   | EXISTING          | 100           | 1         | 20                              |   |   | 5b       | 1         | 100         | EXISTING          | RM 108/109 LT & REC.   |
| EXISTING LIGHTING LOAD | EXISTING          | 100           | 1         | 20                              |   |   | 7a       | 1         | 100         | EXISTING          | RM 109 REC.            |
| EXISTING LIGHTING LOAD | EXISTING          | 100           | 1         | 20                              |   |   | 7b       | 1         | 100         | EXISTING          | SPARE                  |
| EXISTING LIGHTING LOAD | EXISTING          | 100           | 1         | 20                              |   |   | 9a       | 1         | 100         | EXISTING          | RM 105 REC.            |
| CORRIDOR 1ST FL        | EXISTING          | 100           | 1         | 20                              |   |   | 9b       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| AHU-3                  | EXISTING          | 4200          | 11        |                                 |   |   | 11       | 11        |             |                   |                        |
| SPARE                  |                   | 1500          | 1         | 20                              |   |   | 15a      | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| EXISTING LOAD          | EXISTING          | 1500          | 2         | 20                              |   |   | 15b      | 1         | 100         | EXISTING          | OFFICE REC.            |
| AHU-2                  | EXISTING          | 2500          | 2         | 20                              |   |   | 17a      | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
|                        |                   |               |           |                                 |   |   | 17b      | 1         | 100         | EXISTING          | OFFICE LTS             |
|                        |                   |               |           |                                 |   |   | 19       | 1         | 100         | #12-1/2"          | GFI BATH REC.          |

**LOAD CALCULATION PANEL '1E'**  
CONTINUOUS LOAD AT 125% = 2000 VA X 1.25 = 2510 VA  
NON CONTINUOUS LOAD AT 100% = 24000 VA  
TOTAL DEMANDED LOAD = 26510 VA  
TOTAL DEMAND AMPS = 110 AMPS PER PHASE

| EXISTING PANEL '2W'                |                   |               |           |                                 |   |   |          |           |             |                   |               |
|------------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|---------------|
| TYPE : EXISTING                    |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |               |
| MOUNTING : FLUSH                   |                   | NEMA 3R       |           | BUS RATING : 125 AMP            |   |   |          |           |             |                   |               |
| LOCATION : CORRIDOR 2ND FLOOR WEST |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |               |
| DESCRIPTION                        | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION   |
| AHU-6                              | EXISTING          | 8150          | 1         | 100                             |   |   | 1        | 1         | 100         | EXISTING          | EXISTING LOAD |
| NEW GFI BATH REC.                  | #12-1/2"          | 100           | 1         | 20                              |   |   | 5a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1800          | 2         | 20                              |   |   | 5b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1800          | 30        | 20                              |   |   | 7a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1800          | 1         | 20                              |   |   | 7b       | 1         | 100         | EXISTING          | EXISTING LOAD |

**LOAD CALCULATION PANEL '2W'**  
CONTINUOUS LOAD AT 125% = 500 VA X 1.25 = 625 VA  
NON CONTINUOUS LOAD AT 100% = 13600 VA  
TOTAL DEMANDED LOAD = 14225 VA  
TOTAL DEMAND AMPS = 59 AMPS PER PHASE

| EXISTING PANEL '2E'           |                   |               |           |                                 |   |   |          |           |             |                   |                        |
|-------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|------------------------|
| TYPE : EXISTING               |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |                        |
| MOUNTING : FLUSH              |                   | NEMA 3R       |           | BUS RATING : 200 AMP            |   |   |          |           |             |                   |                        |
| LOCATION : CORRIDOR 2ND FLOOR |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |                        |
| DESCRIPTION                   | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION            |
| RM 104 LTS.                   | EXISTING          | 100           | 1         | 20                              |   |   | 1a       | 1         | 100         | EXISTING          | SUB PANEL '2W'         |
| RM 211 LT & REC.              | EXISTING          | 100           | 1         | 20                              |   |   | 1b       | 1         | 100         | EXISTING          |                        |
| RM 207 LT & REC.              | EXISTING          | 100           | 1         | 20                              |   |   | 3a       | 1         | 100         | EXISTING          |                        |
| RM 225/226 LT & REC.          | EXISTING          | 100           | 1         | 20                              |   |   | 3b       | 1         | 100         | EXISTING          |                        |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 5a       | 1         | 100         | EXISTING          | RM 210 LT & REC.       |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 5b       | 1         | 100         | EXISTING          | RM 218 LT & REC.       |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 7a       | 1         | 100         | EXISTING          | RM 203 LT & REC.       |
| RM 218 LT & REC.              | EXISTING          | 100           | 1         | 15                              |   |   | 7b       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| BATH LTS.                     | EXISTING          | 100           | 1         | 15                              |   |   | 9a       | 1         | 100         | #12-1/2"          | NEW GFI BATH           |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 9b       | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 11a      | 1         | 100         | EXISTING          | RM 205/206 LT & REC.   |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 11b      | 1         | 100         | EXISTING          | RM 206 LT & REC.       |
| RM 204/109 LT & REC.          | EXISTING          | 100           | 1         | 15                              |   |   | 13a      | 1         | 100         | EXISTING          | RM 218/STORAGE         |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 13b      | 1         | 100         | EXISTING          | RM 219/STORAGE         |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 15a      | 1         | 100         | EXISTING          | RM 219 REC.            |
| EXISTING LIGHTING LOAD        | EXISTING          | 100           | 1         | 15                              |   |   | 15b      | 1         | 100         | EXISTING          | RM 215 LT & REC.       |
| NEW GFI BATH                  | #12-1/2"          | 100           | 1         | 20                              |   |   | 17a      | 1         | 100         | EXISTING          | RM 222/223 LT & REC.   |
| EXISTING LIGHTING LOAD        | EXISTING          | 1800          | 1         | 30                              |   |   | 17b      | 1         | 100         | EXISTING          | RM 221 LT & REC.       |
| RM 103 LT & REC.              | EXISTING          | 1800          | 1         | 30                              |   |   | 19a      | 1         | 100         | EXISTING          | CORRIDOR 2ND FL        |
| NEW GFI BATH                  | #12-1/2"          | 100           | 1         | 20                              |   |   | 19b      | 1         | 100         | EXISTING          | EXISTING LIGHTING LOAD |

**LOAD CALCULATION PANEL '2E'**  
CONTINUOUS LOAD AT 125% = 3300 VA X 1.25 = 4125 VA  
NON CONTINUOUS LOAD AT 100% = 17825 VA  
TOTAL DEMANDED LOAD = 21950 VA  
TOTAL DEMAND AMPS = 91 AMPS PER PHASE

| EXISTING PANEL 'A'                 |                   |               |           |                                 |   |   |          |           |             |                   |               |
|------------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|---------------|
| TYPE : EXISTING                    |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |               |
| MOUNTING : FLUSH                   |                   | NEMA 3R       |           | BUS RATING : 125 AMP            |   |   |          |           |             |                   |               |
| LOCATION : OUTSIDE SOUTH WALL ESAT |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |               |
| DESCRIPTION                        | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION   |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 1a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 1b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 3a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 3b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 200           | 1         | 20                              |   |   | 5        | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 2000          | 2         | 20                              |   |   | 7        | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 9        | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 11       | 1         | 100         | EXISTING          | EXISTING LOAD |

**LOAD CALCULATION PANEL 'A'**  
CONTINUOUS LOAD AT 125% = 1200 VA X 1.25 = 1500 VA  
NON CONTINUOUS LOAD AT 100% = 3200 VA  
TOTAL DEMANDED LOAD = 4700 VA  
TOTAL DEMAND AMPS = 19 AMPS PER PHASE

| EXISTING PANEL 'B'                 |                   |               |           |                                 |   |   |          |           |             |                   |               |
|------------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|---------------|
| TYPE : EXISTING                    |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |               |
| MOUNTING : SURFACE                 |                   | NEMA 3R       |           | BUS RATING : 125 AMP            |   |   |          |           |             |                   |               |
| LOCATION : OUTSIDE SOUTH WALL WEST |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |               |
| DESCRIPTION                        | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION   |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 1a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 1b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1500          | 1         | 30                              |   |   | 3a       | 1         | 100         | #8-3/4"           | NEW AHU-5     |
| EXISTING LOAD                      | EXISTING          | 1200          | 2         | 20                              |   |   | 3b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1200          | 1         | 20                              |   |   | 5a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1200          | 1         | 20                              |   |   | 5b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 1800          | 1         | 15                              |   |   | 7a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 15                              |   |   | 7b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 20                              |   |   | 9a       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 4500          | 2         | 20                              |   |   | 9b       | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 30                              |   |   | 11a      | 1         | 100         | EXISTING          | EXISTING LOAD |
| EXISTING LOAD                      | EXISTING          | 100           | 1         | 30                              |   |   | 11b      | 1         | 100         | EXISTING          | EXISTING LOAD |
| A/C-1                              | EXISTING          | 4500          | 50        | 11a                             |   |   |          |           | 4400        | EXISTING          | CU-5          |

**LOAD CALCULATION PANEL 'B'**  
CONTINUOUS LOAD AT 125% = 600 VA X 1.25 = 750 VA  
NON CONTINUOUS LOAD AT 100% = 22950 VA  
TOTAL DEMANDED LOAD = 23700 VA  
TOTAL DEMAND AMPS = 98 AMPS PER PHASE

**PANELS NOTES:**

- ELECTRICAL CONTRACTOR SHALL VERIFY THE SIZE OF EACH BRANCH CIRCUIT CONDUCTOR, IN EACH PANEL, TO BE SURE IT IS THE ADEQUATE FOR THE CORRESPONDENT BREAKER SIZE.
- ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUIT IN EACH PANEL AND UPDATE THE CIRCUIT DIRECTORY LIST.

| NEW PANEL 'L'      |                   |               |           |                                 |   |   |          |           |             |                   |              |
|--------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|--------------|
| TYPE : AQ, G.E.    |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |              |
| MOUNTING : SURFACE |                   | NEMA 3R       |           | BUS RATING : 100 AMP            |   |   |          |           |             |                   |              |
| LOCATION : LOUNDRY |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |              |
| DESCRIPTION        | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION  |
| LIGHTING           | #12-1/2"          | 100           | 1         | 20                              |   |   | 1        | 1         | 4500        | #10-1/2"          | DRYER        |
| SPARE              | #12-1/2"          | 1200          | 1         | 20                              |   |   | 3        | 1         | 4500        | #10-1/2"          | DRYER        |
| SPARE              | #12-1/2"          | 1200          | 1         | 20                              |   |   | 5        | 1         | 4500        | #10-1/2"          | DRYER        |
| MEN SHOWER LTS.    | #12-1/2"          | 100           | 1         | 20                              |   |   | 7        | 1         | 360         | #12-1/2"          | ROOF RECEPT. |
| MEN SHOWER GFI     | #12-1/2"          | 100           | 1         | 20                              |   |   | 9        | 1         | 300         | #12-1/2"          | MOTOR DAMPER |
| INSTANT W.H.       | #8-3/4"           | 7200          | 2         | 40                              |   |   | 11       | 1         |             |                   |              |
|                    |                   |               |           |                                 |   |   | 13       | 1         |             |                   |              |
|                    |                   |               |           |                                 |   |   | 15       | 1         |             |                   |              |
|                    |                   |               |           |                                 |   |   | 17       | 1         |             |                   |              |

**LOAD CALCULATION PANEL 'L'**  
CONTINUOUS LOAD AT 125% = 0 VA X 1.25 = 0 VA  
NON CONTINUOUS LOAD AT 100% = 11760 VA  
TOTAL DEMANDED LOAD = 11760 VA  
TOTAL DEMAND AMPS = 49 AMPS PER PHASE

| NEW PANEL 'EM' BUILT-IN GENERATOR |                   |               |           |                                 |   |   |          |           |             |                   |                  |
|-----------------------------------|-------------------|---------------|-----------|---------------------------------|---|---|----------|-----------|-------------|-------------------|------------------|
| TYPE : AQ, G.E. (OR EQUIVALENT)   |                   | 10,000 A.I.C. |           | MAINS : M.L.O.                  |   |   |          |           |             |                   |                  |
| MOUNTING : SURFACE                |                   | NEMA 3R       |           | BUS RATING : 100 AMP            |   |   |          |           |             |                   |                  |
| LOCATION : EXTERIOR WALL          |                   |               |           | VOLTAGE : 120/240V-1PHASE-3WIRE |   |   |          |           |             |                   |                  |
| DESCRIPTION                       | WIRE & COND. SIZE | LOAD (V.A.)   | POLE TRIP | CKT. No.                        | A | B | CKT. No. | POLE TRIP | LOAD (V.A.) | WIRE & COND. SIZE | DESCRIPTION      |
| EF-1                              | #12-1/2"          | 1176          | 1         | 20                              |   |   | 1        | 1         | 50          | #14-1/2"          | MOTORIZED DAMPER |
| SPACE                             |                   |               |           |                                 |   |   | 3        | 1         |             |                   | SPACE            |
| SPACE                             |                   |               |           |                                 |   |   | 4        | 1         |             |                   | SPACE            |
| SPACE                             |                   |               |           |                                 |   |   | 6        | 1         |             |                   | SPACE            |
| SPACE                             |                   |               |           |                                 |   |   | 8        | 1         |             |                   | SPACE            |

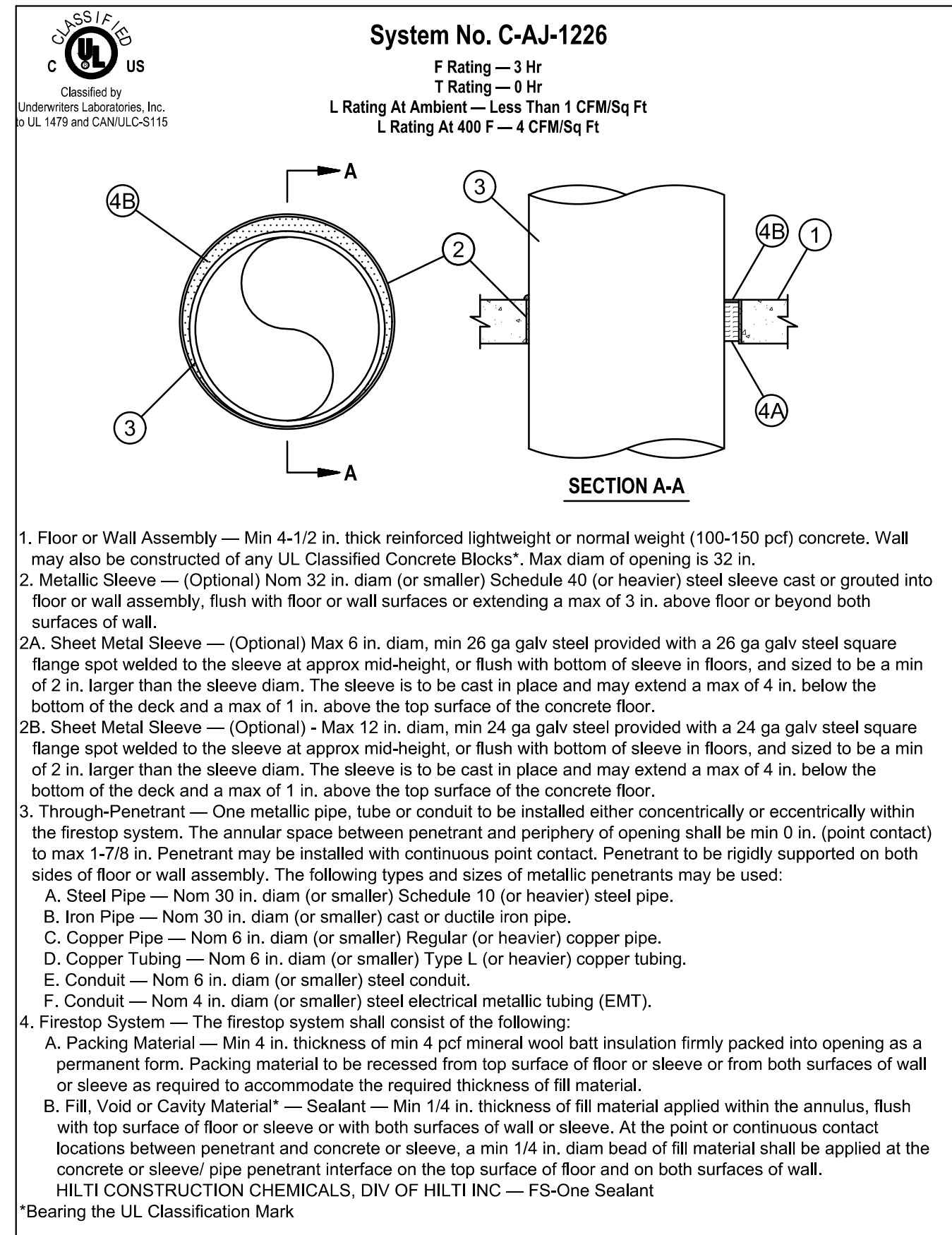
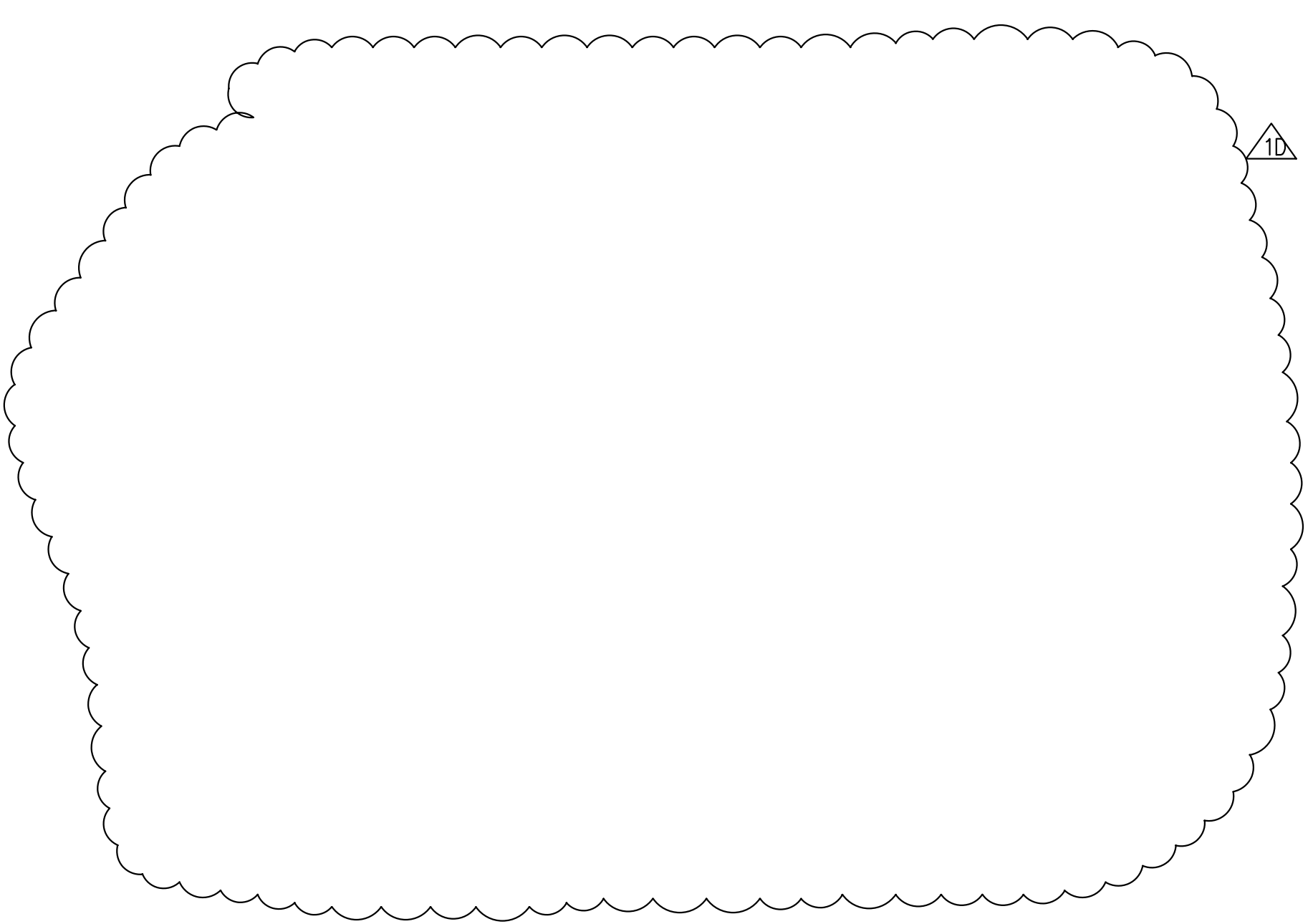
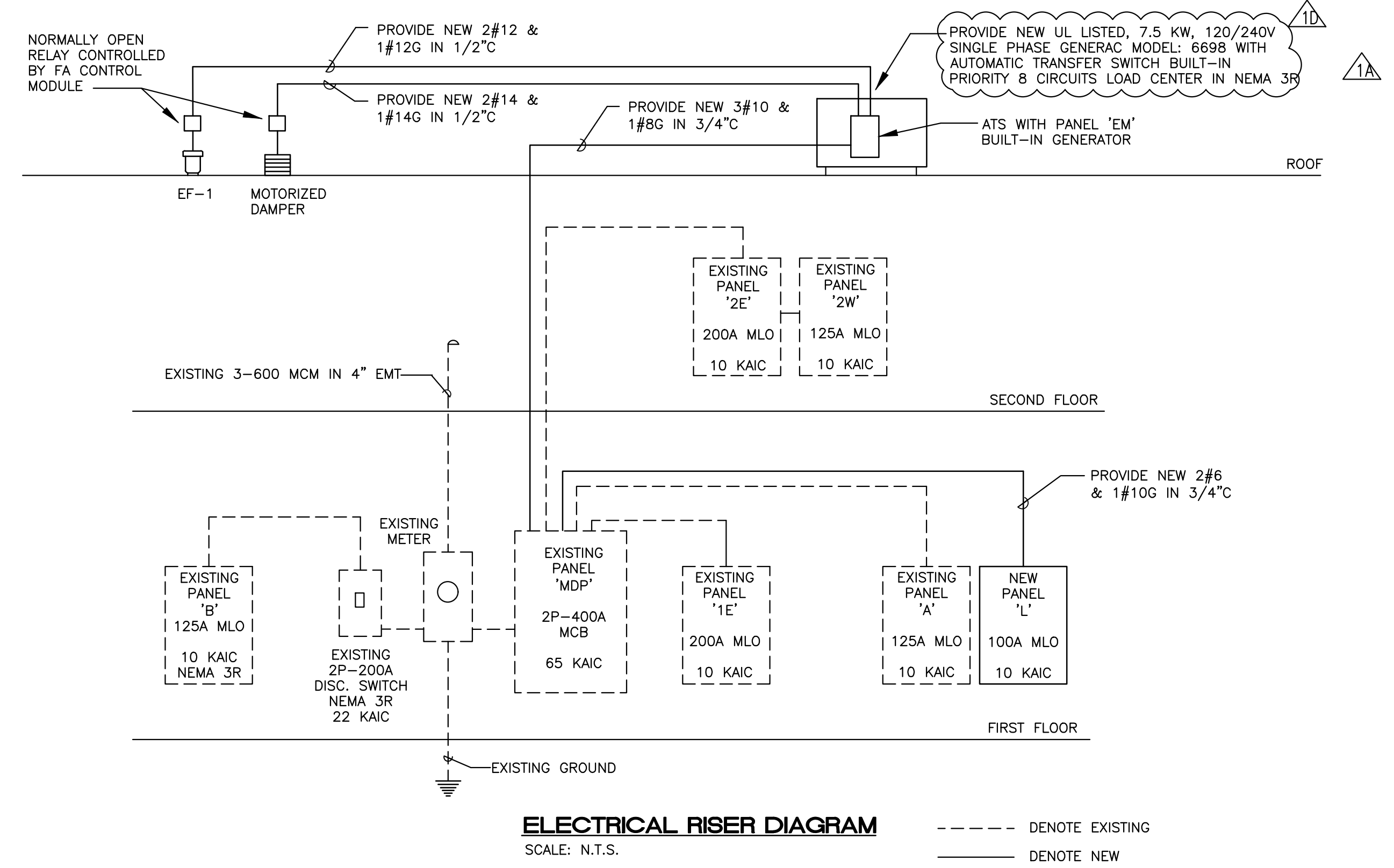
**LOAD CALCULATION PANEL 'EM'**  
CONTINUOUS LOAD AT 125% = 0 VA X 1.25 = 0 VA  
NON CONTINUOUS LOAD AT 100% = 1226 VA  
TOTAL DEMANDED LOAD = 1226 VA  
TOTAL DEMAND AMPS = 5 AMPS PER PHASE

**Ricardo N Lopez**  
Digitally signed by Ricardo N Lopez  
Date: 2021.04.28  
08:35:32 -04'00'

**RICARDO LOPEZ, PE**  
CONSULTING ENGINEER  
3461 SE 1st STREET  
HOMESTEAD  
FLORIDA 33033  
TEL. 786

**ELECTRICAL GENERAL NOTES**

- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION PER CODE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
- ALL MATERIAL SHALL BE NEW AND SHALL BEAR UL LABEL WHERE APPLICABLE. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION. ALL MOUNTING HARDWARE AND WIRING HARDWARE SHALL BE FURNISHED BY THE CONTRACTOR.
- CIRCUITS SHOWN ON THESE PLANS ARE SYMBOLICALLY SHOWN TO DETERMINE LOAD DATA AND EQUIPMENT SIZES. THE CONTRACTOR SHALL PHYSICALLY PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS. THE LOADS SHALL BE BALANCED THROUGHOUT. THE CONTRACTOR SHALL ENSURE THAT NEUTRAL WIRES AND EQUIPMENT GROUND WIRES ARE INSTALLED WHERE EVER APPLICABLE.
- THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY TO OBTAIN PERMANENT POWER IN ACCORDANCE WITH THESE DRAWINGS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE POWER UTILITY TO SCHEDULE THE INSTALLATION OF PERMANENT POWER SO THAT DELAYS ARE AVOIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER UTILITY EARLY ON TO IDENTIFY ANY ISSUES AFFECTING PERMANENT POWER SERVICE AND TO WORK TOWARDS RESOLVING ANY ISSUES REGARDING PERMANENT SERVICE.
- IF ANY OR ALL OF THE UTILITIES (ELECTRICAL, TELEPHONE, CATV) ARE EXISTING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE EXISTING SYSTEMS PRIOR TO BID. THE CONTRACTOR SHALL TRACE DOWN ALL CIRCUITS AND WIRING AND SHALL VERIFY THAT CAPACITY IS AVAILABLE FOR THE SCOPE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT ANY EQUIPMENT, WIRING ETC. THAT IS REUSED AND SHALL GUARANTEE THE PERFORMANCE OF SUCH EQUIPMENT FOR ONE YEAR. THE CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT IS DAMAGED OR IN POOR CONDITION. A LIST OF EQUIPMENT IDENTIFIED FOR REPLACEMENT SHALL BE PROVIDED TO THE OWNER (OR THE OWNER'S REPRESENTATIVE) AND THE ENGINEER PRIOR TO REPLACEMENT.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE DRAWINGS AND SHALL VISIT AND BECOME FAMILIAR WITH THE JOB SITE AND ALL EXISTING CONDITIONS PRIOR TO BID. ANY QUESTIONS, COMMENTS, DISCREPANCIES OR PERCEIVED AMBIGUITIES SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO BID.
- ELECTRICAL DESIGN IS BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL PIECES OF EQUIPMENT PRIOR TO ROUGH ELECTRICAL WIRING. THE CONTRACTOR SHALL CHECK ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMP RATING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO ANY FIELD ADJUSTMENTS.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL PANELS SHALL BE CLEARLY LABELED ON THE OUTSIDE FOR QUICK AND EASY IDENTIFICATION. ALL CIRCUITS IN ALL PANELS SHALL BE CLEARLY IDENTIFIED AND SHALL APPEAR WITH COMPLETE INFORMATION (DESCRIPTION OF CIRCUIT, BREAKER SIZE, NUMBER OF POLES AND BREAKER POSITION NUMBERS) ON THE PANEL DIRECTORIES. IN ADDITION, THE VOLTAGE, PHASE AND AMP RATING OF THE PANEL SHALL CLEARLY BE IDENTIFIED ON THE INSIDE DOOR. THE ABOVE APPLIES FOR ANY AND ALL EXISTING TO REMAIN PANEL BOARDS AND CIRCUITS.
- PLANS SHOWING AS-BUILT CHANGES SHALL BE DELIVERED TO THE OWNERS REPRESENTATIVE UPON COMPLETION OF WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE THIS INSTALLATION IN COMPLIANCE WITH ALL FIRE PREVENTION CODES SUPERSEDING ALL DRAWINGS, SPECIFICATIONS AND NOTES. THE CONTRACTOR SHALL COMMUNICATE AND COORDINATE WITH THE FIRE MARSHAL AND SHALL PROVIDE ALL NECESSARY INFORMATION NEEDED TO SATISFY THAT LIFE SAFETY SYSTEMS ARE TO LOCAL CODE ACCEPTANCE.
- ALL SERVICE ENTRANCE EQUIPMENT IS TO BE RATED AT 100,000 AIC UNLESS OTHERWISE NOTED. TO PROVIDE SERVICE ENTRANCE EQUIPMENT WITH LOWER RATINGS THE CONTRACTOR SHALL PROVIDE IN WRITING INFORMATION FROM THE POWER UTILITY VERIFYING THAT CALCULATED FAULT CURRENTS ARE AT AN ACCEPTABLE LEVEL TO ACCOMMODATE THE LOWER RATED EQUIPMENT. IF SERVICE ENTRANCE EQUIPMENT IS EXISTING, THE CONTRACTOR SHALL VERIFY THAT AIC RATINGS OF EXISTING EQUIPMENT ARE PROPER. THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY AND THE ENGINEER PRIOR TO BID.
- ALL OUTSIDE EQUIPMENT, OUTLETS, LIGHTING FIXTURES, ENCLOSURES, ETC. SHALL BE WEATHERPROOF.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS FOR ALL OTHER TRADES.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTRACT.
- THE NUMBER, EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS, LIGHTS AND ELECTRICAL FIXTURES SHALL BE DETERMINED BY THE OWNER AND ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL NUMBERS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO BID AND TO INSTALLATION
- THE CONTRACTOR SHALL PROVIDE ROUTING FOR ALL FLOOR MOUNTED OUTLETS AND OTHER LOADS AND CONNECTIONS NOT READILY ACCESSIBLE VIA WALL OR CEILING. THE CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO DETERMINE THE METHOD TO SERVE SUCH AREAS (I.E. TRENCHING, CORE AND BORING, POWER POLE, ETC.) PRIOR TO BID.
- ALL RACEWAYS AND PIPES PLACED IN OR THROUGH ANY CONCRETE SLAB SHALL BE SPACED A MINIMUM OF THREE DIAMETERS OF THE LARGEST CONDUIT OR PIPE OF ANY OTHER SERVICE.
- ALL RACEWAYS UNDERGROUND AND/OR LARGER THAN 2 INCHES IN DIAMETER SHALL BE GALVANIZED RIGID STEEL. PVC SCH 40 WILL BE ACCEPTABLE IF APPROVED BY LOCAL REGULATIONS CONTRACTOR TO VERIFY. ALL OTHER RACEWAYS 2" AND SMALLER IN DIAMETER MAY BE EMT.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS AND GALV ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS.
- DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK, IN NEMA 1 OR NEMA 3R ENCLOSURES AS REQUIRED BY EXPOSURE.
- THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED PER NEC REQUIREMENTS AND STATE AND LOCAL CODE REQUIREMENTS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. ACCEPTANCE BY ENGINEER/ARCHITECT MUST BE A CONDITION OF THE CONTRACT.
- IT IS NOT THE INTENTION OF THESE DRAWINGS TO ESTABLISH LIGHTING LEVELS OF ANY KIND. THE NUMBER, STYLE AND LOCATION OF LIGHTING FIXTURES ARE DETERMINED BY THE ARCHITECT AND/OR THE OWNER. THE LIGHTING FIXTURE SCHEDULE IF APPEARING ON THESE DRAWINGS IS FOR INFORMATIONAL PURPOSES AND HAS BEEN DEVELOPED BY THE ARCHITECT AND/OR OWNER. FOR DETAILED QUESTIONS REGARDING LIGHTING FIXTURES CONTACT THE ARCHITECT OR OWNER.
- EXISTING LIGHTING FIXTURES WHEN REUSED ARE TO BE RECIRCUITED AND RECONNECTED. THE ARCHITECT AND/OR OWNER SHALL BE INFORMED OF AND SHALL APPROVE THE REUSE OF ALL REUSED LIGHT FIXTURES. ALL REUSED LIGHTING FIXTURES SHALL BE RELAMPED, CLEANED AND REPAIRED IF NECESSARY. ANY EXISTING LIGHTING FIXTURE BEYOND REPAIR SHALL BE REPLACED. ALL LIGHTING FIXTURES SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ELECTRICAL SERVICES TO MECHANICAL EQUIPMENT IS ACCOUNTED FOR PRIOR TO BID. IN ADDITION, ALL MECHANICAL EQUIPMENT SUBSTITUTIONS ARE TO BE ACCOUNTED FOR PRIOR TO BID AND SHALL BE COORDINATED ELECTRICALLY.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR INSTALLATION OF ALL MECHANICAL CONTROLS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FORWARD ANY SHOP DRAWINGS TO THE ARCHITECT/OWNER. SHOP DRAWINGS ARE NOT SOLICITED BY THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT FIRE STOPPING MEASURES ARE PROVIDED PER LOCAL BUILDING DEPT. REQUIREMENTS. THE FIRE STOPPING MATERIAL AND ITS INSTALLATION SHALL BE UL APPROVED. ALL FIRE STOPPING MATERIAL SHALL BE NON WATER SOLUBLE.



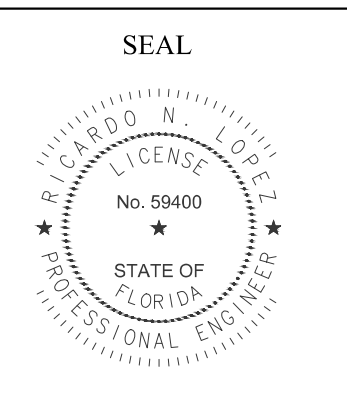
**ELECTRICAL SYMBOLS LEGEND**

| SYMBOL | DESCRIPTION  | SYMBOL    | DESCRIPTION                                 |
|--------|--|-----------|---|
| ⊙      | WALL MTD LIGHT FIXTURE   | ⊕         | ELECTRICAL JUNCTION BOX                     |
| ○      | RECESSED MOUNTED LIGHT FIXTURE                                     | □ 2-30/20 | DISCONNECT SWITCH 2=POLE, 30=FRAME, 20=FUZE |
| ⊙      | GENERAL DOWNLIGHT  | ⊕         | ELECTRICAL FAN MOTOR                        |
| ⊙      | JUNCTION BOX FOR DECORATIVE LIGHTING                               | ⊕         | ELECTRICAL PANEL                            |
| ⊙      | EXIT SIGN/EMERGENCY LIGHT COMBINATION W/ 90 MINUTES BATTERY BACKUP | GFI       | GROUND FAULT INTERRUPTION                   |
| ⊙      | EMERGENCY LIGHT W/ 90 MINUTES BATTERY BACKUP                       | WP        | WATER PROOF                                 |
| ⊙      | TOGGLE SWITCH, SINGLE POLE, 20 A OS DENOTE "OCCUPANCY SENSOR"      | C         | CONDUIT                                     |
| ⊙      | DUPLEX RECEPTACLE, 20A, 120V WALL MTD. AT 18" A.F.F.               | E         | EXISTING                                    |
| ⊙      | DUPLEX RECEPTACLE, 20A, 120V WALL MTD. AT 48" A.F.F.               | N         | NEW   |
|        |  | M         | MOTORIZED DAMPER                            |



**Ricardo N Lopez**  
Digitally signed by Ricardo N Lopez  
Date: 2021.04.28 08:36:47 -04'00'

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PE # 59400



| Rev.               | Date       | Rev. | Date |
|--------------------|------------|------|------|
| Δ NOT USED         |            |      |      |
| Δ B.D.C./ENG. REV. | 02/04/2021 |      |      |
| Δ NOT USED         |            |      |      |
| Δ ZONING COMMENT   | 04/01/2021 |      |      |
| Δ B.D.C. COMMENT   | 04/19/2021 |      |      |

**SOBE HOSTEL**  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

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Address: MIAMI BEACH, FL. 33139  
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Email: ADAM@VULTUREFUND.COM

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**Consultant:**  
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**Architect of Record:**  
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Tel: +1(305) 573 1818  
Fax: +1(305) 573 3766



KOBI KARP  
Lic. # AR0012578

**RISER, NOTES AND SYMB. LEGEND**

|         |               |           |              |
|---------|---------------|-----------|--------------|
| Date    | JUNE 08, 2020 | Sheet No. |              |
| Scale   | AS INDICATED  |           | <b>E-202</b> |
| Project | 1967          |           |              |

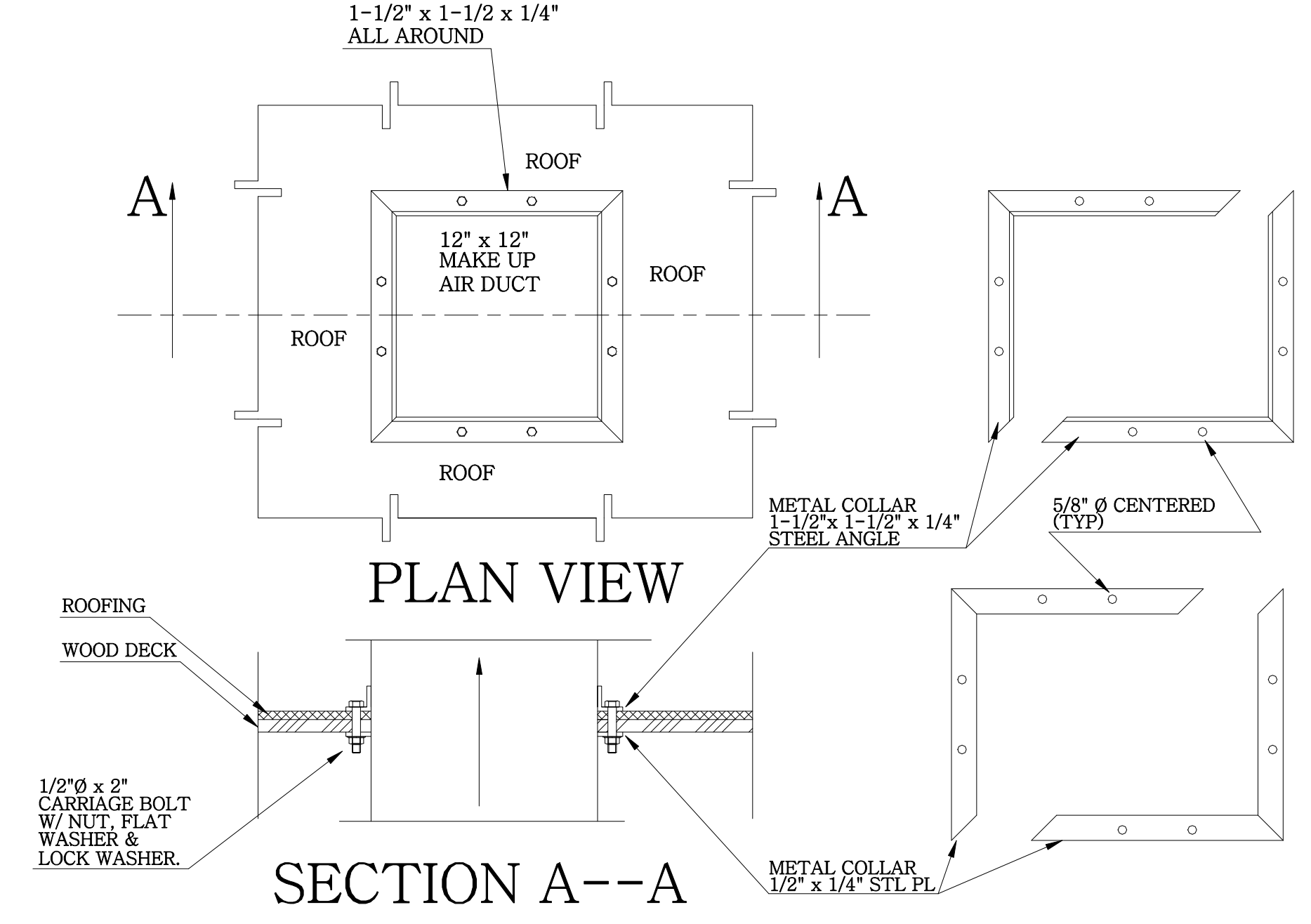
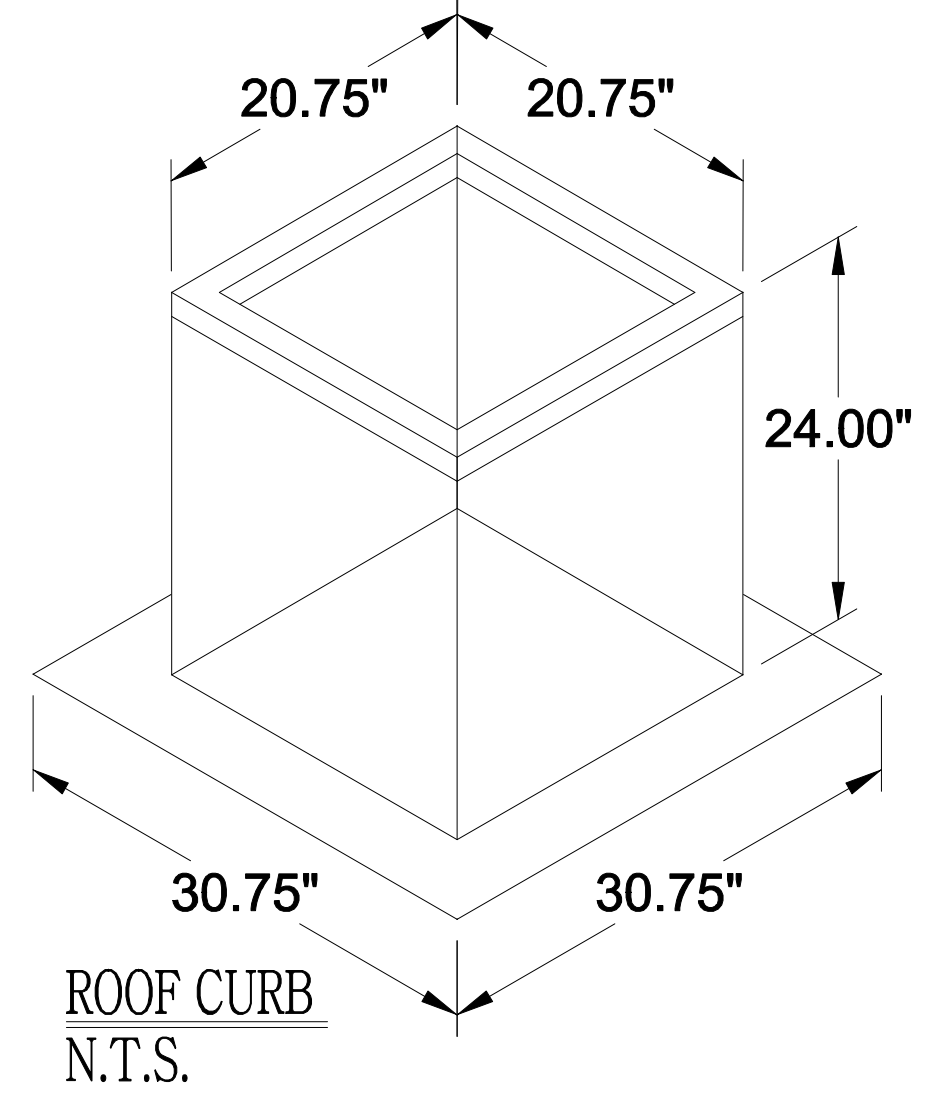
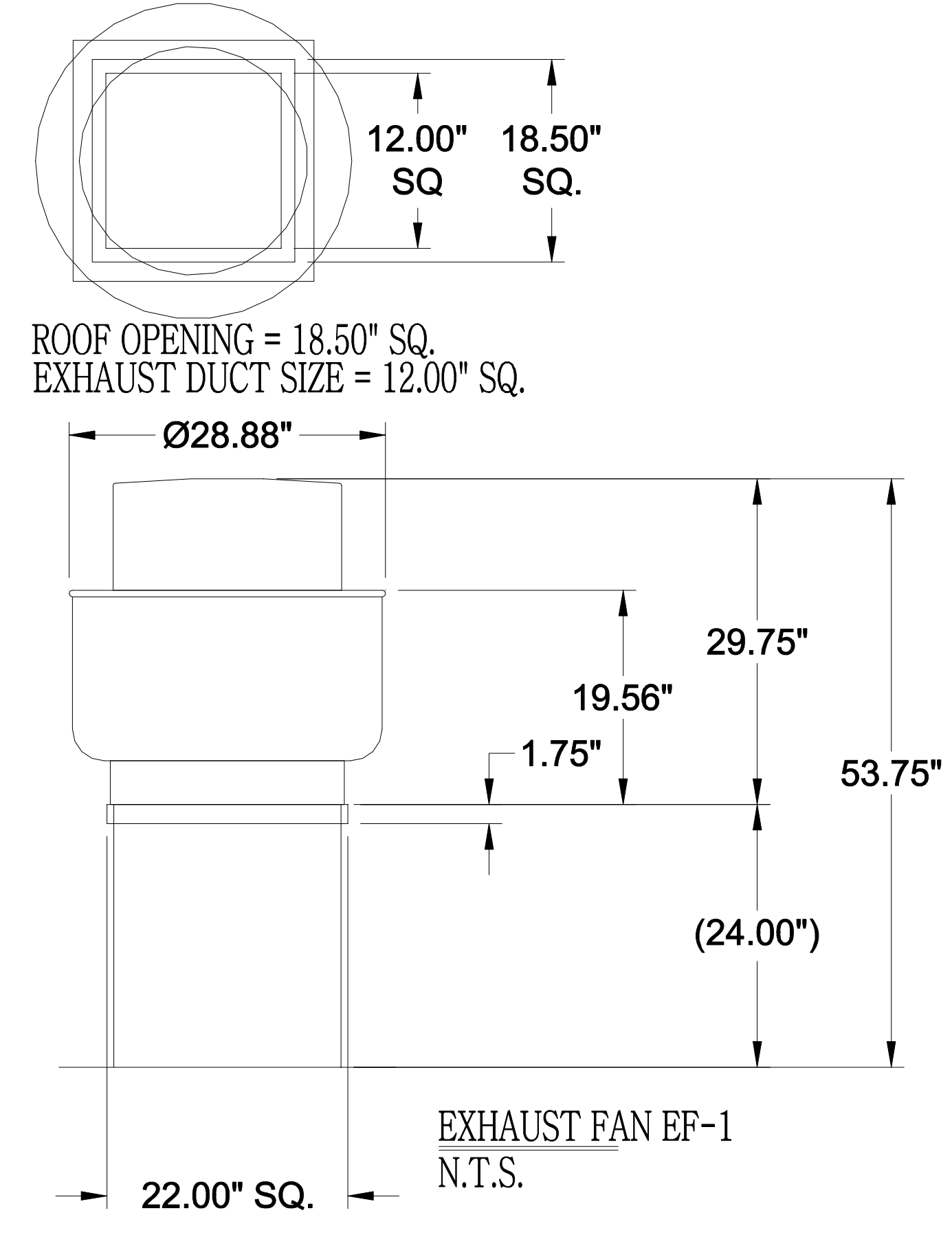


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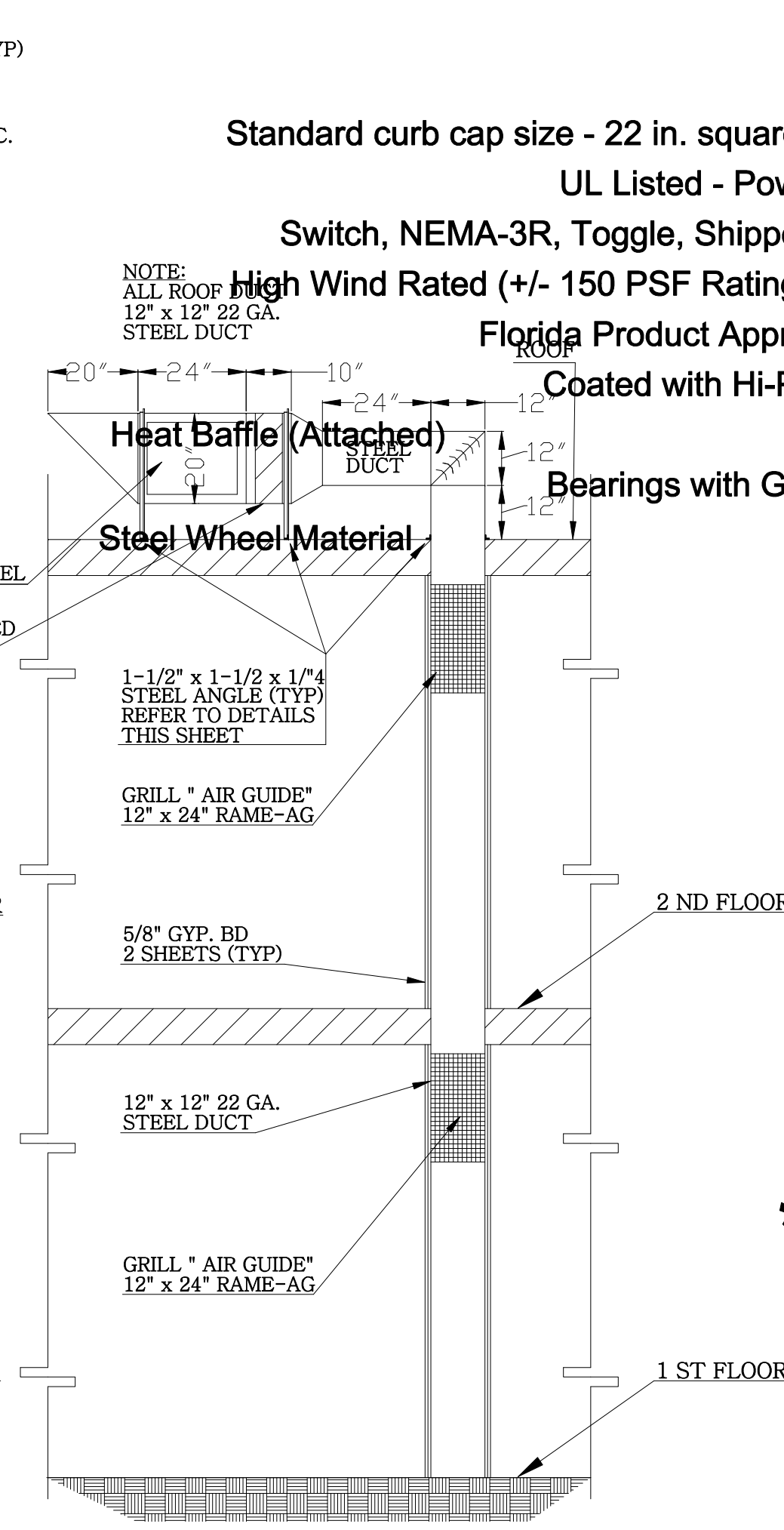
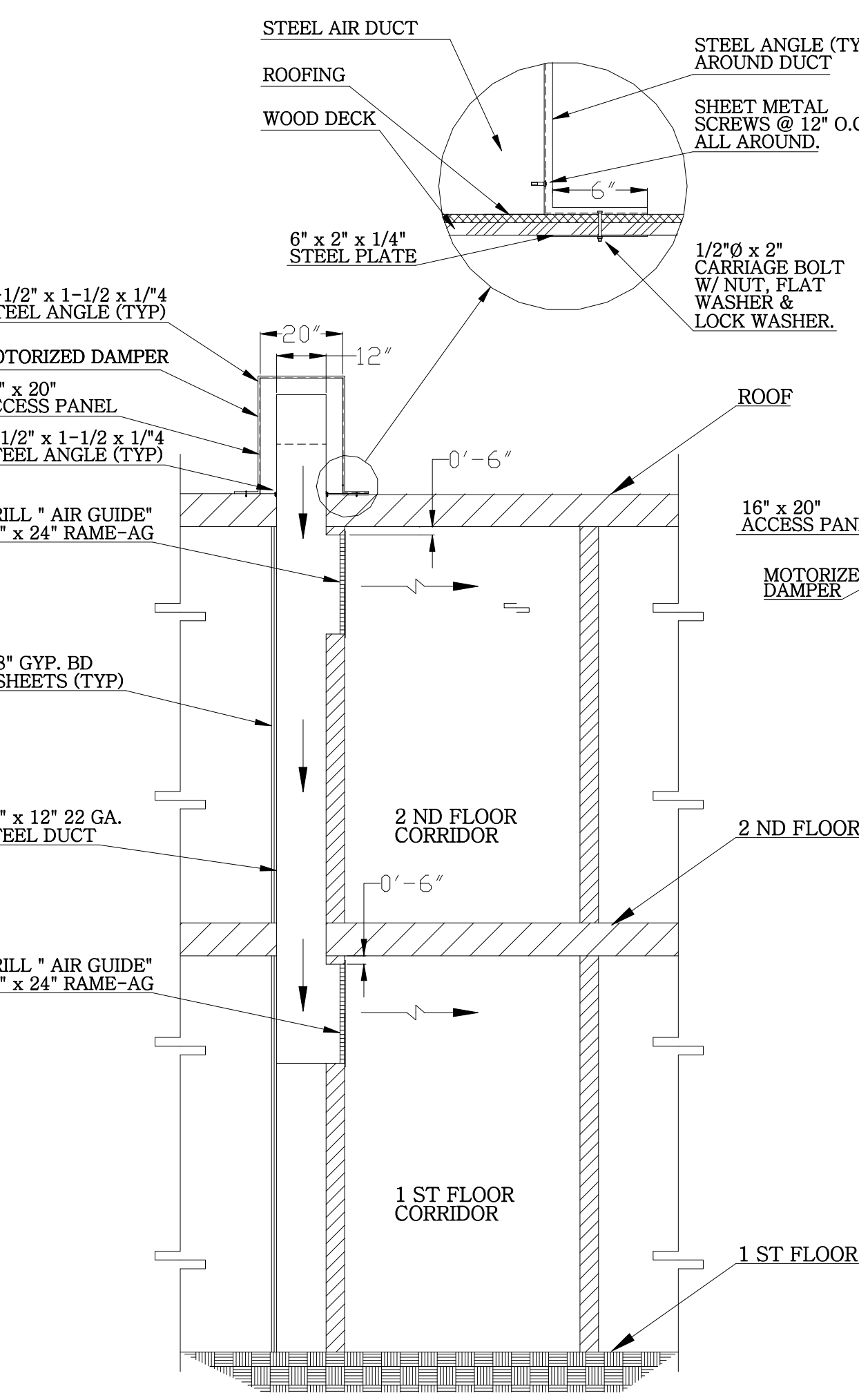
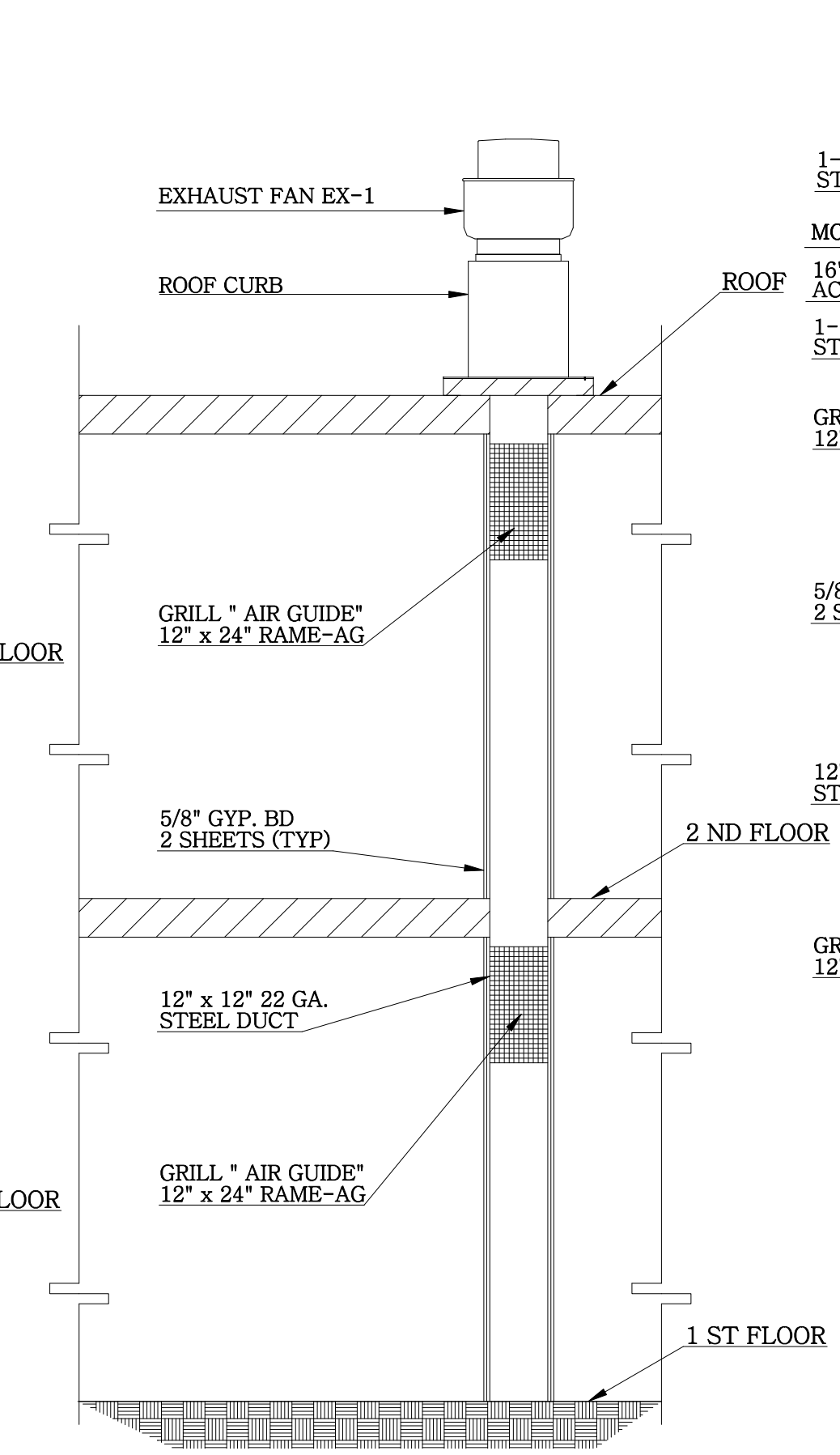
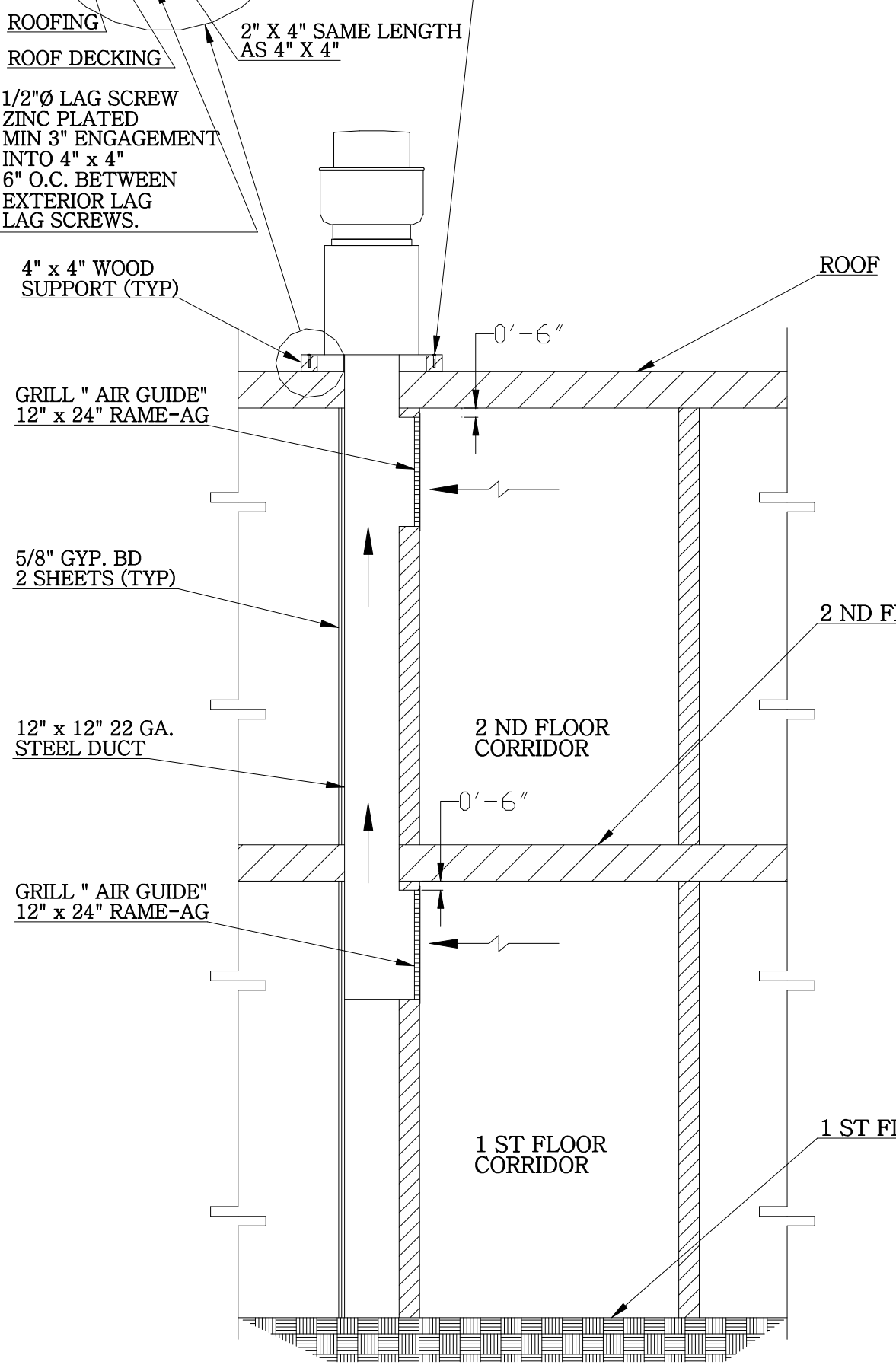
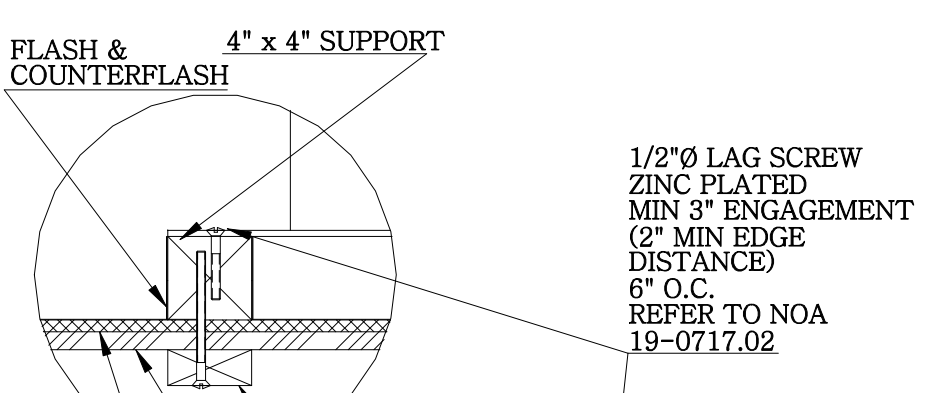
### Belt Drive Upblast Centrifugal Roof Exhaust Fan

| MARK INFORMATION |        |            | FAN INFORMATION |                           |         |                      |              | MOTOR INFORMATION |          |           |           |          |          |
|------------------|--------|------------|-----------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY              | MARK   | MODEL      | VOLUME (CFM)    | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP)         | V/C/P    | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1                | Mark 2 | CUBE-141-5 | 1,500           | 0.75                      | 1,228   | 0.39                 | 78           | 0.5               | 115/60/1 | OP        | 1725      | 1        | 9.8      |

\*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



| EXHAUST FAN                   |               |
|-------------------------------|---------------|
| <b>Dimensional</b>            |               |
| Quantity                      | 1             |
| Weight w/o Acc's (lb)         | 74 LBS        |
| Weight w/ Acc's (lb)          | 78 LBS        |
| Weight w/ Acc's and Curb (lb) | 125 LBS       |
| Max T Motor Frame Size        | 145           |
| Roof Opening (in.)            | 18.5" x 18.5" |
| <b>Performance</b>            |               |
| Volume (CFM)                  | 1,500         |
| Total External SP (in. wg)    | 0.75          |
| Fan RPM                       | 1228          |
| Operating Power (hp)          | 0.39          |
| <b>Motor</b>                  |               |
| Motor Mounted                 | Yes           |
| Size (hp)                     | 1/2           |
| Voltage/Cycle/Phase           | 115/60/1      |
| Enclosure                     | ODP           |
| Motor RPM                     | 1725          |
| Efficiency Rating             | Standard      |
| Windings                      | 1             |
| NEC FLA* (Amps)               | 9.8           |



Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square

UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)

Switch, NEMA-3R, Toggle, Shipped with Unit

High Wind Rated (+/- 150 PSF Rating)

Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02

Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc

Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

| MOTORIZED DAMPER |             |
|------------------|-------------|
| QUANTITY         | 1           |
| MFG              | DATON MFG   |
| MODEL #          | 5NKK3       |
| OPENING REQUIRED | 20" x 20"   |
| NO OF "F" PANELS | 1           |
| START            | AUTOMATIC * |
| FLANGE WIDTH     | 1/2"        |
| MATERIAL         | ALUMINUM    |
| ELEC. CHAR.      | 120/60/1    |

| STANDBY GENERATOR      |                                |
|------------------------|--------------------------------|
| QUANTITY               | 1                              |
| MFG                    | GENERAC                        |
| MODEL #                | 6998                           |
| RATED WATTS            | 7.5 KW                         |
| FUEL TYPE              | LIQUID PROPANE/<br>NATURAL GAS |
| AMPERES                | 31.25 LP/<br>25 NG             |
| START                  | AUTOMATIC                      |
| PHASE                  | SINGLE                         |
| TRANSFER SW            | YES                            |
| CIRCUITS               | 8                              |
| ELEC. CHAR.            | 240/60/1                       |
| ENCLOSURE              | STEEL/NEMA 3R                  |
| MOUNTING PAD           | ATTACHED                       |
| BATTERY REQUIRED       | YES                            |
| BATTERY INCLUDED       | NO                             |
| DIMENSIONS (L x W x H) | 36 x 27 x 36                   |
| WEIGHT                 | 280 LBS                        |

\* NORMAL STATUS: SPRING CLOSED, POWER OPEN

NORTH-SOUTH SECTION THRU EXHAUST DUCT  
N.T.S.

EAST-WEST SECTION THRU EXHAUST DUCT  
N.T.S.

NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT  
N.T.S.

EAST-WEST SECTION THRU MAKE-UP AIR DUCT  
N.T.S.

SMOKE EXHAUST  
FAN SYSTEM

PROJECT NAME

SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 18-066511  
STATE OF FLORIDA LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

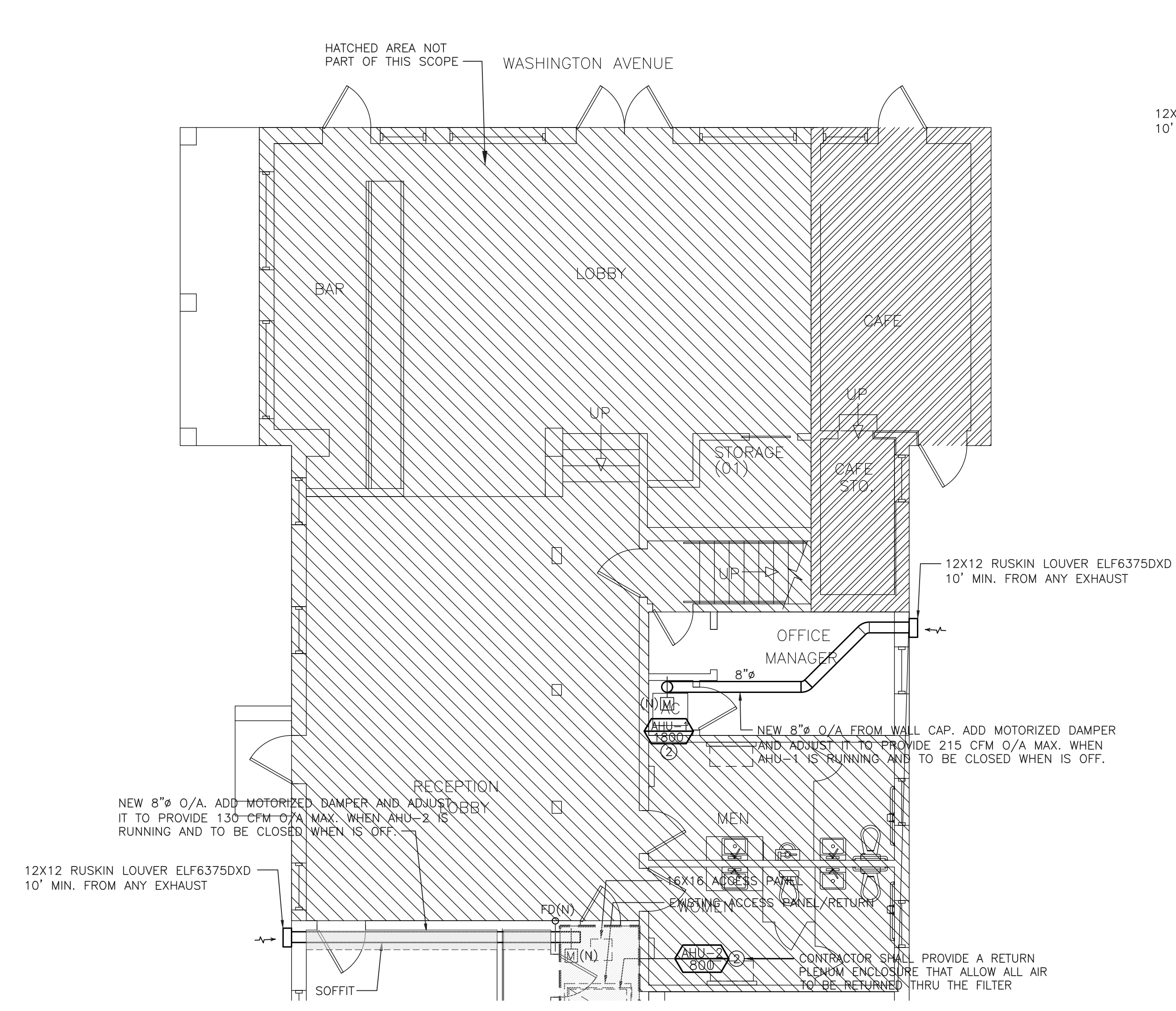
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CULPEPPER

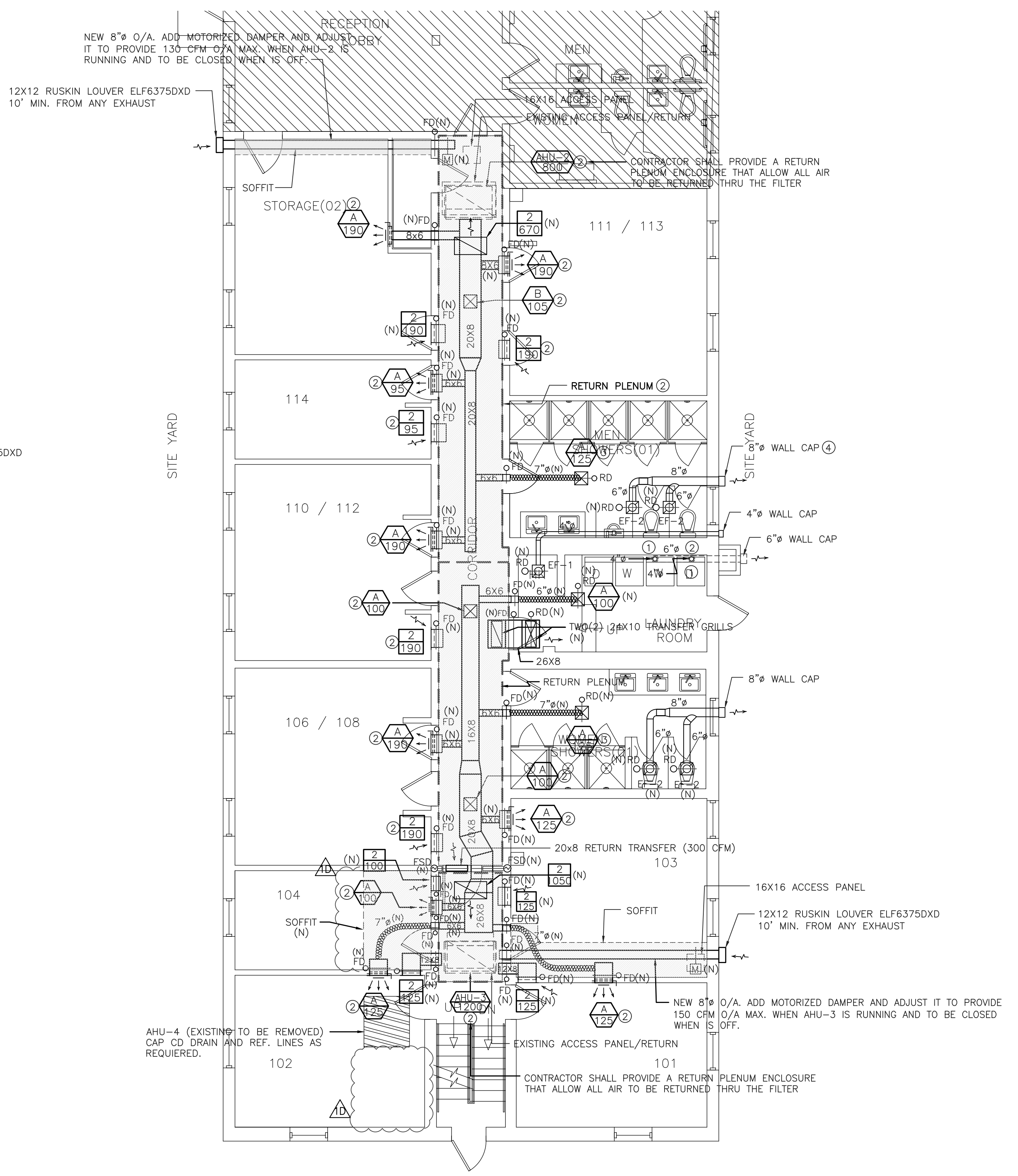
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Designed By: CEC Checked By: CEC

Sheet Title:  
DETAILS

Sheet Number:  
M-2 2 OF 2



1 LEVEL ONE - PARTIAL MECHANICAL FLOOR PLAN  
SCALE: 3/16" = 1'-0" N

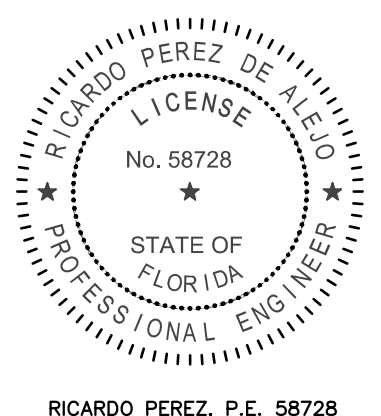


1 LEVEL ONE - PARTIAL MECHANICAL FLOOR PLAN  
SCALE: 3/16" = 1'-0" N

- DO NOT SEND THIS SET OF MECHANICAL PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.  
- BEFORE GIVING THE PRICE, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, CONDITION AND SIZE OF EXISTING SUPPLY AND RETURN GRILLS; AND THE EXACT LOCATION AND SIZE OF EXISTING SUPPLY AND RETURN DUCTWORKS. AFTER GETTING THE JOB, MAKE MODIFICATIONS AS REQUIRED ON THE SITE WITHOUT ADDITIONAL COST TO THE OWNER.

**CONSTRUCTION NOTES:**  
 ① TIE-IN TO EXISTING.  
 ② EXISTING TO REMAIN. CONTRACTOR TO VERIFY EXISTING CONDITION.  
 ③ EXISTING TO BE REPLACED FOR EXACT SIZE.  
 ④ EXISTING TO BE RELOCATED.  
 (N) NEW.  
 SOFFIT BELOW 1HR FIRE RATED CEILING.

**NOTES:**  
 1. ON THE FIRST FLOOR THE DUCTWORKS RUN INSIDE A DRYWALL PLENUM THAT WAS CREATED BELOW THE FIRE RATED CEILING. THE RETURN RUNS ALL THE WAY THROUGH THIS RETURN PLENUM. SEE ARCHITECTURAL PLANS.  
 2. 1ST FLOOR CORRIDOR WALL ARE 1 HR FIRE RATED.  
 3. PROVIDE FIRE DAMPER ON EVERY FIRE RATED DUCT PENETRATION.  
 4. ALL AIR CONDITIONERS TO BE OFF IN CASE OF FIRE EVENT. SEE FIRE ALARM PLANS.  
 5. NEW STAIRS TO CORRIDORS DOORS SHALL BE NORMALLY OPEN AND SHALL BE CLOSE IN CASE OF FIRE. NEW STAIR TO LOBBY DOOR AND EXISTING LOBBY TO FIRST FLOOR CORRIDOR DOOR SHALL BE NORMALLY CLOSED. SEE ARCHITECTURAL AND FIRE ALARM PLANS.



| Rev. | Date              | Rev.     | Date |
|------|-------------------|----------|------|
| △    | P.P.C.            | 11/23/20 |      |
| △    | B.D.C.            | 02/04/21 |      |
| △    | B.D.C.            | 03/18/21 |      |
| △    | ZONING COMMENT    | 04/01/21 |      |
| △    | B.D.C. (BUILDING) | 04/19/21 |      |

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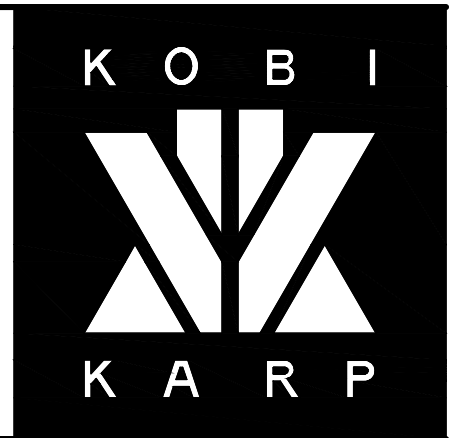
**Owner:**  
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**Consultant:**  
Name:  
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**Architect of Record:**  
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Tel: +1(305) 573 1818  
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KOBI KARP  
Lic. # AR0012578

PROPOSED MECHANICAL LEVEL 1

|         |               |           |      |
|---------|---------------|-----------|------|
| Date    | JUNE 08, 2020 | Sheet No. | M101 |
| Scale   | AS INDICATED  |           |      |
| Project | 1967          |           |      |

Ricardo Perez de Alejo  
Digitally signed by Ricardo Perez de Alejo  
Date: 2021.04.27 18:09:03 -04'00'





**SPLIT A/C UNIT SCHEDULE (R-410A) TO BE REPLACED FOR EXACT SIZE**

| AHU/CU UNIT DESIGNATION | MINIMUM SEER OR EER/PLV | GRAND TOTAL CAPACITY, MBTUH / TOTAL SENSIBLE CAPACITY, MBTUH | REF. PIPING SUCTION/LIQUID | ELECTRICAL SERVICE AVAILABLE | INDOOR UNIT        |          |                |                              |                    | OUTDOOR UNIT                 |                      |                    |                        |                        |      |           |
|-------------------------|-------------------------|--|----------------------------|------------------------------|--------------------|----------|----------------|------------------------------|--------------------|------------------------------|----------------------|--------------------|------------------------|------------------------|------|-----------|
|                         |                         |  |                            |                              | RHEEM MODEL NUMBER | LOCATION | TOTAL AIR, CFM | ENTERING AIR TEMP., °F DB/WB | DIMENSIONS (H/W/D) | FAN MOTOR FLA (NON OVERLOAD) | HEATER KW AT 230V/1Ø | RHEEM MODEL NUMBER | OPERATING WEIGHT, LBS. | AMBIENT AIR TEMP. F DB | MCA  | MAX. FUSE |
| 5                       | 13.0                    | 56.0 / 39.6  | 7/8" / 3/8"                | 208/230V 1Ø                  | RH1T6024STAN       | CLOSET   | 1800           | 80 / 67                      | 55.5/24.5/22       | 4.8                          | 5.0                  | RA1360AJ1          | 228                    | 95                     | 35.0 | 50        |
| 6                       | 13.0                    | 56.0 / 39.6  | 7/8" / 3/8"                | 208/230V 1Ø                  | RH1T6024STAN       | ATTIC    | 1800           | 80 / 67                      | 55.5/24.5/22       | 4.8                          | 5.0                  | RA1360AJ1          | 228                    | 95                     | 35.0 | 50        |

**EXISTING SPLIT A/C UNIT SCHEDULE**

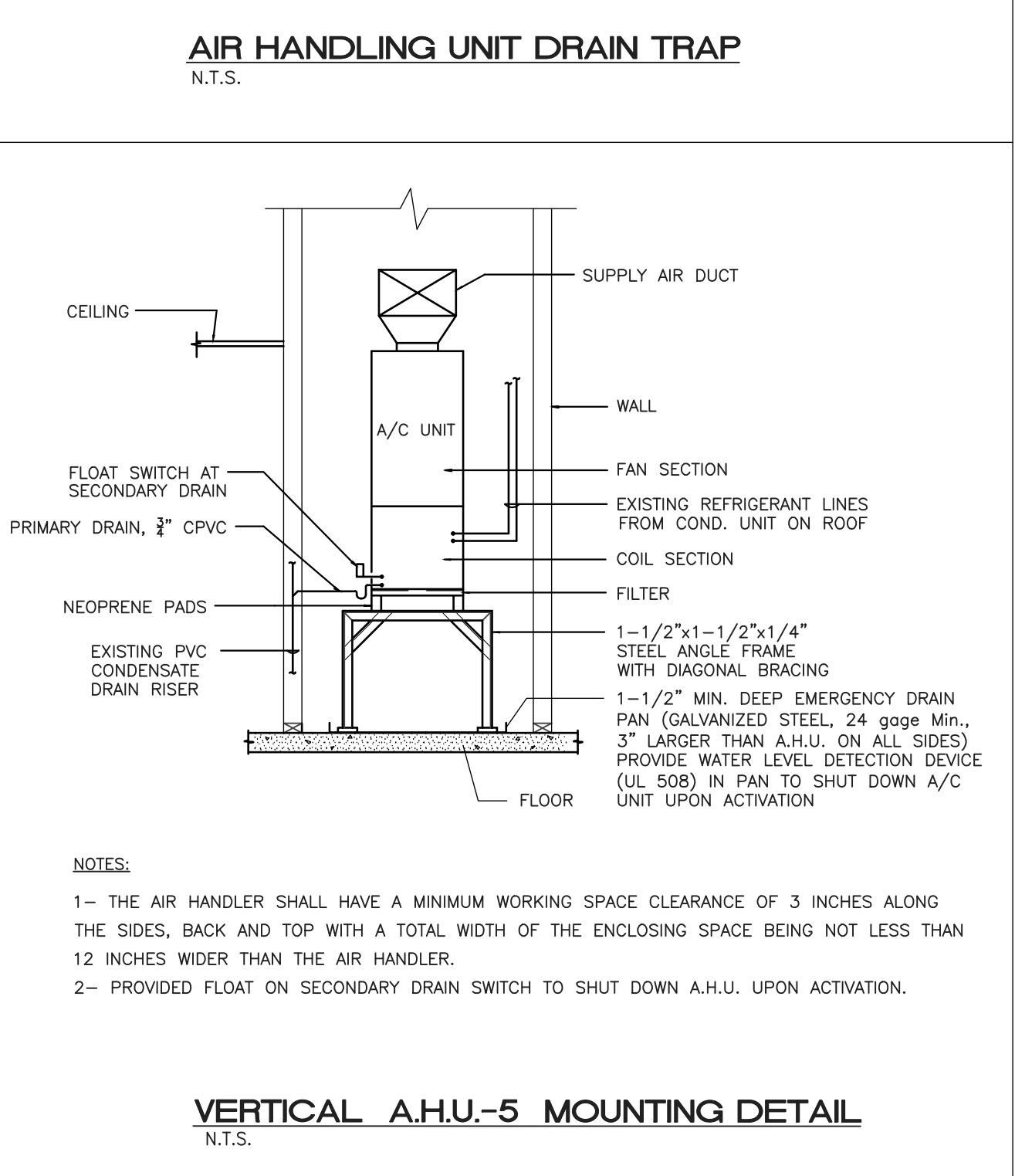
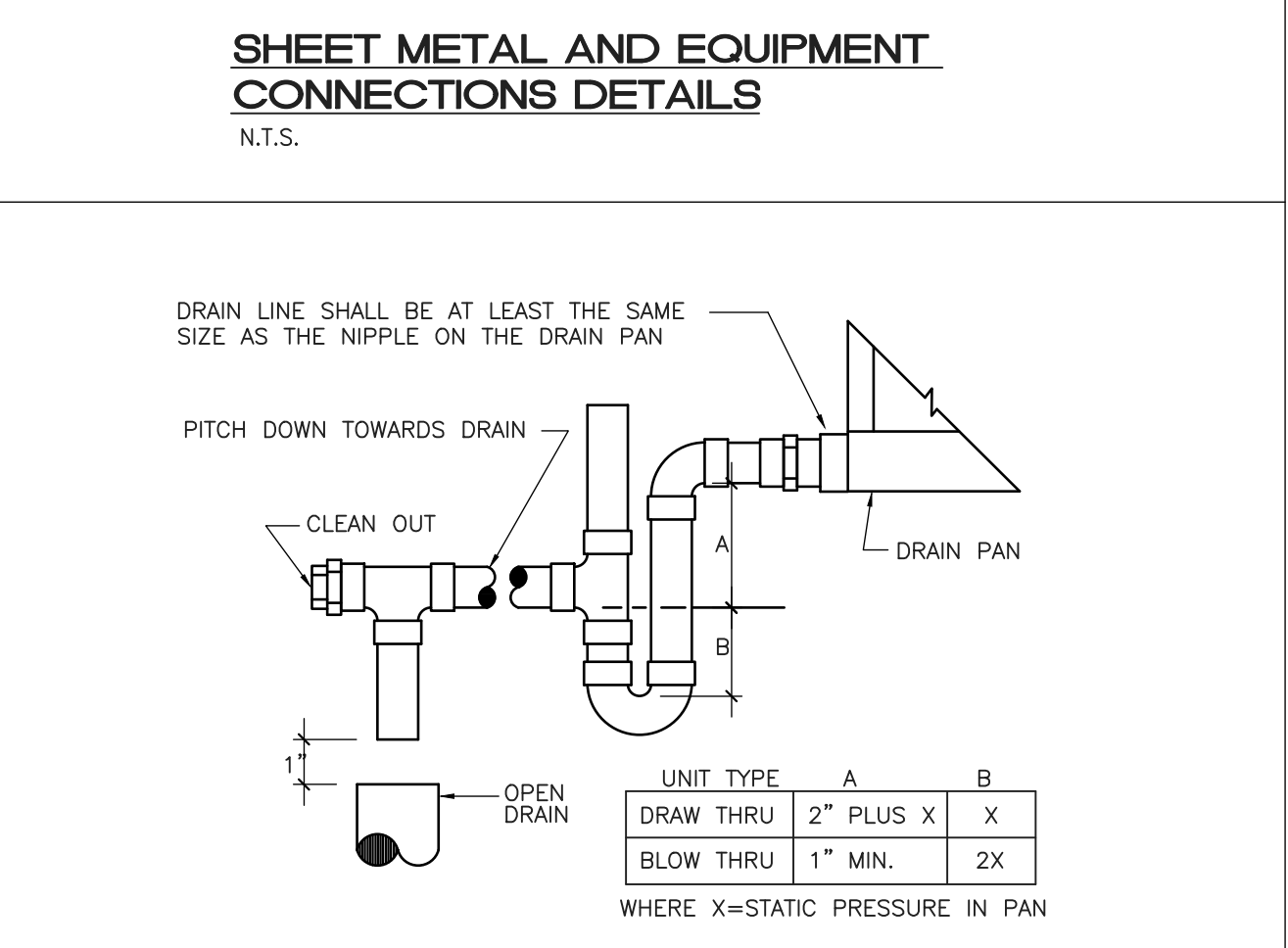
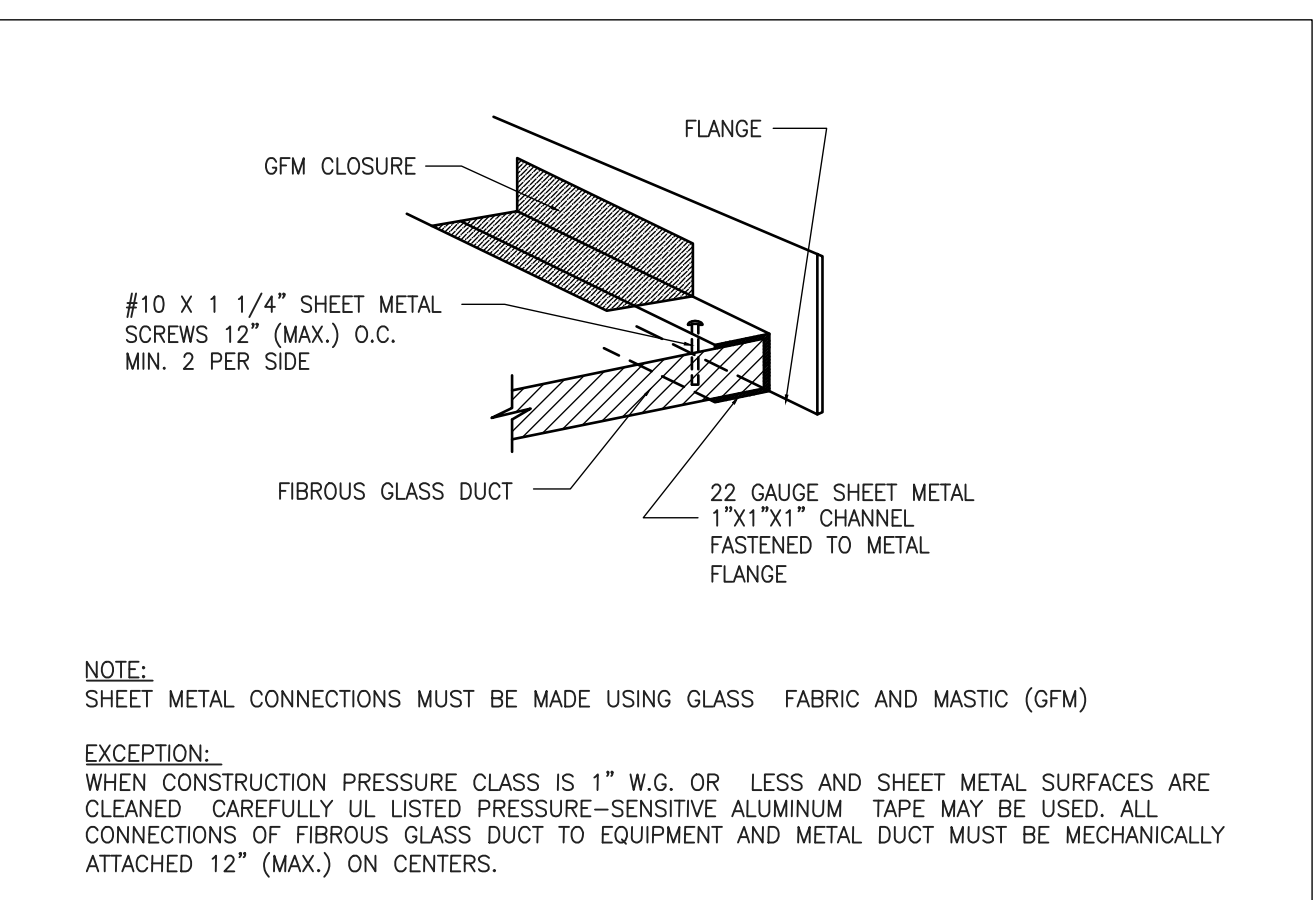
| AHU/CU UNIT DESIGNATION | MINIMUM SEER OR EER/PLV | GRAND TOTAL CAPACITY, MBTUH / TOTAL SENSIBLE CAPACITY, MBTUH | ELECTRICAL SERVICE AVAILABLE | MODEL NUMBER    | LOCATION | TOTAL AIR, CFM | ENTERING AIR TEMP., °F DB/WB | FAN MOTOR FLA (NON OVERLOAD) | HEATER KW AT 230V/1Ø | MODEL NUMBER     | AMBIENT AIR TEMP. F DB | MCA  | MAX. FUSE |
|-------------------------|-------------------------|--|------------------------------|-----------------|----------|----------------|------------------------------|------------------------------|----------------------|------------------|------------------------|------|-----------|
|                         |                         |  |                              |                 |          |                |                              |                              |                      |                  |                        |      |           |
| 2                       | 14.0                    | 22.2 / 17.3  | 208/230V 1Ø                  | FIRST CO. 25HX5 | CEILING  | 800            | 80 / 67                      | 2.0                          | 5.0                  | GOODMAN VSX14036 | 95                     | 18.7 | 30        |
| 3                       | 13.0                    | 32.8 / 26.2  | 208/230V 1Ø                  | FIRST CO. 36HX8 | CEILING  | 1200           | 80 / 67                      | 4.6                          | 8.0                  | RHEEM 13AJN30A   | 95                     | 18.7 | 30        |

**AIR DISTRIBUTION SCHEDULE**

| SYM.   | USE                 | TYPE   | MODEL NO.          | SIZE         | FLEX. DIA.        | CFM RANGE |
|--------|---------------------|--|--------------------|--------------|-------------------|-----------|
| A XXX  | SUPPLY AIR          | SINGLE DEFLECTION CEILING GRILLE ONE WAY W/ O.B.D. | TITUS MODEL 300FL  | 8x4          | AS INDICATED      | 30-75     |
|        |                     |  |                    | 8x6          | 76-150            |           |
|        |                     |  |                    | 10x6         | 151-200           |           |
|        |                     |  |                    | 12x6         | 201-250           |           |
|        |                     |  |                    | 12x8         | 251-350           |           |
| B XXX  | SUPPLY AIR          | CEILING DIFFUSER 2, 3, & 4 WAYS W/ O.B.D.          | TITUS MODEL 250-AA | 8x8          | 151-200           |           |
|        |                     |  |                    | 10x10        | 201-300           |           |
|        |                     |  |                    | 12x12        | 301-450           |           |
|        |                     |  |                    | 10x10        | 100-250           |           |
|        |                     |  |                    | 12x12, 16x10 | 251-400           |           |
| 1 XXXX | DUCTED RETURN AIR   | RETURN AIR CEILING GRILLE W/ O.B.D.                | TITUS MODEL 350FL  | 14x14, 24x8  | 401-600           |           |
|        |                     |  |                    | 18x18, 28x10 | 601-1000          |           |
|        |                     |  |                    | 20x20, 30x14 | 1001-1500         |           |
|        |                     |  |                    | 30x16        | 1501-2000         |           |
|        |                     |  |                    | 10x10        | TRANSFER, 75-150  |           |
| 2 XXXX | TRANSFER RETURN AIR | RETURN AIR CEILING GRILLE W/ O.B.D.                | TITUS MODEL 350FL  | 12x12, 16x10 | TRANSFER, 151-225 |           |
|        |                     |  |                    | 14x14, 24x8  | TRANSFER, 226-325 |           |
|        |                     |  |                    | 18x18, 28x10 | TRANSFER, 326-575 |           |
|        |                     |  |                    | 20x20, 30x14 | TRANSFER, 576-725 |           |
|        |                     |  |                    | 30x16        | TRANSFER, 726-890 |           |

**OUTSIDE AIR SCHEDULE**

| A/C UNIT NUMBER | AREA SERVED        | Pz, p | Rp, CFM/p | Az, FT² | Ro, CFM/FT² | Ez | Voz, CFM (Pz*Rp+Az*Ro)/Ez | PROVIDED O/A, CFM |
|-----------------|--------------------|-------|-----------|---------|-------------|----|---------------------------|-------------------|
| AHU-1           | LOBBY/RECEPTION    | 8     | 7.5       | 264     | 0.06        | 1  | 76                        | 215               |
|                 | LOBBY/BAR          | 9     | 7.5       | 297     | 0.18        | 1  | 122                       |                   |
|                 | OFFICE             | 1     | 5.0       | 100     | 0.06        | 1  | 11                        |                   |
| AHU-2           | CORRIDOR 1st FLOOR | —     | —         | 157     | 0.06        | 1  | 10                        | 130               |
|                 | BIGGEST UNIT (104) | 2     | 5         | 119     | 0.06        | 1  | 17 X 7 UNITS              |                   |
| AHU-3           | CORRIDOR 1st FLOOR | —     | —         | 165     | 0.06        | 1  | 10                        | 150               |
|                 | BIGGEST UNIT (102) | 2     | 5         | 165     | 0.06        | 1  | 20 X 6 UNITS              |                   |
| AHU-5           | CORRIDOR 2nd FLOOR | —     | —         | 375     | 0.06        | 1  | 23                        | 375               |
|                 | BIGGEST UNIT (214) | 2     | 5         | 152     | 0.06        | 1  | 20 X 17 UNITS             |                   |
| AHU-6           | CORRIDOR 2nd FLOOR | —     | —         | 230     | 0.06        | 1  | 14                        | 200               |
|                 | BIGGEST UNIT (227) | 2     | 5         | 170     | 0.06        | 1  | 20 X 9 UNITS              |                   |



**FAN SCHEDULE**

| FAN NO. | CFM | SP.  | MODEL       | MFR.      | VOLT-PH-HZ | AMPS. | SONES | INTERLOCK    |
|---------|-----|------|-------------|-----------|------------|-------|-------|--------------|
| EF-1    | 50  | 0.2" | AEN50       | NUTONE    | 115-1-60   | 0.2   | 0.5   | LIGHT SWITCH |
| EF-2    | 80  | 0.2" | AEN110      | NUTONE    | 115-1-60   | 0.3   | 1.0   | LIGHT SWITCH |
| EF-3    | 100 | 0.2" | FV-0510VSC1 | PANASONIC | 115-1-60   | 11.3  | 0.3   | LIGHT SWITCH |

**GENERAL MECHANICAL NOTES**

- SCOPE OF WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE FURNISHING OF ALL AIR CONDITIONING, HEATING AND VENTILATION WORK AS SHOWN ON DRAWINGS. HEREIN SPECIFIED AND/OR EQUAL EQUIPMENT FOR APPROVAL. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 AND LOCAL ORDINANCES.
- AIR CONDITIONING SYSTEM OF SPLIT TYPE.  
SHALL CONSIST OF CONDENSING UNIT AND AIR HANDLING UNIT AS INDICATED ON DRAWINGS. SYSTEM SHALL BE PROVIDED COMPLETE WITH FRAMES AND ENCLOSURES, WIRING, NECESSARY CONTROLS REFRIGERANT CHARGE AND OIL CHARGE, STRIP HEATER, INTERCONNECTING PIPES AND FILTER BOX. REFRIGERANT LINES SHALL BE OF COPPER OF THE PRECHARGED, PRE-INSULATED TYPE FURNISHED AND SIZED BY SUPPLIER OF EQUIPMENT. PROVIDE SMOKE DETECTORS TO SHUT OFF UNIT.
- CONDENSATE WATER PIPING.  
CONDENSATE WATER PIPING IS EXISTING PVC SCHED. 40 IN NON RETURN AIR PLENUM SPACES. USE CPVC IN RETURN AIR PLENUM SPACES.
- OUTSIDE AIR INTAKES SHALL BE AT 10' MINIMUM DISTANCE FROM ANY EXHAUST VENTS.
- DUCTWORK  
A) DUCTWORK SHALL BE FIBERBOARD FOR INDOOR AIR CONDITIONED SUPPLY AND RETURN DUCTWORK AND METAL FOR EXHAUST, AND NON-CONDITIONED OUTSIDE.  
B) GLASS FIBER DUCTWORK SHALL BE "OWENS-CORNING" RECTANGULAR DUCT SYSTEM TYPE HD-FR OR EQUAL, 1-1/2" INSULATION R-6.5, CONFORMING TO APPLICATION MANUAL PUB.# 5-GL-2024 & DESIGN GUIDE, PUB.# 5-IN-2617 FOR ALL ATTIC CONDITIONS AND 1" FOR ALL INTERIOR INSTALLATIONS.  
C) FLEXIBLE DUCTWORK SHALL MEET REQUIREMENTS OF NFPA 90A AND SHALL BE LISTED AS CLASS I AIR DUCT MATERIAL, UL STANDARD 181. FLEXIBLE DUCT SHALL BE INSULATED WITH R-6, 3/4 LB DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER AND SHALL NOT EXCEED 10 FEET IN LENGTH, NON COMPRESSED. METALFLEX V-200-S-UL OR EQUAL.
- METAL DUCTS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE LOW VELOCITY DUCT CONSTRUCTION STANDARDS, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONED CONTRACTORS NATIONAL ASSOCIATION, INC." AND THE LATEST PUBLICATION OF GUIDE & DATA BOOK OF THE "AMERICAN SOCIETY OF HEATING, VENTILATING AND AIR CONDITIONING ENGINEERS".
- TURNING VANES SHALL BE PROVIDED IN ALL RECTANGULAR DUCTS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR CONDITIONING SUPPLY AIR OUTLET, AS PER SCHEDULES AND DRAWING, SYSTEMS SHALL BE BALANCED AGAINST THE ACTUAL INSTALLED STATIC PRESSURE.
- BEFORE SUBMITTING FINAL PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE OF THE PROPOSED WORK TO DETERMINE THE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK AS HE WILL BE RESPONSIBLE FOR ANY ASSUMPTIONS MADE BY HIM IN REGARDS THERE TO.
- ANY APPARATUS, APPLIANCE, MATERIALS, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE INSTALLATION COMPLETE AND FUNCTIONAL IN ALL RESPECTS AND READY TO OPERATION, EVEN IF NO PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL EXPENSE FOR THE OWNER, AS PART OF MEANS AND METHOD OF INSTALLATION.
- VIBRATION ISOLATION.  
PROVIDE SUPPORTS OR MOUNTS FOR ALL EQUIPMENT LOCATED WITHIN THE BUILDING STRUCTURE POWERED BY ONE HORSEPOWER OR LARGER MOTOR. FLEXIBLE PIPING CONNECTIONS SHALL BE PROVIDED FOR ALL PIPING CONNECTED TO EQUIPMENT MOUNTED OR SUPPORTED BY VIBRATION ISOLATORS.
- ALL NECESSARY ACCESS TO PANELS TO CEILING MOUNTED EQUIPMENT, CONTROL VALVES, CONTROL DAMPERS, ETC.
- ALL WORK SHALL BE FIELD CHECKED BEFORE INSTALLATION AND COORDINATED WITH ALL OTHER TRADES.
- ALL MECHANICAL EQUIPMENT INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE CONSTRUCTED TO WITHSTAND A WIND PRESSURE OF 170 MPH WINDS FROM ANY DIRECTION.
- ALL SIZES SHOWN FOR LINED AND UNLINED DUCTS ARE CLEAR INSIDE DUCT DIMENSIONS.
- COORDINATE LOCATION OF DUCTWORK WITH OTHER TRADES, PARTICULARLY WHERE DUCTS RUN THROUGH STRUCTURAL ELEMENTS. PROVIDE ALL NECESSARY SLEEVES BEFORE CONCRETE IS POURED.
- ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR MECHANICAL SUB CONTRACTOR TO FURNISH ALL MOTORS, STARTERS, AND RELAYS, ETC.
- A/C CONTRACTOR IS RESPONSIBLE FOR OBTAINING HIS OWN PERMIT AND PAYING ALL PERMIT FEES.
- MECHANICAL ROOMS. MATERIALS EXPOSED WITHIN PLENUM RETURN AND THE MECHANICAL ROOMS RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84. FMC 602.2.1. NO HAZARDOUS OR NOXIOUS MATERIALS WILL NOT BE STORED IN THE MECHANICAL ROOMS.
- EQUIPMENT ELEVATION INDICATIONS (WHEN SHOWN) SHALL BE USED FOR REFERENCE ONLY AND NOT AS AN INDICATION OF FABRICATION REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY AND MODIFY IN FABRICATION AS NECESSARY FOR A WORKABLE INSTALLATION.
- CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS INCURRED RESULTING FROM SUBSTITUTION OF EQUIPMENT AS WELL AS THE PERFORMANCE OF SUCH EQUIPMENT.
- TESTS.  
ALL TESTS SHALL BE PERFORMED AS REQUIRED DURING THE DIFFERENT STAGES OF WORK AND A FINAL 24 HOURS MINIMUM RUNNING TEST SHALL BE DONE AFTER ALL OTHER TESTS AND BALANCING OPERATIONS HAVE BEEN DONE. PROVIDE A BALANCING INDEPENDENT TEST & BALANCE REPORT TO ENGINEER FOR REVIEW.
- PROVIDE ALL NECESSARY INSTRUCTIONS TO THE OWNER IN THE OPERATION OF THE MECHANICAL SYSTEMS.
- PROVIDE EQUIPMENT MAINTENANCE AND INSTRUCTION MANUALS. MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR ACCEPTANCE.
- SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH PURCHASE OR INSTALLATION OF THE EQUIPMENT AND MATERIALS.
- GUARANTEE.  
CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF 3 YEARS LABOR, 1 YEAR EQUIPMENT FROM DATE OF ACCEPTANCE.
- THE PIPING AND FITTINGS FOR REFRIGERANT VAPOR (SUCTION) LINES SHALL BE INSULATED WITH INSULATION HAVING A THERMAL RESISTIVITY OF AT LEAST R-4 AND EXTERNAL SURFACE PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTM E 96.

**DEMOLITION NOTES:**

- THE NATURE OF THIS REMODELING TYPE PROJECT POSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE MECHANICAL CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING DUCTWORK. THE MAJOR PORTION OF THE MECHANICAL SYSTEMS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
- CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT THEM FROM DAMAGE.
- BEFORE GIVING THE PRICE, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, CONDITION AND SIZE OF EXISTING SUPPLY AND RETURN GRILLS AND THE EXACT LOCATION AND SIZE OF EXISTING SUPPLY AND RETURN DUCTWORKS. AFTER GETTING THE JOB, MAKE MODIFICATIONS AS REQUIRED ON THE SITE WITHOUT ADDITIONAL COST TO THE OWNER.
- EXISTING A/C SERVING AREAS NOT COVERED BY THIS CONTRACT BUT SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.

**HVAC DESIGN REQUIRES**

|  | YES | NO |
|--|-----|----|
| DUCT SMOKE DETECTOR                    |     | •  |
| FIRE DAMPER(S)                         | •   |    |
| SMOKE DAMPER(S)                        | •   |    |
| FIRE RATED ENCLOSURE                   | •   |    |
| FIRE RATED ROOF/FLOOR CEILING ASSEMBLY | •   |    |
| FIRESTOPPING                           | •   |    |
| SMOKE CONTROL                          | •   |    |

**RPA Engineering**  
PROVIDING MEP SOLUTIONS

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Digitally signed by Ricardo Perez de Alejo  
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RICARDO PEREZ, P.E. 58728

**Rev. Date**

| Rev.     | Date     | Rev. | Date |
|----------|----------|------|------|
| △ P.P.C. | 11/23/20 |      |      |
| △ B.D.C. | 02/04/21 |      |      |
| △ B.D.C. | 03/18/21 |      |      |

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MIAMI BEACH, FL 33139

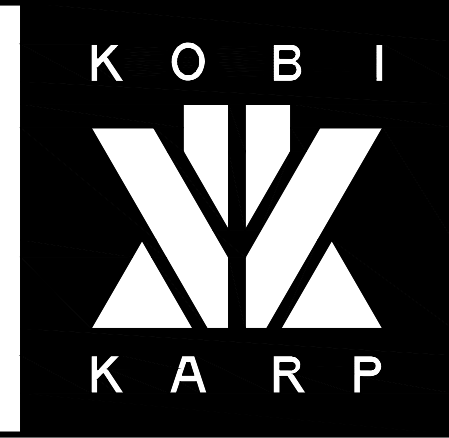
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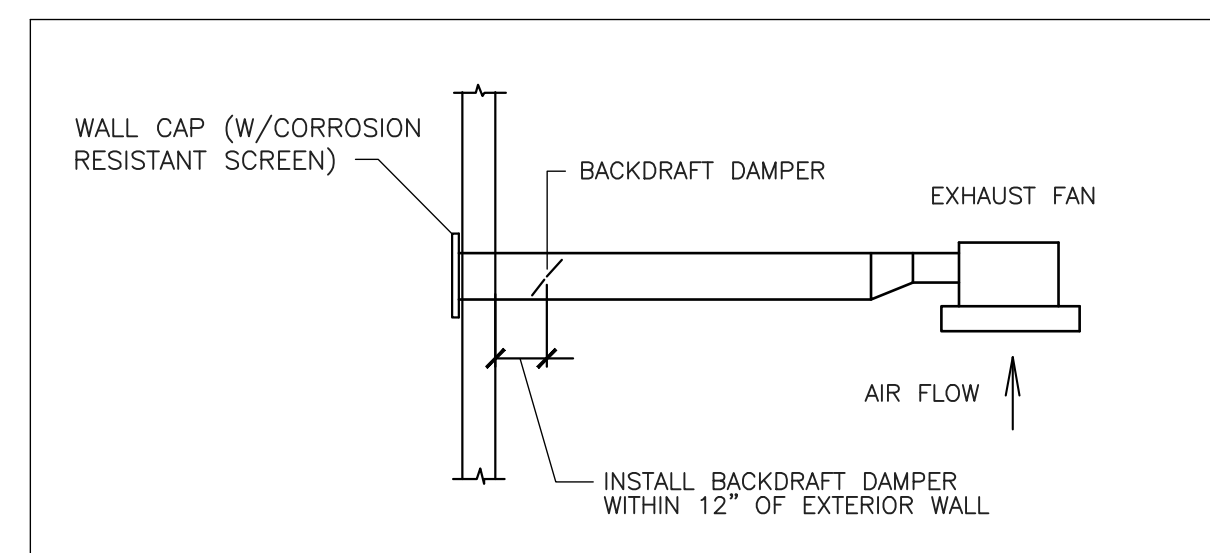
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KOBI KARP  
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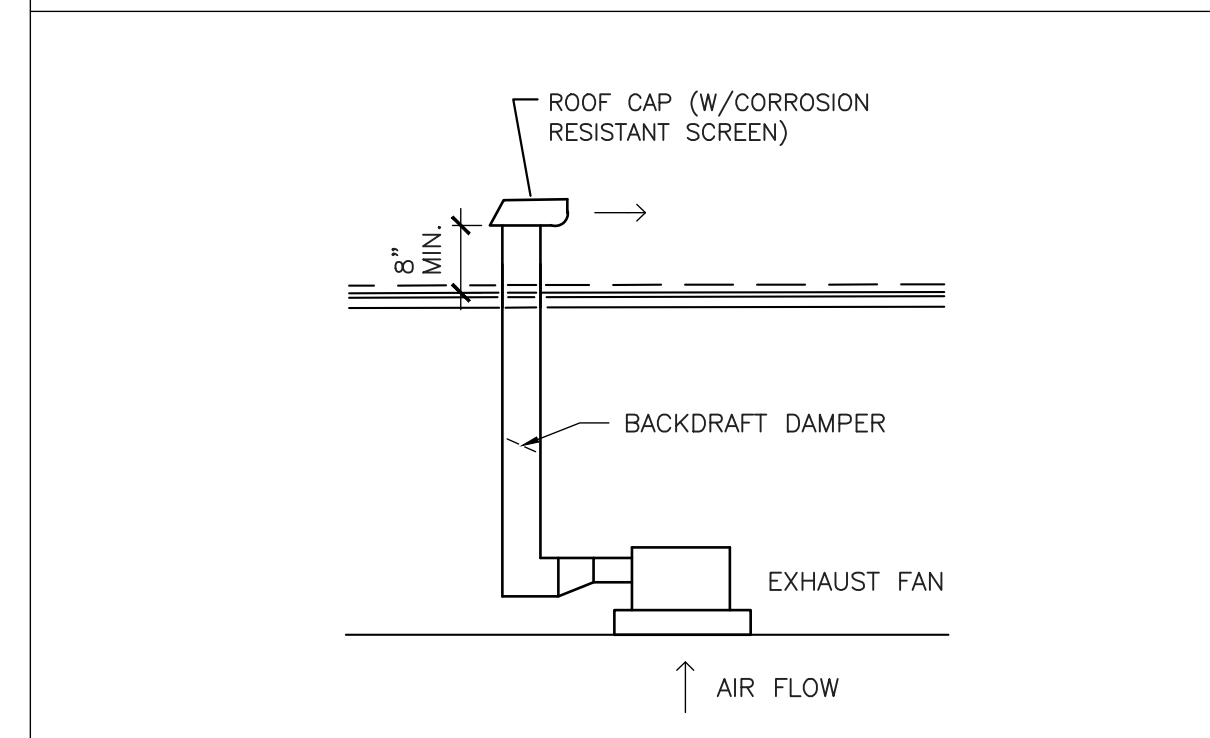
**MECHANICAL NOTES & DETAILS**

|         |               |           |      |
|---------|---------------|-----------|------|
| Date    | JUNE 08, 2020 | Sheet No. | M201 |
| Scale   | AS INDICATED  |           |      |
| Project | 1967          |           |      |



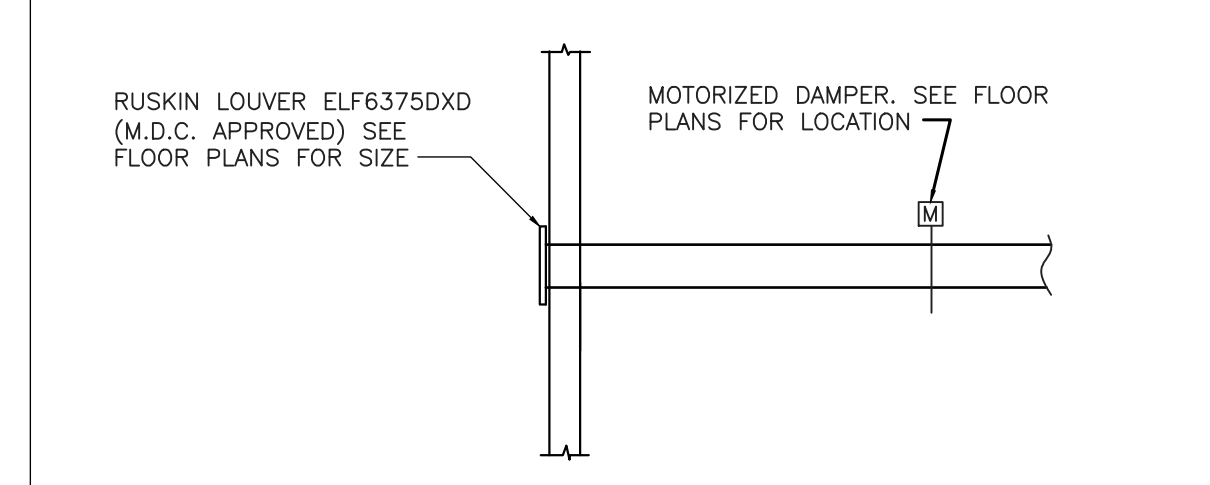
BATHROOM EXHAUST DUCTS TO BE CONSTRUCTED OF A MIN. 28 GAUGE (GALVANIZED) AND DISCHARGE TO THE OUTSIDE OF THE BLDG. SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL, MESH SIZE NOT LARGER THAN 1/2"

**TOILET EXH. WALL CAP DETAIL**  
N.T.S.



BATHROOM EXHAUST DUCTS TO BE CONSTRUCTED OF A MIN. 28 GAUGE (GALVANIZED) AND DISCHARGE TO THE OUTSIDE OF THE BLDG. SHALL BE TERMINATED NOT LESS THAN 8" ABOVE THE FINISHED ROOF SURFACE AND SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL, MESH SIZE NOT LARGER THAN 1/2".

**TOILET EXHAUST ROOF CAP**  
N.T.S.



**OUTSIDE AIR WALL CAP DETAIL**  
N.T.S.

| Rev.     | Date     | Rev. | Date |
|----------|----------|------|------|
| NOT USED |          |      |      |
| B.D.C.   | 02/04/21 |      |      |
| B.D.C.   | 03/18/21 |      |      |
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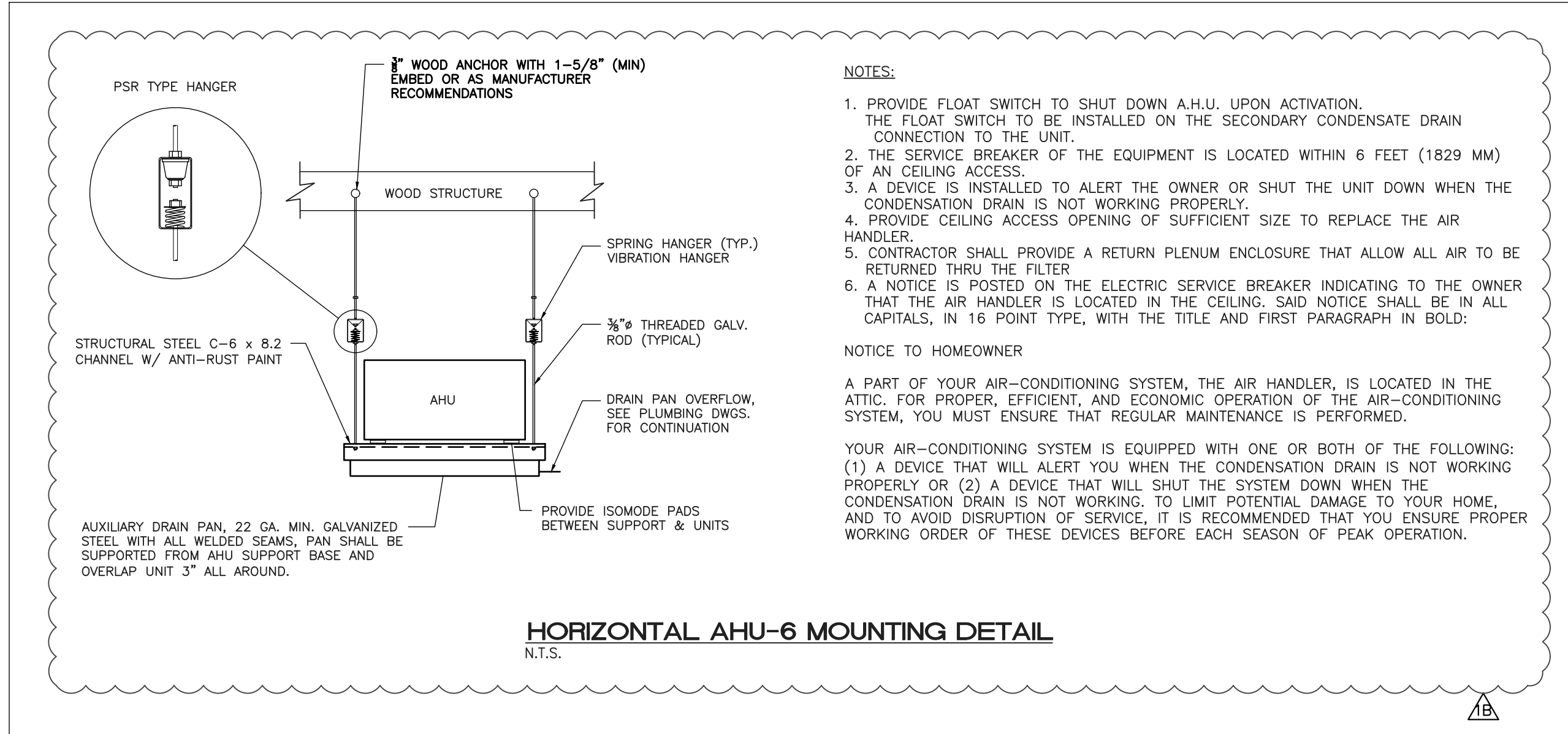
**Ricardo Perez de Alejo**

Digitally signed by Ricardo Perez de Alejo  
Date: 2021.04.27 18:11:04 -04'00'



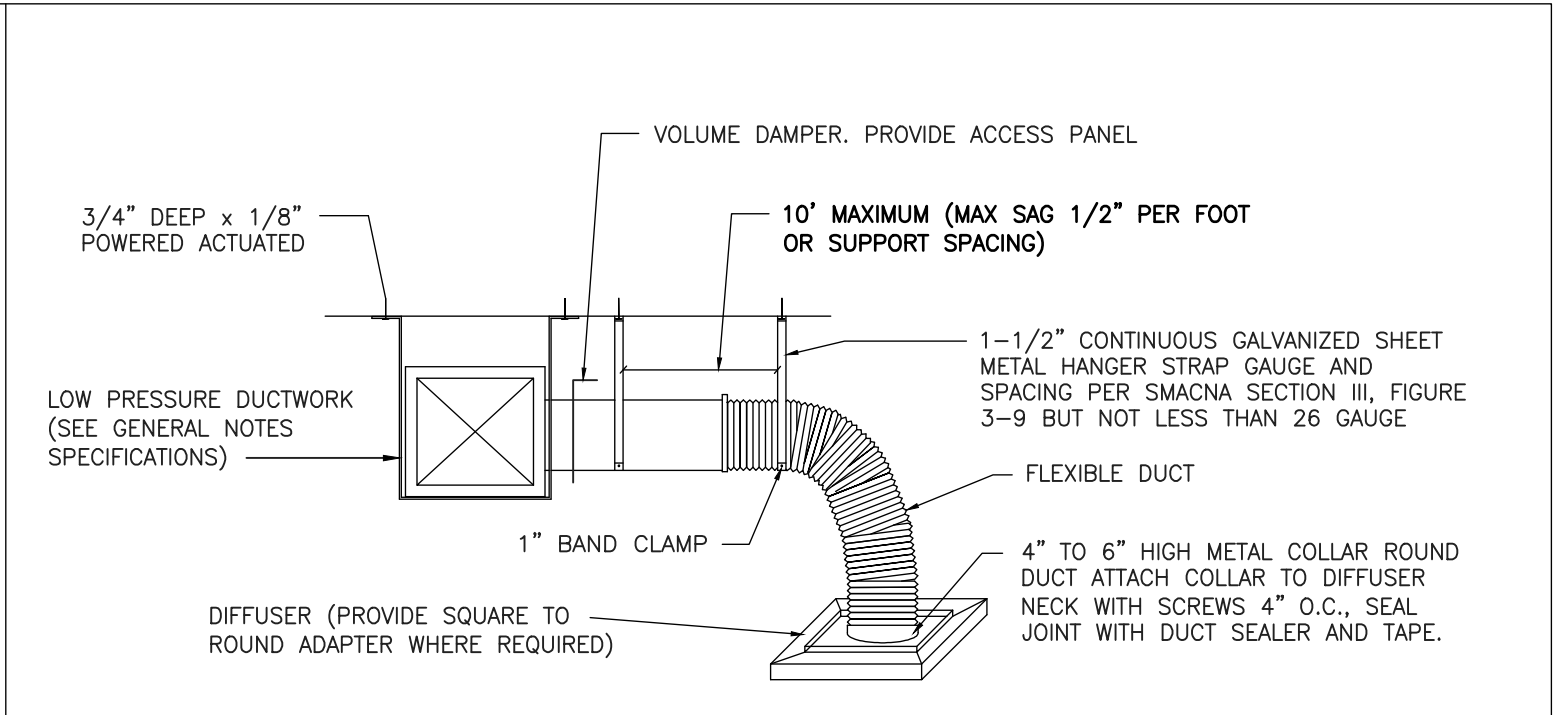
KOBIL KARP  
Lic. # AR0012578

**MECHANICAL NOTES & DETAILS**



**HORIZONTAL AHU-6 MOUNTING DETAIL**  
N.T.S.

- NOTES:**
1. PROVIDE FLOAT SWITCH TO SHUT DOWN A.H.U. UPON ACTIVATION. THE FLOAT SWITCH TO BE INSTALLED ON THE SECONDARY CONDENSATE DRAIN CONNECTION TO THE UNIT.
  2. THE SERVICE BREAKER OF THE EQUIPMENT IS LOCATED WITHIN 6 FEET (1829 MM) OF AN CEILING ACCESS.
  3. A DEVICE IS INSTALLED TO ALERT THE OWNER OR SHUT THE UNIT DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY.
  4. PROVIDE CEILING ACCESS OPENING OF SUFFICIENT SIZE TO REPLACE THE AIR HANDLER.
  5. CONTRACTOR SHALL PROVIDE A RETURN PLENUM ENCLOSURE THAT ALLOW ALL AIR TO BE RETURNED THRU THE FILTER.
  6. A NOTICE IS POSTED ON THE ELECTRIC SERVICE BREAKER INDICATING TO THE OWNER THAT THE AIR HANDLER IS LOCATED IN THE CEILING. SAID NOTICE SHALL BE IN ALL CAPITALS, IN 16 POINT TYPE, WITH THE TITLE AND FIRST PARAGRAPH IN BOLD:
- NOTICE TO HOMEOWNER**
- A PART OF YOUR AIR-CONDITIONING SYSTEM, THE AIR HANDLER, IS LOCATED IN THE ATTIC. FOR PROPER, EFFICIENT, AND ECONOMIC OPERATION OF THE AIR-CONDITIONING SYSTEM, YOU MUST ENSURE THAT REGULAR MAINTENANCE IS PERFORMED.
- YOUR AIR-CONDITIONING SYSTEM IS EQUIPPED WITH ONE OR BOTH OF THE FOLLOWING: (1) A DEVICE THAT WILL ALERT YOU WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY OR (2) A DEVICE THAT WILL SHUT THE SYSTEM DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING. TO LIMIT POTENTIAL DAMAGE TO YOUR HOME, AND TO AVOID DISRUPTION OF SERVICE, IT IS RECOMMENDED THAT YOU ENSURE PROPER WORKING ORDER OF THESE DEVICES BEFORE EACH SEASON OF PEAK OPERATION.

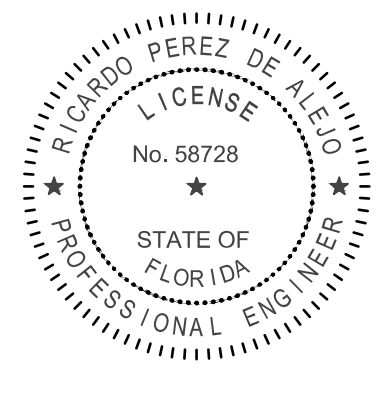


**DUCT HANGING DETAIL (FIBER BOARD AND FLEX.)**  
N.T.S.

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|         |               |           |      |
|---------|---------------|-----------|------|
| Date    | JUNE 08, 2020 | Sheet No. | M202 |
| Scale   | AS INDICATED  |           |      |
| Project | 1967          |           |      |



3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

**FDR25 ROUND FIRE DAMPER**  
1 1/2 HOUR UL555 RATING FOR USE IN DYNAMIC AND STATIC SYSTEMS

**APPLICATION**  
Ruskin FDR25 is a true round fire damper designed for use in fire rated walls and floors and is the perfect choice when using round duct.  
The FDR25 is rated for maximum velocity of 2,000 fpm (10.2 m/s) and 4" w.g. (1 kPa). The integral frame and unique "cinch plate" design provides a low cost, high performing damper. When the FDR25 reaches a job site nothing else is required in order to install the damper. The FDR25 now has UL approval for plate on one-side of metal stud or concrete walls.



| STANDARD CONSTRUCTION |   |
|-----------------------|---|
| <b>Description</b>    | 20 gauge (1.9) galvanized steel, standard 14" (356) integral sleeve and retaining "cinch" plates. |
| <b>Frame/Sleeve</b>   | Single skin 14 gauge (1.9) equivalent thickness galvanized steel.                                 |
| <b>Blades</b>         | Stainless steel sleeve, pressed into frame.   |
| <b>Bearings</b>       | 1/2" (13) diameter.   |
| <b>Axle</b>           | 165°F (74°C) is standard. 212°F (100°C) or 285°F (141°C) available at additional cost.            |
| <b>Fuse Link</b>      |   |

| MAXIMUM OPERATIONAL RATINGS |                     |
|-----------------------------|---------------------|
| <b>Description</b>          | FDR25               |
| <b>UL555 Hourly Rating</b>  | 1 1/2 Hours         |
| <b>Maximum Velocity</b>     | 2000 FPM (10.2 m/s) |
| <b>Maximum Pressure</b>     | 4 in. wg (1kPa)     |

Model FDR25 meets the requirements for fire, dampers established by:  
 • National Fire Protection Association NFPA Standards 80, 90A, 92A, 92B, 101 and 105  
 • ICC International Building Codes  
 • CSFM California State Fire Marshal Fire Damper Listing (#3225-245-102)  
 • New York City (BSA Listing #176-82-SM)



**DAMPER SIZES**  
MINIMUM SIZE  
6" (152) diameter.  
MAXIMUM SIZE  
Vertical/horizontal - 24" (610) diameter.  
**OPTION**  
• Stainless Steel Construction (See Model FDR25SS)  
• Sleeve/Frame of various lengths to insure field compliance with UL installation requirements.  
**NOTES**  
1. Units furnished approximately 1/4" (3) smaller than given size.  
2. Dimensions shown in parentheses ( ) indicate millimeters.

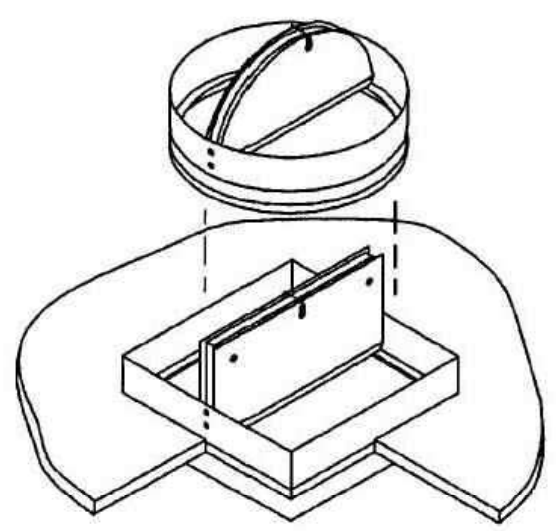
Spec FDR25-616/Replace FDR25-610 ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. ©Ruskin September 2018



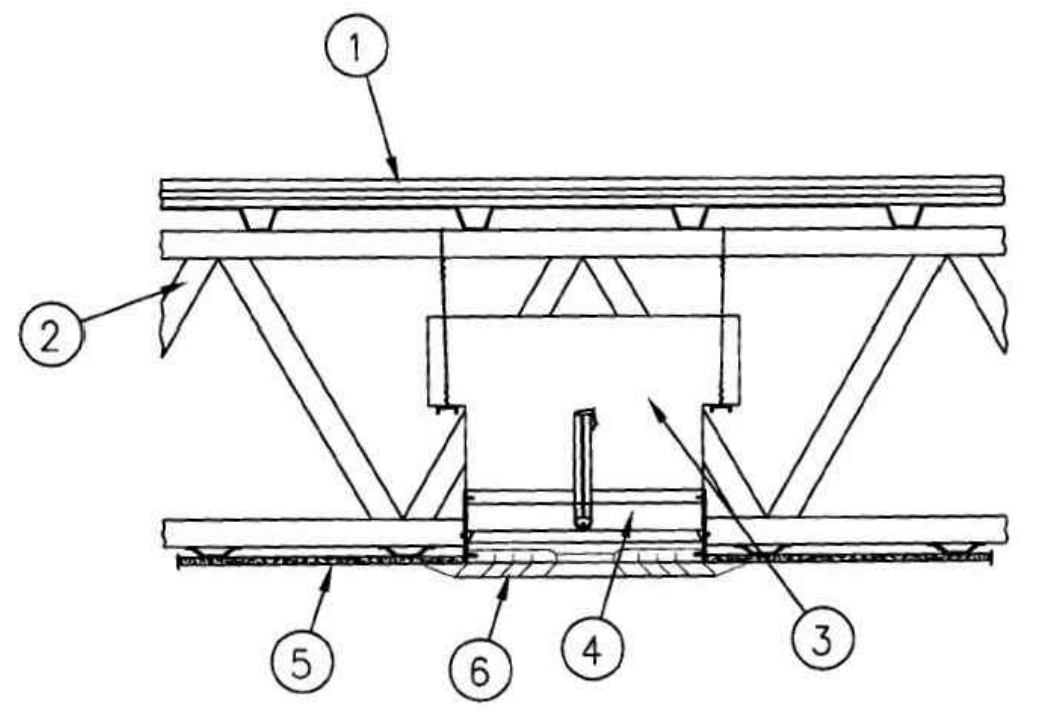
3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

**CEILING DAMPER INSTALLATION SUPPLEMENT**  
FOR CEILING DESIGN L555  
MODELS CFD(R)2, CFD(R)3, CFD(R)3.5

**APPLICATION**  
Models CFD(R)2, CFD(R)3, CFD(R)3.5, CF04 and CFD(R)5 are UL labeled ceiling radiation dampers. When installed as shown, they provide appropriate protection for air inlet or outlet penetrations in the ceiling membrane of floor/ceiling and roof/ceiling assemblies with fire resistance ratings of up to 1 hour.



- ITEM DESCRIPTION**
- Floor or roof assembly
  - Wood truss
  - Air duct (insulated)
  - Ceiling damper
  - Gypsum board
  - Grille (by others)



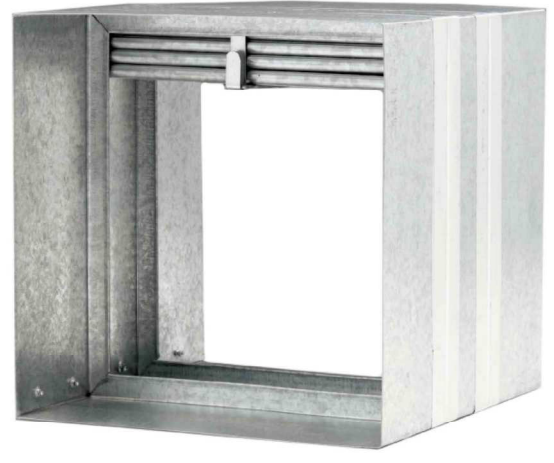
See complete marking on product. UL555 Classification R5531



3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

**DIBD20, 40, 60 AND DIBD230, 430, 630 CURTAIN TYPE DYNAMIC FIRE DAMPERS**  
1 1/2 AND 3 HOUR UL555 RATED FOR USE IN DYNAMIC AND STATIC SYSTEMS

**APPLICATION**  
DIBD20, 40, 60 fire dampers can be installed vertically in walls or horizontally in floors with fire resistance ratings of less than 3 hours. The DIBD20, 40, 60 carry a 1 1/2 hour UL fire damper label and are classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.  
DIBD230, 430, 630 can be installed vertically in walls or horizontally in floors with fire resistance ratings of 3 hours or more. The DIBD230, 430, 630 carry a 3 hour UL fire damper label and are classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.



**DYNAMIC CLOSURE RATINGS**  
4000 fpm (20.3 m/s) vertical mount only, up to 24" x 24" (610 x 610).  
3000 fpm (15.2 m/s) vertical and horizontal mount, up to 24" x 24" (610 x 610).  
2000 fpm (10.2 m/s) vertical or horizontal mount on all sizes.  
4 in. w.g. (1kPa) maximum pressure on all sizes.

**STANDARD CONSTRUCTION**  
Galvanized steel (in gauges required by UL listing R-5531).  
**FRAME AND BLADES MATERIAL**  
Galvanized steel (in gauges required by UL listing R-5531).  
**FRAME/SLEEVE LENGTH**  
DIBD20, DIBD230 - 16" (406) long  
DIBD40, DIBD430 - 14" (356) long  
DIBD60, DIBD630 - 16" (406) long  
**CLOSURE SPRINGS**  
301 stainless steel constant force or spring clip type.  
**FUSIBLE LINK**  
165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) are available.

Models DIBD20, 40, 60 and DIBD230, 430, 630 meet the requirements for fire, dampers established by:  
 • National Fire Protection Association NFPA Standards 90A and 101  
 • ICC International Building Codes  
 • CSFM California State Fire Marshal Fire Damper Listing (#3225-245-005)  
 • New York City (BSA Listing #290-71-SA) DIBD2 only.

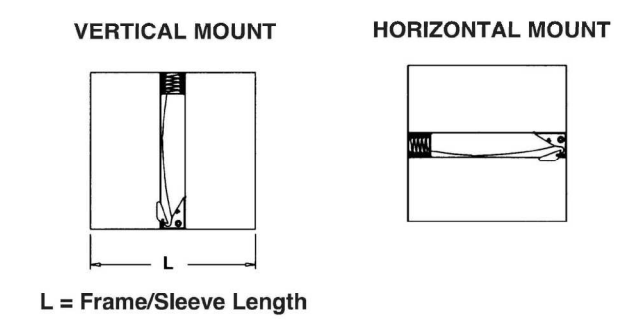
**DAMPER SIZES**  
The sizes listed below are for A Style dampers. Refer to pages 2 and 3 for sizes of other style dampers.  
**MINIMUM SIZE**  
Vertical Installation - 4" w x 4" h (102 x 102)  
Horizontal Installation - 8" w x 6" h (152 x 152) for dampers no larger than 24" w or 24" h (610 or 610). Dampers larger than 24" w or 24" h (610 or 610) have a minimum size of 10" w or 10" h (254 or 254).  
**MAXIMUM SIZE**  
Single Section  
Vertical Installation - 32" w x 36" h (838 x 914)  
Horizontal Installation - 24" w x 24" h (610 x 610)  
Multiple Section  
Vertical Installation - 72" w x 48" h (1829 x 1219), 48" w x 72" h (1219 x 1829) or 84" w x 24" h (2134 x 610)  
Horizontal Installation - 36" w x 48" h (914 x 1219)

UL CLASSIFIED  
UL555 Listing R5531



FM Approvals  
Specification Tested Product (Option)

**OPTIONS**  
• FM Approvals as Specification Tested Product.  
• Switch Package to remotely indicate damper blade position.  
• FAST Angle for one side angle installation.  
• DIBD10 for easy all from one side installation.  
• G Style for grille applications.  
• FireStop Caulk Installation.



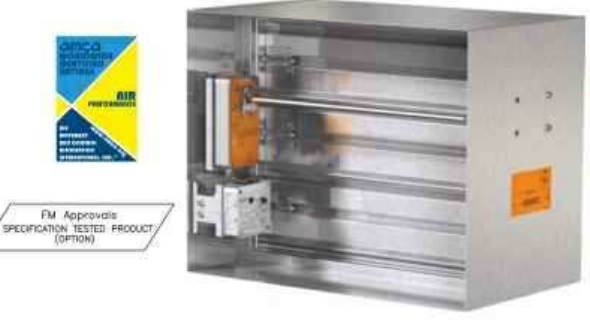
**NOTE:**  
1. Dimensions shown in parentheses ( ) indicate millimeters.  
2. Damper Steeves may need to be seated in the field to pass local duct leakage requirements.

Spec DIBD20, 40, 60, 230, 430, 630-1118/ Replace DIBD20, 40, 60, 230, 430, 630-9116 ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. ©Ruskin November 2018



**Model FSD-211**  
Combination Fire Smoke Damper  
Steel 3V Blades  
UL 555S Leakage Class I  
UL 555 1 1/2 Hour Fire Resistance Rating

**Application**  
Model FSD-211 is a combination fire smoke damper with 3V style blades. This model is designed for operation and dynamic closure in emergency fire smoke situations. It is rated for airflow and leakage in either direction. The FSD-211 may be installed vertically (with blades running horizontal) or horizontally.



**Ratings**  
**UL 555 Fire Resistance Rating**  
Fire Rating: 1 1/2 hours  
Dynamic Closure Rating: Actual ratings are size dependent  
Velocity: Up to 2,000 fpm (10.2 m/s)  
Pressure: Up to 6 in. wg (1.5 kPa)  
**UL 555S Leakage Rating**  
Leakage Class: I  
Operational Rating: Actual ratings are size dependent  
Velocity: Up to 2,000 fpm (10.2 m/s)  
Pressure: Up to 6 in. wg (1.5 kPa)  
Temperature: Up to 350°F (177°C) - depending upon the actuator

| Construction             | Standard   | Optional                                    |
|--------------------------|--|---|
| Frame Material           | Galvanized steel                                 | -   |
| Frame Material Thickness | 16 ga. (1.5mm)                                   | -   |
| Frame Type               | 5 in. x 1 in. (127mm x 25mm) hat channel         | -   |
| Blade Material           | Galvanized steel                                 | -   |
| Blade Material Thickness | 16 ga. (1.5mm)                                   | -   |
| Blade Type               | 3V   | -   |
| Linkage                  | Plated steel out of airstream, concealed in jamb | -   |
| Axle Bearings            | 304SS  | -   |
| Axle Material            | Plated steel                                     | -   |
| Blade Seals              | Silicone   | -   |
| Jamb Seals               | 304SS  | -   |
| Closure Device           | RRL, OGI, TOR, PRV, or Fusible Link              | -   |
| Closure Temperature      | 165°F (74°C)                                     | 212°F (100°C), 250°F (121°C), 350°F (177°C) |

**Features:**  
• Frames are constructed with reinforced corners. Low profile head and sill are used on sizes less than 17 in. high (432mm).

\*Width and Height dimensions furnished approximately 1/8 in. (6mm) undersize. Add sleeve thickness for overall sleeved damper dimension.

Model FSD-211 meets the requirements for fire dampers, smoke dampers and combination fire smoke dampers established by:  
 National Fire Protection Association  
 NFPA Standards 80, 90A, 92A, 92B, 101 & 105  
 ICC International Building Codes  
 CSFM California State Fire Marshal  
 Fire Damper Listing (#3225-0981-103)  
 Leakage (Smoke) Damper Listing (#3230-0981-104)  
 New York City (MEA listing #260-91-M)

See complete marking on product.  
UL 555 and UL 555S Classification R13317

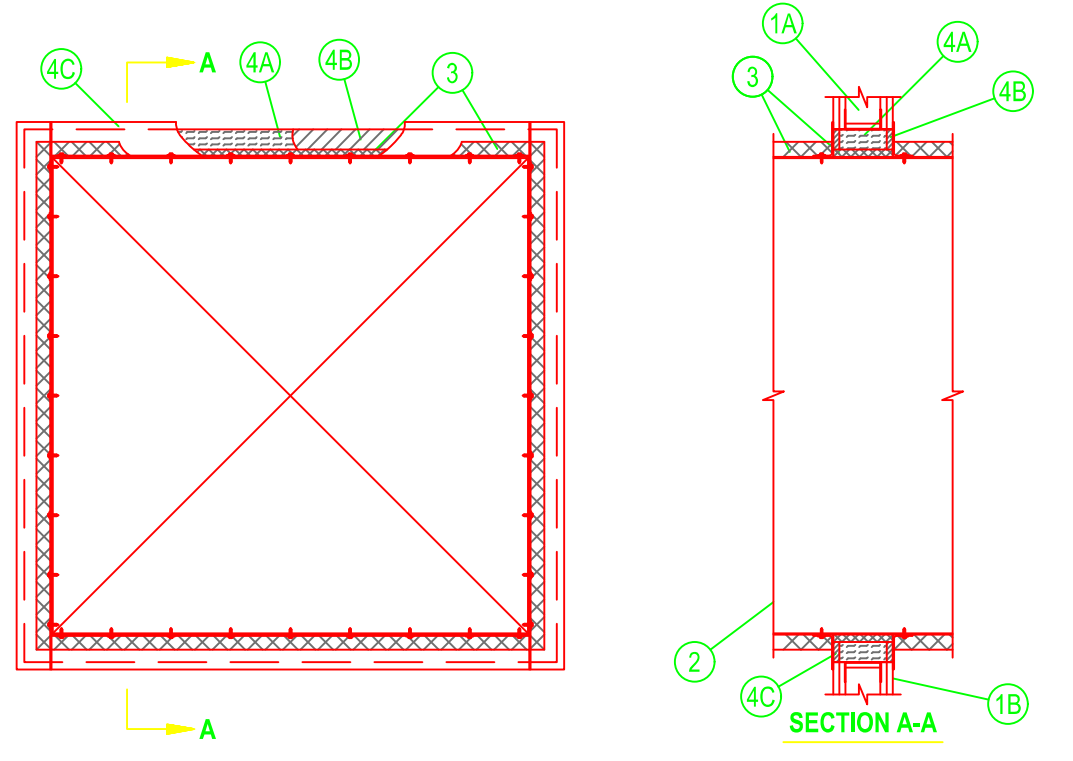
| W x H                       | Minimum Size | Maximum Size             |             |             |
|-----------------------------|--------------|--------------------------|-------------|-------------|
|                             |              | Single Section           | Horizontal  | Vertical    |
| 4 in. wg (1 kPa) pressure   |              |                          |             |             |
| Inches                      | 8 x 6        | 32 x 50 or 36 x 48       | 144 x 96    | 128 x 100   |
| mm                          | 203 x 152    | 813 x 1270 or 914 x 1219 | 3658 x 2438 | 3251 x 2540 |
| 6 in. wg (1.5 kPa) pressure |              |                          |             |             |
| Inches                      | 8 x 6        | 36 x 48                  | 144 x 48    | 128 x 48    |
| mm                          | 203 x 152    | 914 x 1219               | 3658 x 1219 | 3251 x 1219 |

Installation instructions available at www.greenheck.com.

**Hilti Firestop Systems**



| System No. W-L-7156                 |                                      |
|-------------------------------------|--------------------------------------|
| ANSI/UL1479 (ASTM E814)             | CAN/ULC S115                         |
| F Ratings — 1 and 2 Hr (See Item 1) | F Ratings — 1 and 2 Hr (See Item 1)  |
| T Rating — 0 Hr                     | FT Rating — 0 Hr                     |
|                                     | FH Ratings — 1 and 2 Hr (See Item 1) |
|                                     | FTH Rating — 0 Hr                    |



- Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.  
 B. Gypsum Board\* — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max size of opening is 210 sq in. (1355 cm<sup>2</sup>) with a max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft. (7 m<sup>2</sup>) with a max width of 105-1/2 in. (27 m) for steel studs.  
 The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.  
 C. Steel Duct — Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.  
 D. Batts and Blankets\* — Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pc or 12 kg/m<sup>3</sup>) jacketed on the outside with a foil scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/2 in. (13 mm) to max 2 in. (51 mm).  
 See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.  
 E. Firestop System — The firestop system shall consist of the following:  
 A. Packing Material — Min 3-5/8 (92 mm) or 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening as a permanent form for 1 or 2 hr fire-rated walls, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.  
 B. Fill Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus. Flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant  
 C. Steel Retaining Angles\* — Min No. 16 gauge (0.059 in. or 1.5 mm) galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and lap wall surfaces a min of 1 in. (25 mm). Angles attached to steel duct on both sides of wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in<sup>2</sup> (8387 cm<sup>2</sup>), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

| Max Duct Dimension | Duct Thickness   | Annular Space                          | Packing Material | Angle (Item 3C) Required |
|--------------------|------------------|--|------------------|--------------------------|
| 24 in. (610 mm)    | 24 ga or heavier | 1/2 in. min to 1 in. max (13 to 25 mm) | Item 3A1         | No                       |

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



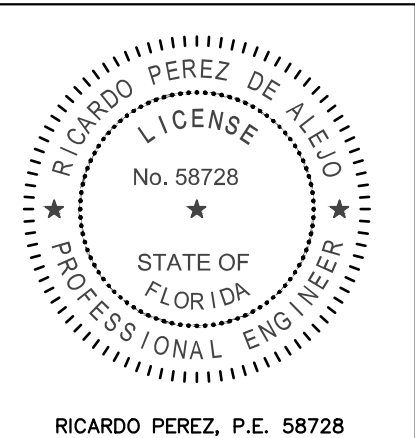
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

**Hilti Firestop Systems HVAC LEGEND**

| SYMBOL | DESCRIPTION   | SYMBOL | DESCRIPTION                                       |
|--------|---|--------|---|
|        | DESIGNATION FOR SUPPLY REGISTER LETTER AND CFM              |        | NEW SPIRAL SHEET METAL DUCTWORK INTERNALLY LINED. |
|        | DESIGNATION FOR RETURN REGISTER NUMBER AND CFM              |        | NEW FIBERBOARD DUCTWORK                           |
|        | AIR HANDLER UNIT  |        | ELBOW WITH TURNING VANES                          |
|        | THERMOSTAT  |        | REDUCERS AS INDICATED                             |
|        | SUPPLY REGISTER OR GRILLE MOUNT (VERTICAL SIDEWALL)         |        | STANDARD BRANCH TAKE-OFF                          |
|        | RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT SIDEWALL) |        | FLEXIBLE DUCTWORK W/COLLAR WITH VOLUME DAMPER     |
|        | EXHAUST FAN (CEILING TYPE)                                  |        | MOTORIZED DAMPER                                  |
|        | RETURN AIR GRILLE   |        | VOLUME DAMPER                                     |
|        | CEILING DIFFUSER  |        | FIRE/SMOKE DAMPER                                 |
|        | FIRE DAMPER   |        |   |
|        | CEILING RADIATION DAMPER                                    |        |   |

Ricardo Perez de Alejo  
Digitally signed by Ricardo Perez de Alejo  
Date: 2021.04.27 18:11:25 -04'00'

**RPA Engineering**  
PROVIDING MEP SOLUTIONS  
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email: rpez@rpa-engineering.com



| Rev.     | Date     | Rev. | Date |
|----------|----------|------|------|
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| NOT USED |          |      |      |
| B.D.C.   | 03/18/21 |      |      |

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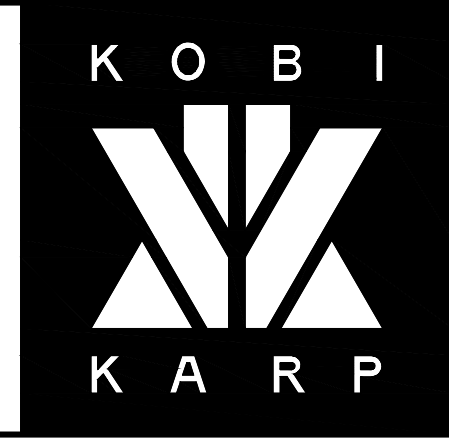
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**MECHANICAL NOTES & DETAILS**

|         |               |           |      |
|---------|---------------|-----------|------|
| Date    | JUNE 08, 2020 | Sheet No. | M203 |
| Scale   | AS INDICATED  |           |      |
| Project | 1967          |           |      |

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**ELECTRICAL LEGEND.**

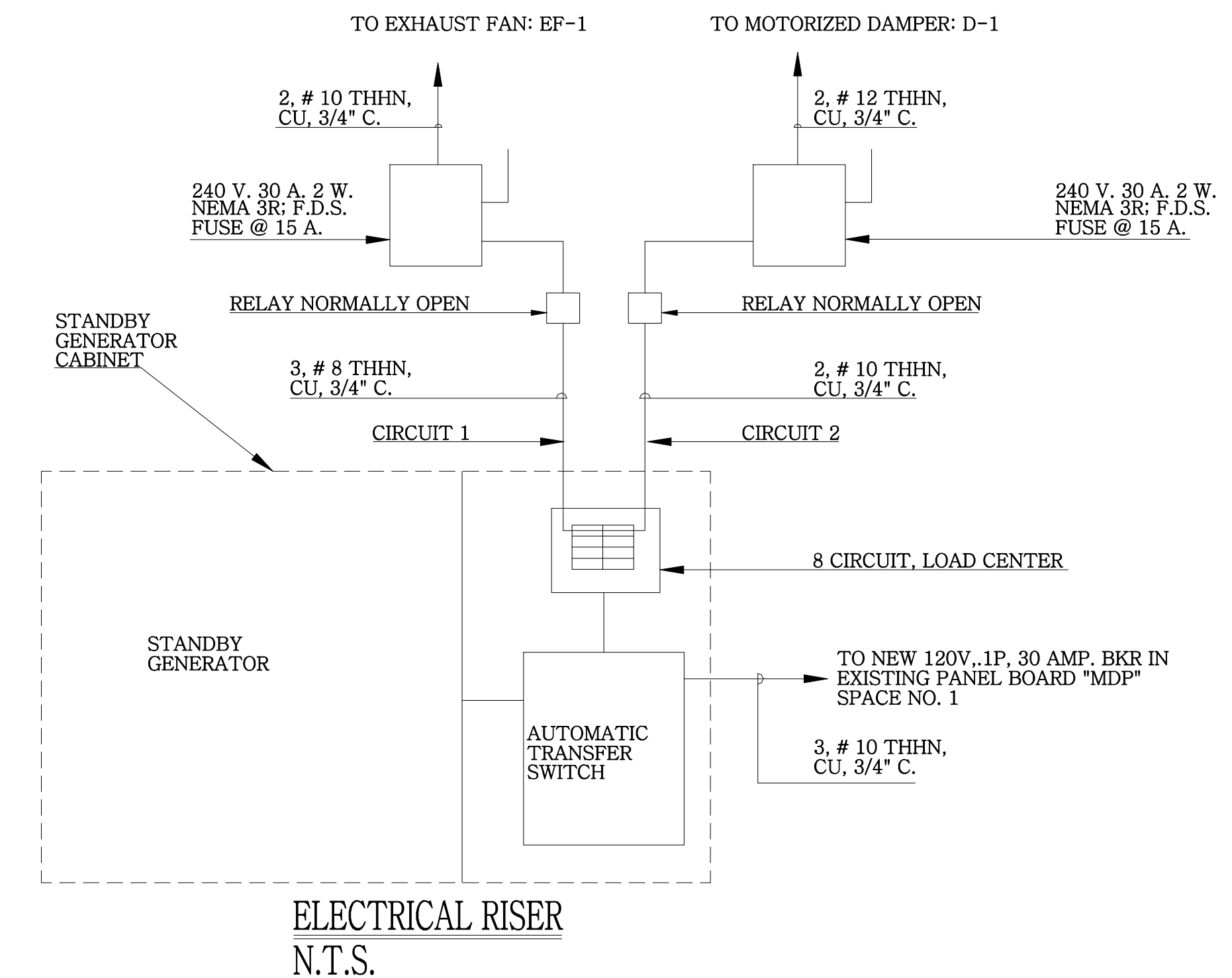
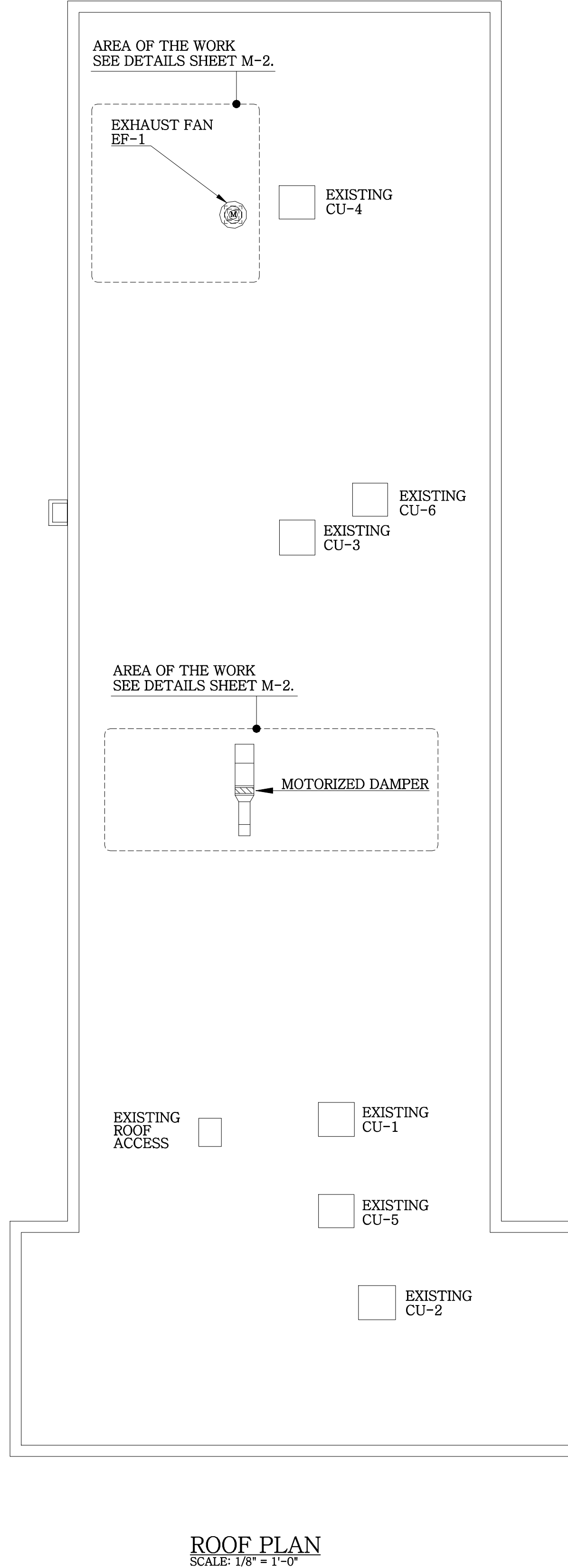
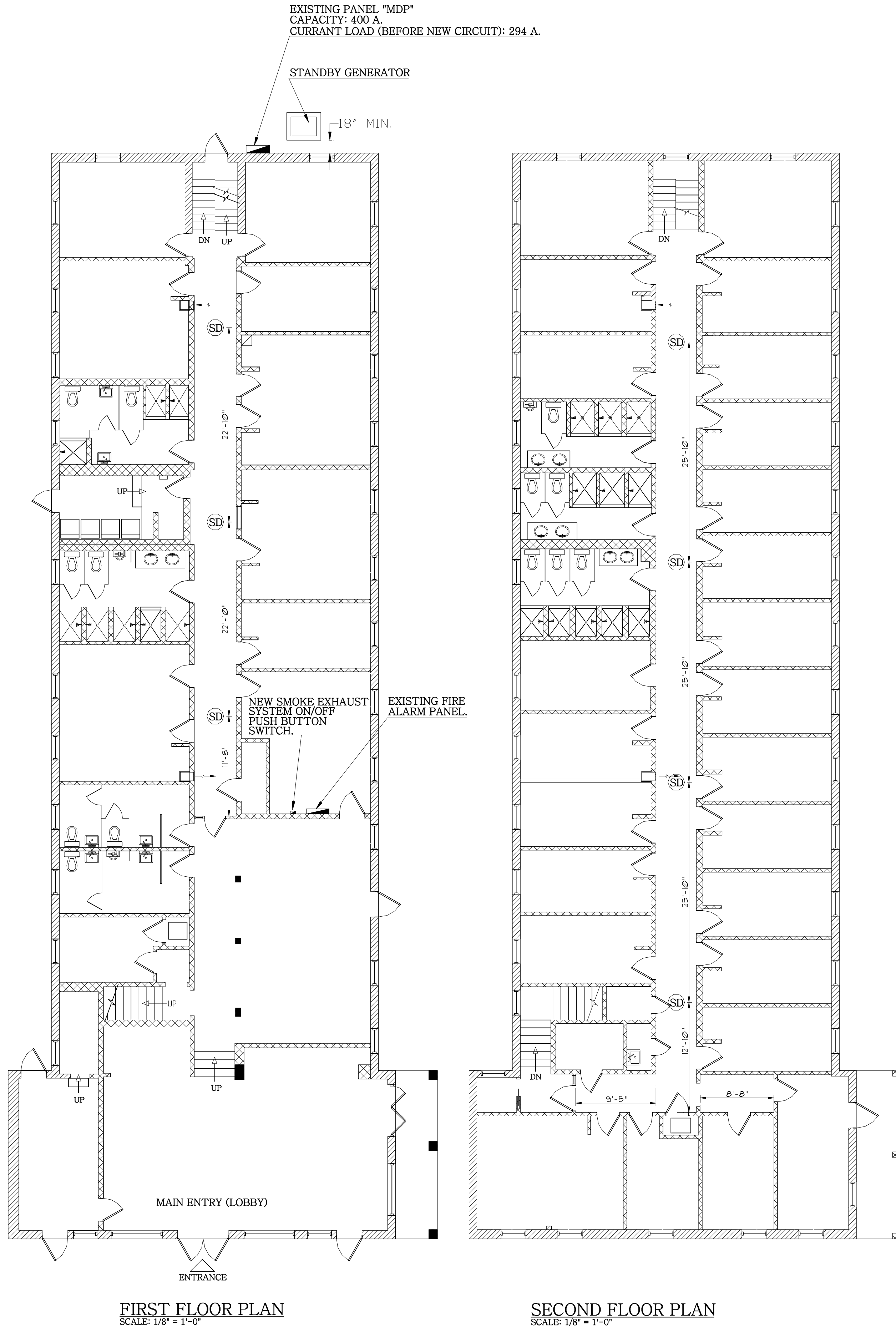
- SMOKE DETECTOR
- DISCONNECT SWITCH
- JUNCTION BOX
- ELECTRIC MOTOR

**SMOKE EXHAUST SYSTEM SEQUENCE OF OPERATION**

1. UNDER QUIESCENT CONDITIONS THE EXHAUST FAN AND THE MOTORIZED DAMPER ON/OFF SWITCHES AT THE UNITS ARE IN THE "ON" POSITION.
2. ACTIVATION OF ANY OF THE FOLLOWING WILL CAUSE THE SMOKE EXHAUST SYSTEM TO START:
  - a. ACTIVATION OF THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.
  - b. A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SUPERVISORY DEVICE.
  - c. ACTIVATION OF ANY OF THE SMOKE DETECTORS IN THE CORRIDORS.
3. DEACTIVATION OF THE SMOKE EXHAUST SYSTEM WILL BE THROUGH THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.

**SCOPE OF THE WORK:**

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING ELECTRICAL SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
  2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - A. ALL CIRCUIT BREAKERS.
    - B. ALL DISCONNECT SWITCHES.
    - C. ALL ELECTRICAL CONDUIT.
    - D. ALL WIRING DEVICES.
    - E. ALL POWER AND CONTROL WIRING.
- A. GENERAL:**
1. AS A MINIMUM ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
    - a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
    - b. NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA).
    - c. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA/NEC).
    - d. UNDERWRITERS LABORATORIES (UL); NOTE THAT THE ABOVE ENUMERATED CODES AND STANDARDS ARE SUBORDINATE TO UL.
  2. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
- B. MATERIALS:**
1. ALL WIRING SHALL HAVE 600 VOLT INSULATION TYPE TW, THW OR THWN FOR BRANCH CIRCUITS AND TYPE THW OR THN FOR MAIN FEEDERS OR AS SPECIFIED. MINIMUM SIZE WIRING SHALL BE #12 AWG.
  2. THE ELECTRICAL DESIGN IS BASED ON COPPER CONDUCTORS; WIRE SIZES #10 AND SMALLER SHALL BE TYPE TW; WIRE SIZES #8 AND LARGER SHALL BE TYPE THW OR AS SPECIFIED. WIRE SIZES #10 AND SMALLER SHALL BE SOLID COPPER AND IN SIZES #8 AND LARGER SHALL BE STRANDED COPPER.
  3. PROVIDE ALL FUSES FOR ALL EQUIPMENT WHERE FUSES ARE REQUIRED. SIZE ALL FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
  4. ALL ELECTRICAL WIRING SHALL BE IN CONDUIT (NO ROMEX, SX, ETC.). ALL CONDUIT SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIDGED GALVANIZED STEEL (RGS) EXCEPT THAT:
    - a. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN, OR ON WALLS AND/OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP AND/OR CORROSIVE CONDITIONS.
  5. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
  6. WHERE OPENINGS MUST BE FIRE SEALED, USE FIRE SEAL SIMILAR TO "OZ".
- C. METHODS:**
1. ALL FEEDERS, SUB FEEDERS AND BRANCH CIRCUITS SHALL BE PROPERLY PHASED BALANCED.
  2. WIREWAYS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS OTHERWISE NOTED.
  3. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS, EXACT LOCATIONS AND TYPE OF OUTLET FOR ALL ELECTRICAL EQUIPMENT.
  4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURES.
  5. ALL PULL AND JUNCTION BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT THEY WILL BE ACCESSIBLE AT ALL TIMES.
- D. TESTS:**
1. CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR ALL REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION AS THE WORK PROGRESSES
  2. CONTRACTOR SHALL PERFORM TESTS ON ALL INSTALLED ELECTRICAL EQUIPMENT TO INSURE THAT ALL COMPONENTS OPERATE AS REQUIRED TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. PERFORM ANY ADDITIONAL TEST AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND IN ACCORDANCE WITH ANY LOCAL CODES AND ORDINANCES.



MIAMI BEACH  
BUILDING DEPARTMENT  
Reviewed For Compliance

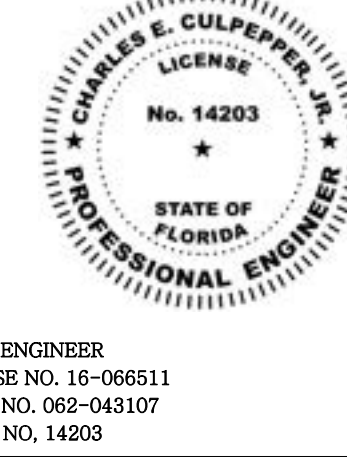
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PROJECT NAME  
SMOKE EXHAUST  
FAN SYSTEM

SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139



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STATE OF ILLINOIS LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

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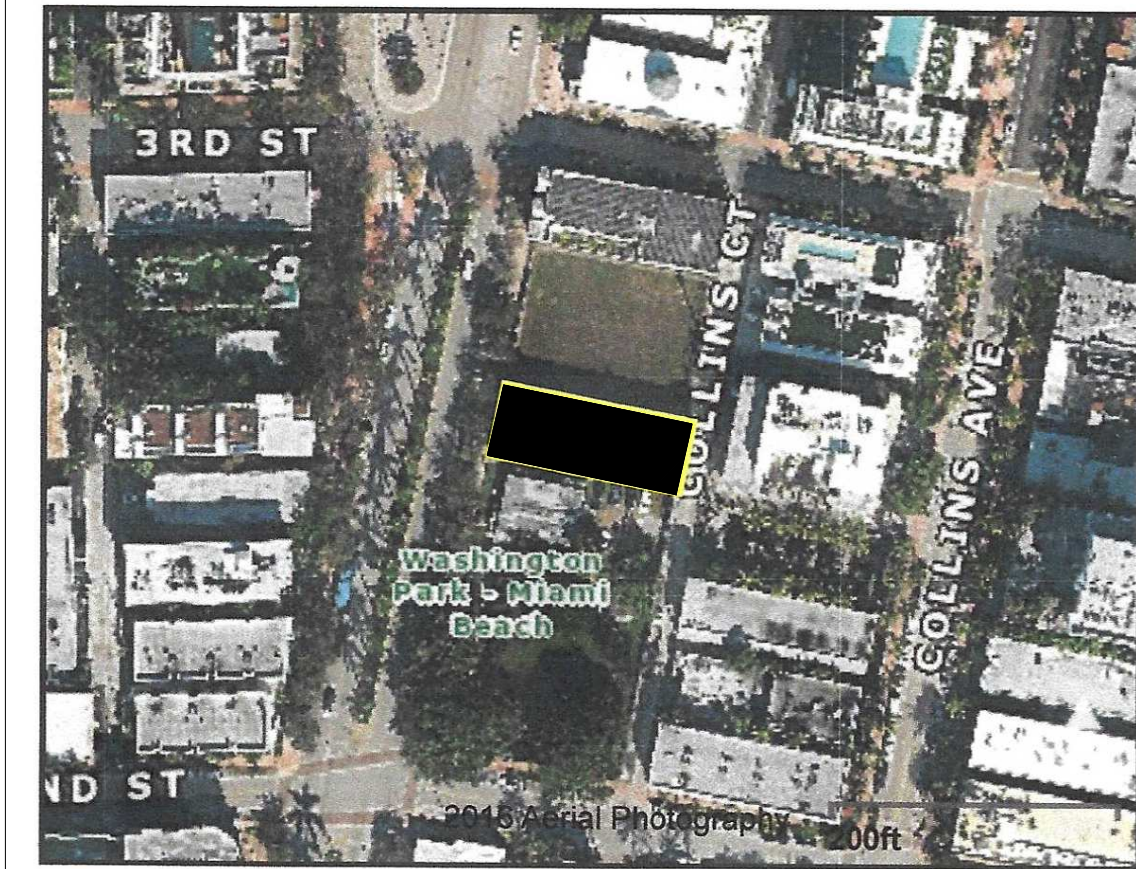
Issue Date: SEPTEMBER 15, 2020

| Revisions |      |             |
|-----------|------|-------------|
| No.       | Date | Description |
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**CULPEPPER**

Project Number: 20-169 Drawn By: CEC  
 Designed By: CEC Checked By: CEC  
 Sheet Title: ELECTRICAL DETAILS  
 Sheet Number: E-1 1 OF 1

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**AERIAL SITE PLAN: 235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA  
N.T.S.**



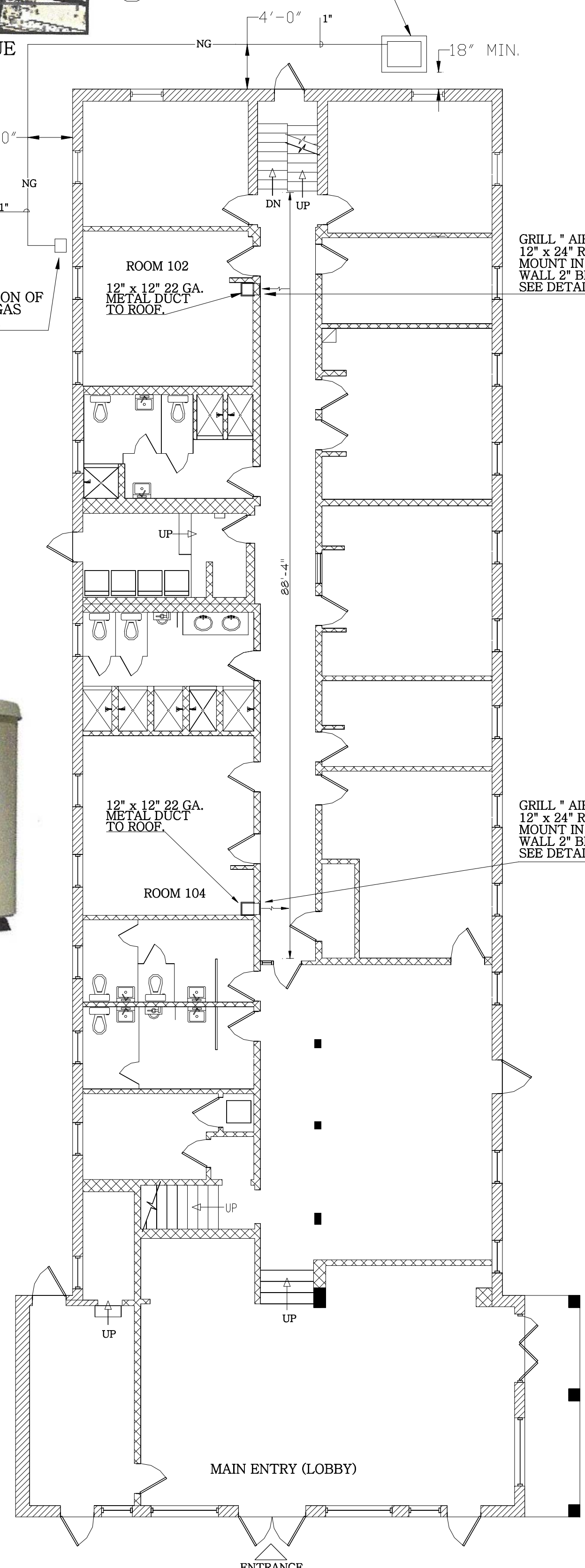
**GREENHECK  
Model: CUBE-141-5  
Belt Drive Upblast Centrifugal Roof Exhaust Fan**



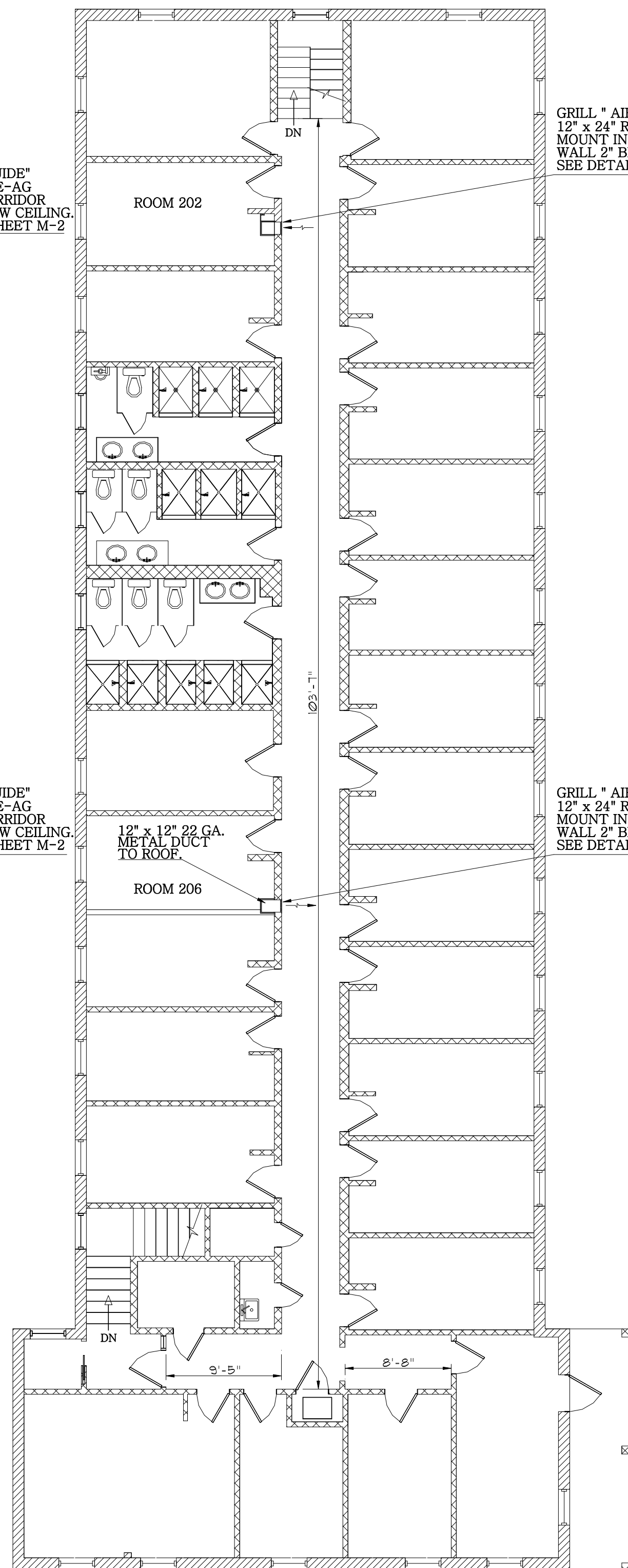
**GENERAC  
Model: 6698  
Standby Generator  
7.5 KW**



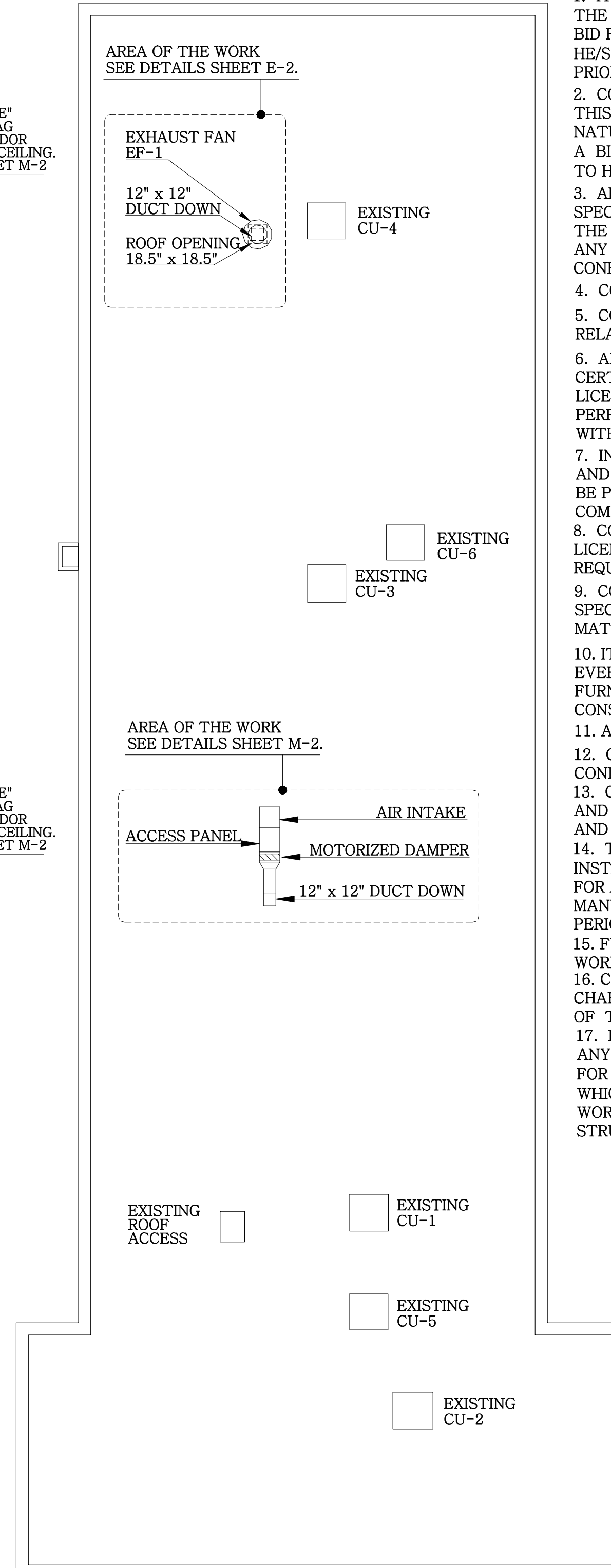
**DATON MFG  
Model: 5NKK3  
Motorized Damper  
120 Volts**



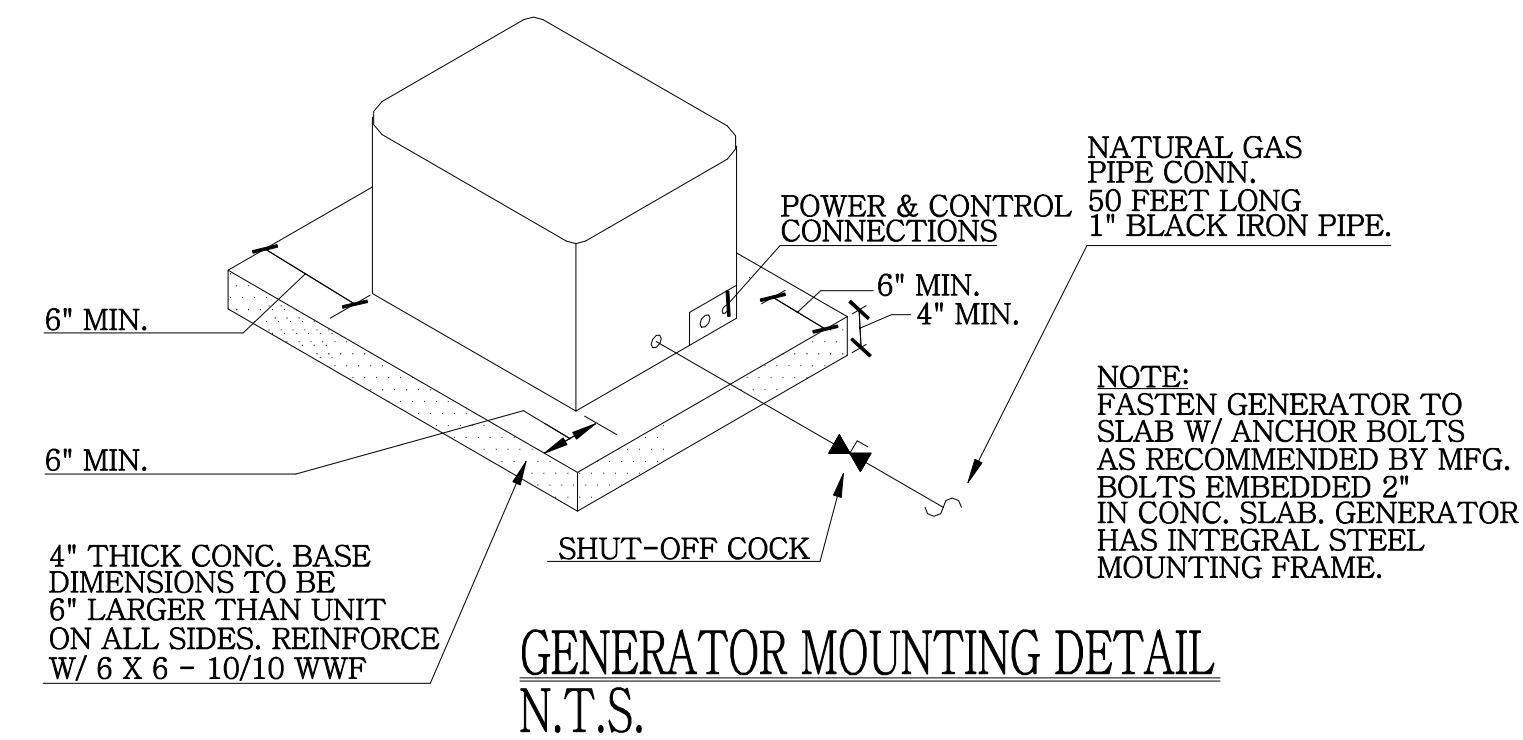
**FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"**



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



**ROOF PLAN  
SCALE: 1/8" = 1'-0"**



**GENERATOR MOUNTING DETAIL  
N.T.S.**

**CODES:**

THE CODES IN EFFECT AT THE TIME OF THIS PLAN SUBMISSION ARE THE FLORIDA BUILDING CODE, EXISTING 2017 AND THE NEC 2014 (NFPA 70).

**SCOPE OF THE WORK:**

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING SMOKE EXHAUST SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
  - A. EXHAUST FAN.
  - B. MOTORIZED DAMPER.
  - C. STANDBY GENERATOR.
  - D. AIR DUCTS AND GRILLES.
  - E. ALL CONTROLS.
  - F. ALL ELECTRICAL POWER AND CONTROL WIRING.
  - G. ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
4. ALL EQUIPMENT SPECIFIED BY MANUFACTURER'S NUMBER SHALL INCLUDE ALL ACCESSORIES, CONTROLS, ETC. LISTED IN THE CATALOG AS STANDARD WITH THE EQUIPMENT. OPTIONAL OR ADDITIONAL ACCESSORIES SHALL BE FURNISHED AS SPECIFIED.
5. REFER TO ALL DRAWINGS AND COOPERATE WITH ALL OTHER TRADES IN ORDER PROPERLY COORDINATE THE WORK.

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11. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
12. CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
14. THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
15. FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
16. CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
17. IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

**MECHANICAL NOTES:**

- MATERIALS:**
1. ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
  2. ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.
  3. ALL STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A-36.
  4. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A187-97.
  5. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- METHODS:**
1. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
  2. PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
  3. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

**MIAMI BEACH**  
BUILDING DEPARTMENT  
Reviewed For Compliance  
**BC2013662**  
08/03/2021 2:54:01 PM

**Architectural + Engineering**

**CHARLES E. CULPEPPER, JR.**  
825 BRICKELL BAY DRIVE  
SUITE 940  
MIAMI, FLORIDA 33131  
TEL: (305) 572-5189  
CELL: (305) 402-7517  
EMAIL: sjirap@bellsouth.net

ARCHITECTURAL - CIVIL - ELECTRICAL - ENVIRONMENTAL  
MECHANICAL - STRUCTURAL  
MIAMI - NEW YORK - CHICAGO

**PROJECT NAME**  
**SMOKE EXHAUST FAN SYSTEM**

**SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139**



CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-066511  
STATE OF ILLINOIS LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

| Revisions |      |             |
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| No.       | Date | Description |
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|           |      |             |

**CULPEPPER**

Project Number: **20-169** Drawn By: **CEC**  
Designed By: **CEC** Checked By: **CEC**

Sheet Title: **EXHAUST FAN FLOOR PLANS**

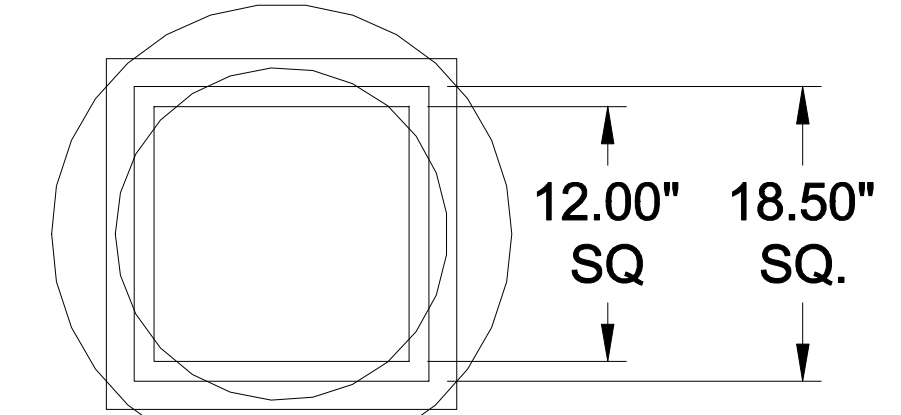
Sheet Number: **M-1 1 OF 2**

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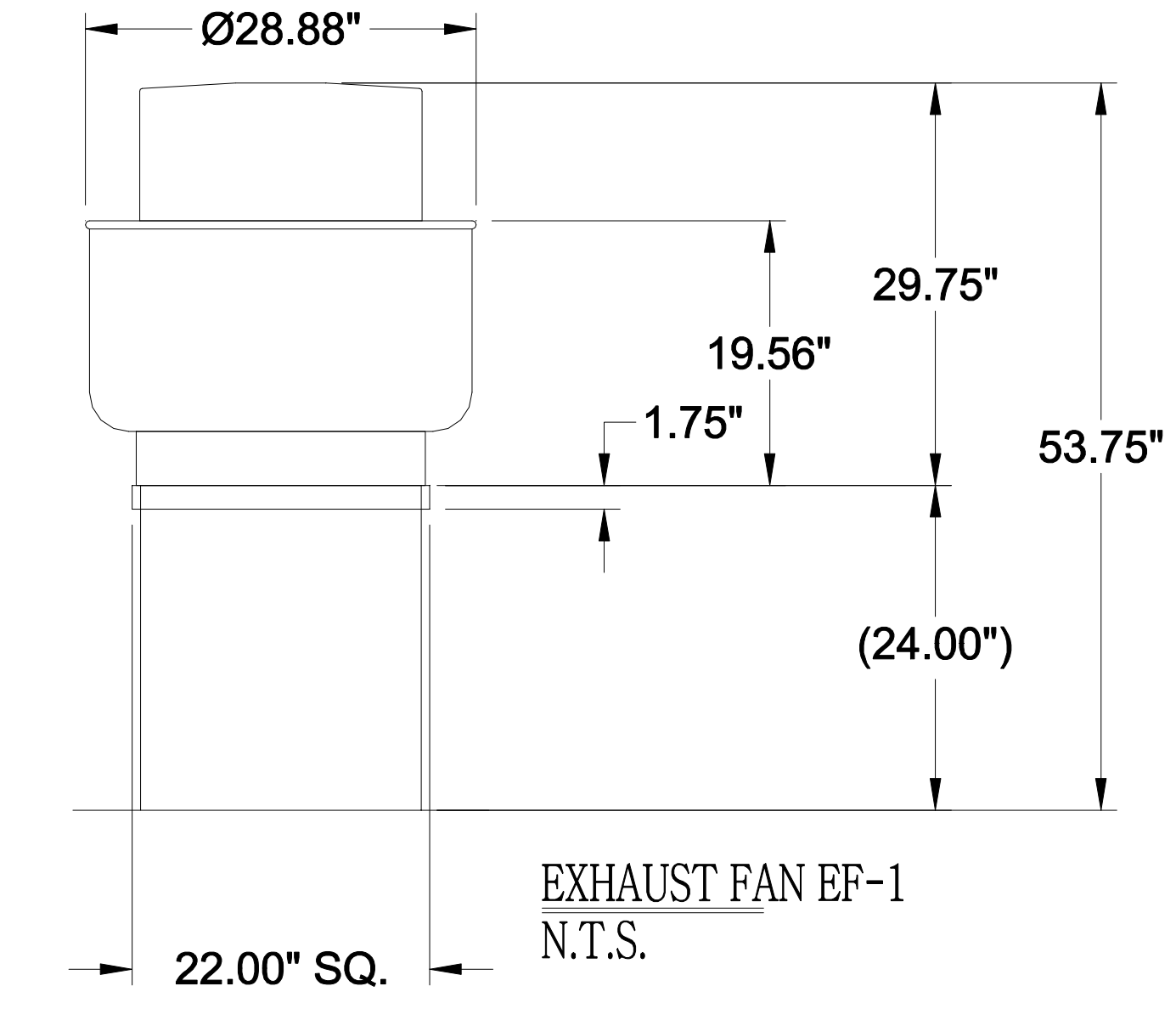
**Belt Drive Upblast Centrifugal Roof Exhaust Fan**

| MARK INFORMATION |        |            | FAN INFORMATION |                           |         |                      |              | MOTOR INFORMATION |          |           |           |          |          |
|------------------|--------|------------|-----------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY              | MARK   | MODEL      | VOLUME (CFM)    | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP)         | V/C/P    | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1                | Mark 2 | CUBE-141-5 | 1,500           | 0.75                      | 1,228   | 0.39                 | 78           | 0.5               | 115/60/1 | OP        | 1725      | 1        | 9.8      |

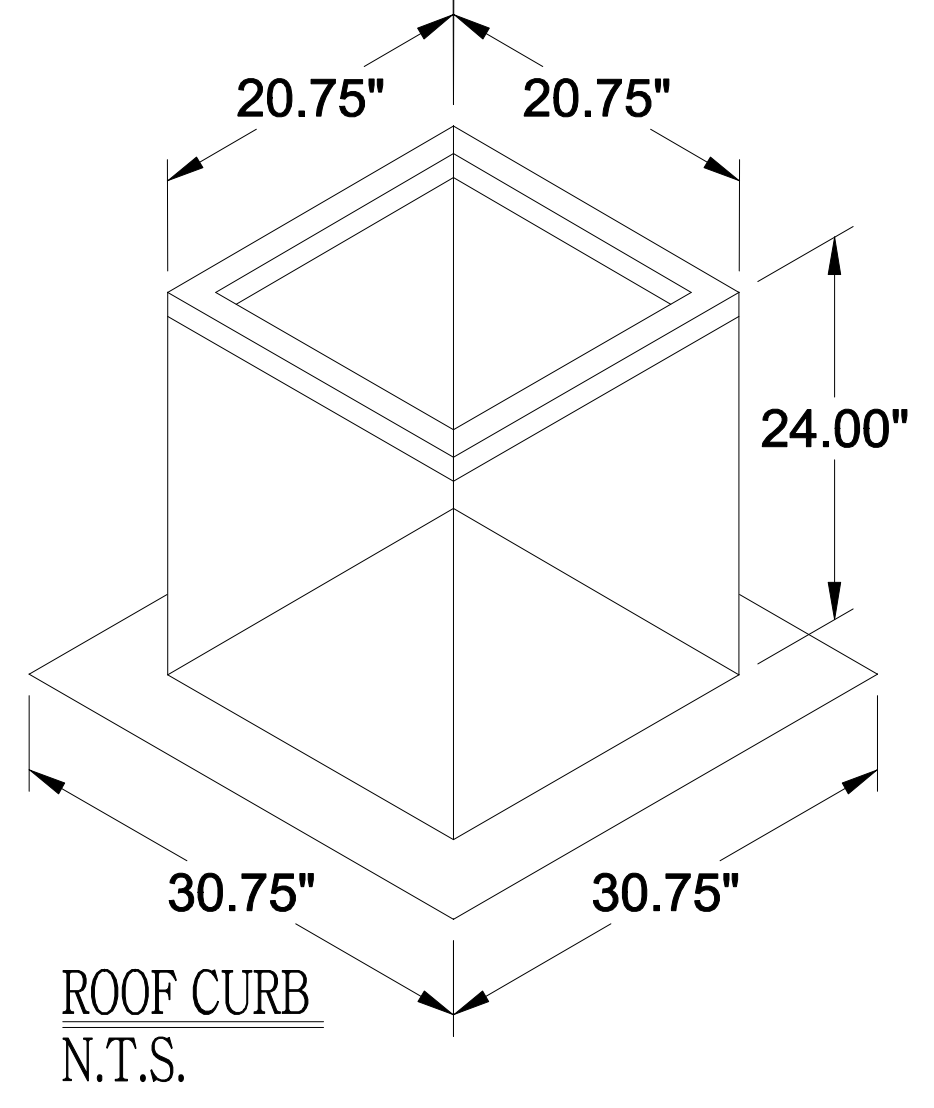
\*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



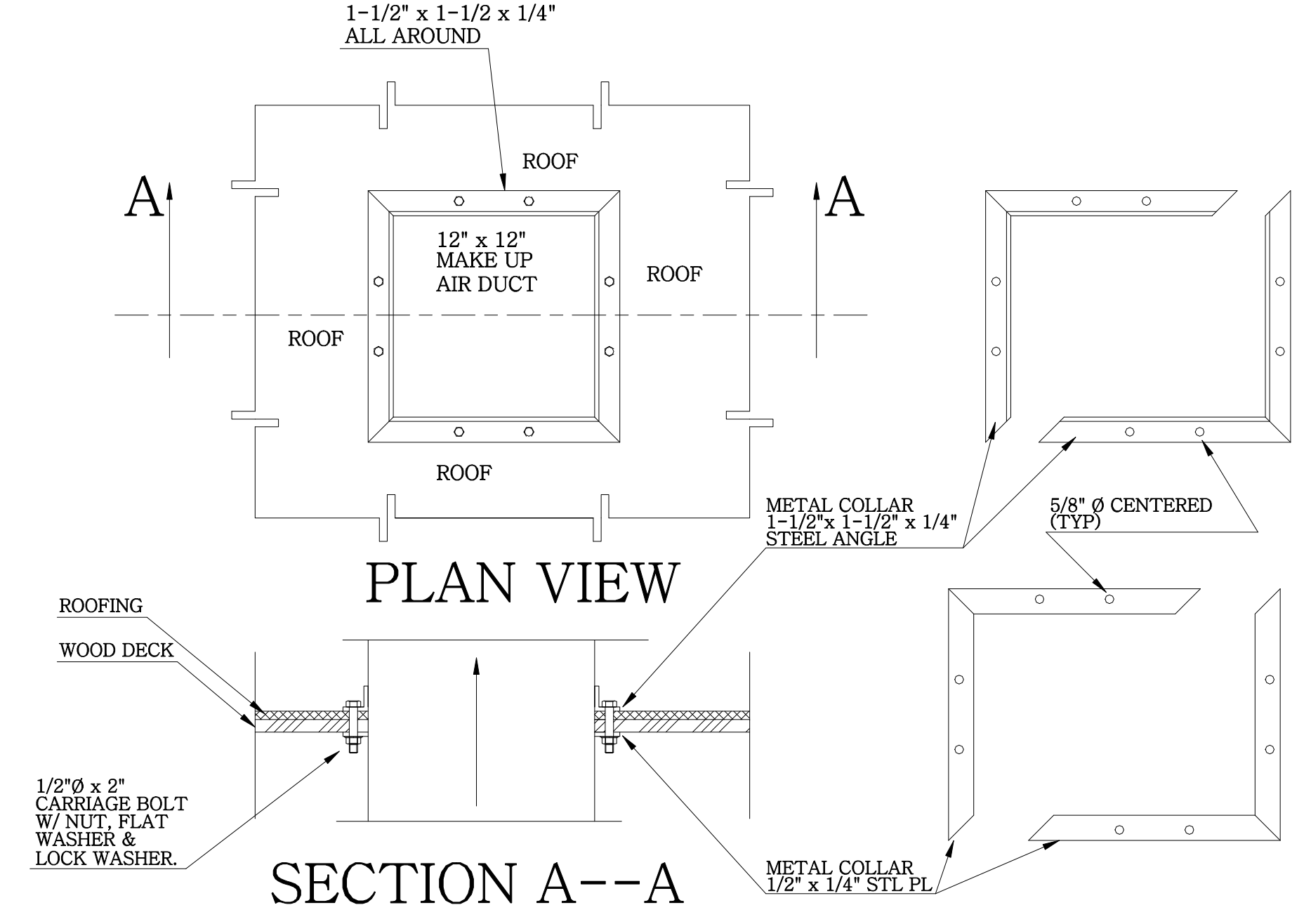
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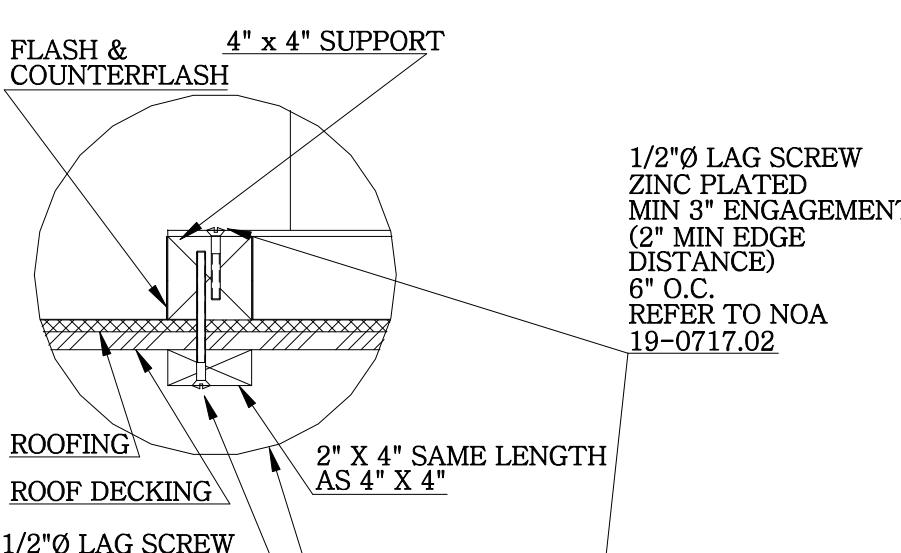
EXHAUST FAN EF-1  
N.T.S.



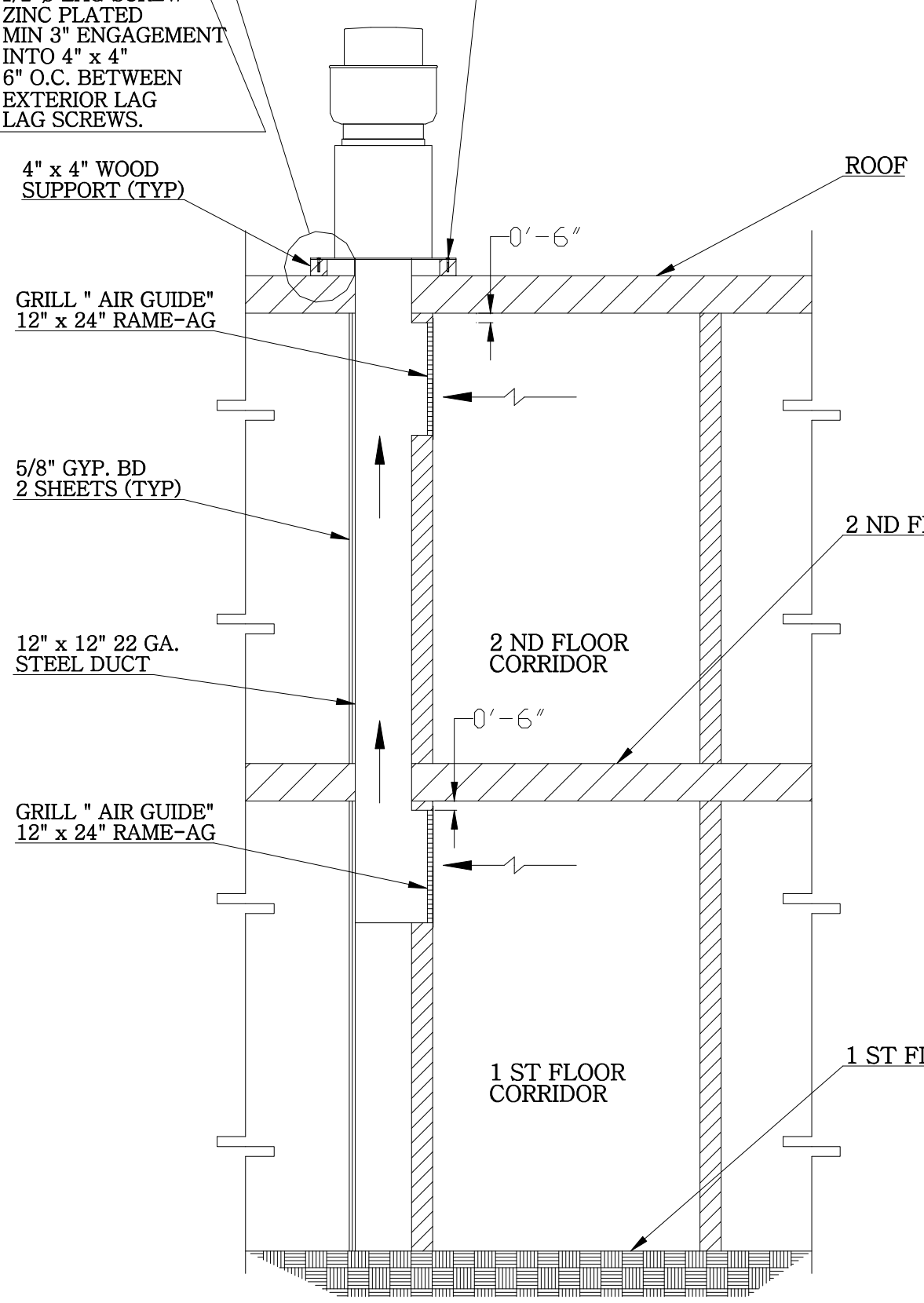
ROOF CURB  
N.T.S.



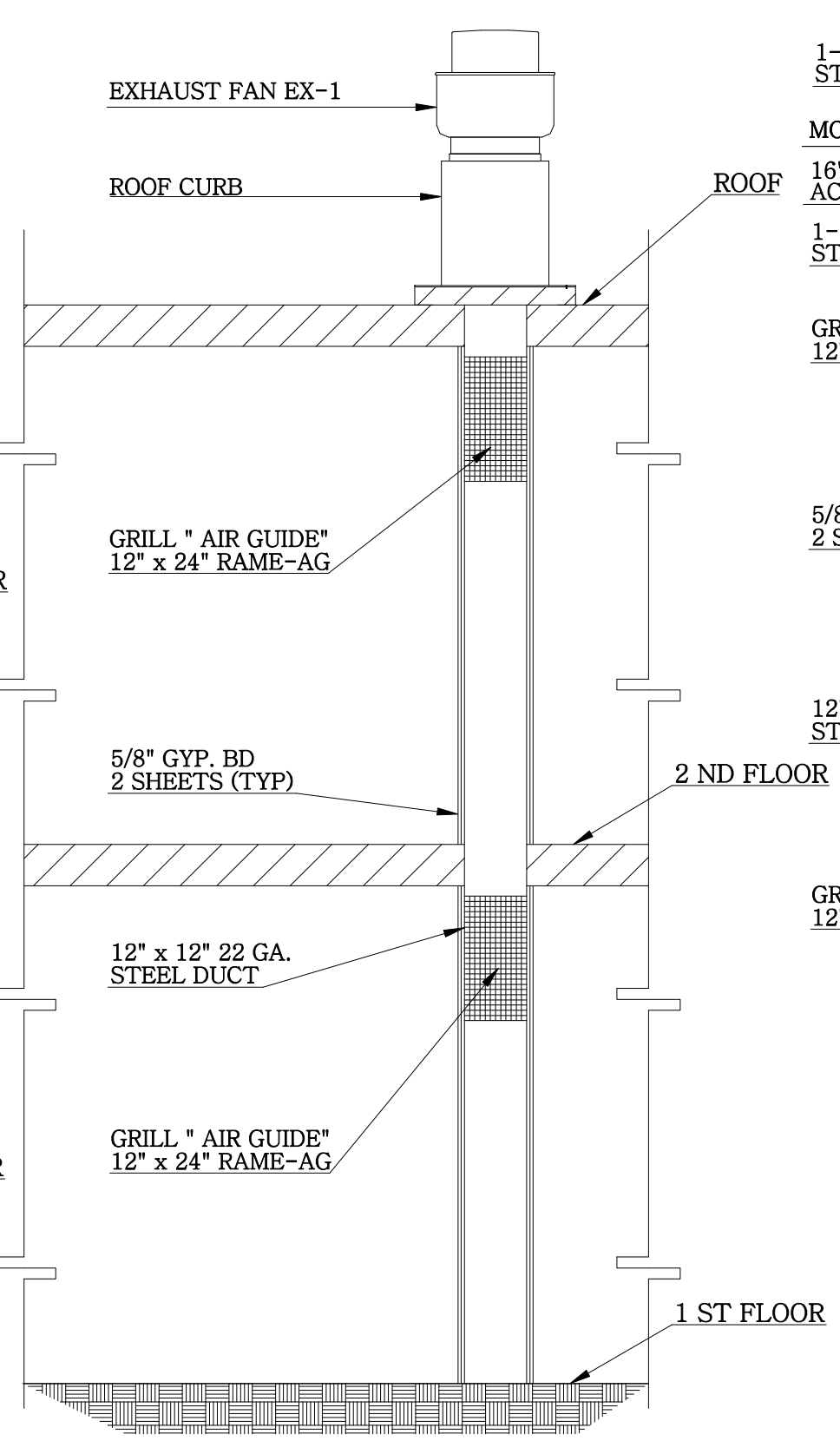
SECTION A--A



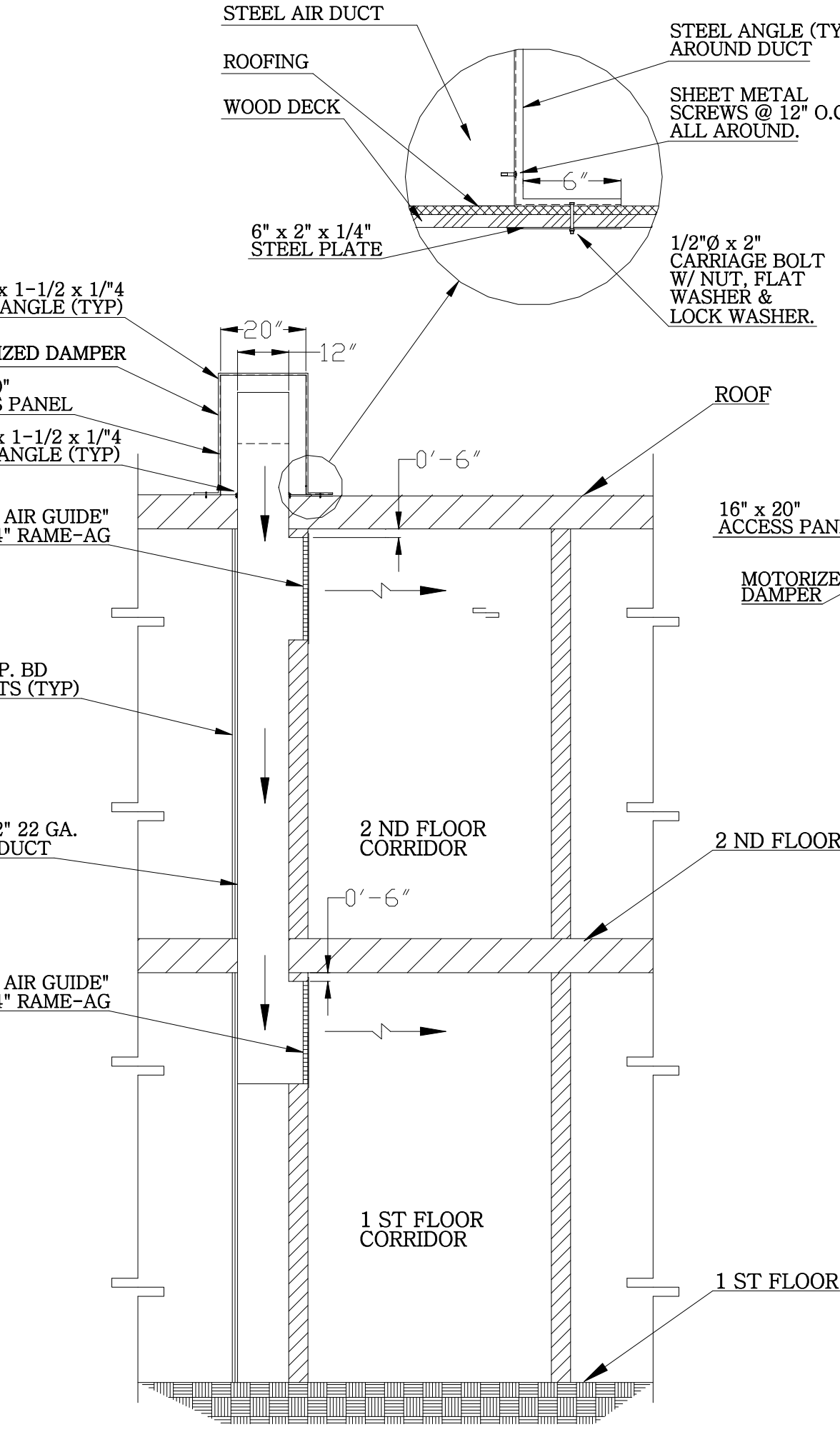
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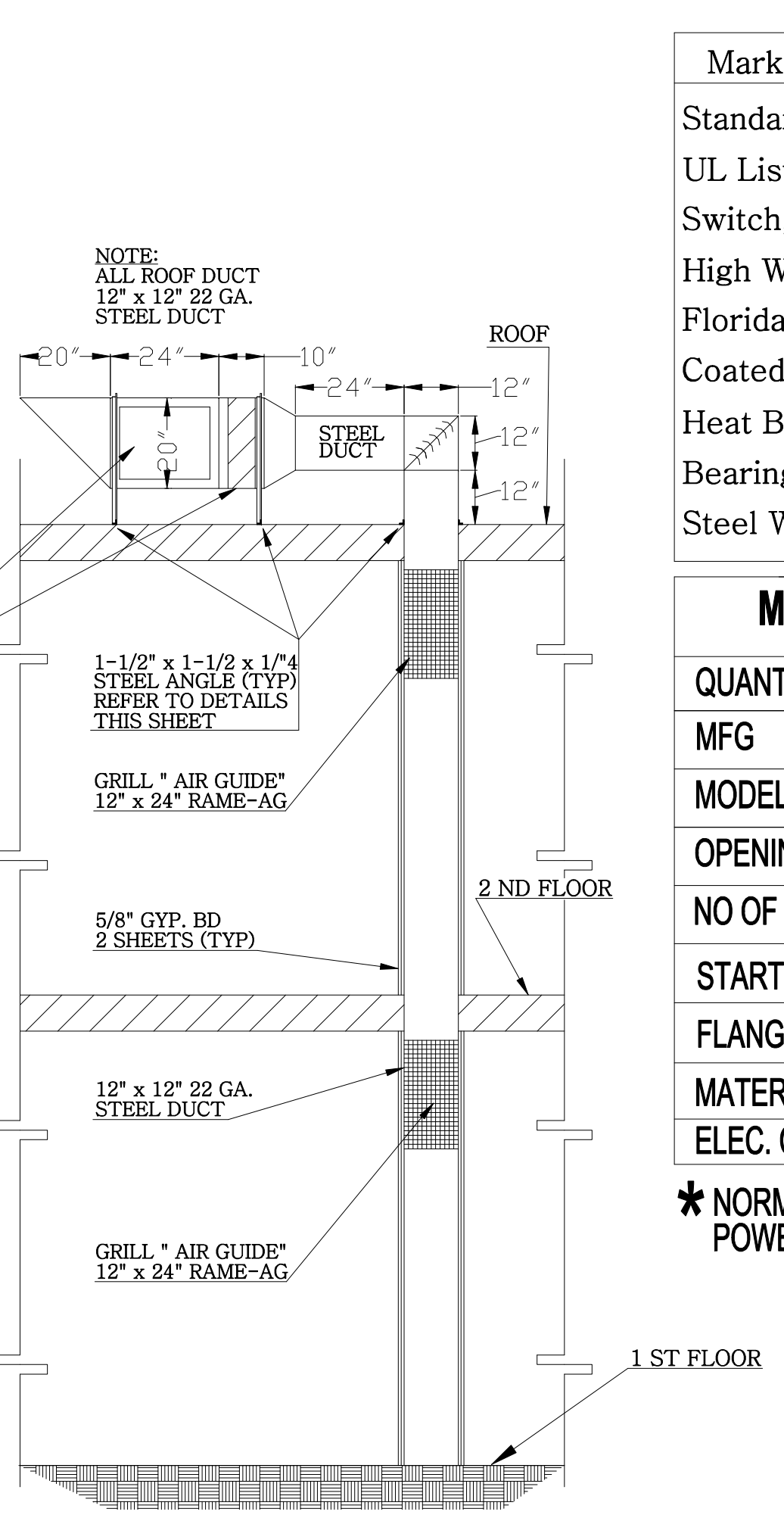
NORTH-SOUTH SECTION THRU EXHAUST DUCT  
N.T.S.



EAST-WEST SECTION THRU EXHAUST DUCT  
N.T.S.



NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT  
N.T.S.



EAST-WEST SECTION THRU MAKE-UP AIR DUCT  
N.T.S.

Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square  
UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)  
Switch, NEMA-3R, Toggle, Shipped with Unit  
High Wind Rated (+/- 150 PSF Rating)  
Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02  
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc  
Heat Baffle (Attached)  
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)  
Steel Wheel Material

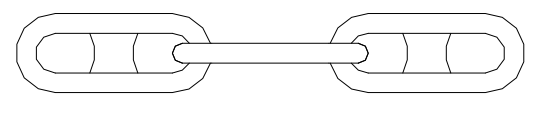
| MOTORIZED DAMPER |             |
|------------------|-------------|
| QUANTITY         | 1           |
| MFG              | DATON MFG   |
| MODEL #          | 5NKK3       |
| OPENING REQUIRED | 20" x 20"   |
| NO OF "F" PANELS | 1           |
| START            | AUTOMATIC * |
| FLANGE WIDTH     | 1/2"        |
| MATERIAL         | ALUMINUM    |
| ELEC. CHAR.      | 120/60/1    |

\* NORMAL STATUS: SPRING CLOSED, POWER OPEN

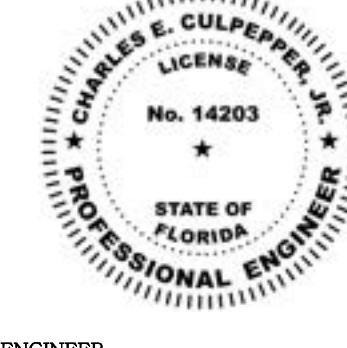
| STANDBY GENERATOR      |                 |
|------------------------|-----------------|
| QUANTITY               | 1               |
| MFG                    | GENERAC         |
| MODEL #                | 6998            |
| RATED WATTS            | 7.5 KW          |
| FUEL TYPE              | NATURAL GAS     |
| FLOW RATE              | 117,000 BTU/HR. |
| AMPERES                | 25 NG           |
| START                  | AUTOMATIC       |
| PHASE                  | SINGLE          |
| TRANSFER SW            | YES             |
| CIRCUITS               | 8               |
| ELEC. CHAR.            | 240/60/1        |
| ENCLOSURE              | STEEL/NEMA 3R   |
| MOUNTING PAD           | ATTACHED        |
| BATTERY REQUIRED       | YES             |
| BATTERY INCLUDED       | NO              |
| DIMENSIONS (L x W x H) | 36 x 27 x 36    |
| WEIGHT                 | 280 LBS         |

PROJECT NAME

SMOKE EXHAUST  
FAN SYSTEM



SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139



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REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-096511  
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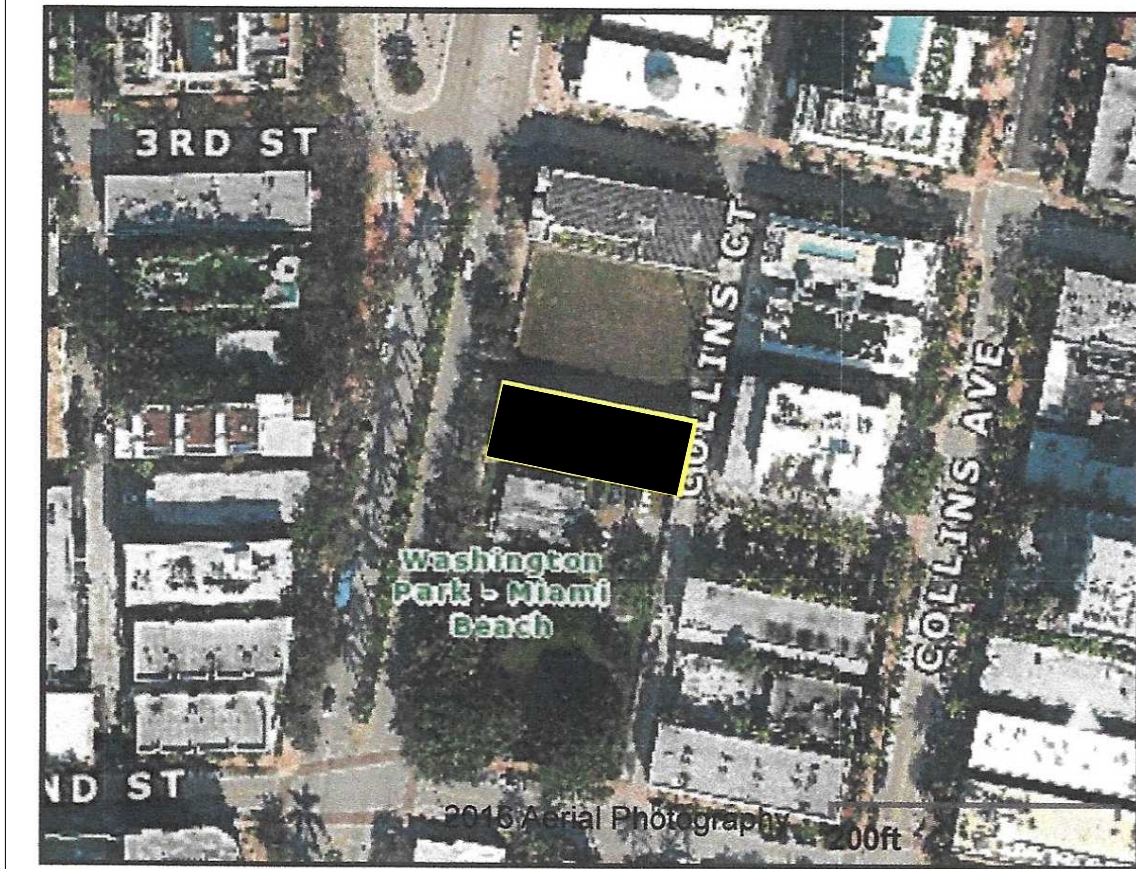
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|                        |                 |
|------------------------|-----------------|
| <b>CULPEPPER</b>       |                 |
| Project Number: 20-169 | Drawn By: CEC   |
| Designed By: CEC       | Checked By: CEC |
| Sheet Title: DETAILS   |                 |
| Sheet Number: M-2      | 2 OF 2          |

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AERIAL SITE PLAN: 235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA  
N.T.S.



GREENHECK  
Model: CUBE-141-5  
Belt Drive Upblast Centrifugal Roof Exhaust Fan



GENERAC  
Model: 6698  
Standby Generator  
7.5 KW



DATON MFG  
Model: 5NKK3  
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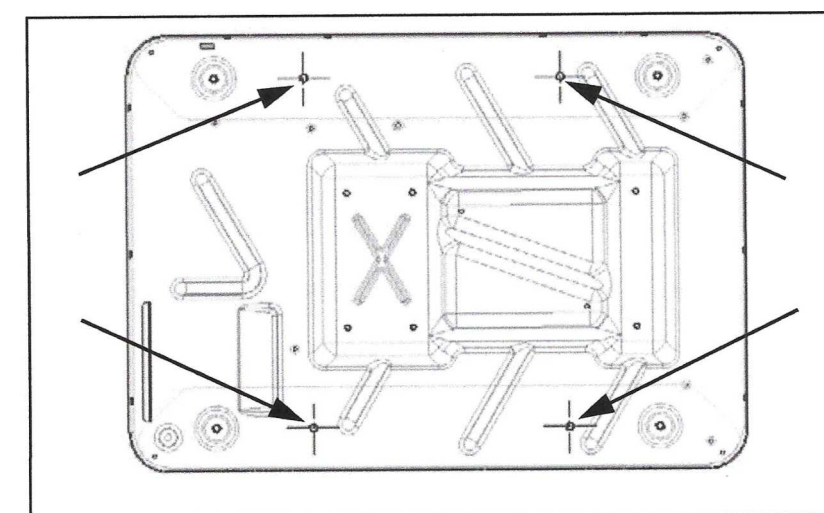
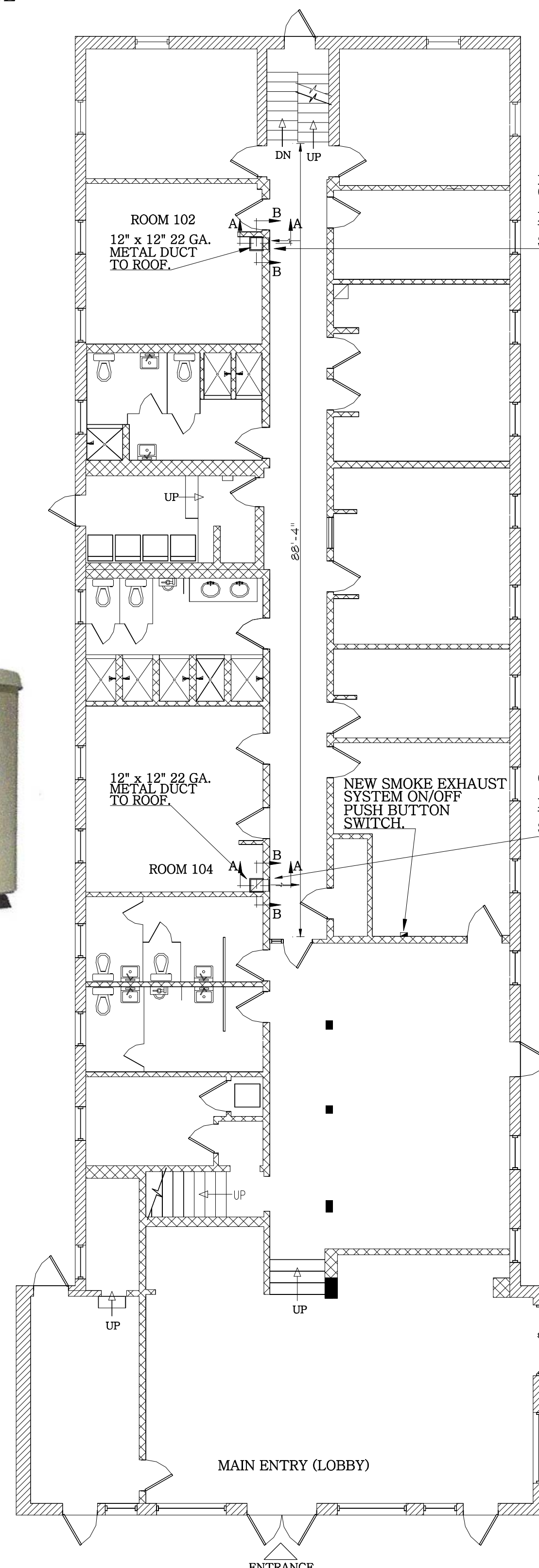


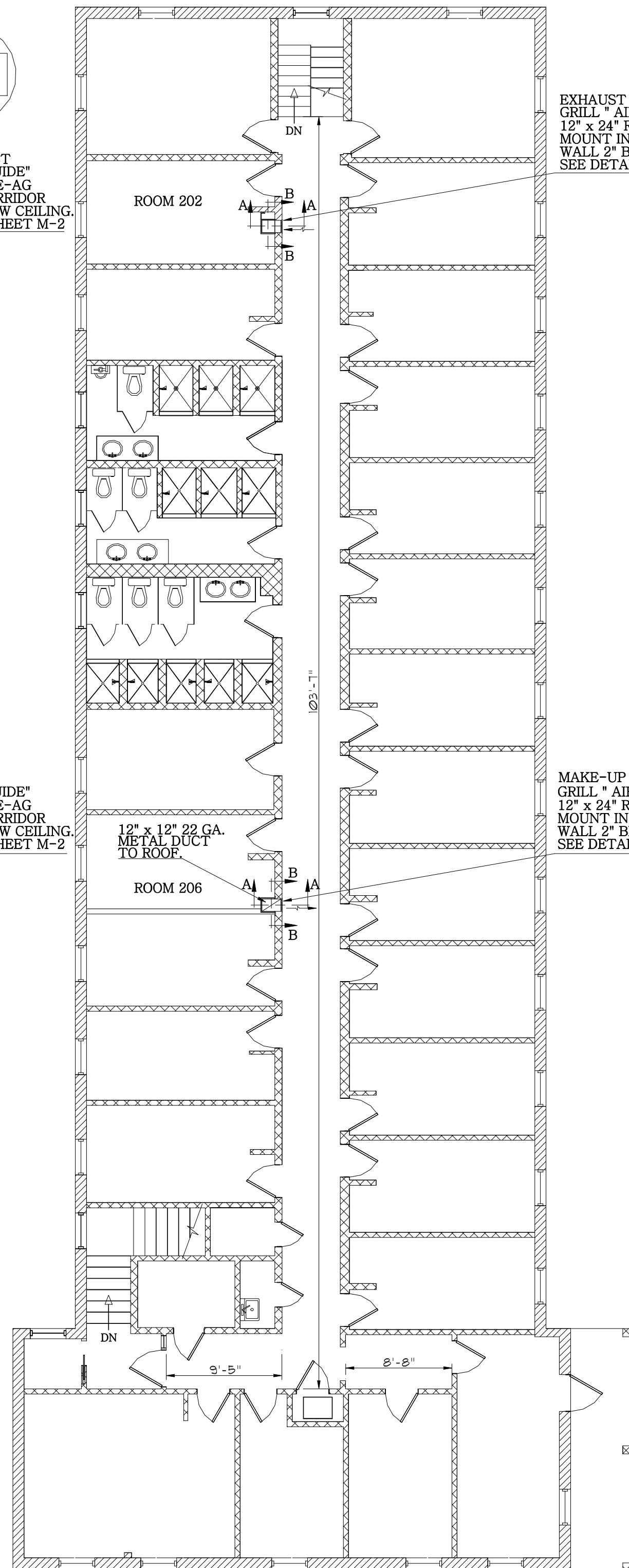
Figure 4-1. Mounting Hole Location

- NOTES:
1. THE TOP OF THE GENERATOR CARTON HAS A TEMPLATE THAT CAN BE USED TO MARK THE MOUNTING HOLES.
  2. USE 5/16" ANCHOR BOLTS.
  3. GENERATOR MUST BE LEVEL WITHIN 0.5 INCHES.
  4. REFER TO SHEET P-1 FOR GAS PIPING LOCATIONS.
  5. REFER TO SHEET S-1 FOR INFORMATION ON STRUCTURAL SUPPORTS.
  6. REFER TO SHEET E-1 FOR INFORMATION ON POWER AND CONTROL WIRING.

LOCATION OF FOUR MOUNTING HOLES INSIDE THE GENERATOR ENCLOSURE  
N.T.S.



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



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

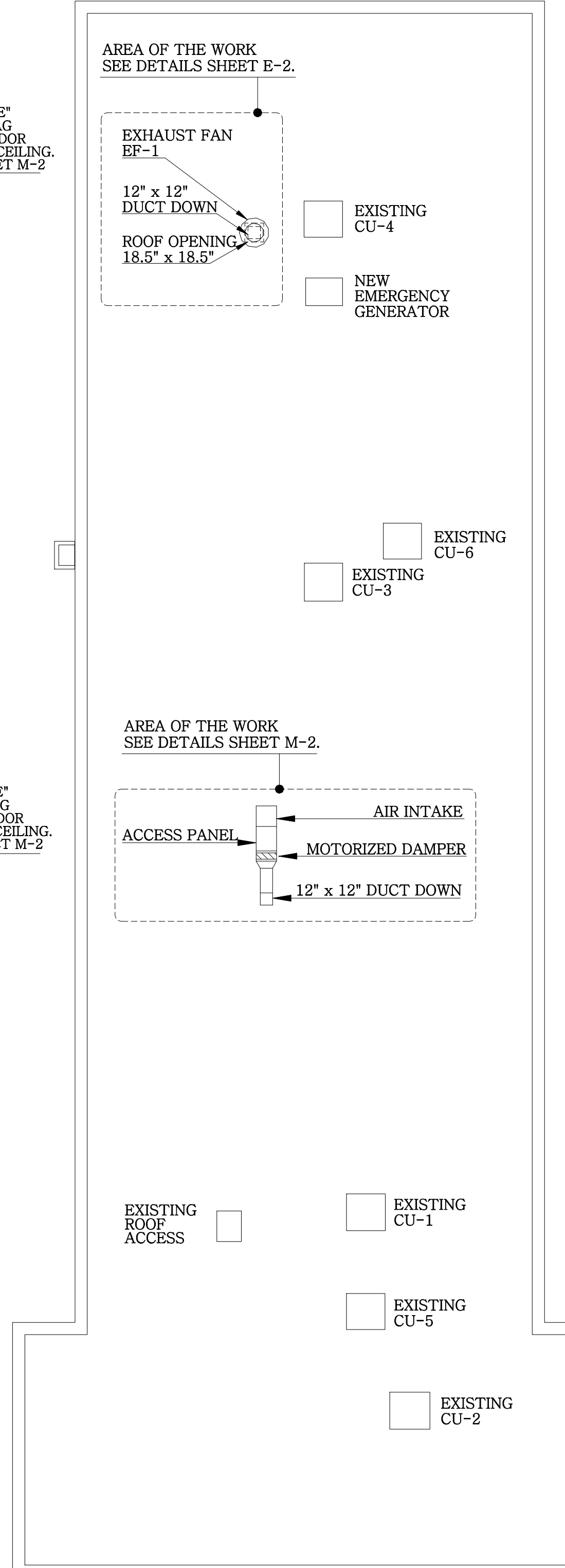
SHOP DRAWING / SUBMITTAL REVIEW

APPROVED  APPROVED WITH CHANGES NOTED  
 REVISE AND RESUBMIT  REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION. COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: RPA DATE: 7/15/21

RICARDO PEREZ DE ALEJO  
RPA ENGINEERING, INC.



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

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10. IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO MEET THE OBJECTIVES OF THE CONSTRUCTION AS DELINEATED HEREIN.
11. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
12. CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
14. THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
15. FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
16. CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
17. IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

MECHANICAL NOTES:

1. ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
2. ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.

METHODS:

1. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
3. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

MIAMI BEACH BUILDING DEPARTMENT  
Reviewed For Compliance

Architectural + Engineering  
BC2013662  
08/03/2021 2:54:01 PM

CHARLES E. CULPEPPER, JR.  
225 BRICKELL BAY DRIVE  
SUITE 940  
MIAMI, FLORIDA 33131  
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CELL: (305) 402-7517  
EMAIL: sjrap@bellsouth.net

ARCHITECTURAL, CIVIL, ELECTRICAL, ENVIRONMENTAL  
MECHANICAL, STRUCTURAL  
MIAMI NEW YORK CHICAGO

PROJECT NAME  
SMOKE EXHAUST FAN SYSTEM

SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-066511  
STATE OF ILLINOIS LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

charles e culpepper  
Digitally signed by charles e culpepper  
Date: 2021.07.06 23:37:58 -04'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED BY CHARLES E. CULPEPPER, JR. (FLA PE LISC 14203) ON THE DATE INCLUDED WITHIN THE DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATED CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Issue Date: JUNE 23, 2021

| Revisions |      |             |
|-----------|------|-------------|
| No.       | Date | Description |
|           |      |             |
|           |      |             |
|           |      |             |

CULPEPPER

Project Number: 20-169 Drawn By: CEC  
 Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN FLOOR PLANS

Sheet Number: M-1 1 OF 2

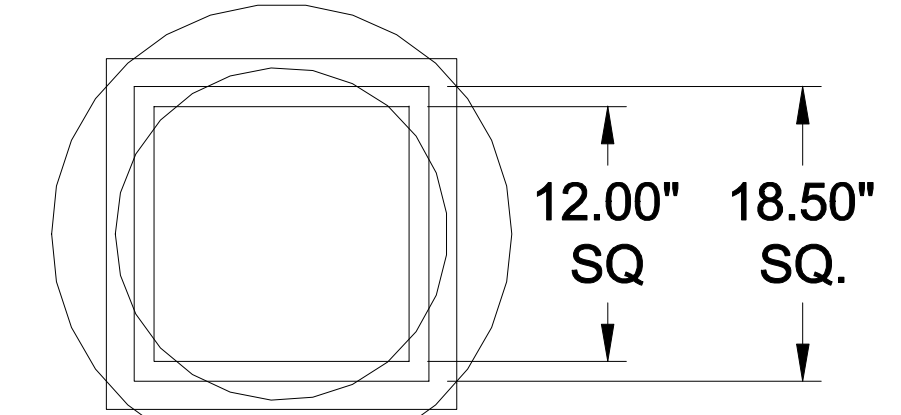
THE CONTENTS OF THIS DOCUMENT, ITS DESIGNS AND DRAWINGS ARE THE COPYRIGHTED PROPERTY OF CHARLES E. CULPEPPER, JR. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF CHARLES E. CULPEPPER, JR. THE GENERAL CONTRACTOR AND ALL TRADES PERFORMING WORK ON THIS PROJECT SHALL BE EXCLUSIVELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AND WITH REPORTING ANY DISCREPANCIES TO CHARLES E. CULPEPPER, JR. BEFORE COMMENCING ANY WORK.

CHARLES E. CULPEPPER, JR.  
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ARCHITECTURAL, CIVIL, ELECTRICAL, ENVIRONMENTAL  
MECHANICAL, STRUCTURAL  
MIAMI · NEW YORK · CHICAGO

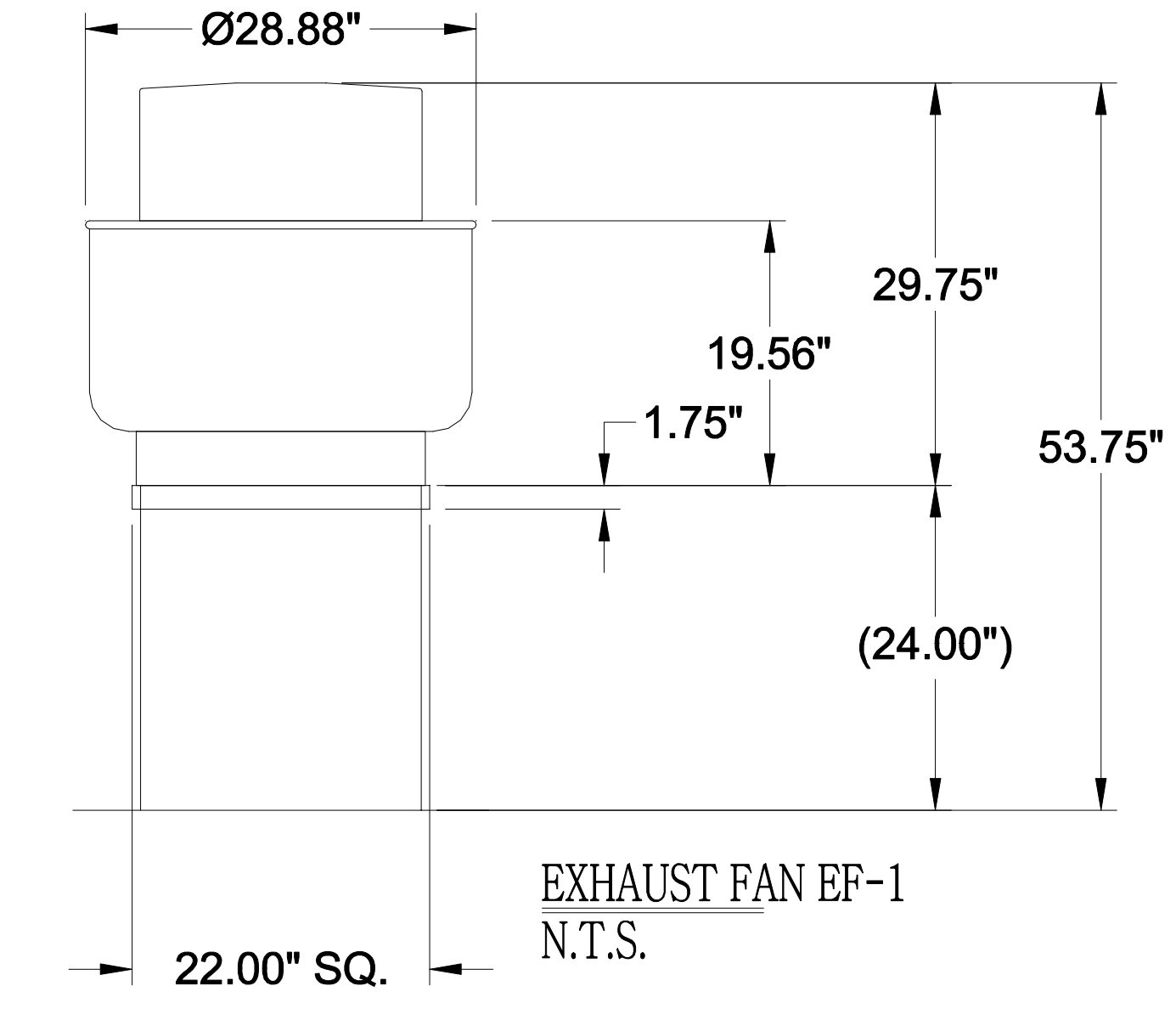
**Belt Drive Upblast Centrifugal Roof Exhaust Fan**

| MARK INFORMATION |        |            | FAN INFORMATION |                           |         |                      |              | MOTOR INFORMATION |          |           |           |          |          |
|------------------|--------|------------|-----------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY              | MARK   | MODEL      | VOLUME (CFM)    | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP)         | V/C/P    | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1                | Mark 2 | CUBE-141-5 | 1,500           | 0.75                      | 1,228   | 0.39                 | 78           | 0.5               | 115/60/1 | OP        | 1725      | 1        | 9.8      |

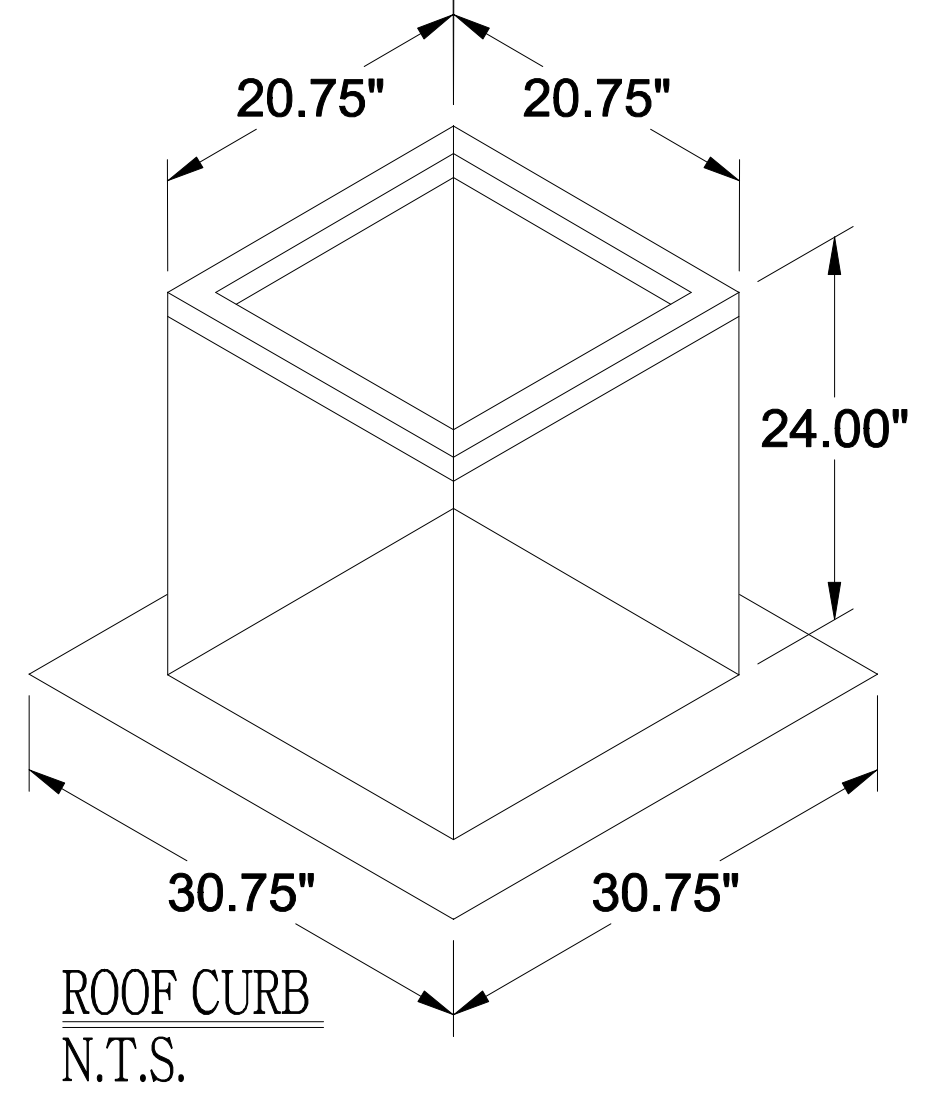
\*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



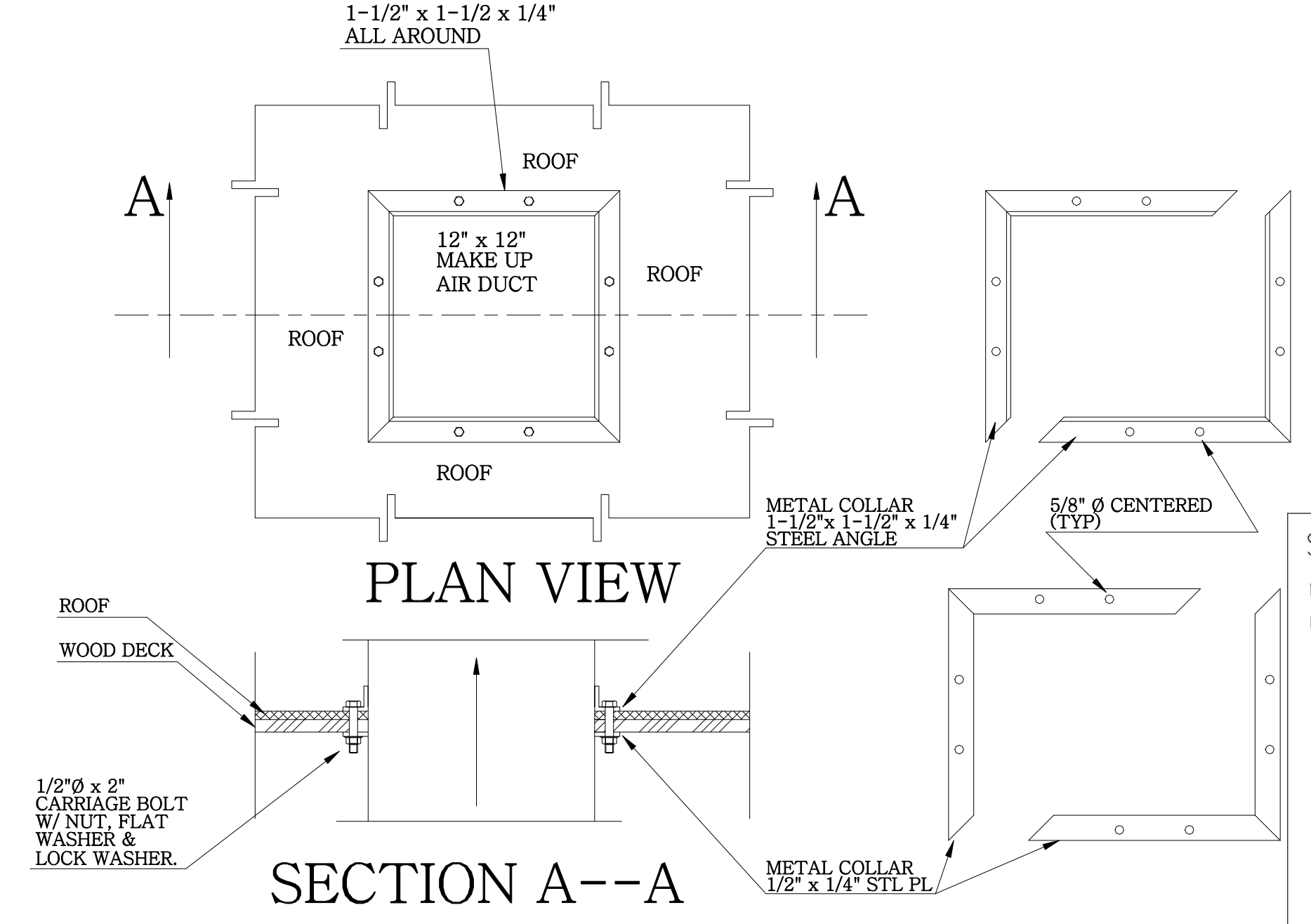
ROOF OPENING = 18.50" SQ.  
EXHAUST DUCT SIZE = 12.00" SQ.



EXHAUST FAN EF-1  
N.T.S.



ROOF CURB  
N.T.S.



SECTION A--A

SHOP DRAWING / SUBMITTAL REVIEW

APPROVED     APPROVED WITH CHANGES NOTED  
 REVISE AND RESUBMIT     REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: *RPA*    DATE: 7/15/21

RICARDO PEREZ DE ALEJO  
RPA ENGINEERING, INC.

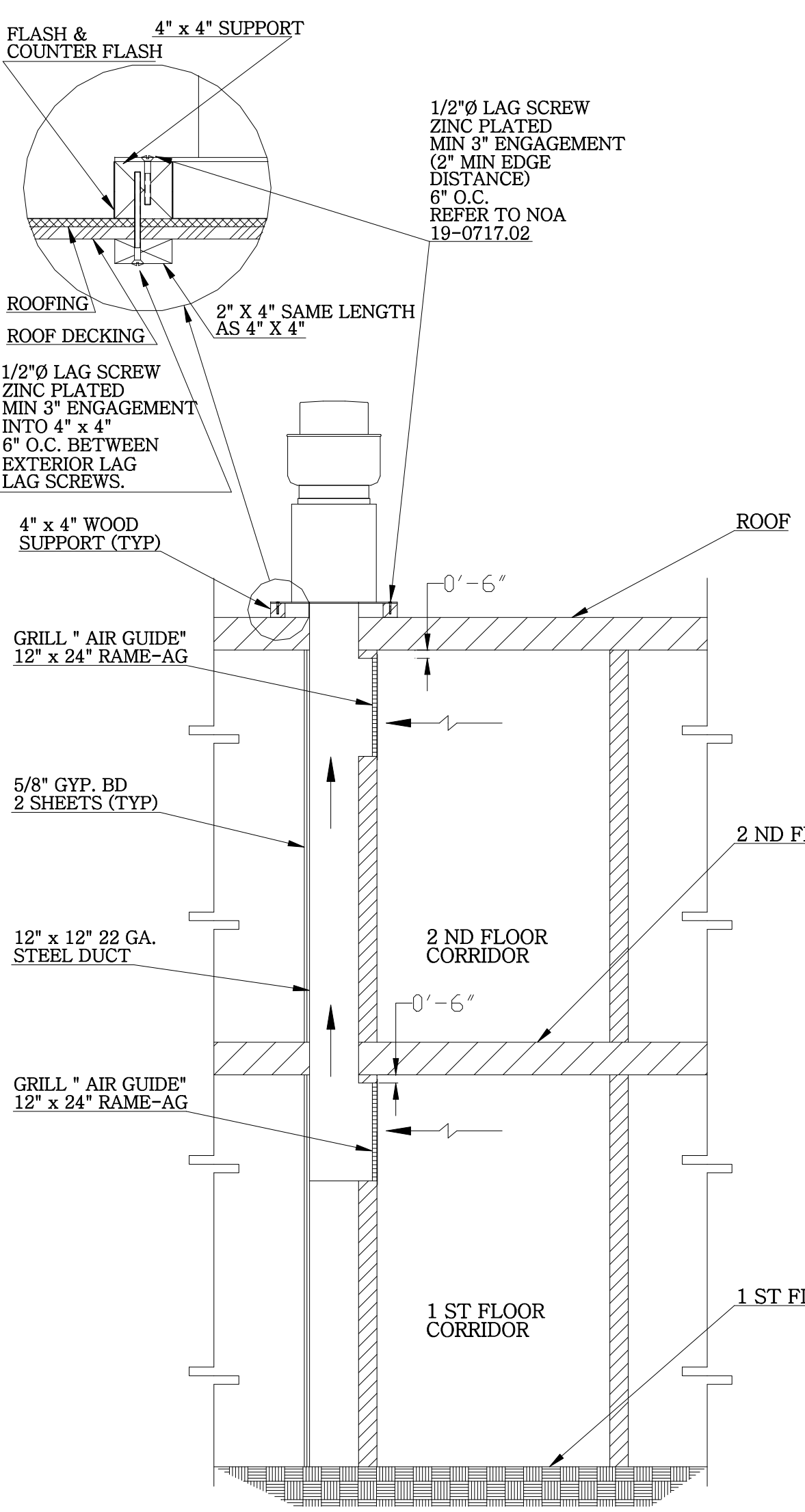
Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square  
 UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)  
 Switch, NEMA-3R, Toggle, Shipped with Unit  
 High Wind Rated (+/- 150 PSF Rating)  
 Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02  
 Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc  
 Heat Baffle (Attached)  
 Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)  
 Steel Wheel Material

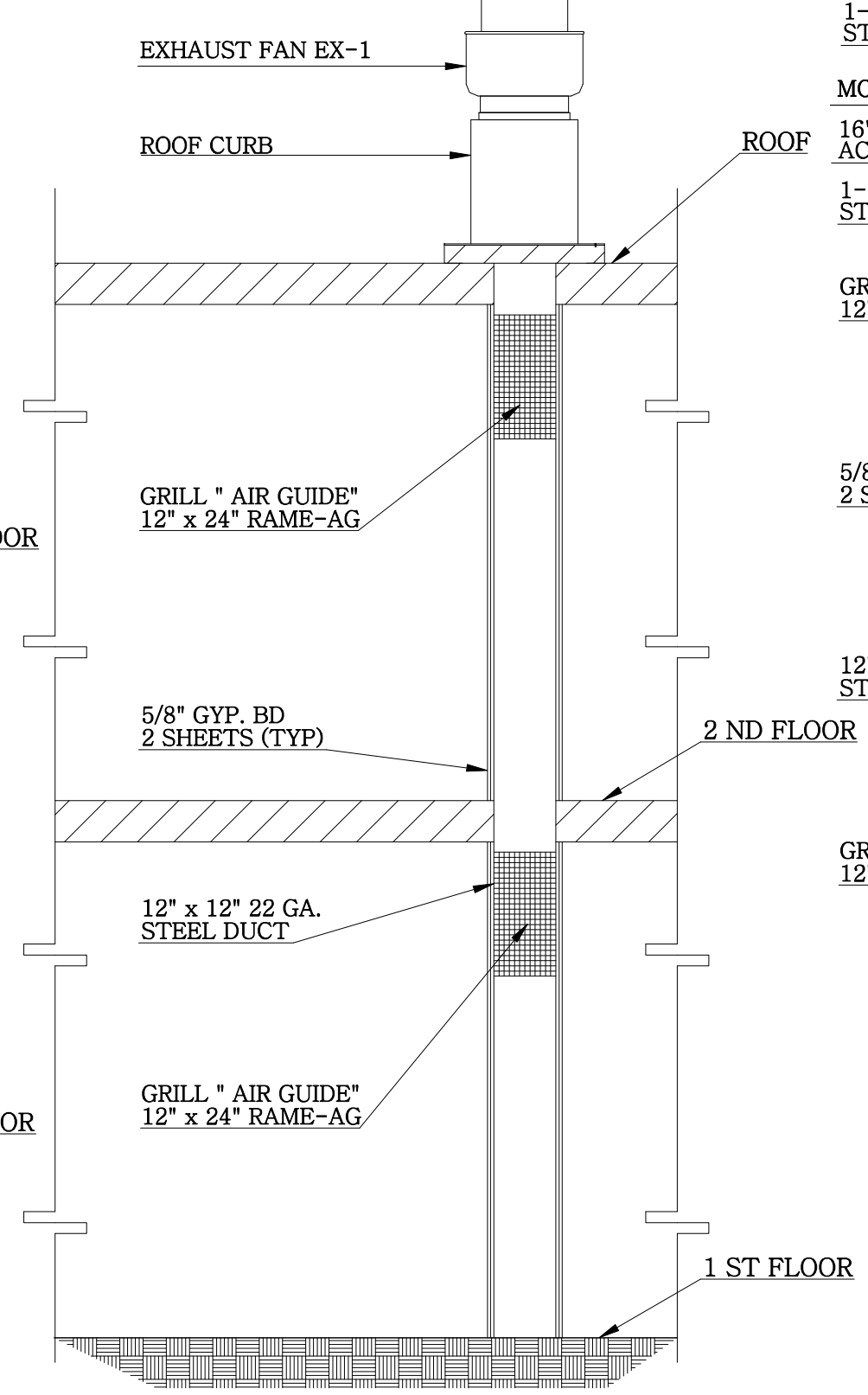
| MOTORIZED DAMPER |             |
|------------------|-------------|
| QUANTITY         | 1           |
| MFG              | DATON MFG   |
| MODEL #          | 5NKK3       |
| OPENING REQUIRED | 20" x 20"   |
| NO OF "F" PANELS | 1           |
| START            | AUTOMATIC * |
| FLANGE WIDTH     | 1/2"        |
| MATERIAL         | ALUMINUM    |
| ELEC. CHAR.      | 120/60/1    |

\* NORMAL STATUS: SPRING CLOSED, POWER OPEN

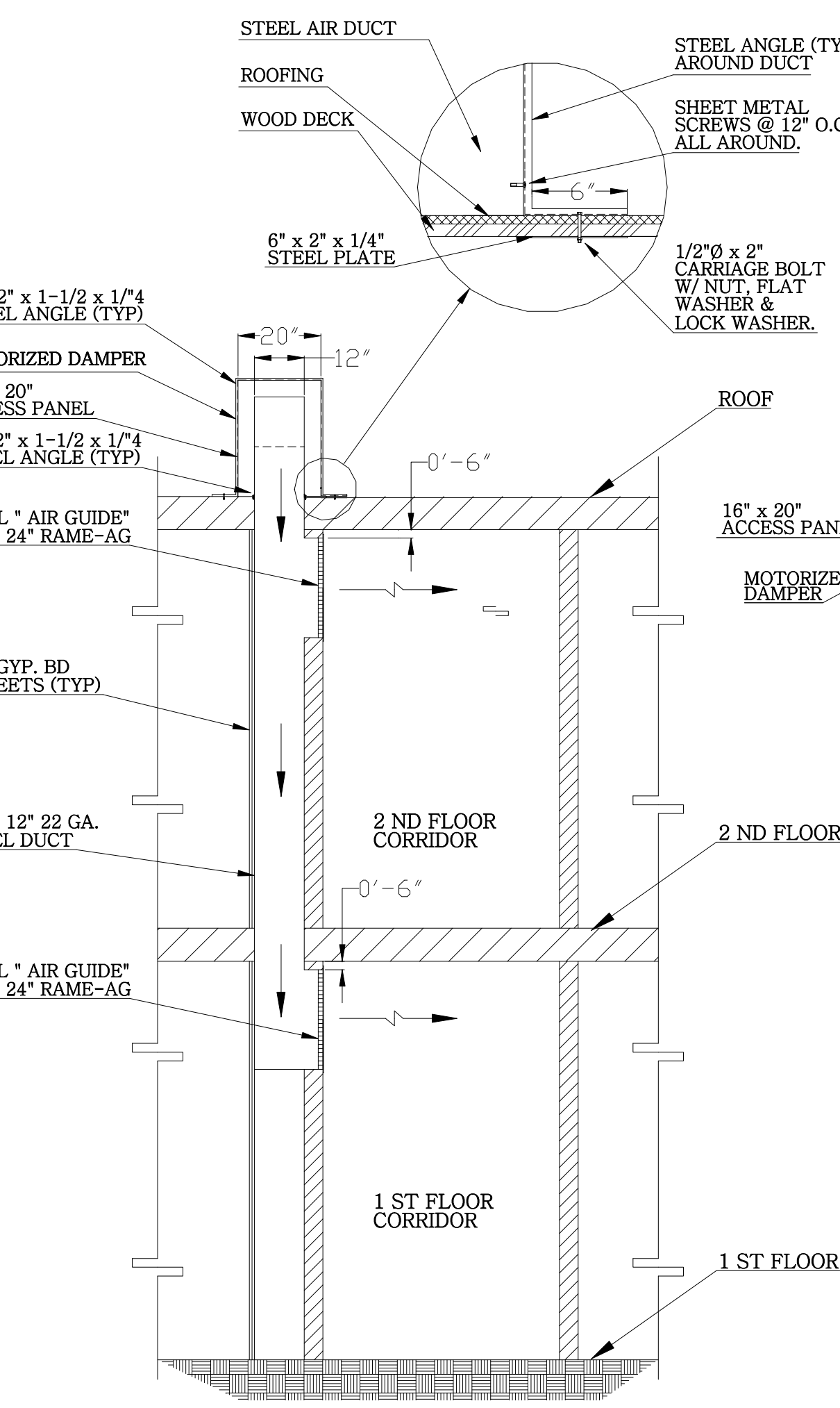
| STANDBY GENERATOR      |                 |
|------------------------|-----------------|
| QUANTITY               | 1               |
| MFG                    | GENERAC         |
| MODEL #                | 6998            |
| RATED WATTS            | 7.5 KW          |
| FUEL TYPE              | NATURAL GAS     |
| FLOW RATE              | 117,000 BTU/HR. |
| AMPERES                | 25 NG           |
| START                  | AUTOMATIC       |
| PHASE                  | SINGLE          |
| TRANSFER SW            | YES             |
| CIRCUITS               | 8               |
| ELEC. CHAR.            | 240/60/1        |
| ENCLOSURE              | STEEL/NEMA 3R   |
| MOUNTING PAD           | ATTACHED        |
| BATTERY REQUIRED       | YES             |
| BATTERY INCLUDED       | NO              |
| DIMENSIONS (L x W x H) | 36 x 27 x 36    |
| WEIGHT                 | 280 LBS         |



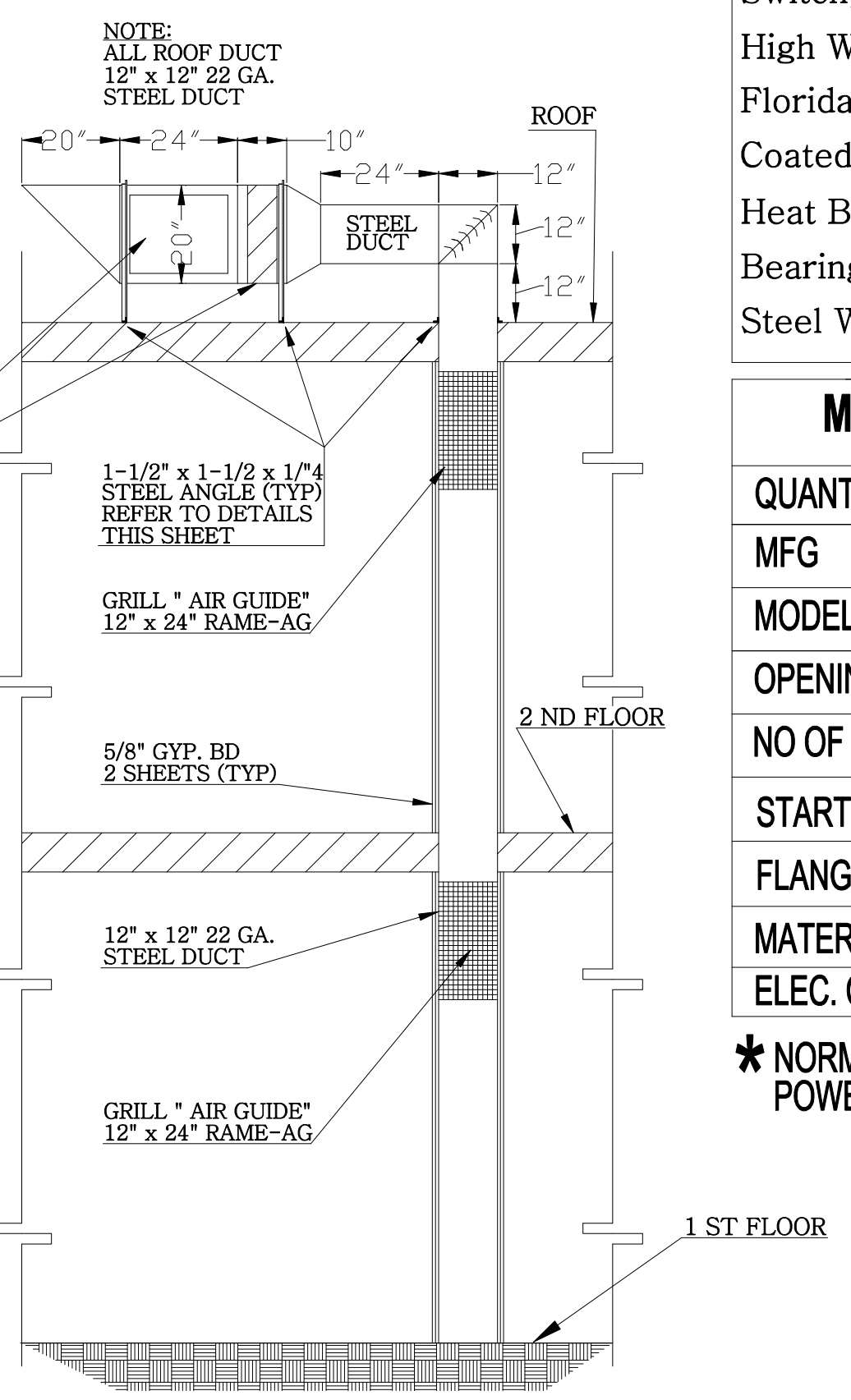
NORTH-SOUTH SECTION THRU EXHAUST DUCT  
SECTION A - A  
N.T.S.



EAST-WEST SECTION THRU EXHAUST DUCT  
SECTION B - B  
N.T.S.

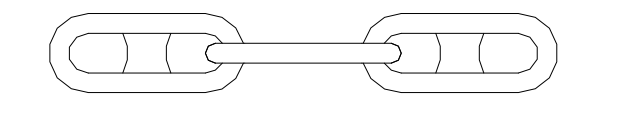


NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT  
SECTION A - A  
N.T.S.



EAST-WEST SECTION THRU MAKE-UP AIR DUCT  
SECTION B - B  
N.T.S.

PROJECT NAME  
SMOKE EXHAUST FAN SYSTEM



SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139



CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-096511  
STATE OF ILLINOIS LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

Digitally signed by Charles E. Culpepper  
Date: 2021.07.06 23:38:45 -04'00'

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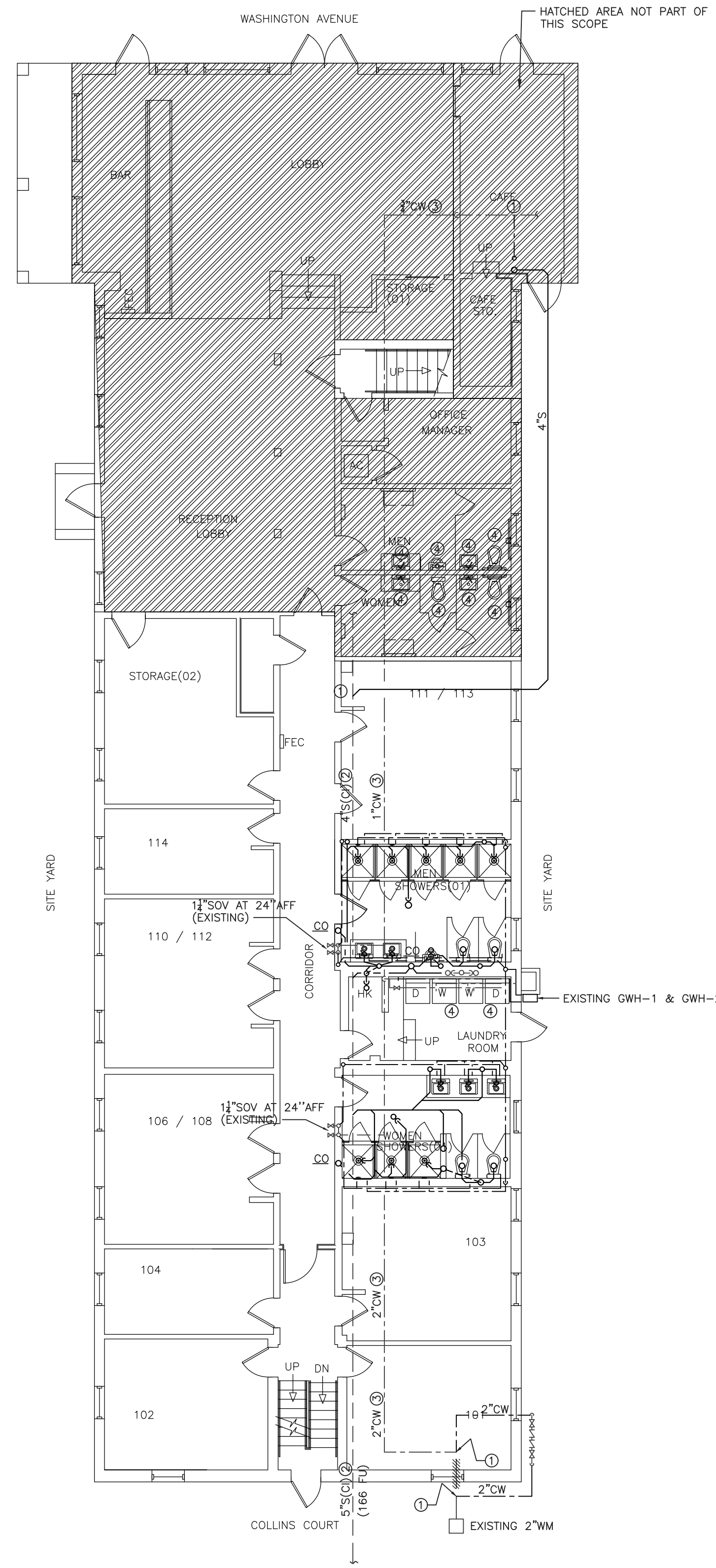
| Revisions |      |             |
|-----------|------|-------------|
| No.       | Date | Description |
|           |      |             |

**CULPEPPER**

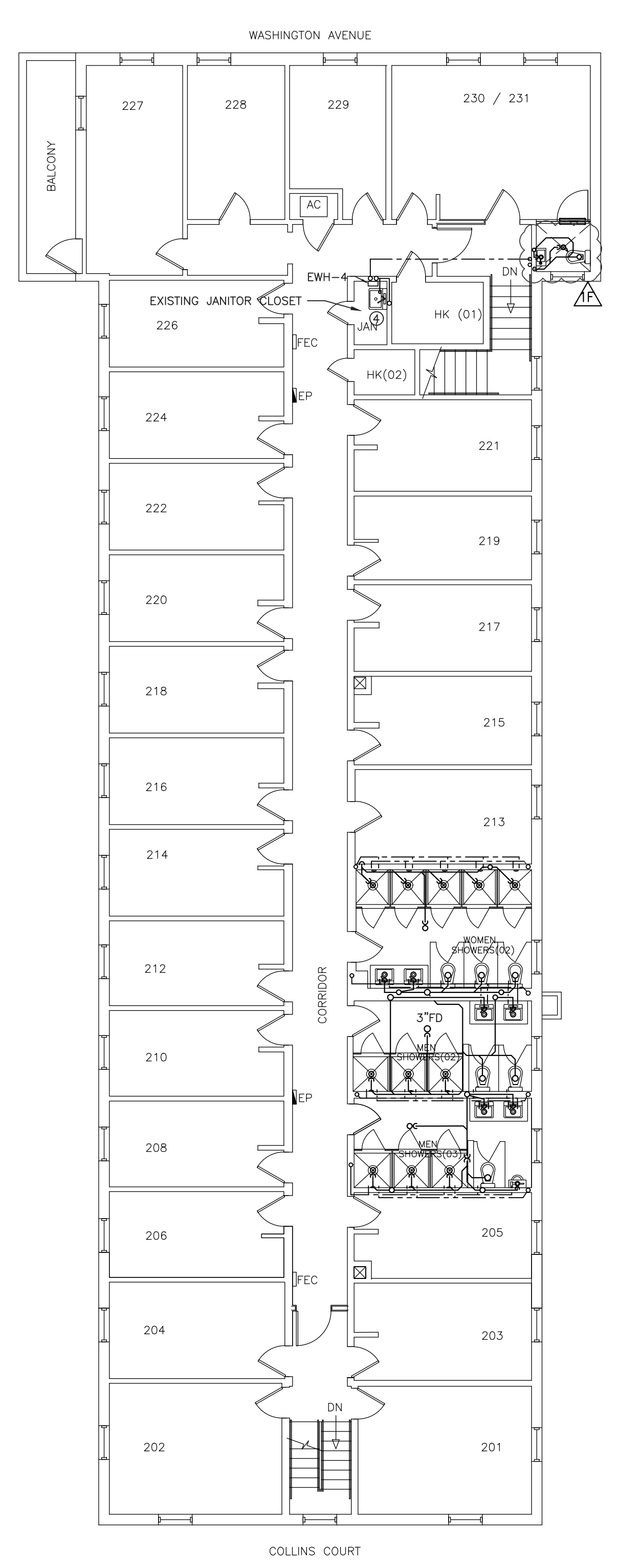
Project Number: 20-169    Drawn By: CEC  
 Designed By: CEC    Checked By: CEC

Sheet Title: DETAILS

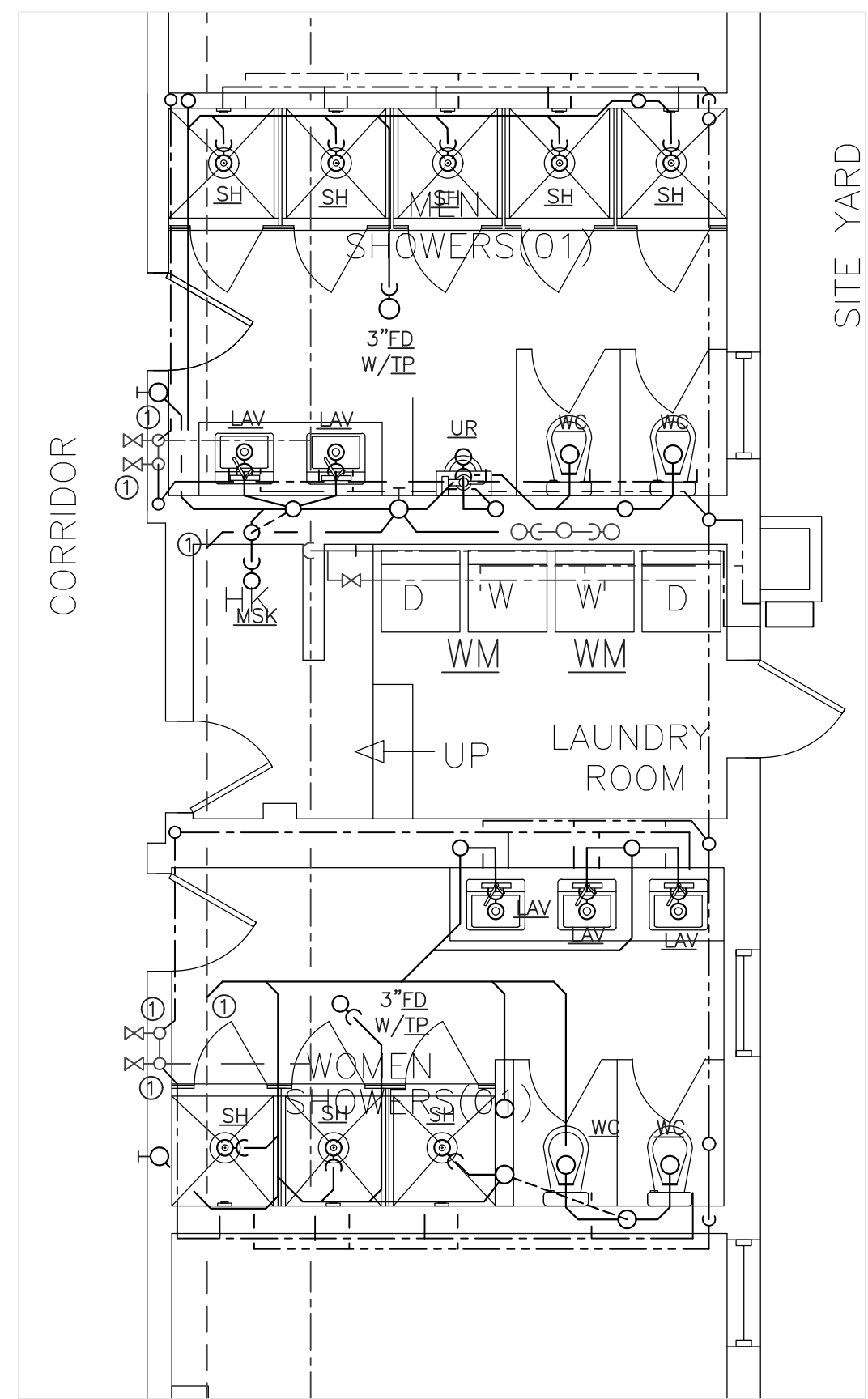
Sheet Number: M-2    2 OF 2



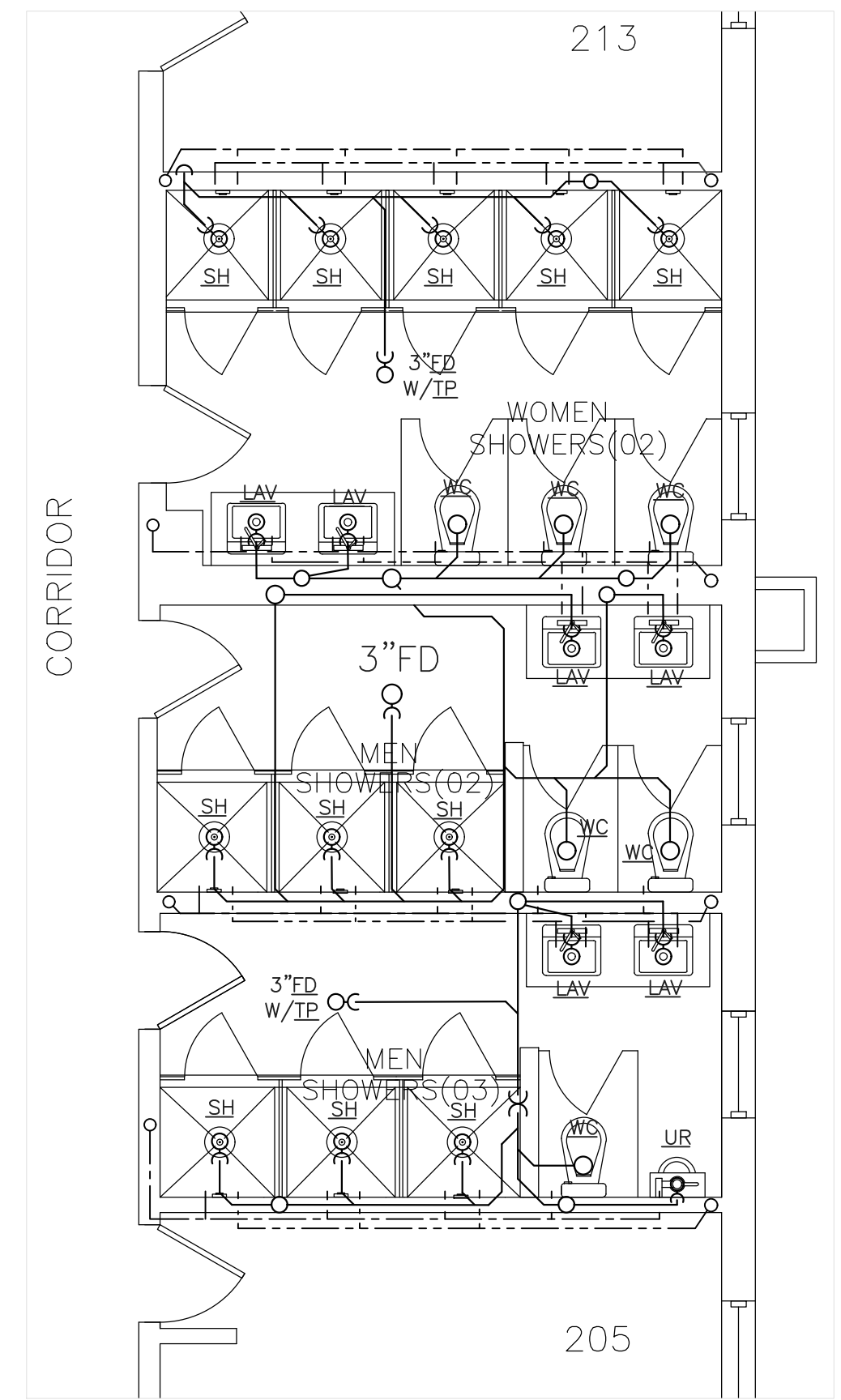
1 LEVEL ONE - PLUMBING FLOOR PLAN  
SCALE: 1/8" = 1'-0"



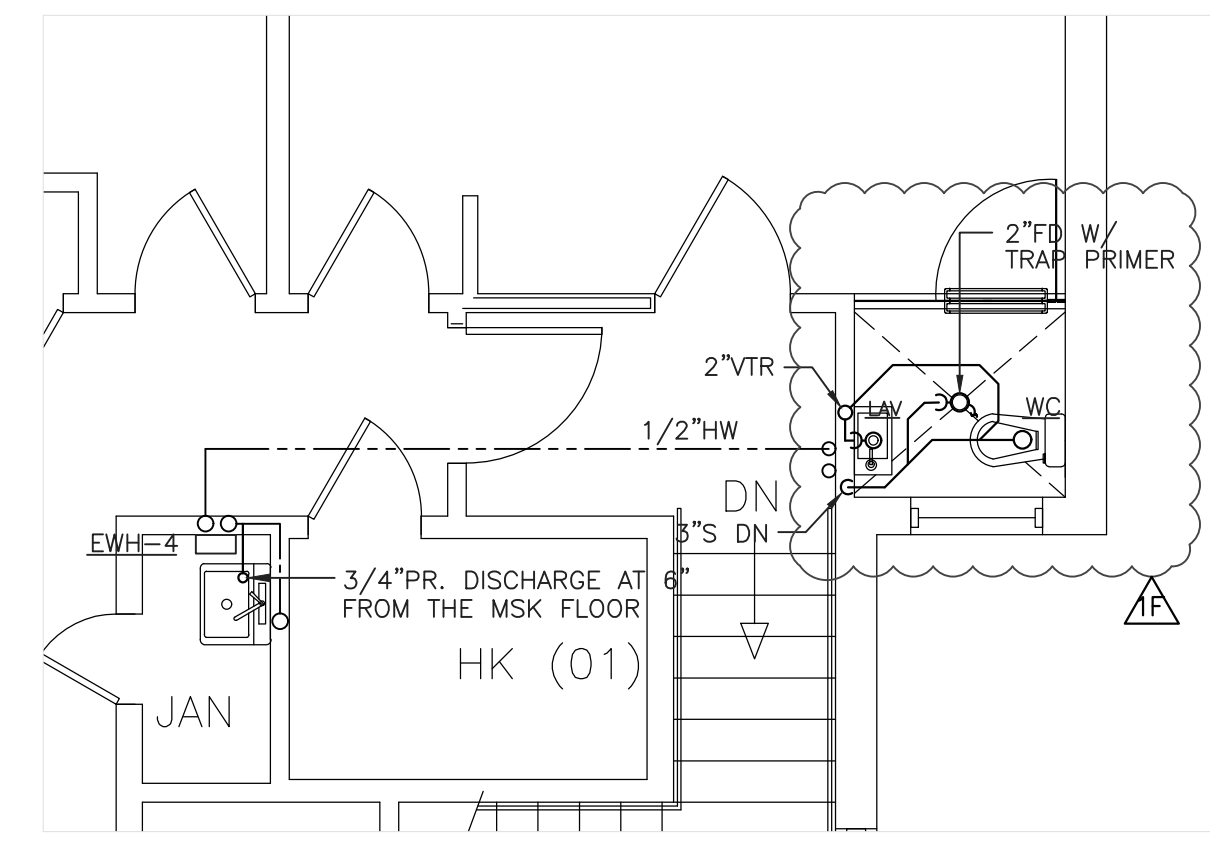
2 LEVEL TWO - PLUMBING FLOOR PLAN  
SCALE: 1/8" = 1'-0"



PARTIAL LEVEL ONE



PARTIAL LEVEL TWO



PARTIAL LEVEL TWO

- CONSTRUCTION NOTES:
- 1 TIE-IN TO EXISTING.
  - 2 EXISTING DRAINAGE/VENT PIPES TO REMAIN.
  - 3 EXISTING WATER PIPES TO REMAIN.
  - 4 EXISTING PLUMBING FIXTURE TO REMAIN.

DO NOT SEND THIS SET OF PLUMBING PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.

NOTE:  
FOR THE NEW EMERGENCY GENERATOR GAS PIPE LAYOUT SEE THE ATTACHED SPECIALTY ENGINEER SYSTEM DRAWINGS.

| Rev. | Date              | Rev.     | Date |
|------|-------------------|----------|------|
| 1    | P.P.C.            | 11/23/20 |      |
| 2    | B.D.C.            | 02/04/21 |      |
| 3    | NOT USED          |          |      |
| 4    | ZONING COMMENT    | 04/01/21 |      |
| 5    | B.D.C. (BUILDING) | 04/19/21 |      |
| 6    | NOT USED          |          |      |
| 7    | B.D.C. (PLUMBING) | 06/16/21 |      |

SOBE HOSTEL  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

Owner:  
Name: ADAM HYATT  
Address: 235 WASHINGTON AVENUE  
Address: MIAMI BEACH, FL, 33139  
Tel: 305.4901018  
Email: ADAM@VULTUREFUND.COM

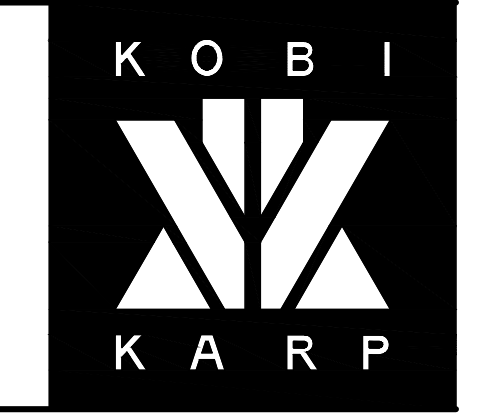
Consultant:  
Name:  
Address:  
Tel:  
Email:

Consultant:  
Name:  
Address:  
Tel:  
Email:

Consultant:  
Name:  
Address:  
Tel:  
Email:

Architect of Record:  
Kobi Karp Architecture and Interior Design, Inc.  
2915 Biscayne Boulevard, Suite #200  
Miami, Florida 33137 USA  
Tel: +1(305) 573 1818  
Fax: +1(305) 573 3766

Ricardo Perez de Alejo  
Digitally signed by Ricardo Perez de Alejo  
Date: 2021.06.16 12:22:52 -04'00'



PROPOSED PLUMBING LEVELS 1 & 2

|         |               |           |      |
|---------|---------------|-----------|------|
| Date    | JUNE 08, 2020 | Sheet No. |      |
| Scale   | AS INDICATED  |           | P101 |
| Project | 1967          |           |      |

**System No. F-C-1059**  
F Rating = 1 and 2 Hr  
T Rating = 0 and 1/2 Hr

**SECTION A-A**

- Floor-Ceiling Assembly** -- The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:
  - Flooring System** -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 7-5/8 in.
  - Wood Joists** -- Nom 10 in deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
  - Gypsum Board** -- Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Diam of opening shall be 1 in. larger than the outside diam of pipe (Item 2).
  - Furring Channels** -- (Not Shown, Optional) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
- Chase Wall** -- (Not Shown, Optional) -- The through penetrants (Item 2) may be routed through a 1 or 2 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual L300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** -- Nom 2 by 8 in. lumber or double nom 2 by 6 in. lumber studs.
  - Side Plate** -- Nom 2 by 8 in. lumber or parallel 2 by 6 in. lumber plates, tightly butted.
  - Top Plate** -- The double top plate shall consist of two nom 2 by 8 in. lumber plates or two sets of nom 2 by 6 in. lumber plates tightly butted. Max diam of opening is 7-5/8 in.
  - Gypsum Board** -- Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Designs.
- Through Penetrants** -- One metallic tubing, pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
  - Steel Pipe** -- Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Iron Pipe** -- Nom 6 in. diam (or smaller) cast or ductile pipe.
  - Conduit** -- Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
  - Steel Flexible Metal Conduit** -- Nom 2 in. diam (or smaller) steel flexible metal conduit. See Flexible Metal Conduit (DMXZ) category in the Electrical Construction Materials Directory for names of manufacturers.
- Fill, Void or Cavity Material** -- Sealant -- Min 5/8 in. or 1-1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor. HILTI INC -- FS-ONE Sealant  
\*Bearing the UL Listing Mark  
\*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS  
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. August 11, 2003  
CLASSIFIED  
Page: 1 of 1

**System No. F-C-2232**  
F Rating = 1 Hr  
T Rating = 3/4 and 1 Hr (See Item 3)

**SECTION A-A**

- Floor-Ceiling Assembly** -- The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
  - Flooring System** -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in.
  - Wood Joists** -- Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
  - Gypsum Board** -- Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in.
- Through Penetrants** -- One nonmetallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 0 in. (point contact) and max 1/2 in. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
  - Polyvinyl Chloride (PVC) Pipe** -- Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe** -- Nom 4 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
- Firestop System** -- The firestop system shall consist of the following:
  - Fill, Void or Cavity Material** -- Wrap Strip -- Nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip. Layers of wrap strip continuously wrapped around the pipe and held in place with tape. Wrap strip butted tightly against surface of ceiling.

| Nom Diam of Pipe, in. | Number of Wrap Strips | Min Max Annular Space, in. | T-Rating - Hr. |
|-----------------------|-----------------------|----------------------------|----------------|
| 2                     | 1                     | 0-1/4                      | 1              |
| 3                     | 2                     | 0-1/2                      | 3/4            |
| 4                     | 2                     | 0-1/2                      | 3/4            |

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W45/1-3/4" Wrap Strip  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant  
CLASSIFIED  
Page: 1 of 1

**NobleSeal TS Shower Receptor Waterproofing**  
(NOT TO SCALE)

**Shower Pan Cross Section**

**NOTES:**

- WHEN NOBLESEAL TS IS FLASHED BEHIND THE BACKER BOARD, MECHANICAL FASTENERS CAN ONLY BE USED IN THE TOP 1" OF THE FLASHED MEMBRANE.
- NOBLESEAL TS SHOULD BE FLASHED OVER THE DAM AND FASTENED ON THE OUTSIDE OF THE DAM. THERE SHOULD BE NO PENETRATIONS ON THE INSIDE OR TOP OF THE DAM.
- PREFORMED DAM CORNERS ARE RECOMMENDED.
- NOBLE CURB COULD BE USED.

**THIN-BED**

**KEYED NOTES:**

- 1/4" x 1/2" 6.4mm tile
- 3/4" x 1/2" 33.8-38.1mm mortar
- 1/8" 3.2mm Latex mod. Thinset
- 1/32" 0.8mm NobleSeal TS
- 1/64" 0.4mm NobleSealant 150
- 1/25" 1.0mm NobleSealant 150
- 1/16" 1.6mm Latex mod. Thinset
- 7/16" 11.1mm Sloped mortar bed

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant  
CLASSIFIED  
Page: 1 of 1

**PLUMBING NOTES**

- GENERAL
- PROVIDE (FURNISH AND INSTALL) ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETELY OPERATIONAL PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PLUMBING SIX EDITION, 2017, AND LOCAL ORDINANCES.
- SCOPE OF WORK: PROVIDE THE FOLLOWING COMPLETE SYSTEMS:
  - SANITARY COLLECTION
  - DOMESTIC HOT AND COLD WATER
  - AIR CONDITIONING CONDENSATE
- PAY FOR ALL FEES, INSPECTIONS AND CONNECTION CHARGES REQUIRED.
- CONTRACTOR SHALL VERIFY AT JOB SITE ALL EXISTING CONDITIONS, DIMENSIONS PIPE SIZES, FIXTURES, ETC. PRIOR TO SUBMITTING A PRICE QUOTE AND INSTALLATIONS. COORDINATE REQUIREMENTS TO AVOID INTERFERENCE WITH OTHER TRADES.
- SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER & OWNER APPROVAL BEFORE PROCEEDING WITH THE PURCHASE OF INSTALLATION OF EQUIPMENT AND MATERIALS.
- GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
- PLUMBING APPLIANCES AND PLUMBING FIXTURES SHALL BE LOCATED AT OR ABOVE THE ELEVATION REQUIRED IN SECTION FBCP-2014, SECTION 309 AND THE FLORIDA BUILDING CODE 2017.
- MATERIALS:
  - WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED AS PER FBCP 2017 SECTION 604.9, UNLESS OTHERWISE APPROVED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK-CLOSING VALVE. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010. ACCESS SHALL BE PROVIDED TO WATER-HAMMER ARRESTORS.
  - PROVIDE DIELECTRIC FITTINGS TO CONNECT PIPING TO EQUIPMENT OF DISSIMILAR METALS. USE CLAMPS AND FASTENERS OF SIMILAR METALS AND ISOLATE THEM FROM PIPING AND SLABS TO PREVENT CORROSION.
  - ANTI SCALD VALVE SHALL BE INSTALLED IN TUBS AND SHOWERS.
  - PIPING:
    - DOMESTIC HOT AND COLD WATER: COPPER TUBING TYPE M UNDERGROUND AND ABOVE GROUND WITH SOLDER JOINTS. WOG BRONZE VALVES 125 P.S.I. MIN. PROVIDE PRE-MOLDED 3/4" FIBERGLASS INSULATION FOR HOT WATER LINES. PROVIDE POLYPROPYLENE SLEEVES TO SEPARATE COPPER PIPE FROM CONCRETE.
    - SANITARY WASTE AND VENT: P.V.C. DRAIN PIPE AND FITTINGS WHEN & WHERE ALLOWED BY THE LOCAL JURISDICTION.
  - PLUMBING FIXTURES SHALL COMPLY WITH REFERENCED STANDARDS AS PER FBCP-2017, SECTIONS 406 THROUGH 421.
  - CLEANOUTS SHALL BE INSTALLED AT EACH FITTING WITH A CHANGE OF DIRECTION MORE THAN 45 DEGREES IN THE BUILDING SEWER, BUILDING DRAIN AND HORIZONTAL WASTE OR SOIL LINES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPE, ONLY ONE CLEANOUT SHALL BE REQUIRED IN EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.
  - HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES NO LESS THAN ONE FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR 2-1/2" DIAMETER AND LESS, AND NOT LESS THAN ONE EIGHT UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR DIAMETER OF 3" OR MORE.

**PLUMBING DEMOLITION NOTES:**

- THE NATURE OF THIS REMODELING TYPE PROJECT POSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE PLUMBING CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING PLUMBING SYSTEMS. THE MAJOR PORTION OF THE PLUMBING SYSTEMS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
- CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT FROM DAMAGE EXISTING PIPES USED FOR FUTURE CONNECTIONS.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING PIPES BEFORE COMMENCING TO WORK AND MAKE MODIFICATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
- EXISTING PIPES SERVING AREAS NOT COVERED BY THIS CONTRACT, BUT IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING, COMPACTING AND RE-POURING EXISTING CONCRETE SLAB ON GRADE FOR THE INSTALLATION OF NEW UNDERGROUND PIPING BELOW EXIST SLABS.

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**Architect of Record:**  
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Fax: +1(305) 573 3766

**System No. W-L-2344**  
F Rating - 2 Hr  
T Rating - 2 Hr

**SECTION A-A**

- Wall Assembly** -- The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual L300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** -- Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
  - Gypsum Board** -- Min 5/8 in. thick, 4 ft wide with square or beveled edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual L300 or U400 Wall and Partition Design. Max diam of opening is 5-1/2 in.
- Through Penetrants** -- One nonmetallic pipe to be centered within the firestop system. A nom annular space of 3/8 to 1/2 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
  - Acrylonitrile Butadiene Styrene (ABS) Pipe** -- Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Polyvinyl Chloride (PVC) Pipe** -- Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe** -- Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
- Firestop System** -- The firestop system shall consist of the following:
  - Fill, Void or Cavity Material** -- Wrap Strip -- Two layers of nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip individually wrapped around the outer circumference of the pipe and set into the annular space such that wrap strip extends 3/4 in. beyond both surfaces of wall. Butted ends in successive layers shall be offset. Wrap strip secured with tape, wire or tie wire.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W45/1-3/4" Wrap Strip  
\*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS  
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2003  
CLASSIFIED  
Page: 1 of 1

**System No. W-L-1097**  
F-rating = 2 Hr.  
T-rating = 1 Hr.

**KEYED NOTES:**

- FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY.
- METALLIC PIPE: A. STEEL PIPE - 8" DIAMETER (OR SMALLER), SCHEDULE 40 (OR HEAVIER) STEEL PIPE.  
B. IRON PIPE - 8" DIAMETER (OR SMALLER), CAST OR DUCTILE IRON PIPE.  
C. COPPER TUBING - 4" DIAMETER (OR SMALLER), TYPE L (OR HEAVIER) COPPER TUBING.  
D. COPPER PIPE - 4" DIAMETER (OR SMALLER), REGULAR (OR HEAVIER) COPPER PIPE.

MAKE THE ANNULAR SPACE A MINIMUM 1/4" TO A MAXIMUM 5/8" WITHIN THE FIRESTOP SYSTEM.

③ Fyre-Shield -- APPLY A MINIMUM 1/2" THICKNESS OF SEALANT WITHIN OPENING. PROVIDE ADDITIONAL SEALANT TO FORM A MINIMUM 1/4" CROWN IN THE ANNULAR SPACE ABOUT THE PIPE OR TUBE PENETRATION.

**DETAIL: TYPICAL FIRESTOPPING OF A TWO HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY PENETRATION BY UNINSULATED STEEL OR COPPER PIPING**

NTS HDPF-USTCOP1HRGYPW  
CLASSIFIED  
Page: 1 of 1

**System No. W-L-5081**  
F-rating = 2 Hr.  
T-rating = 1 Hr.

**KEYED NOTES:**

- FIRE RATED GYPSUM WALL ASSEMBLY = MINIMUM 4-1/2" THICKNESS.
- METALLIC PIPE: A. COPPER TUBING - 2" DIAMETER (OR SMALLER), TYPE K (OR HEAVIER) COPPER TUBING.  
B. COPPER PIPE - 2" DIAMETER (OR SMALLER), REGULAR (OR HEAVIER) COPPER PIPE.
- PIPE COVERING - NOMINAL 3/4" THICK FLEXIBLE FOAM INSULATION. MAKE THE ANNULAR SPACE A MINIMUM 1/8" TO A MAXIMUM 1/4" WITHIN THE FIRESTOP SYSTEM.
- FIRESTOP-IA -- APPLY MINIMUM 1" THICKNESS OF SEALANT WITHIN OPENING. MAKE FLUSH WITH THE TOP SURFACE OF WALL ASSEMBLY. PROVIDE ADDITIONAL FILL MATERIAL TO FORM A MINIMUM 1/4" CROWN IN THE ANNULAR SPACE ABOUT THE PIPE OR TUBE PENETRATION.

**DETAIL: TYPICAL FIRESTOPPING OF A TWO HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY PENETRATION BY INSULATED COPPER**

NTS HDPF-ISTCOP2HRGYPW  
CLASSIFIED  
Page: 1 of 1

**PLUMBING NOTES AND DETAILS**

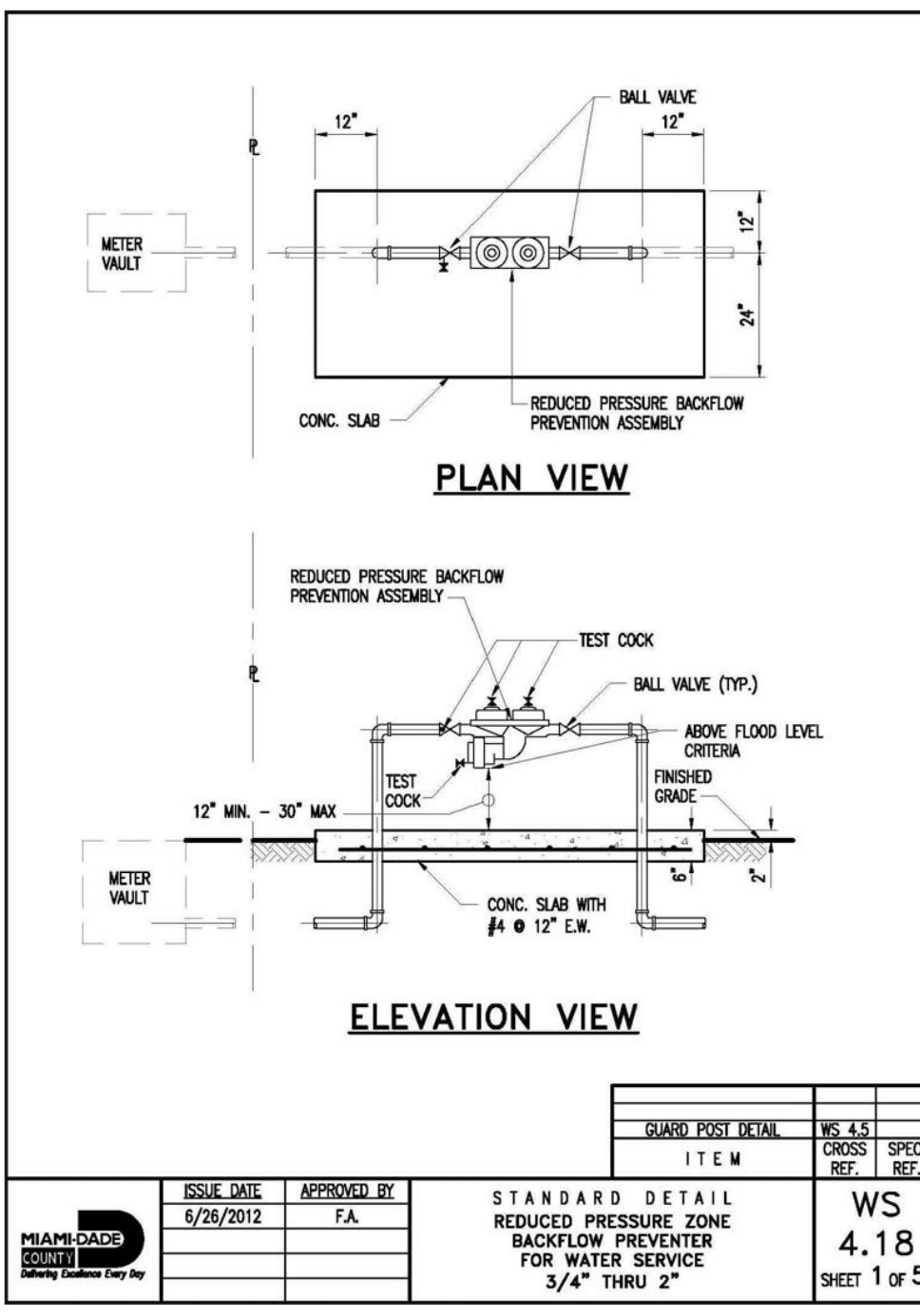
**Ricardo Perez de Alejo** Digitally signed by Ricardo Perez de Alejo  
Date: 2021.06.16 12:23:38 -04'00'

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**KOBİ KARP**  
Lic. # AR0012578

| Date    | JUNE 08, 2020 | Sheet No. |
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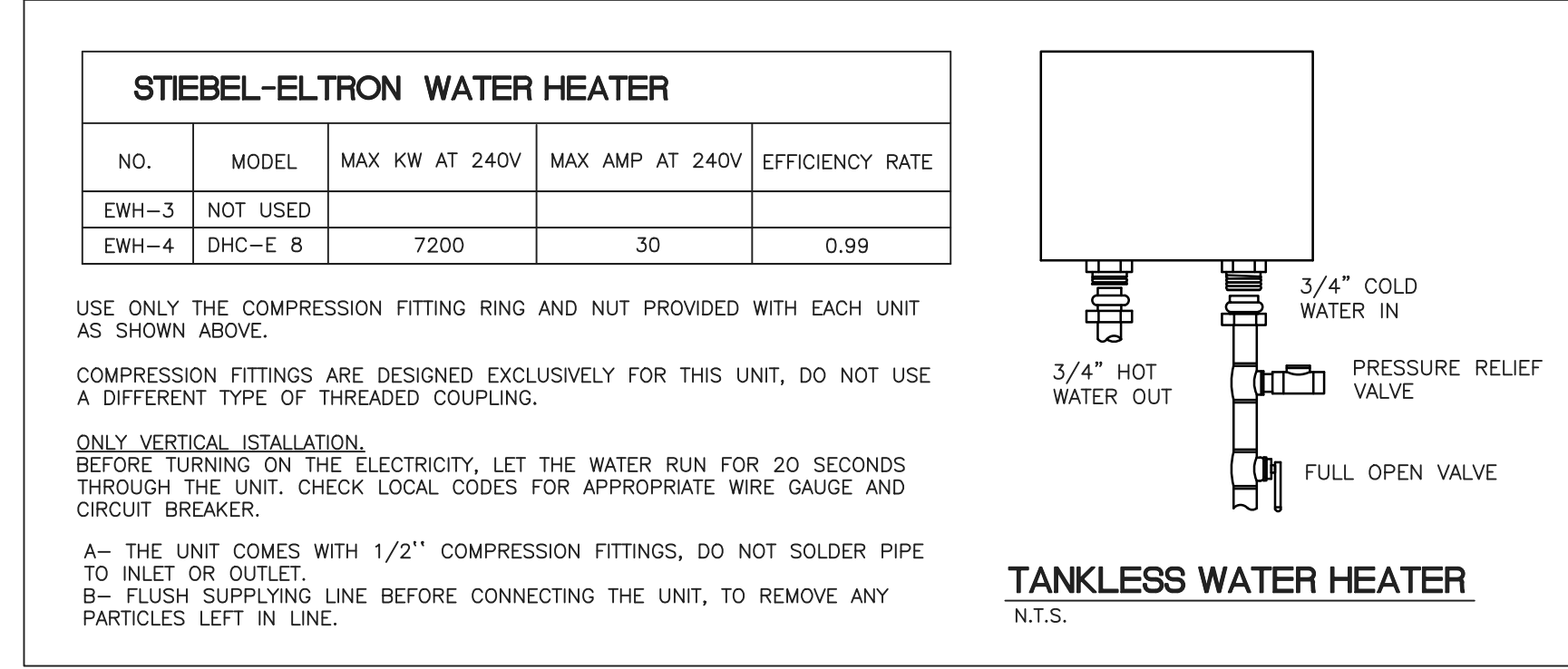
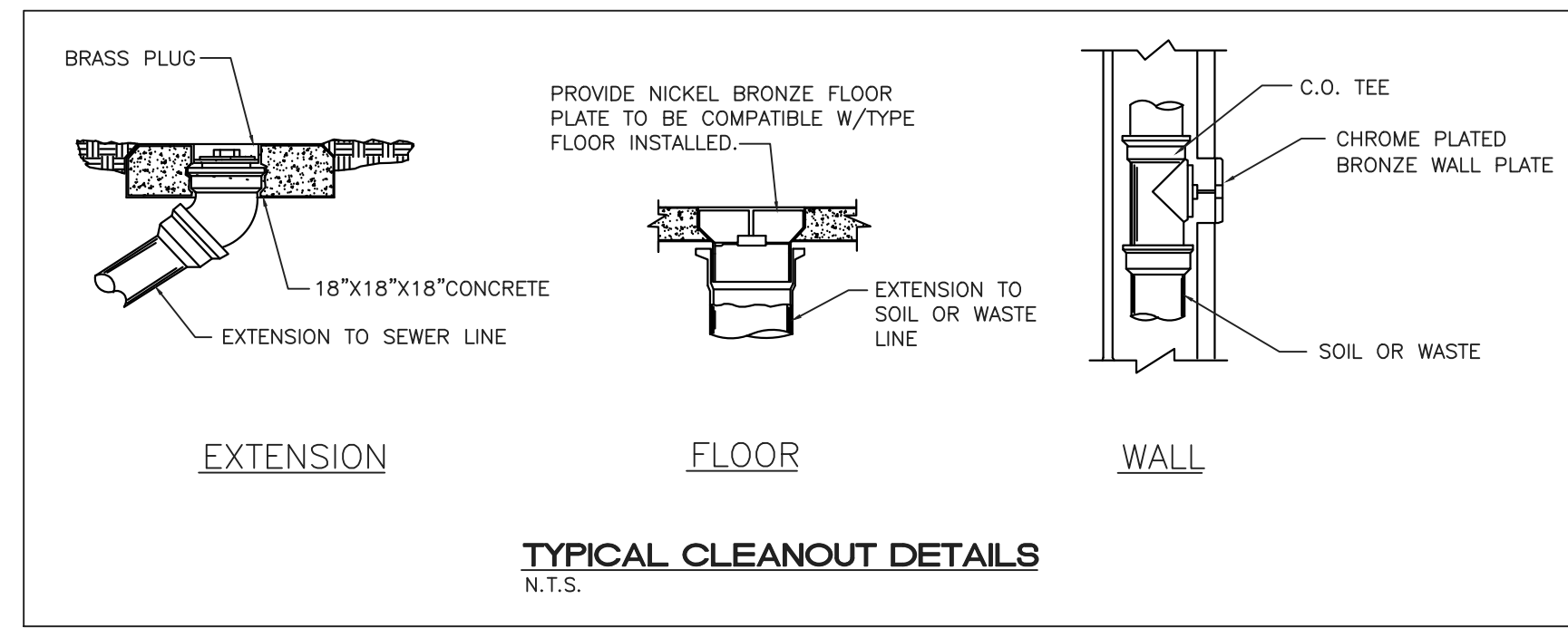
**PLUMBING FIXTURE CONNECTION SCHEDULE**

IN COMPLIANCE TO FBCP CHAPTER 27 AND WATER CONSUMPTION RATES AS PER MIAMI DADE ORDINANCE 08-14.

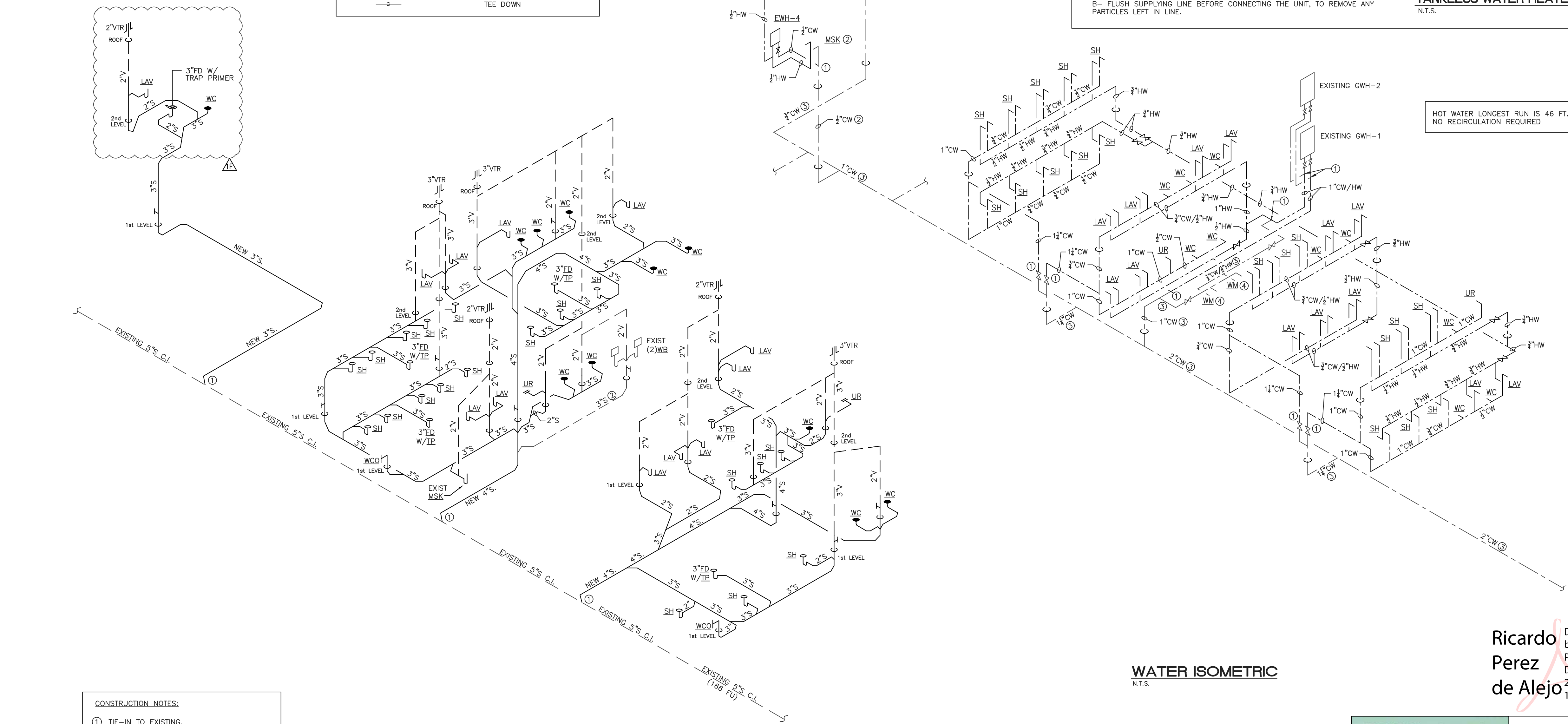
| No. | DESCRIPTION    | DRAIN  | WATER |      | SAN. (FU) | MAX. FLOW RATE (GPM)       | FIXTURE COMPLIANCE  |
|-----|----------------|--------|-------|------|-----------|----------------------------|---|
|     |                |        | COLD  | HOT  |           |                            |   |
| WC  | WATER CLOSET   | 3"     | 1/2"  | N/A  | 3         | 1.28 PER FLUSHING          | ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/AFPMO Z124. ASME A112.19.2/CSA B45.1, Water closet tanks shall conform to ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/AFPMO Z124. |
| LAV | LAVATORY       | 1-1/4" | 1/2"  | 1/2" | 1         | 1.0 AT 60 PSI              | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/AFPMO Z124  |
| SK  | SINK           | 1-1/2" | 1/2"  | 1/2" | 2         | 1.0 AT 60 PSI              | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/AFPMO Z124.   |
| SH  | SHOWER         | 2"     | 1/2"  | 1/2" | 2         | 1.5 AT 80 PSI              | ASME A112.19.2/CSA B45.1 or CSA B45.5/AFPMO   |
| WM  | WASHER MACHINE | 2"     | 1/2"  | 1/2" | 2         | WATER FACTOR OF 8 OR LOWER | ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/AFPMO Z124.   |
| UR  | URINAL         | 1-1/2" | 1/2"  | 1/2" | 2         | 1.0 AT 60 PSI              | ANSI Z124.6, ASME A112.19.1M, ASME A112.19.2M, ASME A112.19.3M, ASME A112.19.4M, ASME A112.19.9M, CSA B45.1, CSA B45.2, CSA B45.3 or CSA B45.4.   |

**PLUMBING SYMBOL LEGEND**

|     |      |                          |
|-----|------|--------------------------|
| --- | SAN. | NEW SANITARY LINE        |
| --- | HW   | NEW HOT WATER LINE       |
| --- | CW   | NEW COLD WATER LINE      |
| --- | VT   | NEW VENT LINE            |
| --- | SAN. | EXISTING SANITARY LINE   |
| --- | HW   | EXISTING HOT WATER LINE  |
| --- | CW   | EXISTING COLD WATER LINE |
| --- | VT   | EXISTING VENT LINE       |
| --- | CD   | CONDENSATE LINE          |
| --- | PD   | P&T RELIEF VALVE         |
| --- | CO   | CLEAN OUT                |
| --- | WCO  | WALL CLEAN OUT           |
| --- | FCO  | FLOOR CLEAN OUT          |
| --- | GV   | GATE VALVE               |
| --- | AAV  | AIR ADMITTANCE VALVE     |
| --- | ---  | ELBOW DOWN               |
| --- | ---  | ELBOW UP                 |
| --- | ---  | TEE DOWN                 |



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| 1    | P.P.C.            | 11/23/20 |      |
| 2    | B.D.C.            | 02/04/21 |      |
| 3    | NOT USED          |          |      |
| 4    | NOT USED          |          |      |
| 5    | B.D.C. (BUILDING) | 04/19/21 |      |
| 6    | NOT USED          |          |      |
| 7    | B.D.C. (PLUMBING) | 06/16/21 |      |



- CONSTRUCTION NOTES:**
- TIE-IN TO EXISTING.
  - EXISTING DRAINAGE/VENT PIPES TO REMAIN.
  - EXISTING WATER PIPES TO REMAIN.
  - EXISTING PLUMBING FIXTURE TO REMAIN.

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No. 58728  
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PROFESSIONAL ENGINEER

RICARDO PEREZ, P.E. 58728

Ricardo Perez de Alejo  
Digitally signed by Ricardo Perez de Alejo  
Date: 2021.06.16 12:24:03 -04'00'

**SOBE HOSTEL**  
235 WASHINGTON AVE  
MIAMI BEACH, FL 33139

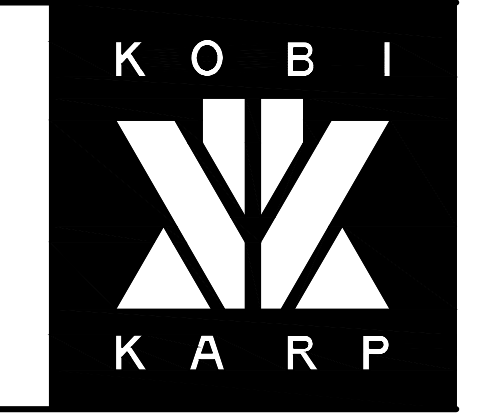
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**Consultant:**  
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Address:  
Tel:  
Email:

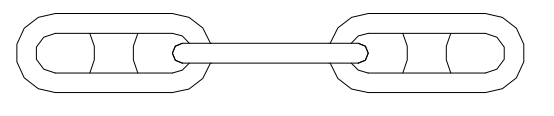
**Consultant:**  
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**Architect of Record:**  
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Lic. # AR0012578  
**PLUMBING RISERS**

| Date    | JUNE 08, 2020 | Sheet No. |
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| Project | 1967          |           |



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CULPEPPER

Project Number: 20-169 Drawn By: CEC  
Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN ELECTRICAL DETAILS

Sheet Number: E-1 1 OF 1

ELECTRICAL LEGEND.

- SD SMOKE DETECTOR
- DISCONNECT SWITCH
- JB JUNCTION BOX
- M ELECTRIC MOTOR
- ELECTRIC POWER WIRING
- - - - - ELECTRIC CONTROL WIRING

SHOP DRAWING / SUBMITTAL REVIEW

APPROVED       APPROVED WITH CHANGES NOTED  
 REVISE AND RESUBMIT       REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: *RPA*      DATE: 7/15/21  
 RICARDO PEREZ DE ALEJO  
 RPA ENGINEERING, INC.

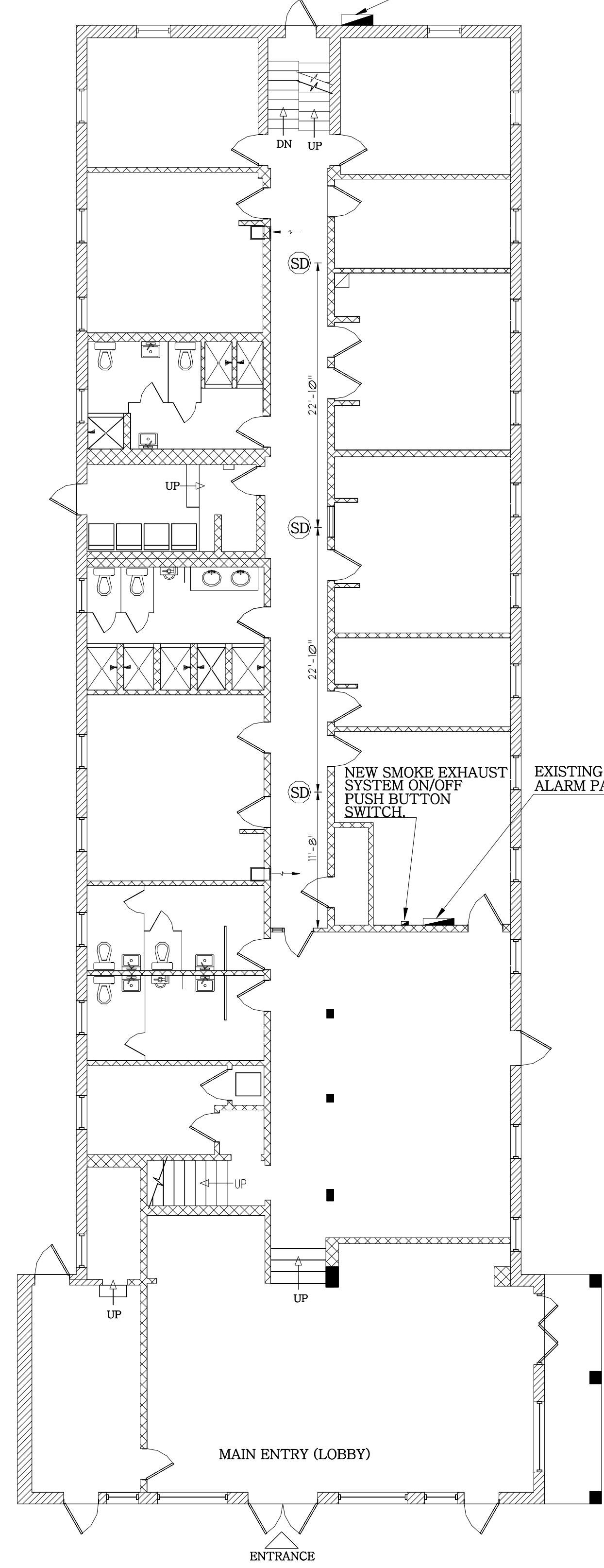
SMOKE EXHAUST SYSTEM SEQUENCE OF OPERATION

- UNDER QUIESCENT CONDITIONS THE EXHAUST FAN AND THE MOTORIZED DAMPER ON/OFF SWITCHES AT THE UNITS ARE IN THE "ON" POSITION. THE EMERGENCY GENERATOR IS IN THE OFF POSITION. BREAKERS ONE AND TWO IN THE GENERATOR LOAD CENTER ARE IN THE CLOSED POSITION. THE PUSH BUTTON STATION NEAR THE FIRE ALARM PANEL IS IN THE OFF POSITION.
- ACTIVATION OF ANY OF THE FOLLOWING WILL CAUSE THE SMOKE EXHAUST SYSTEM TO START:
  - MANUAL ACTIVATION OF THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.
  - AUTOMATIC ACTIVATION BY A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SUPERVISORY DEVICE.
  - ACTIVATION BY A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SMOKE DETECTOR.
 ((ALL SUPERVISORY DEVICES (PULL STATIONS ETC. AND SMOKE DETECTORS) SHALL BE WIRED THRU THE FIRE ALARM PANEL))
- DEACTIVATION OF THE SMOKE EXHAUST SYSTEM WILL BE THROUGH THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.

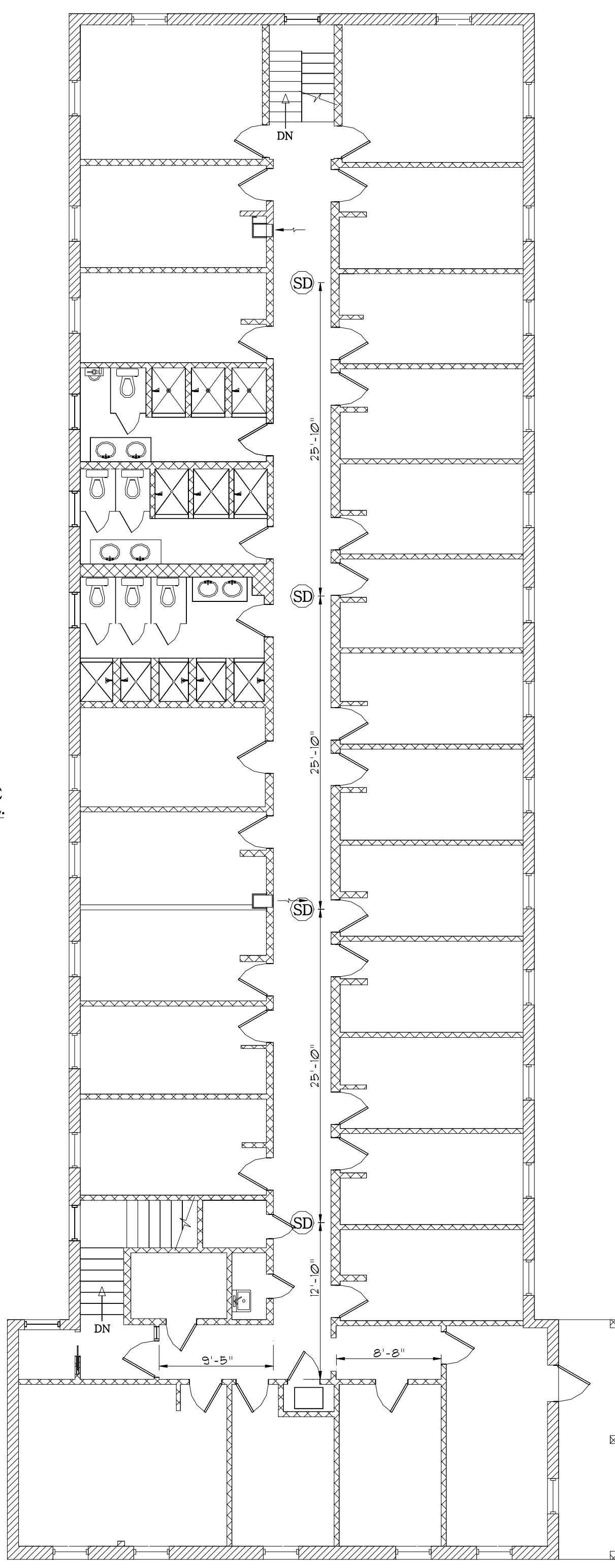
SCOPE OF THE WORK:

- THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING ELECTRICAL SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
  - THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - ALL CIRCUIT BREAKERS.
    - ALL DISCONNECT SWITCHES.
    - ALL ELECTRICAL CONDUIT.
    - ALL WIRING DEVICES.
    - ALL POWER AND CONTROL WIRING.
- A. GENERAL:**
- AS A MINIMUM ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
    - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
    - NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA).
    - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA/NEC).
    - UNDERWRITERS LABORATORIES (UL); NOTE THAT THE ABOVE ENUMERATED CODES AND STANDARDS ARE SUBORDINATE TO UL.
  - ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
- B. MATERIALS:**
- ALL WIRING SHALL HAVE 600 VOLT INSULATION TYPE TW, THW OR THWN FOR BRANCH CIRCUITS AND TYPE THW OR THN FOR MAIN FEEDERS OR AS SPECIFIED. MINIMUM SIZE WIRING SHALL BE #12 AWG.
  - THE ELECTRICAL DESIGN IS BASED ON COPPER CONDUCTORS; WIRE SIZES #10 AND SMALLER SHALL BE TYPE TW; WIRE SIZES #8 AND LARGER SHALL BE TYPE THW OR AS SPECIFIED. WIRE SIZES #10 AND SMALLER SHALL BE SOLID COPPER AND IN SIZES #8 AND LARGER SHALL BE STRANDED COPPER.
  - PROVIDE ALL FUSES FOR ALL EQUIPMENT WHERE FUSES ARE REQUIRED. SIZE ALL FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
  - ALL ELECTRICAL WIRING SHALL BE IN CONDUIT (NO ROMEX, SX, ETC.). ALL CONDUIT SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIDGED GALVANIZED STEEL (RGS) EXCEPT THAT:
    - ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN, OR ON WALLS AND/OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP AND/OR CORROSIVE CONDITIONS.
  - ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
  - WHERE OPENINGS MUST BE FIRE SEALED, USE FIRE SEAL SIMILAR TO "OZ".
- C. METHODS:**
- ALL FEEDERS, SUB FEEDERS AND BRANCH CIRCUITS SHALL BE PROPERLY PHASED BALANCED.
  - WIREWAYS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS OTHERWISE NOTED.
  - ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS, EXACT LOCATIONS AND TYPE OF OUTLET FOR ALL ELECTRICAL EQUIPMENT.
  - ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURES.
  - ALL PULL AND JUNCTION BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT THEY WILL BE ACCESSIBLE AT ALL TIMES.
- D. TESTS:**
- CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR ALL REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION AS THE WORK PROGRESSES
  - CONTRACTOR SHALL PERFORM TESTS ON ALL INSTALLED ELECTRICAL EQUIPMENT TO INSURE THAT ALL COMPONENTS OPERATE AS REQUIRED TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. PERFORM ANY ADDITIONAL TEST AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND IN ACCORDANCE WITH ANY LOCAL CODES AND ORDINANCES.

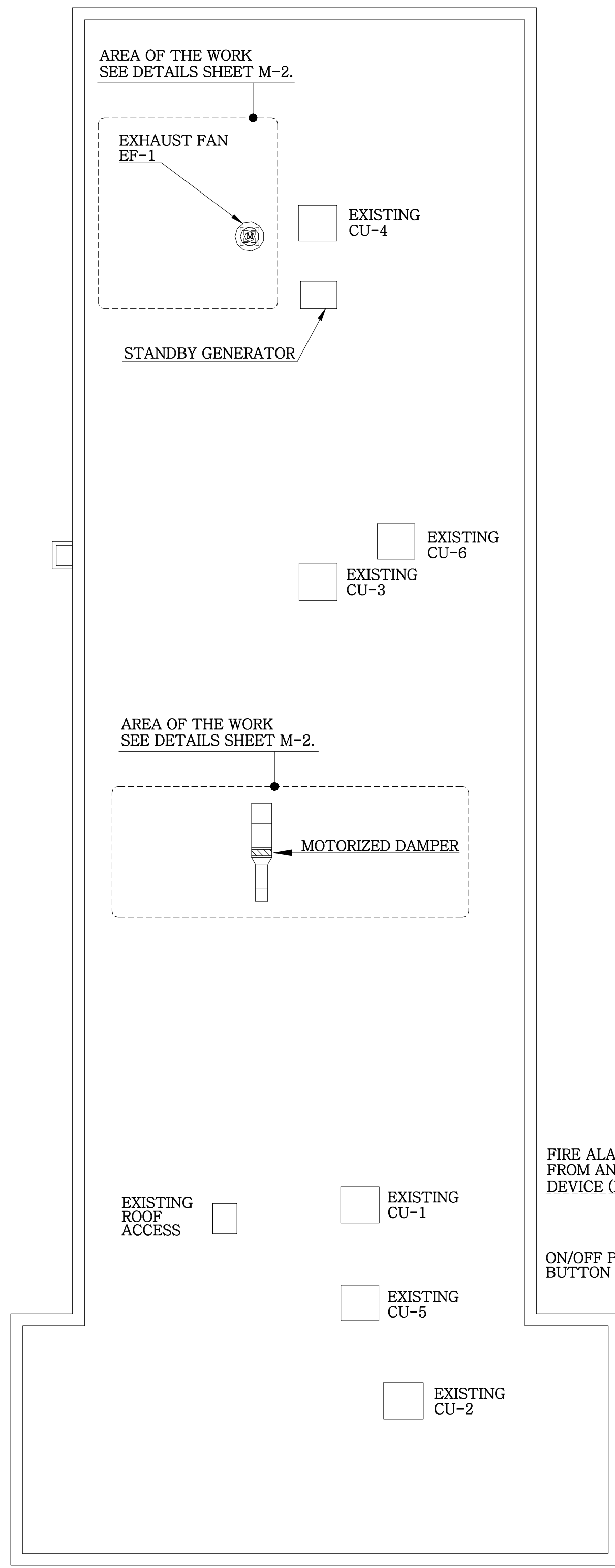
EXISTING PANEL "MDP"  
CAPACITY: 400 A.  
CURRENT LOAD (BEFORE  
NEW CIRCUIT): 294 A.



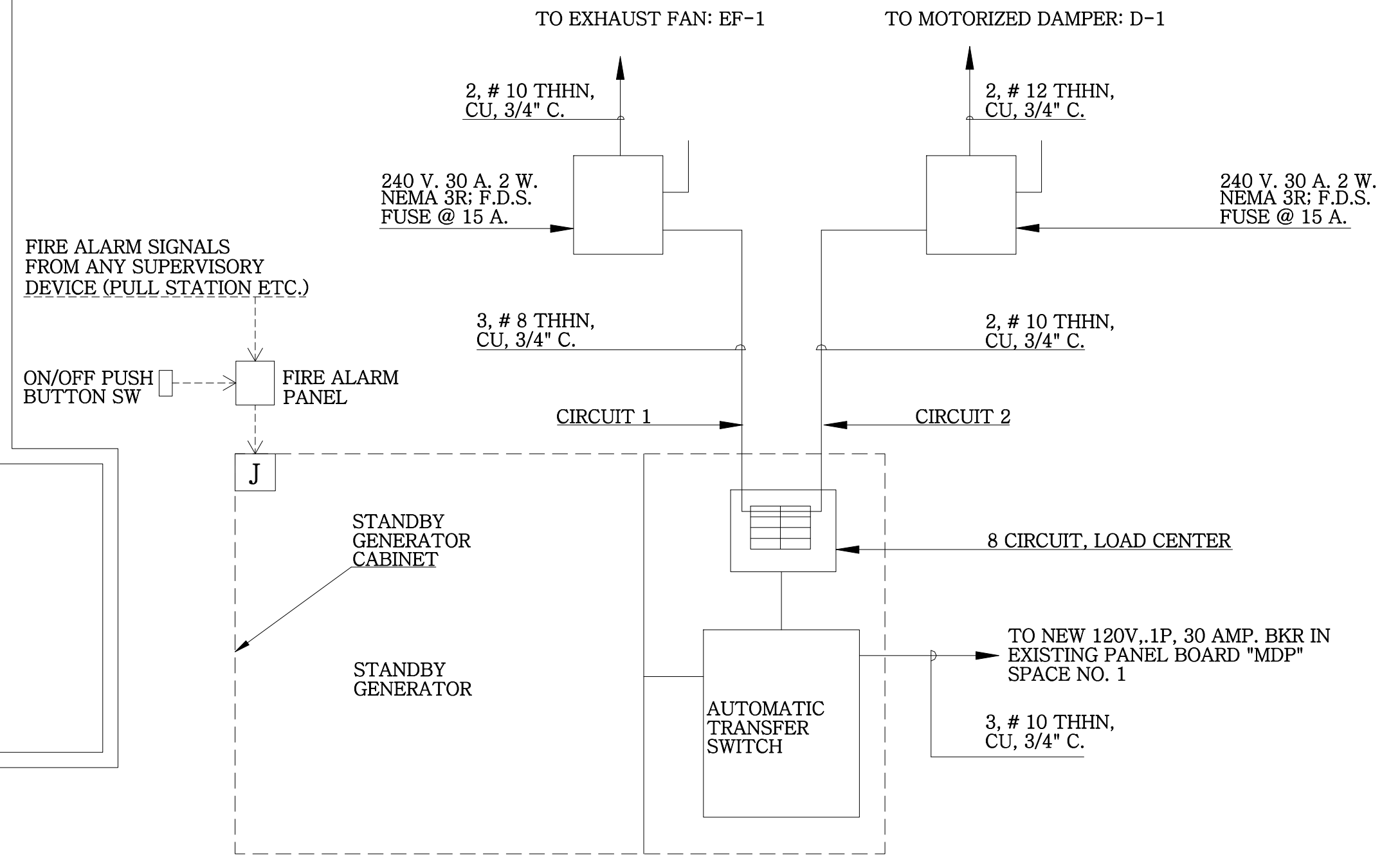
FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"



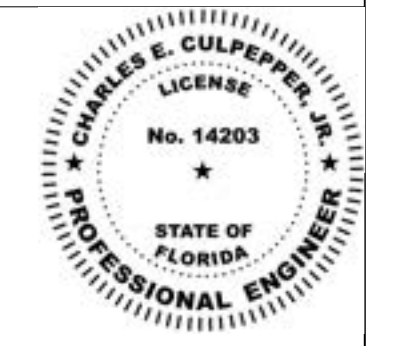
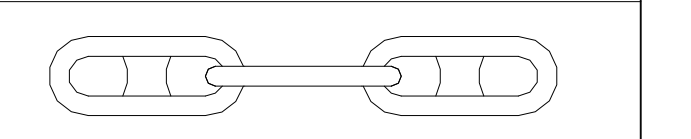
SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"



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



ELECTRICAL RISER  
N.T.S.



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Issue Date: MAY 27, 2021

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**CULPEPPER**

Project Number: 20-169 Drawn By: CEC  
Designed By: CEC Checked By: CEC

Sheet Title: NATURAL GAS LAYOUT

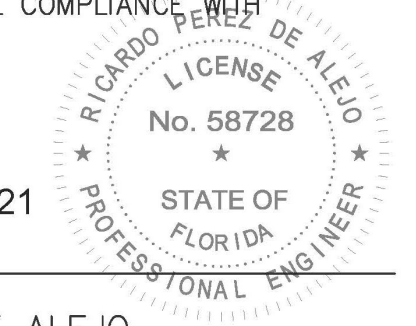
Sheet Number: P-1 1 OF 1

SHOP DRAWING / SUBMITTAL REVIEW

- APPROVED
- APPROVED WITH CHANGES NOTED
- REVISE AND RESUBMIT
- REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

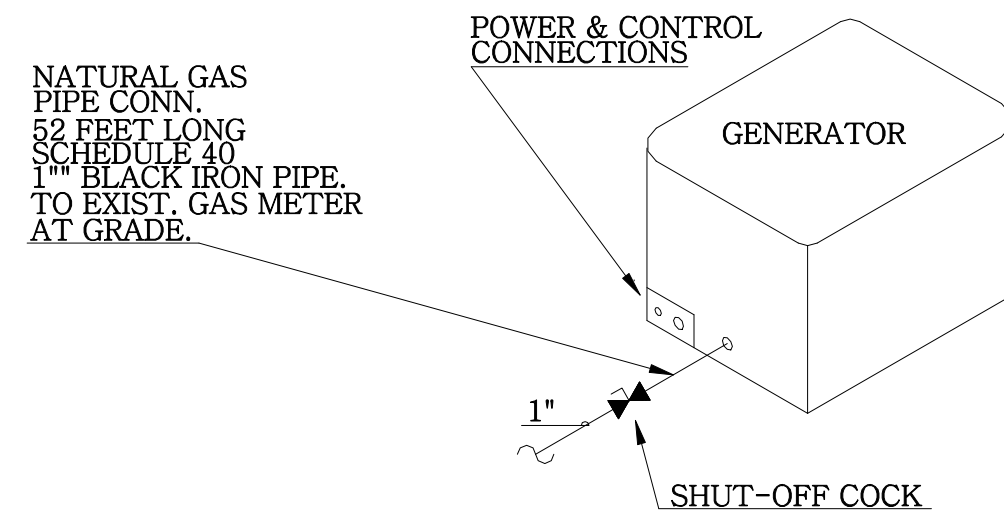
BY: *RPA* DATE: 7/15/21  
RICARDO PEREZ DE ALEJO  
RPA ENGINEERING, INC.



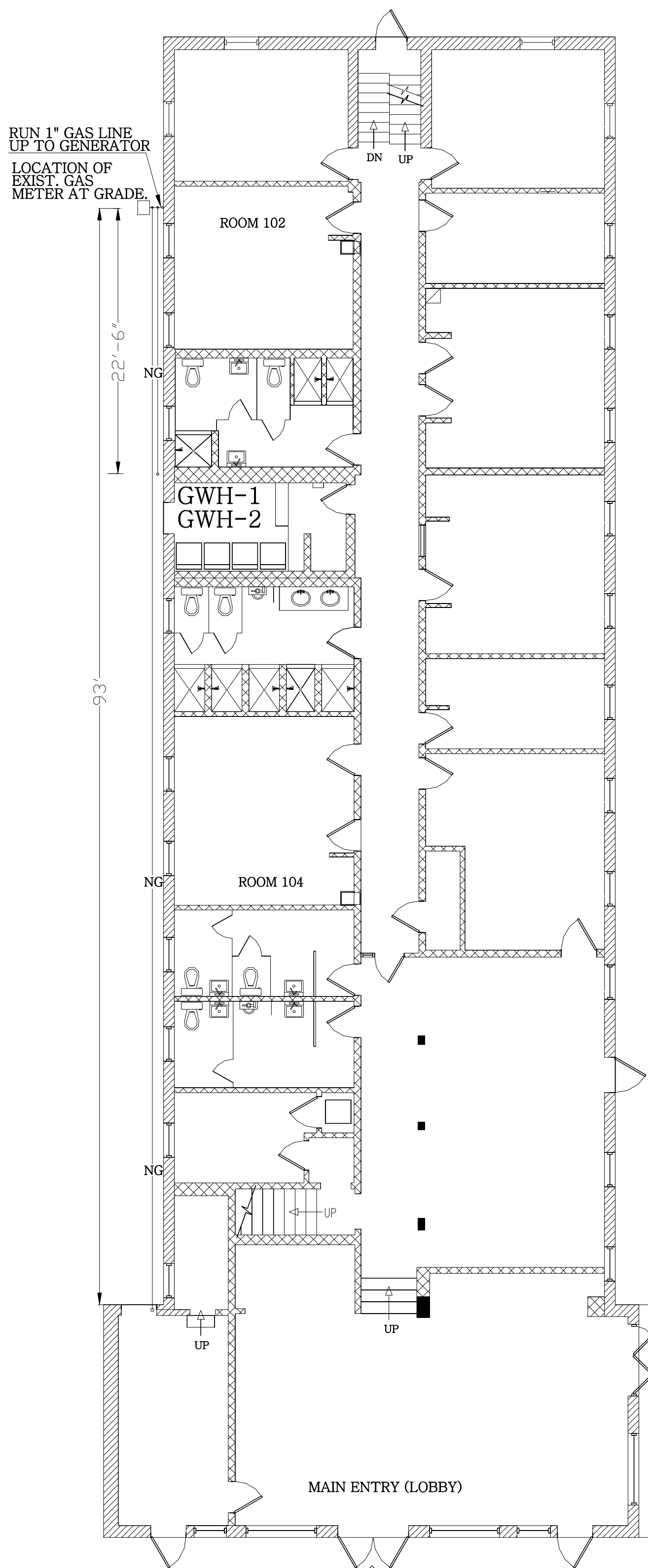
REFER TO SHEET M-1 FOR NOTES.

| EQUIPMENT        | FLOW RATE    | GAS REQUIREMENT | PIPE LENGTH | PIPE SIZE  |
|------------------|--------------|-----------------|-------------|------------|
| GENERATOR        | 117,000 BTUH | 117 CF/HR       | 102 FEET    | 1 INCH     |
| RESTAURANT SPACE | 600,000 BTUH | 600 CF/HR       | 102 FEET    | 2 INCHES   |
| GWH-1            | 199,900 BTUH | 400 CF/HR       | 102 FEET    | 1-1/2 INCH |
| GWH-2            | 199,900 BTUH |                 |             |            |

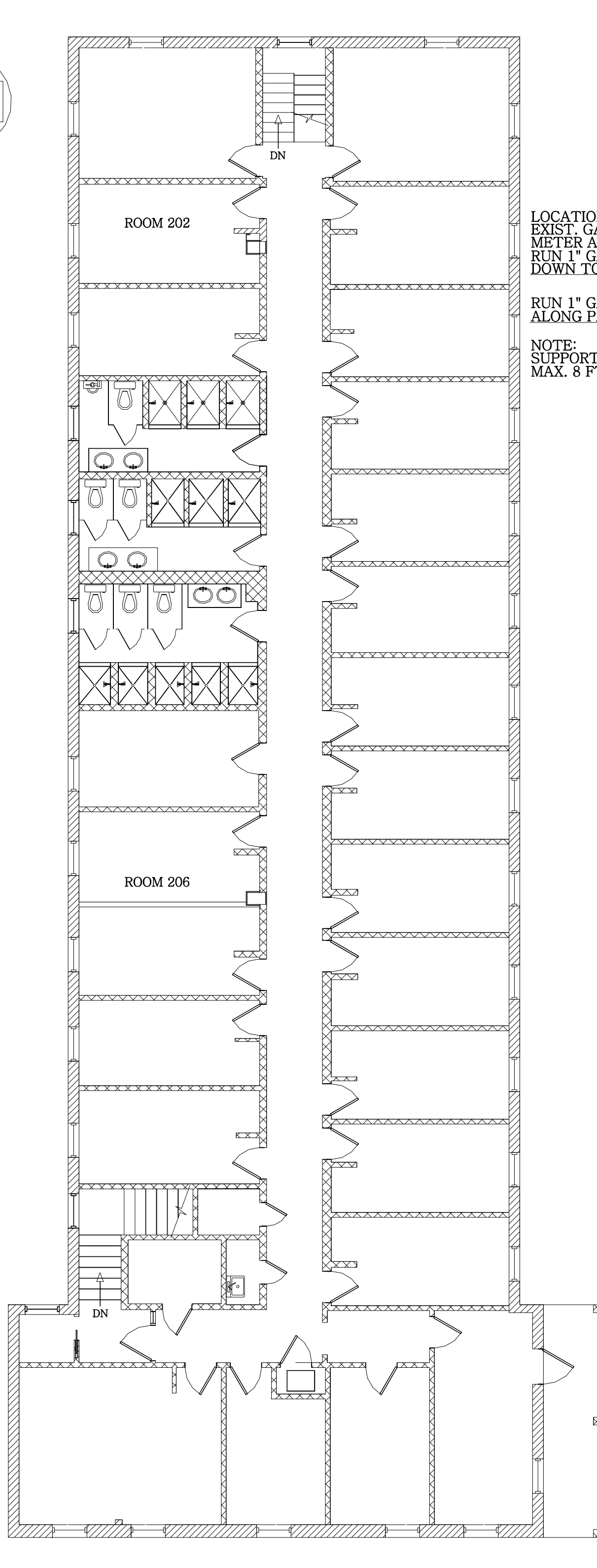
NOTE: SIZED USING TABLE 402(2) - UTILITY GAS CALCULATIONS BASED ON LONGEST LENGTH METHOD FOR GAS PRESSURE = 0.5 PSI  
PRESSURE DROP = 0.5 INCH WATER COLUMN (BASED ON A 0.60 SPECIFIC GRAVITY GAS)



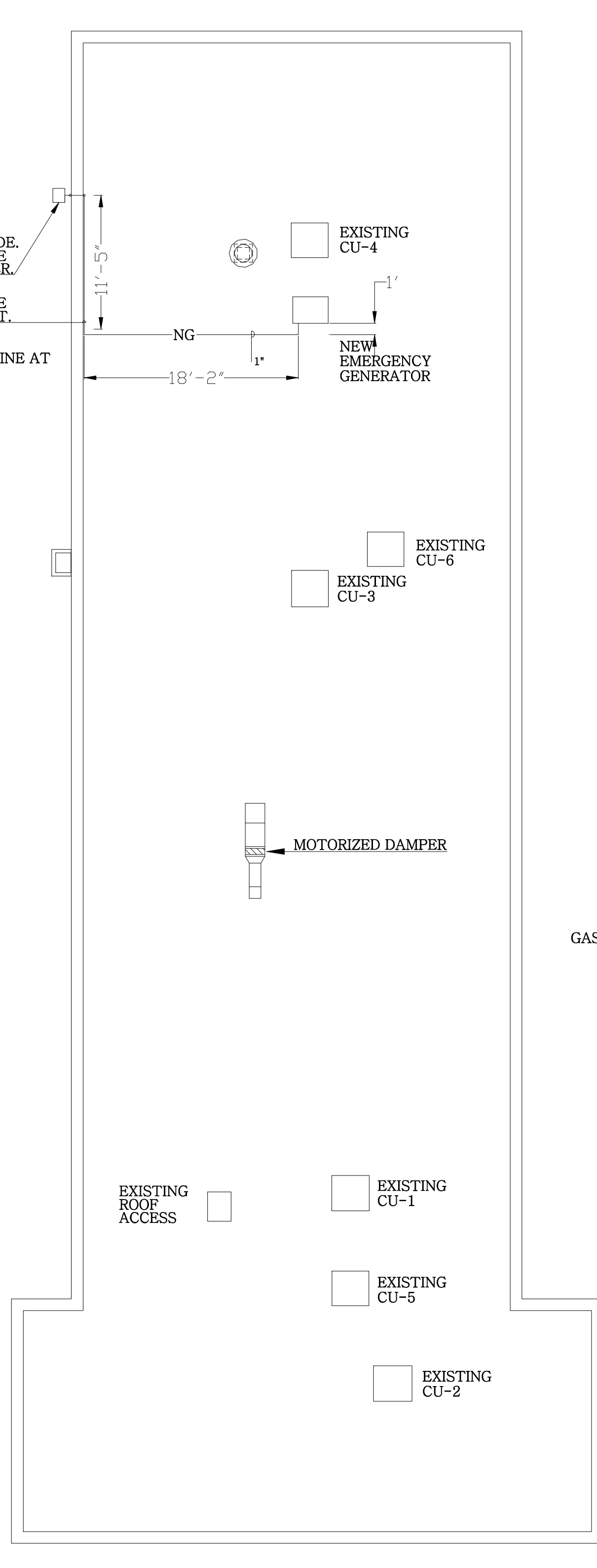
GENERATOR CONN. DETAIL  
N.T.S.



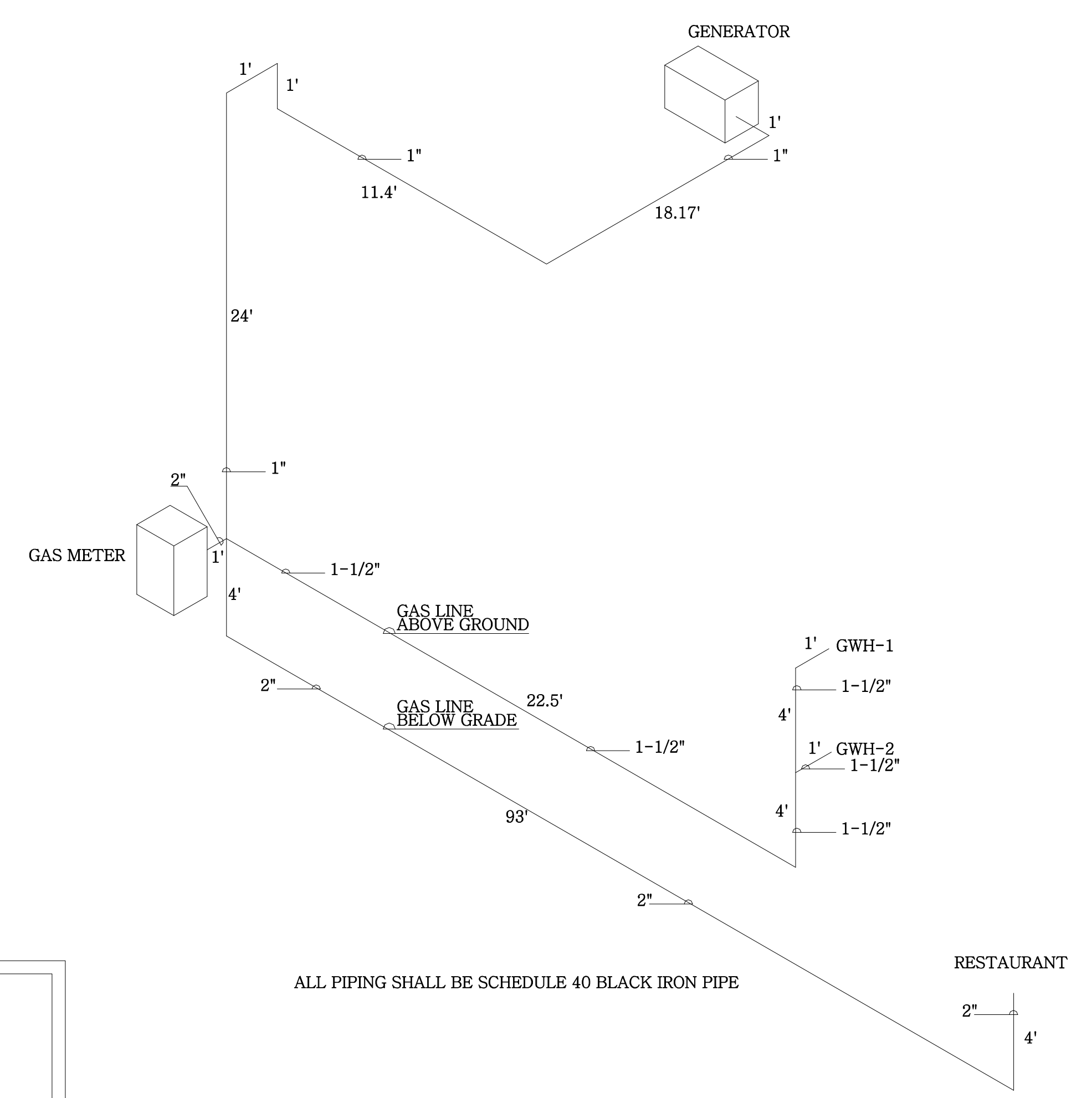
FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"



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



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



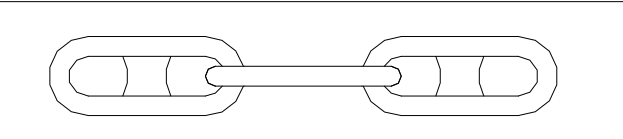
ALL PIPING SHALL BE SCHEDULE 40 BLACK IRON PIPE

NATURAL GAS ISOMETRIC  
N.T.S.

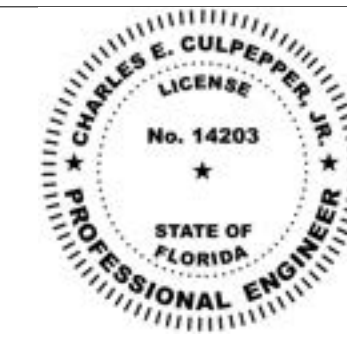
CHARLES E. CULPEPPER, JR.  
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SUITE 340  
MIAMI, FLORIDA 33131  
TEL: (305) 572-5189  
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ARCHITECTURAL, CIVIL, ELECTRICAL, ENVIRONMENTAL  
MECHANICAL, STRUCTURAL  
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST  
FAN SYSTEM



SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139



CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-066511  
STATE OF ILLINOIS LICENSE NO. 062-043107  
STATE OF FLORIDA LICENSE NO. 14203

charles e culpepper Digitally signed by charles e culpepper Date: 2021.07.06 23:35:32 -04'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED BY CHARLES E. CULPEPPER, JR. (FLA PE LISC 14203) ON THE DATE INCLUDED WITHIN THE DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATED CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Issue Date: JUNE 23, 2021

| Revisions |      |             |
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CULPEPPER

Project Number: 20-169 Drawn By: CEC  
Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN STRUCTURAL

Sheet Number: S-1 1 OF 1

**EQUIPMENT WIND LOADS:**  
FROM ASCE 7-10 & ASCE 7-16: FORCES ON ROOFTOP STRUCTURES.  
HORIZONTAL  
 $F_h = q_h(GC_p)A_r$  (ASCE 7-10 Equation 29.5-2)  
VERTICAL  
 $F_v = q_h(GC_p)A_r$  (ASCE 7-10 Equation 29.5-3)  
WHERE:  
 $q_h$  = velocity pressure evaluated at building mean roof height.  
 $A_r$  = horizontal projected area of equipment.  $A_r = 3' \times 3' = 9$  sq. ft.  
 $(GC_p)_h = 1.9$   
 $(GC_p)_v = 1.5$   
 $q = 0.00256 V^2$ ; for  $V = 180$  mph;  $q = 82.95$  lbs/sq. ft; use 83 lbs/sq ft.  
 $q_h = q C_d C_e I$  for:  $q = 83$ ;  $C_d = 1.3$ ;  $C_e = 1.2$ ;  $I = 1$ ;  $q_h = 130$  lbs/sq ft  
 $F_h = 2,223$  lbs;  $F_v = 1,755$  lbs;

**NOTES:**  
1. REFER TO SHEET M-1 FOR GENERAL NOTES.  
2. REFER TO SHEET M-1 FOR APPLICABLE CODES.  
3. REFER TO SHEET M-1 FOR SCOPE OF WORK.  
4. FOR CHARACTERISTICS OF GENERATOR, MOTORIZED DAMPER AND EXHAUST FAN, REFER TO SHEET M-2.

SHOP DRAWING / SUBMITTAL REVIEW

APPROVED  APPROVED WITH CHANGES NOTED  
 REVISE AND RESUBMIT  REJECTED

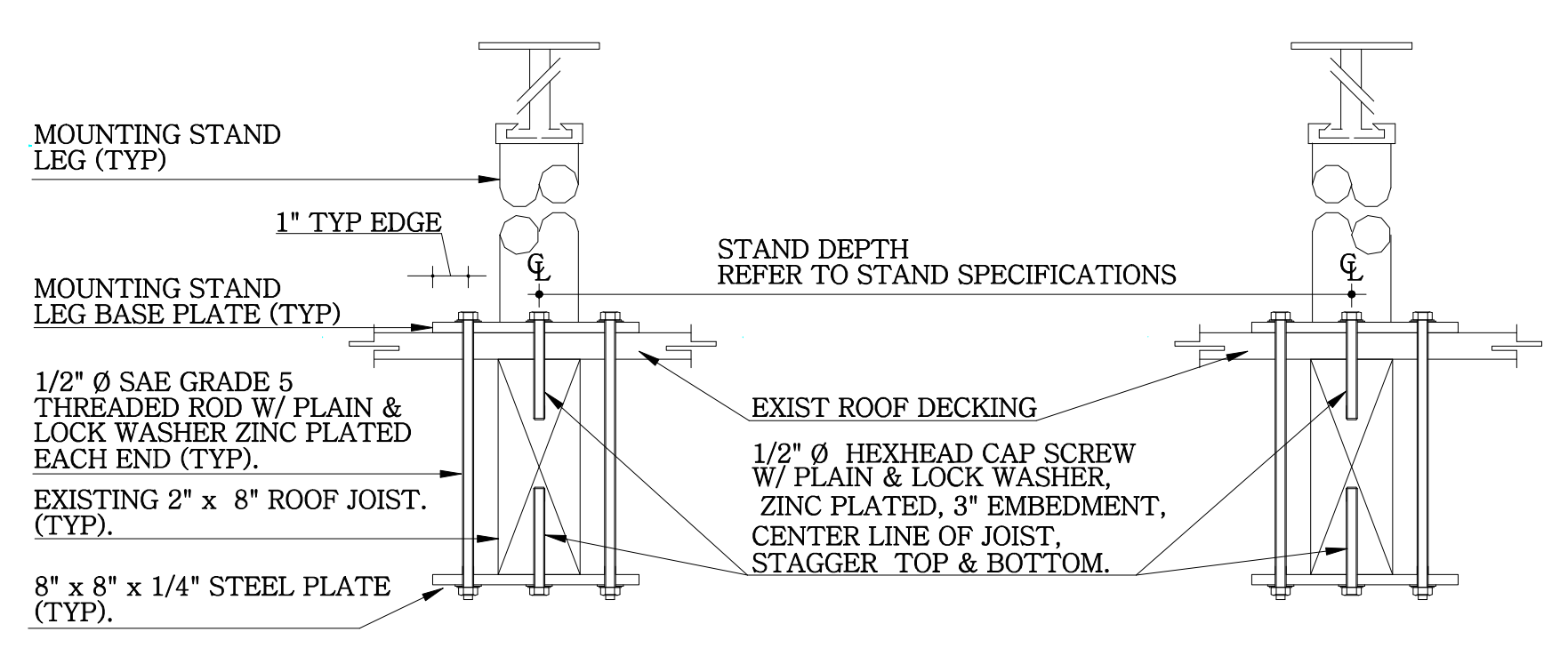
SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL PERFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: RPA DATE: 7/15/21

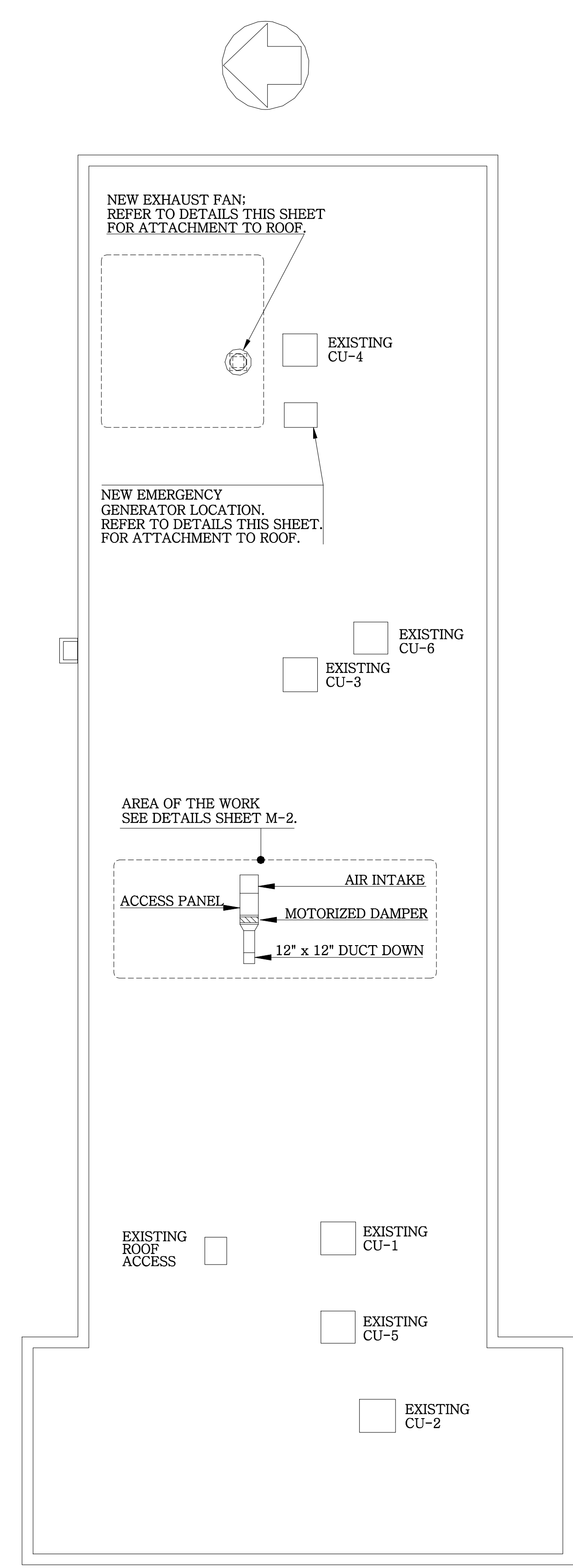
RICARDO PEREZ DE ALEJO  
RPA ENGINEERING, INC.



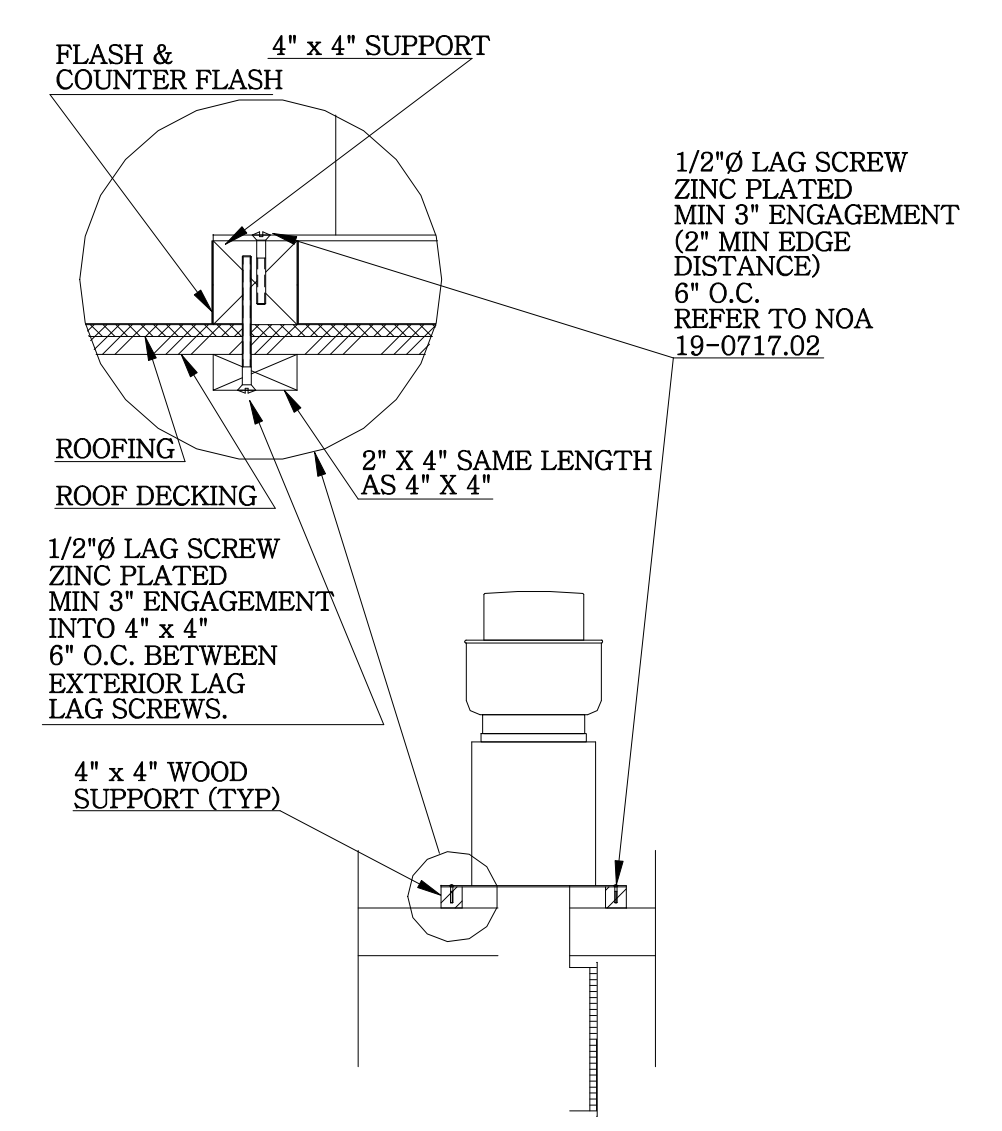
**NOTES:**  
1. PART NO. AS14H18  
2. MIAMI TECH INC.  
3. NOA 17-1218.02  
4. WIND LOAD CALCULATIONS ABOVE RIGHT THIS SHEET.  
**GENERATOR MOUNTING STAND**  
N.T.S.



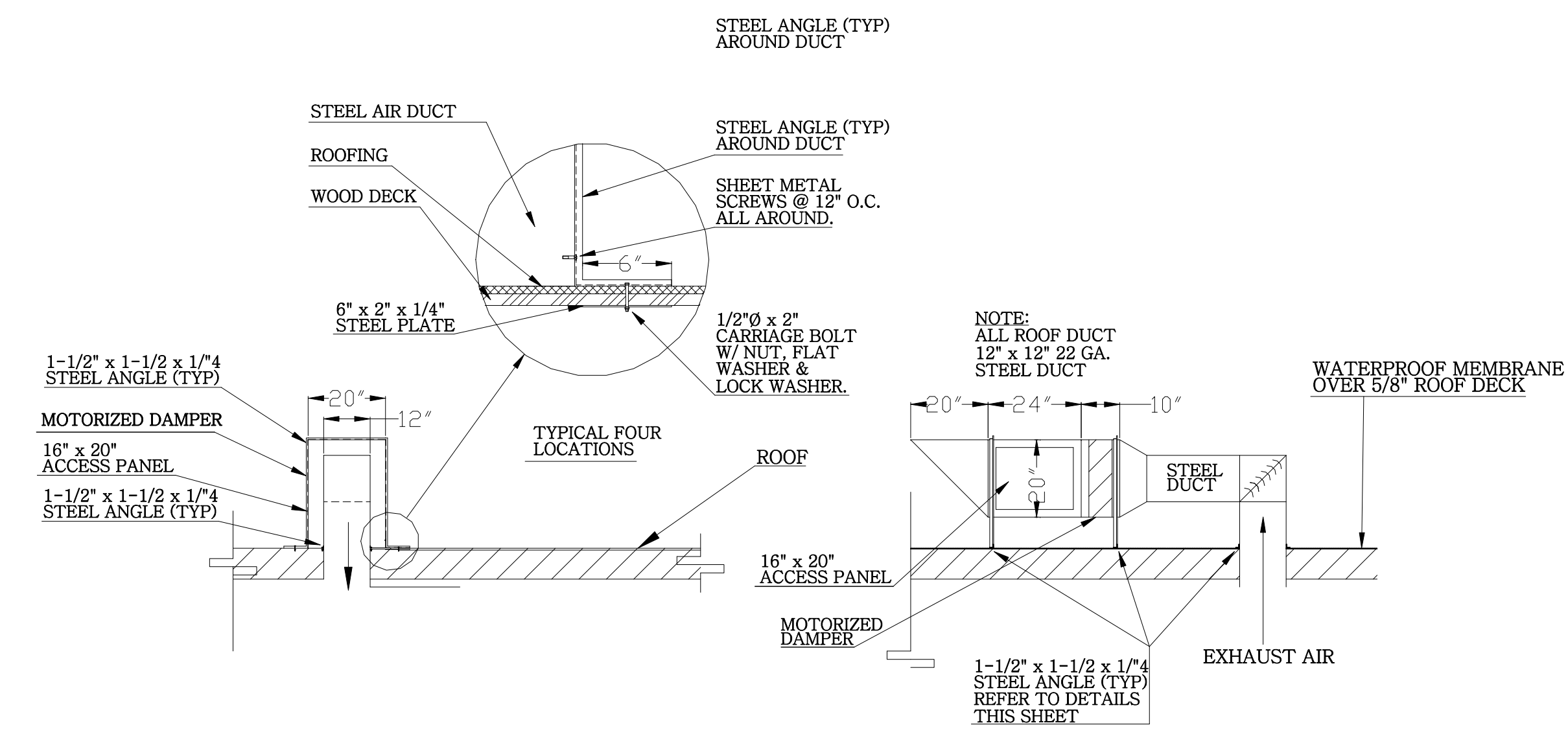
**ATTACHMENT OF METAL STAND TO ROOF JOISTS**  
N.T.S.



**ROOF PLAN**  
SCALE: 1/8" = 1'-0"

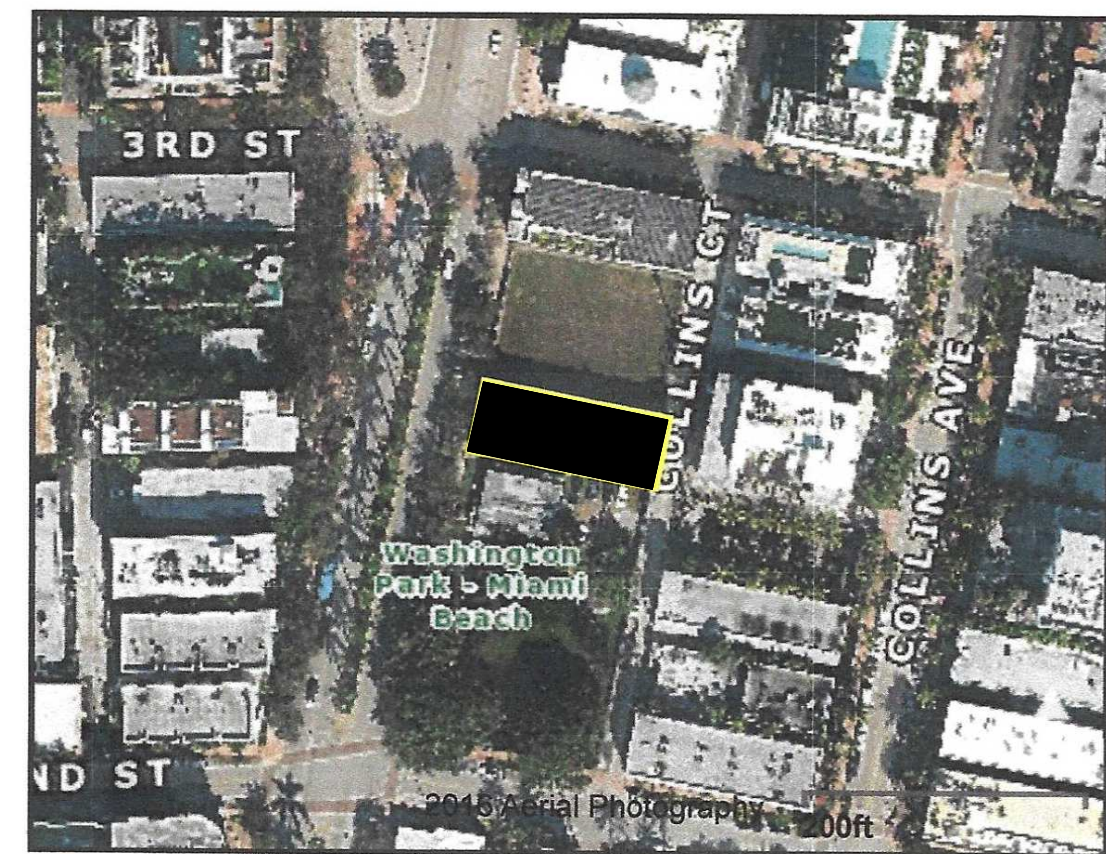


**ATTACHMENT OF EXHAUST FAN TO ROOF.**  
N.T.S.



**ATTACHMENT OF MOTORIZED DAMPER TO ROOF.**  
N.T.S.

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AERIAL SITE PLAN: 235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA  
N.T.S.



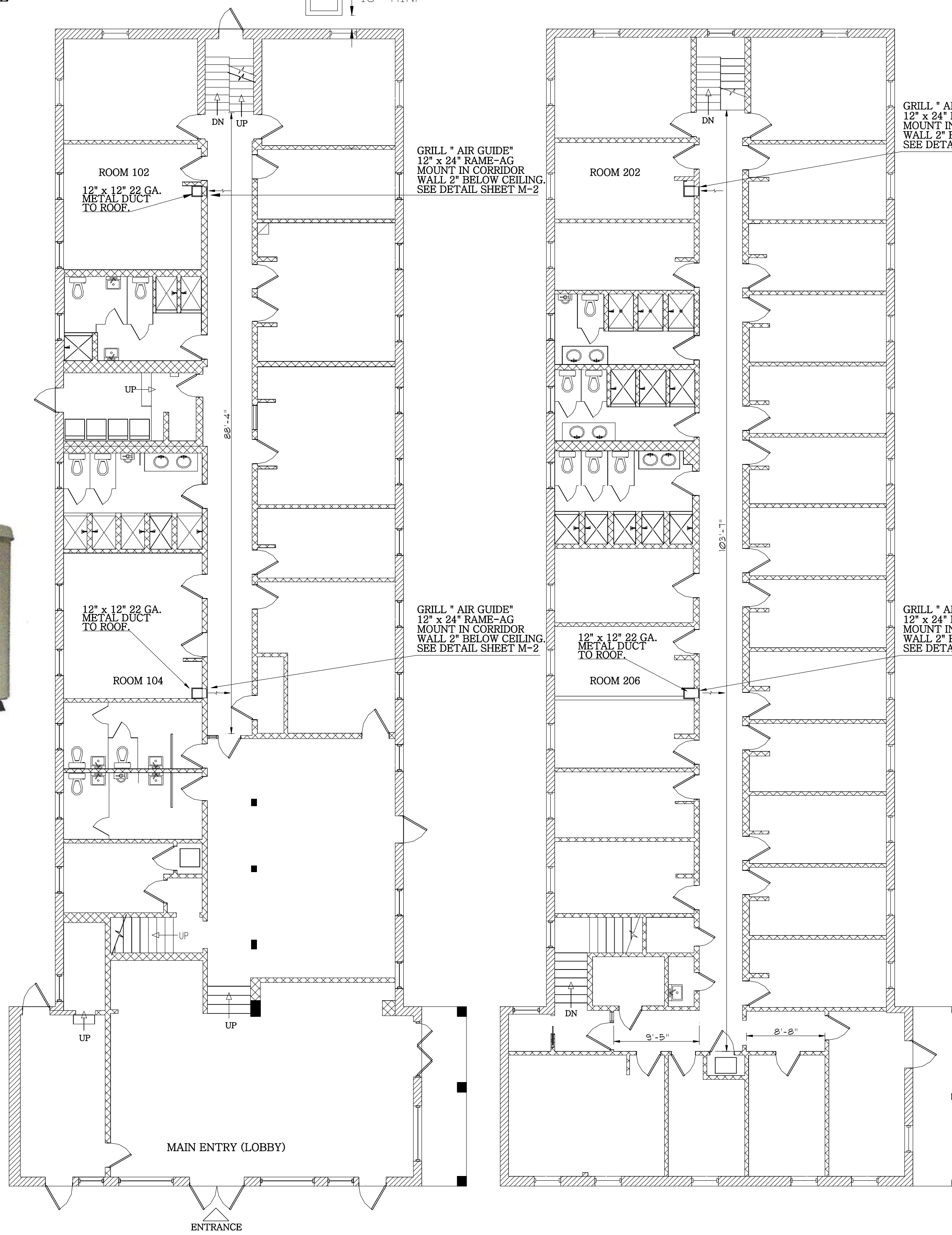
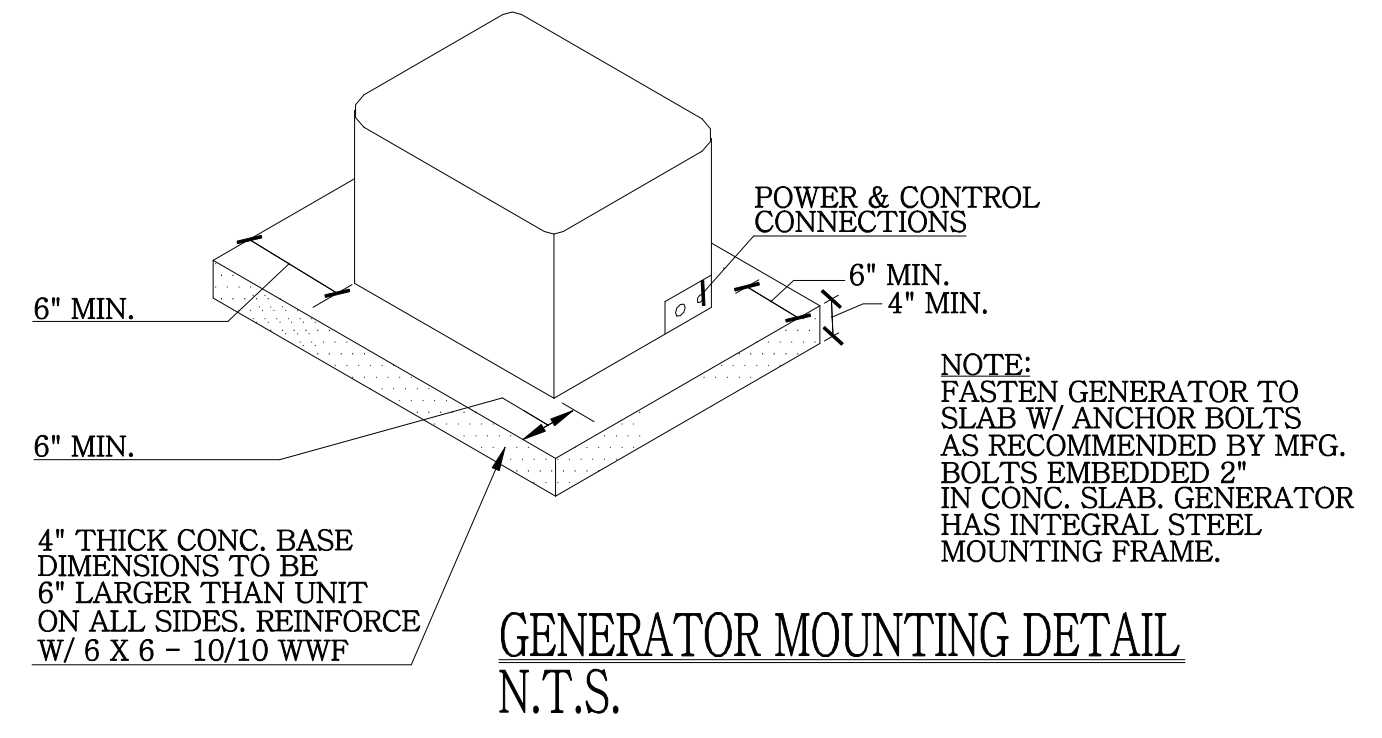
GREENHECK  
Model: CUBE-141-5  
Belt Drive Upblast Centrifugal Roof Exhaust Fan



GENERAC  
Model: 6698  
Standby Generator  
7.5 KW

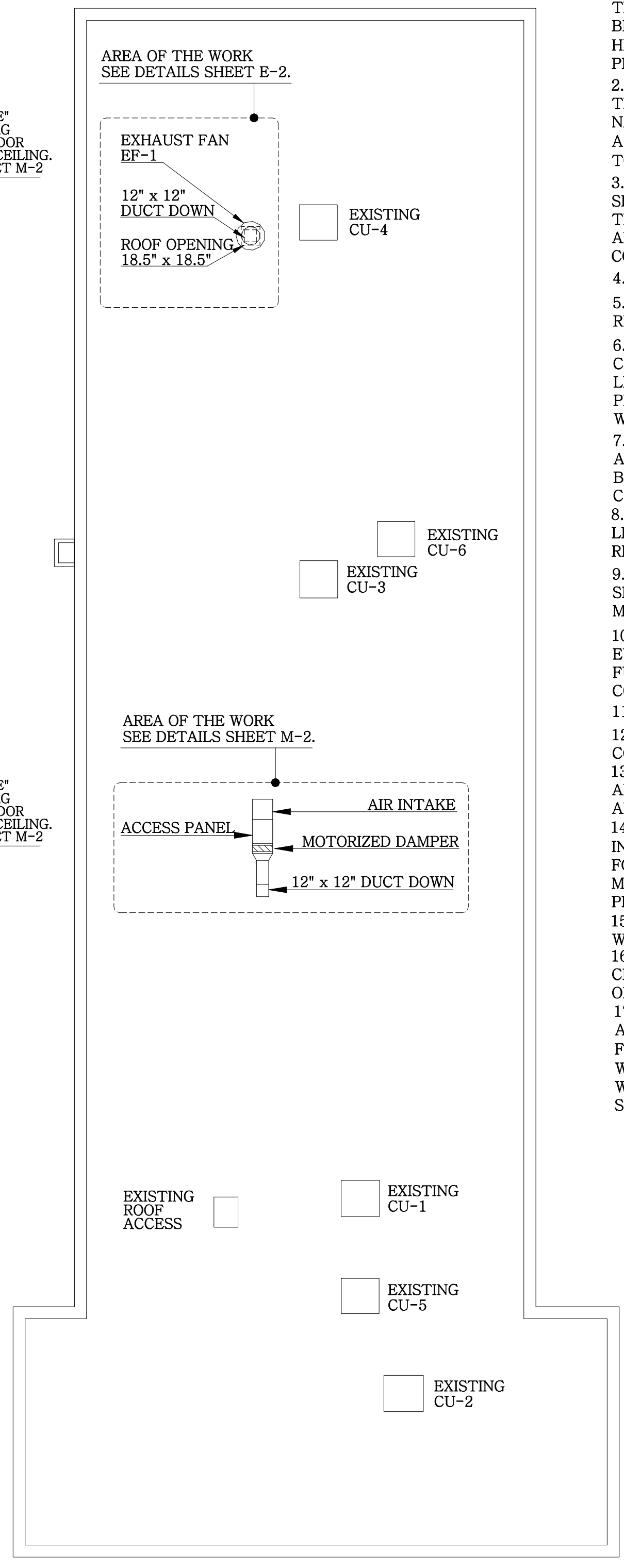


DATON MFG  
Model: 5NKK3  
Motorized Damper  
120 Volts



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

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



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

**CODES:**

THE CODES IN EFFECT AT THE TIME OF THIS PLAN SUBMISSION ARE THE FLORIDA BUILDING CODE, EXISTING 2017.

**SCOPE OF THE WORK:**

- THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING SMOKE EXHAUST SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
- THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
  - EXHAUST FAN.
  - MOTORIZED DAMPER.
  - STANDBY GENERATOR.
  - AIR DUCTS AND GRILLES.
  - ALL CONTROLS.
  - ALL ELECTRICAL POWER AND CONTROL WIRING.
  - ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
- ALL EQUIPMENT SPECIFIED BY MANUFACTURER'S NUMBER SHALL INCLUDE ALL ACCESSORIES, CONTROLS, ETC. LISTED IN THE CATALOG AS STANDARD WITH THE EQUIPMENT. OPTIONAL OR ADDITIONAL ACCESSORIES SHALL BE FURNISHED AS SPECIFIED.
- REFER TO ALL DRAWINGS AND COOPERATE WITH ALL OTHER TRADES IN ORDER PROPERLY COORDINATE THE WORK.

**GENERAL NOTES:**

- IT IS THE INTENTION OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE THE CONTRACTOR WITH SUFFICIENT INFORMATION FOR HIM/HER TO PREPARE A BID FOR A COMPLETE OPERATING INSTALLATION. IF THE CONTRACTOR FEELS HE/SHE NEEDS ADDITIONAL INFORMATION, CONTACT THE ENGINEER OF RECORD PRIOR TO SUBMITTING A BID.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL EXISTING CONDITIONS. THIS INCLUDES BUT SHALL NOT BE LIMITED TO: PROPOSED LOCATION AND NATURE OF ALL NEW WORK AND ANY EXISTING CONSTRUCTION. BY SUBMITTING A BID, THE CONTRACTOR VERIFIES THAT HE/SHE HAS PERFORMED THIS TASK TO HIS/HER OWN SATISFACTION.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, ALL LOCAL CODES AND ORDINANCES, IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EDITION AS NOTED AND IN ACCORDANCE WITH ANY NATIONAL REQUIREMENTS THAT ARE APPLICABLE. IN THE CASE OF ANY CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE "ADA" ACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY RELATED OSHA REQUIREMENTS DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED AND INSURED STATE CERTIFIED CONTRACTORS OF THE PROPER DISCIPLINE OR, BY CONTRACTORS LICENSED AND INSURED IN THE JURISDICTION WHERE THE WORK IS TO BE PERFORMED OR, BY THE OWNER IF APPROVED BY THE LOCAL BUILDING OFFICIAL WITHIN THE JURISDICTION OF WHERE THE WORK IS TO BE PERFORMED.
- INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. NO WORKER SHALL BE PERMITTED ON THE JOB SITE THAT IS NOT COVERED BY WORKMEN'S COMPENSATION INSURANCE.
- CONTRACTOR SHALL ARRANGE AND PAY FOR ALL REQUIRED PERMITS, FEES, LICENSES, INSPECTIONS, CONNECTIONS, TESTS AND OTHER CHARGES AS REQUIRED. OBTAIN ALL THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
- CONTRACTOR IS DIRECTED TO REVIEW ALL THE BUILDING PLANS AND SPECIFICATIONS FOR LIMITATIONS OF CONSTRUCTION, IDENTIFICATION OF MATERIALS AND PRODUCTS, AND DEFINITION OF WORKMANSHIP.
- IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO MEET THE OBJECTIVES OF THE CONSTRUCTION AS DELINEATED HEREIN.
- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
- CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
- FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
- CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

**MECHANICAL NOTES:**

**MATERIALS:**

- ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
- ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.
- ALL STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A-36.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A187-97.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

**METHODS:**

- INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
- PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
- PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

Architectural Engineer  
BC2013662  
09/15/2020 10:42 PM

CHARLES E. CULPEPPER, JR.  
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ARCHITECTURAL - CIVIL - ELECTRICAL - ENVIRONMENTAL  
MECHANICAL - STRUCTURAL  
MIAMI - NEW YORK - CHICAGO

SMOKE EXHAUST FAN SYSTEM

PROJECT NAME

SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK LICENSE NO. 16-06611  
STATE OF ILLINOIS LICENSE NO. 062-048107  
STATE OF FLORIDA LICENSE NO. 1420

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Issue Date: SEPTEMBER 15, 2020

| Revisions |      |             |
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| No.       | Date | Description |
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CULPEPPER

Project Number: 1786 Drawn By: CEC  
Designed By: CEC Checked By: CEC

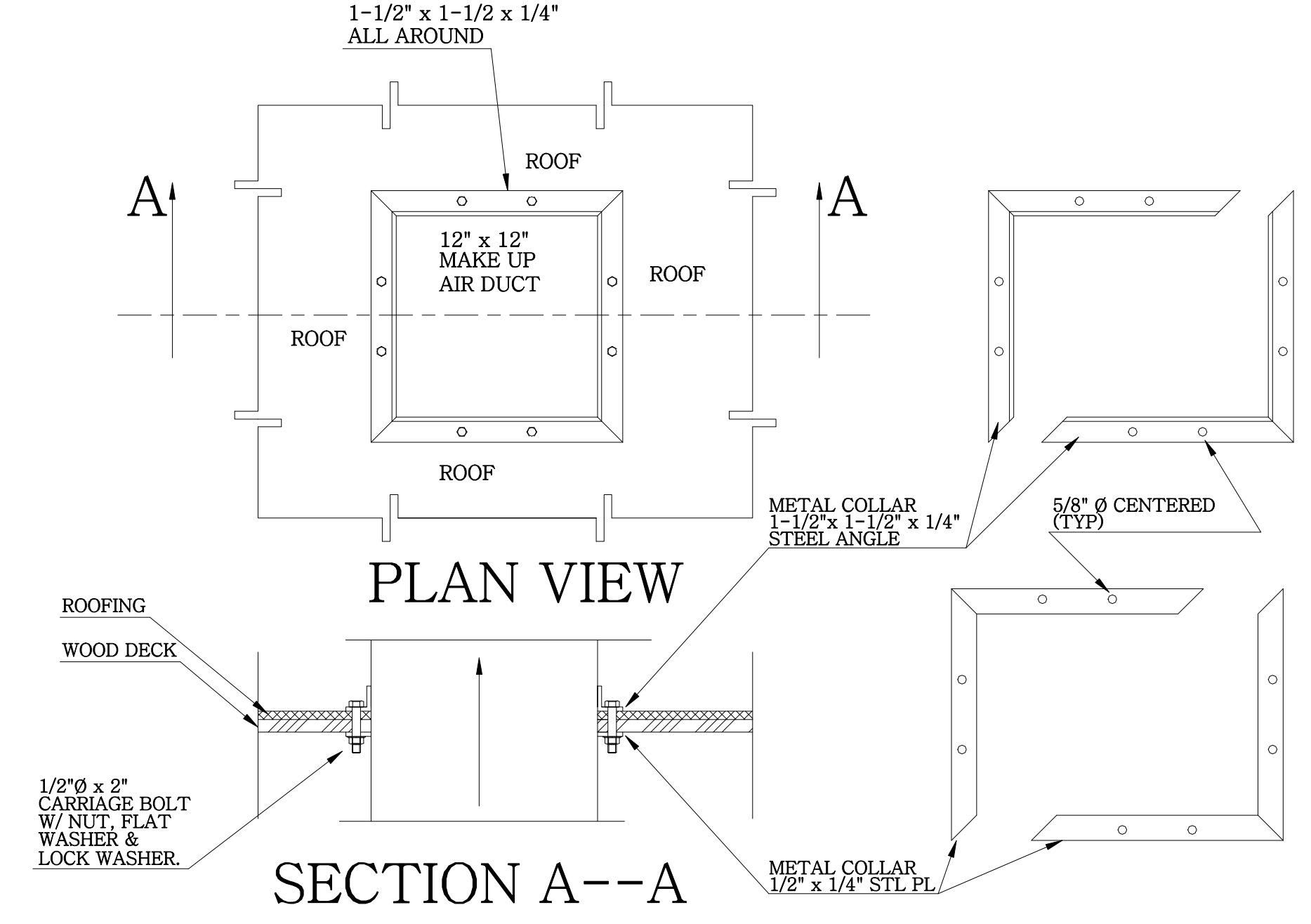
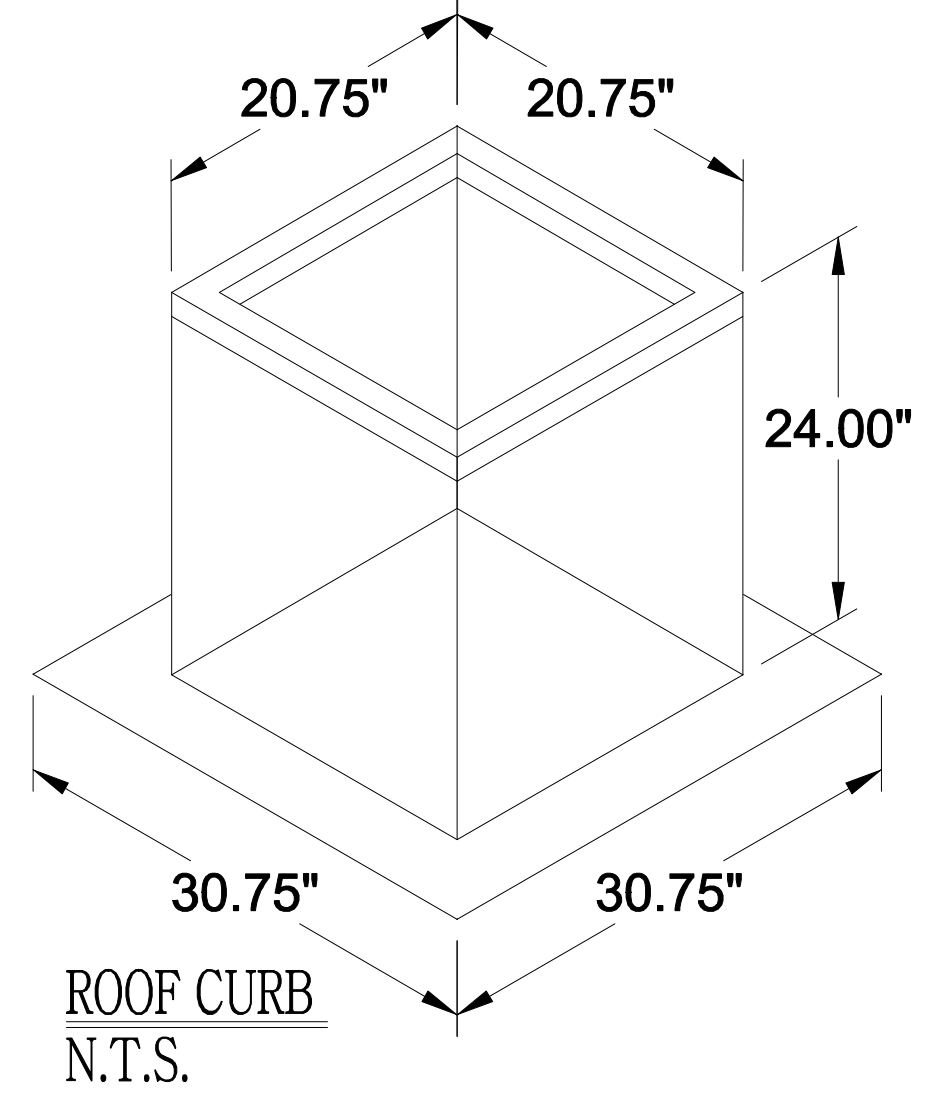
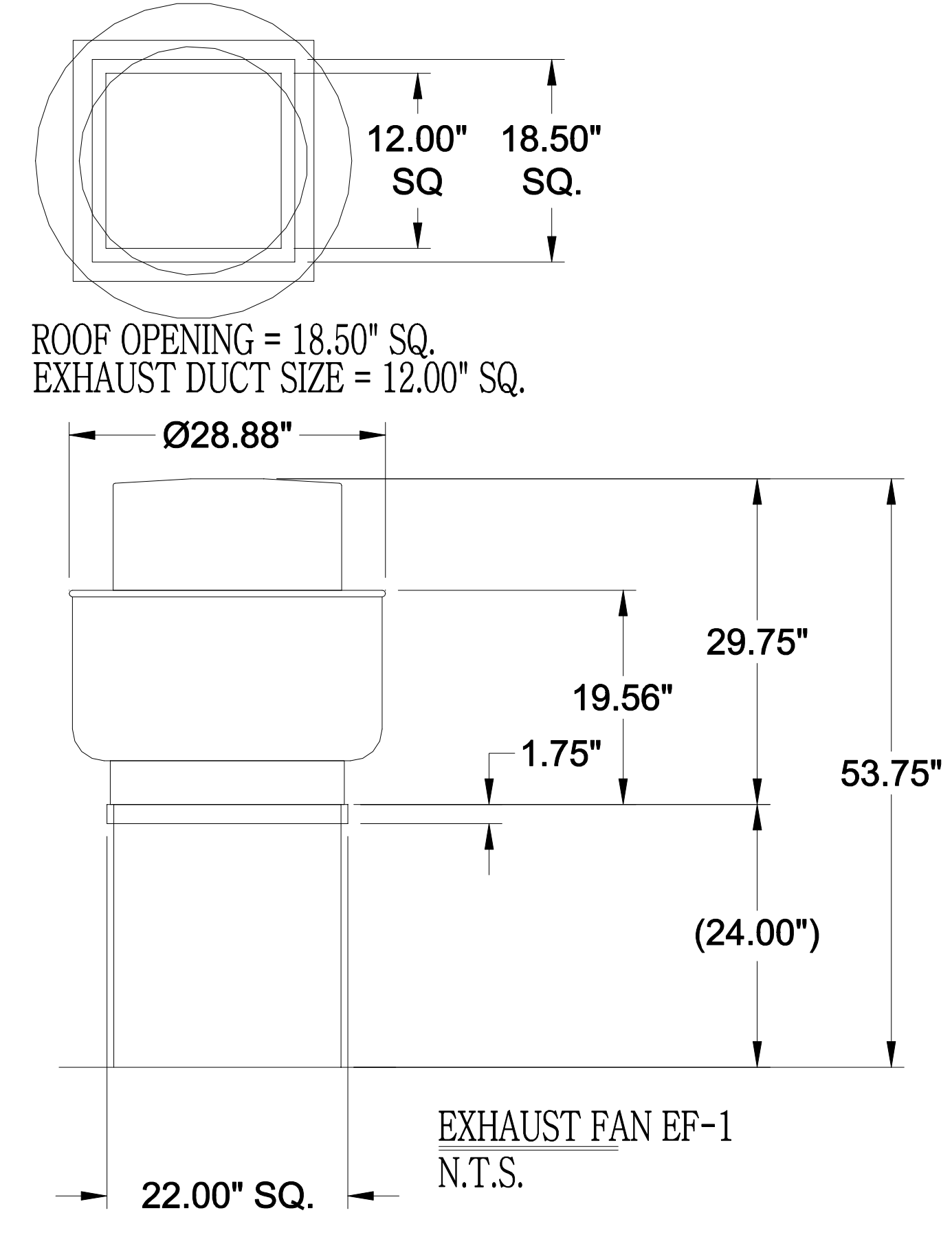
Sheet Title: EXHAUST FAN FLOOR PLANS  
Sheet Number: M-1 1 OF 2

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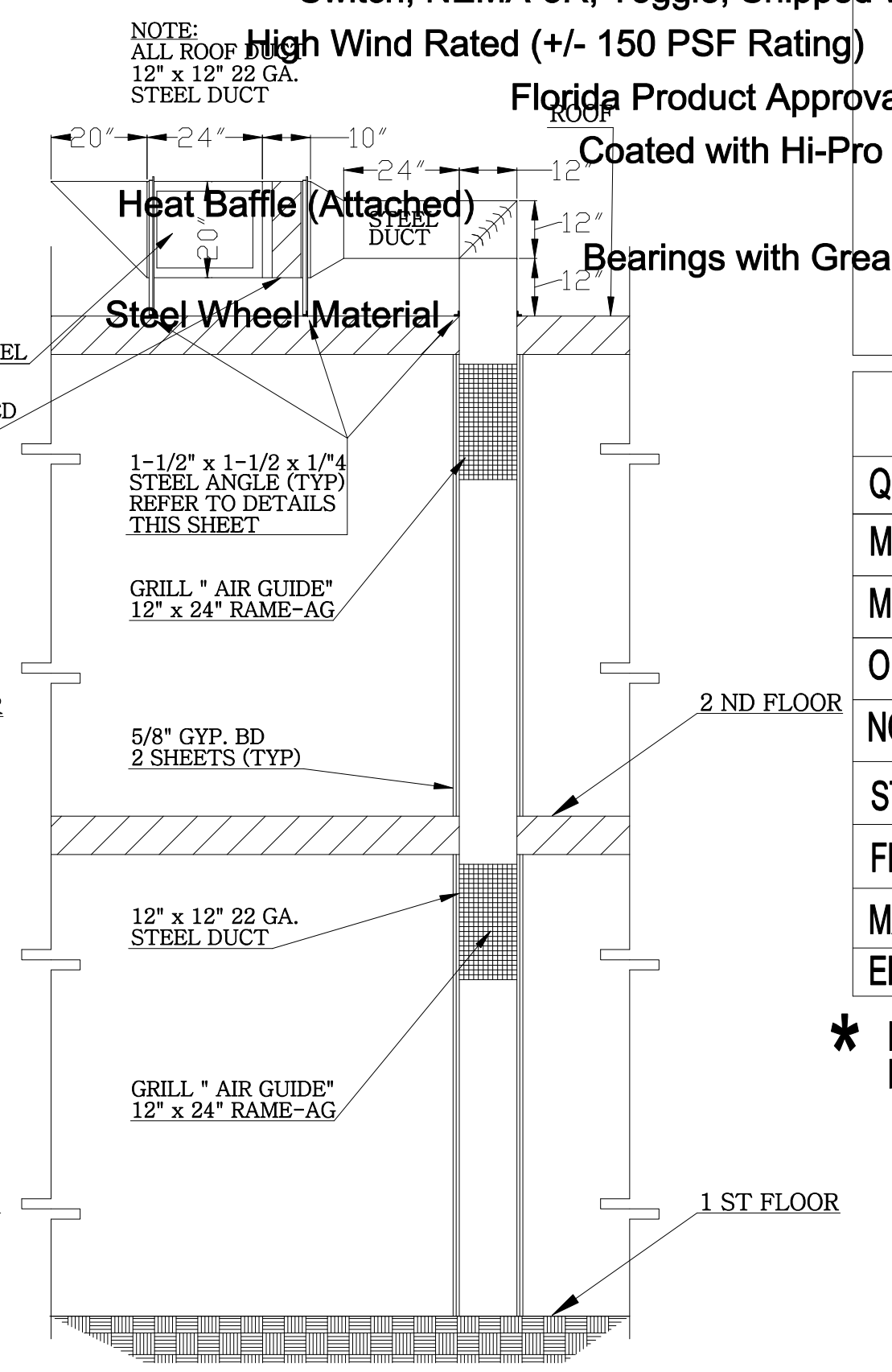
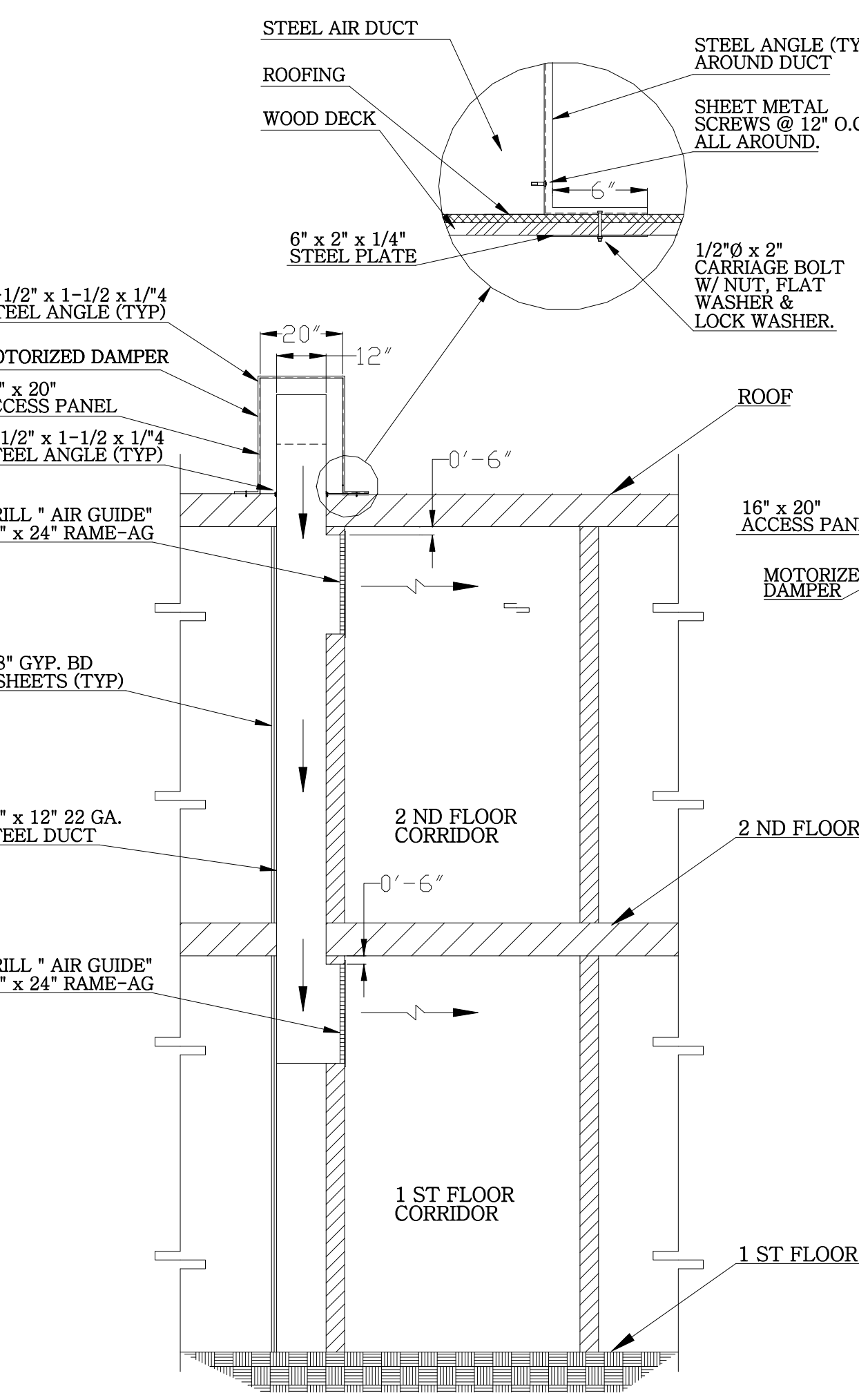
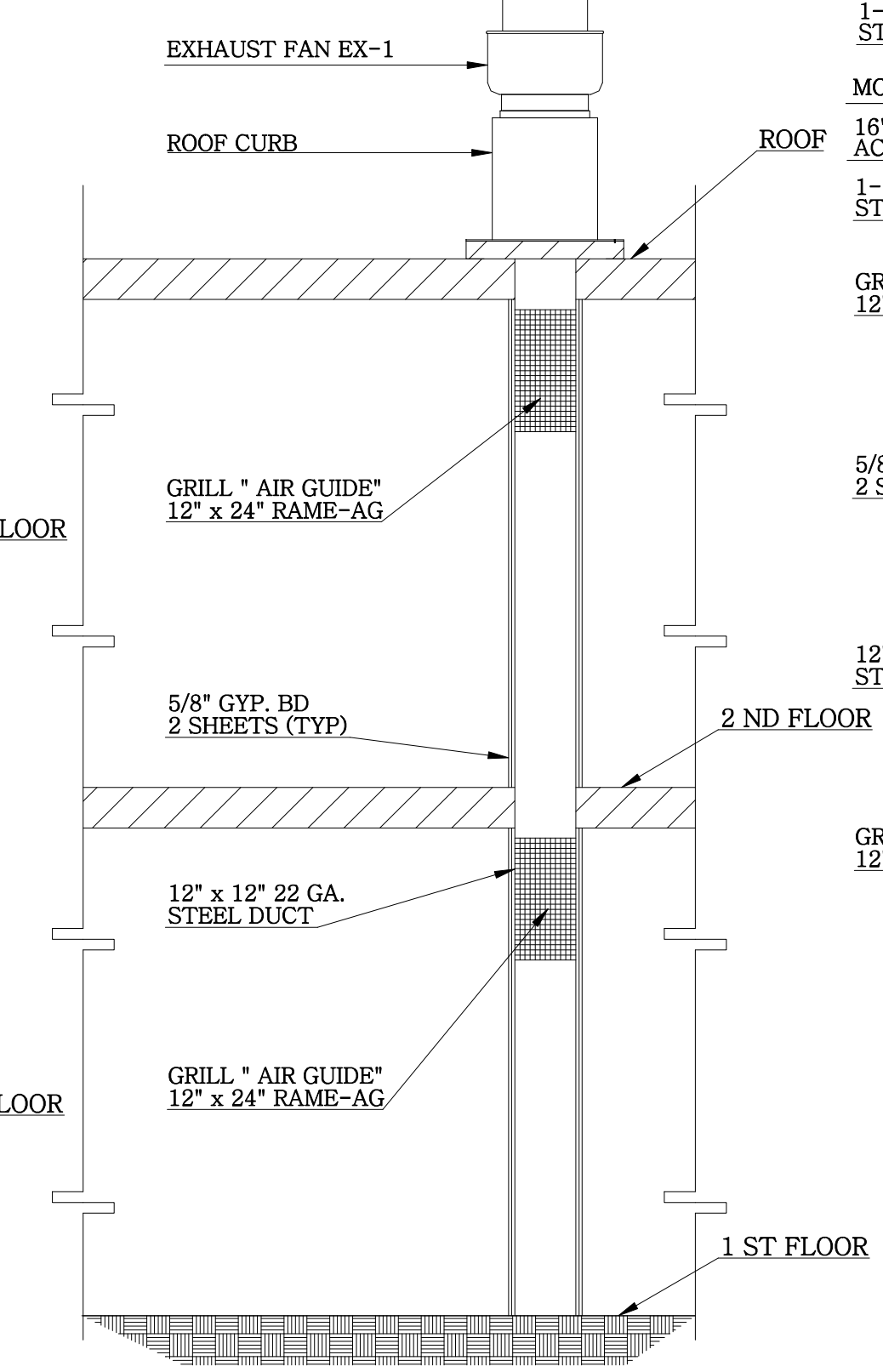
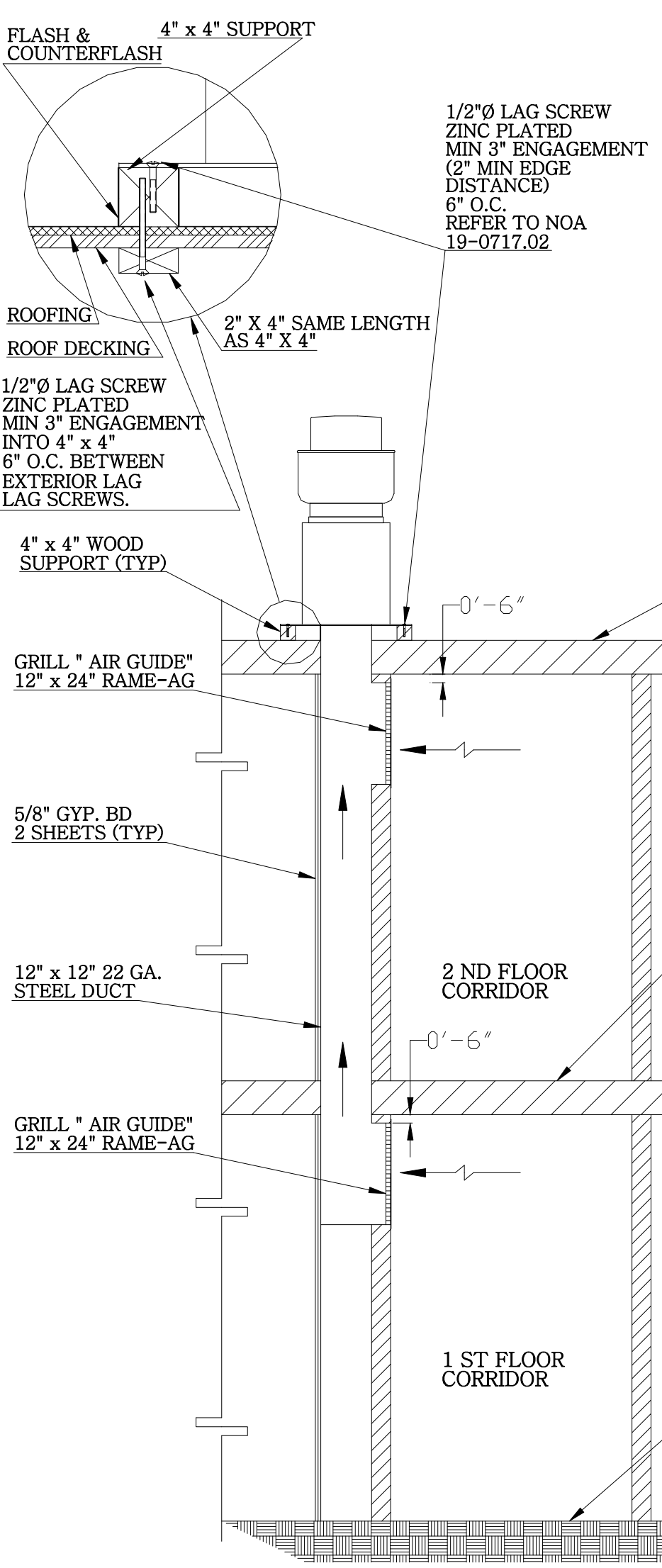
### Belt Drive Upblast Centrifugal Roof Exhaust Fan

| MARK INFORMATION |        |            | FAN INFORMATION |                           |         |                      |              | MOTOR INFORMATION |          |           |           |          |          |
|------------------|--------|------------|-----------------|---------------------------|---------|----------------------|--------------|-------------------|----------|-----------|-----------|----------|----------|
| QTY              | MARK   | MODEL      | VOLUME (CFM)    | TOTAL EXTERNAL SP (IN WG) | FAN RPM | OPERATING POWER (HP) | WEIGHT (LB.) | SIZE (HP)         | V/C/P    | ENCLOSURE | MOTOR RPM | WINDINGS | NEC FLA* |
| 1                | Mark 2 | CUBE-141-5 | 1,500           | 0.75                      | 1,228   | 0.39                 | 78           | 0.5               | 115/60/1 | OP        | 1725      | 1        | 9.8      |

\*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



| EXHAUST FAN                   |               |
|-------------------------------|---------------|
| <b>Dimensional</b>            |               |
| Quantity                      | 1             |
| Weight w/o Acc's (lb)         | 74 LBS        |
| Weight w/ Acc's (lb)          | 78 LBS        |
| Weight w/ Acc's and Curb (lb) | 125 LBS       |
| Max T Motor Frame Size        | 145           |
| Roof Opening (in.)            | 18.5" x 18.5" |
| <b>Performance</b>            |               |
| Volume (CFM)                  | 1,500         |
| Total External SP (in. wg)    | 0.75          |
| Fan RPM                       | 1228          |
| Operating Power (hp)          | 0.39          |
| <b>Motor</b>                  |               |
| Motor Mounted                 | Yes           |
| Size (hp)                     | 1/2           |
| Voltage/Cycle/Phase           | 115/60/1      |
| Enclosure                     | ODP           |
| Motor RPM                     | 1725          |
| Efficiency Rating             | Standard      |
| Windings                      | 1             |
| NEC FLA* (Amps)               | 9.8           |



#### Mark 2 : SELECTED OPTIONS AND ACCESSORIES

- Standard curb cap size - 22 in. square
- UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)
- Switch, NEMA-3R, Toggle, Shipped with Unit
- High Wind Rated (+/- 150 PSF Rating)
- Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02
- Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
- Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

| MOTORIZED DAMPER |             |
|------------------|-------------|
| QUANTITY         | 1           |
| MFG              | DATON MFG   |
| MODEL #          | 5NKK3       |
| OPENING REQUIRED | 20" x 20"   |
| NO OF "F" PANELS | 1           |
| START            | AUTOMATIC * |
| FLANGE WIDTH     | 1/2"        |
| MATERIAL         | ALUMINUM    |
| ELEC. CHAR.      | 120/60/1    |

| STANDBY GENERATOR      |                            |
|------------------------|----------------------------|
| QUANTITY               | 1                          |
| MFG                    | GENERAC                    |
| MODEL #                | 6998                       |
| RATED WATTS            | 7.5 KW                     |
| FUEL TYPE              | LIQUID PROPANE/NATURAL GAS |
| AMPERES                | 31.25 LP/25 NG             |
| START                  | AUTOMATIC                  |
| PHASE                  | SINGLE                     |
| TRANSFER SW            | YES                        |
| CIRCUITS               | 8                          |
| ELEC. CHAR.            | 240/60/1                   |
| ENCLOSURE              | STEEL/NEMA 3R              |
| MOUNTING PAD           | ATTACHED                   |
| BATTERY REQUIRED       | YES                        |
| BATTERY INCLUDED       | NO                         |
| DIMENSIONS (L x W x H) | 36 x 27 x 36               |
| WEIGHT                 | 280 LBS                    |

\* NORMAL STATUS: SPRING CLOSED, POWER OPEN

SMOKE EXHAUST FAN SYSTEM

PROJECT NAME

SOBE HOSTEL  
235 WASHINGTON AVENUE  
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.  
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STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

| No. | Date | Description |
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CULPEPPER

Project Number: 1784 Drawn By: CEC  
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