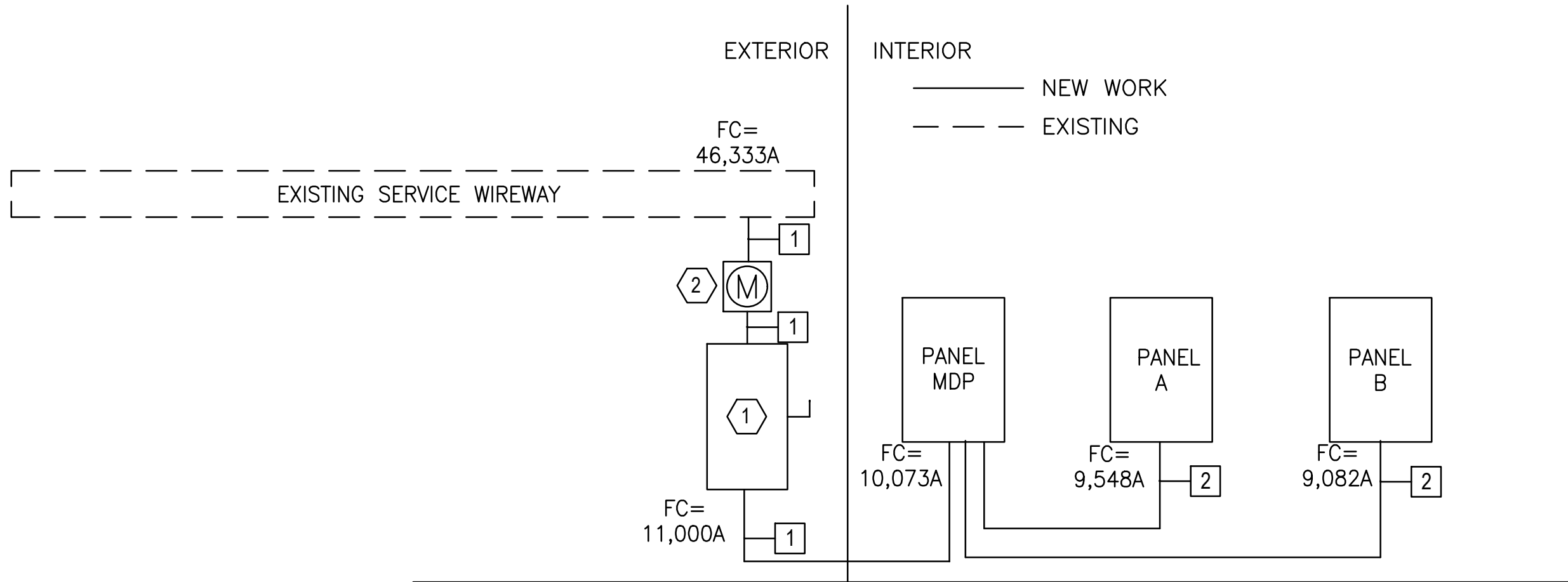




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1  
E001 NTS

**BAR-B-CUTIE ELECTRICAL RISER DIAGRAM**

LOAD SUMMARY

|                                                                                                       | <u>CONN VA</u> |          | <u>DEMAND VA</u> |  |
|-------------------------------------------------------------------------------------------------------|----------------|----------|------------------|--|
| <u>PANEL 'MDP':</u>                                                                                   |                |          |                  |  |
| LIGHTING:                                                                                             | 4600           | x 125% = | 5750             |  |
| RECEPTACLE:                                                                                           | 14800          | x 100% = | 14800            |  |
| HVAC:                                                                                                 | 52300          | x 80% =  | 41840            |  |
| MISC:                                                                                                 | 4400           | x 100% = | 4400             |  |
| KITCHEN EQ:                                                                                           | 43800          | x 65% =  | 28470            |  |
| TOTAL PANEL 'MDP'                                                                                     | 119900/360=    |          | 95260/360=       |  |
|                                                                                                       | 333A           |          | 265A             |  |
| 265A x 125% = 331A                                                                                    |                |          |                  |  |
| THEREFORE, SIZE PANEL 'MDP', PANEL FEEDER AND MAIN PANEL DISCONNECT SWITCH FOR <u>400A</u> .          |                |          |                  |  |
| <u>PANEL 'A':</u>                                                                                     |                |          |                  |  |
| LIGHTING:                                                                                             | 4600           | x 125% = | 5750             |  |
| RECEPTACLE:                                                                                           | 14800          | x 100% = | 14800            |  |
| KITCHEN EQ:                                                                                           | 9000           | x 65% =  | 5850             |  |
| MISC:                                                                                                 | 4400           | x 100% = | 4400             |  |
| TOTAL PANEL 'A'                                                                                       | 32800/360=     |          | 30800/360=       |  |
|                                                                                                       | 89A            |          | 86A              |  |
| 86A x 125% = 107A                                                                                     |                |          |                  |  |
| THEREFORE, SIZE PANEL 'A', PANEL FEEDER AND MAIN PANEL CIRCUIT BREAKER SIZED <u>150A</u> IS ADEQUATE. |                |          |                  |  |
| <u>PANEL 'B':</u>                                                                                     |                |          |                  |  |
| HVAC:                                                                                                 | 6300           | x 100% = | 6300             |  |
| KITCHEN EQ:                                                                                           | 34400          | x 65% =  | 22360            |  |
| TOTAL PANEL 'B'                                                                                       | 40700/360=     |          | 28660/360=       |  |
|                                                                                                       | 113A           |          | 80A              |  |
| 80A x 125% = 100A                                                                                     |                |          |                  |  |
| THEREFORE, SIZE PANEL 'B', PANEL FEEDER AND MAIN PANEL CIRCUIT BREAKER FOR <u>150A</u> .              |                |          |                  |  |

| FEEDER SCHEDULE |      |                         |      |      |
|-----------------|------|-------------------------|------|------|
| MARK            | SETS | FEEDER                  | AMPS | NOTE |
| 1               | 1    | 4#500KCML, 1#3(G), 4"C. | 400A | —    |
| 2               | 1    | 4#1/0, 1#6(G), 2"C.     | 150A | —    |
|                 |      |                         |      |      |
|                 |      |                         |      |      |
|                 |      |                         |      |      |
|                 |      |                         |      |      |
|                 |      |                         |      |      |
|                 |      |                         |      |      |
| NOTES:          |      |                         |      |      |

GENERAL NOTES: (FOR 1/E001 ONLY)

- ALL ELECTRICAL PANELS ARE DESIGNED, BASED ON EATON EQUIPMENT AND SERIES RATED. IF AN ALTERNATE MANUFACTURER IS SUBSTITUTED, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROPERLY MATCH AND SERIES RATE ALL PANELS.
- ELECTRICAL EQUIPMENT A.I.C. RATING SHALL BE VERIFIED BY OBTAINING AVAILABLE FAULT CURRENT FROM ELECTRICAL UTILITY COMPANY. IF ADJUSTMENTS IN AIC RATING ARE REQUIRED, CONTRACTOR SHALL MAKE THE ADJUSTMENTS. CONTRACTOR SHALL PROVIDE LEGIBLY MARKED LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE FAULT CURRENT PER NEC 110.24(A).
- CONTRACTOR SHALL PROVIDE ARC FLASH WARNING NOTE ON ELECTRICAL EQUIPMENT PER NEC 110.16.

RISER NOTES:

- PROVIDE 400A, 208/120V, 3P, 4W MAIN DISCONNECT SWITCH WITH 400A CLASS RK1 FUSES, IN NEMA 3R ENCLOSURE AND RATED FOR SERVICE ENTRANCE. MOUNT TO EXTERIOR OF BUILDING.
- PROVIDE 400A, 208/120V, 3P, 4W METER BASE PER POWER COMPANY REQUIREMENTS. METER PROVIDED BY POWER COMPANY.

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.  
ARCHITECT

423 FISCHER TRAIL  
ELLIJAY, GEORGIA 30540

SEAL:



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RELEASED FOR  
CONSTRUCTION

ISSUES / REVISIONS:

| DATE     | DESCRIPTION |
|----------|-------------|
| 10/11/19 | PERMIT SET  |

DRAWN BY: BAM

CHKD BY: FAS

PROJECT DESCRIPTION:

PROJECT DESCRIPTION

PROJECT TITLE:

BAR-B-CUTIE  
SMOKEHOUSE  
2211 EAST GRIFFIN  
SUITE 100 & 110  
MISSION, TX 78572

SHEET TITLE:

RISER DIAGRAM,  
FAULT CURRENT  
CALCS & LOAD CALCS

PROJECT NO: 19044

E001

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| PROJ: BAR-B-CUTIE MISSION, TX                                                                                |           |             |     |              |      |                  |    |       |     | PANEL: MDP       |    | DATED: 10/11/19     |    | REVS: 00         |   | X |
|--------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|--------------|------|------------------|----|-------|-----|------------------|----|---------------------|----|------------------|---|---|
| 208                                                                                                          | VOLT-LL   |             | 22  | K-AIC RATING |      |                  |    |       |     | ENCLOSURE TYPE:  |    | NEMA 1              |    |                  |   |   |
| 120                                                                                                          | VOLT-LN   |             | 3   | PHASE        |      | 4                | W  |       |     | BRANCH OCP TYPE: |    | M.C BKRS            |    |                  |   |   |
| 400                                                                                                          | BUSS AMPS |             | 400 | MAIN OCP     |      |                  |    |       |     | GENERAL NOTES:   |    | SURFACE MTD, NOTE 1 |    |                  |   |   |
| R                                                                                                            | N         | DESCRIPTION | LT  | WVA          | AMP  | P                | #  | P     | #   | AMP              | P  | WVA                 | LT | DESCRIPTION      | N | R |
| 2                                                                                                            | RTU-1     | ---         | C   | 3288         | 40   | -                | 1  | A     | 2   | 150              | -  | 11000               | M  | PANEL A          | 3 |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 3  | B     | 4   | -                | /  | 10000               | A  | ---              |   |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 3  | C     | 6   | -                | /  | 11000               | R  | ---              |   |   |
| 2                                                                                                            | RTU-2     | ---         | C   | 3288         | 40   | -                | 7  | A     | 8   | 150              | -  | 12000               | A  | PANEL B          |   |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 9  | B     | 10  | -                | /  | 14000               | A  | ---              |   |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 3  | 11    | C   | 12               | -  | /                   | 3  | 14000            | A |   |
| 2                                                                                                            | RTU-3     | ---         | C   | 3288         | 40   | -                | 13 | A     | 14  | 20               | -  | 1088                | C  | MUA-1 (COND. #1) | 2 |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 15 | B     | 16  | -                | /  | 1088                | C  | ---              |   |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 3  | 17    | C   | 18               | -  | /                   | 3  | 1088             | C |   |
| 2                                                                                                            | RTU-4     | ---         | C   | 3288         | 40   | -                | 19 | A     | 20  | 20               | -  | 1088                | C  | MUA-1 (COND. #2) | 2 |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 21 | B     | 22  | -                | /  | 1088                | C  | ---              |   |   |
| ---                                                                                                          | ---       | ---         | C   | 3288         | -    | /                | 3  | 23    | C   | 24               | -  | /                   | 3  | 1088             | C |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 25 | A     | 26  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 27 | B     | 28  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 29 | C     | 30  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 31 | A     | 32  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 33 | B     | 34  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 35 | C     | 36  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 37 | A     | 38  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 39 | B     | 40  | /                |    |                     |    | SPACE            |   |   |
|                                                                                                              | SPACE     |             | /   |              |      |                  | 41 | C     | 42  | /                |    |                     |    | SPACE            |   |   |
| NT# 1. PROVIDE WISOLATED GROUND. 3. PROVIDE ISOLATED GROUND IN CIRCUIT. 2. PROVIDE HACR TYPE CIRCUIT BREAKER |           |             |     |              |      |                  |    |       |     |                  |    |                     |    |                  |   |   |
| PHS-A                                                                                                        |           | 38          | KVA | 319          | 32%  | FACTORED END-USE |    | 32.6  | KVA | 257              | A  |                     |    |                  |   |   |
| PHS-B                                                                                                        |           | 39          | KVA | 328          | 33%  | PASS THRU LOAD   |    | 0.0   | KVA | 0                | A  |                     |    |                  |   |   |
| PHS-C                                                                                                        |           | 40          | KVA | 336          | 34%  | SPARE            |    | 10%   | 9.3 | KVA              | 26 | A                   |    |                  |   |   |
| SUM                                                                                                          |           | 118         | KVA | 327          | AMPS | GRAND TOTALS     |    | 101.8 |     | 283              | A  |                     |    |                  |   |   |

| PROJ: BAR-B-CUTIE MISSION, TX                                              |           |                      |              | PANEL: A |      | DATED: 10/11/19  |    | REVS: 00 |     | X               |                     |      |      |             |                     |   |  |
|----------------------------------------------------------------------------|-----------|----------------------|--------------|----------|------|------------------|----|----------|-----|-----------------|---------------------|------|------|-------------|---------------------|---|--|
| 208                                                                        | VOLT-LL   | 10                   | K-AIC RATING |          |      |                  |    |          |     | ENCLOSURE TYPE  | NEMA 1              |      |      |             |                     |   |  |
| 120                                                                        | VOLT-LN   | 3                    | PHASE        | 4        | W    |                  |    |          |     | BRANCH OCP TYPE | M/C BKRS            |      |      |             |                     |   |  |
| 225                                                                        | BUSS AMPS | MLO                  | MAIN OCP     |          |      |                  |    |          |     | GENERAL NOTES:  | SURFACE MTD, NOTE 2 |      |      |             |                     |   |  |
| R                                                                          | N         | DESCRIPTION          | LT           | WIVA     | AMP  | P                | #  | P        | #   | AMP             | P                   | WIVA | LT   | DESCRIPTION | N                   | R |  |
|                                                                            |           | LTG-100-115          | L            | 1284     | 20   | /                | 1  | A        | 2   | 20              | /                   | 1    | 1000 | L           | LTG-FRONT SIGN      |   |  |
|                                                                            |           | LTG CONTACTOR, LGF#1 | L            | 500      | 20   | /                | 3  | B        | 4   | 20              | /                   | 1    | 1000 | L           | LTG-SIDE SIGN       |   |  |
|                                                                            |           | LTG-101,102,106      | L            | 475      | 20   | /                | 5  | C        | 6   | 20              | /                   | 1    | 1000 | R           | REC-TV'S            |   |  |
|                                                                            |           | LTG-WVC              | L            | 120      | 20   | /                | 7  | A        | 8   | 20              | /                   | 1    | 800  | R           | REC-TV'S            |   |  |
|                                                                            |           | HOOD CONTROL         | M            | 500      | 20   | /                | 9  | B        | 10  | 20              | /                   | 1    | 1440 | A           | REC-NITRO OKR, #52  |   |  |
|                                                                            |           | LTG-HOOD             | L            | 220      | 20   | /                | 11 | C        | 12  | 20              | /                   | 1    | 1440 | A           | REC-NITRO OKR, #52  |   |  |
|                                                                            |           | REC-TBB              | R            | 500      | 20   | /                | 13 | A        | 14  | 20              | /                   | 1    | 1440 | A           | REC-NITRO OKR, #52  |   |  |
|                                                                            |           | MUA-1 CONTROL        | M            | 500      | 20   | /                | 15 | B        | 16  | 20              | /                   | 1    | 1440 | A           | REC-NITRO OKR, #52  |   |  |
|                                                                            |           | FIRE SUPPRESSION SYS | M            | 500      | 20   | /                | 17 | C        | 18  | 20              | /                   | 1    | 1728 | A           | REC-HEAT LAMPS, #66 |   |  |
|                                                                            |           | REC-102              | R            | 1080     | 20   | /                | 19 | A        | 20  | 20              | /                   | 1    | 200  | M           | SMOKE DETECTORS     |   |  |
|                                                                            |           | REC-101,102,106      | R            | 900      | 20   | /                | 21 | B        | 22  | 20              | /                   | 1    | 500  | M           | HW CTLS             |   |  |
|                                                                            |           | REC-100,103,106,107  | R            | 900      | 20   | /                | 23 | C        | 24  | 20              | /                   | 1    | 720  | R           | REC-RTUS, ROOF      |   |  |
|                                                                            |           | REC-113,114,115      | R            | 1080     | 20   | /                | 25 | A        | 26  | 20              | /                   | 1    | 480  | R           | REC-POS/PTR, #63    | 1 |  |
|                                                                            |           | REC-106,109,110,116  | R            | 720      | 20   | /                | 27 | B        | 28  | 20              | /                   | 1    | 480  | R           | REC-POS/PTR, #63    | 1 |  |
|                                                                            |           | HAND DRYER-111       | R            | 1800     | 20   | /                | 29 | C        | 30  | 20              | /                   | 1    | 480  | R           | REC-POS/PTR, #63    | 1 |  |
|                                                                            |           | HAND DRYER-109       | R            | 1800     | 20   | /                | 31 | A        | 32  | 20              | /                   | 1    | 480  | R           | REC-COMPUTER, #114  | 1 |  |
|                                                                            |           | ACF-1                | H            | 612      | 20   | /                | 33 | B        | 34  | 20              | /                   | 1    | 864  | A           | REC-BAG-N-BOX, #24  |   |  |
|                                                                            |           | TEF-1                | H            | 360      | 20   | /                | 35 | C        | 36  | 20              | /                   | 1    | 900  | R           | REC-107,108         |   |  |
|                                                                            |           | EF (SMOKER)          | H            | 1200     | 20   | /                | 37 | A        | 38  | 20              | /                   | 1    |      |             |                     |   |  |
|                                                                            |           | REC-R REFRIG, #56    | A            | 648      | 20   | /                | 39 | B        | 40  | 20              | /                   | 1    |      |             |                     |   |  |
|                                                                            |           | SPARE                |              |          | 20   | /                | 41 | C        | 42  | 20              | /                   | 1    |      |             |                     |   |  |
| NT# 1. PROVIDE ISOLATED GROUND IN CIRCUIT.<br>2. PROVIDE WISOLATED GROUND. |           |                      |              |          |      |                  |    |          |     |                 |                     |      |      |             |                     |   |  |
| PHS-A                                                                      |           | 11                   | KVA          | 96       | 36%  | FACTORED END-USE |    | 28.0     | KVA | 78              | A                   |      |      |             |                     |   |  |
| PHS-B                                                                      |           | 10                   | KVA          | 84       | 31%  | PASS THRU LOAD   |    | 0.0      | KVA | 0               | A                   |      |      |             |                     |   |  |
| PHS-C                                                                      |           | 11                   | KVA          | 88       | 33%  | SPARE            |    | 10%      | 2.8 | KVA             | 8                   | A    |      |             |                     |   |  |
| SUM                                                                        |           | 32                   | KVA          | 89       | AMPS | GRAND TOTALS     |    | 30.8     |     | 86              | A                   |      |      |             |                     |   |  |

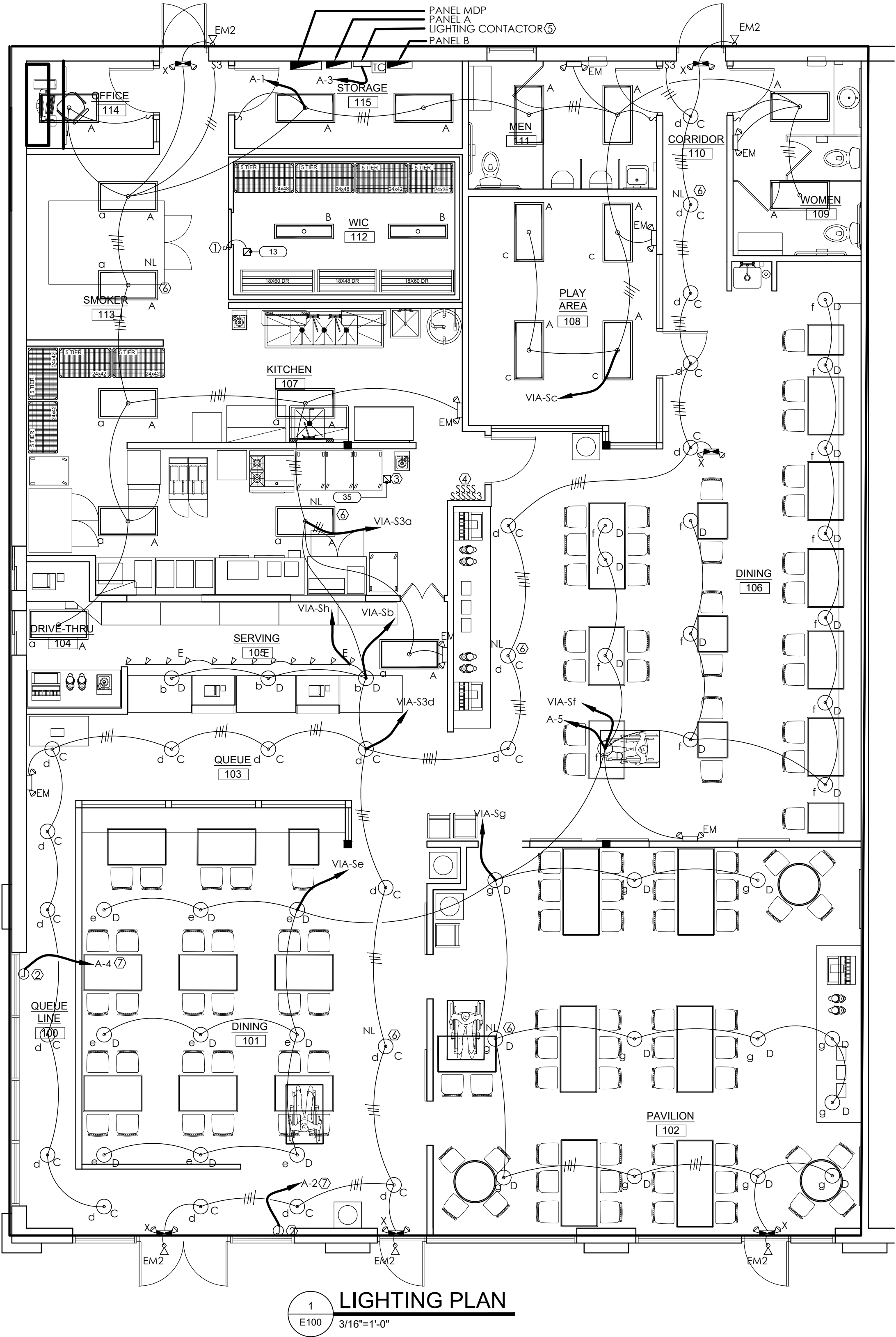
| PROJ: BAR-B-CUTIE MISSION, TX                                                                                               |           |                       |              | PANEL: B |      | DATED: 10/11/19  |    | REVS: 00        |             | X    |    |             |      |      |                        |     |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|--------------|----------|------|------------------|----|-----------------|-------------|------|----|-------------|------|------|------------------------|-----|--|--|
| 208                                                                                                                         | VOLT-LL   | 10                    | K-AIC RATING |          |      |                  |    | ENCLOSURE TYPE  | NEMA 1      |      |    |             |      |      |                        |     |  |  |
| 120                                                                                                                         | VOLT-LN   | 3                     | PHASE        | 4        | W    |                  |    | BRANCH OCP TYPE | M.C BKRS    |      |    |             |      |      |                        |     |  |  |
| 225                                                                                                                         | BUSS AMPS | MLO                   | MAIN OCP     |          |      |                  |    | GENERAL NOTES:  | SURFACE MTD |      |    |             |      |      |                        |     |  |  |
| R                                                                                                                           | N         | DESCRIPTION           | LT           | WIVA     | AMP  | P                | #  | AMP             | P           | WIVA | LT | DESCRIPTION | N    | R    |                        |     |  |  |
|                                                                                                                             |           | REC-DRINK DISP, #76   | A            | 960      | 20   | /                | 1  | A               | 2           | 20   | /  | 1           | 600  | A    | REC-WT FRZR, #33       | 2   |  |  |
|                                                                                                                             |           | REC-DRINK DISP, #76   | A            | 960      | 20   | /                | 3  | B               | 4           | -    | /  | -           |      |      | SHUNT TRIP FOR CKT#2   |     |  |  |
|                                                                                                                             |           | REC-DRINK DISP, #76   | A            | 960      | 20   | /                | 5  | C               | 6           | 20   | /  | 1           | 1320 | A    | REC-ICE MACH, #21      | 1   |  |  |
|                                                                                                                             |           | REC-DRINK DISP, #76   | A            | 960      | 20   | /                | 7  | A               | 8           | 15   | /  | -           | 528  | H    | MUA-1, #35             |     |  |  |
|                                                                                                                             |           | REC-TEA BRWR, #74     | A            | 1704     | 20   | /                | 9  | B               | 10          | -    | /  | -           | 528  | H    | ---                    |     |  |  |
|                                                                                                                             |           | REC-ICE MAKER, #65    | A            | 1320     | 20   | /                | 11 | C               | 12          | -    | /  | 3           | 528  | H    | ---                    |     |  |  |
| 1                                                                                                                           |           | REC-ICE MAKER, #65    | A            | 1320     | 20   | /                | 13 | A               | 14          | 20   | /  | -           | 1560 | C    | WVC CONDENSER, #13     | 1   |  |  |
| 1                                                                                                                           |           | REC-ICE MAKER, #65    | A            | 1320     | 20   | /                | 15 | B               | 16          | -    | /  | 2           | 1560 | C    | ---                    |     |  |  |
| 1                                                                                                                           |           | REC-ICE MAKER, #65    | A            | 1320     | 20   | /                | 17 | C               | 18          | 20   | /  | -           | 1498 | A    | REC-MICROWAVE, #54     |     |  |  |
|                                                                                                                             |           | KEF-1, #35            | H            | 456      | 15   | /                | 19 | A               | 20          | -    | /  | 2           | 1498 | A    | ---                    |     |  |  |
|                                                                                                                             |           | ---                   | H            | 456      | -    | /                | 21 | B               | 22          | 20   | /  | -           | 1300 | A    | REC-TOASTER, #48       |     |  |  |
|                                                                                                                             |           | ---                   | H            | 456      | -    | /                | 3  | 23              | C           | 24   | -  | /           | 2    | 1300 | A                      | --- |  |  |
|                                                                                                                             |           | SHUNT TRIP FOR CKT#27 |              |          | -    | /                | 25 | A               | 26          | 20   | /  | 1           | 1704 | A    | REC-TEA BRWR, #74      |     |  |  |
| 2                                                                                                                           |           | REC-RANGE, #40        | A            | 744      | 20   | /                | 27 | B               | 28          | 20   | /  | 1           | 1704 | A    | REC-TEA BRWR, #74      |     |  |  |
| 1                                                                                                                           |           | REC-OPEN MERCH, #64   | A            | 1320     | 20   | /                | 29 | C               | 30          | 20   | /  | 1           | 1704 | A    | REC-TEA BRWR, #74      |     |  |  |
|                                                                                                                             |           | REC-SAND/SLD, #46     | A            | 696      | 20   | /                | 31 | A               | 32          | 20   | /  | 1           | 216  | C    | WVC EVAP COIL, #13     | 1   |  |  |
| 1                                                                                                                           |           | REC-UC FRZR, #73      | A            | 240      | 20   | /                | 33 | B               | 34          | 20   | /  | 1           | 1920 | A    | REC-HEATED CAB, #42    | 2   |  |  |
| 1                                                                                                                           |           | REC-UC REFRIG, #81    | A            | 240      | 20   | /                | 35 | C               | 36          | -    | /  | -           | 1920 | A    | SHUNT TRIP FOR CKT #27 |     |  |  |
|                                                                                                                             |           | SPARE                 |              |          | 20   | /                | 37 | A               | 38          | 20   | /  | 1           | 1920 | A    | REC-HEATED CAB, #57    |     |  |  |
|                                                                                                                             |           | SPARE                 |              |          | 20   | /                | 39 | B               | 40          | 20   | /  | 1           | 1920 | A    | REC-HEATED CAB, #57    |     |  |  |
|                                                                                                                             |           | SPARE                 |              |          | 20   | /                | 41 | C               | 42          | 20   | /  | 1           | 1920 | A    | REC-HEATED CAB, #57    |     |  |  |
| NT# 1. PROVIDE HACR TYPE CIRCUIT BREAKER<br>2. PROVIDE CIRCUIT BREAKER W/SHUNT TRIP UPON FIRE SUPPRESSION SYSTEM ACTIVATION |           |                       |              |          |      |                  |    |                 |             |      |    |             |      |      |                        |     |  |  |
| PHS-A                                                                                                                       |           | 12                    | KVA          | 103      | 31%  | FACTORED END-USE |    | 29.5            | KVA         | 82   | A  |             |      |      |                        |     |  |  |
| PHS-B                                                                                                                       |           | 14                    | KVA          | 120      | 35%  | PASS THRU LOAD   |    | 0.0             | KVA         | 0    | A  |             |      |      |                        |     |  |  |
| PHS-C                                                                                                                       |           | 14                    | KVA          | 116      | 34%  | SPARE            |    | 10%             | 2.9         | KVA  | 8  | A           |      |      |                        |     |  |  |
| SUM                                                                                                                         |           | 41                    | KVA          | 113      | AMPS | GRAND TOTALS     |    | 32.4            |             | 90   | A  |             |      |      |                        |     |  |  |

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| EQUIPMENT      | CIRCUIT DESIGNATION | FEEDER               | DISCONNECT    | FLA/KW   | NOTES |
|----------------|---------------------|----------------------|---------------|----------|-------|
| RTU-1          | MDP-1,3,5           | 3#8, #10(G), 3/4"C.  | 60/3/3R/40A   | 27.4 MCA | 1,2   |
| RTU-2          | MDP-7,9,11          | 3#8, #10(G), 3/4"C.  | 60/3/3R/40A   | 27.4 MCA | 1,2   |
| RTU-3          | MDP-13,15,17        | 3#8, #10(G), 3/4"C.  | 60/3/3R/40A   | 27.4 MCA | 1,2   |
| RTU-4          | MDP-19,21,23        | 3#8, #10(G), 3/4"C.  | 60/3/3R/40A   | 27.4 MCA | 1,2   |
|                |                     |                      |               |          |       |
|                |                     |                      |               |          |       |
| KEF-1          | NOTE 4              | NOTE 4               | INCLUDED      | 1 HP     | 1,4   |
| MUA-1 FAN      | NOTE 4              | NOTE 4               | 30/3/3R/15A   | 1 1/2 HP | 1,4   |
| MUA-1 COND. #1 | MDP-14,16,18        | 3#12, #12(G), 3/4"C. | 30/3/3R/20A   | 11.2 MCA | 1,4   |
| MUA-1 COND. #2 | MDP-20,22,24        | 3#12, #12(G), 3/4"C. | 30/3/3R/20A   | 11.2 MCA | 1,4   |
|                |                     |                      |               |          |       |
| ACF-1          | A-33                | 2#12, #12(G), 3/4"C. | MOTOR STARTER | 5.1 FLA  | 1     |
| TEF-1          | A-35                | 2#12, #12(G), 3/4"C. | MOTOR STARTER | 4.4 FLA  | 1,3   |
|                |                     |                      |               |          |       |
|                |                     |                      |               |          |       |
|                |                     |                      |               |          |       |
|                |                     |                      |               |          |       |

- 1 PROVIDE RACEWAYS, WIRING, AND J-BOX FOR WIC COOLER UNITS. INSTALL COOLER LIGHTS AND CONNECT TO SWITCH. PROVIDE SEALS AS REQUIRED.
- 2 VERIFY THE EXACT LOCATION OF SIGN, AND MOUNT JUNCTION BOX ABOVE SOFFIT. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING SIGN WIRING REQUIREMENTS WITH THE SIGN SUPPLIER PRIOR TO SUBMITTING A BID FOR THE ELECTRICAL AND INSTALL IN COMPLIANCE WITH OWNER'S AND AHJ REQUIREMENTS.
- 3 CONNECT TO J-BOX ON HOOD FOR PRE-WIRED HOOD LIGHTS.
- 4 PROVIDE SWITCH SWITCHBANK, SEE DETAIL 2, THIS SHEET.
- 5 PROVIDE 20A, 6-POLE, LIGHTING CONTACTOR (LC#11) IN NEMA 1 ENCLOSURE AND CONTROLLED BY 20A, 24-HR, 7-DAY TIME CLOCK (TORK: DZM 200A) IN NEMA 1 ENCLOSURE.
- 6 CONNECT LIGHT FIXTURE AHEAD OF AREA/ROOM SWITCH FOR "NIGHT LIGHT".
- 7 ROUTE LIGHT FIXTURE CIRCUIT THROUGH LIGHTING CONTACTOR.

# SWITCH SWITCHBANK DETAIL



| MK  | MTG. | MANUFACTURER   | CATALOG No.                | LAMPS |          | REMARKS                           | WATTS |
|-----|------|----------------|----------------------------|-------|----------|-----------------------------------|-------|
|     |      |                |                            | No.   | TYPE     |                                   |       |
| A   | REC  | METALUX        | 24FR-LD4-40-UNV-L835-CD1-U | 1     | 36W LED  | 2X4 LED TROFFER W/ACRILIC LENS    | 36    |
| B   | SURF | —              | FURNISHED W/COOLER         | 1     | LED      | 4', LED VAPORPROOF                | 35    |
| C   | PEND | MILLENNIUM LTG | RDBLED24-GA                | 1     | 24W LED  | PENDANT LED, MT @ 7'-6" AFF       | 24    |
| D   | PEND | MILLENNIUM LTG | RLED24-GA                  | 1     | 24W LED  | PENDANT LED, MT @ 7'-6" AFF       | 24    |
| E   | SURF | JUNO LIGHTING  | R4-BL W/R38-BL W/T691BL    | 1     | 13W LED  | TRACK W/TRACK LIGHT               | 13    |
|     |      |                |                            |       |          |                                   |       |
| X   | WALL | EXIT           | VLED-U-BL-EL90-R           | 2     | 3.5W LED | COMBINATION EXIT/EMERGENCY LIGHT  | —     |
| EM  | WALL | EXIT           | LED90-BL                   | 2     | 3.5W LED | EMERGENCY LIGHT, MOUNT @ 108" AFF | —     |
| EM2 | WALL | EXIT           | 1RL1-WP-GR                 | 1     | 3.5W LED | REMOTE LED EMERGENCY EGRESS LIGHT | —     |

- ① FIXTURES IN KITCHEN AREA SHALL BE PROVIDED WITH GASKETED LENS OR SHATTERPROOF LAMPS.
- ② COORDINATE FIXTURE MOUNTING HEIGHT AND LOCATION REQUIREMENTS WITH ARCHITECTURAL DESIGN DRAWINGS/DETAILS/ELEVATIONS PRIOR TO ROUGH-IN.
- ③ COORDINATE THIS FIXTURE SELECTION AND MOUNTING HEIGHT WITH OWNER.

I. COORDINATE EXACT LOCATIONS OF EQUIPMENT, RECEPTACLES AND DEVICE CONNECTIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS, INCLUDING NOTES, PRIOR TO ROUGH-IN.

1. PROVIDE 2" CW PULLWIRE FROM TELEPHONE BACKBOARD TO BUILDING MAIN TELEPHONE SERVICE POINT. COORDINATE REQUIREMENTS W/ LANDLORD.
2. J-BOX FOR FIRE SUPPRESSION SYSTEM. PROVIDE FINAL CONNECTION FROM J-BOX TO SUPPRESSION SYSTEM. PROVIDE ALL CONDUIT AND WIRING FOR CONNECTION FROM FIRE SUPPRESSION SYSTEM TO PANEL C FEEDER BREAKER SHUNT TRIP IN PANEL MDP.
3. PROVIDE 2"-0X2'-0X3/4" PLYWOOD BACKBOARD (TBB) AND PAINT W/ FIRE RETARDANT PAINT. COORDINATE PAINT COLOR WITH WALL. PROVIDE #6 GND AND CONNECT FROM TELEPHONE GROUND AND MAIN SERVICE GROUND. MOUNT BOTTOM OF BOARD AT 60" AFF.
4. PROVIDE CONNECTION TO WIC MOUNTED, PREWIRED COOLER J-BOX FOR EVAPORATIVE COIL. PROVIDE CONDUIT SEALS AS REQUIRED.
5. HOOD CONTROL KEYPAD MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MFR. PROVIDE POWER AND INTERLOCK CONTROL WIRING FOR HOOD CONTROL AND HOOD FIRE SUPPRESSION SYSTEM. SEE HOOD FAN CONTROL INTERLOCK WIRING DIAGRAMS ON CAPTIVE-AIRE DRAWINGS.
6. PROVIDE TV OUTLET AND RECEPTACLE AND MOUNT TO EXISTING STRUCTURE ABOVE. COORDINATE LOCATION OF OUTLETS AND RECEPTACLES WITH OWNER.
7. PROVIDE TV OUTLET AND RECEPTACLE AND COORDINATE LOCATION OF OUTLET AND RECEPTACLE WITH OWNER.
8. MOUNT RECEPTACLE ABOVE METAL ROOF FOR SIGN AND COORDINATE LOCATION OF RECEPTACLE WITH OWNER.
9. PROVIDE 120V, SAFETY RECEPTACLE (TAMPER-RESISTANT: HUBBELL: HBLSG-63-H1).
10. PROVIDE J-BOX FOR WATER HEATER CONTROLS. PROVIDE FINAL CONNECTION FROM J-BOX TO WATER HEATER.
11. PROVIDE RECEPTACLE FOR SMOKER EF AND VERIFY MOUNTING HEIGHT AND LOCATION.

[illegible]

NOTE 1. PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR THE POWER AND CONTROL INCLUDING CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM, AS SHOWN ON THE CAPTIVE-AIRE DWGS.

NOTE 2. PROVIDE 'IG' TYPE RECEPTACLE.

NOTE 3. PROVIDE ALL CONDUIT AND WIRING REQUIRED TO CONNECT HOOD KEF-1 AND MUA-1 TOGETHER FROM HOOD ELECTRICAL CONTROL PANEL, AS SHOWN ON CAPTIVE-AIRE DWGS.

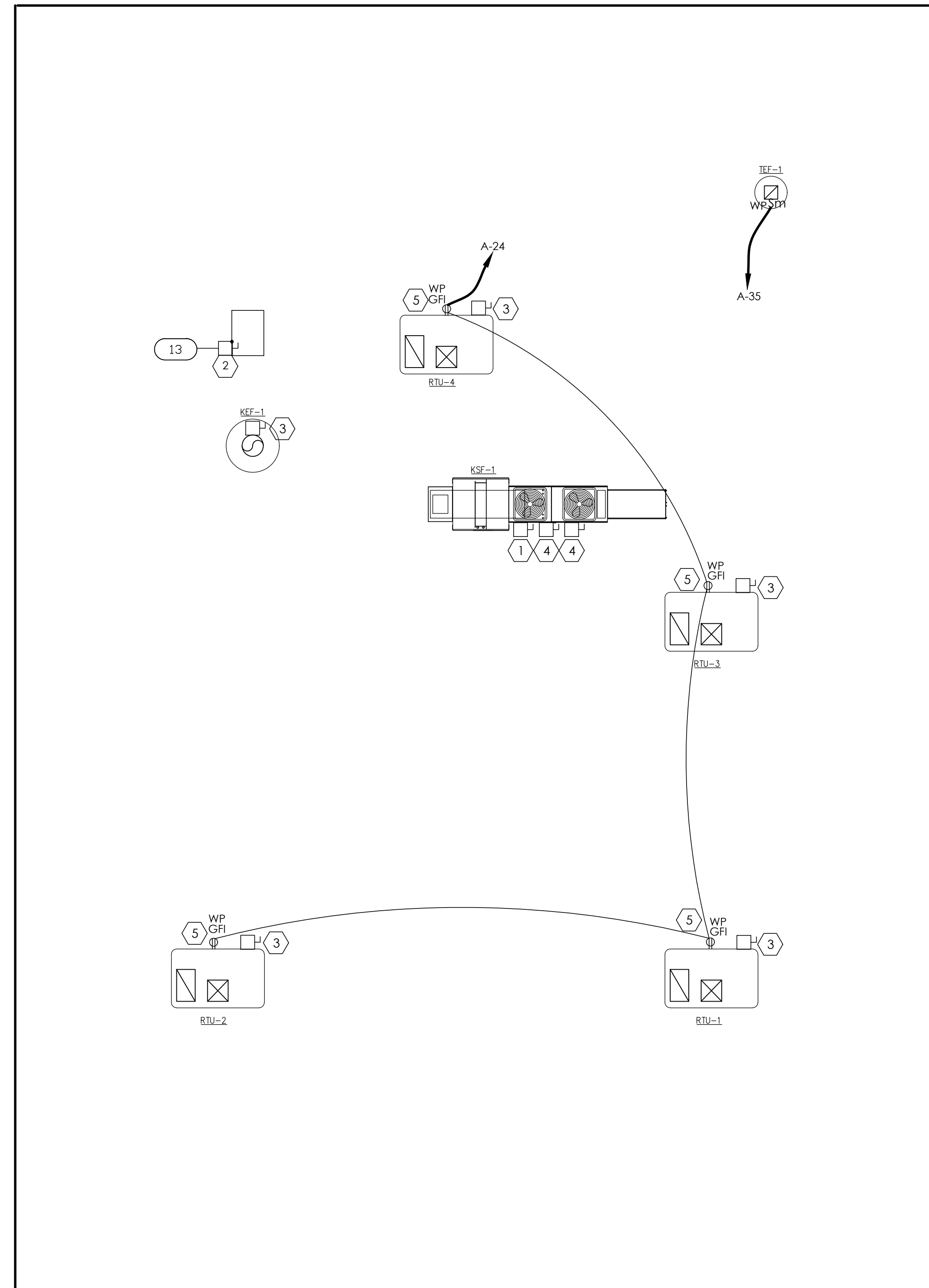
NOTE 4. PROVIDE CORD AND PLUG AS NOTED IN GENERAL NOTE C.

NOTE 5. SEE DWG. E100.

# E101

E102

- 1 PROVIDE 3P, 30A, NEMA 3R, FUSED DISC. ON MUA FOR FAN. MAKE FINAL CONNECTION FROM MUA TO SWITCH. SEE MECH. EQUIPMENT SCHEDULE, E002.
- 2 PROVIDE 2P, 30A, NEMA 3R, FUSED DISC. ON WALK-IN COND. UNIT LOCATED ON ROOF. FUSE PER EQUIPMENT NAMEPLATE. PROVIDE LIQUID TIGHT FLEX CONNECTION.
- 3 PROVIDE DISCONNECT SWITCH AND MOUNT TO UNIT. MAKE FINAL CONNECTION FROM SWITCH TO UNIT. SEE MECH. EQUIPMENT SCHEDULE, E002.
- 4 PROVIDE 3P, 30A, NEMA 3R, FUSED DISC. ON MUA FOR CONDENSER. MAKE FINAL CONNECTION FROM MUA TO SWITCH. SEE MECH. EQUIPMENT SCHEDULE, E002.
- 5 MOUNT TO BASE OF UNIT.



1 ELECTRICAL ROOF PLAN  
E102 3/16"=1'-0"

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1 FLOOR PLAN  
A100 1/4" = 1'-0"

PARTITION TYPE: D  
 INTERIOR PARTITION, NON-BEARING  
 SCALE: 1" = 1'-0"

(T) INDICATES TEMPERED GLAZING

**HARDWARE SET 3**  
 1 1/2 PR BUTT HINGES  
 1 EA. OFFICE LOCKSET  
 1 EA. SILENCER PADS  
 1 EA. WALL STOP

# A100

# A100

# A101

| ROOM FINISH SCHEDULE:   |                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------|
| MATERIAL                | DESCRIPTION                                                                                                            |
| CERAMIC TILE            |                                                                                                                        |
| QUARRY TILE             | QUARRY TILE LOCATIONS - DAL TILE 5'X6" DIABLO RED QUARRY TILE BASE                                                     |
| STAINED CONCRETE        | H & C SEMI TRANSPARENT CONCRETE STAIN. COLOR TO BE SELECTED.                                                           |
| WOOD BASE               | STAINED PINE; COLOR TBD BY OWNER                                                                                       |
| FRP                     | MARLITE STANDARD FRP, WHITE WITH MATCHING MOLDINGS, PUC P-ICC CLASS C                                                  |
| STAINLESS STEEL PANEL   | STAINLESS STEEL MANUFACTURING AND CUSTOM WALL PANELS-22 GA                                                             |
| WALL TILE               |                                                                                                                        |
| T-III SIDING            | PLYTANIUM- PLYWOOD SIDING PANEL T-II 8"OC- STAIN 4                                                                     |
| CEDAR LAP SIDING        |                                                                                                                        |
| GALV STEEL PANEL        |                                                                                                                        |
| PAINT                   | SHERWIN WILLIAMS-EGGSHELL FINISH ON WALLS, SATIN FINISH ON HOLLOW METAL DOORS AND FRAMES. COLORS TO BE SELECTED OWNER. |
| ACT 1 (WASHABLE LAY-IN) | WHITE COLOR. EXPOSED TEE-COLOR TO MATCH GRID.                                                                          |
| ACT 2 (WASHABLE LAY-IN) | WHITE COLOR. EXPOSED TEE-COLOR TO MATCH GRID.                                                                          |
| EXPOSED STRUCTURE       | SHERWIN WILLIAMS- BLACK PAINT.                                                                                         |
| CORRUGATED METAL SIDING | CMF- SINEWAVE 2.67" X 1/2" CORRUGATED METAL SIDING. CRCG STEEL 22GA FINISH-BASE                                        |
| MASONRY 1               | BRICK VENEER                                                                                                           |
| MASONRY 2               | STONE VENEER                                                                                                           |



- 3: ALL MAIN AND CROSS TEES, THEIR SPLICES AND INTERSECTING CONNECTIONS SHALL BE ADEQUATE TO RESIST 72 lb.. IN TENSION.



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A102

 TRACK LIGHTING

ROUND SUPPLY DIFFUSER

| EQUIPMENT SCHEDULE: |                                                                        |      |                   |              |        |                                                                           |
|---------------------|------------------------------------------------------------------------|------|-------------------|--------------|--------|---------------------------------------------------------------------------|
| ITEM                | DESCRIPTION<br>MANUFACTURER                                            | QTY. | MODEL #           | ELECTRICAL   |        | REMARKS                                                                   |
|                     |                                                                        |      |                   | VOLTS        | AMPS.  |                                                                           |
| 1                   | WALK-IN COOLER <ALTERNATE>                                             |      |                   |              |        |                                                                           |
| 2                   | BEVERAGE                                                               | -    | -                 | -            | -      | BULK CO2 TANK BY OTHERS.                                                  |
| 3                   | SMOKERS- PIT ROOM <ALTERNATE>                                          | -    | -                 | -            | -      | VERIFY WITH SOUTHERN PRIDE- CHARLES/<br>RONNIE MCFARLAND/ BRETT MCFARLAND |
| 12                  | WALK-IN COOLER <ALTERNATE>                                             |      | -                 | -            | -      |                                                                           |
| 13                  | WALK-IN COOLER 10X16 (1 REQ'D)<br>AMERIKOOOLER                         | 1    | 19-10107          | 208-230/60/1 | MCA 15 |                                                                           |
| 14                  | WIRE SHELVING<br>ADVANCED TABCO                                        | 1    | EG-2160-X         | -            | -      | 1(H) X 60 (W) X 21 (D)                                                    |
| 15                  | DUNNAGE RACK (1 REQ'D)<br>ADVANCED TABCO                               | 1    | DUN-2460-8-1X     | -            | -      | 8(H) X 60 (W) X 24 (D)                                                    |
| 17                  | DUNNAGE RACK (2 REQ'D)<br>ADVANCED TABCO                               | 1    | DUN-2436-8-1X     | -            | -      | 8(H) X 36 (W) X 24 (D)                                                    |
| 18                  | DUNNAGE RACK (1 REQ'D)<br>ADVANCED TABCO                               | 1    | DUN-2448-8-1X     | -            | -      | 8(H) X 48 (W) X 24 (D)                                                    |
| 19                  | PAN RACK, BUN - WIC (3 REQ'D)<br>ADVANCED TABCO                        | 1    | PRO30-2W-X        | -            | -      | 69.25(H) X 20.25(W) X 26(D)                                               |
| 20                  | PREP KITCHEN - PK <ALTERNATE>                                          | 1    | -                 | -            | -      |                                                                           |
| 21                  | ICE MACHINE, NUGGET COMPRESSED (1 REQ'D)<br>FOLLETT LLC                | 1    | MCD425AHT         | -            | -      | 21.25(H) X 22.7(W) X 22.25(D)                                             |
| 22                  | ONE (1) COMPARTMENT SINK (1 REQ'D)<br>ADVANCED TABCO                   | 1    | FC-1-1818-24L-X   | -            | -      |                                                                           |
| 23                  | WORK TABLE, STAINLESS STEEL TOP (1 REQ'D)<br>ADVANCED TABCO            | 1    | KLAG-304-X        | -            | -      | 40.5(H) X 48(W) X 30(D)                                                   |
| 24                  | BAG IN BOX STAND<br>BY OTHERS                                          | 1    | -                 | -            | -      |                                                                           |
| 25                  | WIRE SHELVING<br>ADVANCE TABCO                                         | 20   | EC-2442-X         | -            | -      | 1(H) X 42(W) X 24(D)                                                      |
| 26                  | HAND SINK                                                              | 1    | 7-PS-23-EC-SP-1X  | -            | -      | 13(H) X 12(W) X 16(D)                                                     |
| 27                  | THREE COMPARTMENT SINK                                                 | 1    | FC-3-1620-24RL-X  | -            | -      | 42(H) X 96(W) X 26(D)                                                     |
| 28                  | PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET<br>T & S BRASS           | 1    | B-0154-CR-C       | -            | -      |                                                                           |
| 29                  | MOP SINK<br>ADVANCE TABCO                                              | 1    | 9-OP-44           | -            | -      | 16(H) X 29(W) X 29(D)                                                     |
| 30                  | MOP BROOM HOLDER                                                       | 1    | 4073500           | -            | -      | 17 INCHES WIDE                                                            |
| 31                  | WATER HEATER (1 REQ'D)                                                 | 1    | -                 | -            | -      |                                                                           |
| 32                  | COOK LINE <ALTERNATE>                                                  | -    | -                 | -            | -      |                                                                           |
| 33                  | WORK TOP FREEZER (1 REQ'D)                                             | 1    | TWT-27F-HC        | 115          | 5.0    | 33.38(H) X 27.63(W) X 30.13(D)                                            |
| 34                  | TRUE- HINGING                                                          | -    | -                 | -            | -      |                                                                           |
| 35                  | EXHAUST HOOD (1 REQ'D)<br>CAPTIVE AIRE                                 | 1    | 3827643           | -            | -      | 12'-0" LONG EXHAUST-ONLY WALL CANOPY HOOD                                 |
| 36                  | FRYER 15.125"<br>PITCO FRIALATOR                                       | 2    | MODEL 35C+S       | -            | -      | 13.5 X 6.5 X 5.5                                                          |
| 37                  | SAFETY SYSTEM MOVABLE GAS CONNECTOR (2 REQ'D)<br>DORMONT MANUFACTURING | 2    | 1675KITS48        | -            | -      |                                                                           |
| 38                  | WHEEL PLACEMENT <OPTIONAL><br>DORMONT MANUFACTURING                    | 2    | -                 | -            | -      |                                                                           |
| 39                  | WORK TABLE (1 REQ'D)<br>ADVANCE TABCO                                  | 1    | MODEL 3018-X      | -            | -      | 37(H) X 18(W) X 30(D)                                                     |
| 40                  | RANGE, 36", 2 BURNERS, 24" GRIDDLE (1 REQ'D)                           | 1    | 4361A-2TR         | 115          | 6.2    | 59.5(H) X 36.5(W) X 43.6(D)                                               |
| 41                  | SAFETY SYSTEM MOVABLE GAS CONNECTOR (1 REQ'D)<br>DORMONT MANUFACTURING | 1    | 1675KIT36         | -            | -      |                                                                           |
| 42                  | HEATED CABINET, MOBILE (3 REQ'D)                                       | 3    | 1000-UP           | 120          | 16     | 75.81(H) X 23.94(W) X 32.69(D)                                            |
| 43                  | HAND SINK (1 REQ'D)<br>ADVANCE TABCO                                   | 1    | 7-PS-23-EC-SP-1X  | -            | -      | 13(H) X 12(W) X 16(D)                                                     |
| 44                  | FRONT LINE <ALTERNATE>                                                 | -    | -                 | -            | -      |                                                                           |
| 45                  | BREAD RACK<br>BREAD RACK BY BREAD VENDOR                               | -    | -                 | -            | -      |                                                                           |
| 46                  | SANDWICH/SALAD PREPARATION REFRIGERATOR (1 REQ'D)                      | 1    | TSSU-48-08-ADA-HC | 115          | 5.8    | 36.75(H) X 48.38(W) X 30.13(D)                                            |
| 47                  | OPTION- REV. TOP                                                       | -    | -                 | -            | -      |                                                                           |
| 48                  | TOASTER, CONTACT GRILL, CONVEYOR TYPE (1 REQ'D)                        | 1    | VCT-1000          | -            | -      | 23.25(H) X 21.25(W) X 15.25(D)                                            |
| 49                  | WORK TABLE, STAINLESS STEEL TOP (1 REQ'D)<br>ADVANCE TABCO             | 1    | KMS-306           | -            | -      | 40.5(H) X 72(W) X 30(D)                                                   |
| 50                  | PRICE COMPUTING SCALE (2 REQ'D)                                        | 1    | GS30              |              | .1     | 9(H) X 19(W) X 17(D)                                                      |
| 51                  | WORK TABLE, STAINLESS STEEL TOP (1REQ'D)<br>ADVANCE TABCO              | 1    | KMS-304           | -            | -      | 40.5(H) X 48(W) X 30(D)                                                   |

| ITEM | DESCRIPTION<br>MANUFACTURER                                         | QTY. | MODEL #          | ELECTRICAL      |       | REMARKS                                              |
|------|---------------------------------------------------------------------|------|------------------|-----------------|-------|------------------------------------------------------|
|      |                                                                     |      |                  | VOLTS           | AMPS  |                                                      |
| 52   | NITRO COOKER (4 REQ'D)<br>VOLLRATH                                  | 4    | 72090            | 120             | 12    |                                                      |
| 53   | WORK TABLE, STAINLESS TOP (1 REQ'D)<br>ADVANCE TABCO                | 1    | MODEL KMS-304    | -               | -     | 40.5(H)X48(W)X30(D)                                  |
| 54   | MICROWAVE OVEN<br>MENUMASTER                                        | 1    | MODEL MD182      | 1 PHASE 208/240 | 14.4  | 13.5(H)X16.5(W)X21.6(D)                              |
| 55   | SHELVING, WALL MOUNTED (1 REQ'D)<br>ADVANCE TABCO                   | 1    | WS-12-24-X       | -               | -     | 10.5(H)X24(W)X12(D)                                  |
| 56   | REACH-IN REFRIGERATOR (1 REQ'D)<br>TRUE FOOD EQUIPMENT              | 1    | T-49-HC          | 1PHASE 115      | 5.4   | 78.38(H)X54.13(W)X29.5(D)                            |
| 57   | HEATED CABINET, MOBILE (1 REQ'D)<br>ALTO-SHAAM                      | -    | MODEL 1000-UP    | 1PHASE 120      | 16    | 75.81(H)X23.94(W)X32.69(D)                           |
| 58   | DOOR HINGING<br>ALTO-SHAAM                                          | 4    | -                | -               | -     | RIGHT HINGED.                                        |
| 59   | BUN/SHEET PAN (36 REQ'D)<br>ADVANCE TABCO                           | 12   | MODEL 18-A-26-1X | -               | -     | 1(H)X26(W)X18(D)<br>MUST PURCHASE IN MULTIPLES OF 12 |
| 60   | SERVER AREA <ALTERNATE>                                             | -    | -                | -               | -     | -                                                    |
| 61   | SERVER AREA COUNTERS BY OTHERS                                      | -    | -                | -               | -     | -                                                    |
| 62   | SERVER AREA COUNTRY BY OTHERS                                       | -    | -                | -               | -     | -                                                    |
| 63   | POS SYSTEMS BY OTHERS                                               | -    | -                | -               | -     | -                                                    |
| 64   | OPEN MERCHANDISER (1 REQ'D)<br>TURBO AIR                            | 1    | MODEL TOM-50LB   | -               | -     | 45.75(H)X50.75(W)X34.63(D)                           |
| 65   | WORK TABLE, STAINLESS STEEL TOP (5 REQ'D)<br>ADVANCE TABCO          | 1    | MODEL SLAG-184-X | -               | -     | 35.5(H)X48(W)X18(D)                                  |
| 66   | HEAT LAMP (1 REQ'D)<br>HATCO                                        | 1    | GRAH-72-120-T-QS | 120             | 14.38 | 2.5(H)X72(W)X6(D)                                    |
| 67   | PASS-THRU SHELF (2 REQ'D)<br>ADVANCE TABCO                          | 2    | MODEL PA-18-108  | -               | -     | 1.5(H)X108(W)X18(D)                                  |
| 68   | SHELF MODIFICATION (2 REQ'D)<br>ADVANCE TABCO                       | 2    | MODEL TA-22A     | -               | -     | -                                                    |
| 69   | TICKET HOLDER (4 REQ'D)<br>ADVANCE TABCO                            | 4    | MODEL CM-48-X    | -               | -     | 3(H)X48(W)X1(D)                                      |
| 70   | DRIVE THROUGH AREA <ALTERNATE>                                      | 1    | -                | -               | -     | -                                                    |
| 71   | HAND SINK (1 REQ'D)<br>ADVANCE TABCO                                | 1    | 7-PS-23-EC-SP-1X | -               | -     | 13(H)X12(W)X18(D)                                    |
| 72   | TEA EQUIPMENT                                                       | 1    | -                | -               | -     | -                                                    |
| 73   | UNDER COUNTER REFRIGERATOR (1 REQ'D)<br>TRUE FOOD SERVICE EQUIPMENT | 1    | MODEL TUC-24-HC  | 115             | 2     | 31.63(H)X24(W)X24.75(D)                              |
| 74   | BUNN-O-MATIC<br>TEA BREWER <OPTIONAL>                               | 2    | MODEL ITB-0000   | 1PHASE 120      | 14    | 34(H)X11.6(W)X22(D)                                  |
| 75   | TEA DISPENSER <OPTIONAL> (2 REQ'D)<br>BUNN-O-MATIC                  | 2    | MODEL TDO-5-0001 | -               | -     | 22(H)X10.7(W)X13.7(D)                                |
| 76   | BEVERAGE<br>PROVIDED BY COCA COLA                                   | -    | -                | -               | -     | -                                                    |
| 77   | BEVERAGE                                                            | -    | -                | -               | -     | -                                                    |
| 78   | BEVERAGE                                                            | -    | -                | -               | -     | -                                                    |
| 79   | DRIVE THRU WINDOW                                                   | -    | -                | -               | -     | DRIVE THROUGH WINDOW BY OTHERS.                      |
| 80   | OWNER PROVIDED P.O.S SYSTEM                                         | -    | -                | -               | -     | OWNER PROVIDED.                                      |
| 81   | UNDER COUNTER REFRIGERATOR (1 REQ'D)<br>TRUE FOOD SERVICE EQUIPMENT | 1    | MODEL TUC-24-HC  | 115             | 2     | 31.63(H)X24(W)X24.75(D)                              |
| 82   | QUEUE AREA <ALTERNATE>                                              | -    | -                | -               | -     | -                                                    |
| 83   | ICE BIN / ICE CADDY, MOBILE (1 REQ'D)<br>ADVANCE TABCO              | 1    | MODEL SCI-MIC-36 | -               | -     | 29(H)X36(W)X18.75(D)                                 |
| 84   | DINNING ROOM <ALTERNATE>                                            | -    | -                | -               | -     | -                                                    |
| 85   | ICE MACHINE, NUGGET COMPRESSED (3 REQ'D)<br>FOLLETT LLC             | 3    | MCD425AHT        | 115             | 11    | 21.5(H)X22.7(W)X22.25(D)                             |
| 86   | BEVERAGE<br>LANCER 4800 SENSATION EQUIPMENT                         | -    | -                | 115             | 11    | -                                                    |
| 87   | BEVERAGE (CARBONATOR)<br>COCA COLA                                  | -    | -                | -               | -     | -                                                    |
| 88   | TEA DISPENSER <OPTIONAL> (6 REQ'D)<br>BUNN-O-MATIC                  | -    | MODEL TDO-5-0001 | -               | -     | 22(H)X10.7(W)X13.7(D)                                |
| 89   | FURNITURE <ALTERNATE>                                               | -    | -                | -               | -     | -                                                    |
| 90   | CHAIR (107 REQ'D)<br>OAK STREET MODEL                               | -    | MODEL SL35C      | -               | -     | 34.75(H)X16(W)X16(D)                                 |
| 91   | METAL TABLE BASE (46 REQ'D)<br>OAK STREET MODEL                     | -    | MODEL B522-ADA   | -               | -     | 22(W)X5(D)                                           |
| 92   | METAL TABLE BASE<br>OAK STREET MODEL                                | -    | MODEL B522-ADA   | -               | -     | 22(W)X5(D)                                           |

1 EQUIPMENT SCHEDULE

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.  
ARCHITECT

423 FISCHER TRAIL  
ELLIJAY, GEORGIA 30540

SEAL:



**M R P**  
**DESIGN GROUP**  
3450 Acworth Due West Road  
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[illegible]

PROJECT DESCRIPTION:

PROJECT DESCRIPTION

PROJECT TITLE:

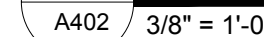
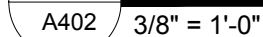
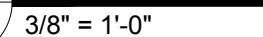
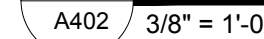
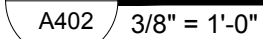
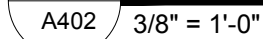
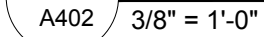
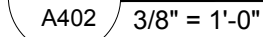
**BAR-B-CUTIE  
SMOKEHOUSE  
2211 EAST GRIFFIN  
SUITE 100 & 110  
MISSION, TX 78572**

EQUIPMENT  
SCHEDULE

PROJECT NO: 19044

# A104

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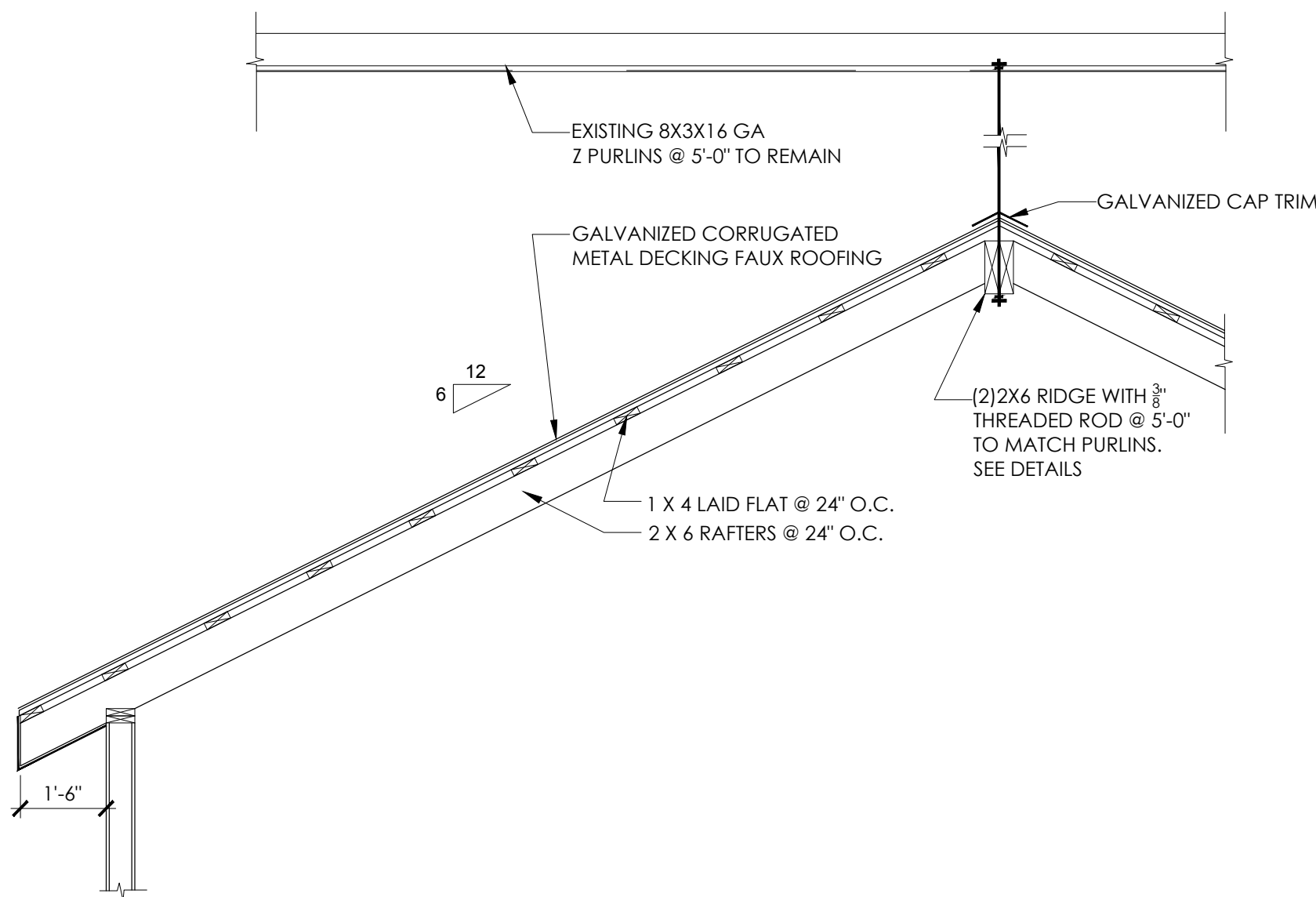
A402



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**BAR-B-CUTIE  
SMOKEHOUSE  
2211 EAST GRIFFIN  
SUITE 100 & 110  
MISSION, TX 78572**

A404



1 FUAX ROOF SECTION DETAIL  
A404  $\frac{3}{8}" = 1'-0"$

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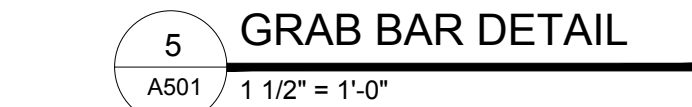
A405



A405  $1/4" = 1'-0"$

A405  $1/4" = 1'-0"$

|         |                                                                                                                                         |         |                                                                                                            |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------|
| NOTE A: | TOLLET PAPER DISPENSERS MOUNTED 19" MIN. TO CENTER LINE ABOVE THE F.L.R.                                                                | NOTE #1 | ALL DIMENSIONS ARE APPLICABLE TO BOTH RESTROOMS UNLESS OTHERWISE NOTED                                     |
| NOTE B: | C.O. TO HOLD VERTICAL ALL SIZES & DIMENSIONS                                                                                            | NOTE #2 | ALL PLUMBING FIXTURES TO BE SELECTED IN COMPLIANCE W/ HANDICAP CODE AS                                     |
| NOTE C: | C.O. PROVIDE BLOCKING FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES                                                                     | NOTE #3 | HARDWARE AND ACCESSORIES FOR HANDICAP ACCESSIBLE SHALL NOT BE MOUNTED HIGHER THAN 48" ABOVE FINISHED FLOOR |
| NOTE D: | "LAV GUARD" MODEL # 102 BY "TRUBRO" OR EQUAL TO BE USED AS PROTECTION/INSULATION FOR EXPOSED PIPING                                     | NOTE #4 | MINIMUM CLEARANCE FOR WHEELCHAIR TURN-AROUND SHALL NOT BE LESS THAN 60" DIAMETER                           |
| NOTE E: | WALLS TO BE MOUNTED 32" A.F.F. (MIN.) TO RIM WITH KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT (32" CLEAR UNDER FRONT EDGE/DEPTH) |         |                                                                                                            |
| NOTE F: | TOP OF W.C. SEAT SHALL BE 17" TO 19" A.F.F.                                                                                             |         |                                                                                                            |
| NOTE G: | GRAB BARS TO BE 1 1/2" FROM THE WALL                                                                                                    |         |                                                                                                            |
| NOTE H: | BOTTOM OF MIRROR TO BE 40" MAX. ABOVE THE FINISHED FLOOR                                                                                |         |                                                                                                            |













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# LS 100

|                                        |               |
|----------------------------------------|---------------|
| CONVENIENCE STORE (4,463 SF / 15) = 17 |               |
| TOTAL LOAD                             | = 171 PERSONS |

|                                        |               |
|----------------------------------------|---------------|
| CONVENIENCE STORE (4,463 SF / 15) = 17 |               |
| TOTAL LOAD                             | = 171 PERSONS |

TRAVEL DISTANCE FROM  
POINT "A" TO NEAREST  
EXIT = 84'-10"

WORST CASE, THIS DOOR MAY ACCOMMODATE 50% OF THE PUBLIC. .50 X 171  
X .2 INCHES =17.1 REQUIRED  
72 " DOOR WIDTH PROVIDED. EQUIPPED WITH PANIC HARDWARE AND  
SUPPORTS AN OCCUPANT LOAD OF 171.

## LIFE SAFETY

 $1/4" = 1'-0"$ 

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|                                                                                   |                                           |                               |
|-----------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|
| ①                                                                                 | THERMOSTAT                                |                               |
| ②                                                                                 | TEMPERATURE SENSOR                        |                               |
| ③                                                                                 | TIME CLOCK                                |                               |
| ④                                                                                 | SMOKE DETECTOR                            |                               |
| ⑤                                                                                 | SUPPLY AIR REGISTER                       |                               |
|  | RETURN AIR REGISTER & EXHAUST REGISTER    |                               |
|  | SIDEWALL SUPPLY AIR REGISTER              |                               |
|  | SIDEWALL RETURN AIR REGISTER              |                               |
|  | RISE IN DUCTWORK ELEVATION                |                               |
|  | DROP IN DUCTWORK ELEVATION                |                               |
|  | FIRE DAMPER                               |                               |
|  | SMOKE DAMPER                              |                               |
|  | COMBINATION FIRE/SMOKE DAMPER             |                               |
|  | MOTOR OPERATED DAMPER                     |                               |
|  | STATIC PRESSURE SENSOR IN DUCT            |                               |
|  | BALANCING DAMPER                          |                               |
|  | FLEXIBLE DUCTWORK                         |                               |
|  | FLEXIBLE CONNECTION                       |                               |
|  | LINEAR DIFFUSER                           |                               |
|  | GAS COCK                                  |                               |
|  | GAS                                       |                               |
|  | CONDENSATE DRAIN                          |                               |
|  | DIFFUSER TYPE<br>AIRFLOW CFM<br>NECK SIZE | SUPPLY AIR DIFFUSER           |
|  | DIFFUSER TYPE<br>AIRFLOW CFM<br>NECK SIZE | RETURN AIR<br>GRILLE/REGISTER |

SITE LOCATION:

MISSION, TX 78572  
29.53' LAT., 98.46' LONG.  
810 FEET ELEVATION  
ASHRAE 90.1-2009 CLIMATE ZONE 2A

DESIGN CONDITIONS:

27.4°F WINTER DESIGN DRY BULB (ASHRAE 99.6%)  
98.5°F DRY BULB AND 73.5°F MEAN COINCIDENT WET BULB SUMMER DESIGN  
(ASHRAE .4%)

70°F WINTER INDOOR DESIGN DRY BULB (HEATING)  
75°F DRY BULB AND 50% RH INDOOR DESIGN (COOLING)

CALCULATIONS BASED ON ASHRAE DESIGN CRITERIA AND CALCULATION METHODOLOGY.

| SHEET NUMBER | SHEET NAME                                  |   |
|--------------|---------------------------------------------|---|
| M001         | MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS | 1 |
| M002         | MECHANICAL SCHEDULES                        | 1 |
| M101         | FLOOR PLAN – MECHANICAL                     | 1 |
| M102         | ROOF PLAN – MECHANICAL                      | 1 |
| M301         | MECHANICAL DETAILS                          | 1 |
|              |                                             |   |
|              | TOTAL MECHANICAL SHEETS                     | 5 |

|      |                            |      |                                  |
|------|----------------------------|------|----------------------------------|
| AFF  | ABOVE FINISHED FLOOR       | HP   | HORSEPOWER                       |
| BD   | BALANCING DAMPER           | HT   | HEIGHT                           |
| BP   | BALANCE POINT              | IH   | INFRARED HEATER                  |
| CAP  | CAPACITY                   | KW   | KILOWATT                         |
| CD   | CEILING DIFFUSER           | L    | LENGTH                           |
| CENT | CENTRIFUGAL                | MAX  | MAXIMUM                          |
| CFH  | CUBIC FEET PER HOUR        | MBH  | THOUSAND BTUH                    |
| CFM  | CUBIC FEET PER MINUTE      | MIN  | MINIMUM                          |
| COND | CONDENSING                 | MOD  | MOTOR OPERATED DAMPER            |
| COP  | COEFFICIENT OF PERFORMANCE | OA   | OUTSIDE AIR                      |
| CU   | CONDENSING UNIT            | RA   | RETURN AIR                       |
| D    | DRAIN                      | RAR  | RETURN AIR REGISTER              |
| DB   | DRY BULB                   | RTU  | ROOFTOP UNIT                     |
| EAT  | ENTERING AIR TEMPERATURE   | SA   | SUPPLY AIR                       |
| EER  | ENERGY EFFICIENCY RATIO    | SAR  | SUPPLY AIR REGISTER              |
| EFF  | EFFICIENCY                 | SC   | SENSIBLE CAPACITY                |
| ESP  | EXTERNAL STATIC PRESSURE   | SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| EXH  | EXHAUST                    | SP   | STATIC PRESSURE                  |
| F    | FAHRENHEIT                 | SYS  | SYSTEM                           |
| F    | FAN                        | T    | THERMOSTAT                       |
| FCU  | FAN COIL UNIT              | TC   | TOTAL CAPACITY                   |
| FD   | FIRE DAMPER                | TEMP | TEMPERATURE                      |
| FT   | FEET                       | TYP  | TYPICAL                          |
| G    | GAS                        | UH   | UNIT HEATER                      |
| GFU  | GAS FIRED UNIT             | V    | VOLTS                            |
| H    | HOOD                       | W    | WIDTH                            |
| HC   | HEATING CAPACITY           | WB   | WET BULB                         |
| HP   | HEAT PUMP                  | WC   | WATER COLUMN                     |

1. TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE 5TH EDITION OF THE AABC NATIONAL STANDARDS, 1989 FOR TOTAL SYSTEM BALANCE, AND IN ACCORDANCE WITH THE SCOPE OF WORK DEFINED BY THE CONTRACT DOCUMENTS.
2. TESTING AND BALANCE AGENCY AS PART OF ITS CONTRACT SHALL ACT AS AN AUTHORIZED INSPECTION AGENCY, RESPONSIBLE TO THE OWNER, AND SHALL, DURING THE TEST AND BALANCE, LIST SYSTEMS THAT ARE INSTALLED INCORRECTLY, REQUIRE CORRECTION, OR HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS.
3. TESTING AND BALANCING SHALL NOT BEGIN UNTIL ALL SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER. THE MECHANICAL CONTRACTOR SHALL PUT ALL HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

1. DUCTWORK, EXCEPT WHERE OTHERWISE SPECIFIED HEREIN, AND APPARATUS CASINGS SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH SMACNA HVAC DUCT.

1. DUCT INSULATION SHALL BE 1" THICK, 1-1/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH TERMOSETTING RESIN AND VAPOR BARRIER, "K" VALUE NOT TO EXCEED 0.25.
2. INSULATION AND ADHESIVE SHALL HAVE A COMPOSITE FLAME SPREAD RATING 25 AND A COMPOSITE SMOKE-DEVELOPED RATING OF NOT MORE THAN 50.
3. INSULATION SHALL COMPLY WITH ASTM C553 AND BE PROVIDED WITH FACTORY-APPLIED FSK JACKET.
4. SECURE INSULATION WITH ADHESIVE AND STICK PINS.
5. PROVIDE INSULATION ON SUPPLY AIR DUCTWORK.

1. INSULATE THE SUCTION LINE WITH RIGID 1" POLYURETHANE FOAM.

1. DUCT LINER SHALL BE 1-1/2" THICK, 1-1/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH NEOPRENE FACING. MINIMUM INSTALLED R-VALUE = 5.
2. LINER, FACING, AND ADHESIVE SHALL HAVE A COMPOSITE FLAME SPREAD RATING OF 25 AND A COMPOSITE SMOKE-DEVELOPED RATING OF NOT MORE THAN 50.
3. LINER SHALL MEET EROSION TEST DESCRIBED IN UL 181-1981.

1. DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2005 EDITION.
2. PROVIDE SINGLE-BLADE DAMPER UP TO SIX (6) INCHES IN WIDTH. PROVIDE MULTIBLADE OPPOSED BLADE DAMPER ABOVE SIX (6) INCHES IN WIDTH.
3. DAMPER AND BEARINGS SHALL BE SIMILAR TO VENTLOCK NO. 609; DIAL REGULATOR SHALL BE SIMILAR TO VENTLOCK NO. 637, 638, AND 639 WITH COLLAR TO CLEAR INSULATION THICKNESS INSTALLED ON DUCTWORK.

1. ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE (1) YEAR WARRANTY FROM THE TIME OF FINAL ACCEPTANCE UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. [COORDINATE WITH THE ARCHITECT]; THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT.

1. FACTORY FABRICATED ROOF CURBS SHALL BE CONSTRUCTED OF ALUMINUM AND SHALL BE 14" HIGH. CURBS SHALL BE CANTED, INSULATED TYPE AND SHALL BE FIELD-FLASHED TO MAKE WATERTIGHT. FIELD FLASHING SHALL EXTEND UP THE SIDES OF THE CURB WITH WASHERS AND SHEET METAL SCREWS PLACED NOT MORE THAN 12" ON CENTERS BUT IN NO CASE USING LESS THAN TWO (2) SCREWS PER SIDE. CURB SHALL HAVE 2" THICK RIGID INSULATION; INSULATION EXPOSED TO THE RETURN AIR PLenum SHALL HAVE A SMOKE DEVELOPED RATING NOT LESS THAN 1.0. AS REQUIRED, INSULATION NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. WOOD NAILER STRIPS ARE REQUIRED. COORDINATE THE INSTALLATION OF THE ROOF CURBS WITH THE ROOF INSTALLER.

1. PACKAGED, AIR-COOLED, CONSTANT VOLUME DRAW-THROUGH TYPE, COMPLETE WITH HERMETIC COMPRESSORS, CYLINDER UNLOADERS, SUCTION AND DISCHARGE SERVICE VALVES, SPRING VIBRATION ISOLATORS, COMPRESSOR AMBIENT LOCKOUT CRANKCASE HEATERS, OIL SIGHT GLASS, REFRIGERANT SIGHT GLASS, REFRIGERANT DRIER, THERMOSTATIC EXPANSION VALVES, PRESSURE RELIEF VALVE, FUSE, THERMAL SAFETY SWITCH AND BETWEEN SUCCESSIVE STARTS OF EACH COMPRESSOR, SUCTION ACCUMULATOR, HOT-GAS DISCHARGE MUFFLER, MANUALLY RESET LOW OIL PRESSURE CUTOFF FOR EACH COMPRESSOR, LIQUID LINE VALVE FOR ISOLATING REFRIGERANT CHARGE IN CONDENSER, MOTOR OVERLOAD PROTECTOR AND WINDING THERMOSTATS, REFRIGERANT SOLENOID VALVES, AIR-COOLED CONDENSER COIL WITH GUARDS, CONDENSER FAN AND MOTOR, REFRIGERANT EVAPORATOR, MOTOR, EXTENDED FAN GREASE CONNECTIONS, FILTER SECTION, STAINLESS STEEL GAS-FIRED HEATING SECTION, AND HIGH AND LOW PRESSURE SAFETY CONTROLS..

- A. TESTED IN ACCORDANCE WITH ANSI/ASHRAE 51/AMCA 210-1999.
- B. SEATINGLY AND DYNAMICALLY BALANCED.
- C. BEARING FILLOW BLOCK OF FLANGE TYPE WITH L10 LIFE OF 40,000 HOURS AT THE PEAK OPERATING CONDITION. EXTEND GREASE LEADS TO CASING EXTERIOR TO ALLOW LUBRICATION DURING OPERATION.
- D. IN DRAW-THROUGH UNITS WITH CENTRIFUGAL FANS, FAN ROTATION AND FLOW DIRECTION IS THE SAME DIRECTION AS FLOW IN ELBOWS INSTALLED WITHIN 3 DUCT DIAMETERS OF THE FAN DISCHARGE, WHERE DISCHARGE FROM THE ELBOW IS PERPENDICULAR TO THE FAN SHAFT.
- E. CONDENSERS: SELECTED FOR A CONDENSING TEMPERATURE NOT EXCEEDING 120°F (50°C) AT 100% COILS SHALL HAVE COPPER TUBES AND ALUMINUM FINS.

1. FAN SHALL BE CEILING MOUNTED, DIRECT DRIVEN, CENTRIFUGAL EXHAUST FAN.
2. FAN SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL 705) AND UL LISTED FOR CANADA (CUL 705). FAN SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.
3. THE FAN WHEEL HOUSING AND INTEGRAL OUTLET DUCT SHALL BE INJECTION MOLDED FROM A SPECIALLY ENGINEERED RESIN EXCEEDING UL REQUIREMENTS FOR SMOKE AND HEAT GENERATION. THE OUTLET DUCT SHALL HAVE PROVISION FOR AN ALUMINUM BACKRAFT DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD. THE INLET BOX SHALL
4. BE MINIMUM 22 GAUGE GALVANIZED STEEL. MOTOR SHALL BE ISOLATION MOUNTED TO A ONE PIECE GALVANIZED STAMPED STEEL INTEGRAL MOTOR MOUNT/INLET. A FIELD WIRING COMPARTMENT WITH DISCONNECT RECEPTACLE SHALL BE STANDARD. TO ACCOMMODATE DIFFERENT CEILING THICKNESS, AN ADJUSTABLE PREPUNCHED MOUNTING BRACKET SHALL BE PROVIDED. A WHITE, HIGH IMPACT STYRENE INJECTION MOLDED GRILL SHALL BE PROVIDED AS STANDARD. UNIT SHALL BE DESIGNED WITH PROVISION FOR FIELD CONVERSION FROM CEILING TO IN-LINE. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.
5. WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, INJECTION MOLDED OF POLYPROPYLENE RESIN. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-05, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.
6. MOTOR SHALL BE OPEN DRIP PROOF TYPE WITH PERMANENTLY LUBRICATED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG. MOTOR SHALL BE FURNISHED AT THE SPECIFIED VOLTAGE.

1. THE SPLIT SYSTEMS SHALL PROVIDE THE MINIMUM CAPACITIES SCHEDULED, SHALL MEET ALL CONSTRAINTS OF CONSTRUCTION, AND SHALL COMPLY WITH ALL SECTIONS OF THESE SPECIFICATIONS. CONDENSING UNIT SHALL BE CERTIFIED WITH ARI STANDARDS 210-81 AND 270-82. AIR HANDLING UNITS SHALL BE UL LISTED.

2. INDOOR AIR CONDITIONING UNIT SHALL BE VERTICAL TYPE AS INDICATED. INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES AND MINIMUM CLEARANCE REQUIREMENTS TO COMBUSTIBLE MATERIALS.

3. CABINET SHALL BE CONSTRUCTED OF HEAVY GAUGE COLD ROLLED STEEL WITH A BAKE-ON ENAMEL FINISH. KNOCK-OUTS SHALL BE FURNISHED IN THE TOP AND BOTTOM PANELS FOR HANGER RODS. PROVIDE COMPLETE SERVICE ACCESS TO BLOWER COMPARTMENT.

4. UNIT SHALL BE EQUIPPED WITH QUIET DIRECT DRIVE BLOWER  
BLOWER SHALL BE STATICALLY AND DYNAMICALLY BALANCED.

5. FAN AND LIMIT CONTROLS SHALL BE FACTORY INSTALLED AND WIRED. FAN CONTROL SHALL ASSURE PROPER BLOWER OPERATION. CONTINUOUS BLOWER OPERATION MAY BE ACCOMPLISHED BY ADJUSTING THE FAN CONTROLS.
6. POWER SUPPLY AND THERMOSTAT WIRING CONNECTIONS SHALL BE MADE AT JUNCTION BOX LOCATED ON FRONT OF THE UNIT.

7. BLOWER COOLING RELAY SHALL BE FURNISHED AND FACTORY INSTALLED ON THE WIRING JUNCTION BOX. RELAY SHALL ACTIVATE BLOWER OPERATION DURING COOLING CYCLE.

8. A 24 VOLT CONTROL TRANSFORMER SHALL BE FURNISHED AND FACTORY INSTALLED ON THE WIRING JUNCTION BOX.

9. FILTER SHALL BE 1" THROWAWAY TYPE OF WOVEN FIBER.

10. PROVIDE MATCHING EVAPORATOR COIL COMPATIBLE WITH UNIT AIR FLOW AND CONDENSING UNIT. COIL SHALL BE COPPER TUBES WITH ALUMINUM FINNS AND SHALL HAVE INSULATED CASING, DRAIN PAN AND EXPANSION VALVE. COIL SHALL BE CERTIFIED FOR COMPLIANCE WITH THE PROVISIONS OF ARI STANDARD.

11. COMPRESSOR SHALL BE INTERNALLY SPRING MOUNTED, HAVE POSITIVE CRANKCASE LUBRICATION, CRANKCASE HEATER, DISCHARGE TEMPERATURE SENSING THERMOSTAT, HIGH AND LOW PRESSURE SWITCHES, MOTOR IN-WINDING TEMPERATURES SENSING THERMOSTATS, LOW AMBIENT SENSOR AND SOLID-STATE OVERLOAD PROTECTOR.

12. CONDENSER COIL SHALL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY FITTED TO COPPER. THE COIL SHALL BE FACTORY PRESSURE LEAK TESTED AT 450 PSI. COIL SHALL BE PROTECTED BY A STEEL GUARD.

13. THE SPLIT SYSTEM SHALL BE INSTALLED IN COMPLETE CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND THESE CONTRACT DOCUMENTS.

1. EACH ITEM OF EQUIPMENT SHALL BE PERMANENTLY LABELED WITH A NAMEPLATE OF SUFFICIENT SIZE TO CLEARLY INDICATE THE IDENTIFICATION DESIGNATION (I.E., EQUIPMENT NUMBER) APPEARING ON THE CONTRACT DOCUMENT. NAMEPLATES MAY BE 1/16" THICK BAKELITE LAMINATE (ENGRAVED WITH LETTERS THROUGH BLACK), OR ALUMINUM WITH BLACK ENAMELED SURFACE, WITH ENGRAVED LETTERS. HANDWRITTEN MARKER IDENTIFICATIONS ARE NOT ACCEPTABLE.

1. IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. THE INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED DUCTWORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY LOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS, SMALL WATER LINES ETC. UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS.

3. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.

4. ALL MECHANICAL WORK SHALL MEET ALL THE REQUIREMENTS OF, BUT NOT LIMITED TO THE INTERNATIONAL MECHANICAL CODE.

5. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INTERNAL INSULATION (WHERE USED) HAS NOT BEEN ACCOUNTED FOR.

6. DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.

7. ALL WALL MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT/OWNER OR THEIR REPRESENTATIVE IN THE FIELD.

8. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.

9. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES, SPEAKERS AND FIRE SPRINKLER HEADS (WHERE APPLICABLE).

10. CONTRACTOR SHALL VERIFY THAT THE LOCATION OF CEILING MOUNTED DIFFUSERS, GRILLES, AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCEPTABLE TO THE ARCHITECT PRIOR TO INSTALLATION.

11. ALL NEW DUCTWORK SHALL BE 1" W.G. CONSTRUCTION, CONSTRUCTED OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS, THIRD EDITION, 2005, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA)". VOLUME DAMPERS SHALL BE PROVIDED IN ALL BRANCH TAKE OFFS, SPIN-IN'S OR OTHER CONNECTIONS TO INDIVIDUAL AIR DISTRIBUTION DEVICES. ALL 90 DEGREE ELBOWS SHALL BE RADIUS, OR RECTANGULAR WITH TURNING VANES. DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE FROM THE BUILDING STRUCTURE WITH HANGER ASSEMBLIES IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. PROVIDE ADDITIONAL RISES, DROPS, AND OFFSETS IN DUCTWORK AS REQUIRED. ALL DUCTWORK SHALL BE SEALED USING IRON GIP (NO SUBSTITUTIONS) ALL DUCT REGARDLESS OF PRESSURE CLASS SHALL BE SEALED PER SMACNA CLASS "A."

12. NEW DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1-1/2" THICK FIBerglass FLEXIBLE BLOWER INSULATION (RATED FIRE=25, SMOKE=50) SECURED TO THE DUCTWORK WITH BENJAMIN FASTENK NO. 8520 ADHESIVE & PUSH PINS (12" CENTERS. INSULATION TO HAVE AN INSTALLED MINIMUM R-VALUE OF 6.0.

13. ALL FLEXIBLE DUCTWORK SHALL BEAR THE UL 181 LABEL (CLASS 1 AIR DUCT) AND SHALL BE FACTORY INSULATED 1-1/2 INCH, 0.8 LB., FIBERGLASS, FIRE=25, SMOKE=50) ATCO UPP #050 OR EQUIVALENT. FLEXIBLE DUCTWORK SHALL COMPLY WITH NFPA 900 AND NFPA 90B. ALL FLEXIBLE DUCTWORK CONNECTED TO DIFFUSERS SHALL NOT BE LESS THAN THE NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE ON DRAWINGS. MINIMUM FLEXIBLE DUCT BEND RADIUS OF CURVATURE SHALL BE 3 DUCT DIAMETERS, MAXIMUM LENGTH SHALL BE 6'-0", NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS WILL BE ACCEPTABLE. TAKE OFF FITTINGS TO BE EQUAL TO FLEXMASTER TYPE 8M-R6. USE 45° THROAT AT PLENUM TAKE OFF'S.

14. FLEXIBLE AND RIGID ROUND DUCT TAKE-OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 6'-0". INSULATE RIGID ROUND DUCTS WITH 1-1/2" FOIL FACED FIBERGLASS DUCT WRAP, DUCT WRAP TO HAVE AN INSTALLED MINIMUM THERMAL RESISTANCE (R) VALUE OF 6.0.

15. ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTION IN ACCORDANCE WITH LATEST SMACNA STANDARDS.

16. DUCT SHALL BE SECURELY SUPPORTED, HUNG OR SUSPENDED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. PROVIDE MINIMUM 1-1/2" WIDE 22 GA. STRAPS, 10 FT. SPACING FOR MAXIMUM HALF DUCT PERMETER UP TO 30" AND ALL ROUND FLEX DUCT. PROVIDE 1" WIDE 22 GA. STRAPS, 5 FT. SPACING FOR MAXIMUM HALF DUCT PERMETER FROM 31" TO 72" AND 1" WIDE 20 GA. STRIPS, 10 FT. SPACING FOR MAXIMUM HALF DUCT PERMETER UP TO 96".

17. PROVIDE ALL ROOM TOP UNITS WITH MANUFACTURER'S RECOMMENDED SERVICE AREA CLEARANCES. PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE ROOF TOP UNIT. CONDENSATE PIPING TO BE TYPE "L" COPPER.

18. VERIFY VOLTAGE WITH ELECTRICAL BEFORE ORDERING EQUIPMENT.

19. ALL MECHANICAL EQUIPMENT CONTROL WIRING TO BE ROUTED IN CONDUIT.

20. GUARANTEE, FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER, ALL EQUIPMENT, MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECT.

21. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SO AS TO INSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING, STRUCTURE OR OCCUPANT AREAS. THE DECISION OF THE ENGINEER AS TO THE QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY SYSTEM OR EQUIPMENT AS REQUIRED.

22. ALL MATERIAL SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TESTS SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE MECHANICAL CODES.

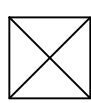
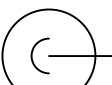
23. LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS SHOWN ON THE DRAWINGS ARE REFERENCE LOCATIONS ONLY. THE FINAL PLACEMENT OF THE DETECTOR IN THE DUCTWORK SHALL MEET THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A PRESSURE DIFFERENTIAL TEST AND THE MANUFACTURER'S TEST KIT. A COPY OF ALL TEST DATA WILL BE MADE AVAILABLE AT THE FINAL INSPECTION. PROVIDE READILY ACCESSIBLE DUCT ACCESS DOOR FOR INSPECTING AND SERVICING THE DETECTOR. THE ACTIVATION OF A SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT AN APPROVED LOCATION AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. DUCT SMOKE DETECTORS ARE FURNISHED AND WREDED TO SHUT DOWN UNIT BY DIVISION 16, BUT SHALL BE INSTALLED IN DUCTWORK BY THE MECHANICAL CONTRACTOR.

1. FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO REMOVE ALL EXISTING EQUIPMENT AND ALL PIPE, FITTINGS, VALVES, SUPPORTS AND APPURTENANCES AS INDICATED NOT REQUIRED FOR THE PROPER OPERATION OF THE RENOVATED FACILITY. DEMOLITION WILL BE CONSISTENT WITH THE FINAL CONFIGURATION OF THE NEW SYSTEMS AS INDICATED, AS SPECIFIED HEREIN, OR AS REQUIRED BY THE ARCHITECT. THE EQUIPMENT AND PIPING INDICATED SHALL BE REMOVED FROM THEIR PRESENT LOCATIONS AND BECOME THE PROPERTY OF THE CONTRACTOR (UNLESS OTHERWISE NOTED) AND SHALL BE REMOVED FROM THE SITE AS SPECIFIED HEREINAFTER.
2. BEFORE REMOVAL OF ANY ELECTRICALLY OPERATED EQUIPMENT, COORDINATE CAREFULLY TO ASSURE THAT POWER AND CONTROL WIRING HAS BEEN DISCONNECTED AND TERMINATED PER CODE REQUIREMENTS OR REMOVED AS REQUIRED.
3. IF, DURING THE PROGRESS OF CONSTRUCTION OR DEMOLITION, ANY INSULATION SUSPECTED OF CONTAINING ASBESTOS IS DISCOVERED, IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. REMOVAL OF SUCH INSULATION WILL BE PERFORMED BY OTHERS. UNTIL THE REMOVAL PROCESS IS COMPLETE, WORK IN THE AREA SHALL BE SUSPENDED.
4. DO NOT PROCEED WITH THE REMOVAL OF ANY EQUIPMENT, PIPING OR APPURTENANCES WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. ANY EQUIPMENT, PIPING OR APPURTENANCES REMOVED WITHOUT PROPER AUTHORIZATION, WHICH ARE NECESSARY FOR THE REPAIR OF THE RENOVATED FACILITY SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT

# M001

## DIFFUSER, REGISTER, and GRILLE SCHEDULE

All model numbers are Titus unless otherwise indicated.

|                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br> | <p><b>HIGH PERFORMANCE SQUARE CEILING SUPPLY DIFFUSER</b></p> <p>TMS-AA      24x24 or 12x12 face as shown, neck size (NS) and CFM as noted, border type to match ceiling type in architectural reflected ceiling plan. Aluminum construction with 3-cone design. Provide face operable damper in inaccessible ceiling locations. Finish as approved by Architect.</p> |
| <br> | <p><b>ROUND SUPPLY DIFFUSER</b></p> <p>TMR-AA      22" face, neck size (NS) and CFM as noted, Aluminum construction with 3-cone design. Finish as approved by Architect.</p>                                                                                                                                                                                          |
| <br> | <p><b>EGGCRATE RETURN AIR GRILLE</b></p> <p>50F      24X24 or 12X12, Face size (FS) as noted.<br/>1/2"x1/2"x1/2" grid. Border type as required by Architectural reflected ceiling plan. Aluminum construction for border and grid. Anodized finish as approved by Architect.</p>                                                                                      |
| <br> | <p><b>TOILET EXHAUST REGISTER</b></p> <p>50F      Face size (FS), as noted, 1/2"x1/2"x1/2" grid. Border type as required by Architectural reflected ceiling plan. Aluminum construction for border and grid. Provide volume damper in neck of register. Finish as approved by Architect.</p>                                                                          |

## HOOD SCHEDULE

[illegible]

① SEE KITCHEN DRAWINGS FOR HOOD DETAILS.

## FAN SCHEDULE

[illegible]

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR SERVICE VOLTAGE CHARACTERISTICS.
2. PROVIDE BACKDRAFT DAMPER, SPEED CONTROLLER MOUNTED AT FAN, AND DISCONNECT SWITCH.
3. INTERLOCK WITH RTU-1.
4. INTERLOCK OPERATION OF FAN WITH KITCHEN HOOD.
5. INTERLOCK WITH DOOR SWITCH.
6. PROVIDE 20" HIGH ROOF CURB.
7. PROVIDE 12" HIGH ROOF CURB.

## RTU SCHEDULE

[illegible]

NOTES:

1. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 105°F DB ENTERING CONDENSER.
2. PROVIDE 14" HIGH ROOF CURB.
3. PROVIDE FACTORY INSTALLED DISCONNECT AND UNPOWERED CONVENIENCE OUTLET.
4. PROVIDE THROUGH THE BASE ELECTRICAL ACCESS
5. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
6. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
7. PROVIDE SUPPLY AIR SMOKE DETECTOR.
8. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
9. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
10. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING ORDER FOR EQUIPMENT.
11. EXISTING UNIT.

## BUILDING AIR BALANCE SCHEDULE

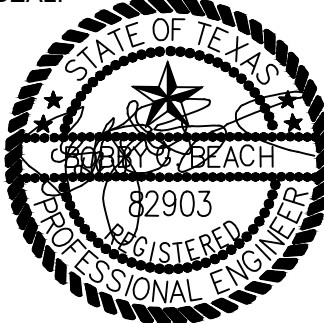
| MARK                    | EXHAUST<br>AIRFLOW<br>(CFM) | OUTSIDE<br>AIRFLOW<br>(CFM) | USE                    | NOTES |
|-------------------------|-----------------------------|-----------------------------|------------------------|-------|
| <u>KEF-1</u>            | 2,450                       |                             | KITCHEN<br>HOOD        |       |
| <u>TEF-1</u>            | 350                         |                             | TOILET<br>EXHAUST      |       |
|                         |                             |                             |                        |       |
|                         |                             |                             |                        |       |
|                         |                             |                             |                        |       |
| <u>KSF-1</u>            |                             | 1,940                       | KITCHEN HOOD<br>MAKEUP |       |
| <u>RTU-1</u>            |                             | 500                         | PAVILLION              |       |
| <u>RTU-2</u>            |                             | 500                         | DINING                 |       |
| <u>RTU-3</u>            |                             | 500                         | DINING                 |       |
| <u>RTU-3</u>            |                             | 500                         | KITCHEN                |       |
|                         |                             |                             |                        |       |
| TOTAL<br>EXHAUST        | 2,800                       |                             |                        |       |
| TOTAL<br>OUTSIDE AIR    |                             | 3,940                       |                        |       |
| BUILDING AIR<br>BALANCE |                             | +1,140                      |                        |       |

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.  
ARCHITECT

423 FISCHER TRAIL  
ELLIJAY, GEORGIA 30540

SEAL:



10/11/2019



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NOT RELEASED FOR  
CONSTRUCTION

ISSUES / REVISIONS:

[illegible]

**DRAWN BY:**

DMB

CHK'D BY:

BGB

PROJECT DESCRIPTION:

## PROJECT DESCRIPTION

PROJECT TITLE:

BAR-B-CUTIE  
SMOKEHOUSE  
22211 EAST GRIFFIN  
SUITE 100 & 110  
MISSION, TX 78572

HEET TITLE:

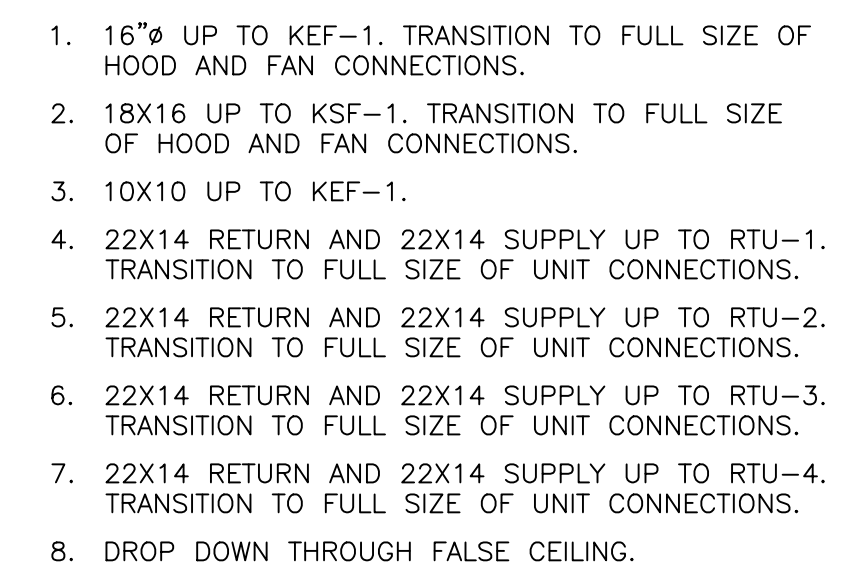
## MECHANICAL SCHEDULES

PROJECT NO:

19044

M002

M101


$$1/4'' = 1'-0''$$

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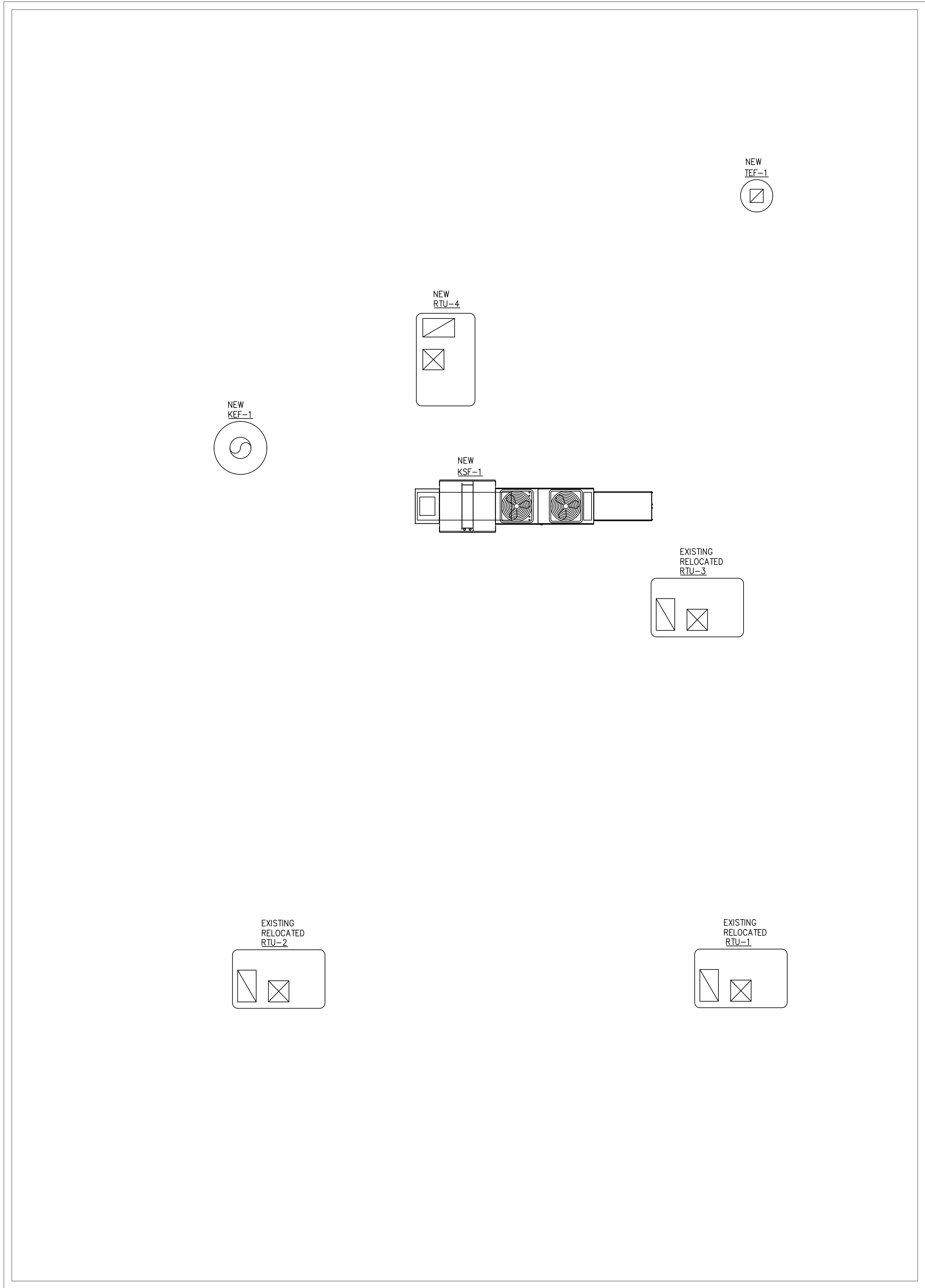
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1

ROOF PLAN - MECHANICAL

1/4" = 1'-0"



- SHEET NOTES:**
1. MAINTAIN A MINIMUM 10 FEET DISTANCE BETWEEN INTAKE AND EXHAUST OR VENTS.

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.  
ARCHITECT

423 FISCHER TRAIL  
ELLIJAY, GEORGIA 30540

SEAL:

10/11/2019

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CONSTRUCTION**

| ISSUES / REVISIONS: |             |
|---------------------|-------------|
| DATE                | DESCRIPTION |
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|-----------|-----|
| DRAWN BY: | DMB |
| CHKD BY:  | BGB |

**PROJECT DESCRIPTION:**  
PROJECT DESCRIPTION

**PROJECT TITLE:**

**BAR-B-CUTIE  
SMOKEHOUSE**  
2211 EAST GRIFFIN  
SUITE 100 & 110  
MISSION, TX 78572

**SHEET TITLE:**

ROOF PLAN -  
MECHANICAL

**PROJECT NO:** 19044

**M102**







SCALE: NONE

TOTAL: 1,105 MBH

NOTE:  
TYPE OF GAS:  
NATURAL GAS  
MATERIAL OF GAS  
PIPING: SCHEDULE 40  
BLACK STEEL  
SYSTEM:  
SINGLE STAGE SYSTEM

ARCHITECT OF RECORD:

10/11/2019

