

## C:\Users\RawyaOsman\OneDrive - Horizon Architecture\Projects\General Projects\G25-041 DAS 5JD Renovations\1 - Model and Design\5JD InteriorRenovation.rvt

| APPLICABLE CODES AND ORDINANCES                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| • International Building Code, [2024] Edition                                                               |
| • International Existing Building Code, [2024] Edition                                                      |
| • ICC A117.1, Accessible and Usable Buildings and Facilities, [2017] Edition                                |
| • Americans with Disabilities Act, 2010 Edition (A117.1 is intended to Meet or Exceed all ADA requirements) |
| • NFPA 101, Life Safety Code, National Fire Protection Association, [2021] Edition                          |
| • International Energy Conservation Code, [2015] Edition/ ASHRAE 90.1-[year]                                |

## INTERIOR RENOVATION, COMMERCIAL OFFICE BUILDING

|  |         |                                 |
|--|---------|---------------------------------|
|  | 1 STORY | COMMERCIAL, INTERIOR RENOVATION |
|--|---------|---------------------------------|

| **OCCUPANCY CALCS |                   |                        |      |
|-------------------|-------------------|------------------------|------|
| B                 | 20,293 SF (GROSS) | 150 SF /PERSON (GROSS) | 133* |
| A-3               | 1,003 SF (GROSS)  | 15 SF /PERSON (NET)    | 67   |
| S-2               | 1,878 SF (GROSS)  | 300 SF /PERSON (GROSS) | 7    |
| ALL OCCUPANCIES   |                   |                        | 207  |

| BUILDING ELEMENT | CHAPTER | REQUIRED | PROVIDED |
|------------------|---------|----------|----------|
|------------------|---------|----------|----------|

| JOIN BEARING WALLS AND PARTITIONS |                              |         |             |
|-----------------------------------|------------------------------|---------|-------------|
| EXTERIOR                          | TABLE 601, 602 & SECTION 705 | 0 HOURS | 0 HOURS MIN |
| INTERIOR                          | TABLE 601                    | 0 HOURS | 0 HOURS MIN |
| FLOOR CONSTRUCTION                | TABLE 601                    | 0 HOURS | 0 HOURS MIN |
| ROOF CONSTRUCTION                 | TABLE 601                    | 0 HOURS | 0 HOURS MIN |

| **MEANS OF EGRESS |          |          |          |
|-------------------|----------|----------|----------|
|                   | IBC 2024 | REQUIRED | PROVIDED |

IBC SECTION 1020.2 CORRIDOR FIRE-RESISTANCE RATING FOR BUSINESS OCCUPANCY WITHOUT AUTOMATIC SPRINKLER SYSTEM WITH OCCUPANCY LOAD SERVED BY CORRIDOR GREATER THAN 30

## PLUMBING CALCULATIONS

| IBC 2024 SECTION 2902.1    |         |
|----------------------------|---------|
| CLASSIFICATION DESCRIPTION | OFFICES |

ARCHITECTURAL APP ARCHITECTURAL APP ARCHITECTURAL APP ARCHITECT

| GENERAL SYMBOLS LEGEND |                                                                           | CEILING SYMBOLS LEGEND |                           | MATERIAL LEGEND |                      |
|------------------------|---------------------------------------------------------------------------|------------------------|---------------------------|-----------------|----------------------|
|                        | DETAIL NUMBER<br>SHEET NUMBER                                             |                        | LIGHT FIXTURE             |                 | METAL STUD PARTITION |
|                        | BUILDING SECTION NUMBER<br>SHEET NUMBER                                   |                        | SUSPENDED LIGHT FIXTURE   |                 | MORTAR               |
|                        | SECTION NUMBER<br>SHEET NUMBER                                            |                        | WALL SCONCE LIGHT FIXTURE |                 | COMPOSITE WOOD PANEL |
|                        | ELEVATION NUMBER<br>SHEET NUMBER                                          |                        | PENDANT LIGHT FIXTURE     |                 | PLASTER              |
|                        | LEVEL 1<br>LEVEL HEIGHT                                                   |                        | ACCESS PANEL              |                 | PLYWOOD              |
|                        | ROOM NAME<br>ROOM NUMBER                                                  |                        |                           |                 | PRECAST CONCRETE     |
|                        | CEILING FINISH<br>CEILING TYPE                                            |                        |                           |                 | RIGID INSULATION     |
|                        | CEILING ELEVATION AFF                                                     |                        |                           |                 | SAND                 |
|                        | DOOR MARK                                                                 |                        |                           |                 | STEEL                |
|                        | REVISION MARK                                                             |                        |                           |                 | STONE                |
|                        | CURTAIN WALL MARK                                                         |                        |                           |                 | WOOD STUD PARTITION  |
|                        | WALL OR PARTITION MARK                                                    |                        |                           |                 |                      |
|                        | WALL OR PARTITION FIRE RESISTIVE ASSEMBLY                                 |                        |                           |                 |                      |
|                        | WINDOW MARK                                                               |                        |                           |                 |                      |
|                        | NORTH ARROW SYMBOL<br>HEAVY LINE - PLAN NORTH<br>DASHED LINE - TRUE NORTH |                        |                           |                 |                      |

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150 DES MOINES ST.  
DES MOINES, IA 50309

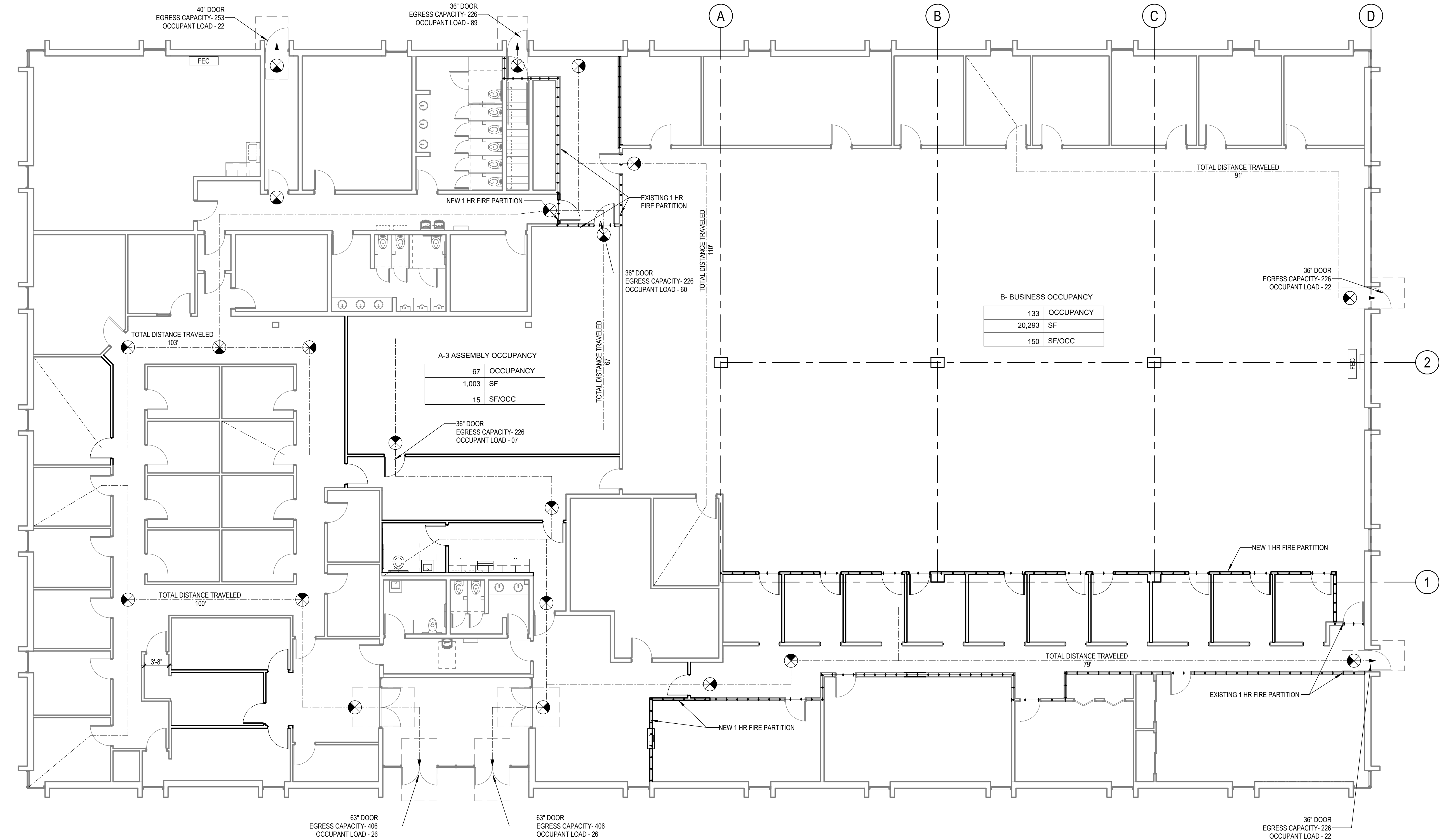
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# COVER SHEET

# G101

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1 FIRST FLOOR LIFE SAFETY PLAN



LIFE SAFETY PLAN KEY

**FLOOR AREA AND OCCUPANT LOAD**  
A/B/F/R  
###  
# ### SF  
###

**EGRESS COMPONENT CAPACITY**  
EGRESS WIDTH  
EGRESS CAPACITY - XX  
OCCUPANT LOAD - XX

**FIRE EXTINGUISHER CABINET**  
FEC

**EXIT SIGN**  
EXIT SIGN

**FIRE PARTITION - 1 HOUR - IBC 708**  
FIRE PARTITION - 1 HOUR - IBC 708

**TRAVEL PATH TO BUILDING EXIT DISCHARGE**  
TRAVEL PATH TO BUILDING EXIT DISCHARGE

DAS -9481.00- 5JD 150 DES  
MOINES STREET RENOVATIONS  
150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
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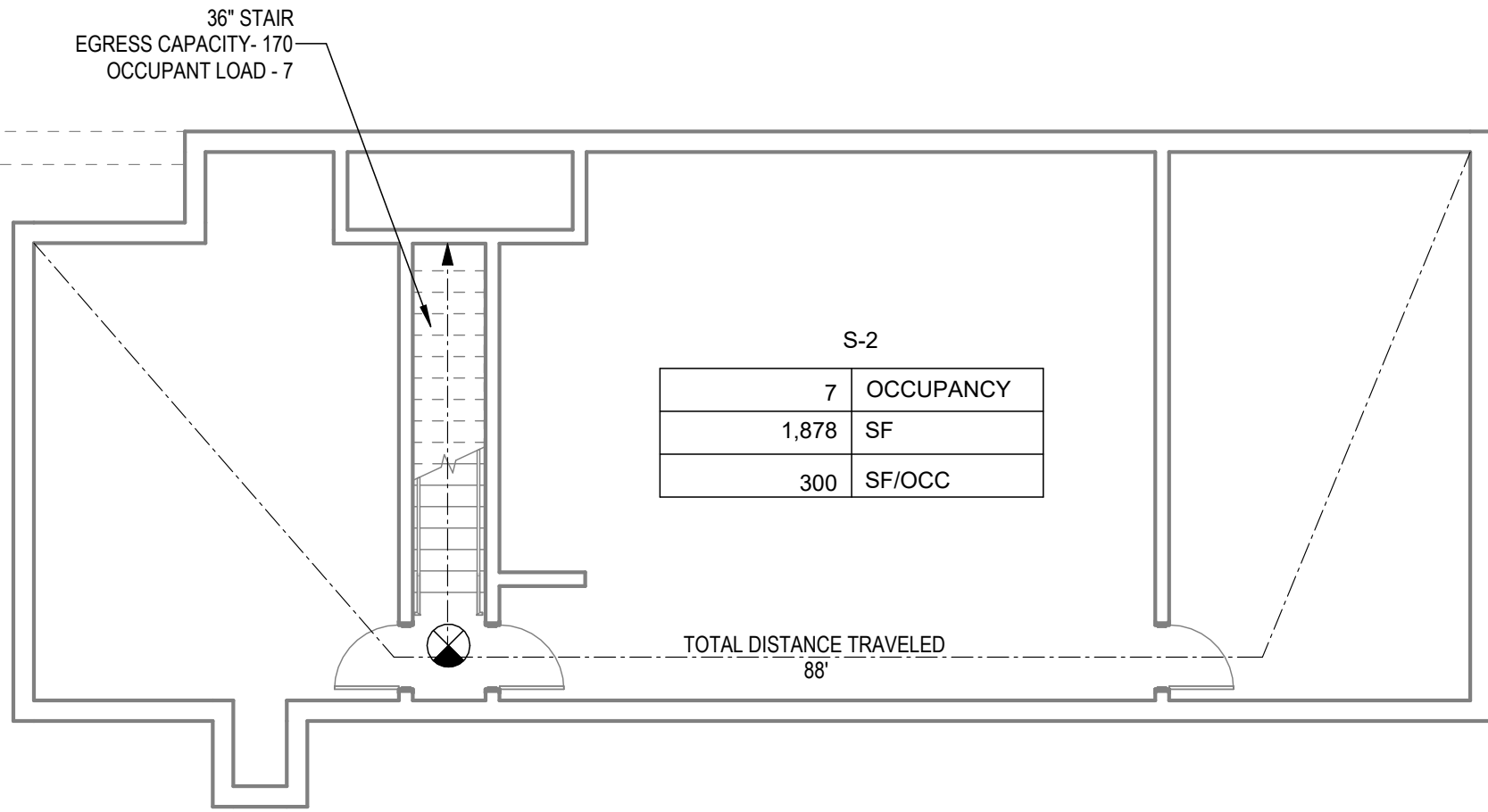
SHEET TITLE  
FIRST FLOOR  
LIFE SAFETY  
PLAN

G102

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LIFE SAFETY PLAN KEY

A/B/F/R  
###  
# ### SF  
###

XX' STAIR/ DOOR  
EGRESS CAPACITY- XX  
OCCUPANT LOAD - XX

FEC

FLOOR AREA AND OCCUPANT LOAD  
OCCUPANCY TYPE  
OCCUPANT LOAD  
FLOOR AREA  
OCCUPANT LOAD FACTOR

EGRESS COMPONENT CAPACITY  
EGRESS WIDTH  
EGRESS CAPACITY  
MAXIMUM OCCUPANT CAPACITY

FIRE EXTINGUISHER CABINET

EXIT SIGN

FIRE PARTITION - 1 HOUR - IBC 708

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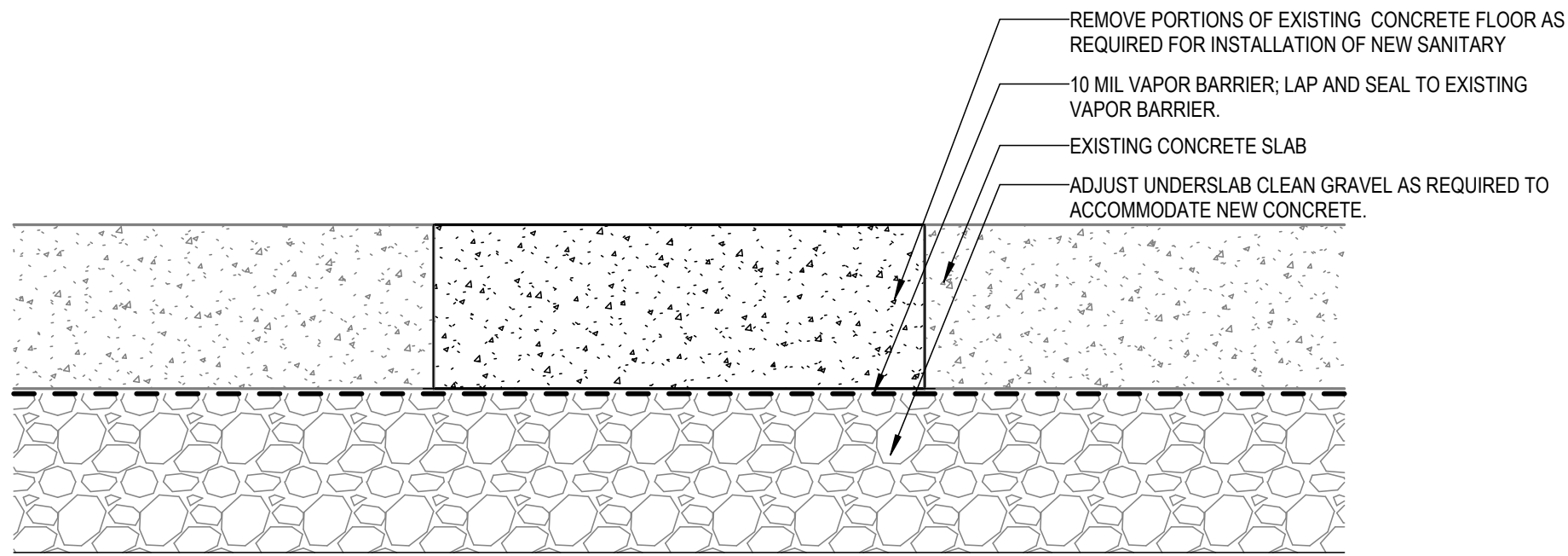
SHEET TITLE

BASEMENT  
FLOOR LIFE  
SAFETY PLAN

G103

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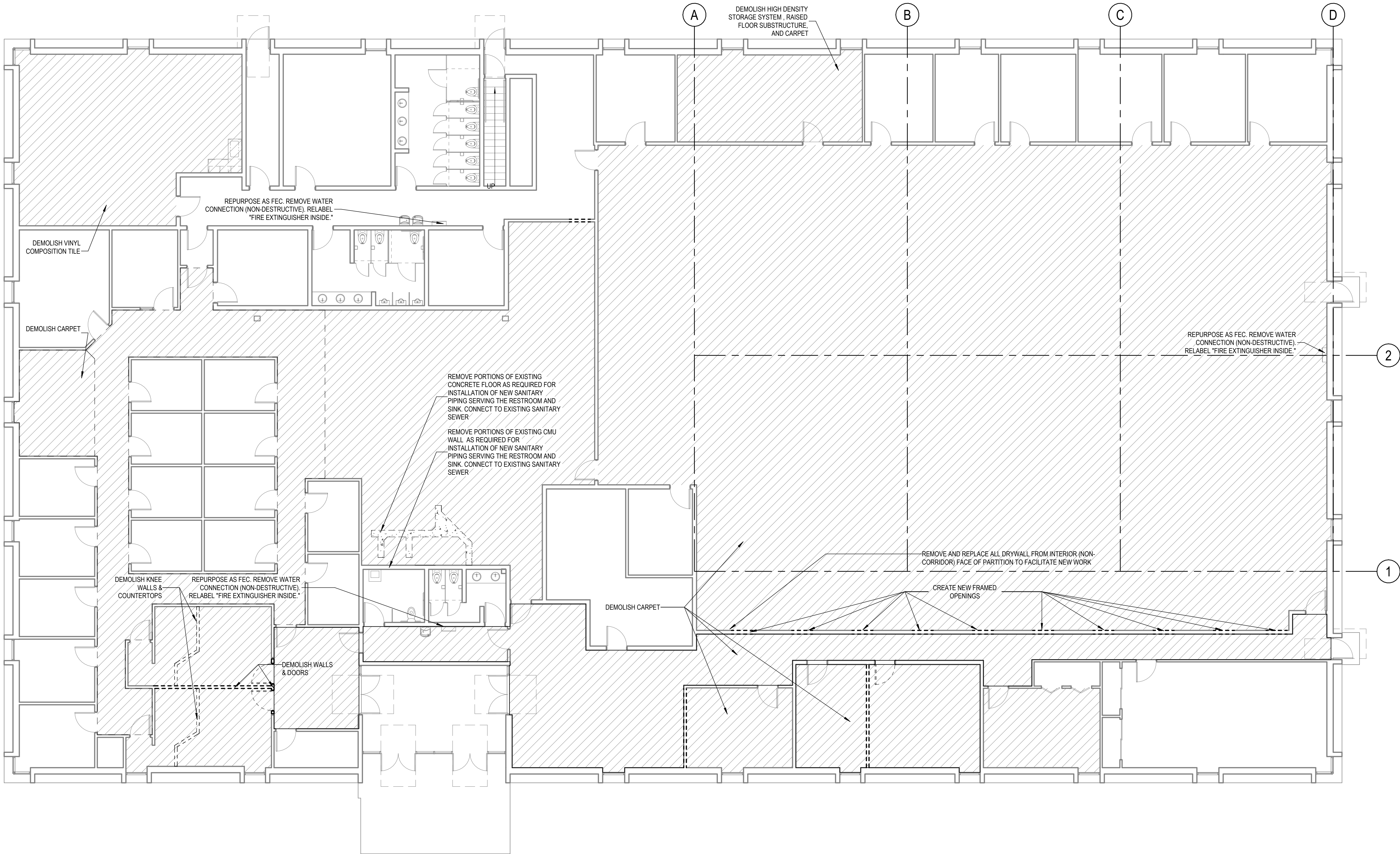
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**2 SLAB DEMO DETAIL**  
3" = 1'-0"

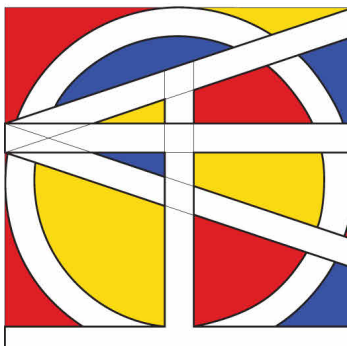
**GENERAL DEMOLITION NOTES**

1. THE DEMOLITION DRAWINGS ARE A SUMMARY AND WILL NOT SHOW ALL SPECIFIC ITEMS FOR REMOVAL. REMOVAL AND MODIFICATION OF EXISTING ITEMS SHALL BE INCLUDED WHERE REQUIRED TO ACCOMMODATE THE NEW WORK SHOWN. CONTRACTOR MUST FIELD VERIFY SPECIFIC ITEMS AND CONDITIONS.
2. DARK DASHED LINES REPRESENT ITEMS TO BE REMOVED, EVEN IF NOT SPECIFICALLY KEYED. LIGHT LINES (DASHED OR SOLID) INDICATE EXISTING ITEMS TO REMAIN.
3. PROTECT ADJACENT REMAINING WORK DURING DEMOLITION TO ALLOW PATCHING TO MATCH EXISTING OR NEW CONDITIONS.
4. PROVIDE NEW LINTELS FOR NEW OPENINGS IN EXISTING MASONRY THAT ARE 12" WIDE OR GREATER. THIS INCLUDES MEPT OPENINGS REQUIRED FOR THE WORK SHOWN ON MEPT DRAWINGS AND ARE NOT SHOWN ON THE ARCHITECTURAL DEMOLITION DRAWINGS.
5. REFER TO MEPT DRAWINGS FOR EXTENTS OF MEPT DEMOLITION WORK.
6. EXCEPT AS NOTED ABOVE THE RESPECTIVE TRADES SHALL CUT, REMOVE AND PATCH BACK READY FOR FINISH ALL ITEMS NEEDED FOR INSTALLATION OF THEIR WORK.
7. INCIDENTAL PATCHING: EXPOSED FINISHES SHALL BE PATCHED BACK TO MATCH EXISTING OR SCHEDULED FINISH BY THE FINISH TRADE PERFORMING THE FINISHES FOR THE PROJECT AFTER PATCHING BACK OF BASE MATERIAL BY THE TRADE PERFORMING THE REMOVAL.
8. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR NEW OPENINGS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY A STRUCTURAL ENGINEER.
9. DO NOT DISTURB OR REMOVE MATERIALS SUSPECTED TO CONTAIN HAZARDOUS MATERIALS. NOTIFY ARCHITECT AND OWNER IF ENCOUNTERED.
10. MAINTAIN AND PROTECT ALL EXITWAYS AND EXITS IN OCCUPIED BUILDINGS.



**1 DEMOLITION PLAN LEVEL 1**  
1/8" = 1'-0"

**HORIZON**  
ARCHITECTURE



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**MOINES STREET RENOVATIONS**

**150 DES MOINES ST.**  
**DES MOINES, IA 50309**

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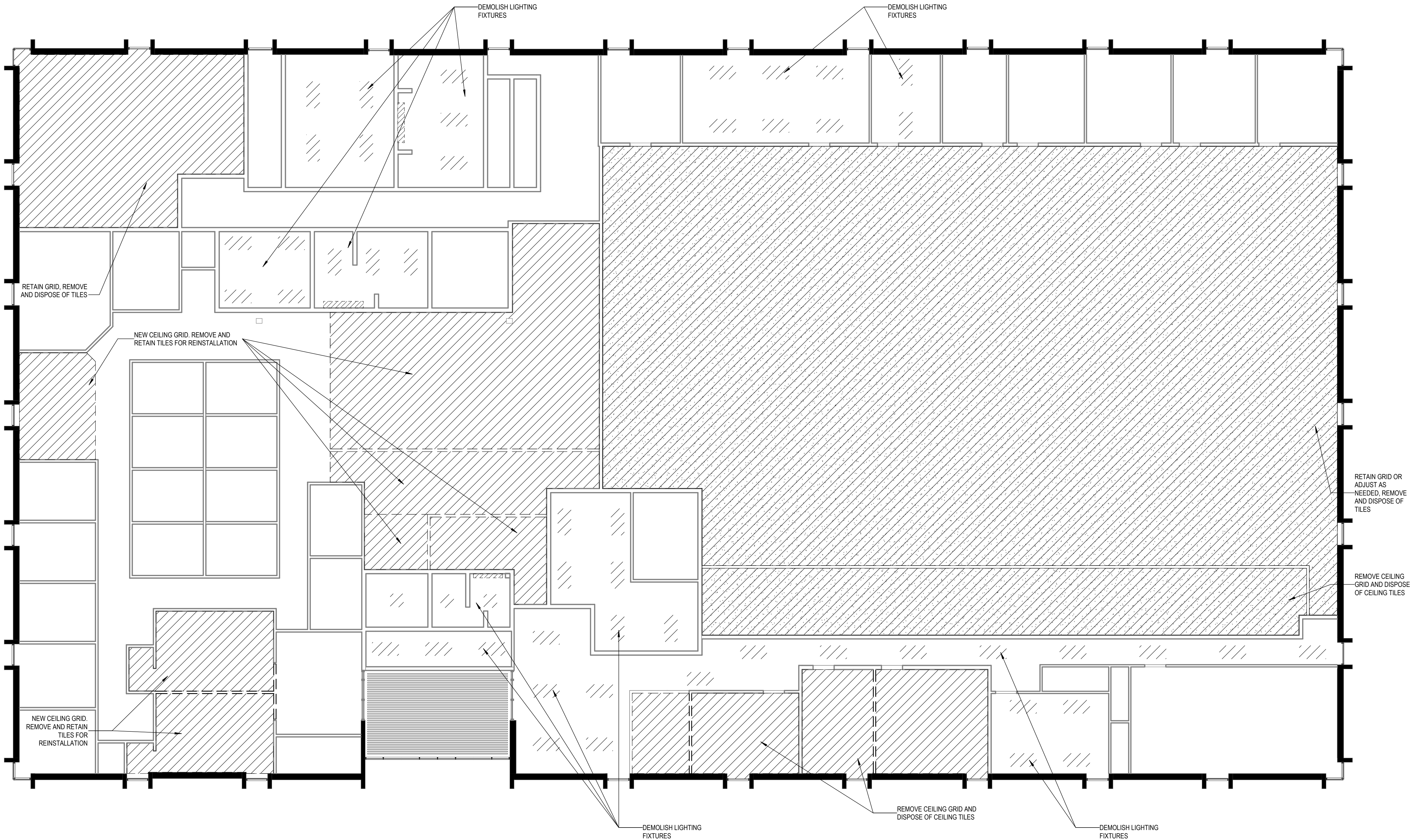
**FIRST FLOOR**  
**DEMO PLAN**

**D101**

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1 REFLECTED CEILING PLAN LEVEL 1  
1/8" = 1'-0"



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MOINES STREET RENOVATIONS

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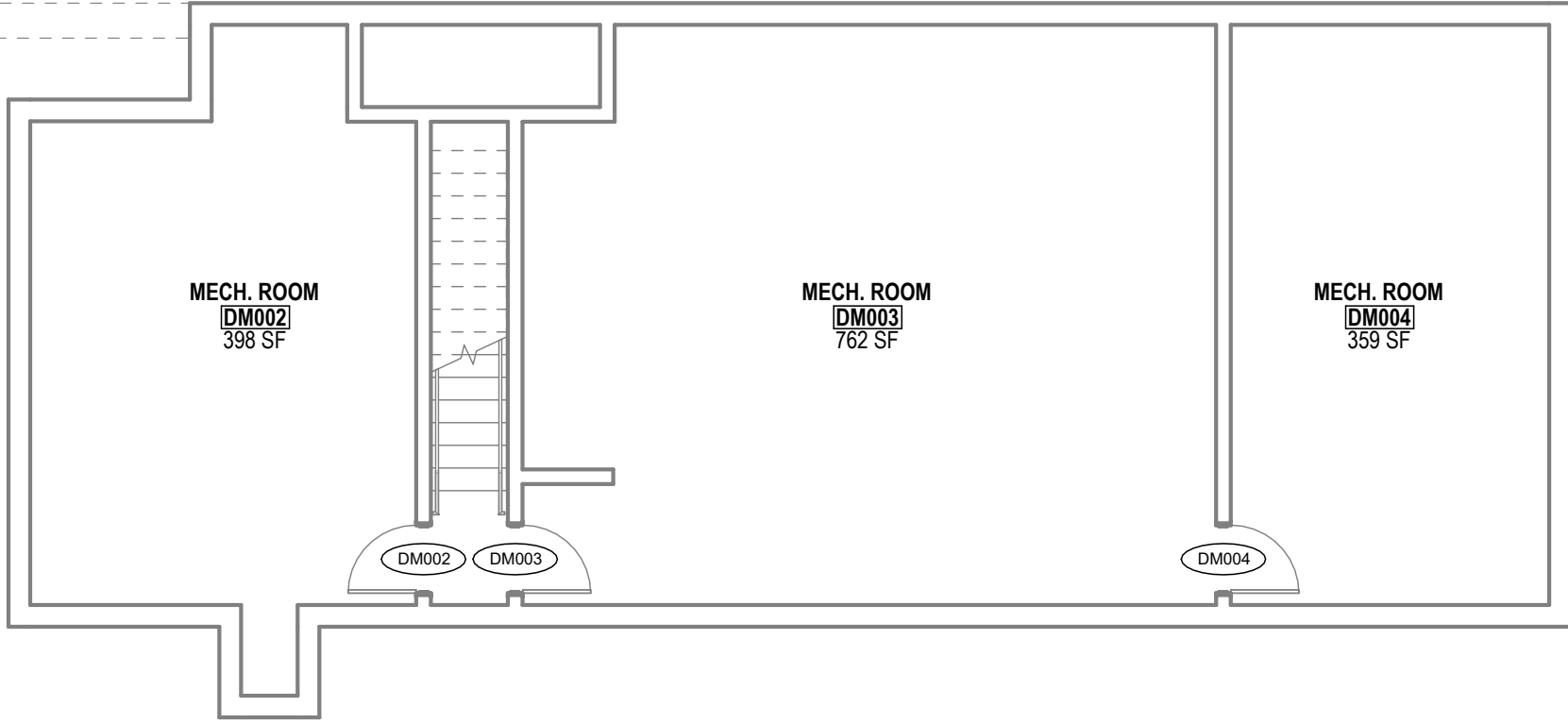
SHEET TITLE  
FIRST FLOOR  
RCP DEMO  
PLAN

ISSUED FOR BIDDING

D102

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1 BASEMNT LEVEL  
1/8" = 1'-0"



GENERAL ARCHITECTURAL NOTES

1. GENERAL
  - A. CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS PRIOR TO MATERIAL FABRICATION AND CONSTRUCTION.
  - B. WHEN DRAWINGS AND SPECIFICATIONS ARE NOT IN AGREEMENT, THE BIDDER SHALL REQUEST WRITTEN CLARIFICATION PRIOR TO BIDDING AND CONSTRUCTION. IF NOT CLARIFIED PRIOR TO BIDDING, THE FOLLOWING PRECEDENCE SHALL BE USED TO DETERMINE SCOPE OF THE BID: SIZE/QUANTITY CONTROLLED BY DRAWINGS, MATERIAL QUALITY CONTROLLED BY SPECIFICATION. FINAL INTERPRETATION MUST BE ISSUED BY THE ARCHITECT/ENGINEER PRIOR TO MATERIAL FABRICATION OR CONSTRUCTION.
  - C. PATCH AND REPAIR DRYWALL AT EXISTING PARTITIONS AFFECTED BY NEW OPENINGS TO MATCH EXISTING ADJACENT SURFACES. REPAINT ENTIRE WALL (CORNER TO CORNER) WHERE PARTITIONS ARE MODIFIED.



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MOINES STREET RENOVATIONS

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SHEET TITLE

BASEMENT  
FLOOR PLAN

A101

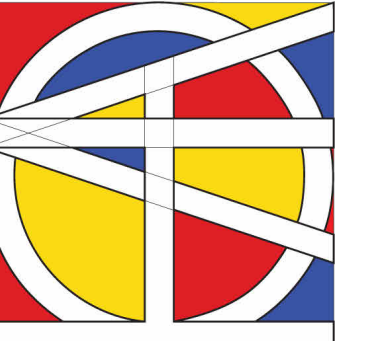
ISSUED FOR BIDDING

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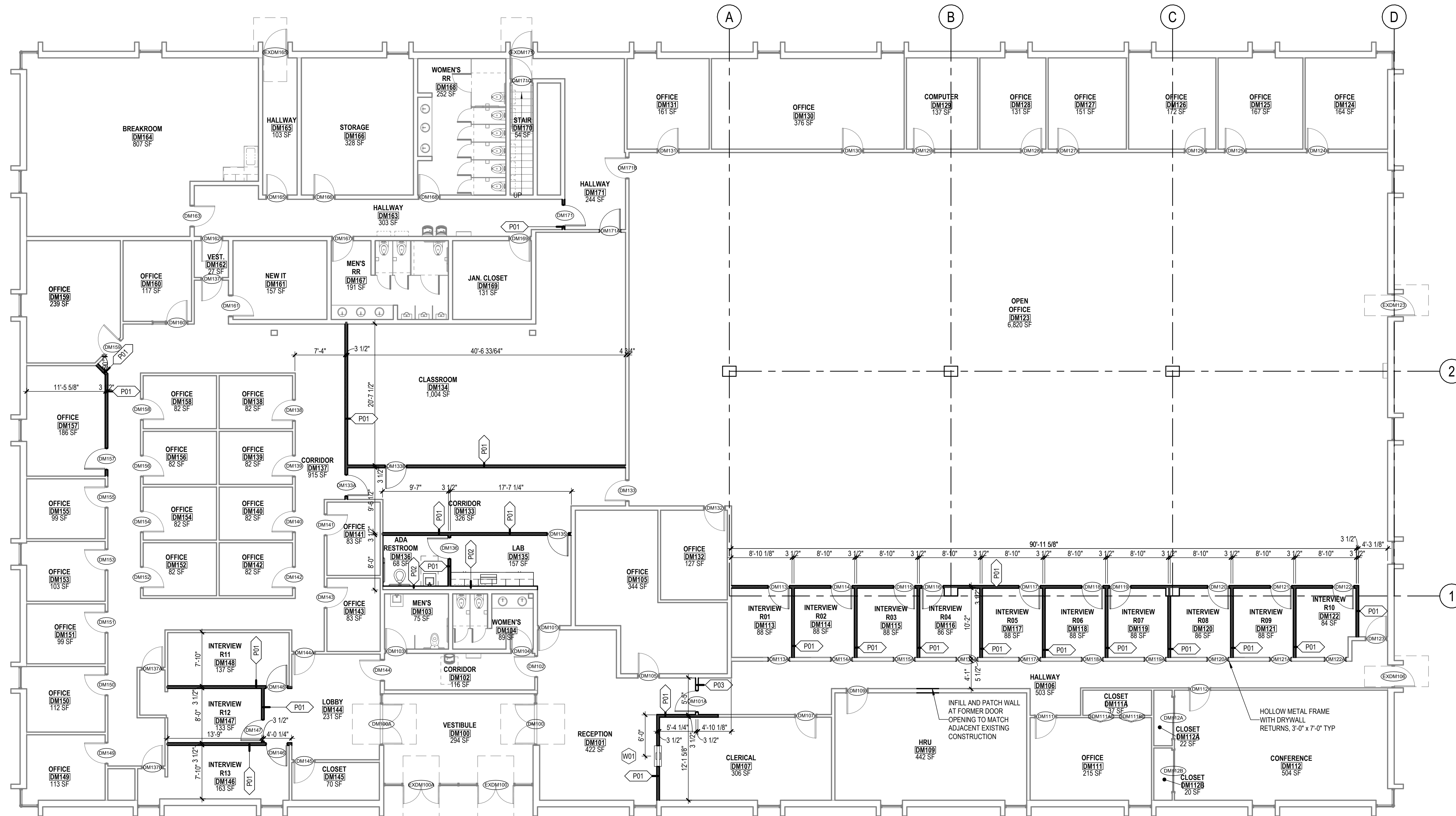
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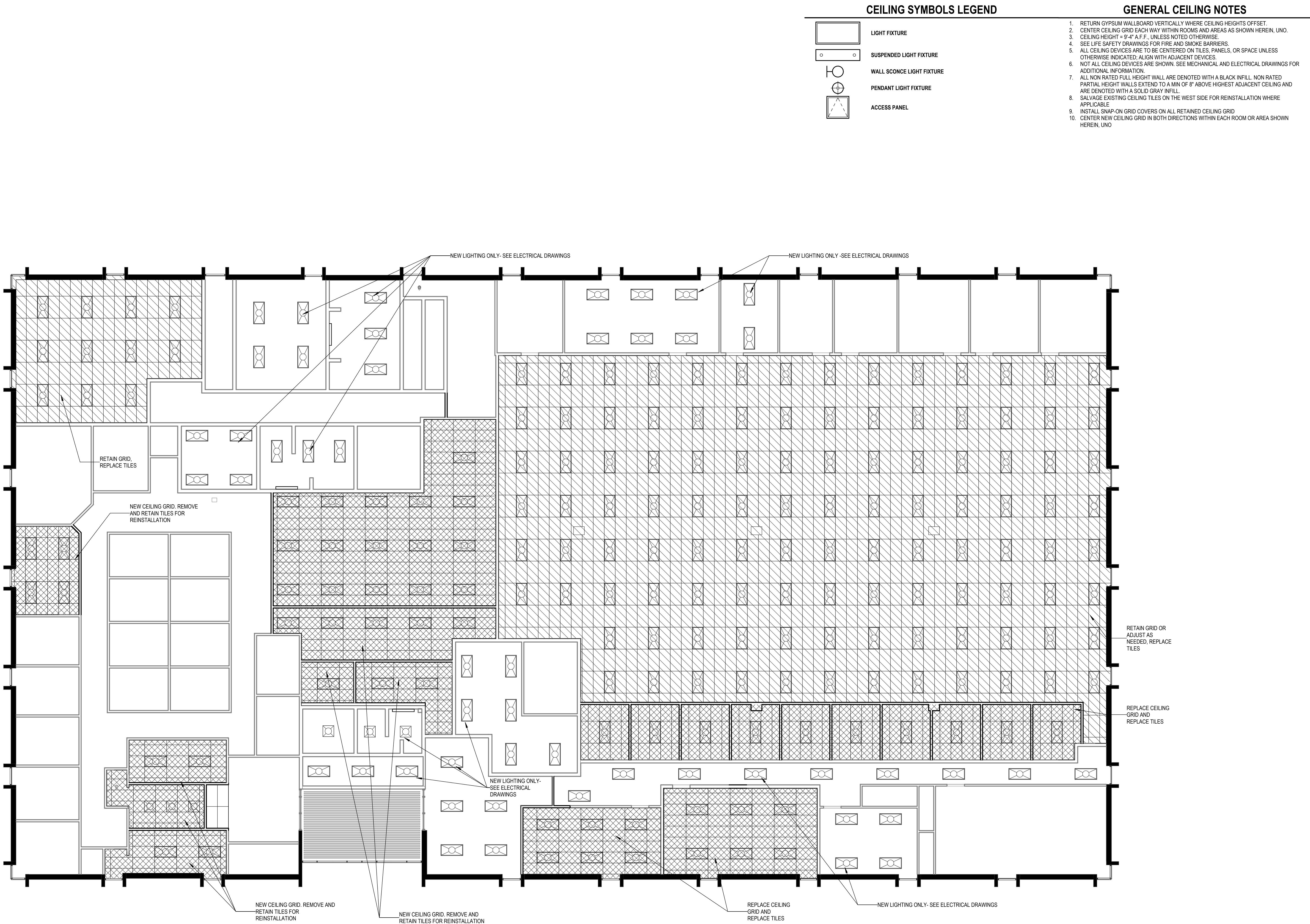
## FIRST FLOOR PLAN

# A102

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1 REFLECTED CEILING PLAN LEVEL 1  
1/8" = 1'-0"

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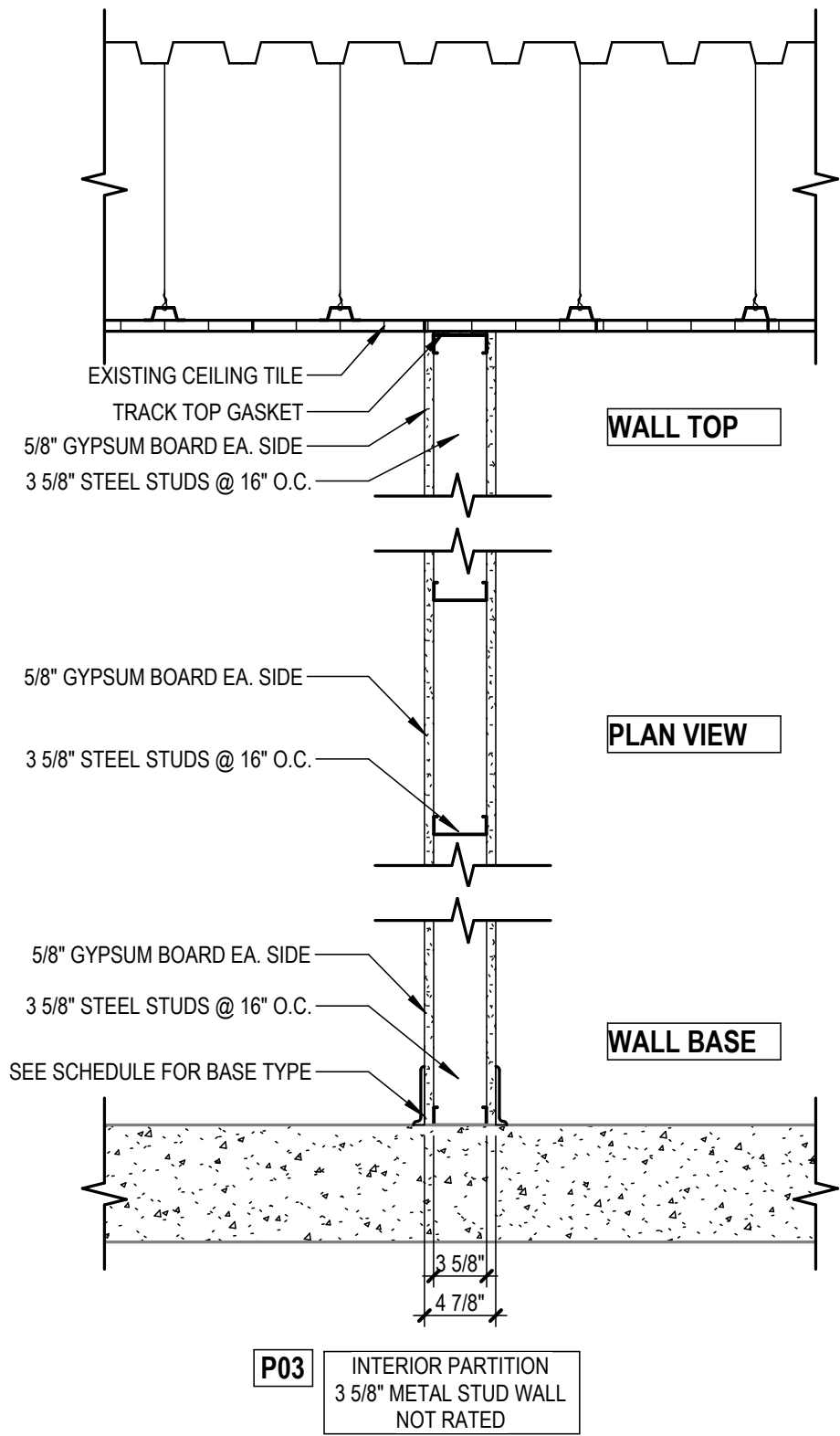
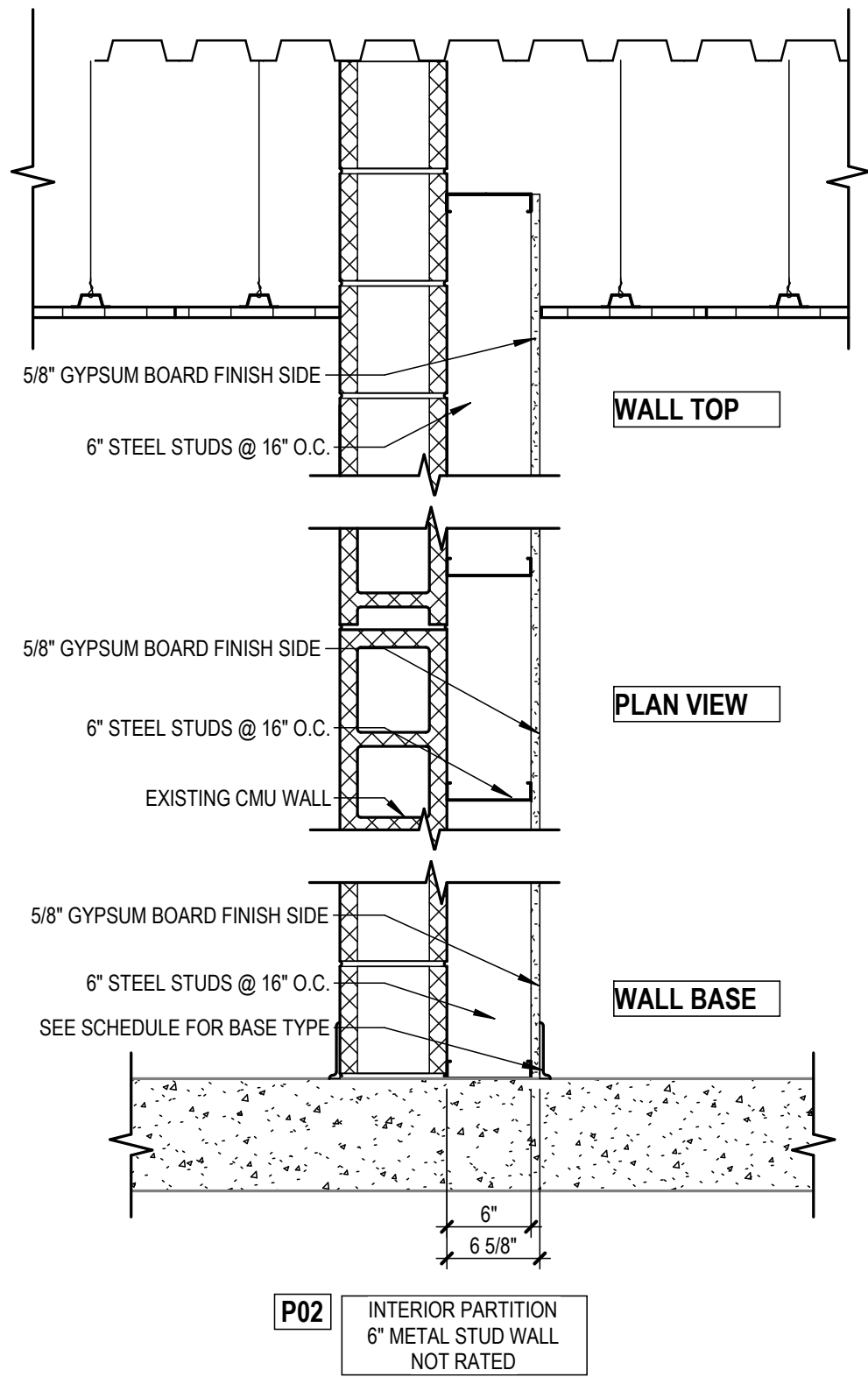
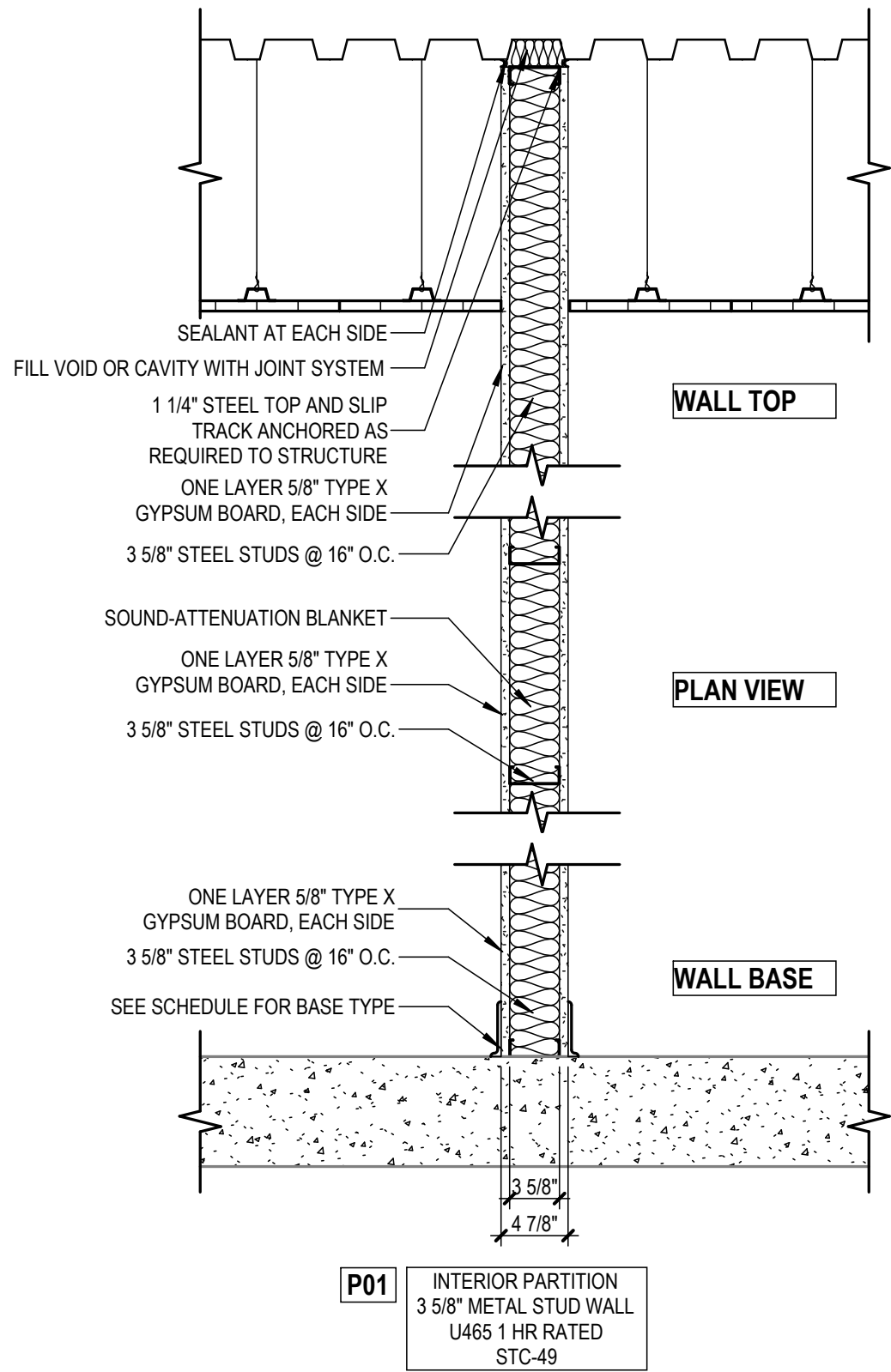
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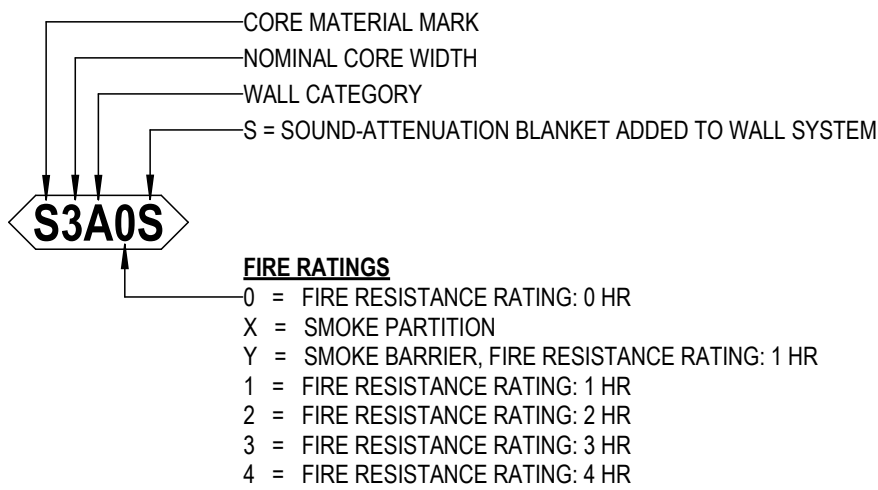
SHEET TITLE

FIRST FLOOR  
RCP

A103



WALL TYPE TAG



GENERAL WALL TYPE NOTES

- PARTITION HEIGHT
  - PARTITIONS IDENTIFIED AS SOUND PARTITIONS SHALL EXTEND UP TO AND TERMINATE TO SHEATHING, DECKS OR STRUCTURAL SLABS ABOVE.
  - UNO, PARTIAL HEIGHT STUD PARTITIONS SHALL FRAME TO STRUCTURE WITH GYP BD TERMINATION 8" ABOVE CEILINGS.
  - CLOSE AND SEAL FULL HEIGHT PARTITIONS AROUND STRUCTURAL FRAMING, PENETRATIONS, AND PERIMETERS. SEE DETAILS FOR PENETRATIONS, TOP OF PARTITION CLOSURES, AND BRACING.
  - SEE CEILING PLANS FOR ADDITIONAL INFORMATION ABOUT PARTITION HEIGHTS.
- ALL INTERIOR METAL STUD PARTITIONS ARE TYPE **P01** UNO
- PARTITION DIMENSIONS:
  - UNO, DIMENSIONS ARE TO THE FACE OF FRAMING AT STUD PARTITIONS
  - SEE GENERAL MOUNTING HEIGHTS FOR ADDITIONAL NOTES RELATED TO REQUIRED CLEARANCE DIMENSIONS
- PROVIDE 5/8" GYP BD MIN UNO. SUBSTITUTE THE FOLLOWING FOR GYPSUM BOARD WHERE SHOWN ON DRAWINGS OR NOTED IN THE ROOM FINISH SCHEDULE:
  - TILE BACKING BOARD AT LOCATIONS TO RECEIVE A TILE WALL FINISH
  - IMPACT RESISTANT GYP BD WHERE INDICATED
  - MOLD RESISTANT GYP BD WHERE INDICATED.
- SOUND PARTITIONS:
  - STC VALUES ARE INDUSTRY STANDARD VALUES FOR WALL TYPES LISTED BASED ON 3 1/2" INSULATION FOR STUD WALLS. ACTUAL VALUES MAY EXCEED VALUES LISTED. CONSTRUCT STUD WALLS PER STC ASSEMBLY FOR SOUND PARTITIONS "S".
  - PROVIDE SOUND ATTENUATION BLANKETS AT STUD SOUND PARTITIONS "S" AT FULL DEPTH WITH 3 1/2" MAXIMUM THICKNESS UNO.
  - PROVIDE FULL STUD THICKNESS SOUND BLANKETS WHERE INDICATED ON THE WALL TYPES.
- PROVIDE SOLID WOOD BLOCKING BEHIND WALL MOUNTED EQUIPMENT, SHELVES, CABINETS, FIXTURES, TOILET FIXTURES AND SIMILAR ITEMS ON GYPSUM BOARD/STUD PARTITIONS.
  - AT TV'S MOUNTED ON STUD WALLS, PROVIDE 3/4" PLYWOOD BLOCKING WITH 24" COVERAGE EACH WAY FROM CENTER OF TV SHOWN ON DRAWINGS. VERIFY TV ELEVATION.



DAS -9481.00- 5JD 150 DES  
MOINES STREET RENOVATIONS

150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
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PROJECT NO: **G24-041**  
DATE: **08/20/2026**  
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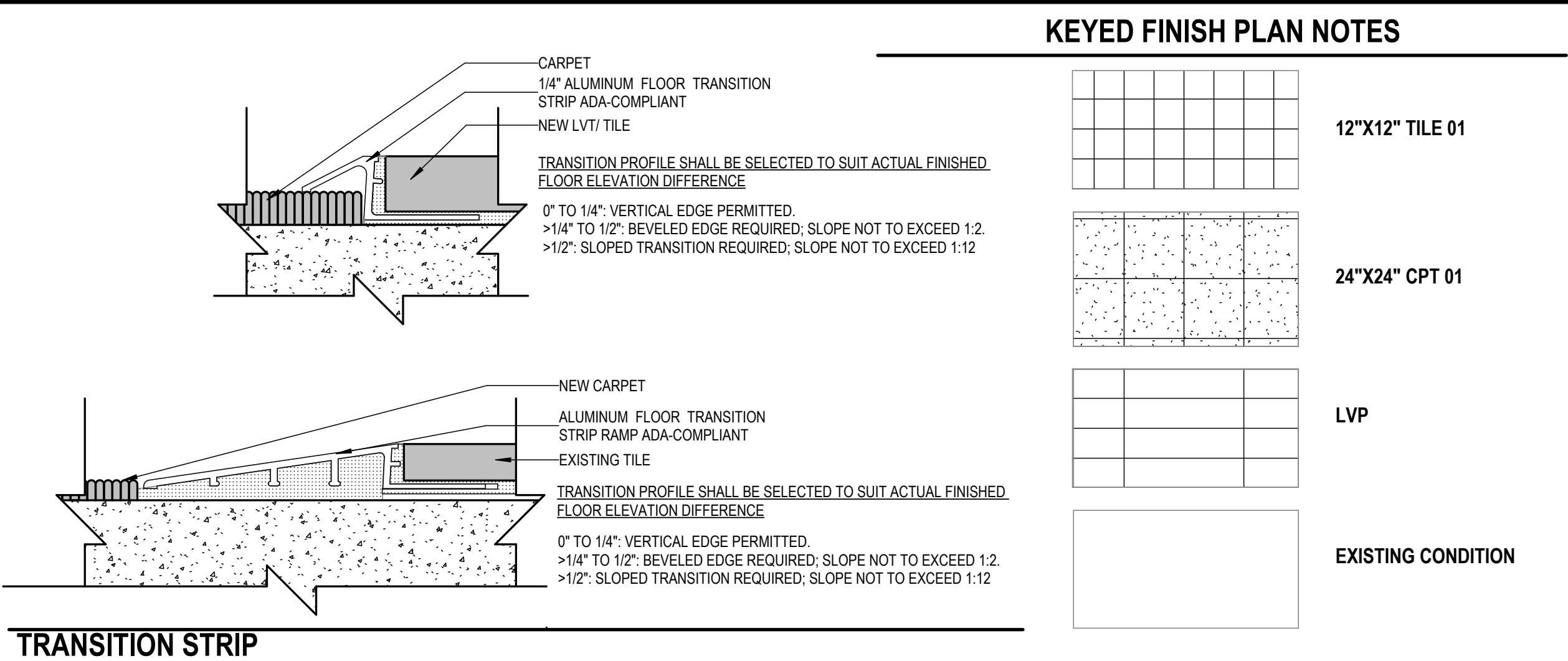
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SHEET TITLE

PARTITION  
SCHEDULE

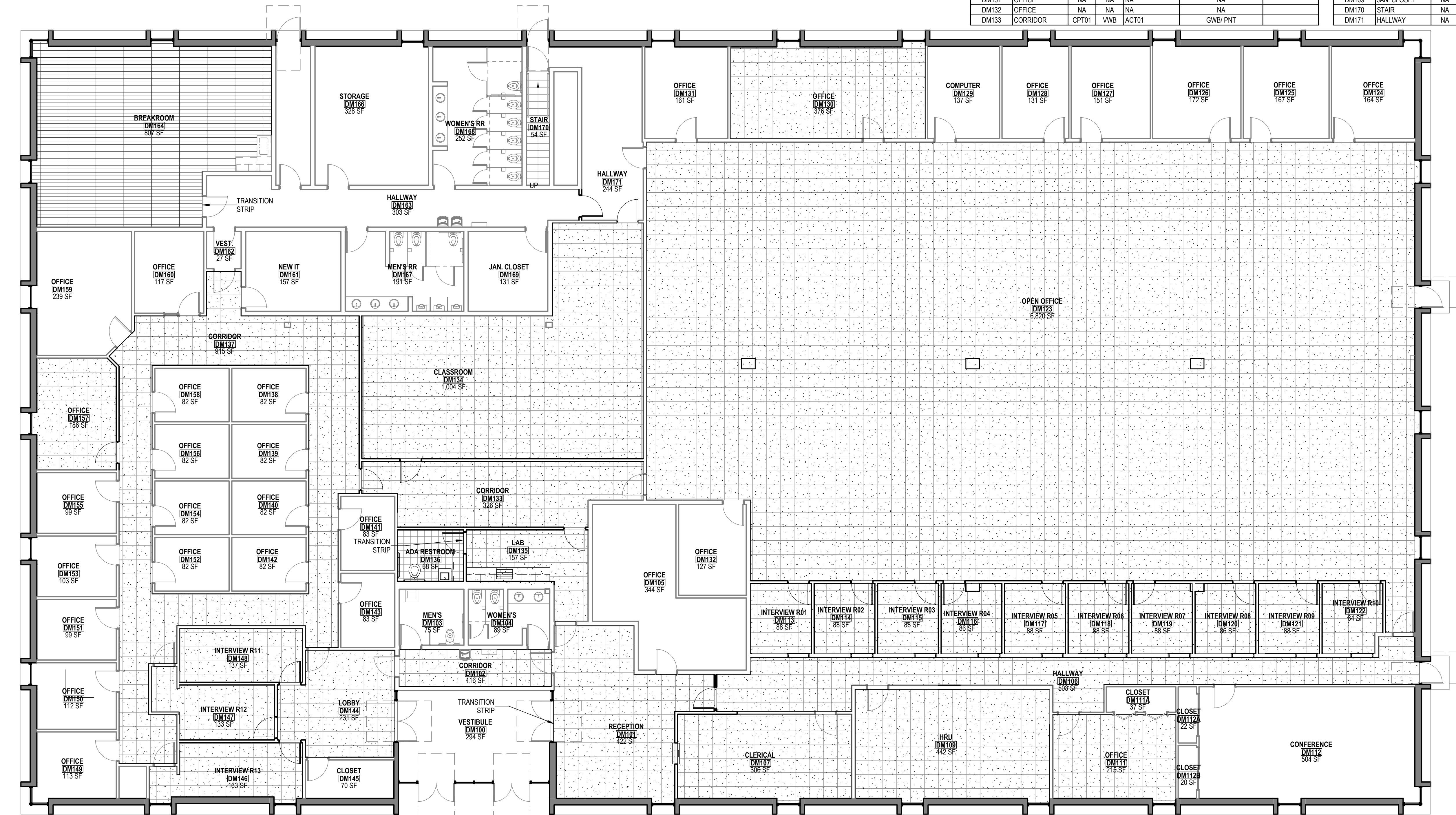
A104

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| ROOM   |               | FLOOR  |      | RDG Ceiling   | WALL FINISH           | NOTES |
|--------|---------------|--------|------|---------------|-----------------------|-------|
| NUMBER | NAME          | FINISH | BASE | Finish        | GENERAL               |       |
| DM002  | MECH. ROOM    | NA     | NA   | NA            | NA                    |       |
| DM003  | MECH. ROOM    | NA     | NA   | NA            | NA                    |       |
| DM004  | MECH. ROOM    | NA     | NA   | NA            | NA                    |       |
| DM100  | VESTIBULE     | NA     | NA   | EXISTING SLAT | EXISTING MELAMINE PNL |       |
| DM101  | RECEPTION     | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM102  | CORRIDOR      | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM103  | MEN'S         | NA     | NA   | NA            | GWBI/ PNT             |       |
| DM104  | WOMEN'S       | NA     | NA   | NA            | GWBI/ PNT             |       |
| DM105  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM106  | HALLWAY       | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM107  | CLERICAL      | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM109  | HRU           | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM111  | OFFICE        | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM111A | CLOSET        | NA     | NA   | NA            | NA                    |       |
| DM112  | CONFERENCE    | NA     | NA   | NA            | NA                    |       |
| DM112A | CLOSET        | NA     | NA   | NA            | NA                    |       |
| DM112B | CLOSET        | NA     | NA   | NA            | NA                    |       |
| DM113  | INTERVIEW R01 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM114  | INTERVIEW R02 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM115  | INTERVIEW R03 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM116  | INTERVIEW R04 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM117  | INTERVIEW R05 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM118  | INTERVIEW R06 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM119  | INTERVIEW R07 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM120  | INTERVIEW R08 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM121  | INTERVIEW R09 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM122  | INTERVIEW R10 | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM123  | OPEN OFFICE   | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |
| DM124  | OFFCE         | NA     | NA   | NA            | NA                    |       |
| DM125  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM126  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM127  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM128  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM129  | COMPUTER      | NA     | NA   | NA            | NA                    |       |
| DM130  | OFFICE        | CPT01  | VWB  | NA            | GWBI/ PNT             |       |
| DM131  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM132  | OFFICE        | NA     | NA   | NA            | NA                    |       |
| DM133  | CORRIDOR      | CPT01  | VWB  | ACT01         | GWBI/ PNT             |       |

| ROOM   |               | FLOOR  |      | RDG Ceiling | WALL FINISH         | NOTES |
|--------|---------------|--------|------|-------------|---------------------|-------|
| NUMBER | NAME          | FINISH | BASE | Finish      | GENERAL             |       |
| DM134  | CLASSROOM     | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM135  | LAB           | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM136  | ADA RESTROOM  | TILE01 | NA   | ACT01       | PNT + TILE WAINSCOT |       |
| DM137  | CORRIDOR      | CPT01  | VWB  | NA          | GWBI/ PNT           |       |
| DM138  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM139  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM140  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM141  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM142  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM143  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM144  | LOBBY         | CPT01  | VWB  | NA          | GWBI/ PNT           |       |
| DM145  | CLOSET        | NA     | NA   | NA          | NA                  |       |
| DM146  | INTERVIEW R13 | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM147  | INTERVIEW R12 | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM148  | INTERVIEW R11 | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM149  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM150  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM151  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM152  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM153  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM154  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM155  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM156  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM157  | OFFICE        | CPT01  | VWB  | ACT01       | GWBI/ PNT           |       |
| DM158  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM159  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM160  | OFFICE        | NA     | NA   | NA          | NA                  |       |
| DM161  | NEW IT        | NA     | NA   | NA          | GWBI/ PNT           |       |
| DM162  | VEST.         | NA     | NA   | NA          | NA                  |       |
| DM163  | HALLWAY       | NA     | NA   | NA          | NA                  |       |
| DM164  | BREAKROOM     | LVP    | VWB  | ACT01       | GWBI/ PNT           |       |
| DM165  | HALLWAY       | NA     | NA   | NA          | NA                  |       |
| DM166  | STORAGE       | NA     | NA   | NA          | NA                  |       |
| DM167  | MEN'S RR      | NA     | NA   | NA          | NA                  |       |
| DM168  | WOMEN'S RR    | NA     | NA   | NA          | NA                  |       |
| DM169  | JAN. CLOSET   | NA     | NA   | NA          | NA                  |       |
| DM170  | STAIR         | NA     | NA   | NA          | NA                  |       |
| DM171  | HALLWAY       | NA     | NA   | NA          | NA                  |       |



1 FINISH PLAN LEVEL 1  
1/8" = 1'-0"



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MOINES STREET RENOVATIONS

150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
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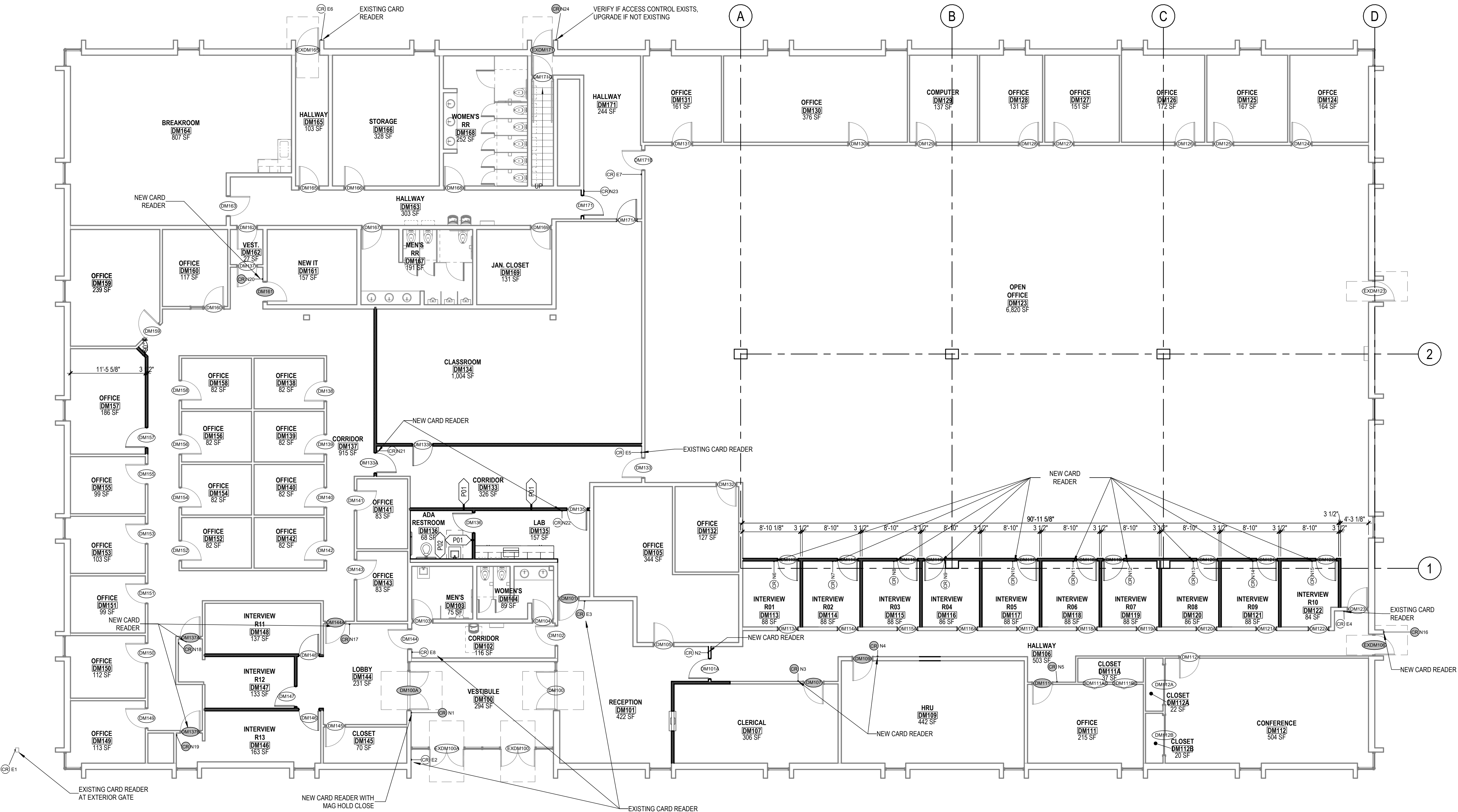
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FIRST FLOOR  
FINISHES

A105

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ACCESS CONTROL LEGEND

- CR E- EXISTING CARD READER- ON EXISTING DOOR.
- CR N- NEW CARD READER- ON NEW DOOR
- CR N- NEW CARD READER- ON EXISTING DOOR.

DOOR HARDWARE BY GENERAL CONTRACTOR,  
ACCESS CONTROL MODIFICATIONS BY OTHERS



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150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
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SHEET TITLE  
ACCESS  
CONTROL KEY  
PLAN

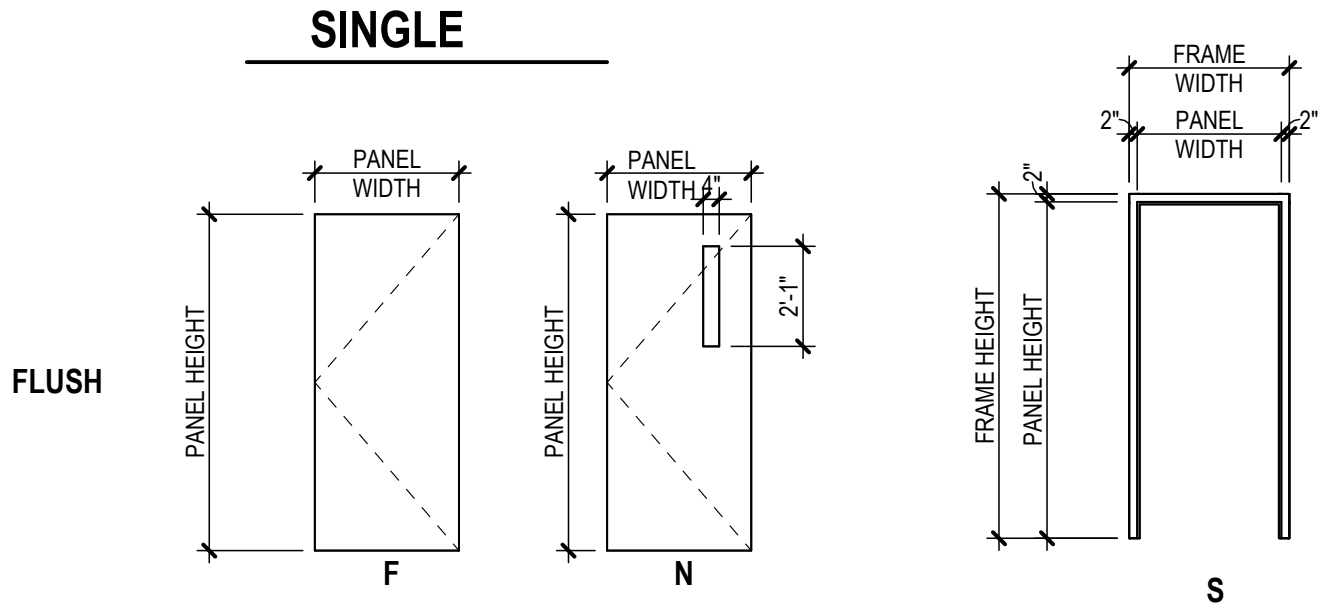
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| DOOR AND FRAME SCHEDULE |       |        |      |      |       |            |             |            |              |                |             |                                                              |
|-------------------------|-------|--------|------|------|-------|------------|-------------|------------|--------------|----------------|-------------|--------------------------------------------------------------|
| MARK                    | PANEL |        |      |      | FRAME |            | FIRE RATING | HARDWARE   |              |                |             | REMARKS                                                      |
|                         | WIDTH | HEIGHT | TYPE | MATL | MATL  |            |             | HDWR GROUP | PANIC DEVICE | ACCESS CONTROL | ELECTRIFIED |                                                              |
| LEVEL 1                 |       |        |      |      |       |            |             |            |              |                |             |                                                              |
| DM101A                  | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM113                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM113A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM114                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM114A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM115                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM115A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM116                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM116A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM117                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM117A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM118                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM118A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM119                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM119A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM120                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM120A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM121                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM121A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM122                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM122A                  | 3'-0" | 7'-0"  | F    | NA   | HM    | NA         |             |            |              |                |             |                                                              |
| DM133A                  | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM133B                  | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 02          |            |              |                |             |                                                              |
| DM135                   | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 01          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |
| DM136                   | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 06          |            |              |                |             |                                                              |
| DM146                   | 3'-0" | 7'-0"  | N    | WD   | HM    | NA         | 05          |            |              |                |             |                                                              |
| DM147                   | 3'-0" | 7'-0"  | N    | WD   | HM    | NA         | 05          |            |              |                |             |                                                              |
| DM148                   | 3'-0" | 7'-0"  | N    | WD   | HM    | NA         | 05          |            |              |                |             |                                                              |
| DM157                   | 3'-0" | 7'-0"  | F    | WD   | HM    | NA         | 02          |            |              |                |             |                                                              |
| DM171                   | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 01          |            | •            |                |             |                                                              |
| DM171A                  | 3'-0" | 7'-0"  | N    | WD   | HM    | 20 MINUTES | 02          |            |              | •              | •           | PREPARE FRAME FOR ELECTRIC STRIKE; ELECTRIC STRIKE BY OTHERS |

| WINDOW SCHEDULE |      |            |        |             |          |         |                    |
|-----------------|------|------------|--------|-------------|----------|---------|--------------------|
| LOCATION        |      | DIMENSIONS |        |             | FRAME    |         | Comments           |
| LEVEL           | MARK | WIDTH      | HEIGHT | SILL HEIGHT | MATERIAL | GLAZING |                    |
| LEVEL 1         | W01  | 3'-0"      | 3'-0"  | 3'-0"       |          |         | TRANSACTION WINDOW |



DOOR PANEL TYPE LEGEND

DOOR FRAME TYPE LEGEND

GENERAL DOOR AND WINDOW NOTES

THE FOLLOWING NOTES APPLY TO ALL SCHEDULED DOORS, FRAMES AND WINDOWS.

- DOOR FINISHES, NEW AND EXISTING:
  - HM DOORS AND FRAMES, INTERIOR
  - HM DOORS AND FRAMES, EXTERIOR
  - ALUMINUM DOORS AND FRAMES
  - WOOD DOORS
  - WOOD FRAMES
  - FRP DOOR AND FRAMES

PAINT  
GALVANIZE AND HPC  
FACTORY FINISH  
FACTORY FINISH  
TRANSPARENT FINISH  
FACTORY FINISH
- WINDOWS FINISHES, NEW AND EXISTING:
  - HM FRAMES, INTERIOR
  - ALUMINUM FRAMES
  - WOOD FRAMES

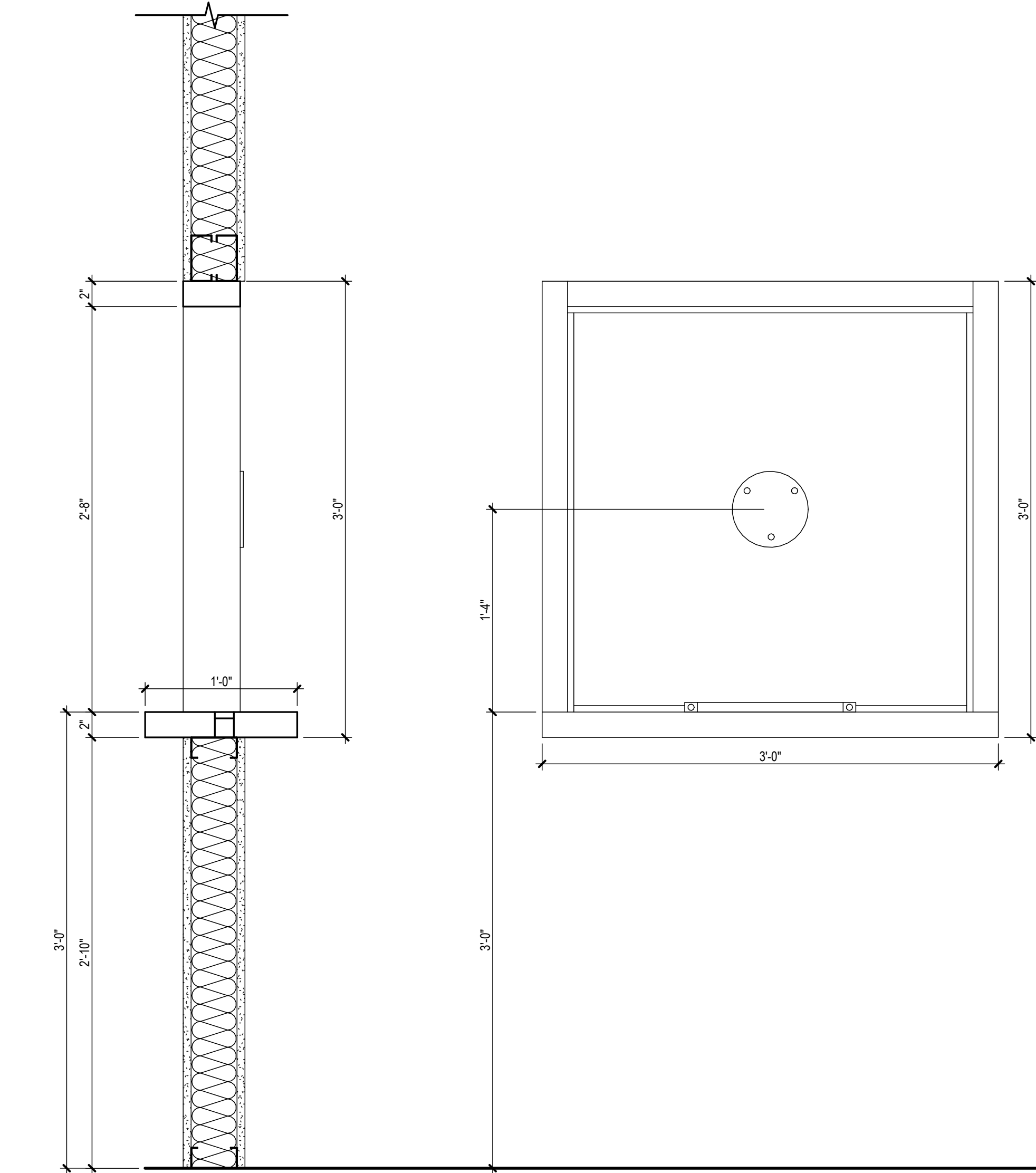
PAINT  
FACTORY FINISH  
TRANSPARENT FINISH
- SEE WALL TYPES SHEET AND FLOOR PLANS FOR WALL INFORMATION. FIELD VERIFY EXISTING WALLS FOR TYPE AND THICKNESS AND PROVIDE FRAMES ANCHORS AND THROAT DIMENSIONS TO CORRESPOND.
- HEAD, JAMB AND SILL DETAILS FOR DOORS AND BORROWED LIGHTS ARE TYPICAL TO THE WALL CONSTRUCTION THEY ARE PLACED IN. UNO. WHERE THE SCHEDULE DOES NOT INDICATE A HEAD, JAMB OR SILL DETAIL, THE TYPICAL DETAIL APPLIES.
- DOOR THICKNESS IS 1 3/4" UNO.
- EXISTING DOOR, FRAME, OR WINDOW REFINISHING IS **NOT** REQUIRED UNLESS INDICATED IN THE DOOR AND FRAME SCHEDULED REMARKS.
- IF THERE IS A CONFLICT BETWEEN THE HARDWARE SPECIFICATION AND THE DOOR SCHEDULE, THE DOOR SCHEDULE CONTROLS. VERIFY PRIOR TO CONSTRUCTION.

ELECTRIFIED DOOR HARDWARE ABBREVIATIONS

| ABBREVIATION | DESCRIPTION                                       |
|--------------|---------------------------------------------------|
| ACRB         | ACCESS CONTROL READER BATTERY                     |
| ACRE         | ACCESS CONTROL READER ELECTRIC                    |
| AEB          | ALARMED EXIT BATTERY                              |
| AEE          | ALARMED EXIT ELECTRIC                             |
| AO           | AUTOMATIC OPERATOR                                |
| DE           | DELAYED EGRESS                                    |
| DPS          | DOOR POSITION SWITCH                              |
| LE           | LOCKSET OR STRIKE ELECTRIC                        |
| MC           | MAGNETIC CLOSER / FIRE ALARM CONNECTION           |
| MH           | MAGNETIC HOLDER / FIRE ALARM CONNECTION           |
| ML           | MAGNETIC LOCK / FIRE ALARM CONNECTION / FAIL SAFE |
| PE           | PANIC ELECTRIC                                    |
| REX          | REQUEST TO EXIT                                   |

| EXISTING DOOR AND FRAME SCHEDULE |            |              |                |             |                                            |
|----------------------------------|------------|--------------|----------------|-------------|--------------------------------------------|
| MARK                             | HARDWARE   |              |                |             | REMARKS                                    |
|                                  | HDWR GROUP | PANIC DEVICE | ACCESS CONTROL | ELECTRIFIED |                                            |
| BASEMENT FLOOR LIFE SAFETY PLAN  |            |              |                |             |                                            |
| DM002                            |            |              |                |             |                                            |
| DM003                            |            |              |                |             |                                            |
| DM004                            |            |              |                |             |                                            |
| LEVEL 1                          |            |              |                |             |                                            |
| DM100                            |            |              |                |             |                                            |
| DM100A                           |            |              | •              | •           | ELECTRIC STRIKE BY OTHERS                  |
| DM101                            |            |              | •              | •           | EXISTING CARD READER                       |
| DM102                            |            |              |                |             |                                            |
| DM103                            |            |              |                |             |                                            |
| DM104                            |            |              |                |             |                                            |
| DM105                            |            |              |                |             |                                            |
| DM107                            | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM109                            | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM111                            | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM111A                           |            |              |                |             |                                            |
| DM111B                           |            |              |                |             |                                            |
| DM112                            |            |              |                |             |                                            |
| DM112A                           |            |              |                |             |                                            |
| DM112B                           |            |              |                |             |                                            |
| DM123                            |            |              | •              | •           | EXISTING CARD READER                       |
| DM124                            |            |              |                |             |                                            |
| DM125                            |            |              |                |             |                                            |
| DM126                            |            |              |                |             |                                            |
| DM127                            |            |              |                |             |                                            |
| DM128                            |            |              |                |             |                                            |
| DM129                            |            |              |                |             |                                            |
| DM130                            |            |              |                |             |                                            |
| DM131                            |            |              |                |             |                                            |
| DM132                            |            |              |                |             |                                            |
| DM133                            |            |              | •              | •           | EXISTING CARD READER                       |
| DM137                            |            |              |                |             |                                            |
| DM137A                           | 03         |              | •              | •           | NEW CARD READER-ELECTRIC STRIKE BY OTHERS  |
| DM137B                           | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM138                            |            |              |                |             |                                            |
| DM139                            |            |              |                |             |                                            |
| DM140                            |            |              |                |             |                                            |
| DM141                            |            |              |                |             |                                            |
| DM142                            |            |              |                |             |                                            |
| DM143                            |            |              |                |             |                                            |
| DM144                            |            |              | •              | •           | EXISTING CARD READER                       |
| DM144A                           | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM145                            |            |              |                |             |                                            |
| DM149                            |            |              |                |             |                                            |
| DM150                            |            |              |                |             |                                            |
| DM151                            |            |              |                |             |                                            |
| DM152                            |            |              |                |             |                                            |
| DM153                            |            |              |                |             |                                            |
| DM154                            |            |              |                |             |                                            |
| DM155                            |            |              |                |             |                                            |
| DM156                            |            |              |                |             |                                            |
| DM158                            |            |              |                |             |                                            |
| DM159                            |            |              |                |             |                                            |
| DM160                            |            |              |                |             |                                            |
| DM161                            | 03         |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| DM162                            |            |              |                |             |                                            |
| DM163                            |            |              |                |             |                                            |
| DM165                            |            |              |                |             |                                            |
| DM166                            |            |              |                |             |                                            |
| DM167                            |            |              |                |             |                                            |
| DM168                            |            |              |                |             |                                            |
| DM169                            |            |              |                |             |                                            |
| DM171B                           |            |              | •              | •           | EXISTING CARD READER                       |
| DM171C                           |            |              |                |             |                                            |
| EXDM100                          |            |              |                |             |                                            |
| EXDM100A                         |            |              | •              | •           | EXISTING CARD READER                       |
| EXDM106                          |            |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |
| EXDM123                          |            |              |                |             |                                            |
| EXDM165                          |            |              | •              | •           | EXISTING CARD READER                       |
| EXDM171                          |            |              | •              | •           | NEW CARD READER- ELECTRIC STRIKE BY OTHERS |

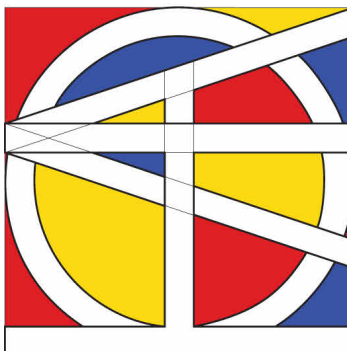
DOOR HARDWARE BY GENERAL CONTRACTOR,  
ALL OTHER WORK BY OWNER'S SEPARATELY  
CONTRACTED ACCESS CONTROL CONTRACTOR



1 TELLER WINDOW  
1/16" = 1'-0"

ISSUED FOR BIDDING

HORIZON  
ARCHITECTURE



DAS -9481.00- 5JD 150 DES  
MOINES STREET RENOVATIONS

150 DES MOINES ST.  
DES MOINES, IA 50309

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PROJECT NO: G24-041  
DATE: 08/20/2026  
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SHEET TITLE

DOOR AND  
WINDOW  
SCHEDULES

A601



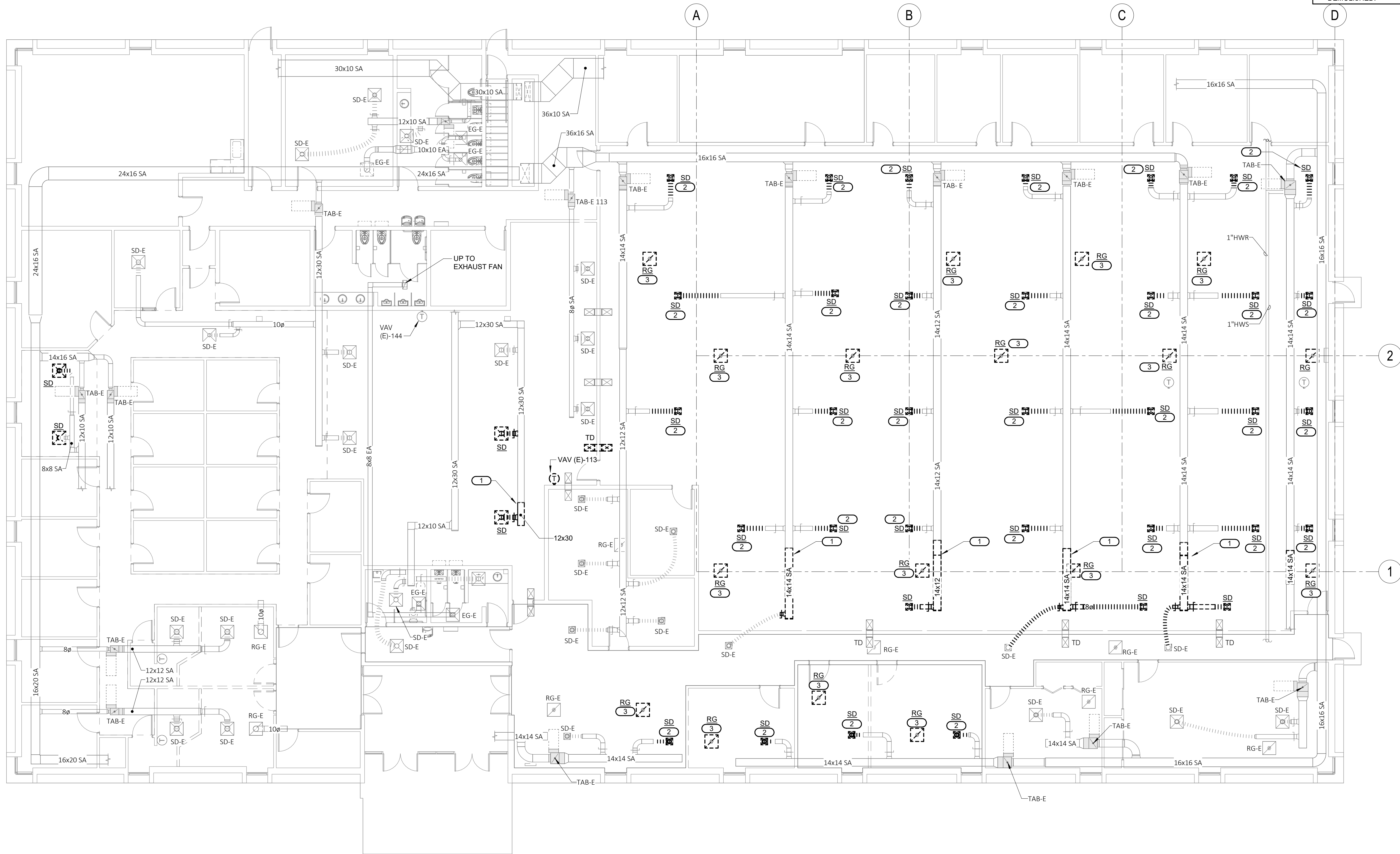
Autodesk Docs/25007315.00 - IDAS-Des Moines-DOC 5JD Renovation/MEP26\_25007315.00\_IDAS-Des Moines-DOC 5JD Renovation\_C.rvt



1

## LEVEL 01 DEMOLITION PLAN - HVAC

1/8" = 1'-0"



### KEYNOTES:

1. DEMOLISH DUCTWORK BACK TO THIS POINT. PREPARE FOR NEW CONNECTION.
2. BASE BID: EXISTING DIFFUSER SHALL BE REMOVED AND STORED TO BE REUSED. FLEX DUCT SHALL BE DEMOLISHED. ALTERNATE BID: DIFFUSER AND FLEX DUCTWORK SHALL BE DEMOLISHED. DUCTWORK SHALL BE PREPARED FOR NEW CONNECTION.
3. BASE BID: EXISTING DIFFUSER SHALL BE REMOVED AND STORED TO BE REUSED. ALTERNATE BID: DIFFUSER SHALL BE DEMOLISHED.



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100% CD



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MOINES STREET RENOVATIONS

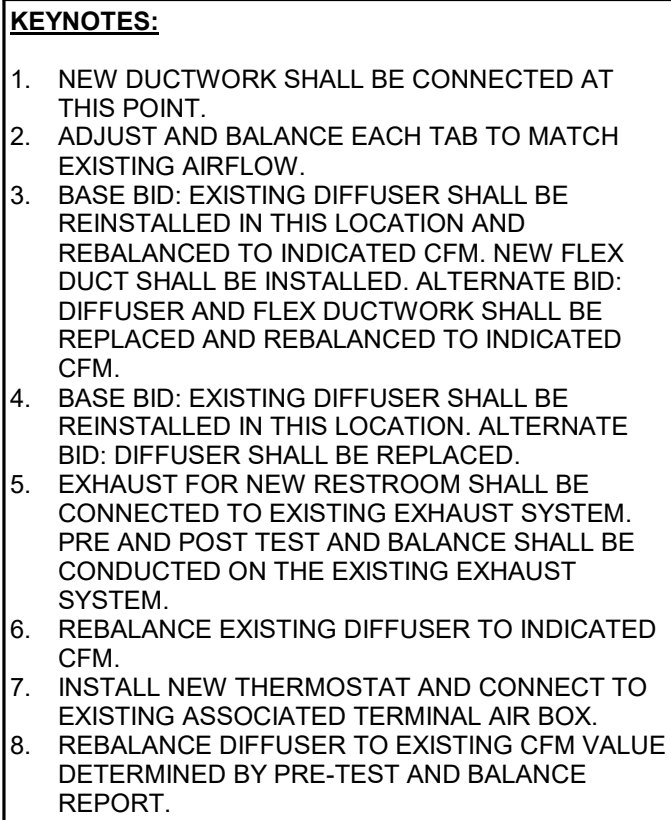
150 DES MOINES ST.  
DES MOINES, IA 50309

PROJECT NO: G24-041  
DATE: 09/02/2026  
DRAWN BY: PARPOL

### SHEET TITLE

LEVEL 01  
DEMOLITION  
PLAN - HVAC

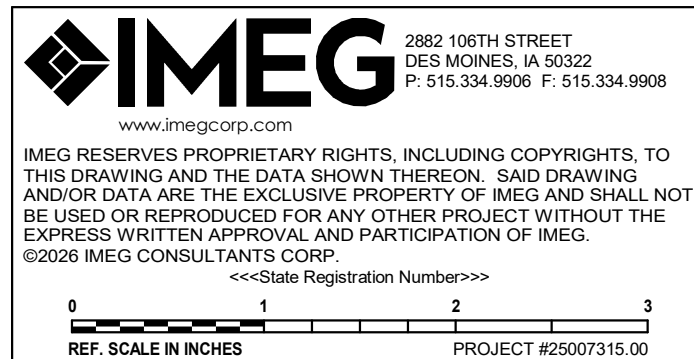
M111



150 DES MOINES ST.  
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**LEVEL 01  
PLAN - HVAC**

# M21 1



100% CD

AIR TERMINAL SCHEDULE (EG, RG, SD, etc.)

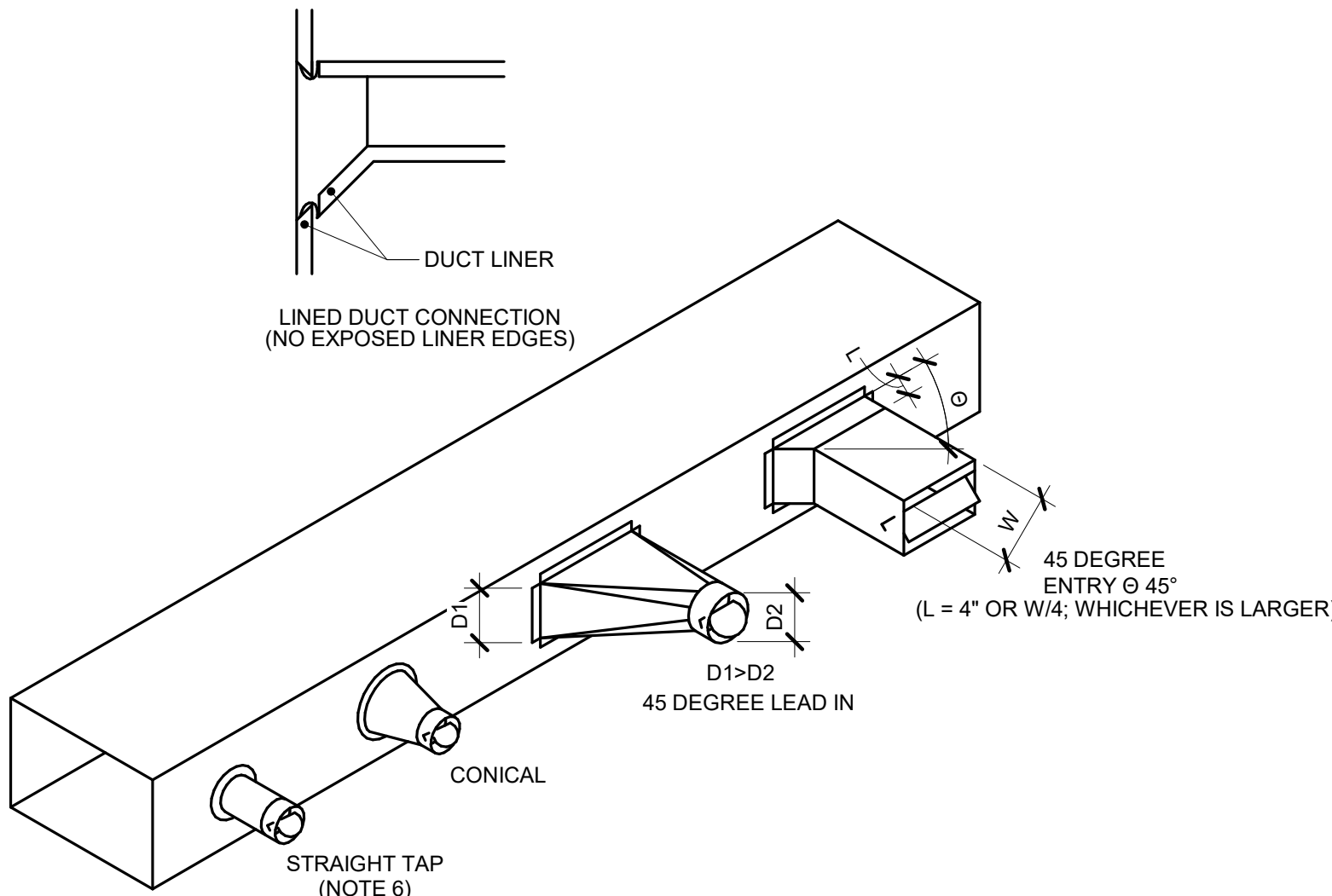
NOTES:  
1. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.  
2. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.

| TAG NAME | TYPE                 | MATERIAL | FINISH | FACE SIZE (NOTE 1,2) |     | BORDER (NOTE 3) | VOLUME DAMPER | MANUFACTURER | MODEL | NOTES       |
|----------|----------------------|----------|--------|----------------------|-----|-----------------|---------------|--------------|-------|-------------|
| EG-1     | 35 DEGREE DEFLECTION | STEEL    | WHITE  | 6"                   | 6"  | SURFACE MOUNT   | No            | TITUS        | 350   | LONG BLADES |
| RG-1     | PERFORATED           | STEEL    | WHITE  | 24"                  | 24" | LAY-IN          | No            | TITUS        | PXP   |             |
| SD-1     | PLAQUE               | STEEL    | WHITE  | 24"                  | 24" | LAY-IN          | No            | TITUS        | OMNI  |             |

LIFE SAFETY DAMPER SCHEDULE (FD)

NOTES:  
1. SIZES SHOWN ARE FOR THE CONTRACTORS CONVIENCE ONLY. CONTRACTOR SHALL VERIFY ALL FINAL DAMPER SIZES BASED ON COMPLETED INSTALLATION DRAWINGS.

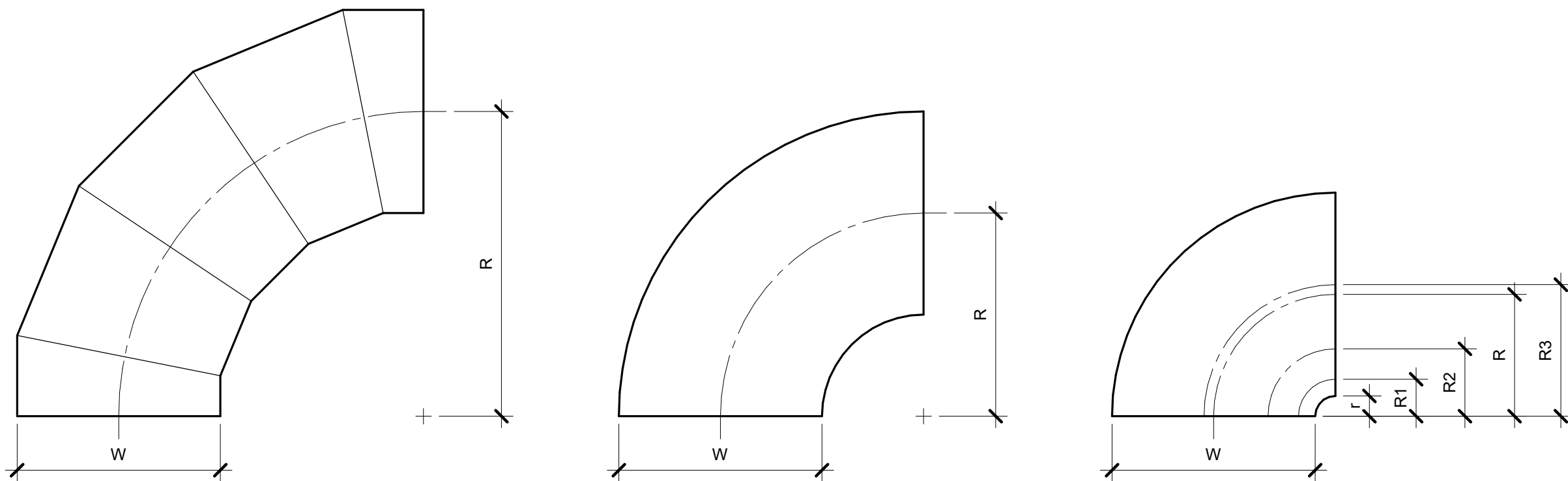
| TAG NAME | TYPE | ACCESS LEVEL | ACTUATOR FAIL POSITION |
|----------|------|--------------|------------------------|
| FD-1     | FD   | LEVEL 01     | NC                     |



NOTES:

- DO NOT USE CONNECTIONS WITH SCOOPS.
- FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SEAL SUITABLY FOR THE PRESSURE CLASS.
- ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4" W.G. AND OVER.
- REFER TO SPECIFICATIONS FOR VOLUME DAMPER REQUIREMENTS.
- OPENINGS SHALL BE CUT ACCURATELY (SHAPE AND SIZE).
- STRAIGHT TAPS ONLY ALLOWED DOWNSTREAM OF TERMINAL AIR BOX OR LOW PRESSURE (<2"W.C. PRESSURE CLASS)

3 DUCT - BRANCH CONNECTIONS  
NO SCALE

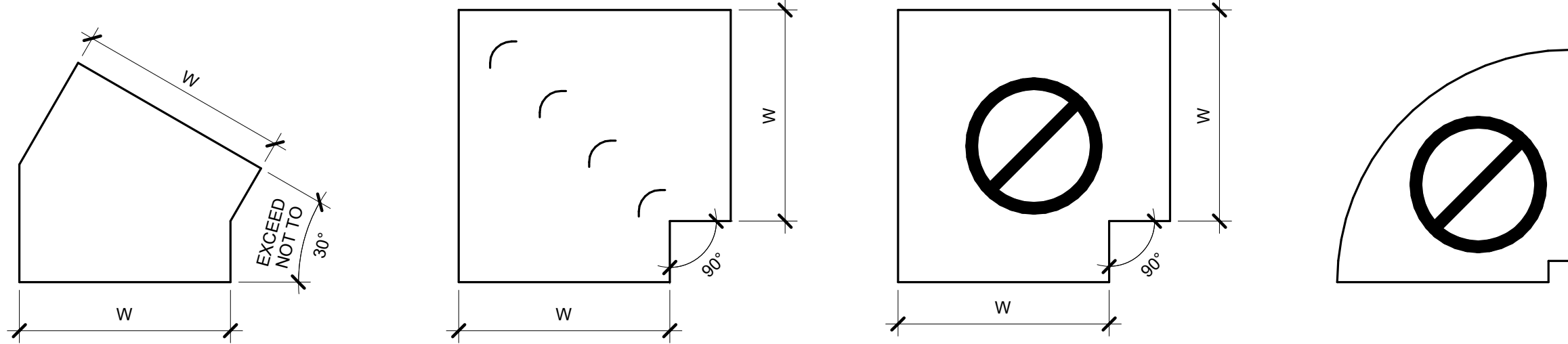


OVAL / ROUND  
RADIUS ELBOW  
SMOOTH OR 5 GORE (MINIMUM)  
R/W = 1.5 (MINIMUM)

RECTANGULAR  
RADIUS ELBOW  
TYPE RE1  
R/W = 1.0 (MINIMUM)  
R/W < 1.0 SHALL BE TYPE  
RE3

RECTANGULAR  
RADIUS ELBOW WITH VANES  
TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.



RECTANGULAR  
MITERED ELBOW  
TYPE RE6  
USE ONLY AS PART OF OFFSETS  
AND TRANSITIONS PER FIGURE 4-7  
TYPE 2 OR AS SHOWN ON  
DRAWINGS. OFFSETS ABOVE 30°  
SHALL BE TYPE RE1.

RECTANGULAR  
MITERED ELBOW  
WITH VANES  
TYPE RE2

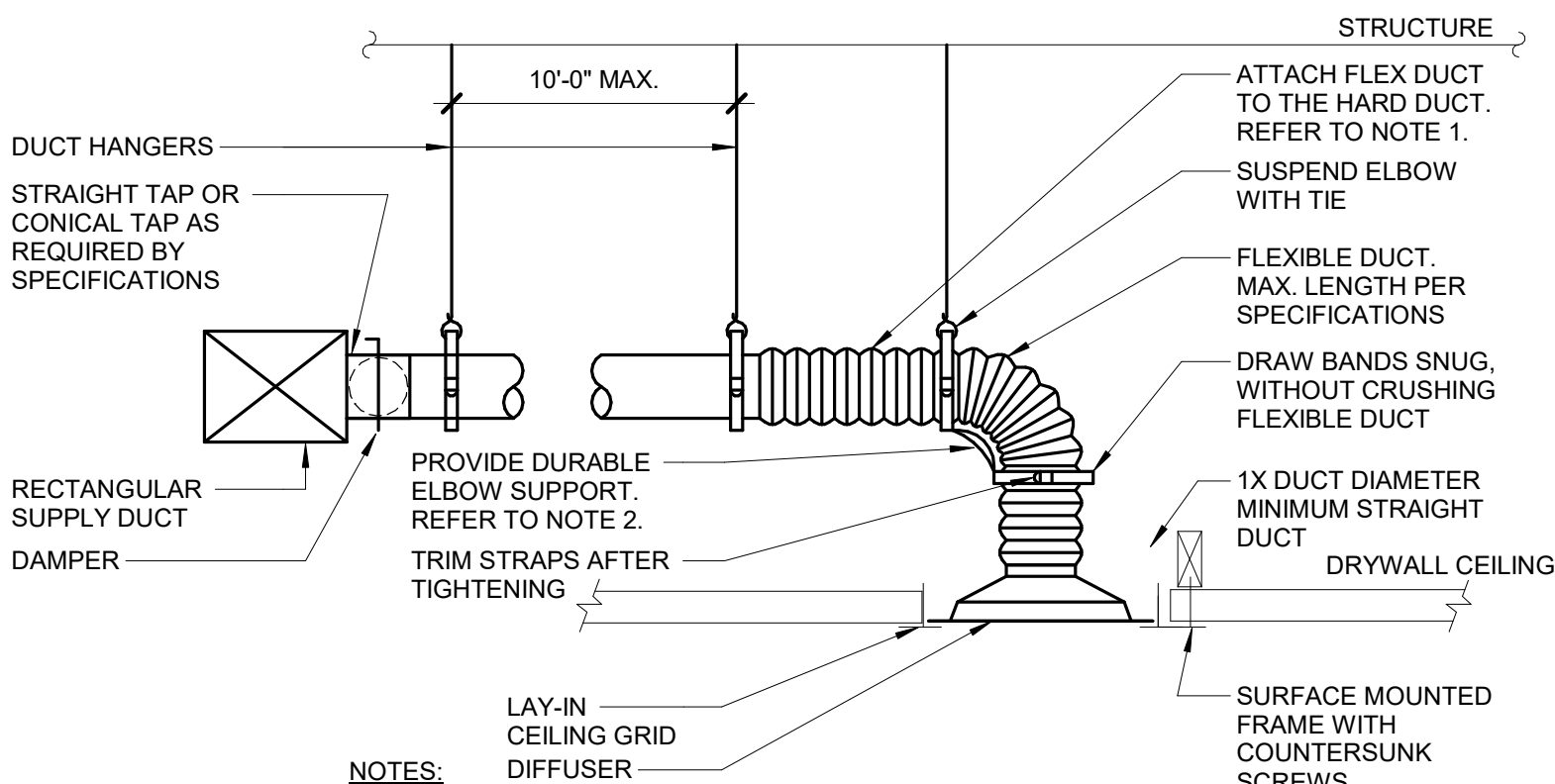
RECTANGULAR / OVAL / ROUND  
MITERED ELBOW  
WITHOUT VANES  
TYPE RE4  
NOT ALLOWED

RECTANGULAR  
RADIUS ELBOW WITH  
SQUARE THROAT  
NOT ALLOWED

NOTES:

- BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DEFAULT ELBOW SHALL BE TYPE "RE1".
- ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

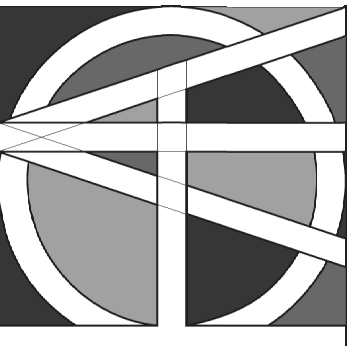
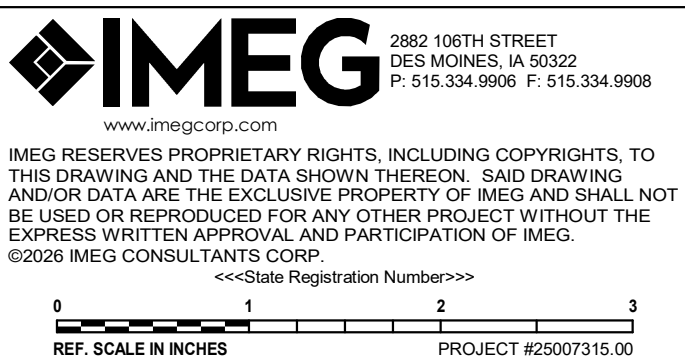
1 DUCT - ELBOW CONSTRUCTION  
NO SCALE



NOTES:

- TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS: ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
- DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

2 AIR TERMINAL - DIFFUSER CONNECTION (W/ RADIUS FORMING ELBOW)  
NO SCALE



| Mark | Date | Description |
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PROJECT NO: G24-041  
DATE: 09/02/2026  
DRAWN BY: PARPOL

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SHEET TITLE

HVAC DETAILS  
& SCHEDULES



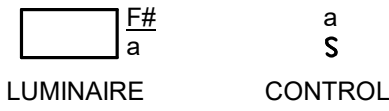
### LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. **STANDALONE LIGHTING CONTROL DEVICES:** INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.
2. **ROOM BASED LIGHTING CONTROLS:** INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.

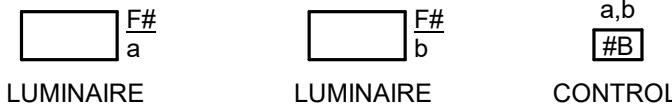
LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. **STANDALONE LIGHTING CONTROL DEVICES:** CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
  - A. **EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH"**
  - B. **EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT)**
  - C. **SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE**
  - D. **REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATION TAG (LS-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.**



2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.

- A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
- B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPR#", DESCRIPTION "ROOM BASED LIGHTING CONTROL PANEL/RACK/CABINET."
- C. EXAMPLE CONTROL DESIGNATIONS: a, b, c
- D. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" and "b" WITHIN THE SAME SPACE
- E. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATION TAG (L#-###) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.



### LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E600.

(#B) LIGHTING CONTROL STATION. THE "# INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

**LIGHTING CONTROL SUBSCRIPTS:**

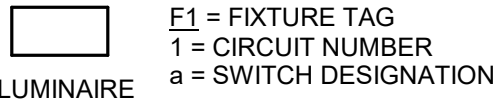
1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR (#B) ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.
2. LOWER CASE ALPHA NUMERIC SUBSCRIPTS "z1, z2, z3" INDICATE NETWORK BASED LIGHTING CONTROL SYSTEM.

REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE

## ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

| SYMBOL                                                                              | TAG | EQUIP ABBREV     | SPEC SECTION | DESCRIPTION                                                     |
|-------------------------------------------------------------------------------------|-----|------------------|--------------|-----------------------------------------------------------------|
| S                                                                                   | 3   | <u>SW-1P</u>     | 26 09 33     | SWITCH - SINGLE POLE                                            |
|                                                                                     |     | <u>SW-3W</u>     | 26 09 33     | SWITCH - THREE WAY                                              |
|  |     | <u>SW-OC-D</u>   | 26 09 33     | OCCUPANCY SENSOR - DUAL TECHNOLOGY                              |
|                                                                                     | A   | <u>SW-OC-U-A</u> | 26 09 33     | OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE       |
|                                                                                     | U   | <u>SW-OC-U</u>   | 26 09 33     | OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE               |
|  |     | <u>SW-#B</u>     | 26 09 33     | LIGHTING CONTROL STATION - RAISE, LOWER, FADE DIMMING (DEFAULT) |
|                                                                                     | S   | <u>SW-#B</u>     | 26 09 33     | LIGHTING CONTROL STATION - SWITCHED CONTROL                     |
|                                                                                     |     | <u>ALCR20</u>    | 26 09 33     | AUTOMATIC LOAD CONTROL RELAY                                    |
|  |     |                  |              |                                                                 |

## LUMINAIRE CIRCUIT AND CONTROL KEY



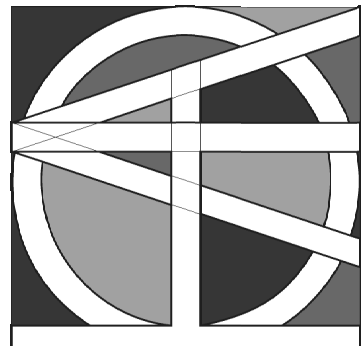
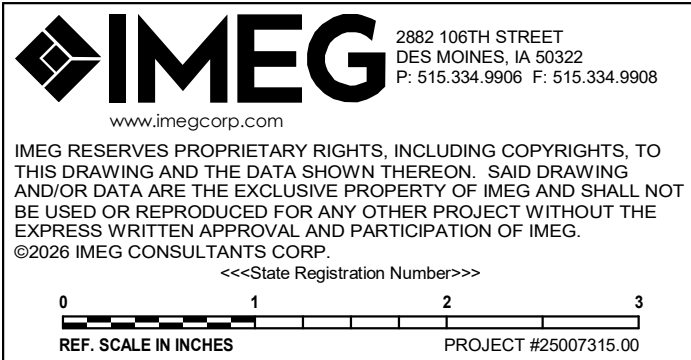
\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a

## LUMINAIRE SHADING KEY



## ELECTRICAL SYMBOL LIST

| SYMBOL:                                                                               | TAG:                        | SPEC SECTION: | DESCRIPTION:          |
|---------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------|
|    | REFER TO LUMINAIRE SCHEDULE |               | LINEAR LUMINAIRES     |
|    |                             |               | TROFFER               |
|    |                             |               | DOWNLIGHT LUMINAIRE   |
|    |                             |               | INDUSTRIAL LUMINAIRE  |
|    |                             |               | SINGLE FACE EXIT SIGN |
|    |                             |               | DOUBLE FACE EXIT SIGN |
|  |                             |               | EMERGENCY UNIT        |



**DAS -9481.00- 5JD 150 DES  
MOINES STREET RENOVATIONS**

150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
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| PROJECT NO: | G24-041    |
| DATE:       | 09/02/2026 |
| DRAWN BY:   | KENRAY     |

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## SHEET TITLE

# ELECTRICAL LIGHTING COVERSHEET

# E001

**FIRE ALARM SEQUENCES KEY:**

| <u>SUBSCRIPTS: TYPE/PROGRAMMING:</u> |                                     |
|--------------------------------------|-------------------------------------|
| WG                                   | WIRE GUARD IS REQUIRED              |
| W                                    | WEATHERPROOF                        |
| CR                                   | COMPUTER ROOM                       |
| D                                    | HVAC CONTROL                        |
| DH                                   | DOOR HOLD RELEASE                   |
| #                                    | 15, 30, 75, 110, 177 CANDELA RATING |

## ELECTRICAL SYMBOL LIST - FIRE ALARM

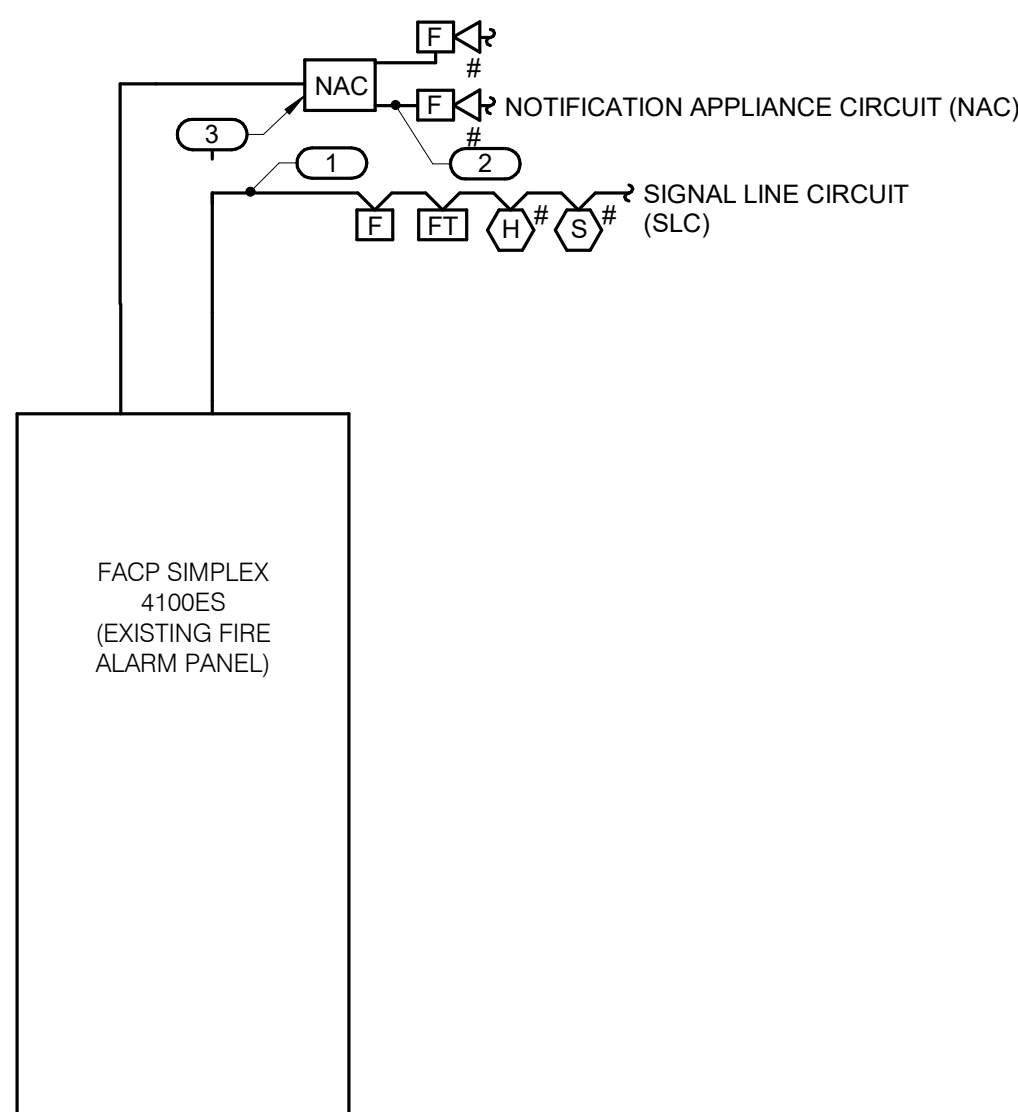
| SYMBOL                                                                                   | TAG | EQUIP<br>ABBREV | SPEC<br>SECTION | DESCRIPTION                                                                        |
|------------------------------------------------------------------------------------------|-----|-----------------|-----------------|------------------------------------------------------------------------------------|
| #<br> |     | <u>FA-120</u>   | 28 31 00        | SMOKE DETECTOR - PHOTOELECTRIC                                                     |
| #<br> | ##  | <u>FA-200</u>   | 28 31 00        | VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING                                  |
| #<br> | ##  | <u>FA-211</u>   | 28 31 00        | COMBINATION AUDIO (HORN/CHIME) / VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING |
| #<br> | ##  | <u>FA-211</u>   | 28 31 00        | COMBINATION AUDIO (HORN/CHIME) / VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING |
| #<br> | LC  | <u>FA-161</u>   | 28 31 00        | ADDRESSABLE CONTROL MODULE - LIGHTING CONTROL MODULE                               |

## SUGGESTED MATRIX OF RESPONSIBILITY

| ITEM:                                                                                         | SHOWN ON: | FURNISHED BY: | INSTALLED BY: | NOTES: |
|-----------------------------------------------------------------------------------------------|-----------|---------------|---------------|--------|
| TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION | T-SERIES  | E.C.          | E.C.          | 3. 4.  |
| INFORMATION OUTLET FACEPLATES, JACKS, ANTERMINATIONS                                          | T-SERIES  | OTHERS        | OTHERS        |        |
| CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)                                                      | T-SERIES  | E.C.          | E.C.          |        |
| CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)                    | N/A       | T.C.          | T.C.          | 2. 4.  |
| TELECOMMUNICATION SYSTEMS ROUGH-IN                                                            | T-SERIES  | E.C.          | E.C.          | 1.     |
| TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS                                        | T-SERIES  | OTHERS        | OTHERS        |        |
| LINE VOLTAGE POWER (*120V OR GREATER)                                                         | E-SERIES  | OTHERS        | OTHERS        |        |
| LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)                 | N/A       | OTHERS        | OTHERS        | 2. 4.  |
| LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES                                           | ARCH SPEC | OTHERS        | OTHERS        |        |
| LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS                                                    | T-SERIES  | OTHERS        | OTHERS        |        |
| CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS                                     | T-SERIES  | T.C.          | T.C.          | 5.     |

## SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF FIELD CONDITIONS SHALL BE AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.



NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE CONTRACTOR SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PENUMA RATED CABLE IS REQUIRED.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ANY NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.

**KEYNOTES:** #

1. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
3. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.

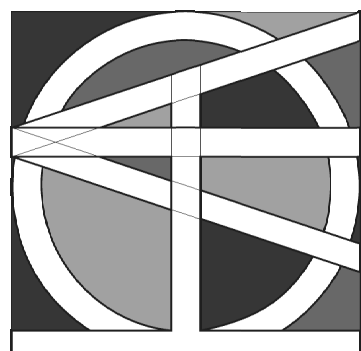
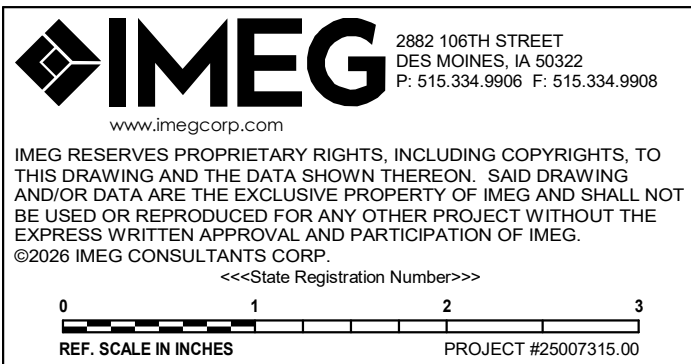
## 2 FIRE ALARM RISER

NO SCALE

| SYSTEM INPUTS \ SEQUENCE OF OPERATION |                                                                                                                                                                             | PANEL/ANNUNCIATOR ALARM INDICATION | PANEL/ANNUNCIATOR SUPERVISORY INDICATION | PANEL/ANNUNCIATOR TROUBLE INDICATION | AUDIBLE ALARMS SEQUENCE | VISUAL ALARMS SEQUENCE |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|--------------------------------------|-------------------------|------------------------|
| MANUAL PULL STATION                   |   | <b>X</b>                           |                                          |                                      | <b>X</b>                | <b>X</b>               |
| SMOKE DETECTOR                        |  #1                                                                                    | <b>X</b>                           |                                          |                                      | <b>X</b>                | <b>X</b>               |
| HEAT DETECTOR                         |  #1                                                                                    | <b>X</b>                           |                                          |                                      | <b>X</b>                | <b>X</b>               |

## FIRE ALARM OPERATION MATRIX

NO SCALE



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| DATE:       | 09/02/2026 |
| DRAWN BY:   | KENRAY     |

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## SHEET TITLE

# ELECTRICAL SYSTEMS COVERSHEET

# E002

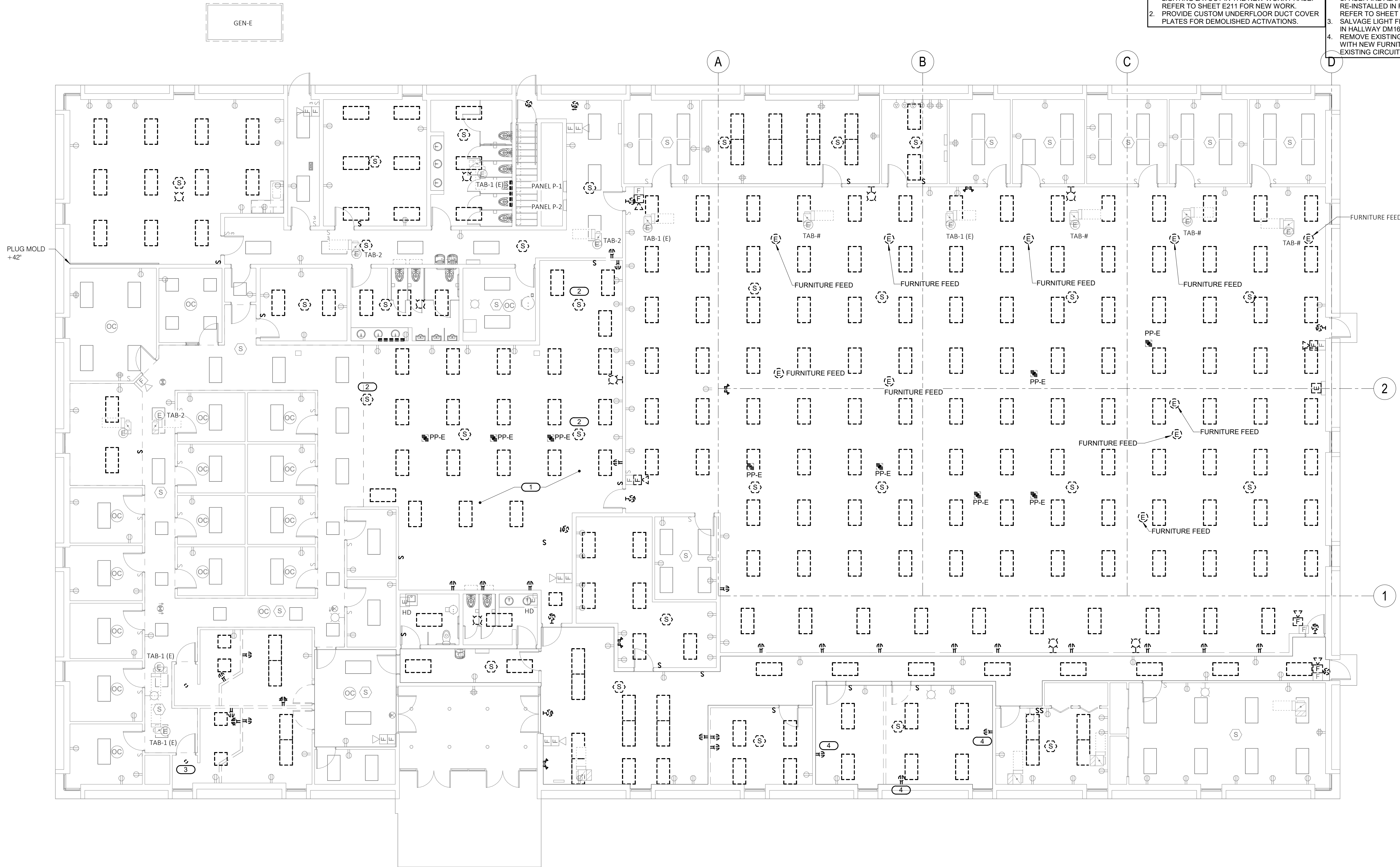
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1

## LEVEL 01 DEMOLITION PLAN - ELECTRICAL

1/8" = 1'-0"



### SHEET NOTES:

1. ALL EXISTING LIGHTING CIRCUITS IN ROOMS WHERE LIGHT FIXTURES ARE BEING REMOVED SHALL REMAIN IN SPACE. EXISTING LIGHTING CIRCUITS SHALL BE EXTENDED AND RECONFIGURED TO ACCOMMODATE THE NEW LIGHTING LAYOUT IN THE NEW WORK PHASE. REFER TO SHEET E211 FOR NEW WORK.
2. PROVIDE CUSTOM UNDERFLOOR DUCT COVER PLATES FOR DEMOLISHED ACTIVATIONS.

### KEYNOTES: #

1. SALVAGE LIGHT FIXTURES IN SPACE. LIGHT FIXTURES TO BE RE-INSTALLED IN RECONFIGURED SPACE REFER TO SHEET E211 FOR NEW WORK.
2. SALVAGE FIRE ALARM DETECTION DEVICES IN SPACE. FIRE ALARM DETECTION DEVICES TO BE RE-INSTALLED IN RECONFIGURED SPACE. REFER TO SHEET E211 FOR NEW WORK.
3. SALVAGE LIGHT FIXTURE FOR REINSTALLATION IN HALLWAY DM163.
4. REMOVE EXISTING RECEPTACLE AND REPLACE WITH NEW FURNITURE WHIP CONNECTED TO EXISTING CIRCUIT.



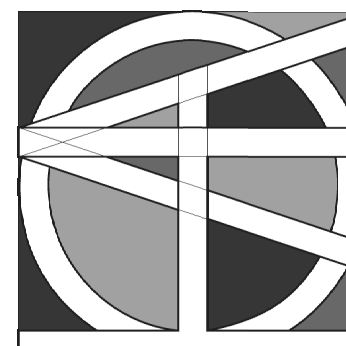
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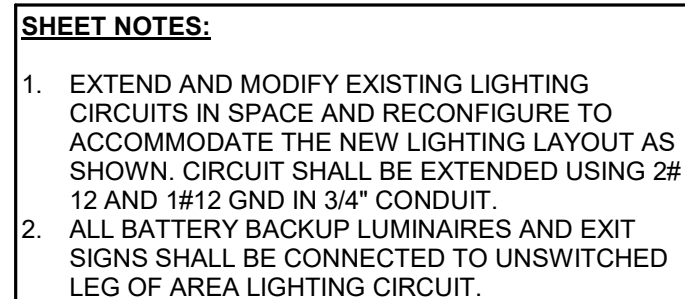
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### SHEET TITLE

LEVEL 01  
DEMOLITION  
PLAN -  
ELECTRICAL

# E101

$$1/8'' = 1'-0''$$


**KEYNOTES:** #

1. REUSE THE EXISTING FIXTURES SALVAGED IN DEMO PHASE FROM THIS AREA. REFER TO SHEET E101 FOR DEMO WORK.
2. INSTALL SALVAGED RECESSED DOWNLIGHT.



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SHEET TITLE

**LEVEL 01  
PLAN -  
LIGHTING**

# E211

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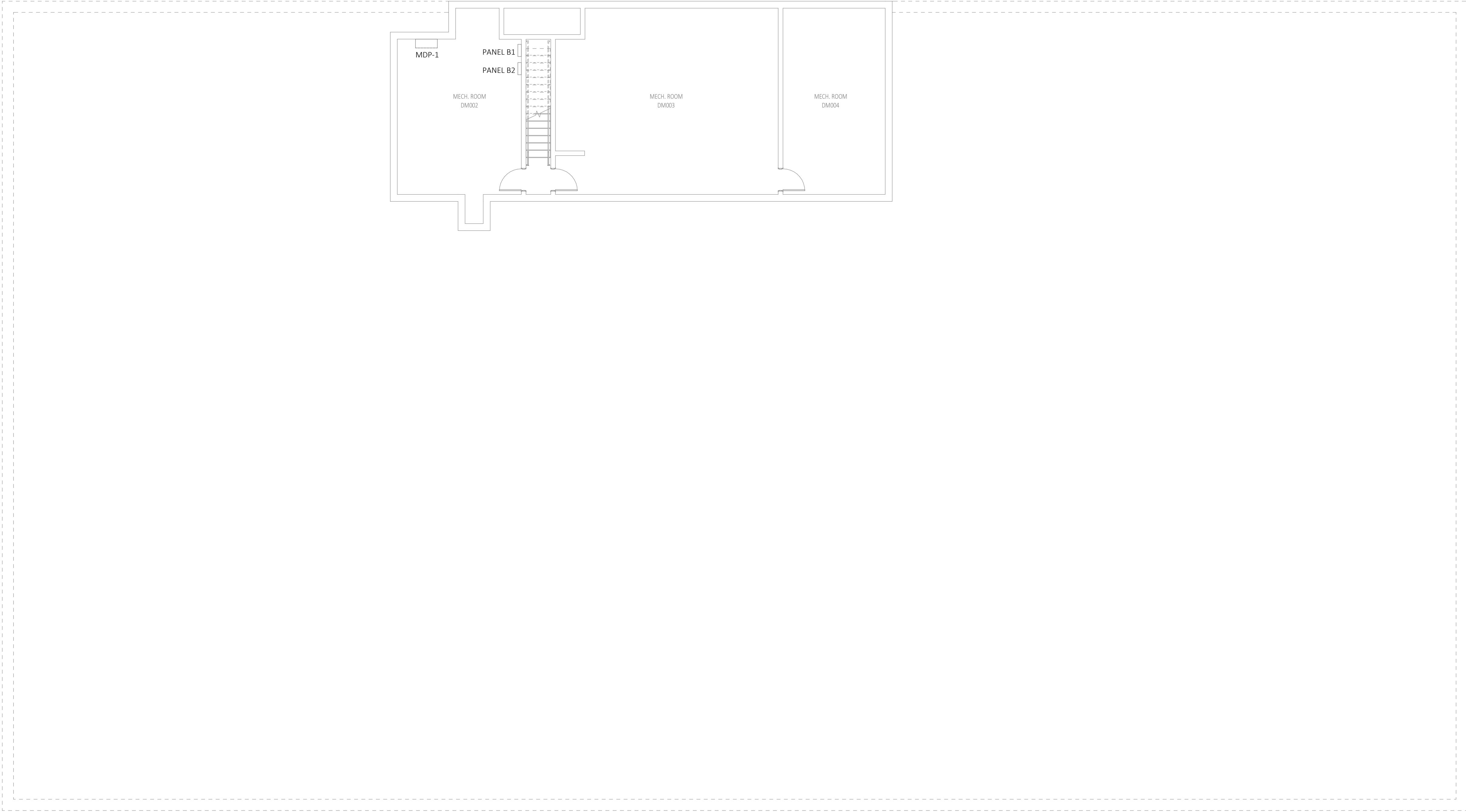
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2

BASEMENT PLAN - POWER (REFERENCE ONLY)

1/8" = 1'-0"



SHEET NOTES:

1. CONTENT SHOWN FOR EQUIPMENT LOCATION REFERENCE ONLY.



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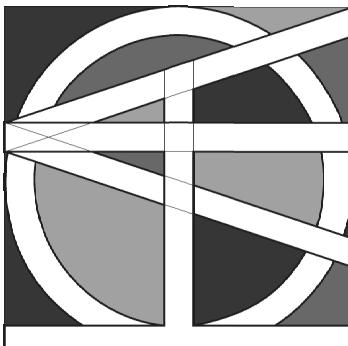
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SHEET TITLE

BASEMENT  
PLAN - POWER

E220

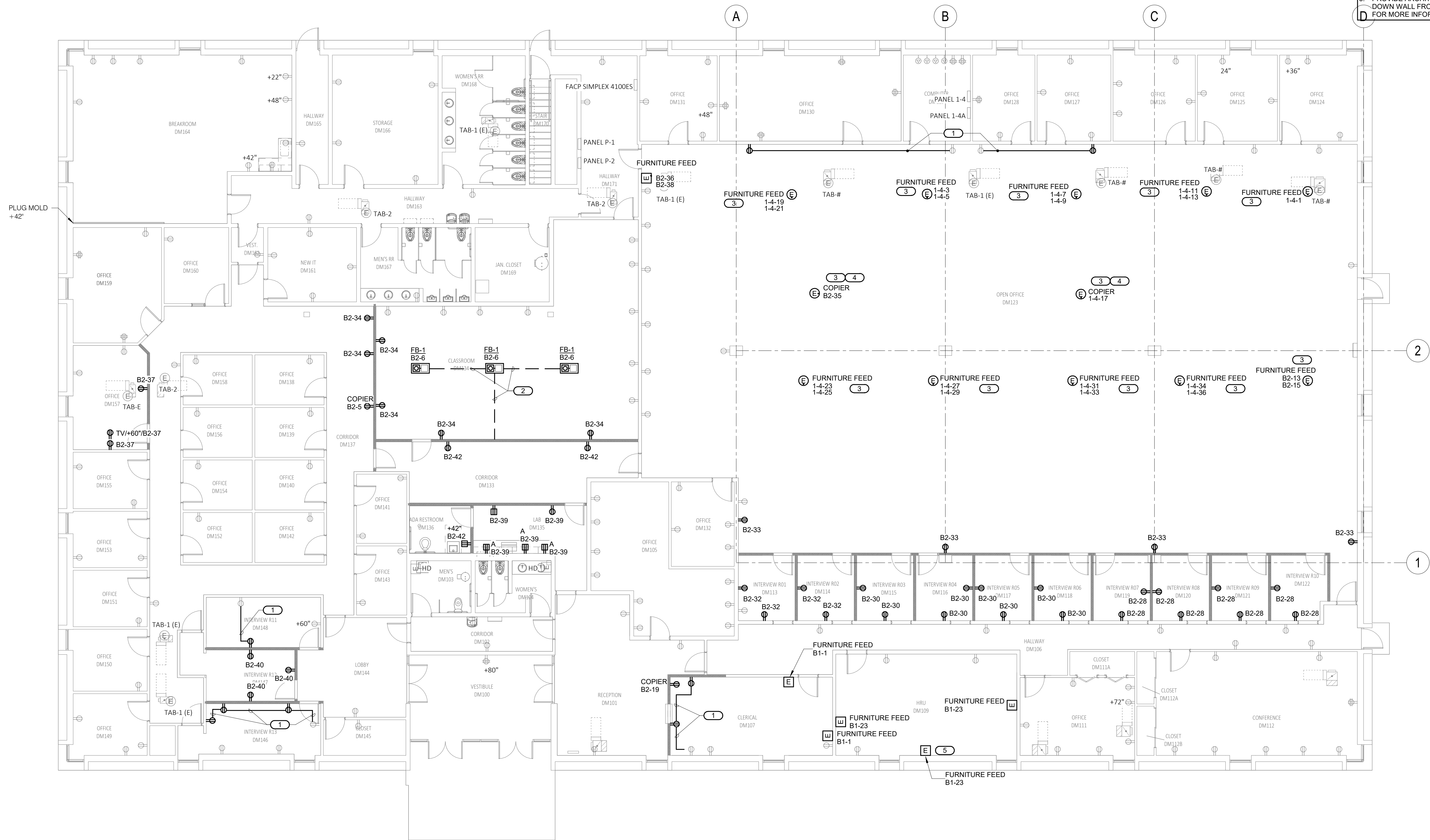
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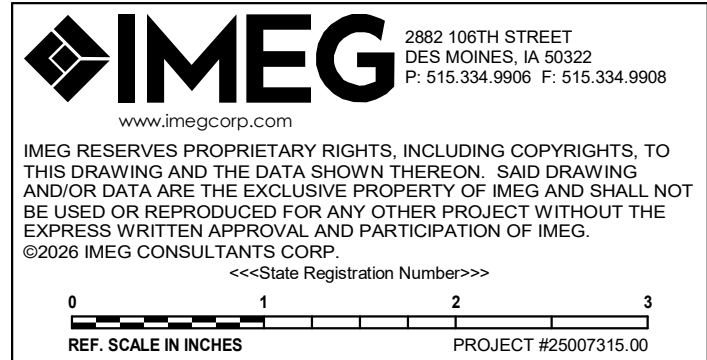
## LEVEL 01 PLAN - POWER

1/8" = 1'-0"



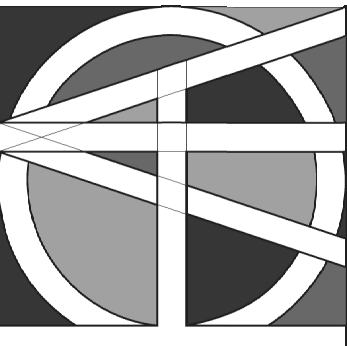
### KEYNOTES: (#)

1. EXTEND EXISTING CIRCUIT TO NEW RECEPTACLE USING 2#12 & 1#12 EGC IN 3/4" CONDUIT.
2. ONE 3/4" C FOR POWER AND ONE 1" C FOR DATA TO WALL AND TO ABOVE CEILING. SAW CUT CONCRETE AND PATCH TO MATCH EXISTING FINISH.
3. COORDINATE EXACT LOCATION OF FURNITURE PROVIDED POWER POLES WITH OWNER.
4. UTILIZE FURNITURE PATHWAYS FOR COPIER CIRCUIT.
5. PROVIDE ARCHITECTURAL SURFACE RACEWAY DOWN WALL FROM CEILING. REFER TO 26 05 35 FOR MORE INFORMATION.



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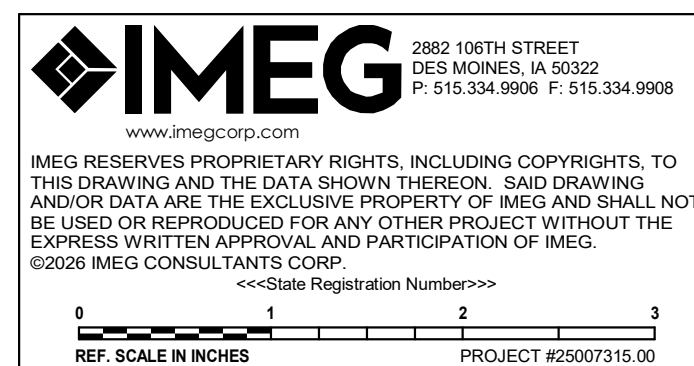
LEVEL 01  
PLAN - POWER

# E221

## **LEVEL 01 PLAN - SYSTEMS**

$$1/8'' = 1'-0''$$


1. INSTALL SALVAGED FIRE ALARM DEVICES.



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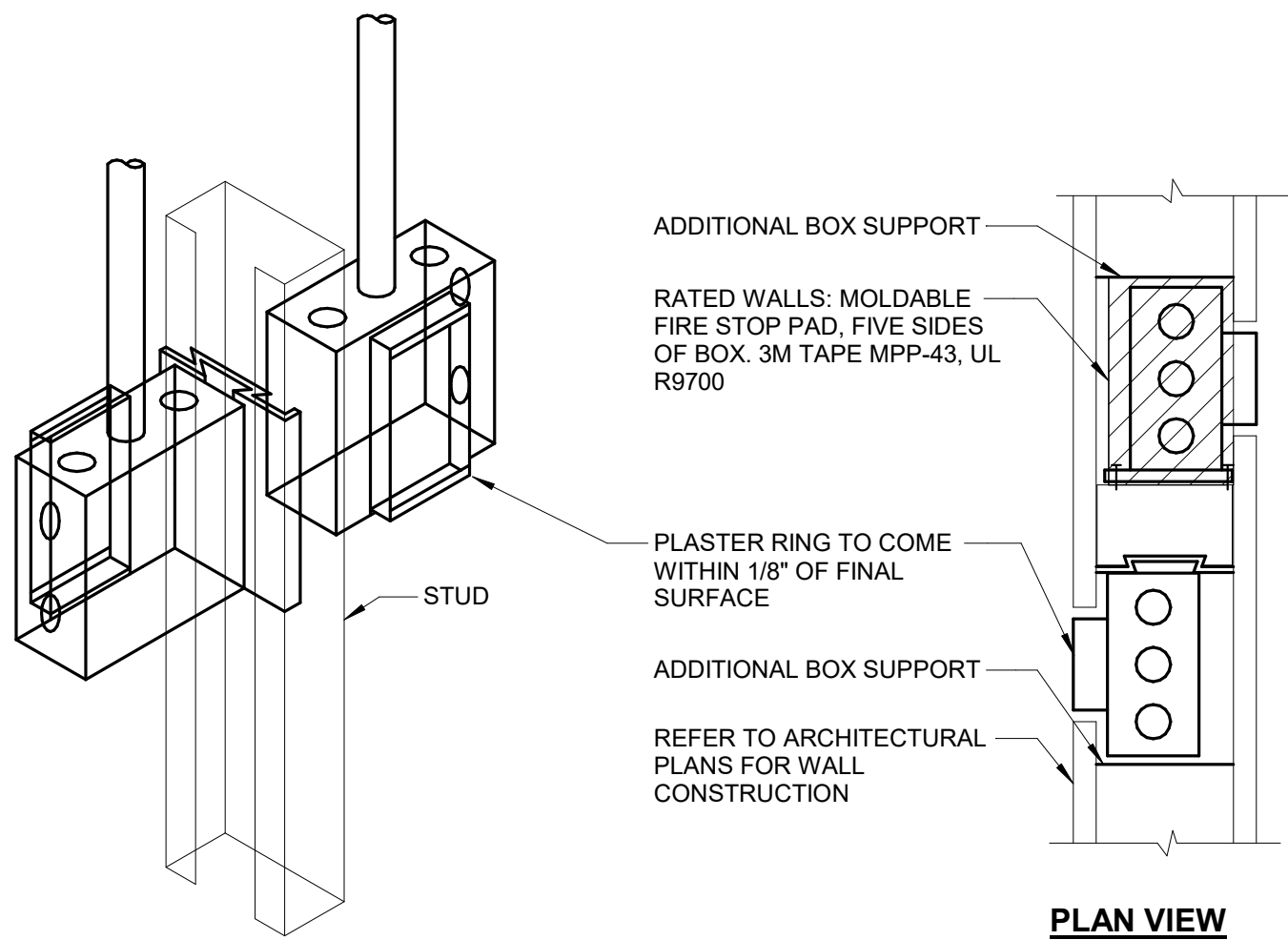
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## LEVEL 01 PLAN - SYSTEMS

# E231

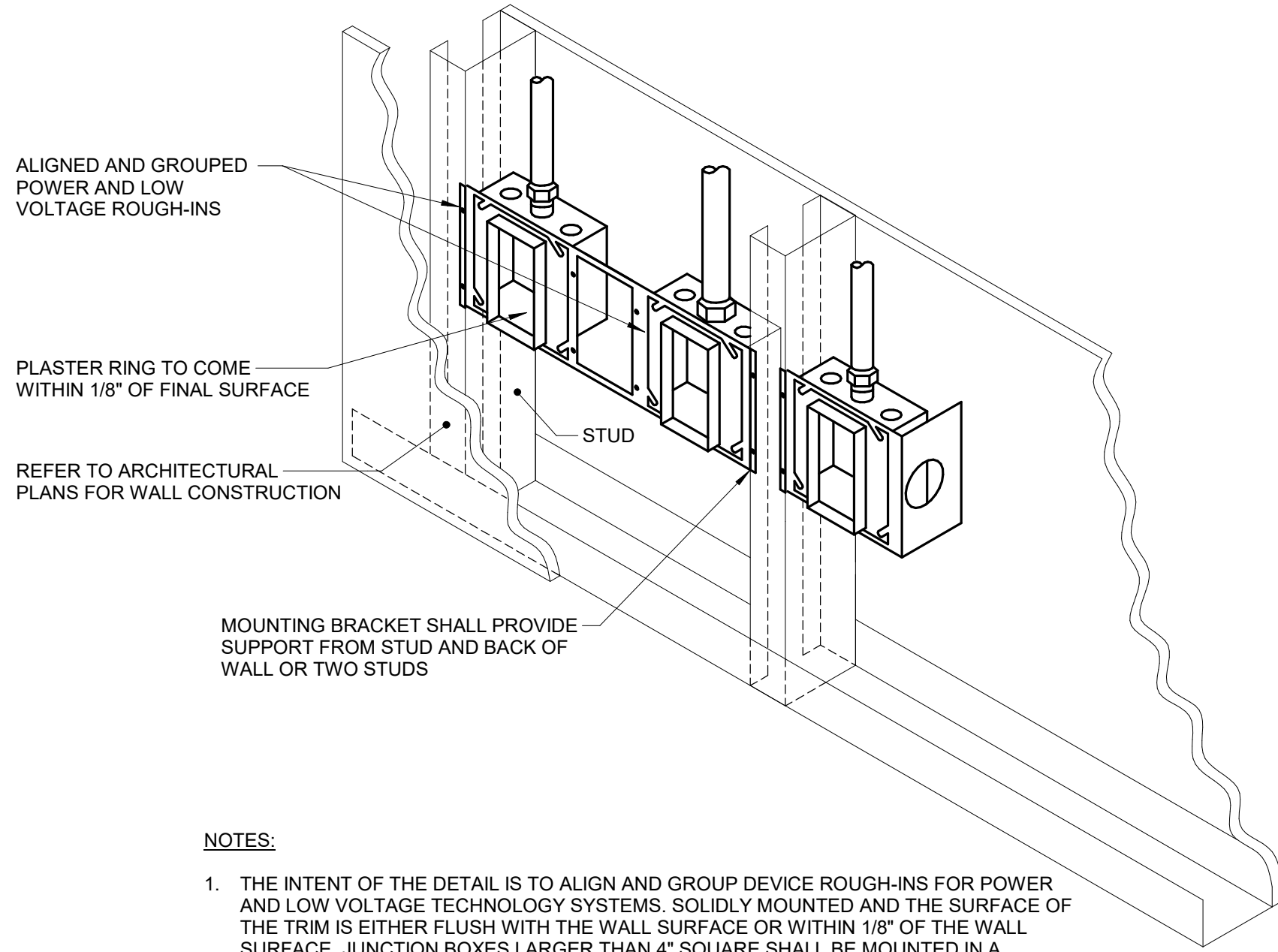
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- NOTES:
- HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.

### 1 SIDE BY SIDE DEVICE OPENINGS

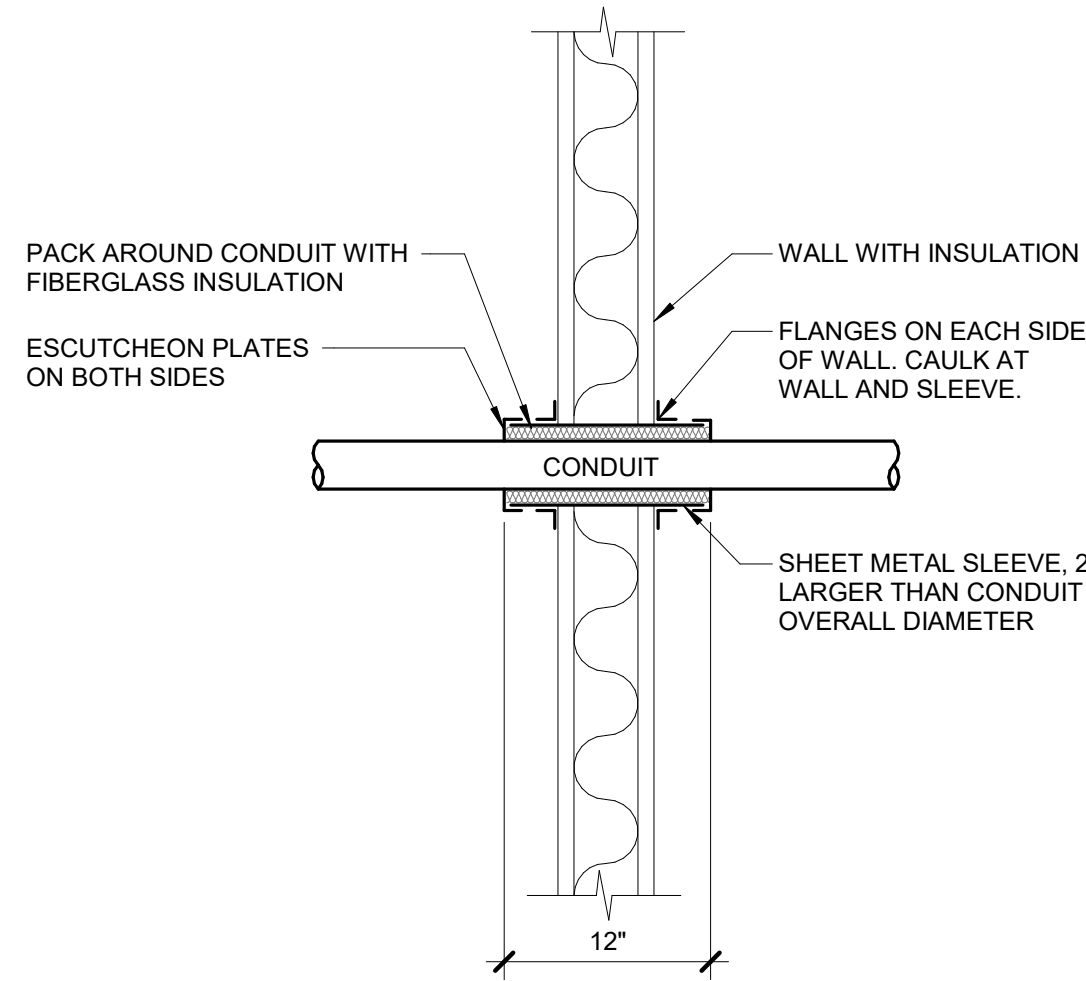
NO SCALE



- NOTES:
- THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
  - PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
  - METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
  - MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
  - WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.

### 2 BACKBOX MOUNTING DETAIL

NO SCALE



### 3 CONDUIT WALL PENETRATION

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ELECTRICAL  
DETAILS

E400



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|                                                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|----------------|-------------------------------------------------------------------|-----------------------|---------|------------------|----------|------------------------------|---------|-----------------------|--------------|------------------------------|----------------------------------------------------------------------------------------|-------------|--|--|------------|--|
| MOUNTING: SURFACE<br>ENCLOSURE: NEMA 1<br>FED FROM: .<br>LOCATION:                                                                |                |                  |                | PANEL 1-4 (EXISTING)<br>SINGLE TUB<br>SOLID NEUTRAL<br>GROUND BUS |                       |         |                  |          |                              |         |                       |              |                              | MAIN: 225 MCB<br>VOLTS: 120/208 Wye<br>PHASE: 3<br>WIRE: 4<br>SCCR: .<br>ISC UNKNOWN . |             |  |  |            |  |
| NOTES: EXISTING SQUARE D PANEL.                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| K<br>E<br>Y                                                                                                                       | CK<br>T<br>NO. | LOAD DESCRIPTION | OCPD<br>AMPS   | P                                                                 | WIRE<br>SIZE<br>H N G | VD<br>% | A                | B        | C                            | VD<br>% | WIRE<br>SIZE<br>G N H | OCPD<br>AMPS | LOAD DESCRIPTION             | CK<br>T<br>NO.                                                                         | K<br>E<br>Y |  |  |            |  |
| *EB                                                                                                                               | 1              | PP-1, RM-DM123   | 20             | 1                                                                 | 10 10 10 1.96         | 1.5     | 0                |          |                              |         |                       | 1            | 20 LIGHTING                  | 2                                                                                      |             |  |  |            |  |
| *TA                                                                                                                               | 3              | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 1.53         |         |                  | 1.5      | 0                            |         |                       | 1            | 20 LIGHTING                  | 4                                                                                      |             |  |  |            |  |
| *TA                                                                                                                               | 5              | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 1.54         |         |                  |          |                              | 1.5     | 0                     | 1            | 20 OUTLETS RM114             | 6                                                                                      |             |  |  |            |  |
| *TB                                                                                                                               | 7              | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 1.9          | 1.5     | 0                |          |                              |         |                       | 1            | 20 OUTLETS RM114             | 8                                                                                      |             |  |  |            |  |
| *TB                                                                                                                               | 9              | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 1.9          |         |                  | 1.5      | 0                            |         |                       | 1            | 20 LIGHTING                  | 10                                                                                     |             |  |  |            |  |
| *TC                                                                                                                               | 11             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.65         |         |                  |          |                              | 1.5     | 0                     | 1            | 20 LIGHTING                  | 12                                                                                     |             |  |  |            |  |
| *TC                                                                                                                               | 13             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.65         | 1.5     | 0                |          |                              |         |                       | 1            | 20 LIGHTING                  | 14                                                                                     |             |  |  |            |  |
| *NB                                                                                                                               | 15             | SPARE            | 20             | 1                                                                 | 12 12 12 2.51         |         |                  | 0        | 0                            |         |                       | 1            | 20 LIGHTING                  | 16                                                                                     |             |  |  |            |  |
| *NB                                                                                                                               | 17             | COPIER, RM-DM123 | 20             | 1                                                                 | 12 12 12 2.52         |         |                  |          |                              | 1.5     | 0                     | 1            | 20 LIGHTING                  | 18                                                                                     |             |  |  |            |  |
| *TE                                                                                                                               | 19             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.94         | 1.5     | 0                |          |                              |         |                       | 1            | 20 LIGHTING                  | 20                                                                                     |             |  |  |            |  |
| *TE                                                                                                                               | 21             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.94         |         |                  | 1.5      | 0                            |         |                       | 1            | 20 LIGHTING                  | 22                                                                                     |             |  |  |            |  |
| *TF                                                                                                                               | 23             | PP-1, RM-DM123   | 20             | 1                                                                 | 10 10 10 2.03         |         |                  |          |                              | 1.5     | 0                     | 1            | 20 LIGHTING                  | 24                                                                                     |             |  |  |            |  |
| *TF                                                                                                                               | 25             | PP-1, RM-DM123   | 20             | 1                                                                 | 10 10 10 2.03         | 1.5     | 0                |          |                              |         |                       | 1            | 20 LIGHTING RM114            | 26                                                                                     |             |  |  |            |  |
| *TG                                                                                                                               | 27             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.59         |         |                  | 1.5      | 0                            |         |                       | 1            | 20 POWER POLE CENTER OF ROOM | 28                                                                                     |             |  |  |            |  |
| *TG                                                                                                                               | 29             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.6          |         |                  |          |                              | 1.5     | 0                     | 1            | 20 COPIER/FAX/PRINTER        | 30                                                                                     |             |  |  |            |  |
| *TI                                                                                                                               | 31             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.98         | 1.5     | 0                |          |                              |         |                       | 1            | 20 OFFICE 110 RECEPTACLES    | 32                                                                                     |             |  |  |            |  |
| *TI                                                                                                                               | 33             | PP-1, RM-DM123   | 20             | 1                                                                 | 12 12 12 2.98         |         |                  | 1.5      | 1.5                          |         |                       | 1            | 20 PP-1, RM-DM123            | 34                                                                                     | *TH         |  |  |            |  |
|                                                                                                                                   | 35             | TOP RECTIFIER    | 30             | 2                                                                 |                       | 0       | 0                |          |                              | 0       | 1.5                   | 1            | 20 PP-1, RM-DM123            | 36                                                                                     | *TH         |  |  |            |  |
|                                                                                                                                   | 37             |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              | 38                                                                                     |             |  |  |            |  |
|                                                                                                                                   | 39             | BOTTOM RECTIFIER | 30             | 2                                                                 |                       |         |                  | 0        | 0                            |         |                       | 3            | 30 VOLTAGE SURGE SUPPRESSOR  | 40                                                                                     |             |  |  |            |  |
|                                                                                                                                   | 41             |                  |                |                                                                   |                       |         |                  |          | 0                            | 0       |                       |              |                              | 42                                                                                     |             |  |  |            |  |
| Total Load:                                                                                                                       |                |                  |                |                                                                   |                       |         | 9.00 kVA         | 9.00 kVA | 9.00 kVA                     |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| Total Amps:                                                                                                                       |                |                  |                |                                                                   |                       |         | 75.00            | 75.00    | 75.00                        |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| LOAD SUMMARY                                                                                                                      |                |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| LOAD CLASSIFICATION                                                                                                               |                |                  | CONNECTED LOAD |                                                                   | DEMAND FACTOR         |         | ESTIMATED DEMAND |          | TOTALS*                      |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| Power                                                                                                                             |                |                  | 27.000 kVA     |                                                                   | 100%                  |         | 27.000 kVA       |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |
|                                                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          | TOTAL CONNECTED LOAD:        |         |                       |              |                              |                                                                                        |             |  |  | 27.00 kVA  |  |
|                                                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          | TOTAL ESTIMATED DEMAND LOAD: |         |                       |              |                              |                                                                                        |             |  |  | 27.000 kVA |  |
|                                                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          | TOTAL CONNECTED AMPS:        |         |                       |              |                              |                                                                                        |             |  |  | 74.94 A    |  |
|                                                                                                                                   |                |                  |                |                                                                   |                       |         |                  |          | TOTAL ESTIMATED DEMAND AMPS: |         |                       |              |                              |                                                                                        |             |  |  | 74.9       |  |
| *TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. |                |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |
| CIRCUIT KEYNOTES: *TH = EXISTING BREAKERS TO BE HANDLE TIED TOGETHER                                                              |                |                  |                |                                                                   |                       |         |                  |          |                              |         |                       |              |                              |                                                                                        |             |  |  |            |  |

|                                                                                                                                   |                |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|----------------|---|-----------------------|------------------------------------------------------------------|------------------|----------|----------------------------------------|---------|-----------------------|--------------|------------------|----------------|-------------|----------------------------------------------------------------------------------------|--|--|--|--|--|
| MOUNTING: SURFACE<br>ENCLOSURE: NEMA 1<br>FED FROM: .<br>LOCATION:                                                                |                |                      |                |   |                       | PANEL B1 (EXISTING)<br>SINGLE TUB<br>SOLID NEUTRAL<br>GROUND BUS |                  |          |                                        |         |                       |              |                  |                |             | MAIN: 200 MLO<br>VOLTS: 120/208 Wye<br>PHASE: 3<br>WIRE: 4<br>SCCR: .<br>ISC UNKNOWN . |  |  |  |  |  |
| NOTES: EXISTING SQUARE D NQOD PANEL SHOWN FOR REFERENCE ONLY.                                                                     |                |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| K<br>E<br>Y                                                                                                                       | CK<br>T<br>NO. | LOAD DESCRIPTION     | OCPD<br>AMPS   | P | WIRE<br>SIZE<br>H N G | VD<br>%                                                          | A                | B        | C                                      | VD<br>% | WIRE<br>SIZE<br>G N H | OCPD<br>AMPS | LOAD DESCRIPTION | CK<br>T<br>NO. | K<br>E<br>Y |                                                                                        |  |  |  |  |  |
| *EB                                                                                                                               | 1              | DM107 FURNITURE FEED | 20             | 1 | 12 12 12              |                                                                  | 0 0              |          |                                        |         |                       |              |                  | 2              |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 3              |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  | 4              |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 5              | SPARE                | 40             | 3 |                       |                                                                  | 0 0              |          |                                        |         |                       | 3            | 20 SUMP PUMP     | 6              |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 7              |                      |                |   |                       |                                                                  |                  |          | 0 0                                    |         |                       |              |                  | 8              |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 9              | EXISTING LOAD        | 20             | 1 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 3            | 20 AIR HANDLER   | 10             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 11             | EXISTING LOAD        | 20             | 1 |                       |                                                                  |                  |          | 0 0                                    |         |                       |              |                  | 12             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 13             | EXISTING LOAD        | 20             | 1 |                       |                                                                  | 0 0              |          |                                        |         |                       | 1            | 20 EXISTING LOAD | 14             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 15             | EXISTING LOAD        | 20             | 1 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 1            | 20 EXISTING LOAD | 16             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 17             | EXISTING LOAD        | 20             | 1 |                       |                                                                  |                  |          | 0 0                                    |         |                       | 1            | 20 EXISTING LOAD | 18             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 19             | EXISTING LOAD        | 20             | 1 |                       |                                                                  | 0 0              |          |                                        |         |                       | 1            | 20 EXISTING LOAD | 20             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 21             | EXISTING LOAD        | 20             | 1 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 1            | 20 EXISTING LOAD | 22             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 23             | Power                | 20             | 1 |                       |                                                                  |                  |          | 0 0                                    |         |                       | 1            | 20 EXISTING LOAD | 24             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 25             |                      |                |   |                       |                                                                  | 0 0              |          |                                        |         |                       | 1            | 20 EXISTING LOAD | 26             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 27             | ROOF FAN             | 20             | 3 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 1            | 20 EXISTING LOAD | 28             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 29             |                      |                |   |                       |                                                                  |                  |          | 0 0                                    |         |                       |              |                  | 30             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 31             |                      |                |   |                       |                                                                  | 0 0              |          |                                        |         |                       | 2            | 20 EXISTING LOAD | 32             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 33             | ROOF FAN             | 20             | 3 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 1            | 20 EXISTING LOAD | 34             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 35             |                      |                |   |                       |                                                                  |                  |          | 0 0                                    |         |                       | 1            | 20 EXISTING LOAD | 36             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 37             |                      |                |   |                       |                                                                  | 0 0              |          |                                        |         |                       | 1            | 20 EXISTING LOAD | 38             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 39             | ROOF FAN             | 20             | 3 |                       |                                                                  |                  | 0 0      |                                        |         |                       | 1            | 20 EXISTING LOAD | 40             |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   | 41             |                      |                |   |                       |                                                                  |                  |          | 0 0                                    |         |                       | 1            | 20 EXISTING LOAD | 42             |             |                                                                                        |  |  |  |  |  |
| Total Load:                                                                                                                       |                |                      |                |   |                       |                                                                  | 0.00 kVA         | 0.00 kVA | 0.00 kVA                               |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| Total Amps:                                                                                                                       |                |                      |                |   |                       |                                                                  | 0.00             | 0.00     | 0.00                                   |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| LOAD SUMMARY                                                                                                                      |                |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| LOAD CLASSIFICATION                                                                                                               |                |                      | CONNECTED LOAD |   | DEMAND FACTOR         |                                                                  | ESTIMATED DEMAND |          | TOTALS*                                |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| Power                                                                                                                             |                |                      | 0.000 kVA      |   | 0%                    |                                                                  | 0.000 kVA        |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   |                |                      |                |   |                       |                                                                  |                  |          | TOTAL CONNECTED LOAD: 0.00 kVA         |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   |                |                      |                |   |                       |                                                                  |                  |          | TOTAL ESTIMATED DEMAND LOAD: 0.000 kVA |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   |                |                      |                |   |                       |                                                                  |                  |          | TOTAL CONNECTED AMPS: 0.00 A           |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
|                                                                                                                                   |                |                      |                |   |                       |                                                                  |                  |          | TOTAL ESTIMATED DEMAND AMPS: 0         |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| *TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. |                |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |
| CIRCUIT KEYNOTES:                                                                                                                 |                |                      |                |   |                       |                                                                  |                  |          |                                        |         |                       |              |                  |                |             |                                                                                        |  |  |  |  |  |

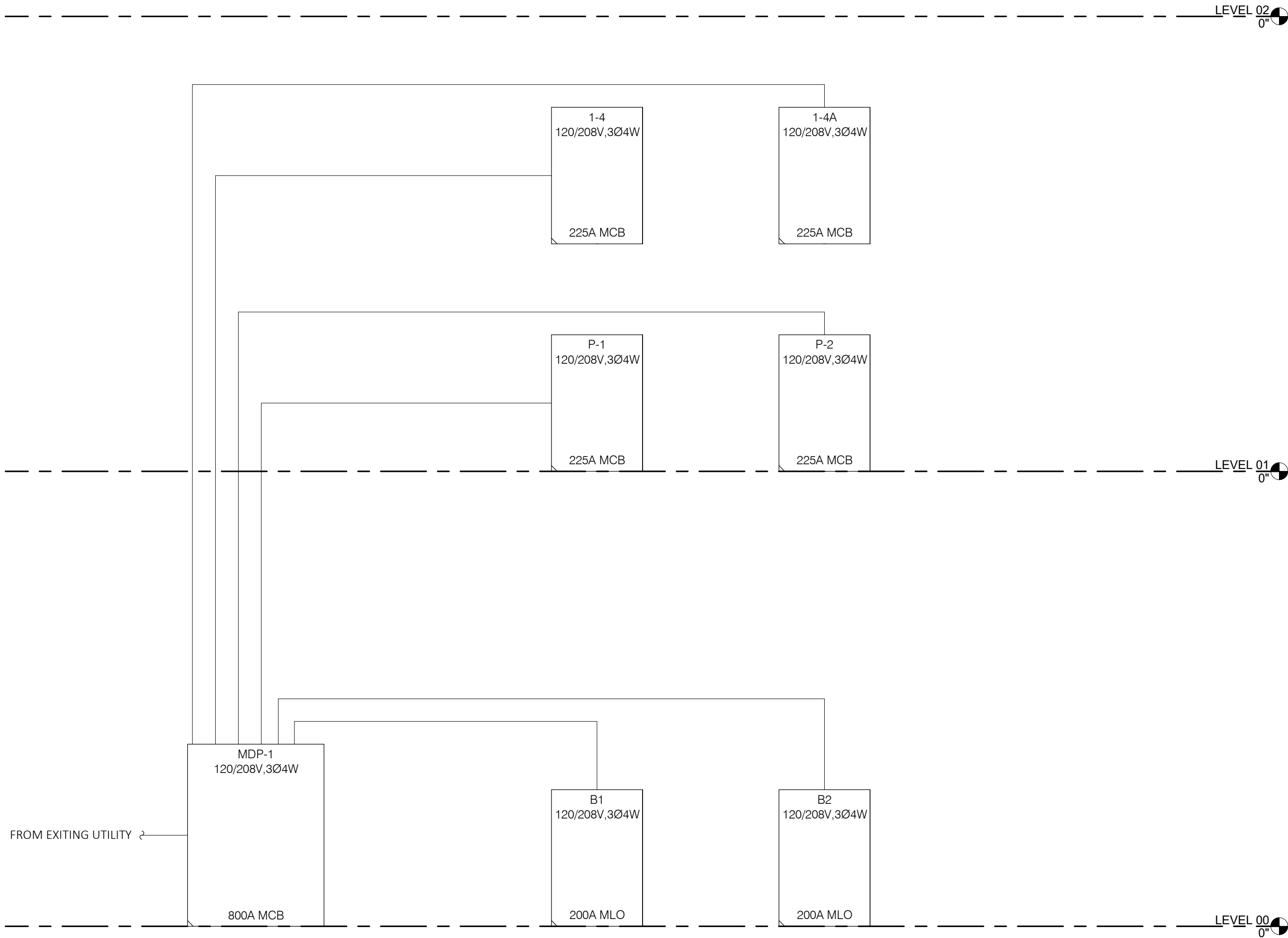
|                                                                                                                                   |                |                              |                                                                    |   |                       |         |                  |          |          |                              |                       |              |                                                                                        |                |             |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|--------------------------------------------------------------------|---|-----------------------|---------|------------------|----------|----------|------------------------------|-----------------------|--------------|----------------------------------------------------------------------------------------|----------------|-------------|
| MOUNTING: SURFACE<br>ENCLOSURE: NEMA 1<br>FED FROM: .<br>LOCATION:                                                                |                |                              | PANEL 1-4A (EXISTING)<br>SINGLE TUB<br>SOLID NEUTRAL<br>GROUND BUS |   |                       |         |                  |          |          |                              |                       |              | MAIN: 225 MCB<br>VOLTS: 120/208 Wye<br>PHASE: 3<br>WIRE: 4<br>SCCR: .<br>ISC UNKNOWN . |                |             |
| NOTES: EXISTING SQUARE D PANEL. SHOWN FOR REFERENCE ONLY.                                                                         |                |                              |                                                                    |   |                       |         |                  |          |          |                              |                       |              |                                                                                        |                |             |
| K<br>E<br>Y                                                                                                                       | CK<br>T<br>NO. | LOAD DESCRIPTION             | OCPD<br>AMPS                                                       | P | WIRE<br>SIZE<br>H N G | VD<br>% | A                | B        | C        | VD<br>%                      | WIRE<br>SIZE<br>G N H | OCPD<br>AMPS | LOAD DESCRIPTION                                                                       | CK<br>T<br>NO. | K<br>E<br>Y |
|                                                                                                                                   | 1              | WEST SIDE S. WALL WEST END   | 20                                                                 | 1 |                       |         | 0 0              |          |          |                              |                       | 1            | 20 FIELD AUDIT OFFL 3PLUGS NE WALL                                                     | 2              |             |
|                                                                                                                                   | 3              | WEST SIDE S. WALL POWER POLE | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 PLUG N. WALL & OUTSIDE WALLS                                                        | 4              |             |
|                                                                                                                                   | 5              | WEST SIDE S. WALL POWER POLE | 20                                                                 | 1 |                       |         |                  |          | 0 0      |                              |                       | 1            | 20 FIELD AUDIT OFFL 3PLUGS SE WALL                                                     | 6              |             |
|                                                                                                                                   | 7              | SOUTH JUDGE RM. & ENTRANCE   | 20                                                                 | 1 |                       |         | 0 0              |          |          | 0 0                          |                       | 1            | 20 NORTH WALL WEST END                                                                 | 8              |             |
|                                                                                                                                   | 9              | EXISTING LOAD                | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 FIELD AUDIT OFF. 3 PLUGS E. WALL                                                    | 10             |             |
|                                                                                                                                   | 11             | WEST SIDE 1/2 OF 4 PLEX      | 20                                                                 | 1 |                       |         |                  |          | 0 0      |                              |                       | 1            | 20 FIELD AUDIT OFF. 3 PLUGS E. WALL                                                    | 12             |             |
|                                                                                                                                   | 13             | WEST SIDE 1/2 OF 4 PLEX      | 20                                                                 | 1 |                       |         | 0 --             |          |          |                              |                       | 1            | -- SPACE                                                                               | 14             |             |
|                                                                                                                                   | 15             | RM 141                       | 20                                                                 | 1 |                       |         |                  | 0 --     |          |                              |                       | 1            | -- SPACE                                                                               | 16             |             |
|                                                                                                                                   | 17             | 8 CUBICLES SE & CREDITATION  | 20                                                                 | 1 |                       |         |                  |          | 0 --     |                              |                       | 1            | -- SPACE                                                                               | 18             |             |
|                                                                                                                                   | 19             | 8 CUBICLES SE                | 20                                                                 | 1 |                       |         | 0 0              |          |          |                              |                       | 1            | 20 NORTH WALL 2 PLUGS WEST END                                                         | 20             |             |
|                                                                                                                                   | 21             | SOUTH HALL                   | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 WEST END EAST WALL 3 PLUGS                                                          | 22             |             |
|                                                                                                                                   | 23             | LIGHT NE CORNER              | 20                                                                 | 1 |                       |         |                  |          | 0 0      |                              |                       | 1            | 20 WEST END EAST WALL 3 PLUGS                                                          | 24             |             |
|                                                                                                                                   | 25             | EXISTING SPARE               | 20                                                                 | 1 |                       |         | 0 0              |          |          |                              |                       | 1            | 20 EAST/NORTH OFFL 2ND FROM EAST                                                       | 26             |             |
|                                                                                                                                   | 27             | PLUG INS RMS. 108, 109       | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 PLUG NEW WALL                                                                       | 28             |             |
|                                                                                                                                   | 29             | EXISTING SPARE               | 20                                                                 | 1 |                       |         |                  |          | 0 0      |                              |                       | 1            | 20 PLUG NE WALL                                                                        | 30             |             |
|                                                                                                                                   | 31             | EXISTING SPARE               | 20                                                                 | 1 |                       |         | 0 0              |          |          |                              |                       | 1            | 20 LIGHTS CENTER OFFICE                                                                | 32             |             |
|                                                                                                                                   | 33             | EXISTING SPARE               | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 FIRE DAMPERS                                                                        | 34             |             |
|                                                                                                                                   | 35             | POWER POLE WEST              | 20                                                                 | 1 |                       |         |                  |          | 0 0      |                              |                       | 1            | 20 CUBICLE OUTLETS S.W. POWER...                                                       | 36             |             |
|                                                                                                                                   | 37             | PLUG NE WALL                 | 20                                                                 | 1 |                       |         | 0 0              |          |          |                              |                       | 1            | 20 EAST WALL NORTH CORNER                                                              | 38             |             |
|                                                                                                                                   | 39             | PLUG NE WALL                 | 20                                                                 | 1 |                       |         |                  | 0 0      |          |                              |                       | 1            | 20 POWER FOR KEY CARDS                                                                 | 40             |             |
|                                                                                                                                   | 41             | SPACE                        | --                                                                 | 1 |                       |         |                  |          | -- 0     |                              |                       | 1            | 20 120 POWER FOR STORE ROOM 116                                                        | 42             |             |
| Total Load:                                                                                                                       |                |                              |                                                                    |   |                       |         | 0.00 kVA         | 0.00 kVA | 0.00 kVA |                              |                       |              |                                                                                        |                |             |
| Total Amps:                                                                                                                       |                |                              |                                                                    |   |                       |         | 0.00             | 0.00     | 0.00     |                              |                       |              |                                                                                        |                |             |
| LOAD SUMMARY                                                                                                                      |                |                              |                                                                    |   |                       |         |                  |          |          |                              |                       |              |                                                                                        |                |             |
| LOAD CLASSIFICATION                                                                                                               |                |                              | CONNECTED LOAD                                                     |   | DEMAND FACTOR         |         | ESTIMATED DEMAND |          |          | TOTALS*                      |                       |              |                                                                                        |                |             |
|                                                                                                                                   |                |                              |                                                                    |   |                       |         |                  |          |          | TOTAL CONNECTED LOAD:        |                       |              | 0.00 kVA                                                                               |                |             |
|                                                                                                                                   |                |                              |                                                                    |   |                       |         |                  |          |          | TOTAL ESTIMATED DEMAND LOAD: |                       |              | 0.000 kVA                                                                              |                |             |
|                                                                                                                                   |                |                              |                                                                    |   |                       |         |                  |          |          | TOTAL CONNECTED AMPS:        |                       |              | 0.00 A                                                                                 |                |             |
|                                                                                                                                   |                |                              |                                                                    |   |                       |         |                  |          |          | TOTAL ESTIMATED DEMAND AMPS: |                       |              | 0                                                                                      |                |             |
| *TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. |                |                              |                                                                    |   |                       |         |                  |          |          |                              |                       |              |                                                                                        |                |             |
| CIRCUIT KEYNOTES:                                                                                                                 |                |                              |                                                                    |   |                       |         |                  |          |          |                              |                       |              |                                                                                        |                |             |

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| PANEL P-1 (EXISTING)                                                                                                              |            |                        |                |   |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
|-----------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|----------------|---|---------------|-------------------------------------------|------------------|---------|------------------------------|----------|----------|---------------------------------------------------------------------------------------|---|---|-------------------|--------------|------------------|------------------------|-------------|
| MOUNTING: RECESSED<br>ENCLOSURE: NEMA 1<br>FED FROM: .<br>LOCATION:                                                               |            |                        |                |   |               | SINGLE TUB<br>SOLID NEUTRAL<br>GROUND BUS |                  |         |                              |          |          | MAIN: 225 MCB<br>VOLTS: 120/208 Wye<br>PHASE: 3<br>WIRE: 4<br>SCCR: .<br>ISC UNKNOWN. |   |   |                   |              |                  |                        |             |
| NOTES: EXISTING SQUARE D NQ PANEL, SHOWN FOR REFERENCE ONLY.                                                                      |            |                        |                |   |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
| K<br>E<br>Y                                                                                                                       | CKT<br>NO. | LOAD DESCRIPTION       | OCPD<br>AMPS   | P | H             | WIRE<br>SIZE<br>N                         | G                | VD<br>% | A                            | B        | C        | VD<br>%                                                                               | G | H | WIRE<br>SIZE<br>P | OCPD<br>AMPS | LOAD DESCRIPTION | CKT<br>NO.             | K<br>E<br>Y |
|                                                                                                                                   | 1          | LIGHTS ROW 15          | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       |   |   |                   | 1            | 20               | LIGHTS BASEMENT        | 2           |
|                                                                                                                                   | 3          | ROOF TOP 14            | 20             | 1 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | BED RM 136 & BED RM141 | 4           |
|                                                                                                                                   | 5          | LIGHTS ROW 13          | 20             | 1 |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   | 1            | 20               | EXISTING SPARE         | 6           |
|                                                                                                                                   | 7          | LIGHTS ROW 11          | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       | 0 | 0 |                   | 1            | 20               | WATER HEATER           | 8           |
|                                                                                                                                   | 9          | EMERGENCY LIGHTS       | 20             | 1 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | RECEPTACLE CIRCUIT     | 10          |
|                                                                                                                                   | 11         | LIGHTS ROW 9           | 20             | 1 |               |                                           |                  |         |                              |          | 0        | 0                                                                                     |   |   |                   | 1            | 20               | VESTIBULE LIGHTS       | 12          |
|                                                                                                                                   | 13         | LIGHTS ROW 8           | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       |   |   |                   | 1            | 20               | MEN'S REST ROOM        | 14          |
|                                                                                                                                   | 15         | LIGHTS ROW 7           | 20             | 1 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | LIGHTS SOUTH           | 16          |
|                                                                                                                                   | 17         | LIGHTS ROW 5           | 20             | 1 |               |                                           |                  |         |                              |          |          | 0                                                                                     | 0 |   |                   | 1            | 20               | RECEP. COORIDOR 145    | 18          |
|                                                                                                                                   | 19         | RECEPTACLE MEN'S RR    | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       |   |   |                   | 1            | 20               | SPARE                  | 20          |
|                                                                                                                                   | 21         | WATER HEATER           | 30             | 2 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | WOMEN'S HAND DRYER     | 22          |
|                                                                                                                                   | 23         | SOUTH HALL LIGHTS      | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       | 0 | 0 |                   | 1            | 20               | RM112 LOUNGE LIGHTS    | 24          |
|                                                                                                                                   | 25         | LIGHTS ROW 16          | 20             | 1 |               |                                           |                  |         |                              |          | 0        | 0                                                                                     |   |   |                   | 1            | 20               | LOUNGE COFFEE          | 26          |
|                                                                                                                                   | 27         | RECEPTACLES 142        | 20             | 1 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | LIGHTS ROW 22&24       | 28          |
|                                                                                                                                   | 31         | LIGHTS TEST ROOM 106   | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       |   |   |                   | 1            | 20               | EXISTING SPARE         | 30          |
|                                                                                                                                   | 33         | RECEPTACLES SOUTH HALL | 20             | 1 |               |                                           |                  |         |                              | 0        | 0        |                                                                                       |   |   |                   | 1            | 20               | LIGHTS WOMEN RESTROOM  | 32          |
|                                                                                                                                   | 35         | LIGHTS ROW 1           | 20             | 1 |               |                                           |                  |         |                              |          |          | 0                                                                                     | 0 |   |                   | 1            | 20               | DED RM142              | 34          |
|                                                                                                                                   | 37         | LIGHTS TYPING ROOM 105 | 20             | 1 |               |                                           |                  |         | 0                            | 0        |          |                                                                                       |   |   |                   | 1            | 20               | LIGHTS                 | 36          |
|                                                                                                                                   | 39         | RECEPTACLES 103        | 20             | 1 |               |                                           |                  |         |                              |          | 0        | 0                                                                                     |   |   |                   | 3            | 30               | TVSS                   | 40          |
|                                                                                                                                   | 41         | LIGHTS ROW 12          | 20             | 1 |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        | 42          |
| Total Load:                                                                                                                       |            |                        |                |   |               |                                           |                  |         | 0.00 kVA                     | 0.00 kVA | 0.00 kVA |                                                                                       |   |   |                   |              |                  |                        |             |
| Total Amps:                                                                                                                       |            |                        |                |   |               |                                           |                  |         | 0.00                         | 0.00     | 0.00     |                                                                                       |   |   |                   |              |                  |                        |             |
| LOAD SUMMARY                                                                                                                      |            |                        |                |   |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
| LOAD CLASSIFICATION                                                                                                               |            |                        | CONNECTED LOAD |   | DEMAND FACTOR |                                           | ESTIMATED DEMAND |         | TOTALS*                      |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
|                                                                                                                                   |            |                        |                |   |               |                                           |                  |         | TOTAL CONNECTED LOAD:        |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
|                                                                                                                                   |            |                        |                |   |               |                                           |                  |         | TOTAL ESTIMATED DEMAND LOAD: |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
|                                                                                                                                   |            |                        |                |   |               |                                           |                  |         | TOTAL CONNECTED AMPS:        |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
|                                                                                                                                   |            |                        |                |   |               |                                           |                  |         | TOTAL ESTIMATED DEMAND AMPS: |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
| *TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. |            |                        |                |   |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        |             |
| CIRCUIT KEYNOTES:                                                                                                                 |            |                        |                |   |               |                                           |                  |         |                              |          |          |                                                                                       |   |   |                   |              |                  |                        |             |

| PANEL P-2 (EXISTING)                                                                                                              |         |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   |      |                  |                             |     |
|-----------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------|----------------|---|---------------|-------------------------------------------|------------------|------|------------------------------|----------|----------|---------------------------------------------------------------------------------------|-----------|---|---|------|------------------|-----------------------------|-----|
| MOUNTING: RECESSED<br>ENCLOSURE: NEMA 1<br>FED FROM: .<br>LOCATION:                                                               |         |                              |                |   |               | SINGLE TUB<br>SOLID NEUTRAL<br>GROUND BUS |                  |      |                              |          |          | MAIN: 225 MCB<br>VOLTS: 120/208 Wye<br>PHASE: 3<br>WIRE: 4<br>SCCR: .<br>ISC UNKNOWN. |           |   |   |      |                  |                             |     |
| NOTES: EXISTING SQUARE D NQ PANEL, SHOWN FOR REFERENCE ONLY.                                                                      |         |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   |      |                  |                             |     |
| KEY                                                                                                                               | CKT NO. | LOAD DESCRIPTION             | OCPD           |   | WIRE SIZE     |                                           |                  | VD % | A                            | B        | C        | VD %                                                                                  | WIRE SIZE |   |   | OCPD | LOAD DESCRIPTION | CKT NO.                     | KEY |
|                                                                                                                                   |         |                              | AMPS           | P | H             | N                                         | G                |      |                              |          |          |                                                                                       | G         | N | H |      |                  |                             |     |
|                                                                                                                                   | 1       | RECEPTACLE BREAKROOM HALL    | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE CENTRAL CUBICLE  | 2   |
|                                                                                                                                   | 3       | RECEPTACLE ROOM 100          | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE BREAKROOM HALL   | 4   |
|                                                                                                                                   | 5       | RECEPTACLE NW CUBICLE EAST   | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE BREAKROOM HALL   | 6   |
|                                                                                                                                   | 7       | RECEPTACLE SE CUBICLE        | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       | 0         | 0 |   | 1    | 20               | RECEPTACLE placement        | 8   |
|                                                                                                                                   | 9       | WAITING LIGHTS AND PLUGS     | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | JOB SEARCH RECEPTACLE       | 10  |
|                                                                                                                                   | 11      | RECEPTACLES SOUTH CUBICLE    | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       | 0         | 0 |   | 1    | 20               | ROTO FILE                   | 12  |
|                                                                                                                                   | 13      | RECEPTACLES SOUTH CUBICLE    | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE NE CUBICLE       | 14  |
|                                                                                                                                   | 15      | RECEPTACLE NE CUBICLE        | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE NE CUBICLE       | 16  |
|                                                                                                                                   | 17      | RECEPT. EAST CENTRAL CUBICLE | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       | 0         | 0 |   | 1    | 20               | RECEPTACLE EAST             | 18  |
|                                                                                                                                   | 19      | RECEPTACLES SE CUBICLE       | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | BILL OFFICE RECEPTACLE WEST | 20  |
|                                                                                                                                   | 21      | RECEPTACLES NE WALL CUBICLE  | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | OFFICE DAMPER               | 22  |
|                                                                                                                                   | 23      | RECEPTACLE NE CUBICLE        | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       | 0         | 0 |   | 1    | 20               | POP MACHINES                | 24  |
|                                                                                                                                   | 25      | RECEPTACLE NE CUBICLE        | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLES 120, 122, 1388  | 26  |
|                                                                                                                                   | 27      | CLAIM CENTER RECEPTACLES     | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | EXISTING SPARE              | 28  |
|                                                                                                                                   | 29      | WAITING ROOM LIGHTS          | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       | 0         | 0 |   | 1    | 20               | RECEPTACLE OFFICE 108       | 30  |
|                                                                                                                                   | 31      | REFRIGERATOR                 | 20             | 1 |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE FRONT CUBICLE    | 32  |
|                                                                                                                                   | 33      | REFRIGERATOR                 | 20             | 1 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE TYPING TESTING   | 34  |
|                                                                                                                                   | 35      | REFRIGERATOR                 | 20             | 1 |               |                                           |                  |      |                              |          |          |                                                                                       | 0         | 0 |   | 1    | 20               | RECEPTACLE NORTH WALL       | 36  |
|                                                                                                                                   | 37      |                              |                |   |               |                                           |                  |      | 0                            | 0        |          |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE NORTH CENTR..... | 38  |
|                                                                                                                                   | 39      | TVSS                         | 30             | 3 |               |                                           |                  |      |                              | 0        | 0        |                                                                                       |           |   |   | 1    | 20               | RECEPTACLE NW CUBICLE       | 40  |
|                                                                                                                                   | 41      |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   | 1    | 20               | EXISTING SPARE              | 42  |
| Total Load:                                                                                                                       |         |                              |                |   |               |                                           |                  |      | 0.00 kVA                     | 0.00 kVA | 0.00 kVA |                                                                                       |           |   |   |      |                  |                             |     |
| Total Amps:                                                                                                                       |         |                              |                |   |               |                                           |                  |      | 0.00                         | 0.00     | 0.00     |                                                                                       |           |   |   |      |                  |                             |     |
| LOAD SUMMARY                                                                                                                      |         |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   |      |                  |                             |     |
| LOAD CLASSIFICATION                                                                                                               |         |                              | CONNECTED LOAD |   | DEMAND FACTOR |                                           | ESTIMATED DEMAND |      | TOTALS*                      |          |          |                                                                                       |           |   |   |      |                  |                             |     |
|                                                                                                                                   |         |                              |                |   |               |                                           |                  |      | TOTAL CONNECTED LOAD:        |          |          |                                                                                       |           |   |   |      |                  |                             |     |
|                                                                                                                                   |         |                              |                |   |               |                                           |                  |      | TOTAL ESTIMATED DEMAND LOAD: |          |          |                                                                                       |           |   |   |      |                  |                             |     |
|                                                                                                                                   |         |                              |                |   |               |                                           |                  |      | TOTAL CONNECTED AMPS:        |          |          |                                                                                       |           |   |   |      |                  |                             |     |
|                                                                                                                                   |         |                              |                |   |               |                                           |                  |      | TOTAL ESTIMATED DEMAND AMPS: |          |          |                                                                                       |           |   |   |      |                  |                             |     |
| *TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. |         |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   |      |                  |                             |     |
| CIRCUIT KEYNOTES:                                                                                                                 |         |                              |                |   |               |                                           |                  |      |                              |          |          |                                                                                       |           |   |   |      |                  |                             |     |

SHEET NOTES:  
1. CONTENT SHOWN FOR REFERENCE ONLY.



1 RISER DIAGRAM (REFERENCE ONLY)  
NO SCALE

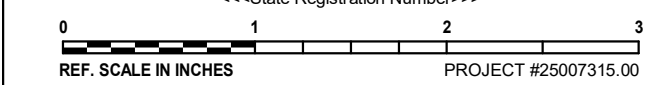


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0 1 2 3  
REF. SCALE IN INCHES PROJECT #25007315.00

100% CD



DAS -9481.00- 5JD 150 DES  
MOINES STREET RENOVATIONS

150 DES MOINES ST.  
DES MOINES, IA 50309

| Mark | Date | Description |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

PROJECT NO: G24-041  
DATE: 09/02/2026  
DRAWN BY: KENRAY

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SHEET TITLE

ELECTRICAL  
SCHEDULES

E602

**NAME** → **LEVEL NAME**  
 10'-0" → **HEIGHT ABOVE PROJECT 0'-0"**

**1** → KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

# VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON → T101

**LINE TYPE AND TAG KEY:**

**NEW WORK BY THIS CONTRACTOR (WIDE LINE)**

\_\_\_\_\_ NEW

----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

----- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

**EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)**

\_\_\_\_\_ EXISTING

----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

----- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

**HALFTONING DOES NOT MODIFY SCOPE.**

**'TAG'-E** TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

**TAG-1** UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL

**LIST**

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

|                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>FIRE / SMOKE BARRIER DESIGNATIONS</b></p> <p>FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| <h2 style="text-align: center;">APPLICABLE CODES</h2>                                                                                               |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <p style="text-align: center;">CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:</p> |                               |
| BUILDING CODE:                                                                                                                                      | IBC 2024 EDITION              |
| EXISTING BUILDING CODE:                                                                                                                             | IEBC 2024 EDITION             |
| FIRE CODE:                                                                                                                                          | IFC 2024 EDITION              |
| FIRE ALARM STANDARD:                                                                                                                                | NFPA 72 2022 EDITION          |
| FIRE SPRINKLER STANDARD:                                                                                                                            | NFPA 13 2022 EDITION          |
| PLUMBING CODE:                                                                                                                                      | STATE OF IOWA PLUMBING CODE   |
| MECHANICAL CODE:                                                                                                                                    | STATE OF IOWA MECHANICAL CODE |
| ELECTRICAL CODE:                                                                                                                                    | NFPA 70 (NEC) 2023 EDITION    |
| LIFE SAFETY CODE:                                                                                                                                   | NFPA 101 2021 EDITION         |
| ENERGY CONSERVATION CODE:                                                                                                                           | IECC 2021 EDITION             |
| LOCAL BUILDING CODE:                                                                                                                                | CURRENT EDITION               |

| CONTRACTOR ABBREVIATION KEY |                                 |
|-----------------------------|---------------------------------|
| ABBR:                       | DESCRIPTION:                    |
| E.C.                        | ELECTRICAL CONTRACTOR           |
| G.C.                        | GENERAL CONTRACTOR              |
| M.C.                        | MECHANICAL CONTRACTOR           |
| P.C.                        | PLUMBING CONTRACTOR             |
| T.C.                        | TECHNOLOGY CONTRACTOR           |
| T.C.C.                      | TEMPERATURE CONTROLS CONTRACTOR |

| CONTACT PERSONS: |                  |
|------------------|------------------|
| DESCRIPTION:     | PERSON:          |
| PROJECT MANAGER  | PARKER POLASCHEK |
| MECHANICAL       | PARKER POLASCHEK |
| ELECTRICAL       | SENKO DIZDAREVIC |
| TECHNOLOGY       | STEVE ENGLER     |

| SYMBOL LIST - PLUMBING SYSTEMS |                                 |
|--------------------------------|---------------------------------|
| SYMBOL                         | DESCRIPTION                     |
| CW                             | COLD WATER - POTABLE            |
| HW                             | HOT WATER - POTABLE             |
| HWC                            | HOT WATER CIRCULATING - POTABLE |
| SAN                            | SANITARY DRAINAGE               |
| V                              | VENT                            |

| PLUMBING ABBREVIATION KEY |                                       |
|---------------------------|---------------------------------------|
| ABBR:                     | DESCRIPTION:                          |
| AFF                       | ABOVE FINISHED FLOOR                  |
| BFP                       | BACKFLOW PREVENTER                    |
| CI                        | CAST IRON                             |
| CO                        | CLEANOUT                              |
| DN                        | DOWN                                  |
| E                         | EXISTING                              |
| EWIC                      | ELECTRIC WATER COOLER                 |
| FCO                       | FLOOR CLEANOUT                        |
| FD                        | FLOOR DRAIN                           |
| FS                        | FLOOR SINK                            |
| I.E.                      | INVERT ELEVATION (FOR REFERENCE ONLY) |
| L or LAV                  | LAVATORY                              |
| MV                        | MIXING VALVE                          |
| SCCR                      | SHORT CIRCUIT CURRENT RATING          |
| TYP                       | TYPICAL                               |
| UR                        | URINAL                                |
| VTR                       | VENT THROUGH ROOF                     |
| WC                        | WATER CLOSET                          |
| WCO                       | WALL CLEANOUT                         |
| WH                        | WATER HEATER                          |

| DETAIL/DIAGRAM SYMBOLS - PIPE ACCESSORIES                                           |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
| SYMBOL                                                                              | DESCRIPTION                   |
|  | SHUTOFF VALVE (NORMALLY OPEN) |

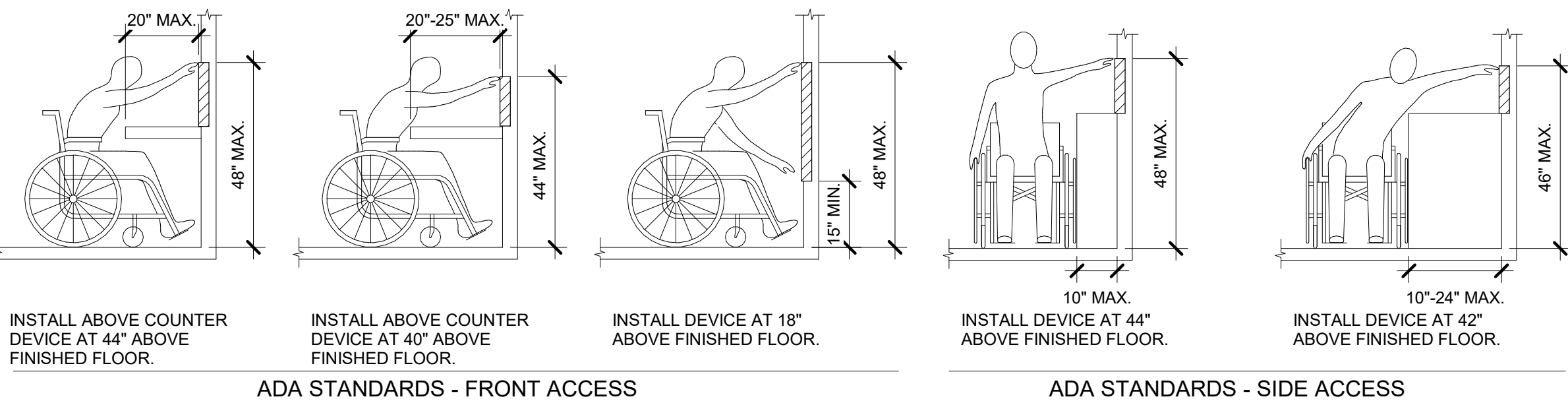
| SYMBOL LIST - PIPE ACCESSORIES                                                      |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
| SYMBOL                                                                              | DESCRIPTION                         |
|  | PIPE DOWN AND PIPE UP / UP AND DOWN |
|  | REDUCER                             |

## PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)

1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DRAIN W/ BRANCH PIPING OUTSIDE OF THE WALL/HASE SHALL BE A MINIMUM OF 3/4". UNLESS NOTED OTHERWISE. 4) THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

| TAG NAME | DESCRIPTION               | CW     | HW   | SAN    | VENT   |
|----------|---------------------------|--------|------|--------|--------|
| L-1      | LAVATORY (ACCESSIBLE)     | 1/2"   | 1/2" | 1 1/2" | 1 1/2" |
| SK-1     | SINK                      | 1/2"   | 1/2" | 1 1/2" | 1 1/2" |
| WC-1     | WATER CLOSET (ACCESSIBLE) | 1 1/2" | -    | 4"     | 2"     |
| WC-#     | WATER CLOSET (ACCESSIBLE) | 1 1/2" | -    | 4"     | 2"     |



## ADA STANDARDS FOR ACCESSIBLE DESIGN

### MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO PLUMBING AND HVAC.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOTIFY THE OWNER AND PROJECT ENGINEER BEFORE SHUTTING DOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
5. WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT, THE CONTRACTOR SHALL PROVIDE FIELD ACTS TO THE ENGINEER. BEFORE INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THIS INFORMATION SHALL NOT BE USED TO PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE IN SERVICE UNTIL NEW SYSTEMS ARE INSTALLED.
8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TESTING AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

| PLUMBING SLOPE REQUIREMENTS:         |                                      |
|--------------------------------------|--------------------------------------|
| BASED ON STATE OF IOWA PLUMBING CODE |                                      |
| <u>INTERIOR:</u>                     |                                      |
| SANITARY WASTE:                      | 1/4" PER FOOT                        |
| SANITARY VENT:                       | NO SPECIFIC PITCH, PITCH TO FIXTURES |
| DOMESTIC WATER:                      | NO SPECIFIC PITCH, PITCH TO FIXTURES |

| PLUMBING SHEET INDEX |                                     |
|----------------------|-------------------------------------|
| P000                 | PLUMBING COVERSHEET                 |
| P101                 | LEVEL 01 DEMOLITION PLAN - PLUMBING |
| P201                 | LEVEL 01 PLAN - PLUMBING            |
| P400                 | PLUMBING DETAILS & SCHEDULES        |
| GRAND TOTAL: 4       |                                     |

## PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. ALL DIMENSIONS AND LOCATIONS ARE TO BE CONSIDERED AS CENTER LINE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE CODES, LOCAL AND GOVERNMENT.
4. ALL FIXTURES SHALL CONFORM TO NSF/ANSI STANDARD 61 AND 372.
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE AVAILABLE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
9. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK. UNLESS NOTED OTHERWISE, REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

### MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, AND HVAC.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENTS AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL DETAILS AND SCHEDULING REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS, AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DIMENSIONS AND THE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICAL DATA AVAILABLE AT THE PROJECT SITE INCLUDING TRADES' COORDINATES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR COLLISIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDER.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS FOR ACCESS TO PANELS FOR SERVICE AND STARTERS.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
15. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
16. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, AND TERMINAL BOXES.
17. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE.
18. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE OBSERVED, SUPPORT THE METAL FRAMING SHALL BE ADDED, AND ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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## SHEET TITLE

# PLUMBING COVERSHEET


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REF. SCALE IN INCHES      PROJECT #25007315.00

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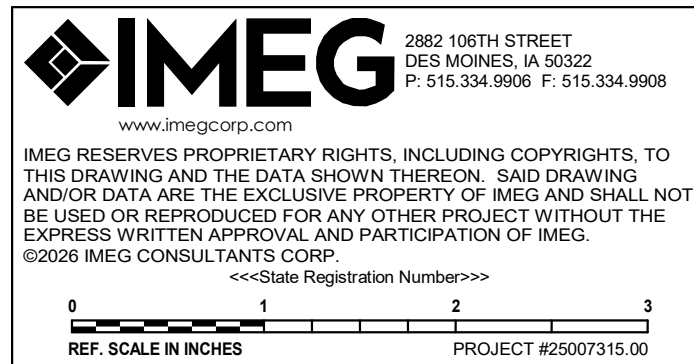
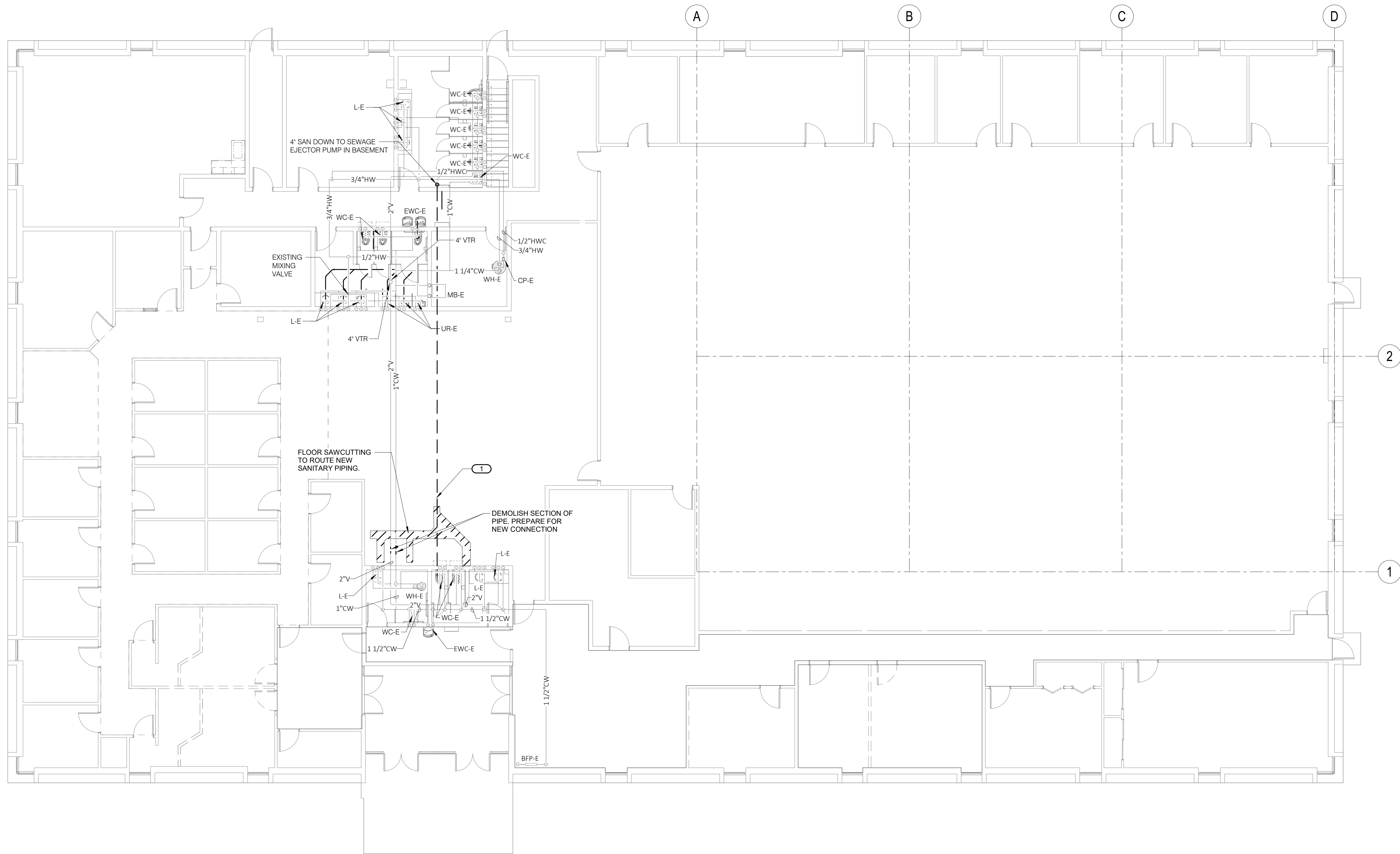
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## LEVEL 01 DEMOLITION PLAN - PLUMBING

1/8" = 1'-0"

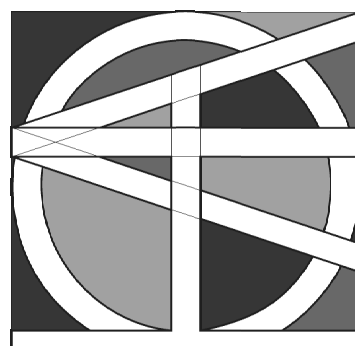
### KEYNOTES:

1. ASSUMED ROUTING OF SANITARY PIPING. P.C. SHALL SCOPE AND VERIFY SANITARY ROUTING PRIOR TO SAWCUTTING. PORTION OF PIPE WILL NEED TO BE DEMOLISHED TO PREPARE FOR NEW SANITARY CONNECTION AT THIS POINT.



100% CD

HORIZON  
ARCHITECTURE



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MOINES STREET RENOVATIONS

150 DES MOINES ST.  
DES MOINES, IA 50309

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### SHEET TITLE

LEVEL 01  
DEMOLITION  
PLAN -  
PLUMBING

P101

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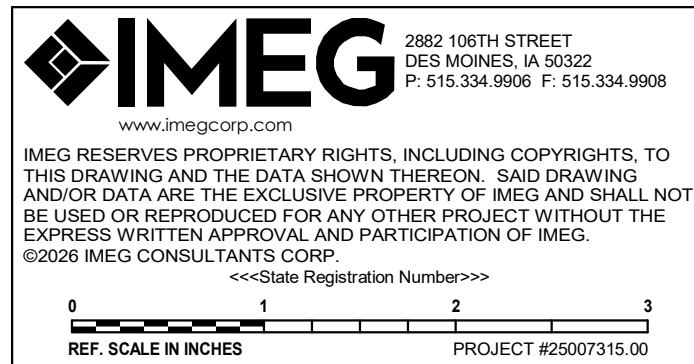
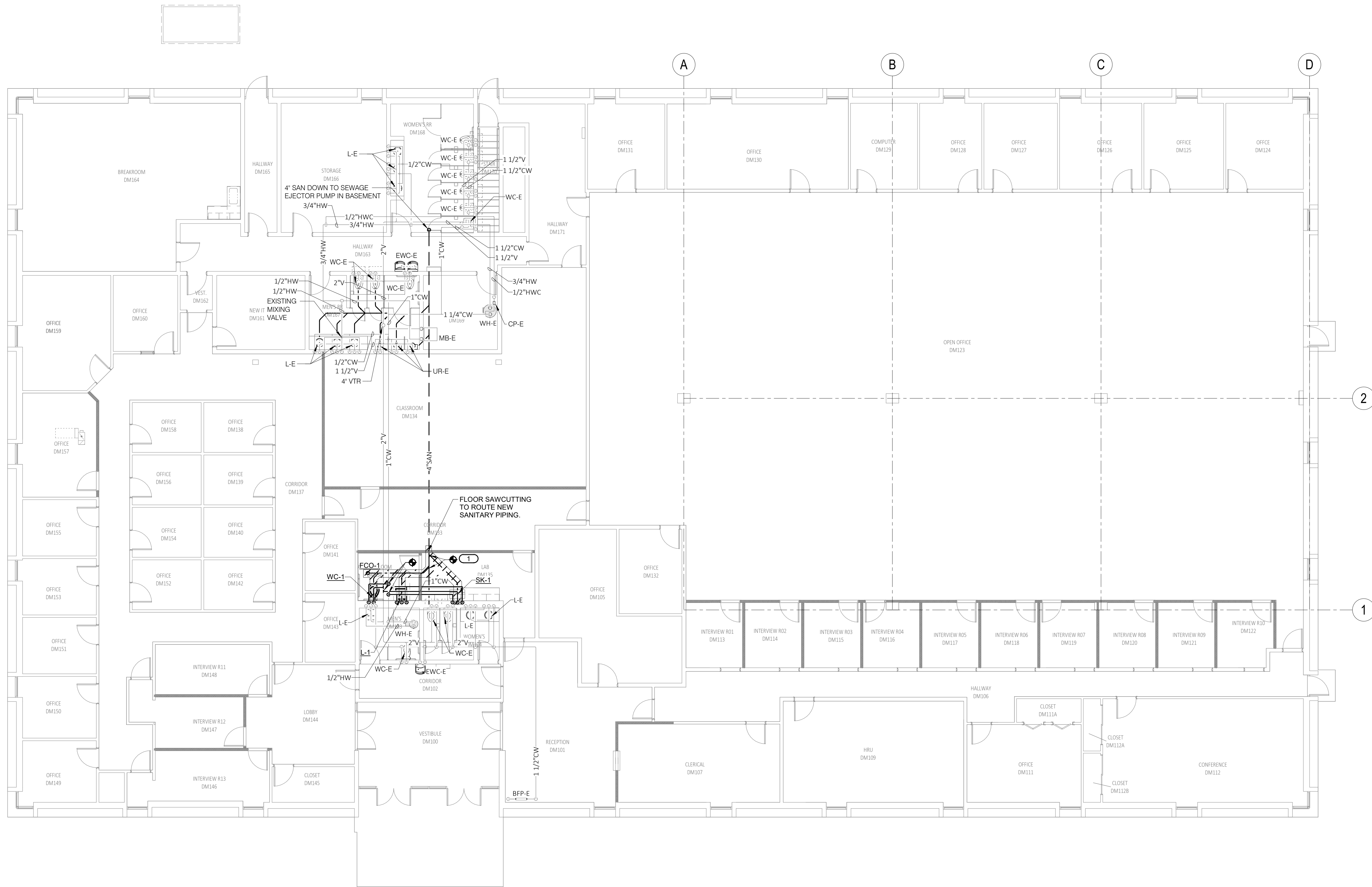
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## LEVEL 01 PLAN - PLUMBING

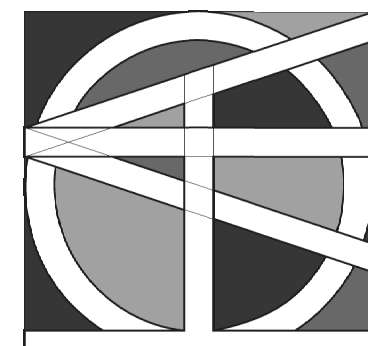
1/8" = 1'-0"

### KEYNOTES:

1. ASSUMED ROUTING OF SANITARY PIPING. P.C. SHALL SCOPE AND VERIFY SANITARY ROUTING PRIOR TO SAWCUTTING.



# HORIZON ARCHITECTURE



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LEVEL 01  
PLAN -  
PLUMBING

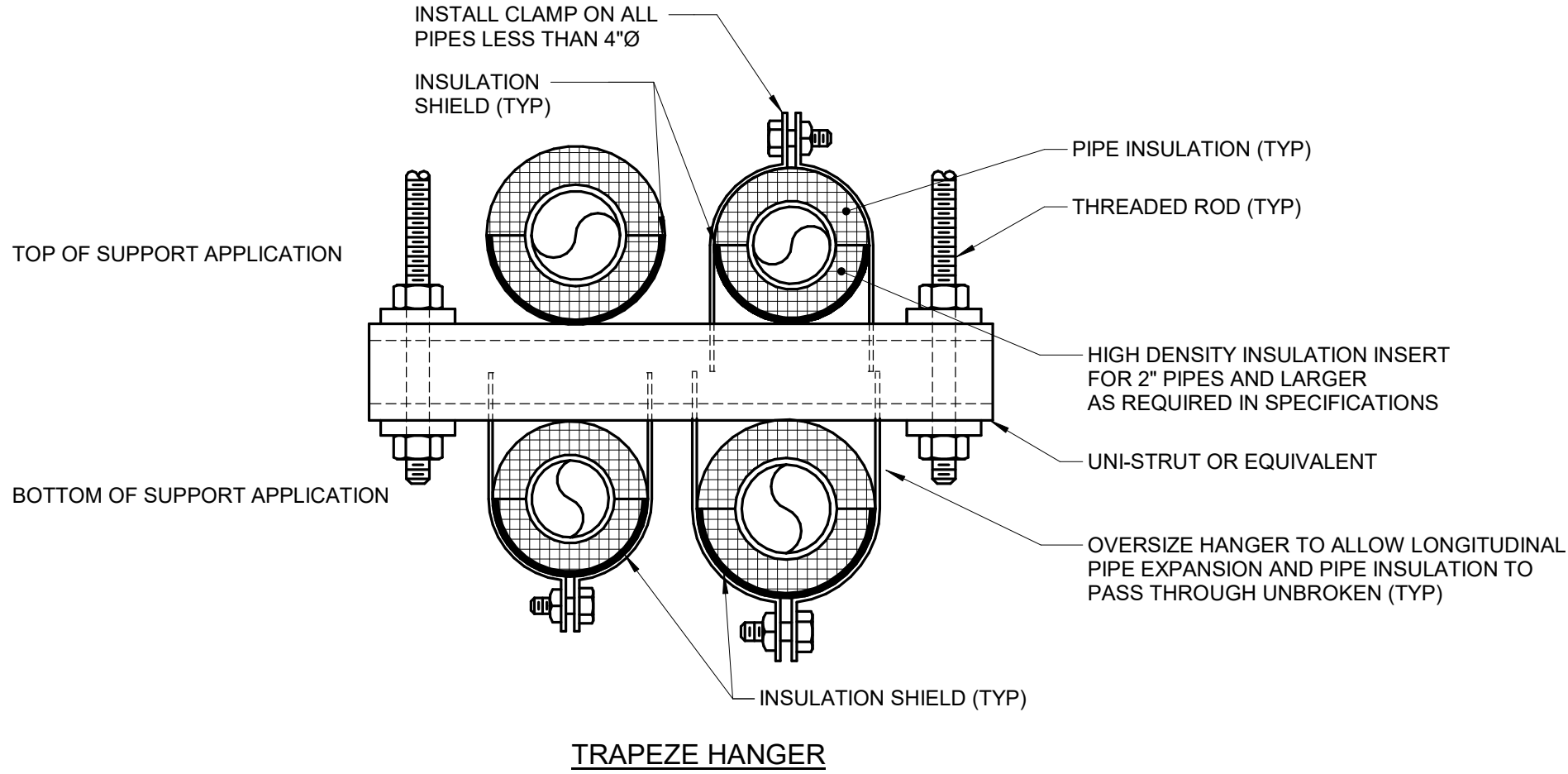
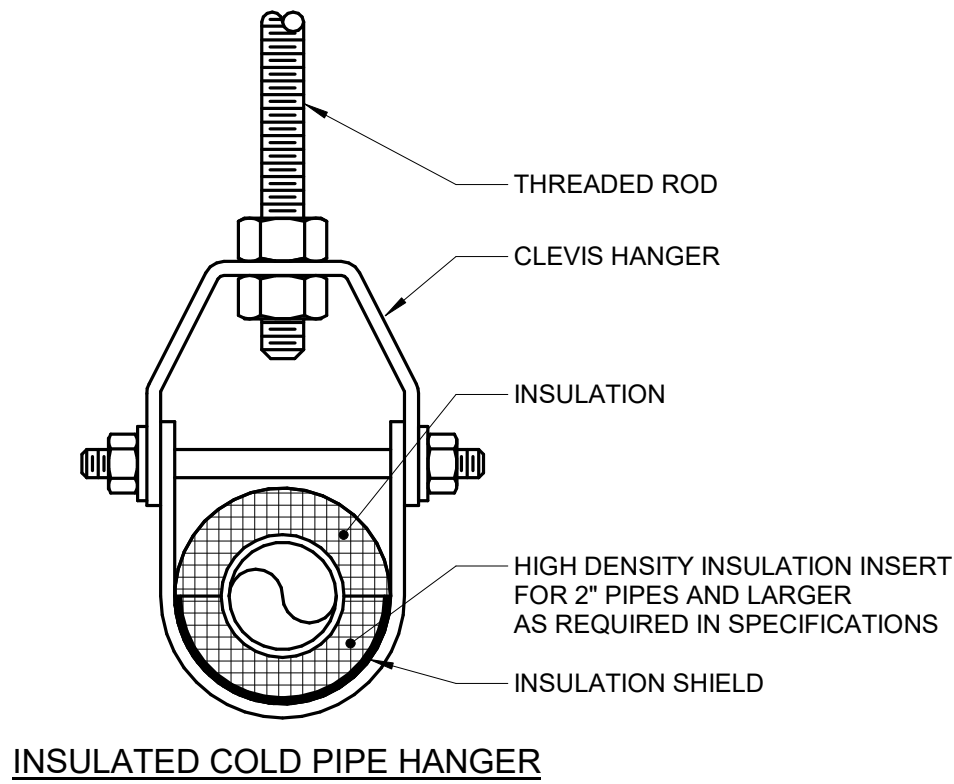
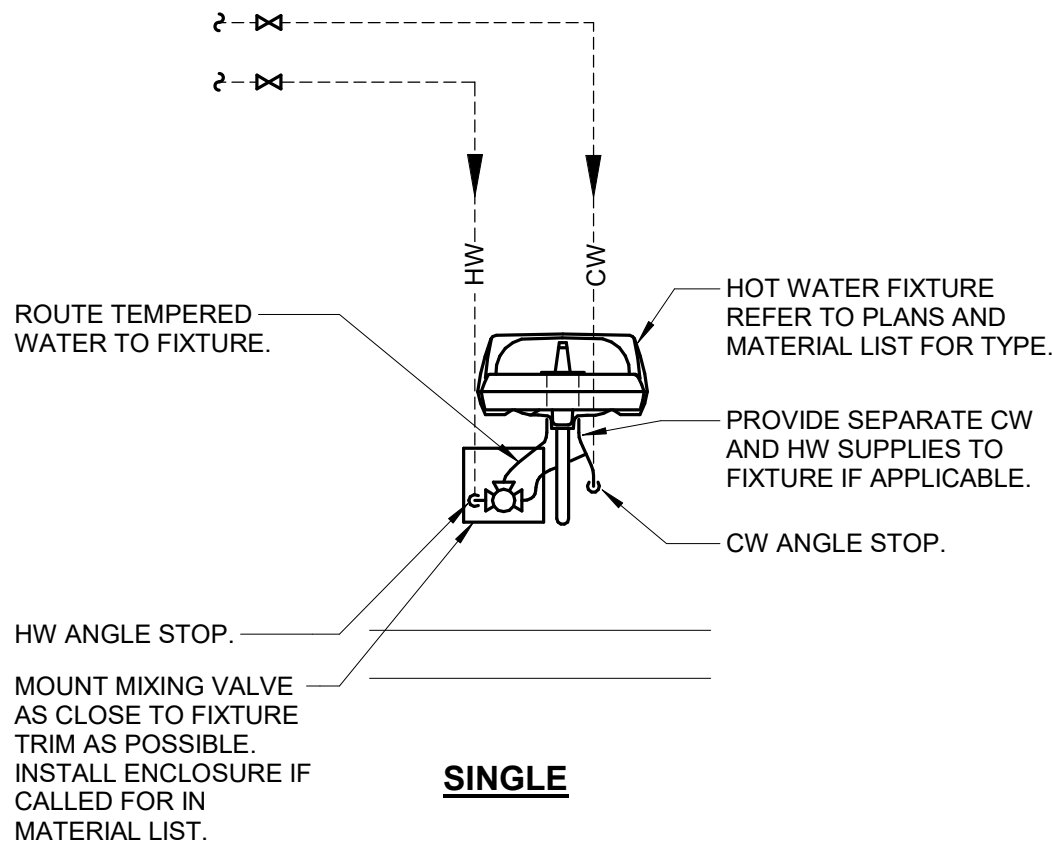
P201

100% CD

INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
MAXIMUM ALLOWABLE PIPE LENGTH FROM THE  
NEAREST SOURCE OF HEATED WATER (CIRCULATED  
TEE FITTING) TO THE TERMINATION OF THE FIXTURE  
SUPPLY PIPE.

| TABLE C404.5.1<br>PIPING VOLUME AND MAXIMUM PIPING LENGTHS |                                              |                                                            |                                  |
|------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------|
| NOMINAL PIPE<br>SIZE (inches)                              | VOLUME<br>(liquid ounces<br>per foot length) | MAXIMUM PIPING LENGTH (feet)<br>Public lavatory<br>faucets | Other fixtures<br>and appliances |
| 1/4                                                        | 0.33                                         | 6                                                          | 50                               |
| 5/16                                                       | 0.5                                          | 4                                                          | 50                               |
| 3/8                                                        | 0.75                                         | 3                                                          | 50                               |
| 1/2                                                        | 1.5                                          | 2                                                          | 43                               |
| 5/8                                                        | 2                                            | 1                                                          | 32                               |
| 3/4                                                        | 3                                            | 0.5                                                        | 21                               |
| 7/8                                                        | 4                                            | 0.5                                                        | 16                               |
| 1                                                          | 5                                            | 0.5                                                        | 13                               |
| 1 1/4                                                      | 8                                            | 0.5                                                        | 8                                |
| 1 1/2                                                      | 11                                           | 0.5                                                        | 6                                |
| 2 or larger                                                | 18                                           | 0.5                                                        | 4                                |

For St: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 liquid ounce = 0.030 L,  
1 gallon = 128 ounces.



NOTES:

1. REFER TO SPECIFICATION SECTIONS SECTION 22 05 29-  
PLUMBING & SECTION 22 07 19-PLUMBING.

1 LAVATORY MIXING VALVE  
NO SCALE

2 PIPE - HANGERS AND SUPPORTS  
NO SCALE

| TAG NAME | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MANUFACTURER AND MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCO-1    | FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:<br><br>UNFINISHED FLOOR - ROUND SOLID SCORiated TOP<br>TILE OR TERRAZZO - ROUND RECESSED TOP<br>CARPET - ROUND TOP WITH CARPET MARKER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200), SIOUX CHIEF (854 OR 834 SERIES)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| L-1      | LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPASH, FAUCET HOLES ON 4" CENTERS, DRILLED FOR CONCEALED ARM CARRIER.<br><br>LAVATORY TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR OR SPRAY PATTERN OUTLET, WING OR LEVER BLADE HANDLES AT 4" CENTERS, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE.<br><br>MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. PROVIDE RESTRICTIVE DEVICE AS REQUIRED.<br><br>MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH STRAINERS, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES.<br><br>CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE REMOVABLE DOOR WITH VANDAL RESISTANT SCREWS TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES.<br><br>RATED FOR 0.5 GPM OUTPUT MAXIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET.<br><br>UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372.<br><br>INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22 40 00. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.<br><br>MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. | LAVATORY - AMERICAN STANDARD (0355.012), KOHLER (K-2005), SLOAN (SS-3003), TOTO (LT307), ZURN (Z5364)<br><br>LAVATORY TRIM - DELTA (Z1C152), AMERICAN STANDARD (5502.140), CHICAGO FAUCET (802), MOEN (8218), SPEAKMAN (SC-3072), SYMMONS (S-250), T&S BRASS (B-0871), ZURN (Z81103-XL)<br><br>MIXING VALVE - LEONARD (170-LF/270-LF/370-LF), ACORN CONTROLS (ST7069), APOLLO (34BLF), BRADLEY (S59 SERIES), LAWLER (310/570), POWERS (SERIES LFLM495), CHICAGO FAUCETS (122-ABNF), SYMMONS (8210CK MAXLINE SERIES), WATTS (LFMMV), WILKINS (ZW1070XL) |
| SK-1     | SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 316 STAINLESS STEEL, 28" (SIDE-TO-SIDE) x 16" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 6-1/2" DEEP BOWL, SOUND DEADENING ON BOTTOM OF BASIN, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, REMOVABLE TYPE 316 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.<br><br>SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, NOMINAL 6" REACH, LAMINAR FLOW OUTLET, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.<br><br>MAXIMUM FLOW TO BE 1.5 GPM. FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SINK - ELKAY (L2133AD/LKAD35), JUST (SL-ADA/J-ADA-35), FRANKE (ALBS), ACORN-SINKS (SDADA/BST)<br><br>SINK TRIM - DELTA (Z7C2), AMERICAN STANDARD (6540), CHICAGO FAUCET (786), SPEAKMAN (SC-3000 SERIES), SYMMONS (S-254), T&S BRASS (B-2866-05CR), ZURN (Z831-XL)                                                                                                                                                                                                                                                                                     |
| WC-1     | WATER CLOSET - ACCESSIBLE, FLOOR MOUNTED, TANK TYPE, WHITE VITREOUS CHINA, CLOSE COUPLED, SIPHON JET, ELONGATED BOWL, BOLT CAPS, 12" ROUGH-IN, FLOAT VALVE WITH VACUUM BREAKER, CHROME-PLATED TRIP LEVER, 1.6 GALLONS PER FLUSH (MAXIMUM).<br><br>SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.<br><br>ACCESSORIES - QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLY WITH STOP, CHROME-PLATED SOFT COPPER SUPPLY LINE.<br><br>TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR. FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WATER CLOSET - ZURN (Z5555-K), CRANE (3814), KOHLER (K-3979), ELJER (091-2175), GERBER (21-718), TOTO (CST744SL), NIAGARA PRO (C11.300.01 or C11.301.01)<br><br>SEAT - BEMIS (165SSSCT), CHURCH (5500C), BENEKE (533), KOHLER (K-4666-C), OLSONITE (95), CENTOCO (550STSCSS-001), SAME AS WATER CLOSET MANUFACTURER                                                                                                                                                                                                                                    |



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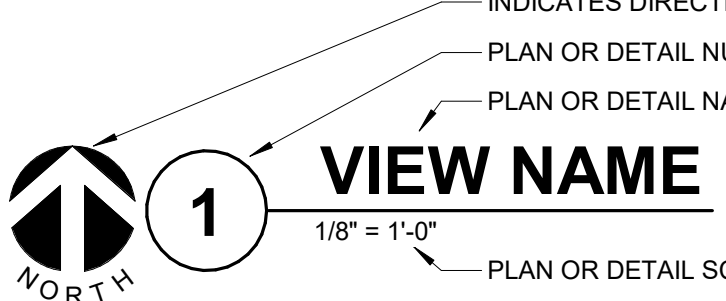
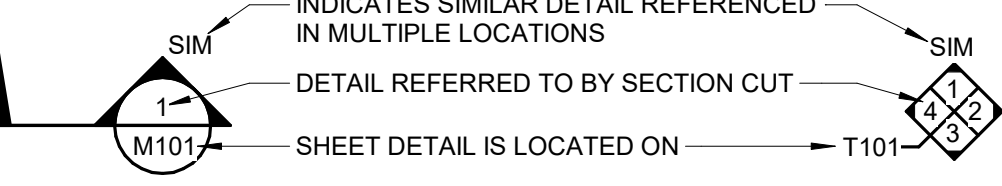
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SHEET TITLE

PLUMBING  
DETAILS &  
SCHEDULES

P400

| VIEW KEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  NAME<br>10'-0" →<br>HEIGHT ABOVE<br>PROJECT 0'-0"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  KEYNOTE: INDICATES NOTE USED TO<br>DESCRIBE ADDITIONAL INFORMATION<br>ABOUT WORK REQUIRED, SPECIFIC<br>TO THE SHEET AND/OR DETAIL |
| <br>INDICATES DIRECTION OF TRUE NORTH<br>PLAN OR DETAIL NUMBER<br>PLAN OR DETAIL NAME<br>1/8" = 1'-0"<br>PLAN OR DETAIL SCALE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                     |
| <br>INDICATES SIMILAR DETAIL REFERENCED<br>IN MULTIPLE LOCATIONS<br>DETAIL REFERRED TO BY SECTION CUT<br>SHEET DETAIL IS LOCATED ON<br>T101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                     |
| <b>LINE TYPE AND TAG KEY:</b><br><br>NEW WORK BY THIS CONTRACTOR (WIDE LINE)<br>—— NEW<br>----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)<br>- - - - - NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)<br><br>EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)<br>—— EXISTING<br>----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)<br>- - - - - EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)<br><br>HALFTONING DOES NOT MODIFY SCOPE.<br><br>'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING<br><br>'TAG-1' UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL<br>INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL<br>LIST<br><br> INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL |                                                                                                                                                                                                                     |

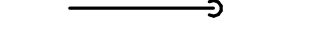
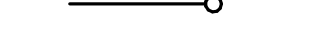
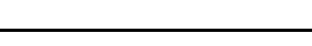
| FIRE / SMOKE BARRIER DESIGNATIONS                                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT. |  |

| APPLICABLE CODES                                                                                                 |                               |
|------------------------------------------------------------------------------------------------------------------|-------------------------------|
| CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: |                               |
| BUILDING CODE:                                                                                                   | IBC 2024 EDITION              |
| EXISTING BUILDING CODE:                                                                                          | IEBC 2024 EDITION             |
| FIRE CODE:                                                                                                       | IFC 2024 EDITION              |
| FIRE ALARM STANDARD:                                                                                             | NFPA 72 2022 EDITION          |
| FIRE SPRINKLER STANDARD:                                                                                         | NFPA 13 2022 EDITION          |
| PLUMBING CODE:                                                                                                   | STATE OF IOWA PLUMBING CODE   |
| MECHANICAL CODE:                                                                                                 | STATE OF IOWA MECHANICAL CODE |
| ELECTRICAL CODE:                                                                                                 | NFPA 70 (NEC) 2023 EDITION    |
| LIFE SAFETY CODE:                                                                                                | NFPA 101 2021 EDITION         |
| ENERGY CONSERVATION CODE:                                                                                        | IECC 2012 EDITION             |
| LOCAL BUILDING CODE:                                                                                             | CURRENT EDITION               |

| CONTRACTOR ABBREVIATION KEY |                                 |
|-----------------------------|---------------------------------|
| ABBR:                       | DESCRIPTION:                    |
| E.C.                        | ELECTRICAL CONTRACTOR           |
| G.C.                        | GENERAL CONTRACTOR              |
| M.C.                        | MECHANICAL CONTRACTOR           |
| P.C.                        | PLUMBING CONTRACTOR             |
| T.C.                        | TECHNOLOGY CONTRACTOR           |
| T.C.C.                      | TEMPERATURE CONTROLS CONTRACTOR |

| CONTACT PERSONS: |                  |
|------------------|------------------|
| DESCRIPTION:     | PERSON:          |
| PROJECT MANAGER  | PARKER POLASCHEK |
| MECHANICAL       | PARKER POLASCHEK |
| ELECTRICAL       | SENKO DIZDAREVIC |
| TECHNOLOGY       | STEVE ENGLER     |

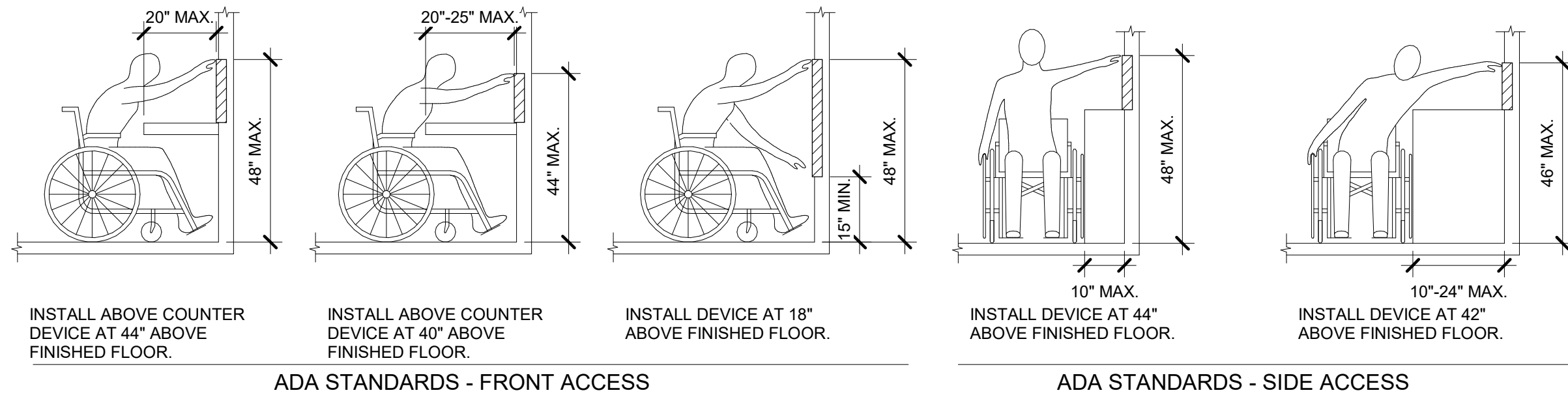
| TECHNOLOGY SYMBOL LIST                                                            |     |                             |                                                                                 |
|-----------------------------------------------------------------------------------|-----|-----------------------------|---------------------------------------------------------------------------------|
| SYMBOL                                                                            | TAG | EQUIPMENT LIST ABBREVIATION | DESCRIPTION                                                                     |
|  | RME |                             | ACCESS CONTROL DOOR (READER / MOTION REX / ELECTRONIC LOCKING HARDWARE)         |
|  |     |                             | SECURITY CREDENTIAL READER (WALL) EXISTING                                      |
|  |     | AC-R1-W                     | SECURITY CREDENTIAL READER - WALL (ROUGH-IN ONLY)                               |
|  |     | AC-R2-W                     | SECURITY CREDENTIAL READER - WALL (NO SCOPE - PROVIDED AND INSTALLED BY OTHERS) |
|  | SM1 | PA-SM1-C                    | SOUND MASKING SPEAKER (CEILING) - ADD ALTERNATE BID #2                          |
|  |     |                             | EXISTING INFORMATION OUTLET IN FLOOR - DEMOLISH                                 |
|  |     | SC-IO-W                     | INFORMATION OUTLET (WALL) EXISTING                                              |
|  | RI  | SC-RI-W                     | INFORMATION OUTLET ROUGH-IN (WALL)                                              |

| PATHWAY SYMBOL LIST:                                                               |                       |
|------------------------------------------------------------------------------------|-----------------------|
| SYMBOL                                                                             | DESCRIPTION           |
|  | CONDUIT               |
|  | CONDUIT DOWN          |
|  | CONDUIT UP OR UP/DOWN |
|  | CONDUIT SLEEVE        |
|  | CONTINUATION          |

#### TECHNOLOGY SYMBOL LIST GENERAL NOTES:

- "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO DATA CONNECTION SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
- REFER TO ACCESS CONTROL DOOR TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
- "CM-#" ON FLOOR PLANS INDICATES CAMERA TYPE AND IS ASSOCIATED WITH THE CORRESPONDING "VS-CM-#" EQUIPMENT SCHEDULE ABBREVIATION.

| TECHNOLOGY ABBREVIATION KEY |                                      |
|-----------------------------|--------------------------------------|
| ABBR:                       | DESCRIPTION:                         |
| AFF                         | ABOVE FINISHED FLOOR                 |
| AFG                         | ABOVE FINISHED GRADE                 |
| BFC                         | BELOW FINISHED CEILING               |
| C                           | CONDUIT                              |
| DE                          | DELAYED EGRESS                       |
| DPDT                        | DOUBLE POLE DOUBLE THROW             |
| FOV                         | FIELD OF VIEW                        |
| J-BOX                       | JUNCTION BOX                         |
| POE                         | POWER OVER ETHERNET                  |
| PTZ                         | PAN TILT ZOOM                        |
| SIM                         | SIMILAR                              |
| TYP                         | TYPICAL                              |
| UON                         | UNLESS OTHERWISE NOTED               |
| +H                          | MOUNTING HEIGHT ABOVE FINISHED FLOOR |
| EF-#                        | ENTRANCE FACILITY                    |
| MC-#                        | MAIN CROSS-CONNECT                   |
| TR-#                        | TELECOMMUNICATIONS ROOM              |



#### ADA STANDARDS FOR ACCESSIBLE DESIGN

| SUGGESTED MATRIX OF RESPONSIBILITY                                                            |           |               |               |        |
|-----------------------------------------------------------------------------------------------|-----------|---------------|---------------|--------|
| ITEM:                                                                                         | SHOWN ON: | FURNISHED BY: | INSTALLED BY: | NOTES: |
| TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION | T-SERIES  | E.C.          | E.C.          | 3, 4.  |
| INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS                                        | T-SERIES  | OTHERS        | OTHERS        |        |
| CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)                                                      | T-SERIES  | E.C.          | E.C.          |        |
| CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)                    | N/A       | T.C.          | T.C.          | 2, 4.  |
| TELECOMMUNICATION SYSTEMS                                                                     | T-SERIES  | E.C.          | E.C.          | 1.     |
| TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS                                        | T-SERIES  | OTHERS        | OTHERS        |        |
| LINE VOLTAGE POWER (+120V OR GREATER)                                                         | E-SERIES  | OTHERS        | OTHERS        |        |
| LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)                 | N/A       | OTHERS        | OTHERS        | 2, 4.  |
| LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES                                           | ARCH SPEC | OTHERS        | OTHERS        |        |
| LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS                                                    | T-SERIES  | OTHERS        | OTHERS        |        |
| CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS                                     | T-SERIES  | T.C.          | T.C.          | 5.     |

#### SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.

#### TECHNOLOGY GENERAL NOTES:

- ###-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
- REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

##### TECHNOLOGY MOUNTING SUBSCRIPT KEY:

- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H MOUNT ORIENTED HORIZONTALLY
- M MOUNT IN CASEWORK
- M MOUNT IN MODULAR FURNITURE
- S MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

- REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- REFER TO DIAGRAMS ON SHEET(S): T400.

#### TECHNOLOGY INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE TECHNOLOGY AREAS OF WORK.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- MOUNT BACKBOXES FLUSH WITH WALL. ALL BACKBOX HEIGHTS ARE TO CENTERLINE DIMENSION, UNLESS OTHERWISE NOTED.
- PROVIDE RACEWAY AND BOXES LISTED FOR THE INSTALLED ENVIRONMENT. SEAL RACEWAY AND BOX FROM WATER AND MOISTURE AT TRANSITION BETWEEN DIFFERENT ENVIRONMENTAL CONDITIONS SUCH AS INTERIOR/EXTERIOR, TEMPERATURE CHANGES, ETC.

| TECHNOLOGY SHEET INDEX |                                       |
|------------------------|---------------------------------------|
| T000                   | TECHNOLOGY COVERSHEET                 |
| T101                   | LEVEL 01 DEMOLITION PLAN - TECHNOLOGY |
| T200                   | BASEMENT PLAN - TECHNOLOGY            |
| T201                   | LEVEL 01 PLAN - TECHNOLOGY            |
| T300                   | TECHNOLOGY ENLARGEMENTS               |
| T400                   | TECHNOLOGY DETAILS AND DIAGRAMS       |
| T500                   | TECHNOLOGY SCHEDULES                  |
| GRAND TOTAL: 7         |                                       |



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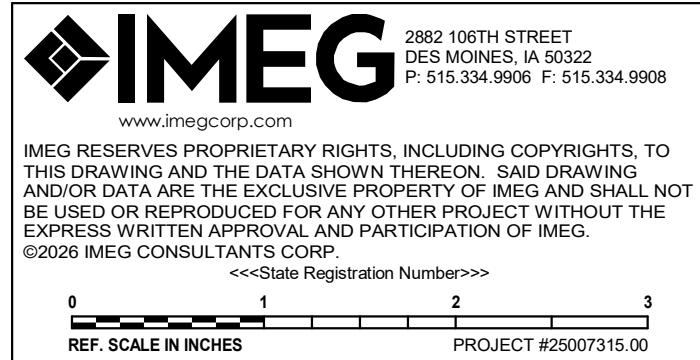
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##### SHEET TITLE

## TECHNOLOGY COVERSHEET



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1

## LEVEL 01 DEMOLITION PLAN - TECHNOLOGY

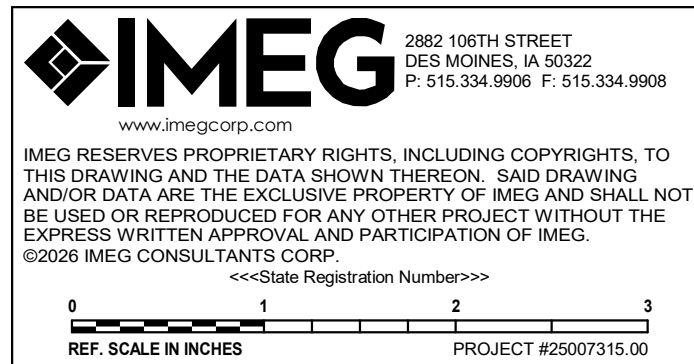
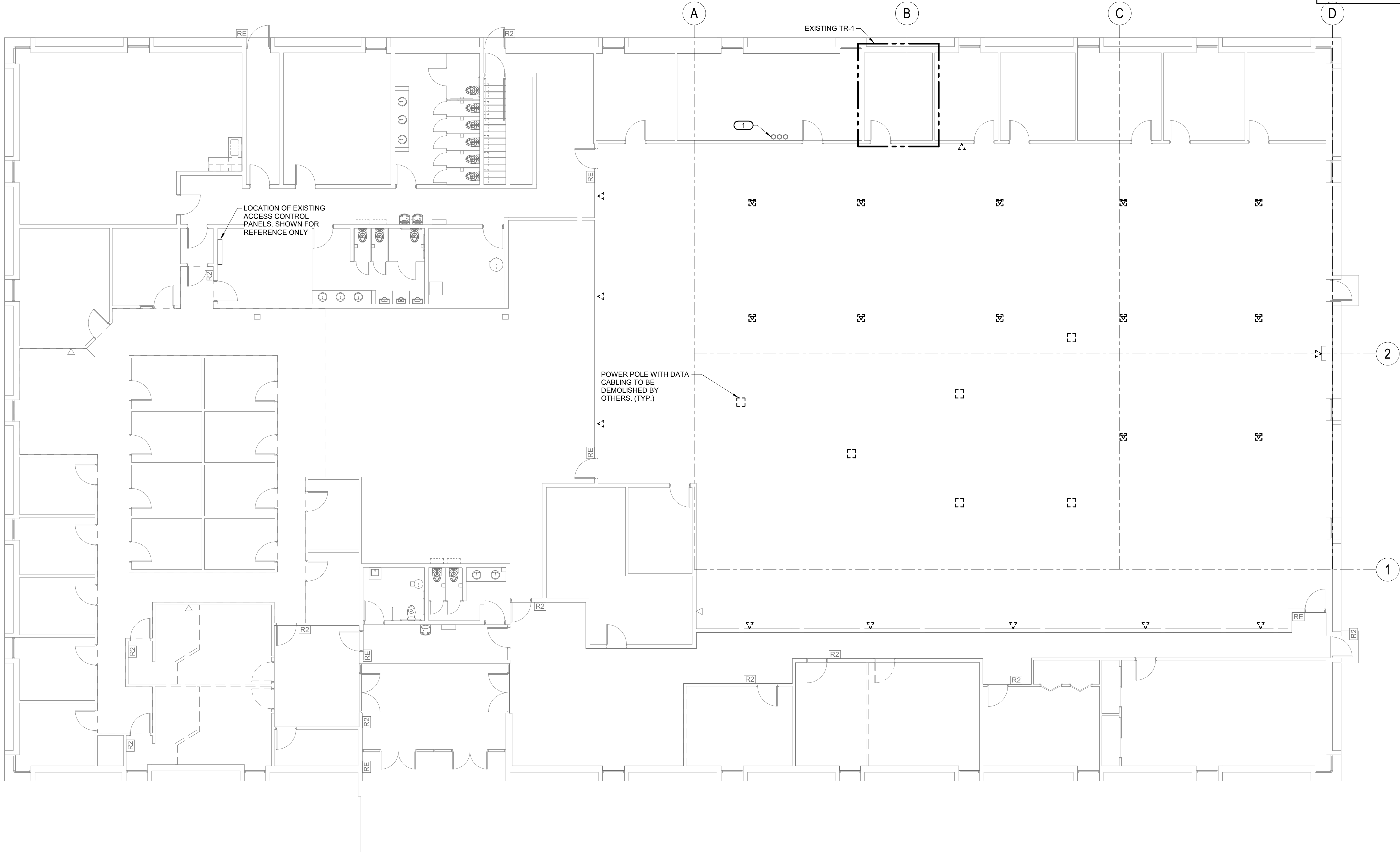
1/8" = 1'-0"

### SHEET NOTES:

1. ALL EXISTING CATEGORY CABLING TO BE DEMOLISHED BY OTHERS. SHOWN FOR REFERENCE ONLY. NO SCOPE

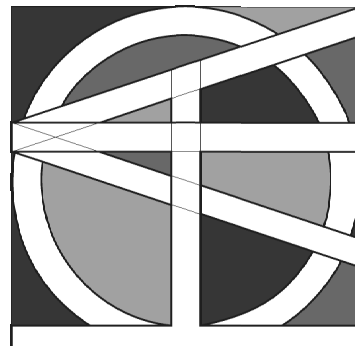
### KEYNOTES:

1. EXISTING PATHWAYS FROM FLOOR BELOW TO ABOVE ACCESSIBLE CEILING. SEE T200 FOR BASEMENT PLAN. SHOWN FOR REFERENCE ONLY.



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LEVEL 01  
DEMOLITION  
PLAN -  
TECHNOLOGY

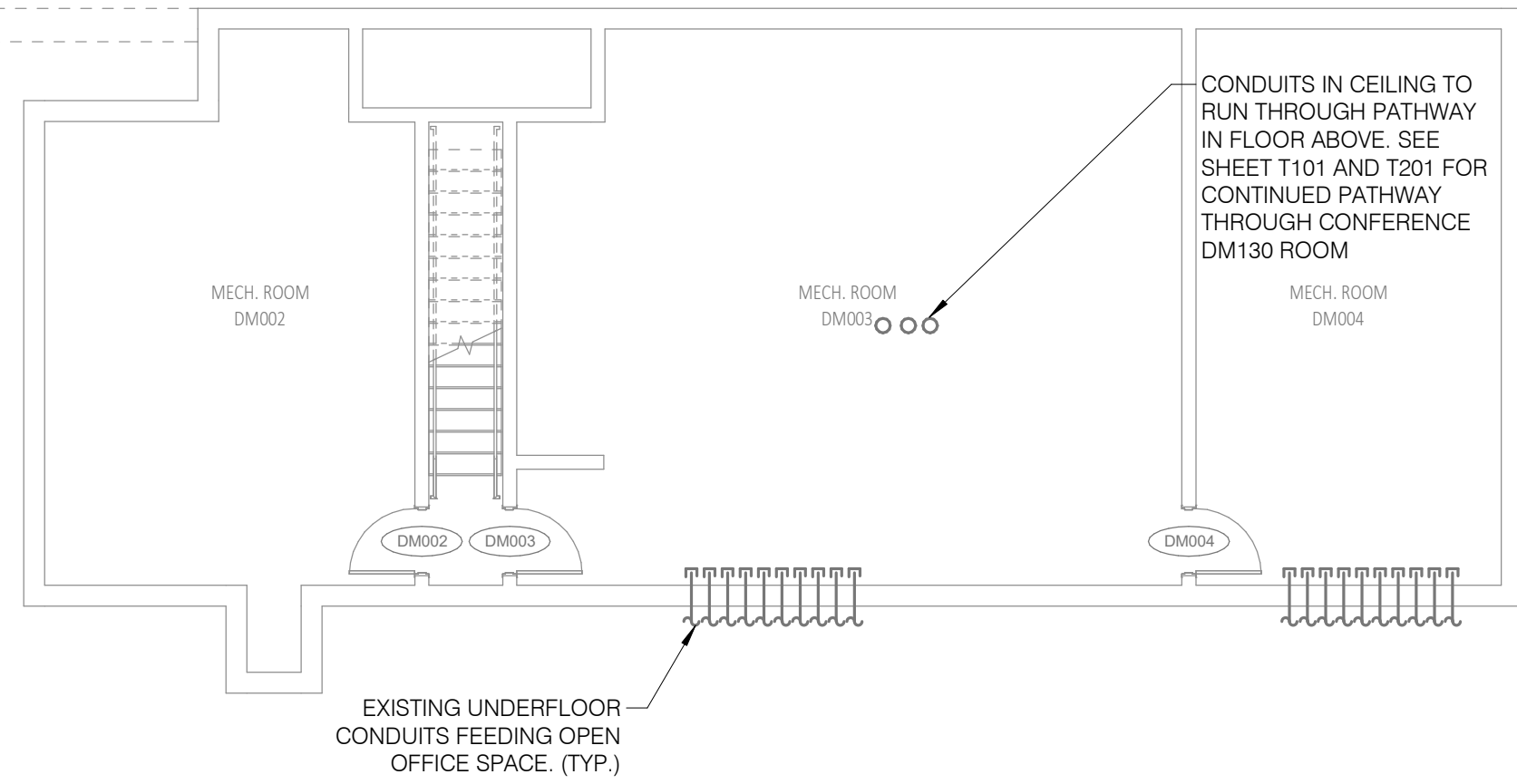
T101



1

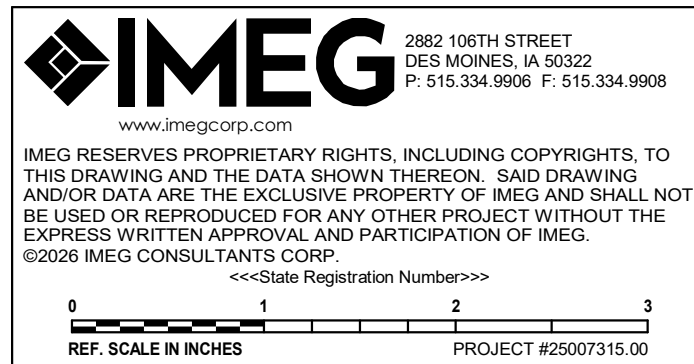
**BASEMENT PLAN - TECHNOLOGY**

1/8" = 1'-0"



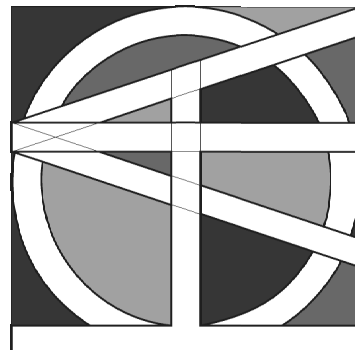
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**SHEET TITLE**

**BASEMENT  
PLAN -  
TECHNOLOGY**

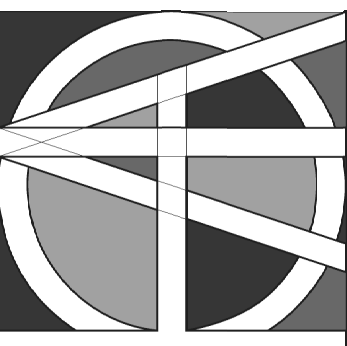
**T200**

$$1/8'' = 1'-0''$$
$$1/8'' = 1'-0''$$

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# T201

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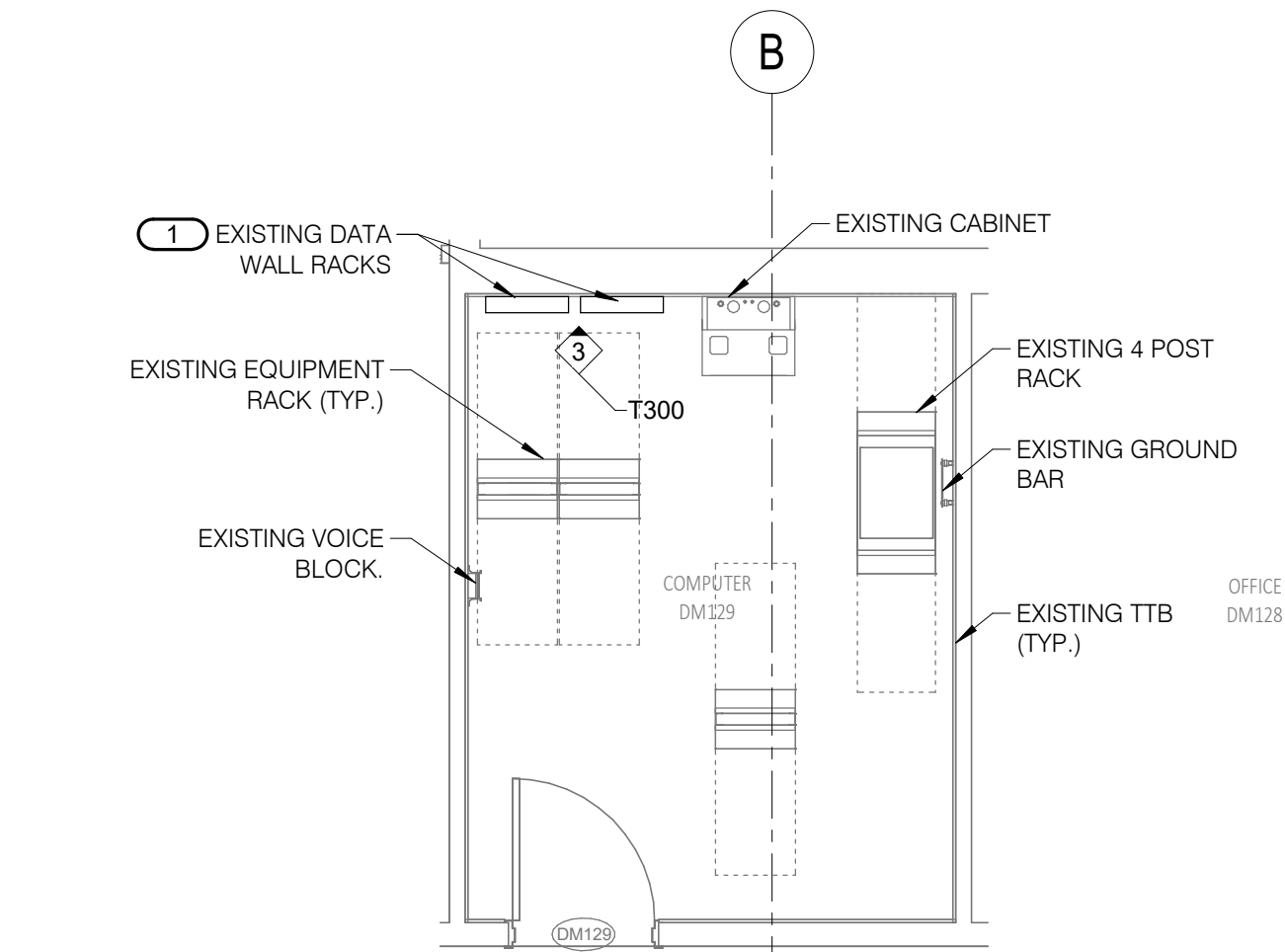
# LEVEL 01 PLAN - TECHNOLOGY

## LEVEL 01

## PLAN -

## TECHNOLOGY

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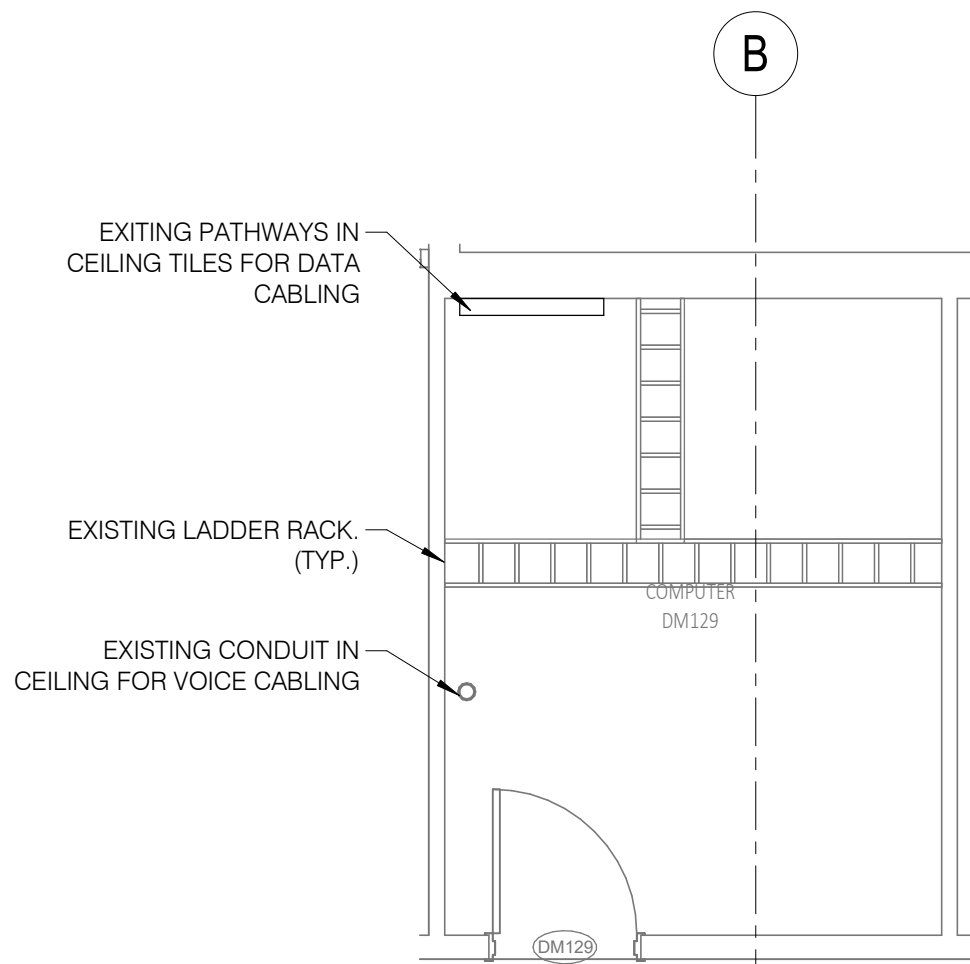


### 1 EQUIPMENT ROOM LAYOUT - EXISTING TR-1

1/4" = 1'-0"

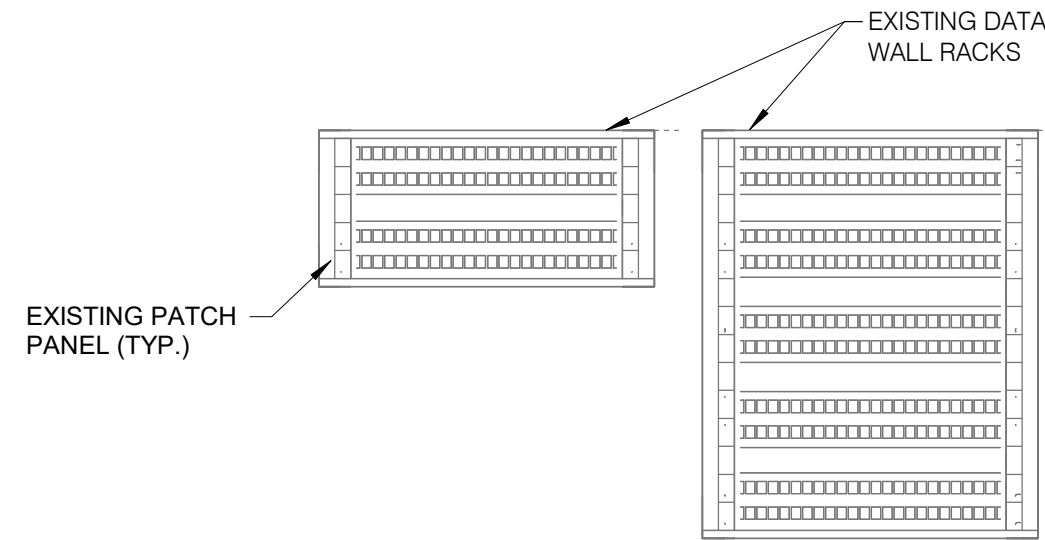
#### KEYNOTES:

1. HORIZONTAL CABLING TO BE DEMO'D ROUTES BACK TO THE WALL RACKS AT THIS LOCATION.



### 2 PATHWAY ROOM LAYOUT - EXISTING TR-1

1/4" = 1'-0"



### 3 EQUIPMENT RACK ELEVATION - EXISTING TR-1

1" = 1'-0"

#### NOTES:

1. CONTRACTOR TO DEMOLISH PATCH PANELS AS NECESSARY WITH CABLING DEMOLITION.

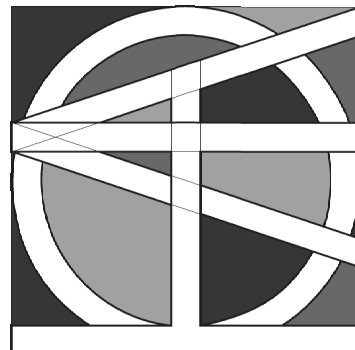
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SHEET TITLE

TECHNOLOGY  
ENLARGEMENTS

T300

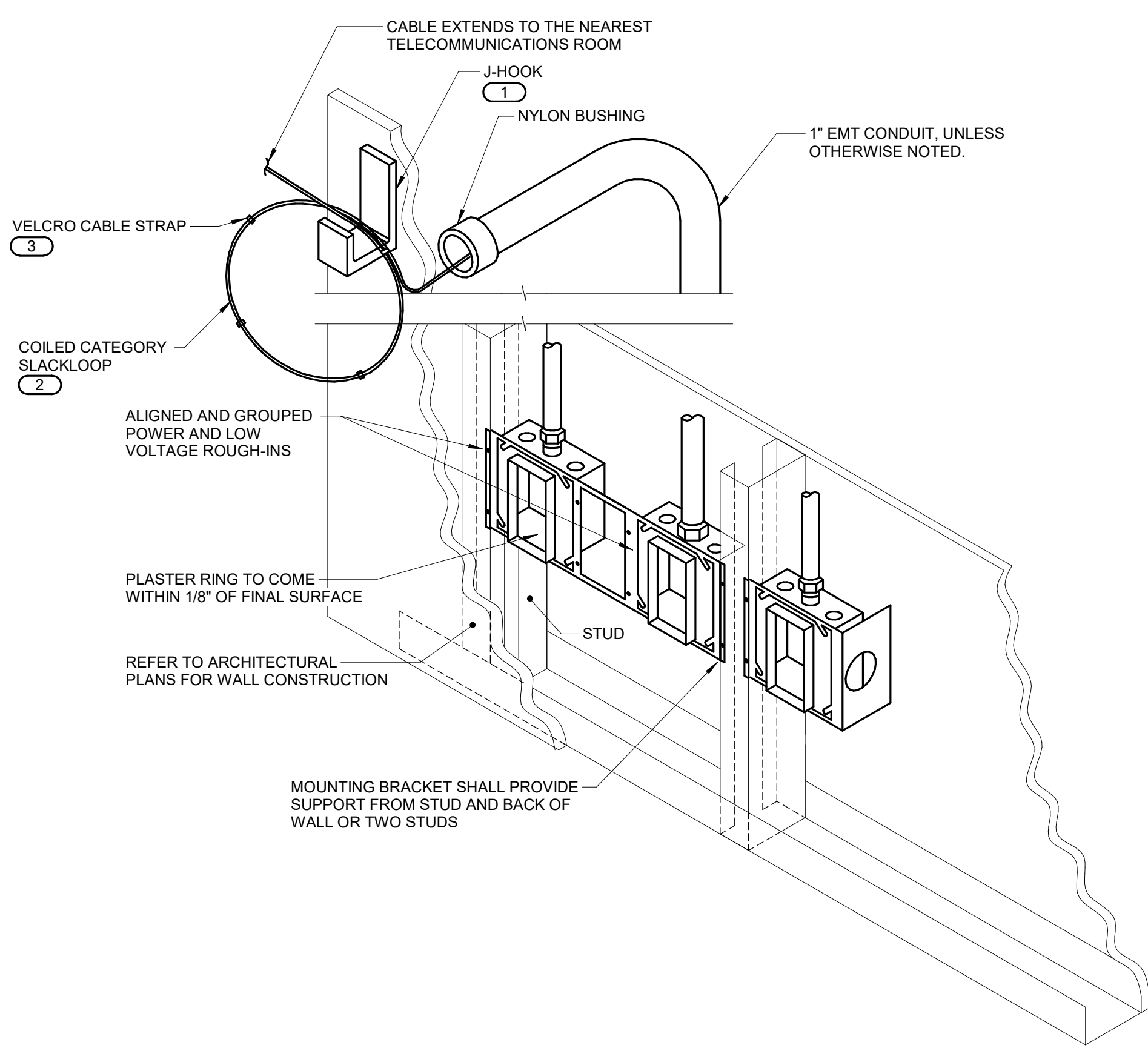
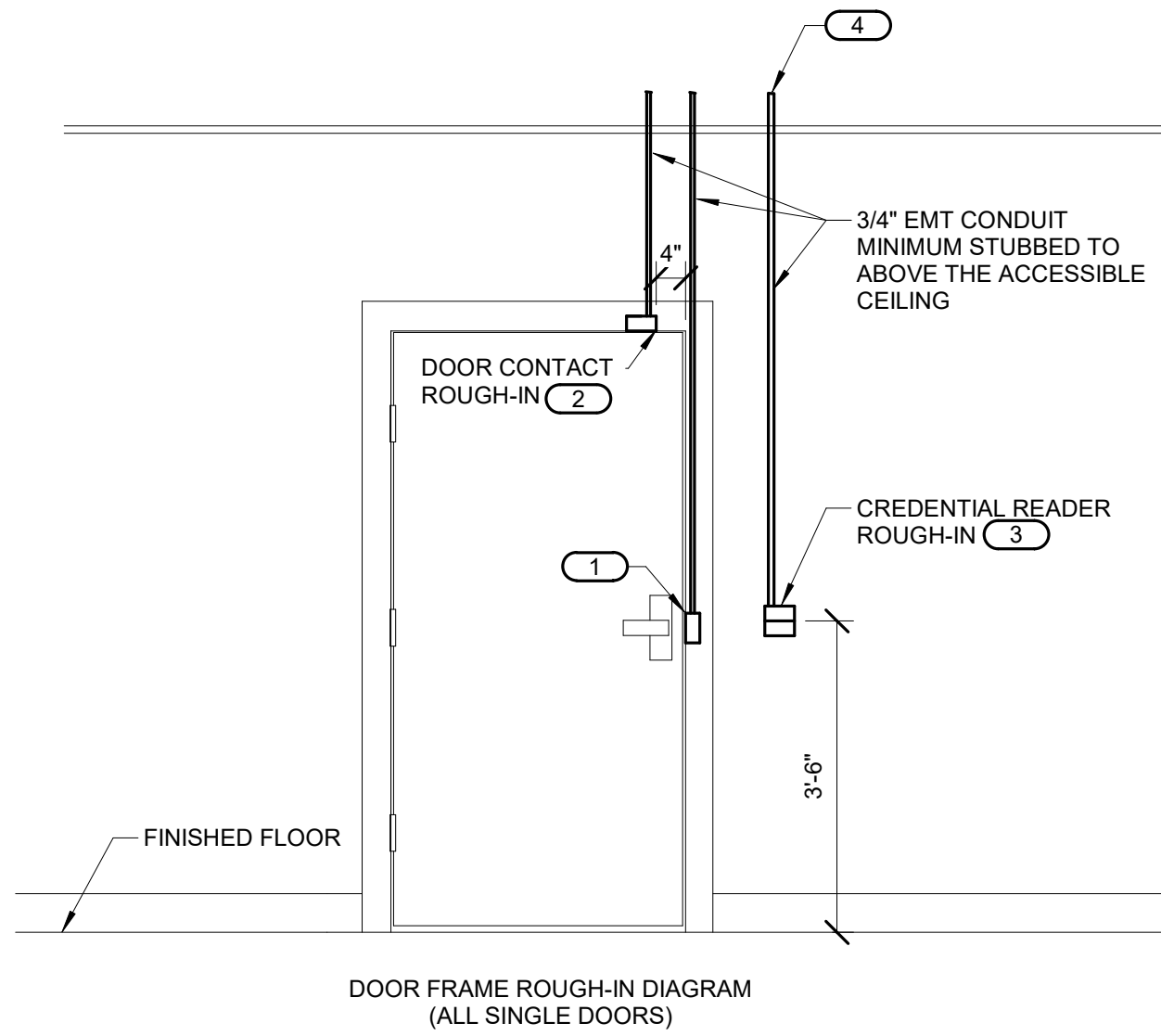
## 1 ACCESS CONTROL DOOR ROUGH-IN DETAIL

NO SCALE

- NOTES:**
- CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE ACCESS CONTROL DOOR ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
  - ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL ACCESS CONTROL SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND ACCESS CONTROL DEVICES AND CABLING PRIOR TO INSTALLATION.
  - THE ELECTRICAL OR SECURITY NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
  - FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL ACCESS CONTROL DOOR ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
  - REFER TO THE ACCESS CONTROL RISER DIAGRAM FOR CABLING REQUIREMENTS AND THE ACCESS CONTROL DOOR TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
  - THIS ROUGH-IN DETAIL APPLIES ONLY TO NEW DOOR INSTALLATIONS. EXISTING DOORS WILL UTILIZE EXISTING DOOR FRAMES FOR CABLE ROUTING BY OTHERS.
  - REFER TO ACCESS CONTROL RISER DIAGRAM ON 2/T500 FOR WIRING INFORMATION.

**KEYNOTES:**

- PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
- ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
- 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS. THIS IS THE ONLY ROUGH-IN REQUIREMENT FOR EXISTING DOORS. ALL OTHER CABLING WILL BE ROUTED THROUGH DOOR FRAMES BY OTHERS.
- CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURED SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO THE NEAREST TELECOM ROOM. PROVIDE A NYLON BUSHING ON CONDUIT END.



## 2 TECHNOLOGY ROUGH-IN DETAIL

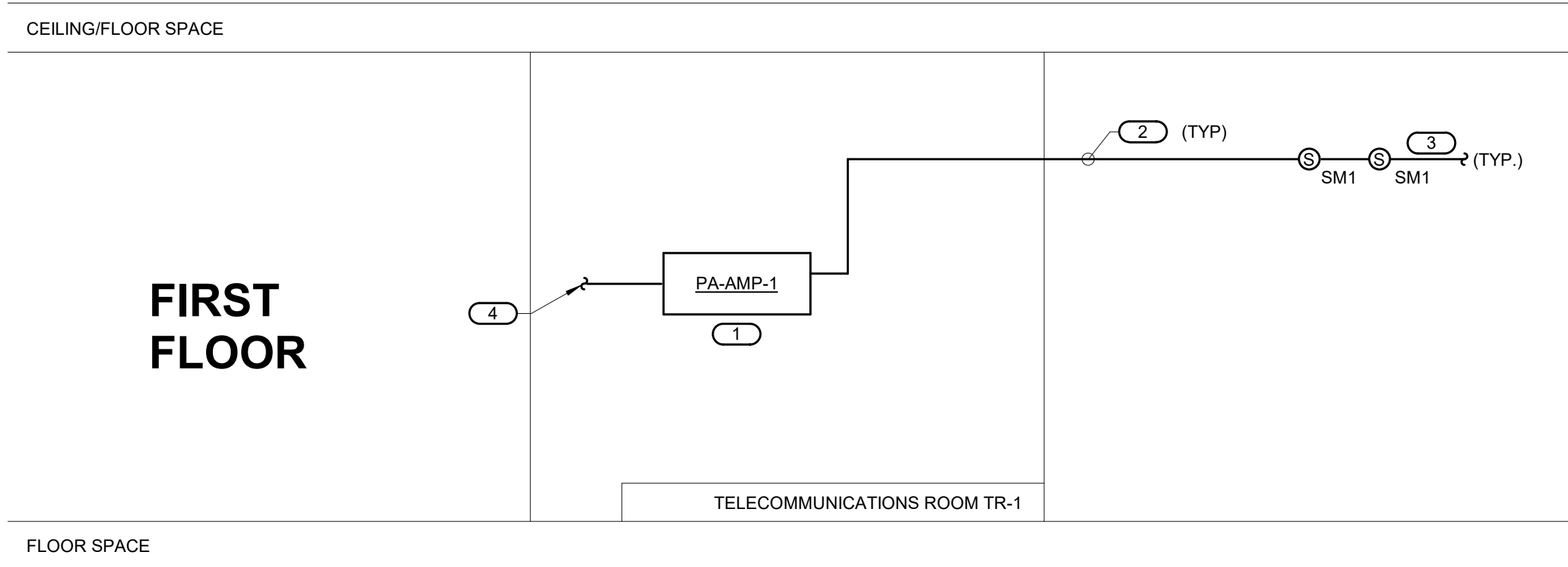
NO SCALE

**NOTES:**

- THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
- PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
- METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RB## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
- MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
- WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
- TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
- WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
- ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
- FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

**KEYNOTES:**

- MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
- REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
- PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.



**NOTES:**

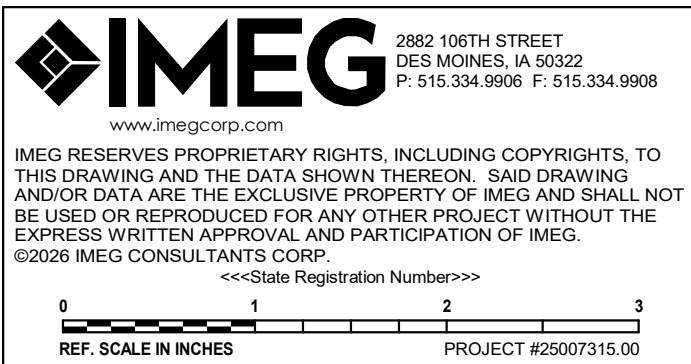
- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROPERLY BOND ALL DRAIN CONDUCTORS OF SHIELDED SPEAKER CABLES TO NEAREST SC-GND-1 IN ORIGIN TELECOMMUNICATIONS ROOM ONLY.
- HORIZONTAL SPEAKER CABLING CONNECTING SPEAKERS AND VOLUME CONTROLS MAY BE T-TAPPED ONLY AT SPEAKER AND VOLUME CONTROL LOCATIONS. ALL HORIZONTAL SPEAKER CABLING CONNECTIONS SHALL BE MADE IN COVERED DEVICE BOXES OR JUNCTION BOXES. CONTRACTOR SHALL SIZE DEVICE BOXES AND JUNCTION BOXES PER APPLICABLE CODES FOR THE AMOUNT OF CABLING SERVED. MAINTAIN CONTINUITY OF DRAIN CONDUCTOR BETWEEN SECTIONS OF HORIZONTAL SPEAKER CABLE AT ALL CONNECTION POINTS. BACKBONE CABLES SHALL NOT BE SPLICED.
- SOUND MASKING/PAGING AUDIO SIGNAL SHALL BE ZONED TO OPEN OFFICE AND CORRIDOR AREAS. PAGING ONLY AUDIO SIGNAL SHALL BE ROUTED TO AREAS SUCH AS RESTROOMS, MAIL ROOMS, CONFERENCE ROOMS, ETC.
- ALL NECESSARY CONNECTIONS TO BE COMPLETED BY THIS CONTRACTOR.

**KEYNOTES:**

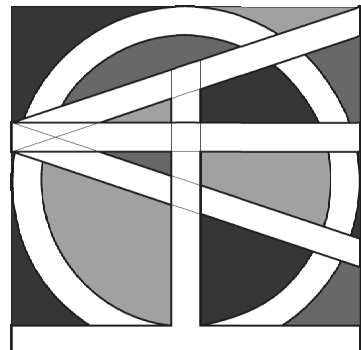
- COORDINATE MOUNTING LOCATION OF SOUND MASKING EQUIPMENT WITH OWNER PRIOR TO INSTALLATION IN TR-1 ROOM.
- ONE (1) MINIMUM 18/2 SHIELDED CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FURNISH AND INSTALL LARGER-GAUGE CABLE WHERE NECESSARY TO MAINTAIN ACCEPTABLE VOLTAGE DROP AS DEFINED IN SPECIFICATIONS.
- OVERHEAD SOUND MASKING SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF SPEAKERS AND VOLUME CONTROLS. WHERE TAP VALUES ARE NOT LISTED IN SPECIFICATIONS OR ON DRAWINGS, TAP SPEAKERS AS REQUIRED TO ACHIEVE SPECIFIED PERFORMANCE.
- COORDINATE CONNECTION WITH FIRE ALARM CONTRACTOR. THIS CONNECTION PROVIDE SHUNT TO SHUNT SOUND MASKING SYSTEM WHEN FIRE ALARM SYSTEM IS ACTIVATED.

## 3 OVERHEAD SOUND MASKING SYSTEM RISER DIAGRAM (ADD ALTERNATE #2)

NO SCALE



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**SHEET TITLE**

TECHNOLOGY  
DETAILS AND  
DIAGRAMS

T400

| TECHNOLOGY EQUIPMENT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |
| CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |
| EQUIPMENT LIST ABBREVIATION                                                                                                                                                                                                                                                                                                                                                                                                                     | EQUIPMENT LIST DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MANUFACTURER AND MODEL                              |
| AC-R1-W                                                                                                                                                                                                                                                                                                                                                                                                                                         | CARD READER ROUGH-IN, WALL MOUNT, PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION.                                                                                                                                                                                                                                                                                                    | ROUGH-IN ONLY                                       |
| PA-AMP-1                                                                                                                                                                                                                                                                                                                                                                                                                                        | REFER TO SHEET DOOR ROUGH-IN DETAIL, 1/T400 FOR COMPLETE INSTALLATION INFORMATION AND ACCESS CONTROL DOOR TYPE SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.<br><br>SOUND MASKING CONTROL MODULE AMPLIFIER, ACCEPT EITHER A BALANCED OR SINGLE-ENDED INPUT SOURCE. OUTPUT TERMINALS ARE PROVIDED. 2 AUDIO INPUTS FOR PAGING AND MUSIC. INCLUDE WALL BRACKETS.<br><br>REFER TO 3/T500 FOR SOUND MASKING SYSTEM RISER DIAGRAM.<br><br>THIS ITEM SHALL BE BID AS ALTERNATE #2. | CAMBRIDGE SOUND QT X 800<br><br>OR APPROVED EQUAL   |
| PA-SM1-C                                                                                                                                                                                                                                                                                                                                                                                                                                        | SOUND MASKING SPEAKER, CEILING MOUNTED. INPUT LEVEL: +24dBu, INPUT IMPEDANCE: BRohm WITH TWO NUMBERS OF OUTPUT, OPERATING VOLTAGE: 100-240V AC 50/60HZ, CURRENT DRAW: 1.25A, OUTPUT 24V DC @ 2.7A WITH TOTAL OF 30W POWER CONSUMPTION. OVERALL DIMENTION IS 3.5"H X 14 5/8"W X 3.8"D.<br><br>REFER TO 3/T500 FOR SOUND MASKING SYSTEM RISER DIAGRAM.<br><br>THIS ITEM SHALL BE BID AS ALTERNATE #2.                                                                        | CAMBRIDGE SOUND DS1320-W-4<br><br>OR APPROVED EQUAL |
| SC-R1-W                                                                                                                                                                                                                                                                                                                                                                                                                                         | INFORMATION OUTLET ROUGH-IN ONLY, WALL MOUNT, SHOWN ON DRAWINGS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. INSTALL A 1" EMT.<br><br>CONDUIT TO ACCESSIBLE CEILING. REFER TO 2/T400 FOR TECHNOLOGY ROUGH-IN TO DETAIL.                                                                                                                                                                                                               | NOT IN SCOPE. FOR REFERENCE ONLY                    |

| ACCESS CONTROL DOOR TYPE SCHEDULE                                                                                                                                                                                                                                                              |                    |               |                   |  |                 |                            |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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