

**PROJECT DETAIL**

Scope of work: Interior build out - Non-bearing partition walls to create spaces, installing new floors throughout, mechanical (HVAC electrical and plumbing) work as needed (see plans in set), installing decorative paneling as needed, new doors, new paint throughout

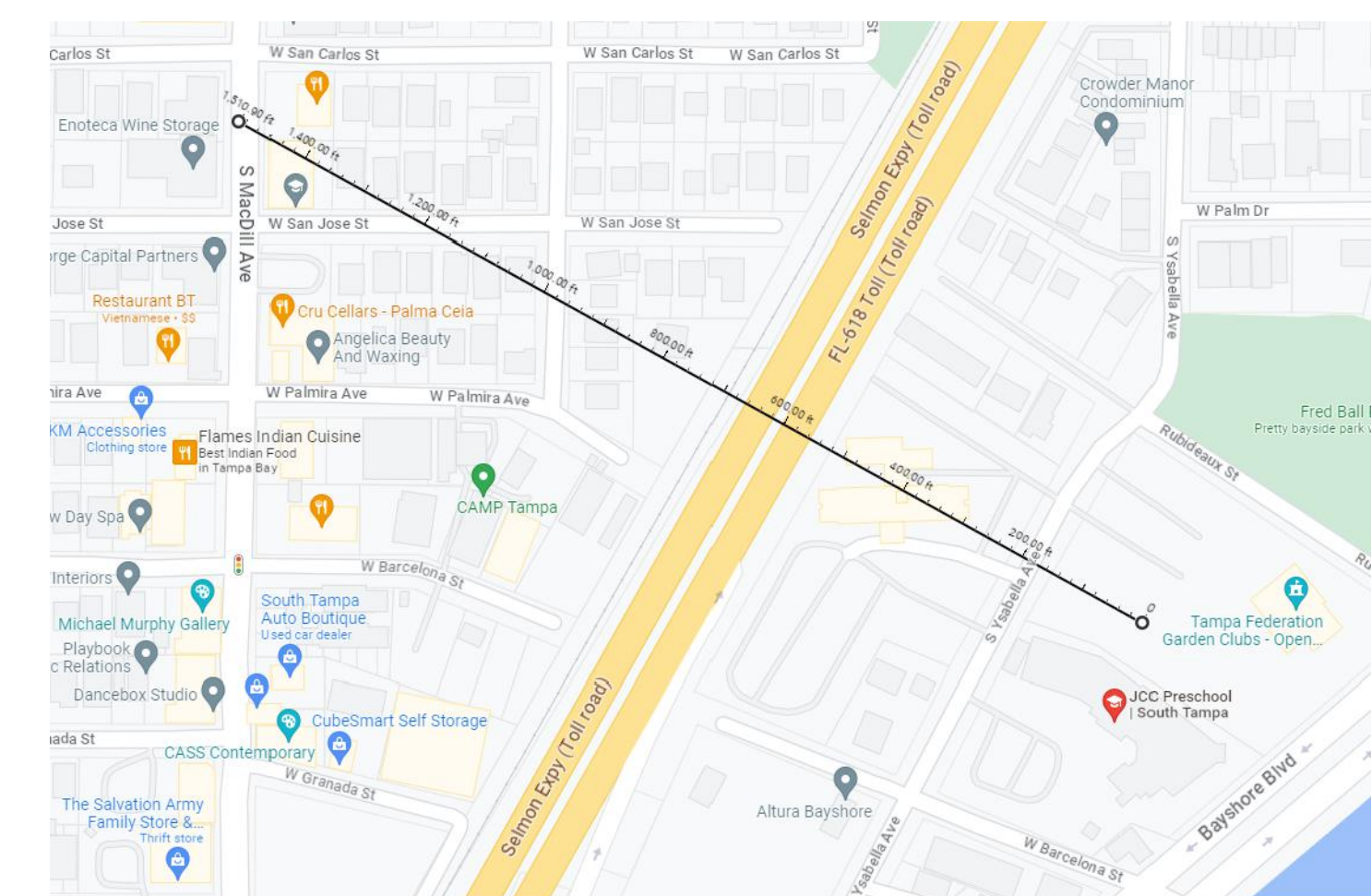
Construction Type: 2B

Occupancy Type: Mercantile -

**\* NO PARTICIPATION OR SMOKING ON SITE**

Occupancy Category: M-1

Alteration sq.ft.: 3,246



*James Ramos*

G.C. James A. Ramos  
CGC #1522125  
Ramos Construction  
5706 S. MacDill Ave  
Tampa, FL 33611

DISTANCE BETWEEN SUNBURN SUITES AND SCHOOL DISTRICT FOR MORE INFORMATION REFER TO CITY OF TAMPA LETTER AND SPECIAL PURPOSE SURVEY DOCUMENTS ALREADY UPLOADED IN ORIGINAL PERMIT BLD-22-0489000

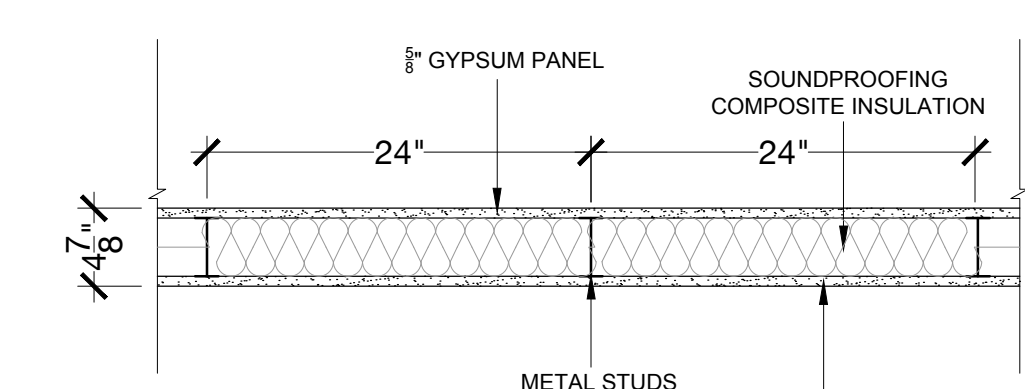
**DETAIL 1 - DEMISING WALL DETAIL - METAL STUD SYSTEM**  
(Non-Load Bearing)  
FIRE RATING - 2 HOURS  
SYSTEM THICKNESS - 4.875 in.

**ASSEMBLY DETAILS**

Gypsum Panel: 1 layer 5/8" Securock Ultralight Glass-mat sheathing (Type X)

Metal studs: 1 layer 3 5/8" 18 ga.

Gypsum Panel: 1 layer 5/8" Securock Ultralight Glass-mat sheathing (Type X)



**DETAIL 1 - DEMISING WALL**  
SCALE: NTS

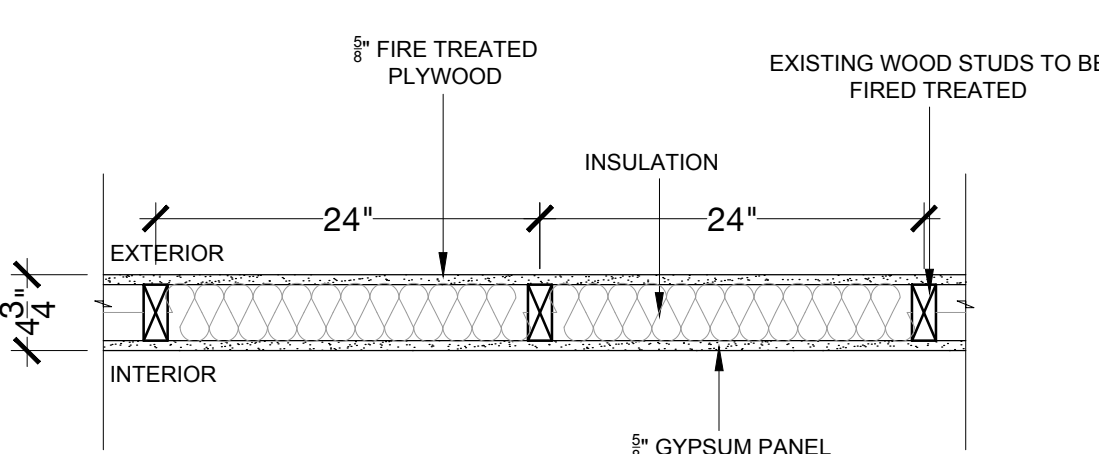
**DETAIL 3 - EXTERIOR WALL DETAIL - FIRE TREATED WOOD STUD SYSTEM**  
(Non-Load Bearing)  
FIRE RATING - 2 HOURS  
SYSTEM THICKNESS - 4.75 in.

**ASSEMBLY DETAILS**

Gypsum Panel: 1 layer 5/8" Securock Ultralight Glass-mat sheathing (Type X)

Fire treated wood studs: 1 layer 2x4

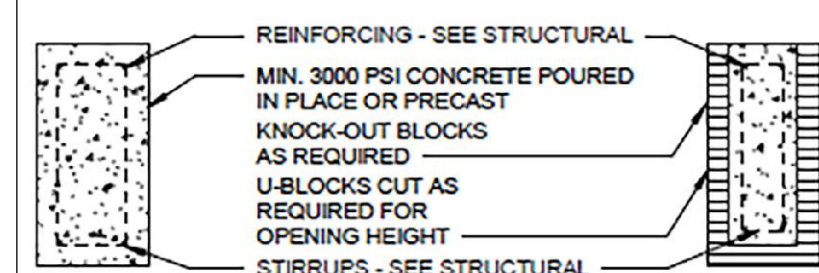
Fire treated plywood: 1 layer 5/8"



**DETAIL 3 - EXTERIOR WALL**  
SCALE: NTS

**DETAIL 2 - EXISTING CMU WALL**

**LINTEL DETAILS**

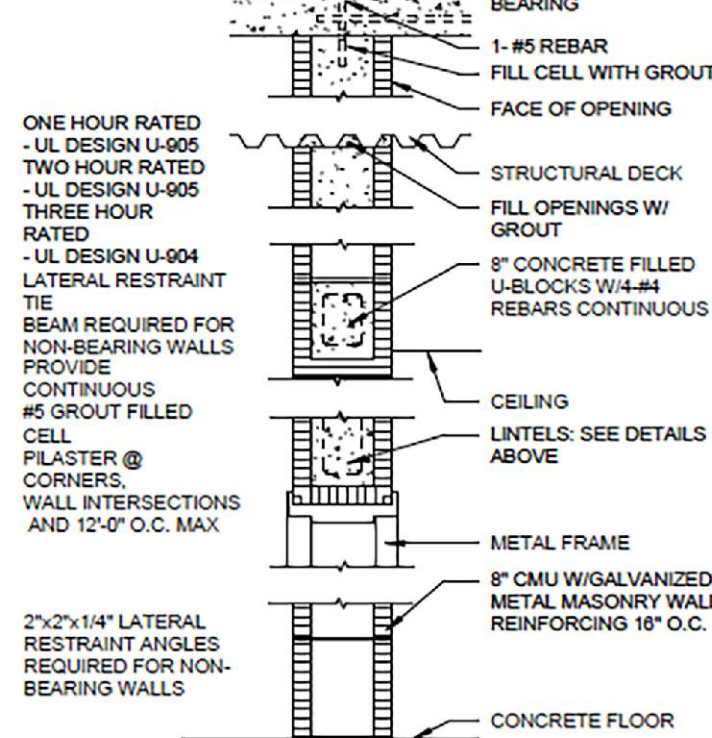


**LINTEL SCHEDULE**

| MAX CLEAR SPAN | NOMINAL SIZE | REINFORCING | STIRRUPS |
|----------------|--------------|-------------|----------|
| 6'-4"          | 8" x 8"      | 2-#4 BOTTOM |          |
| 7'-4"          | 8" x 8"      | 2-#5 BOTTOM |          |
| 8'-0"          | 8" x 10"     | 2-#4 TOP    |          |
| 10'-0"         | 8" x 10"     | 2-#5 BOTTOM |          |
| 12'-0"         | 8" x 10"     | 2-#5 TOP    |          |
|                |              | 2-#5 BOTTOM |          |
|                |              | 2-#7 BOTTOM |          |

NOTES:  
1. FOR OPENING WITH SPAN LESS THAN 3'-4" WITH HOLLOW METAL FRAME NO LINTEL IS REQUIRED.  
2. FOR LINTELS CARRYING FLOOR LOADS REFER TO STRUCTURAL DRAWINGS.

**WALL SECTION**



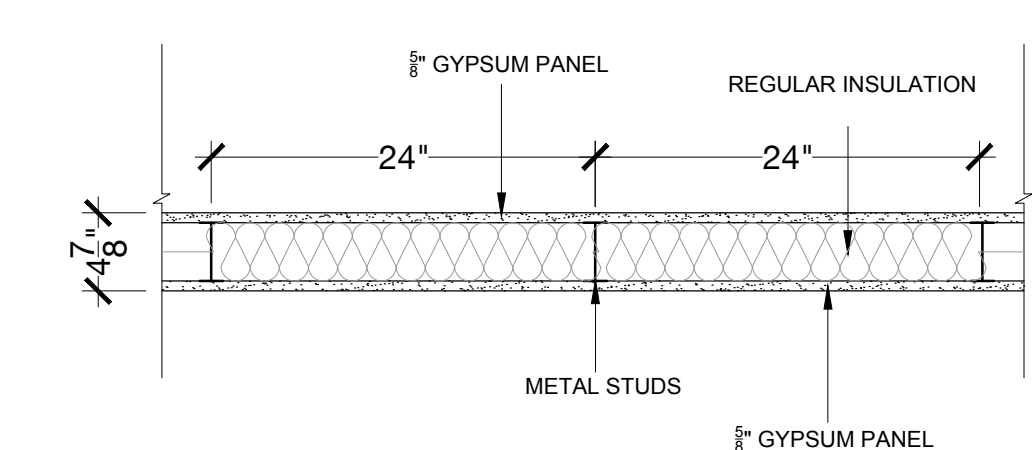
**DETAIL 4 - SUITE BUILD-OUT PARTITION WALL - METAL STUD SYSTEM**  
(Non-Load Bearing)  
FIRE RATING - 2 HOURS  
SYSTEM THICKNESS - 4.875 in.

**ASSEMBLY DETAILS**

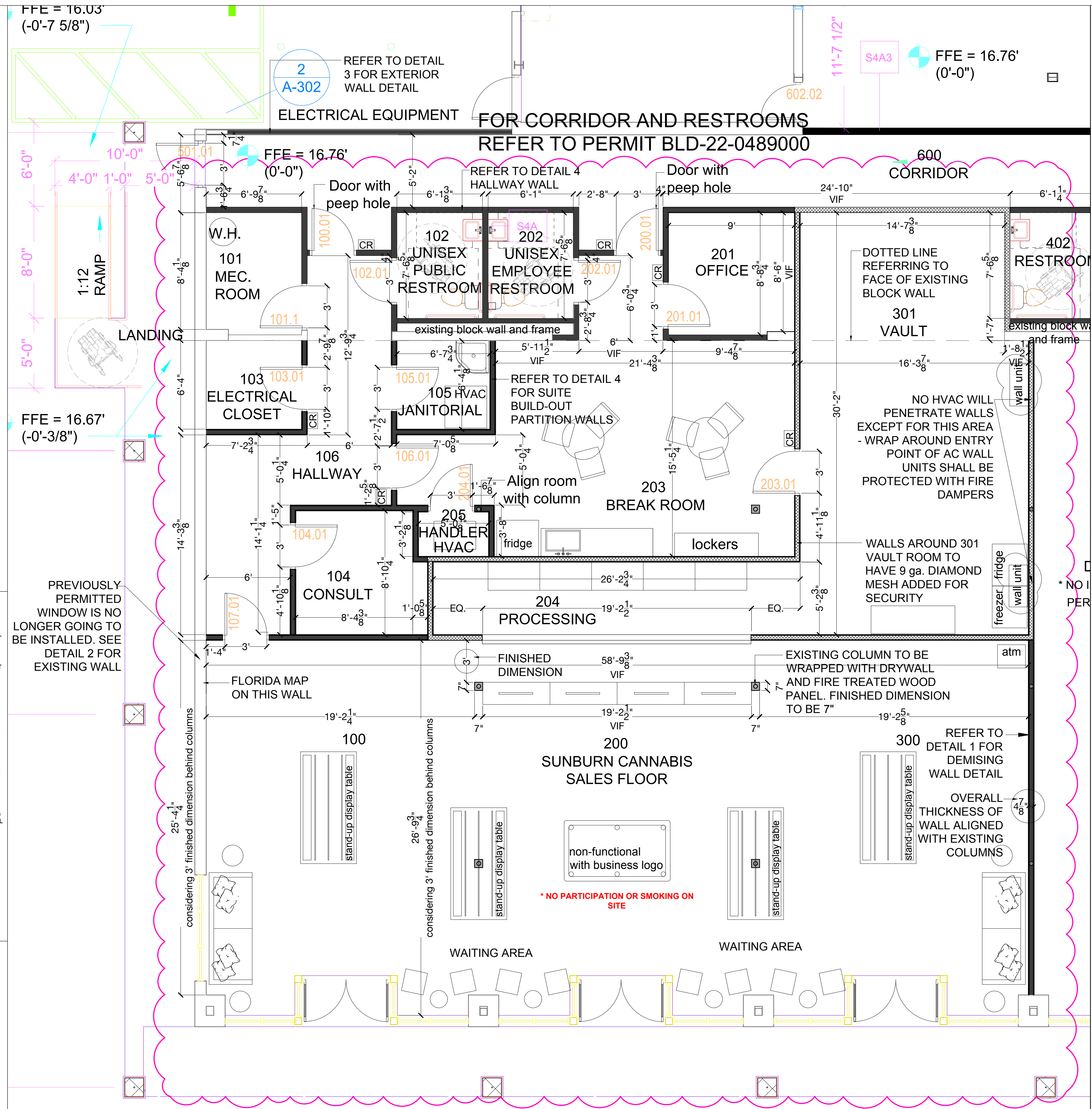
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Metal studs: 1 layer 3 5/8" 18 ga.

Gypsum Panel: 1 layer 5/8" Securock Ultralight Glass-mat sheathing (UL Type X)



**DETAIL 4 - SUITE BUILD-OUT PARTITION WALL**  
SCALE: NTS



**1 LAYOUT FLOOR PLAN SUITES 100-300 - SUNBURN CANNABIS**  
ID- 101 SCALE: 1/4" = 1'-0"

**LAUREN KLEIN INTERIORS, LLC**  
LAUREN KLEIN INTERIORS, LLC  
1117 1/2" S4A3 FFE = 16.76' (0'-0")

**Ramos Design Build Corp.**  
Ramos Design Build Corporation  
5706 S. MacDill Ave  
Tampa, FL 33611  
LIC. CS00000001

**RAMOS DESIGN + BUILD**

SUNBURN CANNABIS  
2409 S. MacDill Avenue - Suites 100-300  
Tampa, FL 33629  
LAYOUT PLAN

DATE: 05/22/23  
DRAWN: LK  
SCALE: 1/4" = 1'-0"  
SHEET SIZE: 24X36

| No. | Date     | Revision |
|-----|----------|----------|
| 1   | 05/15/23 | Revision |
| 2   | 07/13/23 | Revision |
| 3   | 08/04/23 | Revision |
| 4   | 08/29/23 | Revision |
| 5   | 09/07/23 | Revision |

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LAYOUT PLAN AND WALL DETAIL

\* DRAWING ARE FOR DESIGN INTENT ONLY  
\* ALL DIMENSIONS ARE CONSIDERED FINISHED  
\* G.C. TO VERIFY ALL DIMENSIONS ON SITE BEFORE BUILDING

**ID-101**

**LIFE SAFETY PLAN LEGEND**

150' GRAPHIC ILLUSTRATION OF TRAVEL DISTANCE TO EXIT FROM REMOTE POINT

LIGHTED EXIT SIGN

EXIT EGRESS CAPACITY: XX"/XXX INCHES OF CLEAR EXIT WIDTH/EGRESS CAPACITY IN NUMBER OF PERSONS

34"/170

DOOR HOLDER [IF REQUIRED BY AHJ]

A.D.O. TOUCH PAD

A.D.O. KEY PAD

CARD READER

SMOKE COMPARTMENT

FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUCIATOR PANEL

FIRE EXTINGUISHER

FIRE EXTINGUISHER CABINET

FIRE HOSE CABINET

SUITE AREA

ROOM # ROOM NAME ROOM TAG

Area rounded SF Occupant Load

15 Occupant Load

1. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL LIFE SAFETY DECIDES NOT SHOWN ON THIS DRAWING

2. EXTEND ALL RATED PARTITIONS TO DECK ABOVE U.O.N

3. FIRE EXTINGUISHERS - ALL EXISTING EXTINGUISHERS SHALL BE CLEANED AND RECERTIFIED PRIOR TO RELOCATION.

4. PROVIDE STENCILING AT RATED AND SMOKE TIGHT CONCEALED ASSEMBLIES AS REQUIRED PER AUTHORITY HAVING JURISDICTION

**LEGEND - WALL RATINGS**

1 HOUR

1 HOUR SMOKE

2 HOUR

2 HOUR SMOKE

3 HOUR

3 HOUR SMOKE

4 HOUR

4 HOUR SMOKE

SMOKE

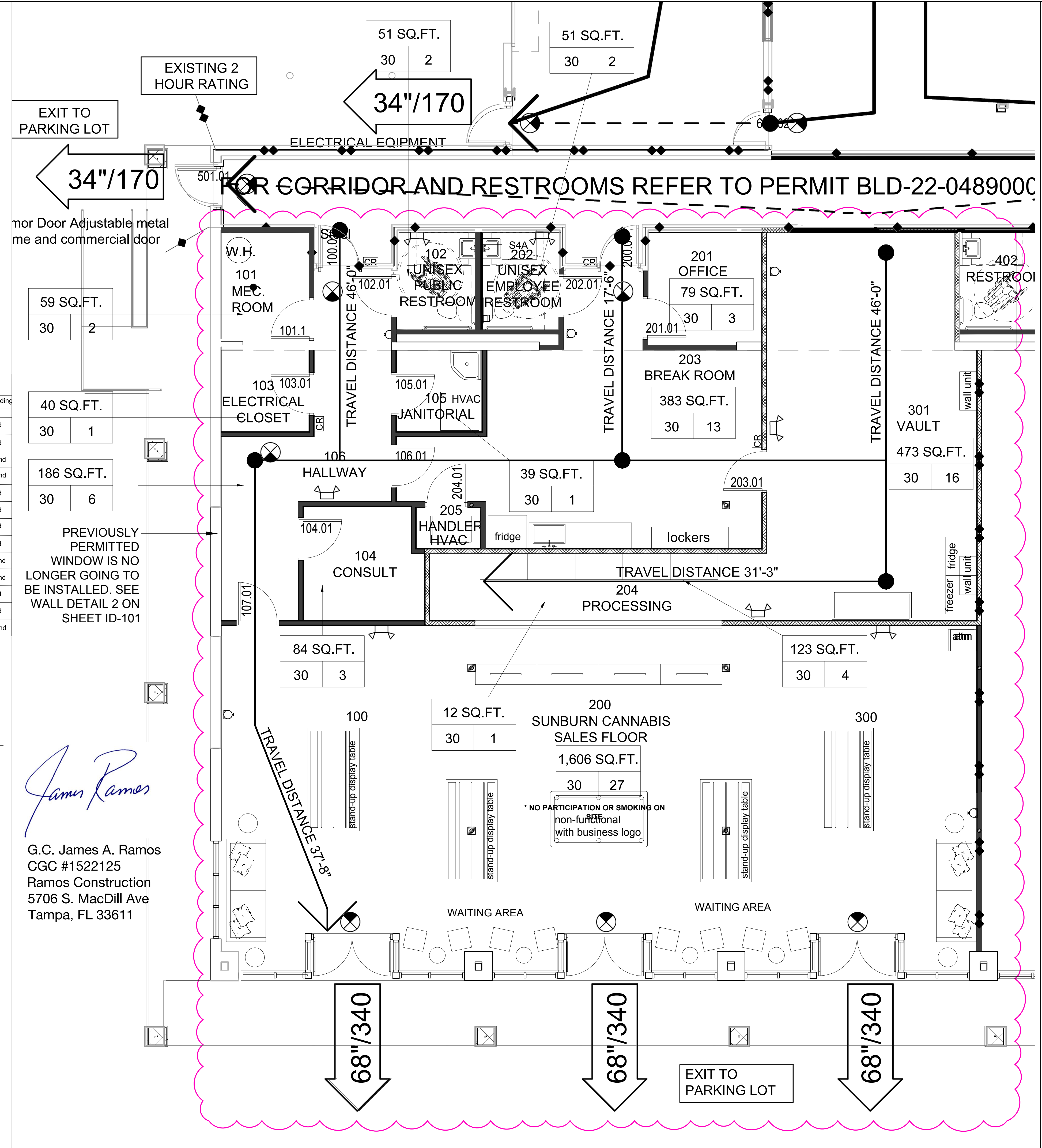
**SCHEDULE - DOOR**

| Door # | Door Description/Manufacturer                         | Model #       | Material | Width | Height | Fire Rating | Door Handing |
|--------|---|---------------|----------|-------|--------|-------------|--------------|
| 100.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 101.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 102.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680ER | Steel    | 36"   | 80"    | 90 min      | Right Hand   |
| 103.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680ER | Steel    | 36"   | 80"    | 90 min      | Right Hand   |
| 104.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 105.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 106.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 107.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 200.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680ER | Steel    | 36"   | 80"    | 90 min      | Right Hand   |
| 201.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680ER | Steel    | 36"   | 80"    | 90 min      | Right Hand   |
| 202.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 203.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680EL | Steel    | 36"   | 80"    | 90 min      | Left Hand    |
| 204.01 | Armor Door Adjustable metal frame and commercial door | VSDFPEX3680ER | Steel    | 36"   | 80"    | 90 min      | Right Hand   |

**NET OCCUPANCY LOADS AND EGRESS WIDTHS**

| Number      | Name                         | Area Rounded (SF) | SF Per Person | Occupant Load Rounded | NON-STAIR EGRESS REQUIRED EGRESS WIDTH | REQUIRED EGRESS WIDTH (OTHER) .3" |
|-------------|------------------------------|-------------------|---------------|-----------------------|--|-----------------------------------|
| 100/200/300 | SUNBURN CANNABIS SALES FLOOR | 1,606             | 30 SF         | 53                    | 10.6"                                  | 15.9"                             |
| 101         | MEC. ROOM                    | 59                | 30 SF         | 2                     | 0.4"                                   | 0.6"                              |
| 102         | RESTROOM                     | 51                | 30 SF         | 2                     | 0.4"                                   | 0.6"                              |
| 103         | ELECTRICAL CLOSET            | 40                | 30 SF         | 1                     | 0.2"                                   | 0.3"                              |
| 104         | CONSULT                      | 84                | 30 SF         | 3                     | 0.6"                                   | 0.9"                              |
| 105         | JANITORIAL                   | 39                | 30 SF         | 1                     | 0.2"                                   | 0.3"                              |
| 106         | HALLWAY                      | 186               | 30 SF         | 6                     | 1.2"                                   | 1.8"                              |
| 201         | OFFICE                       | 79                | 30 SF         | 3                     | 0.6"                                   | 0.9"                              |
| 202         | RESTROOM                     | 51                | 30 SF         | 2                     | 0.4"                                   | 0.6"                              |
| 203         | BREAK ROOM                   | 383               | 30 SF         | 13                    | 2.6"                                   | 3.9"                              |
| 204         | PROCESSING                   | 123               | 30 SF         | 4                     | 0.8"                                   | 1.2"                              |
| 205         | HANDLER                      | 12                | 30 SF         | 1                     | 0.2"                                   | 0.3"                              |
| 301         | VAULT                        | 473               | 30 SF         | 16                    | 3.2"                                   | 4.8"                              |
| Grand Total |                              | 3,186             |               | 107                   | 21.4"                                  | 32.1"                             |

\* FOR MORE INFORMATION ON OTHER ROOMS, REFER TO ORIGINAL PERMIT BLD-22-0489000



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Ramos Design Build Corp.

SUNBURN CANNABIS

2409 S. MacDill Avenue - Suites 100-300  
Tampa, FL 33629

SAFETY PLAN

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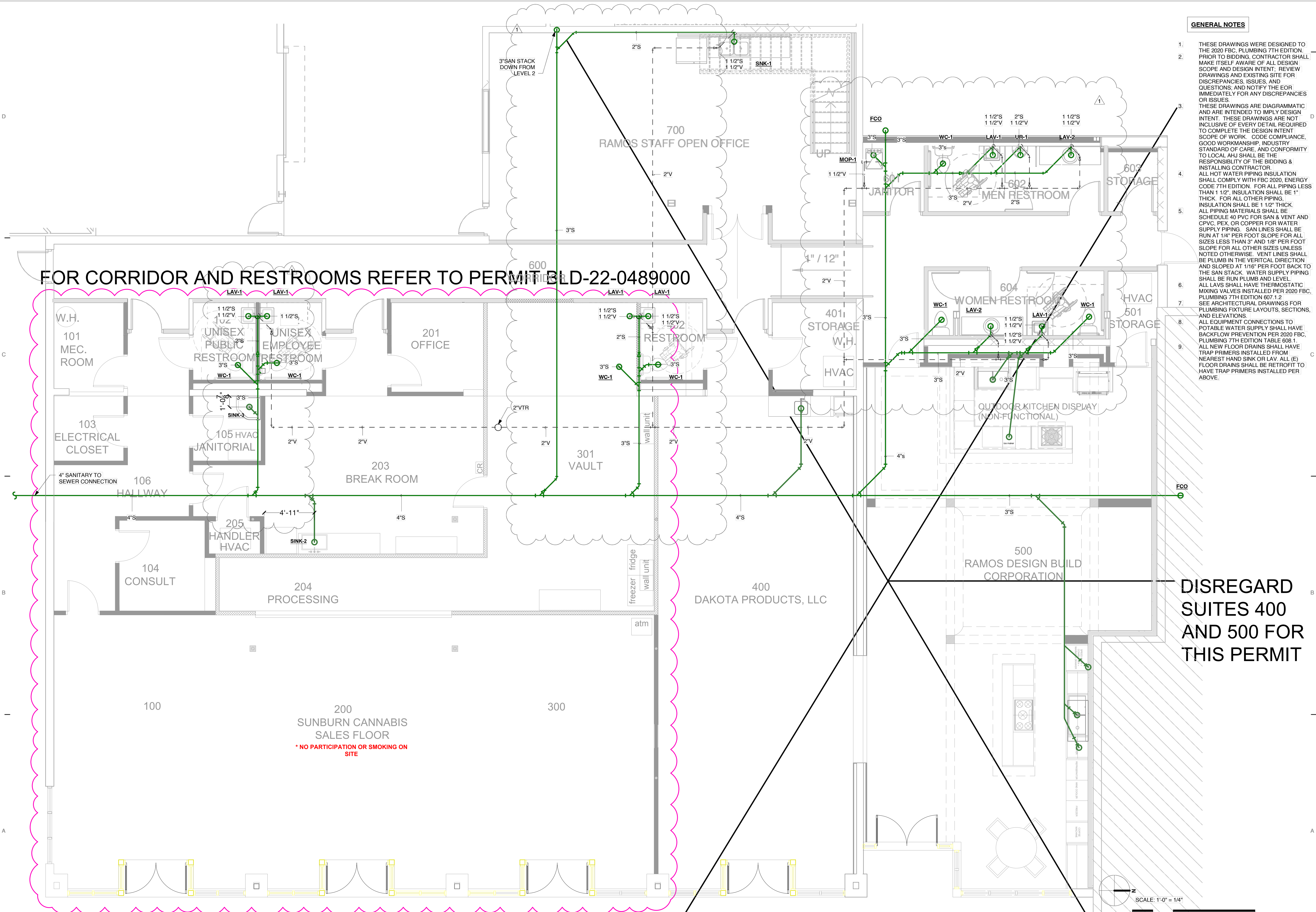
SAFETY PLAN SUITES 100-300  
ID-102

**GENERAL NOTES**

1. THESE DRAWINGS WERE DESIGNED TO THE 2020 FBC, PLUMBING 7TH EDITION. PRIOR TO BIDDING, CONTRACTOR SHALL MAKE ITSELF AWARE OF ALL DESIGN SCOPE AND DESIGN INTENT. REVIEW DRAWINGS AND EXISTING SITE FOR DISCREPANCIES, ISSUES, AND QUESTIONS, AND NOTIFY THE EOR IMMEDIATELY FOR ANY DISCREPANCIES OR ISSUES.
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3. ALL HOT WATER PIPING INSULATION SHALL COMPLY WITH FBC 2020, ENERGY CODE 7TH EDITION. FOR ALL PIPING LESS THAN 1 1/2", INSULATION SHALL BE 1" THICK. FOR ALL OTHER PIPING, INSULATION SHALL BE 1 1/2" THICK. ALL PIPING MATERIALS SHALL BE SCHEDULE 40 PVC FOR SAN & VENT AND CPVC, PEX, OR COPPER FOR WATER SUPPLY PIPING. SAN LINES SHALL BE RUN AT 1/4" PER FOOT SLOPE FOR ALL SIZES LESS THAN 3" AND 1/8" PER FOOT SLOPE FOR ALL OTHER SIZES UNLESS NOTED OTHERWISE. VENT LINES SHALL BE PLUMB IN THE VERTICAL DIRECTION AND SLOPED AT 1/16" PER FOOT BACK TO THE SAN STACK. WATER SUPPLY PIPING SHALL BE RUN PLUMB AND LEVEL.
4. ALL LAVS SHALL HAVE THERMOSTATIC MIXING VALVES INSTALLED PER 2020 FBC, PLUMBING 7TH EDITION 607.1.2.
5. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE LAYOUTS, SECTIONS, AND ELEVATIONS.
6. ALL EQUIPMENT CONNECTIONS TO POTABLE WATER SUPPLY SHALL HAVE BACKFLOW PREVENTION PER 2020 FBC, PLUMBING 7TH EDITION TABLE 608.1.
7. ALL NEW FLOOR DRAINS SHALL HAVE TRAP PRIMERS INSTALLED FROM NEAREST HAND SINK OR LAV. ALL (E) FLOOR DRAINS SHALL BE TRAP PRIFT TO HAVE TRAP PRIMERS INSTALLED PER ABOVE.

**FOR CORRIDOR AND RESTROOMS REFER TO PERMIT BLD-22-0489000**

**DISREGARD SUITES 400 AND 500 FOR THIS PERMIT**



1 LEVEL 1 - SANITARY & VENT PLAN SUITES 100-300 - SUNBURN CANNABIS  
SCALE: 1/4" = 1'-0"

**chr is w Arr En, LLC**  
Interior design & Architecture & Engineering  
Chris Warren FL REG. NO: 1D5886

**Ramos Design Build Corp.**  
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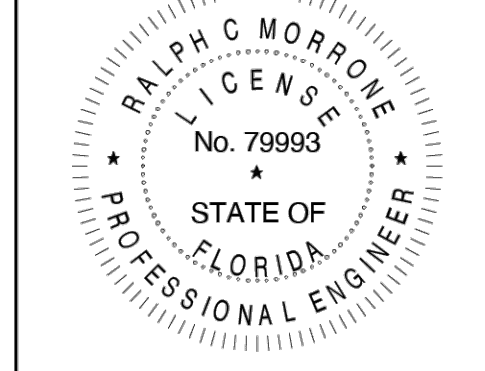
**OFFICE SUITES**  
2409 S MACDILL AVE  
TAMPA, FL 33629  
Project Status

Comm. No: 21-133  
Date: 11/22/2021  
Drawn: Author

| Revisions |        |                      |
|-----------|--------|----------------------|
| No.       | Date   | Revision Description |
| 1         | 2/2/22 | OWNER REVISIONS      |

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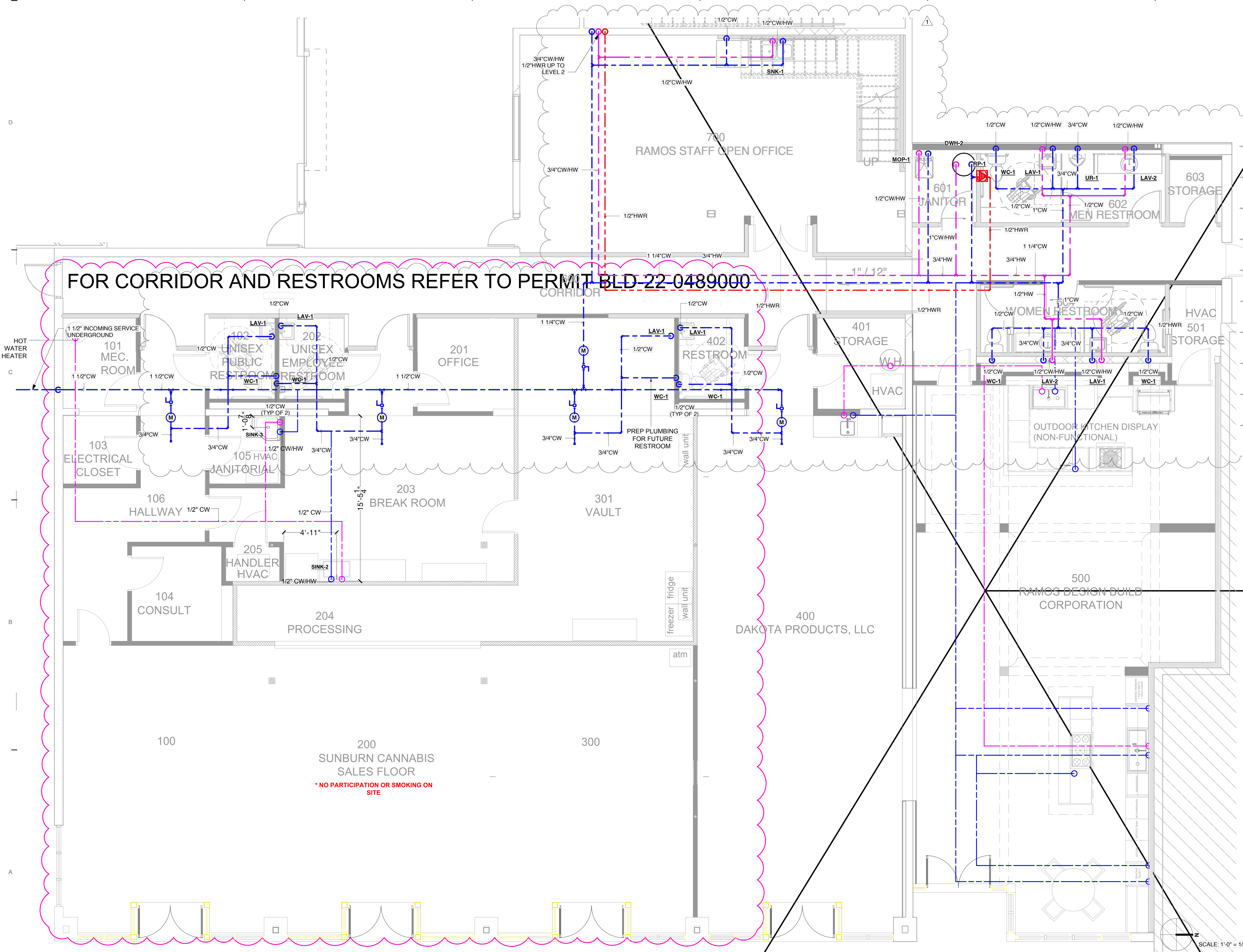
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.



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LEVEL 1 - SANITARY & VENT PLANS

**P-1**



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**DISREGARD SUITES 400 AND 500 FOR THIS PERMIT**

1 LEVEL 1 - PLUMBING PIPING PLAN SUITES 100-300 - SUNBURN CANNABIS  
SCALE: 1/4" = 1'-0"

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Interior design & Architecture & Engineering  
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**RAMOS DESIGN BUILD**

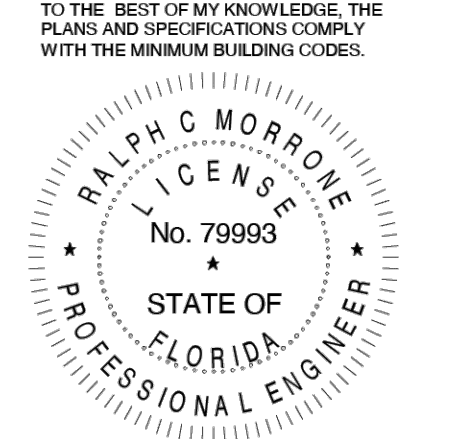
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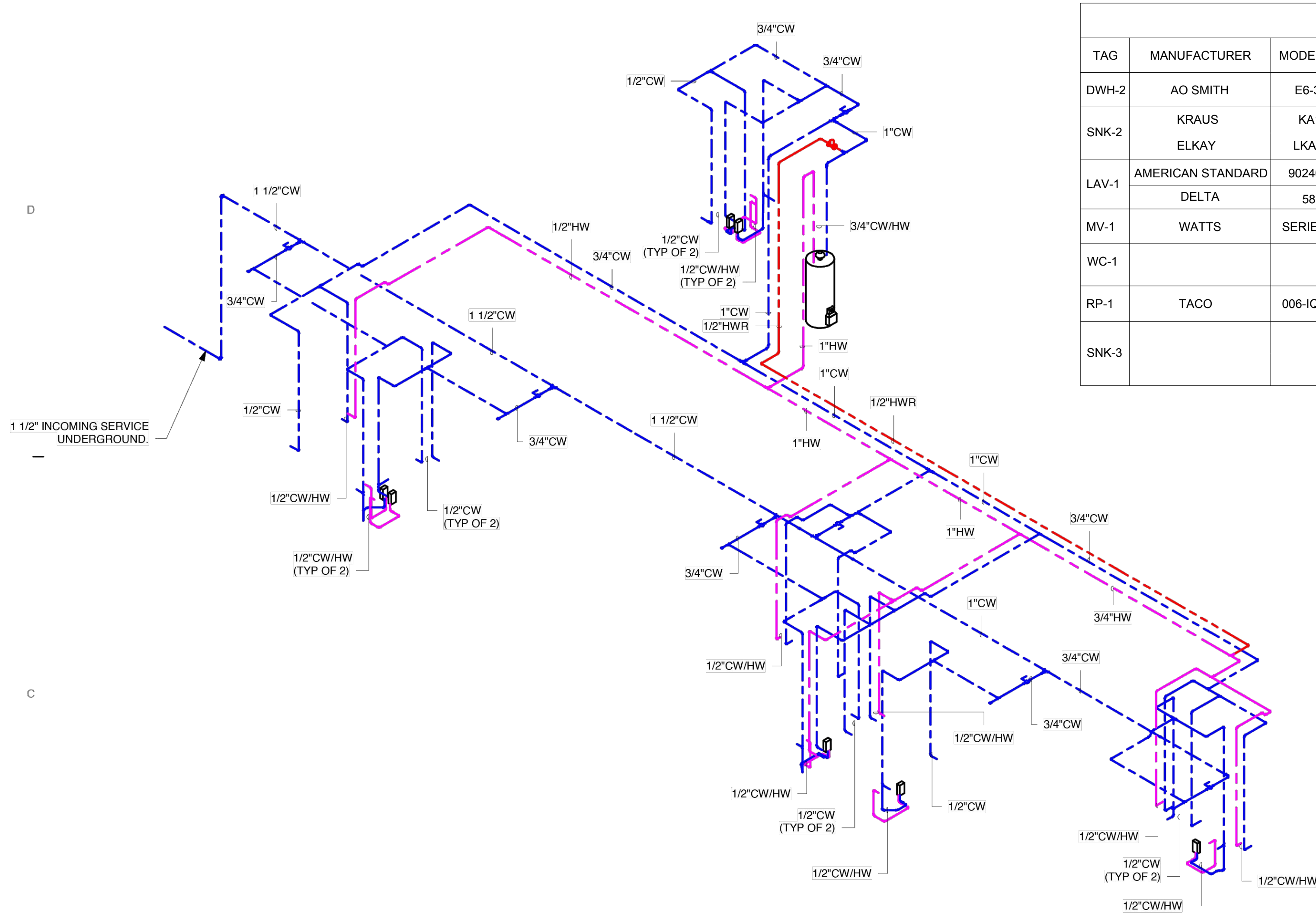
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LEVEL 1 - PLUMBING PIPING PLANS



### PLUMBING FIXTURE SCHEDULE

| TAG   | MANUFACTURER      | MODEL NUMBER  | CW   | HW   | SAN    | VENT   | NOTES   |
|-------|-------------------|---------------|------|------|--------|--------|---|
| DWH-2 | AO SMITH          | E6-30R45DV    | 3/4" | 3/4" | -      | -      | 30 GALLON WATER HEATER. SUPPLY COMPLETE WITH VACUUM BREAKER AND T&P RELIEF VALVE. 240W & QTY. 2.45KW HEATING ELEMENTS |
| SNK-2 | KRAUS             | KA1US32B      | -    | -    | 1 1/2" | 1 1/4" | DEX 32" UNDERMOUNT SINGLE BASIN STAINLESS STEEL SINK  |
| LAV-1 | AMERICAN STANDARD | 9024001EC.020 | -    | -    | 1 1/2" | 1 1/4" | DECORUM WALL MOUNTED SINK   |
|       | DELTA             | 581LF-PP      | 1/2" | 1/2" | -      | -      | MODERN SINGLE HOLE FAUCET, 1.2 GPM  |
| MV-1  | WATTS             | SERIES LFMMV  | 1/2" | 1/2" | -      | -      | LEAD FREE THERMOSTAT MIXING VALVES  |
| WC-1  |                   |               | 1/2" | -    | 3"     | 1 1/2" | TANK TYPE TOILET - COORDINATE TOILET MAKE AND MODEL W/ DESIGNER AND OWNER   |
| RP-1  | TACO              | 006-1QB4      | 1/2" | -    | -      | -      | TACO SMARTPLUS HOT WATER RECIRCULATION PUMP. SET TO 1GPM FLOW RATE.   |
| SNK-3 |                   |               | -    | -    | 1 1/2" | 1 1/4" | JANITORIAL SINK - COORDINATE SINK MAKE AND MODEL W/ DESIGNER AND OWNER  |
|       |                   |               | 1/2" | 1/2" | -      | -      | JANITORIAL FAUCET - COORDINATE SINK MAKE AND MODEL W/ DESIGNER AND OWNER  |

### WATER FIXTURE UNIT SUMMARY (new proposed)

| FIXTURE      | QTY. | CW FIXT. UNIT | HW FIXT. UNIT | TOTAL WATER FIXTURE UNIT |
|--------------|------|---------------|---------------|--------------------------|
| WC-1         | 2    | 5             | 0             | 10                       |
| LAV-1        | 2    | 1             | 0             | 2                        |
| SNK-2        | 1    | 1             | 1             | 2                        |
| SNK-3        | 1    | 1             | 1             | 2                        |
| <b>TOTAL</b> |      |               |               | <b>16</b>                |

### PLUMBING CALCULATIONS (FIXTURES PER OCCUPANCY CODE)

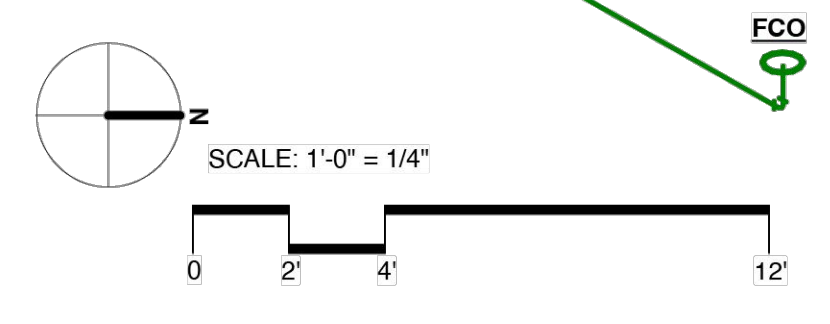
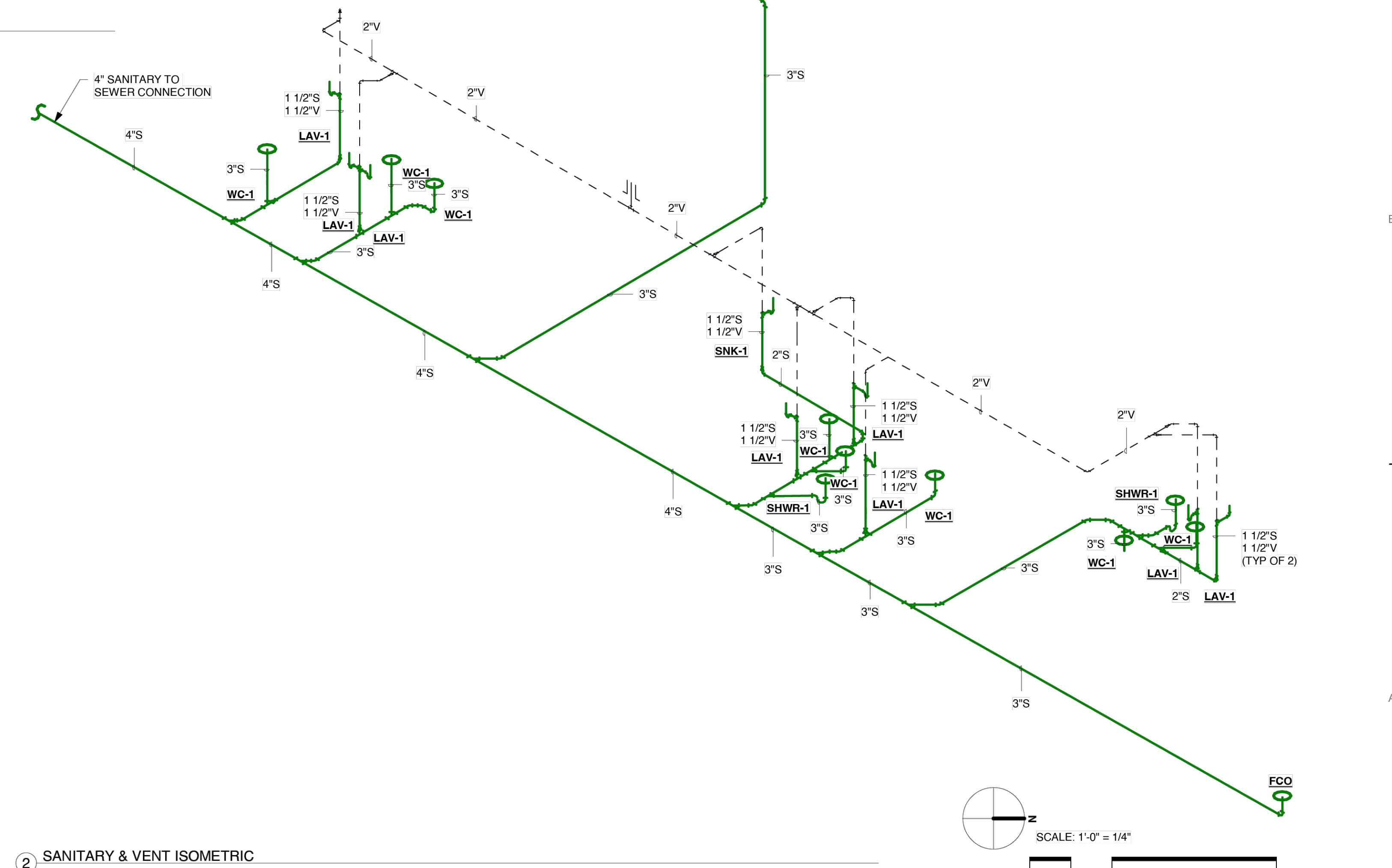
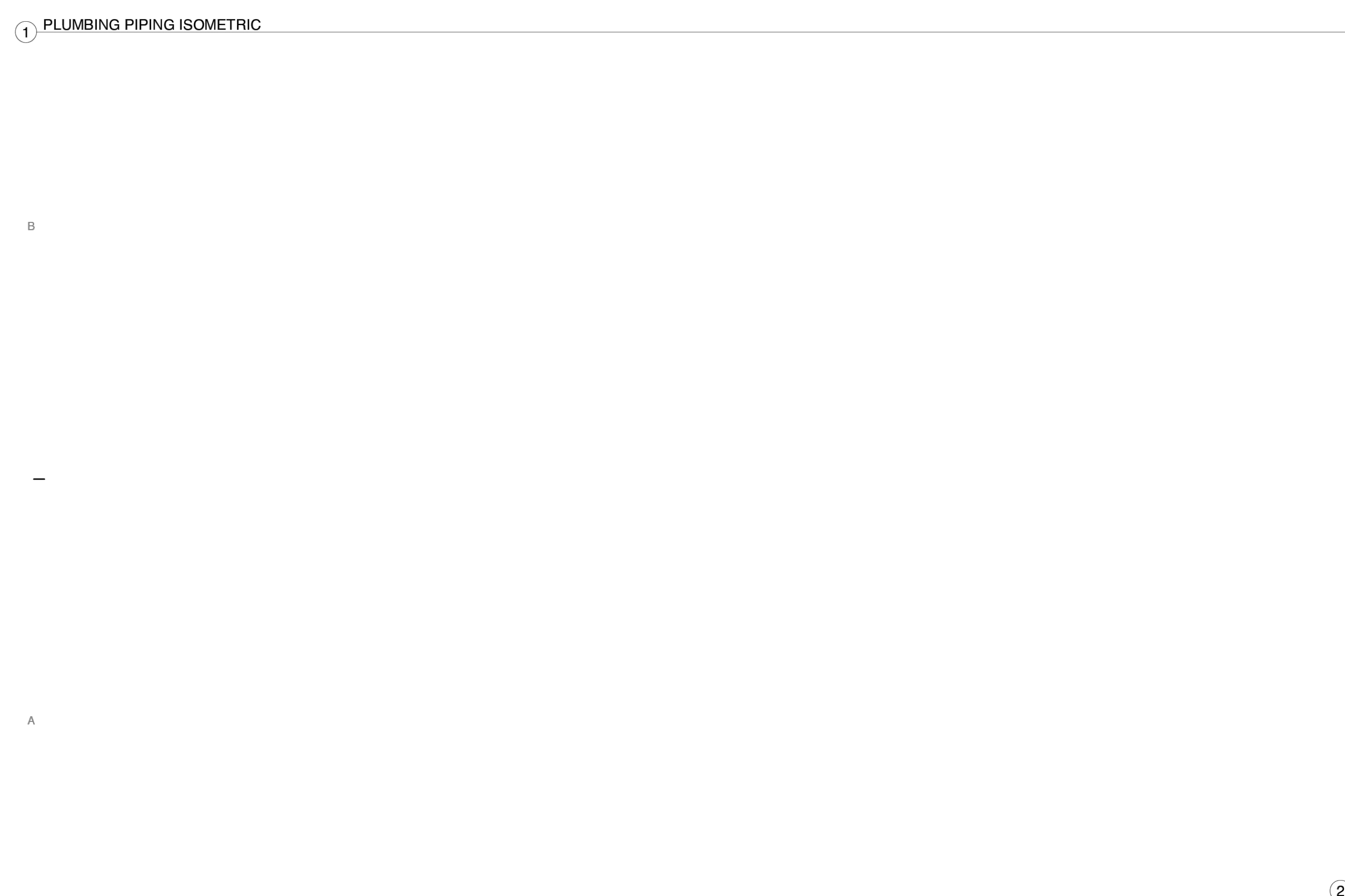
| Fixtures                     | Number of Fixtures |                  |          |       | AWWA Fixture Value (35 psi) | AWWA Total  |     |
|------------------------------|--------------------|------------------|----------|-------|-----------------------------|-------------|-----|
|                              | Existing           | Addition/Removal | Proposed | Total |                             |             |     |
| Bathtub                      | (                  | +/-              | )        | =     | x 6                         |             |     |
| Drinking Fountain            | (                  | +/-              | )        | =     | x 1.5                       |             |     |
| Kitchen sink                 | (                  | 0/-              | 1        | =     | 1 x 1.6                     | 1.6         |     |
| Other sink                   | (                  | 0/-              | 1        | =     | 1 x 3                       | 3           |     |
| Laundry Tray                 | (                  | +/-              | )        | =     | x 3                         |             |     |
| Urinal wall flush valve      | (                  | +/-              | )        | =     | x 7                         |             |     |
| Shower                       | (                  | +/-              | )        | =     | x 1.8                       |             |     |
| Water closet (toilet)        | (                  | +/-              | )        | =     | x 25                        |             |     |
| Water closet (toilet)        | (                  | 3                | +(-) 1   | )     | 2                           | 2 x 3       | 6   |
| Lavatory (Restroom Handsink) | (                  | 3                | +(-) 1   | )     | 2                           | 2 x 1.1     | 2.2 |
| Dishwasher                   | (                  | +/-              | )        | =     | x 1.5                       |             |     |
| Washing Machine              | (                  | +/-              | )        | =     | x 10                        |             |     |
|                              | (                  | +/-              | )        | =     | x 4                         |             |     |
|                              | (                  | +/-              | )        | =     | x 12                        |             |     |
|                              | (                  | +/-              | )        | =     | x 25                        |             |     |
| Hose connection              | (                  | +/-              | )        | =     | x 6                         |             |     |
|                              | (                  | +/-              | )        | =     | x 10                        |             |     |
|                              | (                  | +/-              | )        | =     | x 25                        |             |     |
|                              | (                  | +/-              | )        | =     | x 50                        |             |     |
|                              | (                  | +/-              | )        | =     | x 100                       |             |     |
|                              | (                  | +/-              | )        | =     | x 160                       |             |     |
| Hose (50ft washdown)         | (                  | +/-              | )        | =     | x 4                         |             |     |
|                              | (                  | +/-              | )        | =     | x 7                         |             |     |
|                              | (                  | +/-              | )        | =     | x 9                         |             |     |
| <b>value</b>                 |                    |                  |          |       |                             | <b>12.8</b> |     |

Will booster pump(s) be used for the domestic system?  Yes  No

Any process water or special water use? (not above fixtures)  Yes  No

Will an irrigation system be connected to the domestic meter?  Yes  No

\* FOR MORE INFORMATION ON OTHER ROOMS, REFER TO ORIGINAL PERMIT BLD-22-0489000



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 Interior design & Architecture & Engineering  
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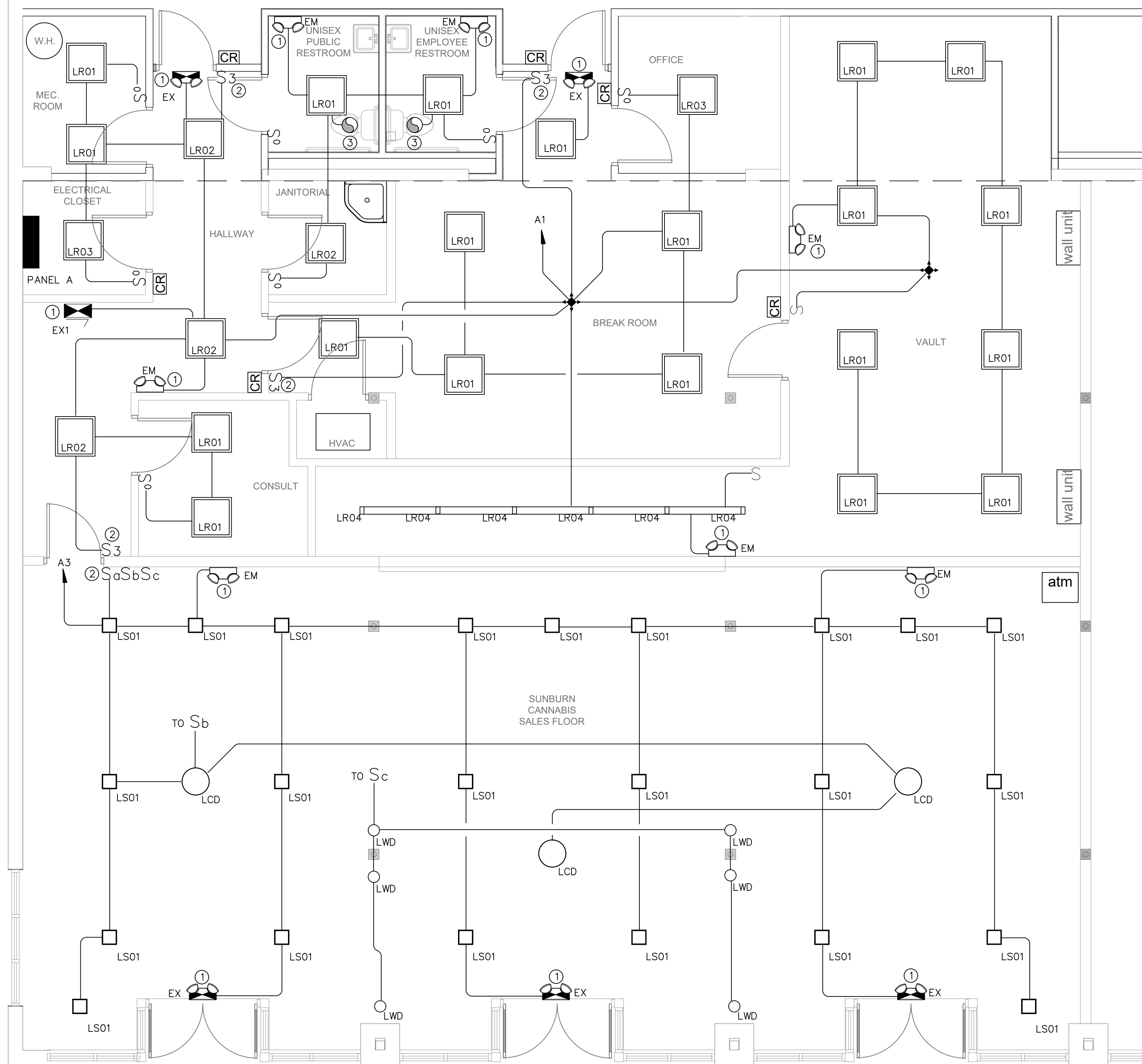
**OFFICE SUITES**  
 2409 S MACDILL AVE  
 TAMPA, FL 33629  
 Project Status

Comm. No: 21-133  
 Date: 11/22/2021  
 Drawn: Author

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

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 TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.  
 RALPH C MORRONE  
 LICENSE  
 No. 79993  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
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**PLUMBING SCHEDULES, NOTES, & DETAILS**  
**P-5**

FOR CORRIDOR AND RESTROOMS REFER TO PERMIT BLD-22-0489000



SUNBURN CANNABIS

LUMINAIRE SCHEDULE

| TYPE | MANUFACTURER | CATALOG NUMBER                   | DESCRIPTION                            | LAMPS |       |           | VOLTS | MOUNTING     |
|------|--------------|----------------------------------|--|-------|-------|-----------|-------|--------------|
|      |              |                                  |  | Qty   | Watts | Type      |       |              |
| LR01 | LITHONIA     | 2BLT2-33L-ADSM-LP835             | 2X2 CENTER BASKET LAY IN               | 20    | 26    | LED 3500K | 120   | GRID         |
| LR02 | LITHONIA     | 2BLT2-20L-ADSM-LP836             | 2X2 CENTER BASKET LAY IN               | 4     | 17    | LED 3500K | 120   | GRID         |
| LR03 | LITHONIA     | 2BLT2-48L-ADSM-LP837             | 2X2 CENTER BASKET LAY IN               | 2     | 43    | LED 3500K | 120   | SURFACE      |
| LS01 | ELEMENT      | ENCY3RS-L12-835CRI-6-D-UNV-B-B   | BLACK 3" CYLINDER                      | 23    | 12    | LED 3500K | 120   | SURFACE      |
| LWD  | ANP          | D608-M009LDD-N-40K               | LED RLM FIXTURE                        | 6     | 12    | LED 4000K | 120   | SURFACE      |
| LCD  | ANP          | D618-M016LDD-N-40K               | LED RLM FIXTURE                        | 3     | 12    | LED 4000K | 120   | SURFACE      |
| LR04 | FOCAL POINT  | FSM4L-FL-375LF-35K-1C-UNV-LD1-XF | 4" LED SLOT FIXTURE. LENGTH PER PLAN   | 5     | 13    | LED 3500K | 120   | RECESSED     |
| EX   | SURE-LITES   | APCH7R                           | EMERGENCY AND EXIT LUMINAIRE COMBO     | 5     | 2.34  | LED       | 120   | AS INDICATED |
| EXI  | SURE-LITES   | LPX7                             | BATTERY EXIT LIGHT ARROWS AS INDICATED | 1     | 1.3   | LED       | 120   | AS INDICATED |
| EM   | SURE-LITES   | APEL                             | 2-HEAD BATTERY EGRESS FIXTURE          | 7     | 0.6   | LED       | 120   | AS INDICATED |

LIGHTING SCHEDULE NOTES:

1. ALTERNATE SHOP DRAWINGS SHALL BE ACCOMPANIED BY PHOTOMETRIC DRAWINGS. NO EXCEPTIONS.
2. THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE AND IS ALSO DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ALL ALTERNATIVE SELECTIONS MUST BE SUBMITTED FOR PRIOR APPROVAL TO TWELVE (12) DAYS PRIOR TO BID DATE.
3. ANY ALTERNATE FIXTURE MAY REQUIRE A WORKING SAMPLE PROVIDED TO THE OWNER FREE OF CHARGE FOR REVIEW.

FIXTURE SCHEDULE IS FOR INFORMATION ONLY. ALL LIGHT FIXTURES TO BE FURNISHED BY TENANT.

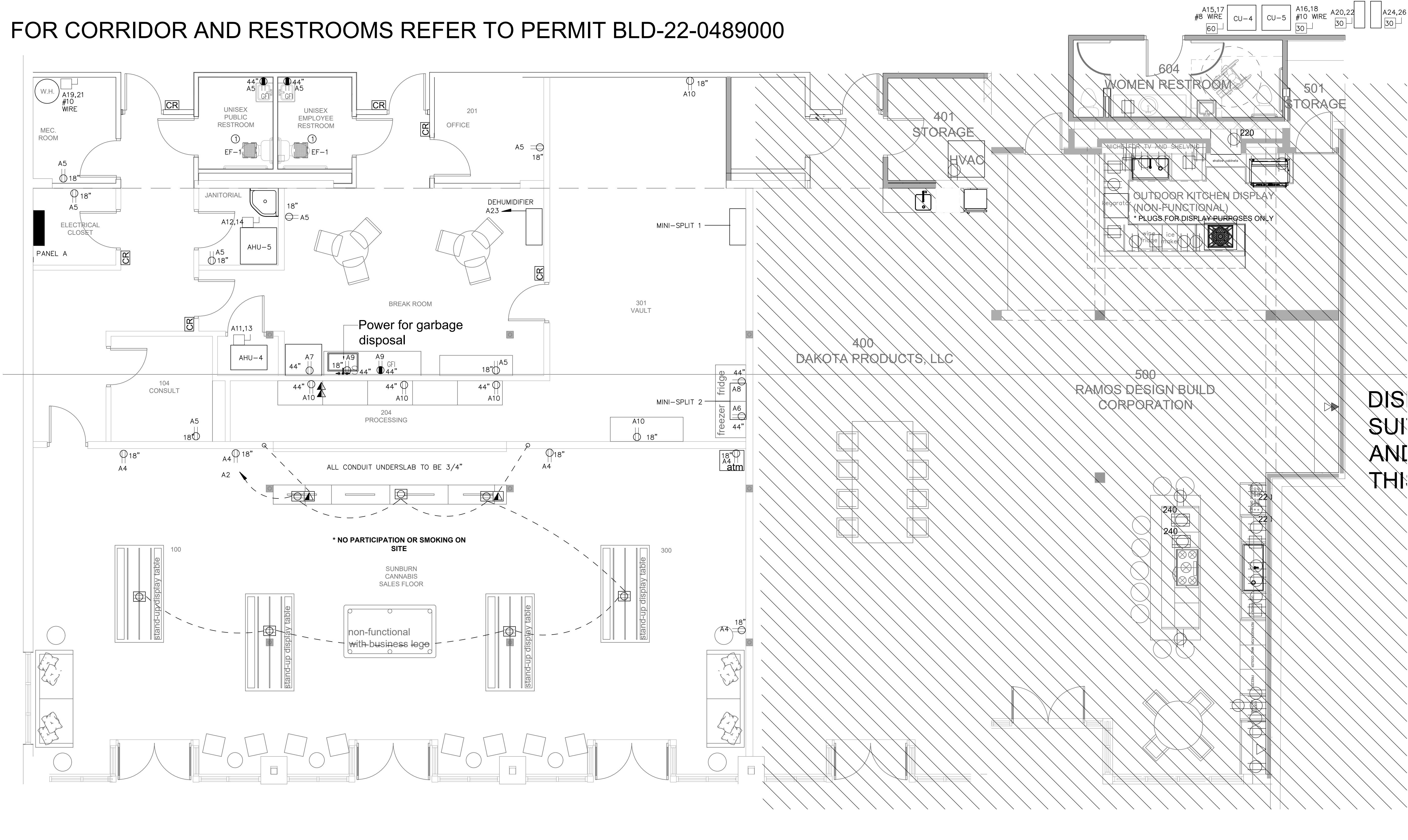
LIGHTING KEY NOTES

- 1 ALL EMERGENCY EXIT AND EGRESS LIGHTING TO BE CONNECTED AHEAD OF ALL LIGHTING CONTROLS.
- 2 THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED PER BLDG CODE SECTION 1008.1
- 3 EXHAUST FAN CONTROLLED ON/OFF WITH LIGHTS IN RESTROOM VIA OCCUPANCY SENSOR.

| No. | Date | Revision Description |
|-----|------|----------------------|
| 1   |      |                      |
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FOR CORRIDOR AND RESTROOMS REFER TO PERMIT BLD-22-0489000

APPROXIMATE LOCATION.  
COORDINATE EXACT LOCATION OF  
CONDENSING UNITS WITH  
MECHANICAL CONTRACTOR.



**POWER KEY NOTES**  
 ① CONNECT IN LINE FAN WITH ROOM LIGHTING CONTROL.

Current No: 05/22/23  
 Drawn: LK  
 Scale: 1/4" = 1'-0"  
 Sheet size: 24X36

| No. | Date | Revision Description |
|-----|------|----------------------|
| 1   |      |                      |
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| 3   |      |                      |
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| PANEL A                   |                      | 120/208 VOLT 1 PHASE<br>3 WIRE WITH GROUND |           |            |             |       |       |           |      |         |   | 400A MLO<br>NEMA 1<br>10K AIC |                         |          |       |
|---------------------------|----------------------|--|-----------|------------|-------------|-------|-------|-----------|------|---------|---|-------------------------------|-------------------------|----------|-------|
| NOTES                     | CKT. NO.             | DESCRIPTION                                | BREAKER   |            |             | A     |       | B         |      | BREAKER |   |                               | DESCRIPTION             | CKT. NO. | NOTES |
|                           |                      |  | TRIP      | POLE       | VOLT        |       |       | VOLT      | POLE | TRIP    |   |                               |                         |          |       |
| 1                         | 1                    | HALL, OFFICE, TOILET, VAULT LTG            | 20        | 1          | 120         | 770   | 1260  |           |      | 120     | 1 | 20                            | FLOOR RECEPTACLES       | 2        | 2     |
| 1                         | 3                    | SALES AREA LIGHTING                        | 20        | 1          | 120         |       |       | 400       | 900  | 120     | 1 | 20                            | SALES/ATM RECEPTACLES   | 4        | 2     |
| 2                         | 5                    | BREAK RM, TOILET, OFF REC                  | 20        | 1          | 120         | 1620  | 700   |           |      | 120     | 1 | 20                            | VAULT FREEZER           | 6        | 2     |
| 2                         | 7                    | BREAK ROOM REFRIGERATOR                    | 20        | 1          | 120         |       |       | 500       | 700  | 120     | 1 | 20                            | VSULT REFRIGERATOR      | 8        | 2     |
| 2                         | 9                    | DISPOSAL, GFI RECEPTACLE                   | 20        | 1          | 120         |       | 900   |           |      | 120     | 1 | 20                            | VAULT_PROCESSING RECEPT | 10       | 2     |
| 4                         | 11                   | AHU-4                                      | 15        | 2          | 208         |       |       | 873       | 510  | 208     | 2 | 15                            | AHU-5                   | 12       | 4     |
| 4                         | 13                   | *****                                      |           |            |             | 873   | 510   |           |      |         |   |                               | *****                   | 14       | 4     |
| 3                         | 15                   | CU-4                                       | 50        | 2          | 208         |       |       | 3525      | 1934 | 208     | 2 | 30                            | CU-5                    | 16       | 3     |
| 3                         | 17                   | *****                                      |           |            |             | 3525  | 1934  |           |      |         |   |                               | *****                   | 18       | 3     |
| 5                         | 19                   | WATER HEATER                               | 30        | 2          | 208         |       |       | 2250      | 1768 | 208     | 2 | 25                            | VAULT MINISPLIT 1       | 20       | 3     |
| 5                         | 21                   | *****                                      |           |            |             | 2250  | 1768  |           |      |         |   |                               | *****                   | 22       | 3     |
| 5                         | 23                   | DEHUMIDIFIER                               | 15        | 1          | 120         |       |       | 1000      | 1768 | 208     | 2 | 25                            | VAULT MINISPLIT 2       | 24       | 3     |
| 2                         | 25                   | SPARE                                      | 20        | 1          | 120         |       | 1768  |           |      |         |   |                               | *****                   | 26       | 3     |
|                           | 27                   | SPARE                                      | 20        | 1          | 120         |       |       |           |      | 120     | 1 | 20                            | SPARE                   | 28       |       |
|                           | 29                   | SPARE                                      | 20        | 1          | 120         |       |       |           |      | 120     | 1 | 20                            | SPARE                   | 30       |       |
|                           | 31                   | SPARE                                      | 20        | 1          | 120         |       |       |           |      | 120     | 1 | 20                            | SPARE                   | 32       |       |
|                           | 33                   | SPACE                                      | 20        | 1          |             |       |       |           |      |         | 1 | 20                            | SPACE                   | 34       |       |
|                           | 35                   | SPACE                                      | 20        | 1          |             |       |       |           |      |         | 1 | 20                            | SPACE                   | 36       |       |
|                           | 37                   | SPACE                                      | 20        | 1          |             |       |       |           |      |         | 1 | 20                            | SPACE                   | 38       |       |
|                           | 39                   | SPACE                                      | 20        | 1          |             |       |       |           |      |         | 1 | 20                            | SPACE                   | 40       |       |
|                           | 41                   | SPACE                                      | 20        | 1          |             |       |       |           |      |         | 1 | 20                            | SPACE                   | 42       |       |
| CONNECTED VA SYSTEM VOLTS |                      |  |           |            |             | 17878 | 16128 | NOTES ( ) |      |         |   |                               |                         |          |       |
| PHASE AMPS                |                      |  |           |            |             | 149   | 134   |           |      |         |   |                               |                         |          |       |
| NOTES                     | LOAD TYPE            | IS LARGER                                  | CONNECTED | NEC DEMAND | DEMAND LOAD |       |       |           |      |         |   |                               |                         |          |       |
| 1                         | LIGHTING             |  | 1170      | 1.25       | 1463 VA     |       |       |           |      |         |   |                               |                         |          |       |
| 2                         | RECEPTACLES          |  | 6580      | 1          | 6580 VA     |       |       |           |      |         |   |                               |                         |          |       |
| 3                         | AIR CONDITIONING     |  | 17990     | 1          | 17990 VA    |       |       |           |      |         |   |                               |                         |          |       |
| 4                         | HEATING              |  | 2766      | 0          | 0 VA        |       |       |           |      |         |   |                               |                         |          |       |
| 5                         | MISC. NON-CONTINUOUS |  | 5500      | 1          | 5500 VA     |       |       |           |      |         |   |                               |                         |          |       |
| 6                         | CONTINUOUS           |  | 0         | 1.25       | 0 VA        |       |       |           |      |         |   |                               |                         |          |       |
| 7                         | KITCHEN              |  | 0         | 0.65       | 0 VA        |       |       |           |      |         |   |                               |                         |          |       |
|                           |                      |  | TOTAL     |            | 31533 VA    |       |       |           |      |         |   |                               |                         |          |       |
| 120/208V, 1 PHASE         |                      |  |           |            | 152 AMPS    |       |       |           |      |         |   |                               |                         |          |       |

PANELBOARD, FEEDER, DISCONNECT, AND METER WERE INSTALLED UNDER ANOTHER PERMIT. PROVIDE NEW CIRCUIT BREAKERS AS INDICATED ON THE PANEL SCHEDULE.

### GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS PRIOR TO SUBMITTING A PROPOSAL.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE.
- ALL CONDUCTORS SHALL BE COPPER, #12 MINIMUM.
- ALL CONDUITS SHALL HAVE A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR.
- PROVIDE ALL NECESSARY PULL/JUNCTION BOXES, SUPPORTS AND MISC. ITEMS FOR A COMPLETE INSTALLATION.
- THE USE OF TYPE 'MC' CABLE MAY BE USED, IF IT MEETS THE REQUIREMENTS OF THE N.E.C.
- PROVIDE TYPE WRITTEN PANEL DIRECTORIES.
- ALL WIRING SHALL BE IN A CONTINUOUS CONDUIT SYSTEM.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILINGS.
- ELECTRICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
- SWITCHES AND RECEPTACLES SHALL BE 20 AMP COMMERCIAL GRADE AND IVORY IN COLOR. PROVIDE MATCHING COVER PLATES.
- CONCEAL ALL CONDUITS AND BOXES UNLESS OTHERWISE NOTED.
- COORDINATE ALL POWER REQUIREMENTS WITH LOCAL POWER COMPANY ENGINEER.
- PROVIDE AND MAINTAIN TEMPORARY POWER AND LIGHTING SYSTEM FOR DURATION OF THE PROJECT.
- EMT FITTINGS SHALL BE DIE CAST SET SCREW.
- MAKE FINAL CONNECTIONS TO EQUIPMENT WITH FLEXIBLE METAL CONDUIT. LIQUID TIGHT WHERE EXPOSED TO WEATHER.
- ALL LIGHTING CONTROLS TO MEET THE FBC ENERGY CODE 7TH EDITION 2020.

### F.B.C. ENERGY CODE 7TH EDITION 2020

- ALL LIGHTING CONTROLS TO MEET THE FBC ENERGY CODE 7TH EDITION 2020.
- VOLTAGE DROP CONSIDERATIONS FOR CUSTOMER OWNED SERVICE ENTRANCE AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN INCLUDED IN THE DESIGN OF THE ELECTRICAL SYSTEM AS REQUIRED BY THE 7TH EDITION (2020) FLORIDA ENERGY CONSERVATION CODE REFERENCE (C405.7.3.1 AND (C405.7.3.2)

F.B.C. ENERGY CODE VOLTAGE DROP NOTE FOR BRANCH CIRCUIT CONDUCTORS EVERY 75' IN LENGTH, THE WIRE SIZE SHALL BE INCREASED ONE WIRE SIZE TO MEET THE PROVISIONS OF NO MORE THAN 3% VOLTAGE DROP ON ANY BRANCH CIRCUIT.

### LEGEND

| SYMBOL | DESCRIPTION   | MOUNTING/COMMENTS   |
|--------|---|---|
|        | LED UNDERCABINET LIGHT FIXTURE  | SEE LIGHT FIXTURE SCHEDULE                                |
|        | LED STRIP FIXTURE   | SEE LIGHT FIXTURE SCHEDULE                                |
|        | LED LAY-IN FIXTURE  | SEE LIGHT FIXTURE SCHEDULE                                |
|        | LED LAY-IN FIXTURE  | SEE LIGHT FIXTURE SCHEDULE                                |
|        | LED EXIT LIGHT, SINGLE OR DOUBLE FACE, COMBO BATTERY BACK UP              | SEE LIGHT FIXTURE SCHEDULE                                |
|        | LED EMERGENCY LIGHT BATTERY BACK UP                                       | SEE LIGHT FIXTURE SCHEDULE                                |
|        | INCANDESCENT, HID OR FLUORESCENT WALL MOUNTED FIXTURE                     | SEE LIGHT FIXTURE SCHEDULE                                |
|        | INCANDESCENT, HID OR FLUORESCENT CEILING MOUNTED FIXTURE                  | SEE LIGHT FIXTURE SCHEDULE                                |
|        | INCANDESCENT, HID OR FLUORESCENT RECESSED FIXTURE                         | SEE LIGHT FIXTURE SCHEDULE                                |
|        | PANELBOARD 120/208V, 3PH  | SEE PANEL SCHEDULE  |
|        | PANELBOARD 277/480V, 3PH  | SEE PANEL SCHEDULE  |
|        | DISCONNECT SWITCH   | SEE PLANS FOR SIZE, TYPE AND VOLTAGE                      |
|        | SINGLE POLE SWITCH 120/277V, 20A  | 44" TO CENTER ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED |
|        | THREE WAY SWITCH 120/277V, 20A  | 44" TO CENTER ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED |
|        | WALL MOUNTED OCCUPANCY SWITCH 120/277V, 20A                               | 44" TO CENTER ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED |
|        | ACUITY nPODMA DX LOW VOLTAGE SWITCH/DIMMER OR EQUAL                       | 44" TO CENTER ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED |
|        | ACUITY nPP16D EFP LOW VOLTAGE POWER PACK WITH 0-10V DIMMING OR EQUAL      | REFER TO MANUFACTURER INSTALL INSTRUCTIONS                |
|        | ACUITY nPP20 PL RECEPTACLE LOAD CONTROL CONNECT TO POWER PACK WITH CATSE. | REFER TO MANUFACTURER INSTALL INSTRUCTIONS                |
|        | CEILING MOUNTED MOTION DETECTOR WATTSTOPPER OR EQUAL                      | CEILING MOUNT   |
|        | DUPLEX RECEPTACLE 120V, 20A   | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | DOUBLE DUPLEX RECEPTACLE 120V, 20A  | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | GROUND FAULT RECEPTACLE 120V, 20A (WP=WEATHER PROOF)                      | ABOVE COUNTER TOP UNLESS OTHERWISE NOTED                  |
|        | SPECIAL PURPOSE RECEPTACLE 208V, AMPERAGE AS NOTED                        | VERIFY MOUNTING HEIGHT AND NEMA CONFIGURATION             |
|        | SINGLE OR 2 GANG DUPLEX/DATA/TELE FLOOR BOX HUBBELL OR EQUAL              | SEE PLANS FOR TYPE  |
|        | CONTROLLED RECEPTACLE. LEVITON 16252-1PW OR EQUAL.                        | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | CONTROLLED QUAD RECEPTACLE. LEVITON 16252-1PW OR EQUAL.                   | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | JUNCTION BOX  | VERIFY REQUIREMENTS                                       |
|        | CONTROL RELAY   | SEE PLANS FOR TYPE  |
|        | TELEPHONE OUTLET 3/4" CONDUIT TO ABOVE CEILING                            | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | TELEPHONE/DATA OUTLET 3/4" CONDUIT TO ABOVE CEILING                       | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | CATV OUTLET 3/4" CONDUIT TO ABOVE CEILING                                 | 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED           |
|        | EXHAUST FAN   | CEILING MOUNT   |

NOTE: NOT ALL ITEMS USED.

| No. | Date | Revision Description |
|-----|------|----------------------|
| 1   |      |                      |
| 2   |      |                      |
| 3   |      |                      |
| 4   |      |                      |

# ELECTRICAL SPECIFICATIONS:

## 1. GENERAL

- PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE SYSTEM AS OUTLINED IN THE CONTRACT DRAWINGS AND THESE SPECIFICATIONS.
- NOTE THAT DRAWINGS ARE DIAGRAMMATIC ONLY AND INTENDED TO SHOW THE GENERAL ARRANGEMENT OF SYSTEMS, NOT EVERY MINUTE DETAIL.
- DO NOT SCALE PLANS.
- PROVIDE ALL NECESSARY FITTINGS, BOXES, TRANSITIONS, CONNECTORS, ETC. WHETHER SHOWN OR NOT ON PLANS.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- THESE PLANS REPRESENT THE DESIGN INTENT BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ANY SUBSTANTIAL MODIFICATIONS OR ALTERATIONS MADE DURING THE CONSTRUCTION PHASE SHALL BE REPORTED TO THE ENGINEER PRIOR TO WORK. MODIFICATIONS MADE WITHOUT THE ENGINEER'S WRITTEN APPROVAL SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- IN CASE OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, FIELD CONDITIONS, CODES, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFER ALL SUCH MATTERS TO THE ENGINEER IN WRITING IMMEDIATELY FOR RESOLUTION PRIOR TO EXECUTING ANY WORK. ANY WORK PERFORMED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL CONFORM TO THE FOLLOWING CODES (AS APPLICABLE) AS WELL AS ALL LOCAL REGULATIONS, ORDINANCES, AND AMENDMENTS :
  - 2020 FLORIDA BUILDING CODE (7TH EDITION)
  - 2017 NFPA-70 NATIONAL ELECTRICAL CODE
  - 2020 FLORIDA BUILDING CODE FIRE CODE

## 2. SCOPE OF WORK

PROVIDE NEW ELECTRICAL DEVICES AND CONNECT TO EXISTING SYSTEM. PROVIDE NEW LIGHTING, RECEPTACLES, SWITCHES, ETC. AND CONNECT AS SHOWN ON PLANS.

## 3. ITEMS FURNISHED BY CONTRACTOR

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, AND ACCESSORIES NECESSARY TO MAKE A COMPLETE INSTALLATION. ALL EQUIPMENT SHALL BE STORED IN A SAFE, DRY PLACE IN THE MANUFACTURER'S ORIGINAL PACKAGING UNTIL READY FOR USE. THE OWNER SHALL NOT BE RESPONSIBLE FOR PROVIDING ANY PART OF THE PROJECT, UNLESS SPECIFICALLY NOTED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYING ALL REQUIRED FEES, OBTAINING ALL PERMITS, AND ARRANGING FOR ALL INSPECTIONS, INCLUDING COORDINATION WITH AND SATISFYING ALL REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY(IES) AS MAY BE REQUIRED TO EXECUTE THIS SCOPE OF WORK.

## 4. WORK IN EXISTING BUILDINGS

- DO NOT USE POWDER DRIVEN FASTENERS OF ANY TYPE.
- ALL ITEMS REMOVED AND NOT RE-USED SHALL BE TURNED OVER TO THE OWNER. CONTRACTOR SHALL REMOVE ANY UNSATISFACTORY ITEMS FROM THE PROJECT SITE.
- SOME EXISTING ITEMS TO REMAIN WITHOUT WORK ARE SHOWN FOR CLARITY OR REFERENCE ONLY. NOTE THAT ADDITIONAL ITEMS WITHOUT WORK MAY ALSO BE PRESENT.
- DRAWINGS OF EXISTING SYSTEMS ARE BASED ON EXISTING DOCUMENTS AND FIELD CONDITIONS, SOME OF WHICH MAY BE UNVERIFIED. PRIOR TO SUBMITTING A BID, CONTRACTOR SHALL STUDY THE PLANS AND VISIT THE PROJECT SITE IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS. ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS WHICH COULD SIGNIFICANTLY IMPACT THE PROJECT BUDGET OR SCHEDULE MUST BE REPORTED TO THE ENGINEER IN WRITING IMMEDIATELY. FAILURE TO DO SO WILL NOT BE SUFFICIENT CAUSE FOR DELAYS OR CHANGES LATER IN THE PROJECT. CHANGE ORDERS RESULTING FROM FAILURE TO PROPERLY INVESTIGATE EXISTING FIELD CONDITIONS WILL NOT BE ACCEPTED. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- MODIFICATIONS TO EXISTING SYSTEMS NECESSARY TO CONNECT TO NEW WORK SHALL BE CONSIDERED TO BE PART OF THE BASIC WORK OF THIS CONTRACT.
- COORDINATE ALL WORK SCHEDULES WITH THE OWNER TO MINIMIZE DISRUPTIONS TO EXISTING SYSTEMS OUTSIDE THIS SCOPE OF WORK.

## 5. COORDINATION

ALL WORK ON THIS PROJECT SHALL BE COORDINATED WITH THE OWNER AND ALL OTHER TRADES PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIALS. CONTRACTOR SHALL REVIEW PLANS OF ALL DISCIPLINES INVOLVED AND ADVISE THE ARCHITECT IN WRITING OF ANY CONFLICTS, CODE OR SAFETY ISSUES THAT MAY EXIST PRIOR TO ANY FABRICATION OR ORDERING OF EQUIPMENT. RESOLUTION OF SUCH CONFLICTS WHICH ARE NOT REPORTED PRIOR TO CONSTRUCTION SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND CHANGE ORDER PROPOSALS FOR SUCH WORK WILL NOT BE ACCEPTED. PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICTS WITH STRUCTURE, FINISHES, AND WORK OF OTHERS. CONTRACTOR SHALL PROVIDE ALL CORE PENETRATIONS AND PATCHING FOR FLOOR PENETRATIONS.

## 6. DEVICE LOCATIONS

- INSTALL ALL DEVICES IN ACCESSIBLE LOCATIONS, EXCEPT AS SPECIFICALLY NOTED OR PROHIBITED BY NEC.
- PROVIDE MIN. 18x18 INCH PAINTED ALUMINUM ACCESS DOORS WITH FULL HINGE AND KEY, FOR ACCESS TO ALL ELECTRICAL DEVICES, PULL BOXES, JUNCTION BOXES, AND ACCESSORIES IN PLASTER, DRYWALL, OR INACCESSIBLE CEILINGS, OR IN WALLS. GROUP DEVICES AT A SINGLE LOCATION, AS AVAILABLE.
- ACCESS DOORS IN RATED WALLS OR CEILINGS SHALL HAVE A RATING AT LEAST EQUAL TO THE RATING OF THE WALL OR CEILING.
- ALL DEVICES, RACEWAYS, ETC. WHICH ARE EXPOSED SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE OR AS DIRECTED BY THE ARCHITECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 1'-0" ABOVE THE BASE FLOOD ELEVATION.

## 7. EQUIPMENT GENERAL

ALL EQUIPMENT OF EACH TYPE SHALL BE BY ONE MANUFACTURER AND SHALL HAVE CHARACTERISTICS AS LISTED IN THE EQUIPMENT SCHEDULES. ALL EQUIPMENT SHALL BE UL LISTED, NO EXCEPTIONS ! SUBSTITUTIONS ARE ACCEPTABLE PROVIDED THAT THE SUBSTITUTED EQUIPMENT HAS EQUIVALENT CHARACTERISTICS AS THAT SCHEDULED AND IS PROVIDED BY AN ACCEPTABLE MANUFACTURER AS LISTED FOR THAT EQUIPMENT TYPE. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR ALL EQUIPMENT TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING. SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHT, VOLTAGE, AMPERAGE, HORSEPOWER, POWER FACTOR, INTERRUPTING CAPACITY, ETC.

## 8. CONDUCTORS

- PROVIDE ONLY DUAL RATED THWN-2/THHN-2 COPPER CONDUCTORS. MINIMUM SIZE IS NUMBER 12 AWG.
- CONDUCTORS SHALL HAVE COLORED INSULATION FOR IDENTIFICATION PURPOSES AS FOLLOWS:

|               |                |
|---------------|----------------|
| 240/208/120V  | 480/277V       |
| PHASE A BLACK | PHASE A BROWN  |
| PHASE B RED   | PHASE B ORANGE |
| PHASE C BLUE  | PHASE C YELLOW |
| NEUTRAL WHITE | NEUTRAL GRAY   |
| GROUND GREEN  | GROUND GREEN   |

- GROUNDING CONDUCTORS WHICH CARRY OVER 250V TO GROUND SHALL BE TAGGED WITH VOLTAGE AT EACH TERMINATION POINT.
- DO NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN SINGLE RACEWAY (NOT INCLUDING NEUTRAL) WHICH WILL REQUIRE NEC TABLE 310-16 NOTE 8 DERATING.
- PHASE AND GROUNDING CONDUCTOR SIZES SHALL BE INCREASED AS NECESSARY TO ACCOUNT FOR VOLTAGE DROP.

## 9. RACEWAYS

- INSTALL ALL WIRING ABOVE GROUND IN METALLIC CONDUIT (EMT INDOORS, RGS OUTDOORS OR IN EXPOSED LOCATIONS).
- ALL EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO WALLS OR CEILINGS AND SHALL BE PAINTED TO MATCH ADJACENT SURFACES OR AS DIRECTED BY THE OWNER.
- WHERE MULTIPLE RACEWAYS ARE RUN EXPOSED, RUN ALL RACEWAYS SQUARE AND PARALLEL IN A NEAT AND ORDERLY MANNER.
- MAKE FINAL CONNECTIONS (NOT MORE THAN 6'-0" LONG) TO ALL EQUIPMENT WITH FLEXIBLE METALLIC CONDUIT (DRY LOCATIONS) OR LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (DAMP OR WET LOCATIONS).
- INSTALL ALL WIRING BELOW GROUND IN RIGID NON-METALLIC CONDUIT (SCHEDULE 40 PVC). ALL EXTERIOR NONMETALLIC CONDUITS SHALL BE UV RESISTANT. ALL CONDUITS RUN BELOW GROUND SHALL BE INSTALLED ACCORDING TO NEC300-5.
- TYPE MC CABLE MAY BE USED AS AN ALTERNATIVE TO CONDUCTORS IN METAL RACEWAY IN DRY INDOOR LOCATIONS, PROVIDED IT IS INSTALLED PER NEC AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- METALLIC CONDUITS SHALL NOT BE USED AS GROUNDING CONDUCTORS. PROVIDE A SEPARATE GROUNDING CONDUCTOR IN ALL METALLIC CONDUITS, BONDED AT BOTH ENDS PER NEC.

## 10. GROUNDING

- ALL ELECTRICAL SYSTEMS SHALL BE PROPERLY GROUNDED PER NEC 250.
- EXPOSED GROUNDING ELECTRODE CONDUCTORS SHALL BE PROTECTED BY RIGID NONMETALLIC CONDUITS, MIN SIZE = 3/4".
- PROVIDE GROUNDING ELECTRODE CONDUCTORS TO DRIVEN GROUND RODS AT THE BASE OF ALL LIGHT POLES, REMOTE BUILDINGS, OR REMOTE EQUIPMENT.
- ALL METAL ITEMS OF THE ELECTRICAL SYSTEM INCLUDING RACEWAYS, BOXES, FIXTURES, ETC. SHALL BE BONDED AND PROPERLY GROUNDED.

## 11. SWITCHBOARDS AND PANEL BOARDS

- PROVIDE SWITCHBOARDS AND PANEL BOARDS, SIZE AND ARRANGEMENT AS INDICATED ON PLANS AND SCHEDULES.
- MOUNT PANEL BOARDS NOT MORE THAN 48" A.F.F. TO CENTER.
- ENCLOSURES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED (NEMA 1 INDOORS, NEMA 3R OUTDOORS, ETC.)
- PROVIDE A TYPED WRITTEN PANEL SCHEDULE IDENTIFYING THE FUNCTION OF ALL CIRCUIT BREAKERS IN A CLEAR PLASTIC SLEEVE PERMANENTLY ATTACHED TO THE PANEL BOARD COVER.
- ALL SWITCHBOARDS AND PANEL BOARDS SHALL HAVE A THERMOPLASTIC IDENTIFYING NAMEPLATE PERMANENTLY AFFIXED TO THE FRONT OR COVER.
- PROVIDE ONE 1" EMPTY CONDUIT FROM PANEL TO 6" ABOVE CEILING FOR EVERY (3) SPARES OR SPACES.
- PANEL BOARDS AND SWITCHBOARDS BY: SQUARE D, CUTLER HAMMER, OR GE.

## 12. CIRCUIT BREAKERS

- ALL CIRCUIT BREAKERS SHALL BE BY A SINGLE MANUFACTURER, WITH SAME STYLE AND WITHSTAND RATING TO MATCH THE PANEL IN WHICH THEY ARE INSTALLED.
- PROVIDE MULTIPLE POLE CIRCUIT BREAKERS FOR MULTIPLE POLE CIRCUITS. HANDLE TIES ARE NOT PERMITTED.
- PROVIDE HACR TYPE CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT AND WATER HEATERS.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER BREAKERS FOR ALL OUTDOOR, BATHROOM, AND KITCHEN BRANCH CIRCUITS WHICH DO NOT UTILIZE GFCI RECEPTACLES, OR AS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- NOT USED.
- NOT USED.
- PROVIDE INVERSE TIME CIRCUIT BREAKERS FOR MOTORS UNLESS SPECIFIED OTHERWISE.
- CIRCUIT BREAKERS SHALL BE PROVIDED WITH INDICATING ON/OFF HANDLES.
- CIRCUIT BREAKERS FOR FIRE ALARMS SHALL BE LOCKABLE.
- CIRCUIT BREAKERS BY: SQUARE D, CUTLER HAMMER, OR GE.

## 13. DEVICES

- PROVIDE GALVANIZED STEEL BOXES FOR ALL DEVICES IN EXPOSED LOCATIONS OR RECESSED INTO RATED WALLS.
- PROVIDE THERMOPLASTIC OR GALVANIZED STEEL BOXES FOR ALL DEVICES TO BE RECESSED INTO NON-RATED WALLS.
- FINISH OF ALL DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY THE OWNER IN WRITING PRIOR TO ORDERING.
- ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE.
- ALL RECEPTACLES SHALL BE 20 AMP, 120 VOLT RATED, COMMERCIAL GRADE.
- PROVIDE DISCONNECT SWITCHES (WITH OR WITHOUT FUSES AS SPECIFIED) IN ENCLOSURES SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED (NEMA 1 INDOORS, NEMA 3R OUTDOORS & AT WATER HEATER, ETC.)
- ALL SWITCHES AND RECEPTACLES BY LEVITON, GE, OR EQUIVALENT.
- PROVIDE GFCI RECEPTACLES IN ALL KITCHENS, BATHROOMS, GARAGES, OUTSIDE, OR WHEREVER ELSE SHOWN ON DRAWINGS. LABEL ALL DEVICES DOWNSTREAM OF GFCI DEVICE AS "GFCI PROTECTED". PROVIDE AT LEAST ONE DUPLEX GFCI PROTECTED RECEPTACLE IN A WEATHERPROOF ENCLOSURE WITHIN TWENTY FIVE (25) FEET OF ALL ROOF OR GRADE MOUNTED EXTERIOR HVAC EQUIPMENT.
- FOR GFCI RECEPTACLES NOT ON A DEDICATED BRANCH CIRCUIT (SUCH AS OUTDOOR RECEPTACLES CONNECTED TO THE NEAREST INTERIOR CIRCUIT), MAKE EVERY ATTEMPT TO LOCATE THE GFCI RECEPTACLE AT THE END OF THE CIRCUIT RUN SO AS TO MINIMIZE THE POSSIBILITY OF CAUSING NUISANCE POWER LOSS TO OTHER DEVICES WHEN THE GFCI DEVICE TRIPS.

## 14. LIGHTING

- ALL LIGHT FIXTURES SHALL BE THOSE DESCRIBED IN THE LIGHTING FIXTURE SCHEDULE OR THEIR EQUIVALENT AS APPROVED BY THE ENGINEER PRIOR TO ORDERING. IF ALTERNATE FIXTURES ARE USED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THEIR INSTALLATION DETAILS WITH ALL OTHER TRADES WITH REGARD TO SPACE REQUIRED, WIRING, POWER CONSUMPTION, ETC.
- LIGHTING BRANCH CIRCUITS SHALL NOT BE LOADED TO MORE THAN 80% OF THE CIRCUIT BREAKER AMPACITY.
- ALL LIGHT FIXTURES INSTALLED IN DAMP, WET, OR HAZARDOUS (CLASSIFIED) LOCATIONS SHALL BE LISTED FOR SUCH USE.
- INCANDESCENT LAMPS SHALL NOT BE USED EXCEPT FOR DIMMING PURPOSES OR AS OTHERWISE STATED ON PLANS OR PERMITTED BY THE AUTHORITY HAVING JURISDICTION.
- ALL FLUORESCENT OR HID LIGHT FIXTURES SHALL BE FUSED WITH ELECTRONIC BALLAST AS REQUIRED TO MEET THE SWITCHING REQUIREMENTS DESCRIBED ELSEWHERE IN THESE DOCUMENTS OR THE AUTHORITY HAVING JURISDICTION. PROVIDE MULTIPLE BALLASTS WHERE REQUIRED TO PROVIDE MULTIPLE LIGHTING LEVELS TO COMPLY WITH APPLICABLE ENERGY CODES.
- INTERIOR LIGHTING IN ALL BUILDINGS LARGER THAN 5,000 SQUARE FEET SHALL BE PROVIDED WITH AUTOMATIC CONTROLS. CONTROLS SHALL CONSIST OF A CENTRAL TIME-OF-DAY SCHEDULING CONTROLLER OR OCCUPANCY SENSORS LOCATED IN EACH SPACE. OCCUPANCY SENSORS SHALL BE LOCATED SO THE OCCUPANT CAN SEE THE CONTROLLED LIGHTING AND SHALL BE CAPABLE OF A 4 HOUR OVERRIDE. LIGHTING CONTROL ZONES SHALL NOT EXCEED 2,500 SQUARE FEET.
- PROVIDE TIME CLOCKS OR NORTH FACING PHOTOCELLS TO CONTROL ALL EXTERIOR LIGHTING CIRCUITS AUTOMATICALLY. PROVIDE LIGHTING CONTACTORS AS REQUIRED.
- ALL EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL NOT BE SWITCHED AND SHALL HAVE BATTERY BACKUP OR BE CONNECTED TO THE EMERGENCY POWER SYSTEM.

## 15. WARRANTIES AND MAINTENANCE

- ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED, LUBRICATED, CLEANED, AND PLACED IN GOOD OPERATING CONDITION BY THE CONTRACTOR. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER AND THE CONTRACTOR SHALL REPAIR ANY SUCH DEFECTS AT NO COST TO THE OWNER. ALL EQUIPMENT INCLUDED IN THE PROJECT SHALL BE COVERED BY THE MANUFACTURER'S WARRANTY FOR THE DURATION OF THAT WARRANTY. COPIES OF ALL MANUFACTURER'S WARRANTIES AND CONTRACTOR WARRANTIES SHALL BE PROVIDED TO THE OWNER AT FINAL ACCEPTANCE.
- CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE AND REVIEW ALL OPERATIONS AND MAINTENANCE OF ALL SYSTEMS. CONTRACTOR SHALL PROVIDE THE OWNER WITH BOUND COPIES OF ALL OPERATION AND MAINTENANCE MANUALS INCLUDING PARTS LISTS, MAINTENANCE SCHEDULES, ETC.
- THE CONTRACTOR SHALL CONTINUALLY RECORD ANY AND ALL DEVIATIONS TO THE CONTRACT DOCUMENTS MADE DURING CONSTRUCTION AND PROVIDE A COMPLETE SET OF THESE RECORD DRAWINGS TO THE OWNER WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER TO PROVIDE SIGNED AND SEALED RECORD DRAWINGS.

## 16. TESTING

- AT THE COMPLETION OF THE PROJECT, TEST ALL ELECTRICAL EQUIPMENT AND DEVICES FOR PROPER OPERATION. TEST FOR GROUNDS AND SHORTS. REPORT ALL RESULTS TO THE ARCHITECT IN WRITING. REPLACE ANY DEFECTIVE DEVICES OR EQUIPMENT.
- TEST ALL FIRE ALARMS, GENERATORS, AND OTHER LIFE SAFETY EQUIPMENT IN THE PRESENCE OF THE ENGINEER AND THE FIRE OFFICIAL TO DEMONSTRATE OPERATION. MAKE ANY MODIFICATIONS NECESSARY AS REQUIRED BY THE FIRE OFFICIAL AND REPAIR OR REPLACE ANY DEFECTIVE ITEMS AS NECESSARY.



SUNBURN CANNABIS  
 2405 S. MacDill Avenue - Suites 100, 200 and 300  
 LAYOUT STUDIES

|            |              |
|------------|--------------|
| Drawn      | LK           |
| Scale      | 1/4" = 1'-0" |
| Sheet size | 24X36        |

| Revisions |      |                      |
|-----------|------|----------------------|
| No.       | Date | Revision Description |
| 1         |      |                      |
| 2         |      |                      |
| 3         |      |                      |
| 4         |      |                      |

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SPECIFICATIONS

E4.0



1956 LAGO VISTA BLVD.  
PALM HARBOR, FLORIDA 34685

PH: 727.647.4000  
www.cdcbuilds.com

ENGINEER STATEMENT:  
TO THE BEST OF THE  
ENGINEER'S KNOWLEDGE AND  
BELIEF, THE PLANS AND  
SPECIFICATIONS COMPLY WITH  
THE FLORIDA BUILDING CODE AS  
REFERENCED WITHIN THE PLANS

STEPHEN G. THOMPSON AIA, PE  
PE 30638/AIA 30061180

REVISIONS

RETAIL / MERCANTILE  
OFFICE

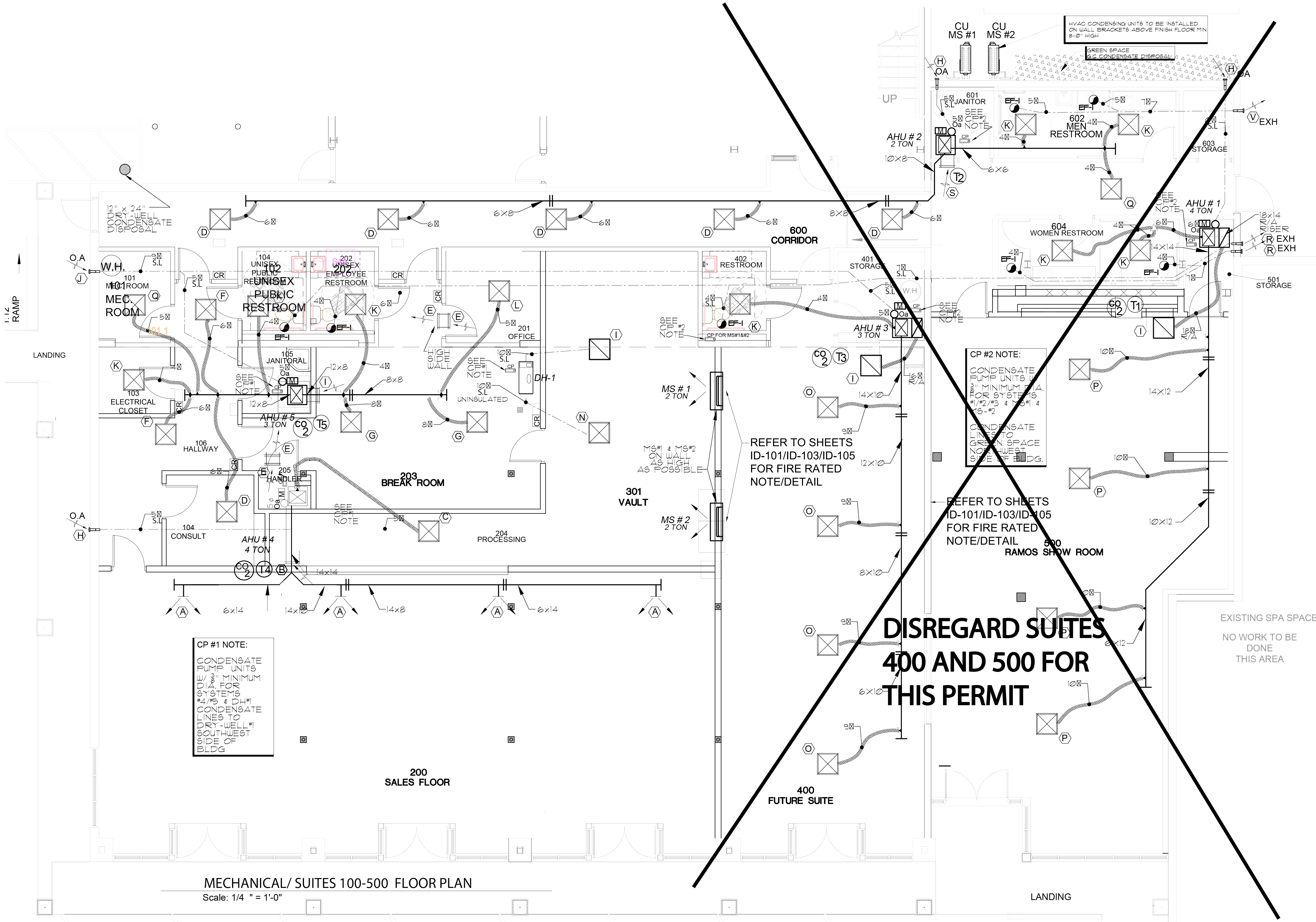
2409 S. MacDill Ave  
Tampa FL 33629

DRAWN: EGS  
CHECKED: SJT  
DATE: December 5, 2022  
June 15, 2023  
SCALE: AS NOTED  
JOB NO.:

PLANS COMPLY WITH FLORIDA BUILDING  
CODE 7TH EDITION (2020) AND THE  
FBC - MECHANICAL 7TH EDITION (2020)

SHEET #:

M-1



CP #1 NOTE:  
CONDENSATE  
PUMP UNITS  
W/ 3/4" MINIMUM  
DIA. FOR  
SYSTEMS  
#4/#5 & DH#1  
CONDENSATE  
LINES TO  
DRY-WELL #1  
SOUTHWEST  
SIDE OF  
BLDG.

CP #2 NOTE:  
CONDENSATE  
PUMP UNITS  
W/ 3/4" MINIMUM  
DIA. FOR SYSTEMS  
#1/#2/#3 & #5/#4  
(S-#2)  
CONDENSATE  
LINES TO  
GREEN SPACE  
NO. 100 W/ 1/2"  
SIDE OF BLDG.

**DISREGARD SUITES  
400 AND 500 FOR  
THIS PERMIT**

MECHANICAL/ SUITES 100-500 FLOOR PLAN

Scale: 1/4" = 1'-0"

**VENTILATION RATES FBC TABLE 403.3.1.1**  
**Ashrae 62.1 - 2016 Calculation**

| ZONE / AREA            | S.F             | CFM/FT <sup>2</sup> | PEOPLE  | TOTAL CFM      |
|------------------------|-----------------|---------------------|---|----------------|
| 500 RAMOS SHOW ROOM    | 1,526           | X 0.06 / 92         | 14 ADULT<br>CFM/PERSON X 5<br>70                                      | 162            |
| 600 CORRIDOR RESTROOM  | 822             |                     |   | 0              |
| 400 FUTURE SUITE       | 1,093           | X 0.06 / 66         | 8 ADULT<br>CFM/PERSON X 5<br>40                                       | 106            |
| 300 VAULT              | 596             |                     | 1 ADULT<br>CFM/PERSON X 5<br>5  | 0              |
| 200 SALES FLOOR        | 1,610           | X 0.12 / 194        | 22 ADULT<br>CFM/PERSON X 7.5<br>165                                   | 359            |
| 100 CONSULT BREAK ROOM | 1,040           | X 0.12 / 63         | 8 ADULT<br>CFM/PERSON X 5<br>40                                       | 103            |
| <b>TOTAL</b>           | <b>5,865 SF</b> |                     | <b>TOTAL CFM REQ'</b>   | <b>780 CFM</b> |
|                        |                 |                     | <b>TOTAL CFM PROVIDED</b>   | <b>+ 819</b>   |
|                        |                 |                     | <b>MAXIMUM EXHAUST (TX10)</b>   | <b>- 490</b>   |
|                        |                 |                     | <b>WITH MAXIMUM EXHAUST STRUCTURE REMAINS UNDER POSITIVE PRESSURE</b> | <b>+ 329</b>   |

**EXHAUST FAN SCHEDULE**

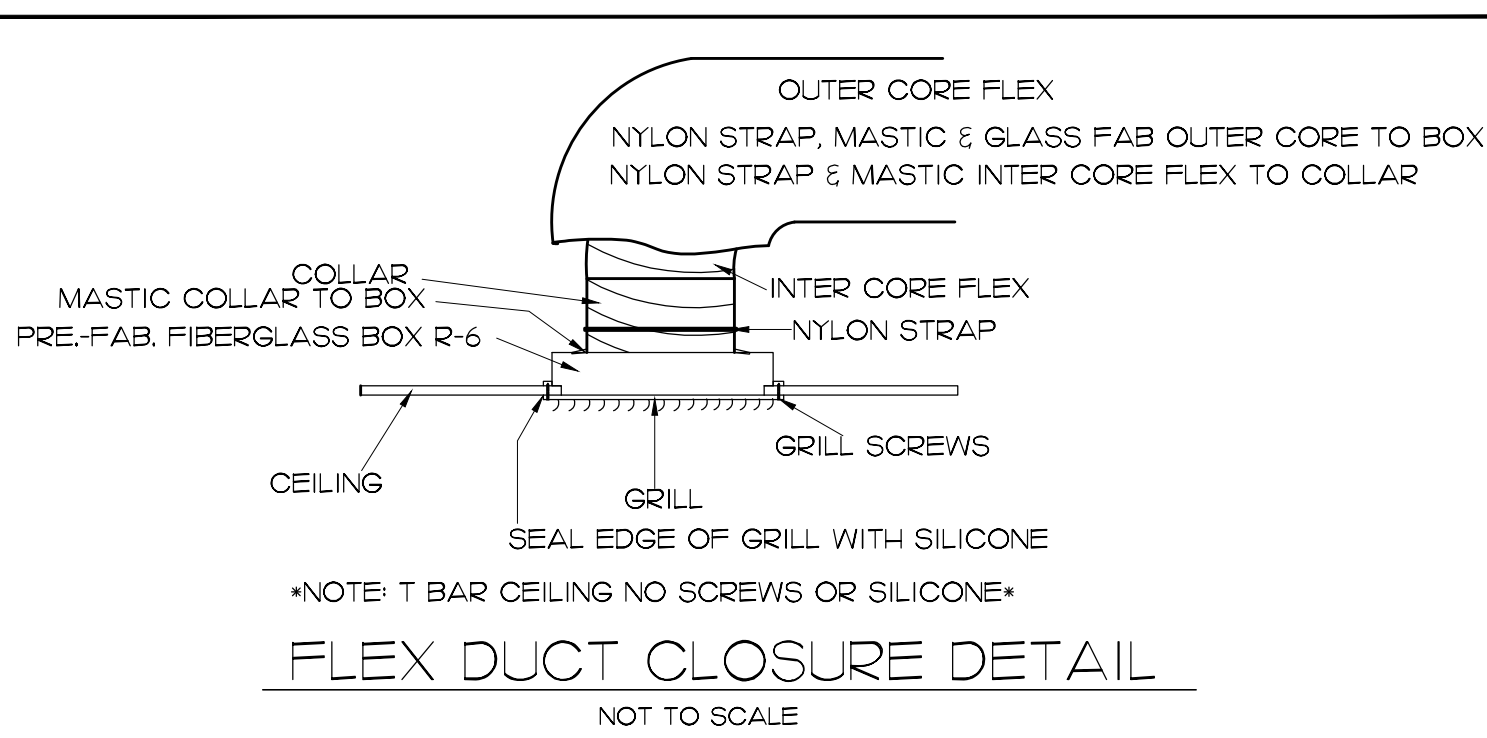
| MARK | AREA     | EXHAUST CFM | ESP INCHES WG | SWITCH WITH | ELECTRIC | AMPS | DUCT SIZE | MODEL          |
|------|----------|-------------|---------------|-------------|----------|------|-----------|----------------|
| EF-1 | RESTROOM | 80          | 0.12          | LIGHT       | 115/160  | 0.32 | 4"rd      | AIRKING #BFC90 |

NOTES:  
 1. USE METAL DUCT, "THERMOFLEX" IS ACCEPTABLE OR S.L.  
 2. AIRKING FAN BFC-090 HAS INTEGRAL BDD (REQUIRED)

**FAN SCHEDULE**

| MARK | AREA         | MAXIMUM CFM 3-SPEED     | ESP INCHES WG | SWITCH WITH | ELECTRIC | AMPS    | FAN DIA. | MODEL        |
|------|--------------|-------------------------|---------------|-------------|----------|---------|----------|--------------|
| WF-1 | WINE STORAGE | 1,450<br>6,090<br>3,450 | FREE AIR      | WALL SW     | 115/160  | 22 H.S. | 30       | DAYTON 2RDZ9 |

NOTES:  
 1. DAYTON BRAND, WALL MOUNTED, 3 SPEED OSCILLATING  
 2. OSHA COMPLAINT GUARDS  
 3. BALL BEARING



**EQUIPMENT SCHEDULE SPLIT SYSTEMS**

**INDOOR UNIT**

| MARK    | AREA                 | SUPPLY CFM | O/A CFM | ESP  | AMPACITY | BRKR/POLES | H X W X D           | WEIGHT | REMARKS      |
|---------|----------------------|------------|---------|------|----------|------------|---------------------|--------|--------------|
| AHU # 1 | RAMOS SHOW ROOM 500  | 1,450      | 175     | 0.50 | 8.4      | 15A/2P     | 55" X 21.5" X 22"   | 196    | CBA25UHV-048 |
| AHU # 2 | CORRIDOR MEN'S RR    | 690        | 60      | 0.35 | 4.9      | 15A/2P     | 45.5" X 18.5" X 22" | 136    | CBA25UHV-024 |
| AHU # 3 | FUTURE SUITE 400     | 1,050      | 110     | 0.40 | 4.9      | 15A/2P     | 54" X 21.5" X 22"   | 169    | CBA25UHV-036 |
| AHU # 4 | SALES FLOOR 200      | 1,450      | 359     | 0.40 | 8.4      | 15A/2P     | 55" X 21.5" X 22"   | 196    | CBA25UHV-048 |
| AHU # 5 | BREAK ROOM/CONSULTAN | 1,050      | 115     | 0.45 | 4.9      | 15A/2P     | 54" X 21.5" X 22"   | 169    | CBA25UHV-036 |

Notes:  
 1. LENNOX NO AUX. HEATER  
 2. PROVIDE AUX DRAIN PAN, MIN 2" DEEP W/FLOAT SWITCH TO SHUT DOWN SYSTEM.  
 3. PROVIDE 4" PLEATED MEDIA MERV 11 IN EACH AIR HANDLER UNIT.  
 4. AHU ABOVE 300 CFM O/A USE MOTORIZED DAMPER  
 5. AHU BELOW 300 CFM O/A USE BAROMETRIC DAMPER

**OUTDOOR UNIT**

| MARK  | CAPACITY NOM | HT. MAX / HS | SEER <sub>2</sub> / HSPF <sub>2</sub> | HTG CAP. MBH | REFG LINES LG + SUC | MCA  | BRKR/POLES | H X W X L       | WEIGHT | REMARKS     |
|-------|--------------|--------------|---------------------------------------|--------------|---------------------|------|------------|-----------------|--------|-------------|
| CU# 1 | 4 TON HP     | 47.0 / 34.8  | 15.8 / 9.8                            | 49.5         | 3/8" + 7/8"         | 33.9 | 50A/2P     | 37" X 32" X 32" | 222    | ML14XPI-048 |
| CU# 2 | 2 TON HP     | 23.6 / 17.4  | 15.8 / 8.0                            | 22.0         | 3/8" + 3/4"         | 15.5 | 25A/2P     | 43" X 28" X 28" | 215    | ML14XPI-024 |
| CU# 3 | 3 TON HP     | 34.2 / 25.3  | 15.0 / 8.5                            | 30.8         | 3/8" + 7/8"         | 18.6 | 30A/2P     | 37" X 28" X 28" | 272    | ML14XPI-036 |
| CU# 4 | 4 TON HP     | 47.0 / 34.8  | 15.8 / 9.8                            | 49.5         | 3/8" + 7/8"         | 33.9 | 50A/2P     | 37" X 32" X 32" | 222    | ML14XPI-048 |
| CU# 5 | 3 TON HP     | 34.2 / 25.3  | 15.0 / 8.5                            | 30.8         | 3/8" + 7/8"         | 18.6 | 30A/2P     | 37" X 28" X 28" | 272    | ML14XPI-036 |

Notes:  
 1. ASSUME ELECTRIC POWER SUPPLY SHOWN 200/160  
 2. CAPACITY SHOWN @95° OD AMB. CONDENSING TEMP.  
 3. INSTALL HURRICANE TIE DOWN- SEE DETAIL THIS SHT.  
 4. REFRIGERANT R410A  
 5. HEATING ARI STD CONDITIONS 47.0  
 6. LENNOX MODEL SHOWN

**EQUIPMENT SCHEDULE WINE ROOMS INDOOR UNIT**

| MARK   | AREA            | SUPPLY CFM | ESP      | AMPACITY | BRKR/POLES | H X W X D      | WEIGHT | REMARKS                |
|--------|-----------------|------------|----------|----------|------------|----------------|--------|------------------------|
| EC # 1 | 101 (1st FLOOR) | 3,700      | FREE AIR | 4.2      | 15A/2P     | 9" X 40" X 94" | 164    | TTM426MA-S2D (4 UNITS) |
| EC # 2 | 102 (1st FLOOR) | 1,900      | FREE AIR | 2.2      | 15A/2P     | 9" X 40" X 94" | 116    | TTM215MA-S2D (2 UNITS) |
| EC # 3 | 100 (1st FLOOR) | 1,900      | FREE AIR | 2.2      | 15A/2P     | 9" X 40" X 94" | 116    | TTM215MA-S2D (1 UNITS) |
| EC # 4 | 105 (2nd FLOOR) | 1,900      | FREE AIR | 2.2      | 15A/2P     | 9" X 40" X 94" | 116    | TTM215MA-S2D (1 UNITS) |
| EC # 5 | 106 (2nd FLOOR) | 1,900      | FREE AIR | 2.2      | 15A/2P     | 9" X 40" X 94" | 116    | TTM215MA-S2D (1 UNITS) |
| EC # 6 | 104 (2nd FLOOR) | 928        | FREE AIR | 0.7      | 15A/2P     | 8" X 43" X 12" | 38     | TTM20TMA-S2D (1 UNITS) |
| EC # 7 | 103 (2nd FLOOR) | 2,850      | FREE AIR | 3.2      | 15A/2P     | 9" X 41" X 94" | 157    | TTM321MA-S2D (1 UNITS) |

Notes:  
 1. TRENTON MANUFACTURE

**EQUIPMENT SCHEDULE WINE ROOMS OUTDOOR UNIT**

| MARK        | CAPACITY NOM | REFRIGERANT CHARGE | REFRIGERANT CAPACITY | INSULATION WALL | REFG LINES LG + SUC | MCA  | BRKR/POLES | H X W X L       | WEIGHT | REMARKS                  |
|-------------|--------------|--------------------|----------------------|-----------------|---------------------|------|------------|-----------------|--------|--------------------------|
| ECU# 1 + 1a | (1) 11,600   | 23 LB / 54 LB      | 3/4"                 | 3/4"            | 2 (5/8" + 1 3/8")   | 40.6 | 80A/3P     | 42" X 36" X 65" | 625    | TEZA070H8-HT3D (2 UNITS) |
| ECU# 2 + 2a | (1) 51,600   | 9 LB / 22 LB       | 3/4"                 | 1/2"            | 1/2" + 7/8"         | 19.2 | 30A/3P     | 30" X 33" X 44" | 405    | TEZA075H8-HT3D (2 UNITS) |
| ECU# 3      | 25,800       | 9 LB / 22 LB       | 3/4"                 | 1/2"            | 1/2" + 7/8"         | 19.2 | 30A/3P     | 30" X 33" X 44" | 405    | TEZA075H8-HT3D (1 UNITS) |
| ECU# 4      | 25,800       | 9 LB / 22 LB       | 3/4"                 | 1/2"            | 1/2" + 7/8"         | 19.2 | 30A/3P     | 30" X 33" X 44" | 405    | TEZA075H8-HT3D (1 UNITS) |
| ECU# 5      | 25,800       | 9 LB / 22 LB       | 3/4"                 | 1/2"            | 1/2" + 7/8"         | 19.2 | 30A/3P     | 30" X 33" X 44" | 405    | TEZA075H8-HT3D (1 UNITS) |
| ECU# 6      | 11,800       | 3 LB / 5 LB        | 3/4"                 | 3/8"            | 3/8" + 5/8"         | 7.6  | 15A/3P     | 19" X 25" X 30" | 188    | TEZA009H8-HT3D (1 UNITS) |
| ECU# 7      | 35,800       | 22 LB / 9 LB       | 3/4"                 | 1/2"            | 1/2" + 7/8"         | 21.1 | 35A/3P     | 30" X 33" X 44" | 410    | TEZA030H8-HT3D (1 UNITS) |

Notes:  
 1. ASSUME ELECTRIC POWER SUPPLY SHOWN 200 / 3 / 60  
 2. CAPACITY SHOWN @95° OD AMB. CONDENSING TEMP.  
 3. INSTALL HURRICANE TIE DOWN- SEE DETAIL THIS SHT.  
 4. REFRIGERANT R448A  
 5. TRENTON MODEL SHOWN

**GENERAL CONDITIONING NOTES**

- This installation to comply with the Florida Building Code 7th edition (2020) and the FBC Mechanical 7th edition (2020) and any local code requirements, the mechanical contractor shall secure a mechanical permit from the governing authority, and be responsible for timely inspections of the mechanical work.
- In general, plans and diagrams are schematic only and should not be scale. Intent of these notes and mechanical notes on drawings is to clarify the scope of work and alert contractor of existing conditions. The contractor is 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 subcontractors before any construction work. Unless otherwise noted, install ductwork as high as possible, tight to bottom of the structure. Coordinate duct elevation with rain leaders, water piping, sanitary drains and major electrical conduits.
- Submittals shall meet schedule design characteristics. This includes but not limited to AIRFLOW, ESP, Capacities, Voltages/Phase, MCA/POCP, etc.
- Ductwork to be fabricated from rigid fiberglass, or galvanized sheet metal. Duct Dimensions shown in the drawings are clear inside dimensions (free area). All accessible supply air takeoffs shall have dampers to balance the airflow to the duct schedule quantities. Identify the damper handles with "1" of "turning flag" to facilitate locating after ceiling is installed. Ductwork to be R-6.0 or greater where in unconditioned space, R-4.3 in conditioned spaces, outdoor air and exhaust air to be un-insulated metal duct. All duct to conform to UL 181 standard. Rigid fiberglass (r.f.o. 1 1/2" thickness) to be reinforced per the SMACNA schedule were the dimension exceeds 26". Note: requirements differ between supply and return air, positive vs negative pressure. Support rigid fiberglass duct from metal strap, flex support may be in nylon mesh.
- Duct seam closure and wrap vapor barrier may be in either fiberglass fabric and mastic or duct tape. If duct tape is used, the tape MUST BE FABSON #880 - ABSOLUTELY NO SUBSTITUTION! This is not a tape only closure, closure, use fiberglass fabric w/ mastic.
- Duct work Diffusers, Registers, Grilles and other items of the air handling systems shall not be supported by the ceiling or ceiling suspension system.
- Condensate drains to be in schedule 40 PVC with a clean out located at the air handler or RTU and a minimum 2" deep trap. CD line size to be 3/4" to 1/2". 1" PVC for 10 TON, 1/4" for 15 TON. Provide "arms and legs" type 1/2" thick stainless steel drain run overhead or under drain sweating would damage the structure. Condensate drains to terminate at a "green space". Provide a secondary drain system, with aux. drain pan on the horizontal air handlers, run outside and identified with red paint OR a float switch system is acceptable.
- AHU's in Mechanical Mezzanine to drain to GC supplied 'Hub Drain' within Mechanical Room.
- FBC M 606.21 Smoke detection systems controls, smoke detectors listed for use in air distribution systems shall be located downstream of the air filters and ahead of any branch connections in air supply systems having the capacity greater than 2000 CFM cubic feet per minute.
- Flexible and Rigid Round duct take-off for diffusers shall be the same size as diffuser neck. Maximum flexible duct length shall be 10'-0" FBC 603.6. Flexible AIR duct shall have continuous tear resistant linear encased by insulating material with an outer vapor jacket conforming to UL 181.
- Condensing units to rest on rubber vibration isolation pads, with a minimum height of 1/2" on concrete slabs. The concrete slabs by the GC with the mechanical contractor responsible to coordinate the size allowing a minimum 6" beyond the dimension of the condensing unit. Hurricane tie down by Pre-eng. clips w/ #4 tech screws Condenser "Roof mounted" on FL PA # 14239-R5
- Refrigerant copper lines to be per schedule along with condensing units. These size lines to have oxygen purged with dry nitrogen before brazing to minimize scale. Refig. Lines 1/2" and smaller to have 1/2" annular, greater than 1/2" to have 3/4" thickness insulation. ABSOLUTELY NO DUCT TAPE ON THE INSULATION use "Flexflex" glue on all joints. Install liquid line filter drier on systems that do not have them factory installed.
- FBC C403.2.4 Programmable TSTAT per FBC systems Controls. See Floor plan for location. Each heating and cooling system shall be provided with thermostat controls as specified in Section C403.2.4. Thermostat wire to be minimum gauge 18 wire, with a minimum of one spare conductor in each jacket LESSOR GAUGE "THERMOSTAT" WIRE IS UNACCEPTABLE!
- HVAC contractor to provide a test & balance report to the owner as part of the close out package. This report to contain model / serial numbers of all mechanical equipment as well as the final balance report showing airflow by diffuser. A calibrated "flow hood" with an experienced technician is required to perform this work. Contractor may employ a NEBB certified company to perform this work and provide the necessary report. Air quantities to be balanced to within 10% of listed values. A report of vital system pressures, refrigerant and duct static, temperatures and ampere readings to be included in this report.
- Provide protection to piping insulation. -FBC C403.2.10 Piping insulation exposed to weather shall be protected from damage and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- FBC M603.2 Set outdoor air dampers to quantities indicated on the air handler schedule to meet the requirements of ASHRAE 62.1-2010. Air quantities are located on the equipment schedule. BDD to close with blower shut-down.
- Air conditioning equipment to have a one-year parts and labor warranty, with an additional warranty of four years on the compressor by the unit manufacturer. Provide the owner with warranty papers at close out.

**AIR DISTRIBUTION SCHEDULE**

| MARK | CFM | NECK  | REMARKS   |
|------|-----|-------|---|
| (A)  | 250 | 12X6  | PROSELECT SDUL DIFFUSER W/MSD (F5VAFM)              |
| (B)  | 230 | 12X6  | PROSELECT SDUL DIFFUSER W/MSD (F5VAFM)              |
| (C)  | 210 | 10X6  | PROSELECT SDUL DIFFUSER W/MSD (F5VAFM)              |
| (D)  | 40  | 8X4   | PROSELECT CEILING DIFFUSER W/MSD (F5A1CW)           |
| (E)  |     | 16X16 | EGG CRATE STYLE RTN /TITUS 50F OR EQUAL (NO FILTER) |
| (F)  |     | 24X12 | EGG CRATE STYLE RTN /TITUS 50F OR EQUAL (NO FILTER) |
| (G)  |     | 14X14 | EGG CRATE STYLE RTN /TITUS 50F OR EQUAL (NO FILTER) |
| (H)  |     | 100   | WALL CAP, NO BDD, W/ SCREEN                         |
| (I)  |     | 80    | WALL CAP, NO BDD, W/ SCREEN                         |
| (J)  |     | 60    | WALL CAP, NO BDD, W/ SCREEN                         |
| (K)  | 60  | 8X4   | PROSELECT SDUL DIFFUSER W/MSD (F5VAFM)              |

- ALL GRILLES AND DIFFUSERS TO BE WHITE.
- CEILING DIFFUSERS NO DAMPERS AT GRILLES, USE MANUAL QUADRANT DAMPER AT BRANCH DUCT CONNECTION
- TITUS BASIS OF DESIGN, OTHER MANUFACTURER ARE ACCEPTABLE WITH LIKE ENGINEERING.

**\* DEHUMIDIFIER SCHEDULE**

| MARK | AREA      | AMPACITY | MOCP | ELECTRIC | CAPACITY PINTS PER DAY | DIMENSIONS L X W X H | WEIGHT | REMARKS        |
|------|-----------|----------|------|----------|------------------------|----------------------|--------|----------------|
| DH-1 | SUITE 301 | 8.3      | AMPS | 15A/1P   | 130                    | 30"X19.5"X18.75"     | 98#    | APRILAIRE E130 |

NOTES:  
 1. "ON BOARD" CONTROLS NO REMOTE CONTROLLER REQUIRED.  
 2. 80" DB - 60% RH ENTERING AIR.  
 3. "PLUG IN" 20A, 115V, PLUG FOR SERVICE DISCONNECT.  
 4. DEHUMIDIFIER DISCHARGE IN TO 5/8" DIFFUSER DIRECTLY INTO ROOM (10" dia.)



**ENGINEER STATEMENT:**  
 TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE AS REFERENCED WITHIN THE PLANS

STEPHEN G. THOMPSON AIA, PE  
 PE 30638/AIA 3061180

REVISIONS

**RETAIL / MERCANTILE OFFICE**  
 2409 S. MacDill Ave  
 Tampa FL 33629

DRAWN: EGS  
 CHECKED: SJT  
 DATE: December 5, 2022  
 June 15, 2023  
 SCALE: AS NOTED  
 JOB NO.:

PLANS COMPLY WITH FLORIDA BUILDING CODE 7TH EDITION (2020) AND THE FBC - MECHANICAL 7TH EDITION (2020)

SHEET #:  
**M-4**