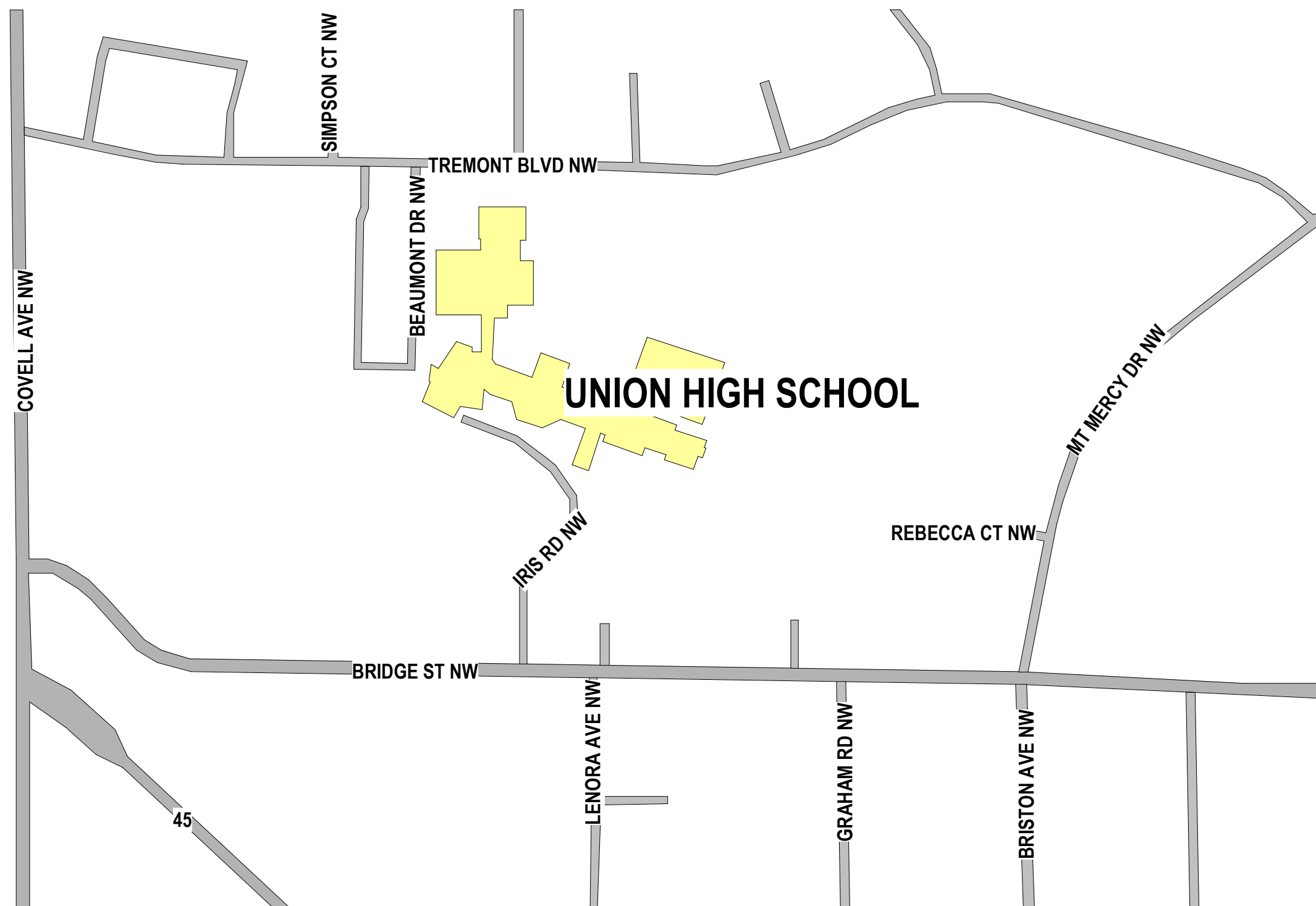
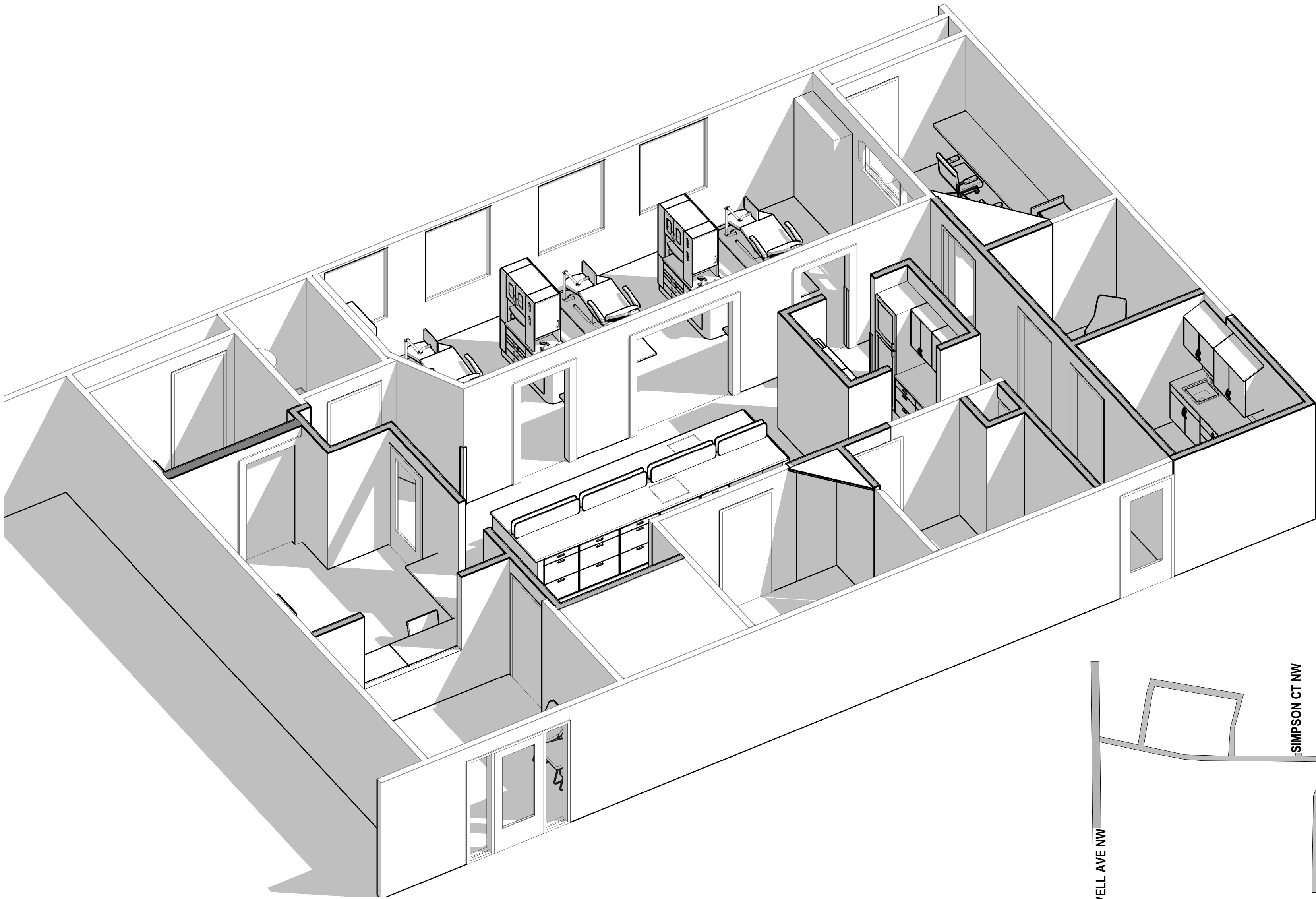


UNION HS HEALTH CENTER RENOVATIONS

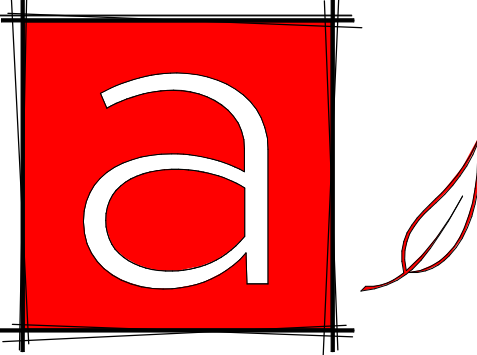
GRAND RAPIDS PUBLIC SCHOOLS

1800 TREMONT BLVD NW, GRAND RAPIDS MI 49504



DRAWING INDEX

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1800 TREMONT BLVD NW, GRAND RAPIDS MI 49504

PROJECT NO. 1342  
ISSUANCES

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| 2 JUNE 2025 | BIDS AND PERMITS |
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| NO. | DATE | DESCRIPTION |
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CALL 811

CONTRACTOR TO CONTACT 811 SERVICE AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION, TO CONFIRM LOCATION OF EXISTING UTILITIES. DIAL 811. [www.CALL811.com](http://www.CALL811.com)



Know what's below.  
Call before you dig.

PREPARER NOTES:

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I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, CONFORM TO THE APPLICABLE CODES AND ORDINANCES.

KIRSTEN A. RUNSCHKE  
LICENSE EXPIRES

DATE  
09-27-2025



TITLE DRAWING

SCALE :  
As indicated

T-1



Classic Engineering, LLC

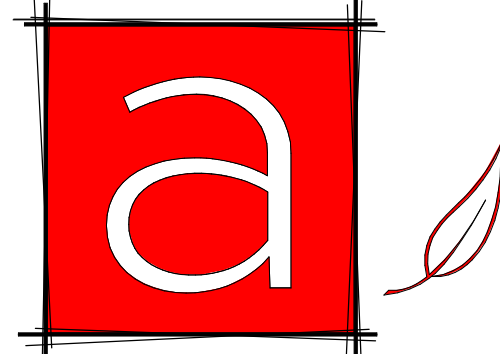


CODE SUMMARY

- A. APPLICABLE CODES:
- BUILDING CODES:
    - 2021 MICHIGAN REHABILITATION CODE (MRC)
    - 2021 MICHIGAN BUILDING CODE (MBC)
    - 2021 MICHIGAN COMMERCIAL ENERGY CODE (MCEC)
    - 2017 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
  - MECHANICAL CODES:
    - 2021 MICHIGAN MECHANICAL CODE (MMC)
    - 2021 MICHIGAN PLUMBING CODE (MPC)
  - ELECTRICAL CODE:
    - 2023 NATIONAL ELECTRICAL CODE (NEC)
  - EXISTING AND/OR PROPOSED BUILDING DATA:
    - USE: OFFICE BUILDING, USE GROUP E - NO CHANGE TO EXISTING USE
    - CONSTRUCTION: TYPE 3B - EXISTING TO REMAIN
    - CLASSIFICATION OF WORK: ALTERATION - LEVEL 2 (MRC)
    - BUILDING AREA: NO CHANGE TO EXISTING AREA OR HEIGHT
      - EXISTING FLOOR AREA: 286,000 SF
      - WORK AREA: 1,950 SF
      - CALCULATED PERCENTAGE: 1%
    - AUTOMATIC FIRE SUPPRESSION:
      - FACILITY FULLY SPRINKLERED
      - FIRE EXTINGUISHERS: REQUIRED
  - OCCUPANT LOAD FOR EGRESS PURPOSES:
    - USE AND OCCUPANCY: EXISTING SINGLE-OCCUPANT FACILITY
  - MEANS OF EGRESS REQUIREMENTS:
    - NON-APPLICABLE FOR SINGLE-OCCUPANCY, SINGLE-TENANT STRUCTURE.
    - MAX DEAD END CORRIDOR: 50 FT.
  - ACCESSIBILITY:
    - SCOPE OF ALTERATION SHALL NOT REDUCE THE ACCESSIBILITY OF THE EXISTING FACILITY
    - ALL WORK IN ALTERED AREA(S) SHALL MEET STATE ACCESSIBILITY REQUIREMENTS TO THE MAXIMUM AMOUNT FEASIBLE
    - ALTERATION OF AREA(S) CONTAINING PRIMARY FUNCTION:
      - ACCESSIBLE ROUTE TO PRIMARY FUNCTION SHALL BE PROVIDED
      - ACCESSIBLE ROUTE FROM PRIMARY FUNCTION TO TOILET FACILITIES AND DRINKING FOUNTAINS SHALL BE PROVIDED.
  - PLUMBING FIXTURE REQUIREMENTS:
    - INCREASE IN FLOOR OCCUPANY LOAD < 20% - EXISTING FIXTURES TO REMAIN (MRC)

CODE LEGEND

- 100 EXIT/EXIT ACCESS WITH CAPACITY SERVED
- DIRECTION OF EGRESS INCLUDING SECONDARY EXIT/EXIT ACCESS
- # OCCUPANT LOAD OF SPACE AND BASIS FOR CALCULATION  
XXXXXX SF
- SMOKE TIGHT WALL CONSTRUCTION
- FE FIRE EXTINGUISHER
- EXIT EXIT SIGN AND STROBE



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PROJECT NO. 1342  
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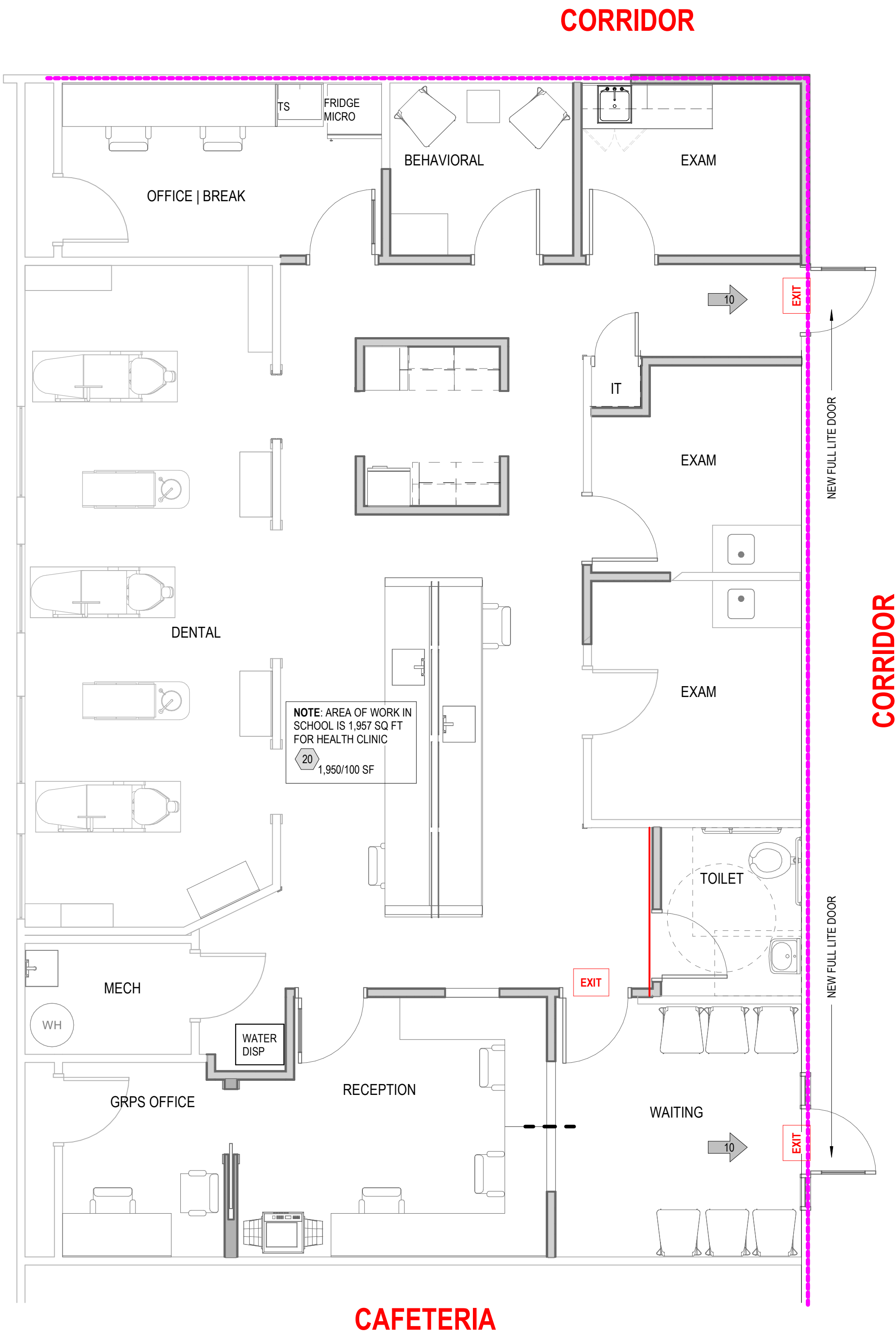
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CODE COMPLIANCE PLANS

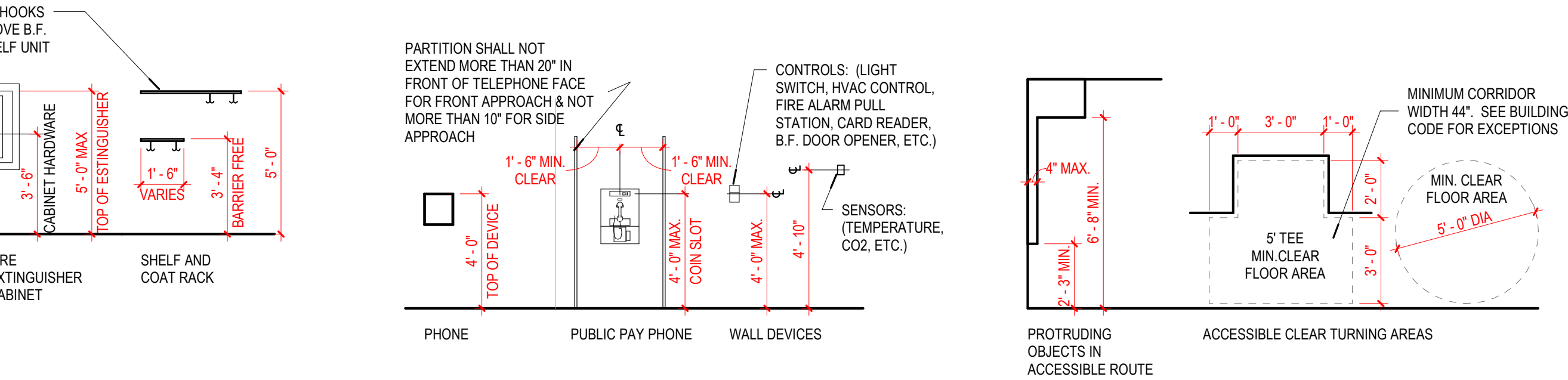
SCALE : As indicated

G-1



CODE COMPLIANCE PLAN

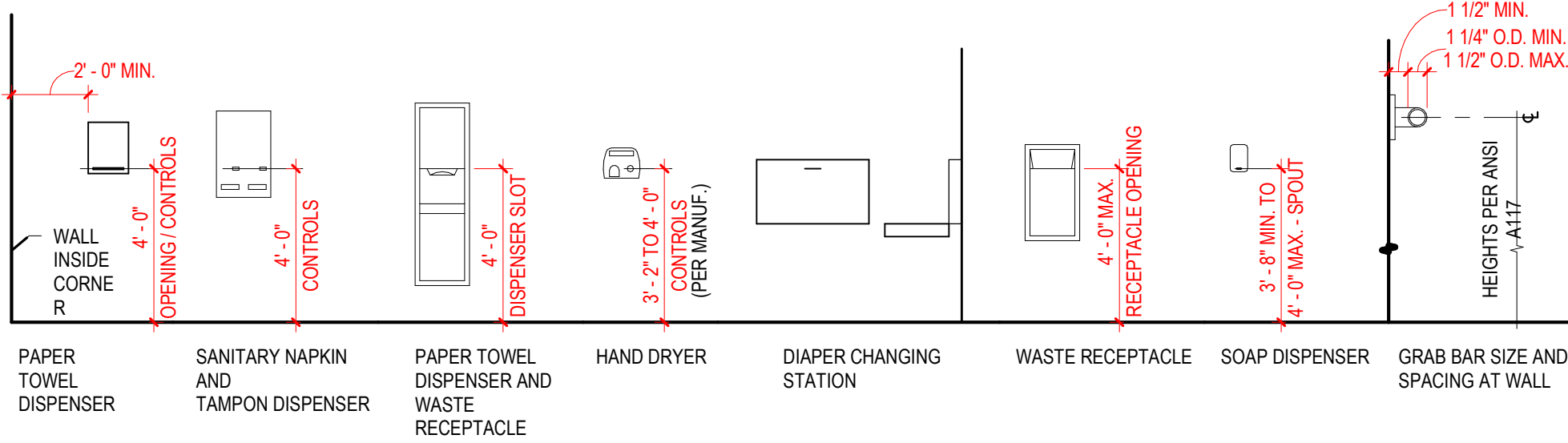
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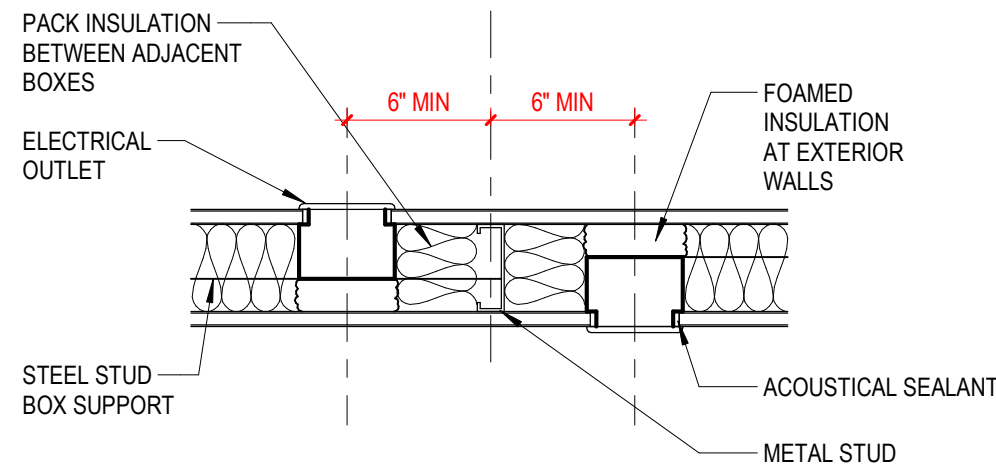
MISC. ACCESSORIES

MISCELLANEOUS DEVICES

ACCESSIBLE CLEARANCES



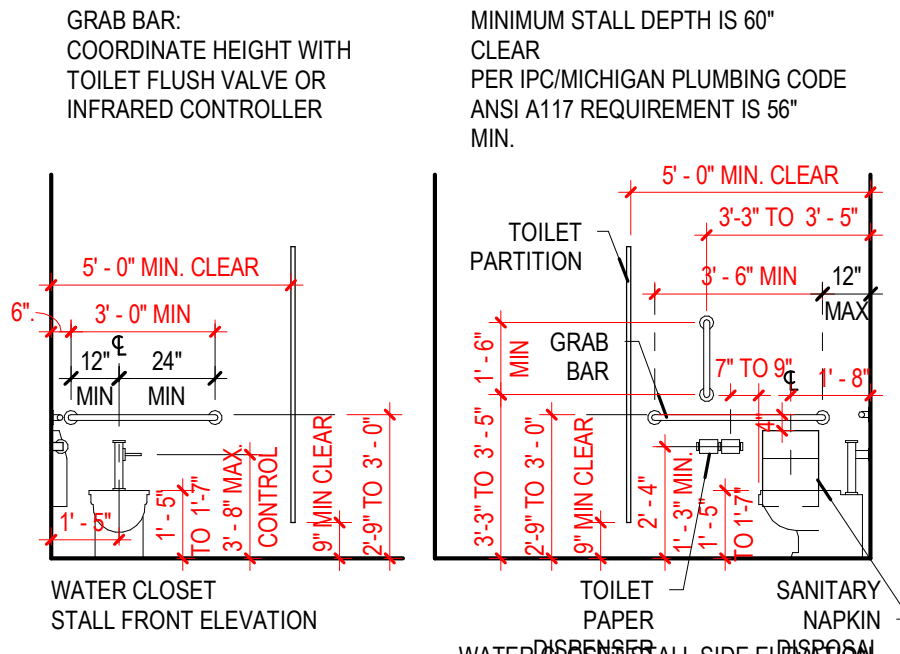
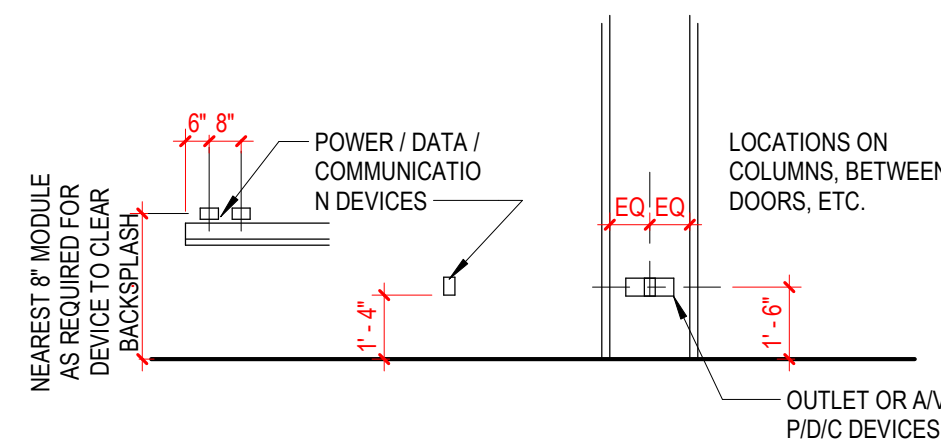
TOILET ROOM ACCESSORIES



BACK-TO-BACK OUTLETS IN STUD WALLS

NOTES

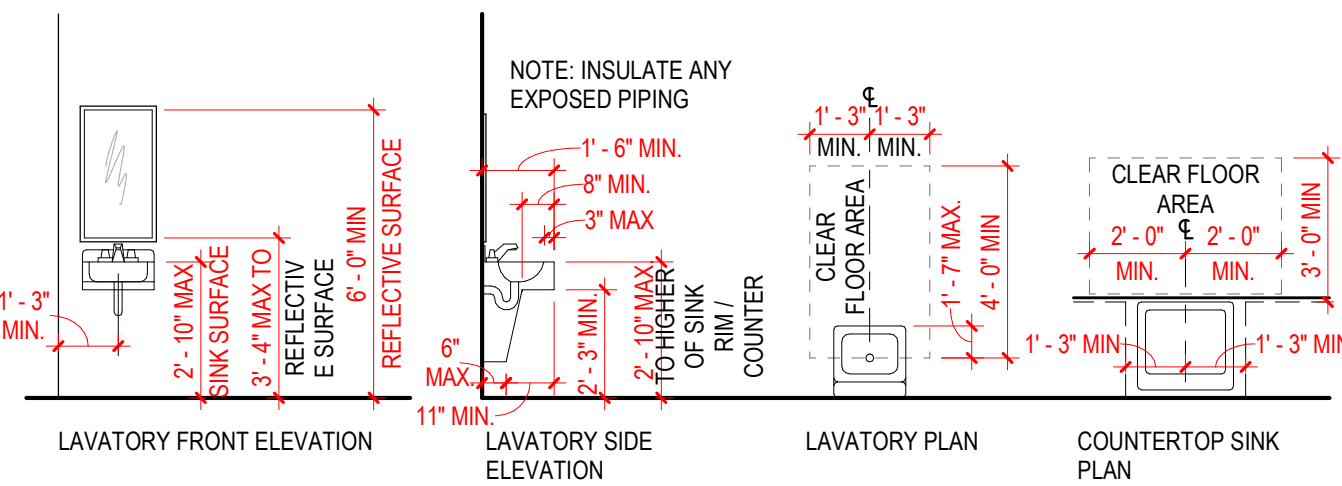
- INTENT - ESTABLISHMENT OF COMMON DATUM LINES THROUGHOUT PROJECT FOR WALL-MOUNTED DEVICES.
- MASONRY / TILE CONSTRUCTION - ADJUST DEVICES AS REQUIRED TO INTEGRATE WITH MASONRY / TILE COURSING.
- METAL STUD CONSTRUCTION - ADJUST DEVICES AS REQUIRED TO INTEGRATE WITH STUD SPACING.



FLOOR MOUNTED W.C.

USE:  
STRAIGHT GRAB BAR 36" x 1 1/2" DIA (BACK WALL)  
STRAIGHT GRAB BAR 42" x 1 1/2" DIA (SIDE WALL)  
STRAIGHT GRAB BAR 18" x 1 1/2" DIA VERT. (SIDE WALL)

ELECTRICAL DEVICES



PLUMBING FIXTURES

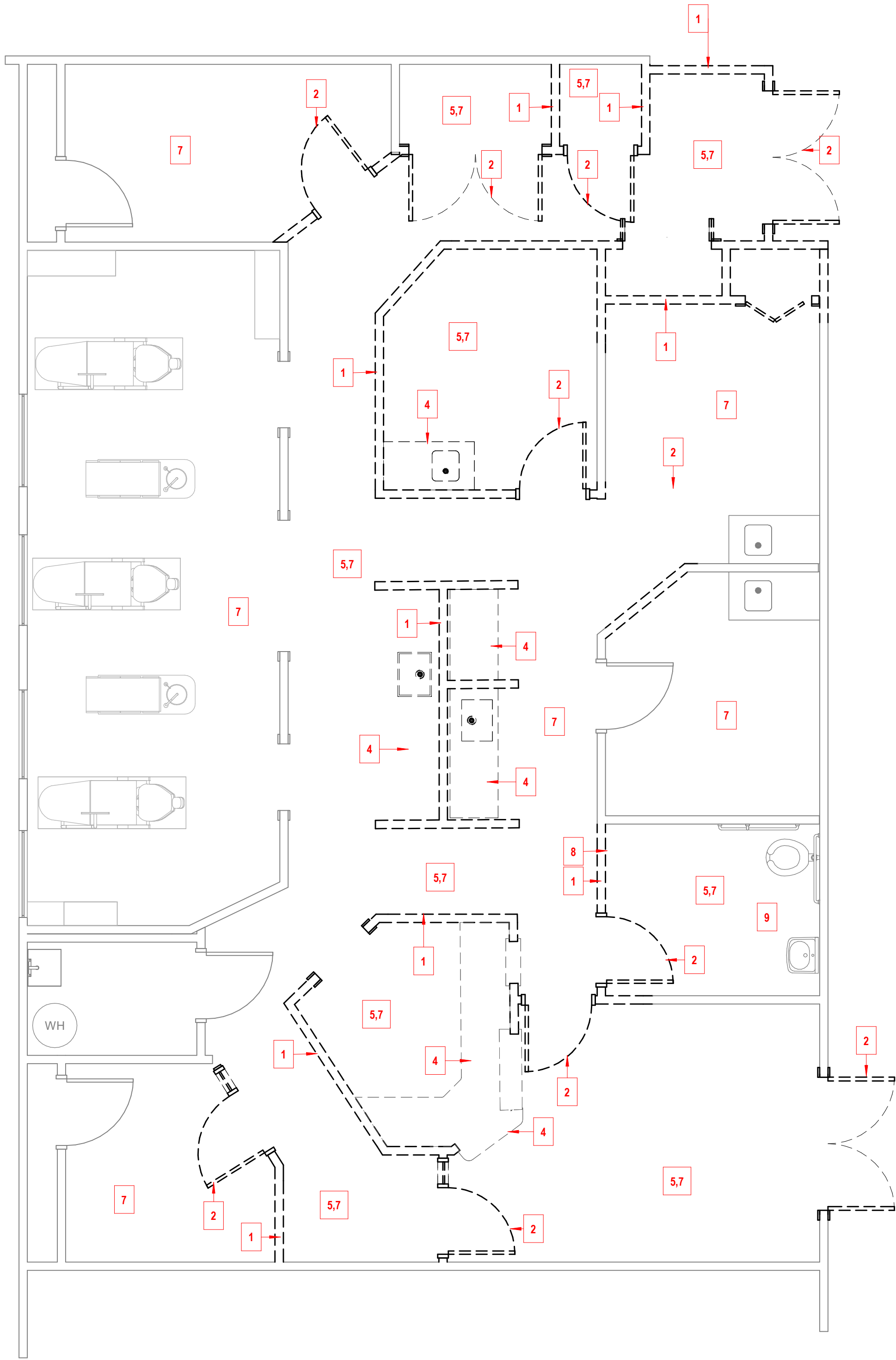


## GENERAL FINISH PLAN NOTES

- FLOORING:  
A. ALL FLOORING MATERIALS SHALL BE INSTALLED IN DIRECTION INDICATED ON FINISH PLAN(S), UNLESS OTHERWISE INDICATED.  
B. PROVIDE A LEVELING COMPOUND BETWEEN FLOOR MATERIALS OF DIFFERENT THICKNESS. FEATHER FLOOR FOR SMOOTH TRANSITION.
- BASE:  
A. TYPICAL BASE PROFILE AT CARPET SHALL BE STRAIGHT, UNLESS OTHERWISE INDICATED ON PLAN.  
B. TYPICAL BASE PROFILE AT RESILENT FLOORING SHALL BE COVE, UNLESS OTHERWISE INDICATED ON PLAN.  
C. WHERE SHEET MATERIALS ARE USED, STANDARD BASE DETAIL SHALL BE FLASH COVE, UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS MANUAL FOR MORE INFORMATION.
- WALLS:  
A. ALL FIRE EXTINGUISHER CABINETS, IN FINISH OTHER THAN BRUSHED ALUMINUM, SHALL BE PAINTED. COLOR TO MATCH ADJACENT WALL COLOR.
- CEILING:  
A. REFER TO INTERIOR FINISH LIST FOR CEILING TYPES. SEE REFLECTED CEILING PLAN(S) FOR LOCATIONS AND HEIGHTS.

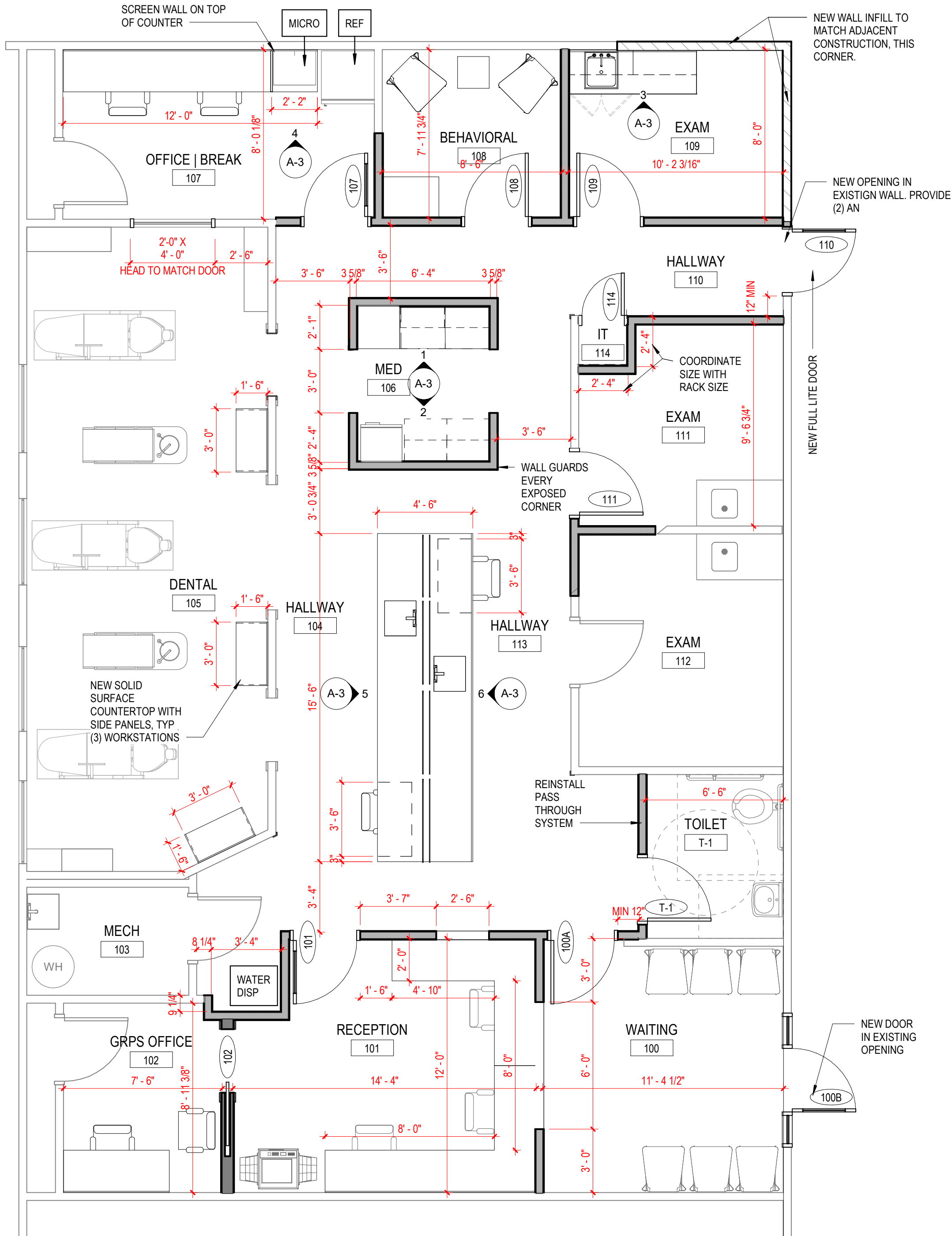
## ROOM FINISH SCHEDULE 1

| NO.         | ROOM           | FLOORS |       | WALLS |      |       |      | CEILING | REMARKS                    |
|-------------|----------------|--------|-------|-------|------|-------|------|---------|----------------------------|
|             | NAME           | FINISH | BASE  | NORTH | EAST | SOUTH | WEST | FINISH  |                            |
| FIRST FLOOR |                |        |       |       |      |       |      |         |                            |
| 100         | WAITING        | CPT-1  | RB-1  | PT-1  |      |       |      | ACP-1   | PATCH IN TO MATCH EXISTING |
| 101         | RECEPTION      | CPT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 102         | GRPS OFFICE    | CPT-1  | RB-1  |       |      |       |      | EX      |                            |
| 103         | MECH           | EX     | RB-1  |       |      |       |      | EX      |                            |
| 104         | HALLWAY        | LVT-1  | RB-1  |       |      |       |      | ACP-1   | PATCH IN TO MATCH EXISTING |
| 105         | DENTAL         | LVT-1  | RB-1  |       |      |       |      | EX      |                            |
| 106         | MED            | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 107         | OFFICE   BREAK | CPT-1  | RB-1  |       |      |       |      | EX      |                            |
| 108         | BEHAVIORAL     | CPT-1  | RB-1  |       |      |       |      | ACP-1   | PATCH IN TO MATCH EXISTING |
| 109         | EXAM           | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 110         | HALLWAY        | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 111         | EXAM           | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 112         | EXAM           | LVT-1  | RB-1  |       |      |       |      | EX      | PATCH IN TO MATCH EXISTING |
| 113         | HALLWAY        | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| 114         | IT             | LVT-1  | RB-1  |       |      |       |      | ACP-1   |                            |
| T-1         | TOILET         | LVT-1  | PCT-1 |       |      |       |      | ACP-1   |                            |



FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"



FIRST FLOOR PLAN

1/4" = 1'-0"

## GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- EXISTING BUILDING CONDITIONS BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
- BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
- REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY.
- WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
- REFER TO ALL DRAWINGS SHOWING NEW CONSTRUCTION AND COORDINATE DEMOLITION REQUIRED TO COMPLETE NEW WORK SHOWN.
- REFER TO DEMOLITION DRAWINGS AND OTHER DRAWINGS TO DETERMINE LOCATIONS THAT REQUIRE PATCHING DUE TO REMOVAL OF EXISTING ITEMS, INCLUDING MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
- PATCH ALL DISTURBED EXISTING SURFACES WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACE CONSTRUCTION.
- PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS.

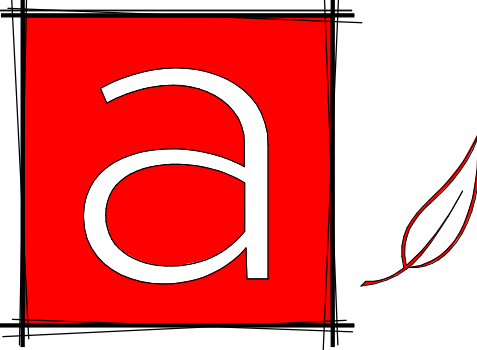
## INTERIOR WALL GENERAL NOTES

- EXISTING WALL CONSTRUCTION NEW WALL CONSTRUCTION
- CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
  - PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING 3/4" ROOF/FLOOR DEFLECTION.
  - REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
  - PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
  - PERMANENTLY IDENTIFY FIRE RATED AND SMOKE RESISTANT PARTITIONS ON WALL ABOVE CEILINGS AT 30 FEET ON CENTER.
  - PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
  - ALL WALLS ARE 3/8" METAL FRAMING 16" O/C WITH 5/8" GYPSUM WALLBOARD EA SIDE, EXTEND TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE.

## DEMOLITION NOTES

- EXISTING BUILDING CONDITION BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
- BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
- COORDINATE DEMOLITION WITH ALL CONTRACTORS WORKING IN AREAS BEING RENOVATED.
- DURING DEMOLITION, PROTECT ALL ADJACENT CONSTRUCTION TO REMAIN.
- ANY ASBESTOS CONTAINING MATERIALS THAT ARE ENCOUNTERED ARE TO BE REMOVED BY THE OWNER.
- REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION DRAWINGS FOR ITEMS TO BE REMOVED NOT SHOWN HERE.
- COORDINATE THE RETURN AND STORAGE OF ALL ITEMS DESIGNATED AS SALVAGE WITH OWNER.
- PROVIDE TEMPORARY SHORING AND/OR STAGING OF THE DEMOLITION WORK.
- MANY OF THE MASONRY WALLS OF THIS BUILDING ARE LOAD-BEARING. COORDINATE DEMOLITION OF ALL WALLS OR PORTIONS OF WALLS FOR NEW OPENINGS WITH STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SHORING ALL STRUCTURE SUPPORTED BY BEARING WALLS PRIOR TO REMOVAL.

- REMOVE EXISTING WALL OR PORTION OF EXISTING WALL AS SHOWN ON FLOOR PLAN (MIN. 4" BELOW FLOOR SLAB) AND AS REQUIRED FOR NEW CONSTRUCTION. FLOOR SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW FLOOR MATERIAL. WALL SURFACE TO BE PATCHED AS REQUIRED TO RECEIVE NEW WALL FINISH. SEE MECHANICAL & ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS. SUPPORT UNBRACED SECTIONS OF WALL OR ROOF AS REQUIRED.
- REMOVE EXISTING DOOR & DOOR FRAME. (DOOR LINTEL TO REMAIN UNLESS OTHERWISE NOTED ON PLAN - SEE S0.01 FOR ADDITIONAL INFORMATION). WHERE DOOR FRAMES ARE TO REMAIN, PROTECT FRAMES FROM DAMAGE. SAND AND PREP FOR NEW PAINT FINISH UNDER SECTION 09.900. SEE DOOR SCHEDULE FOR REQUIRED NEW DOORS AND FRAMES OR ONLY NEW DOORS.
- SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL/ ELECTRICAL DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION, SEE S0.01 & S2.1A FOR ADDITIONAL INFORMATION REGARDING SLAB REMOVAL.
- REMOVE EXISTING CASEWORK/MILLWORK, COUNTER TOPS & BACK SPLASH. SAVE ITEMS AT OWNER'S REQUEST.
- REMOVE EXISTING SUSPENDED/PLASTER CEILING INCLUDING ALL FRAMING, TILES, TEES, HANGERS & WIRES USED TO SUPPORT THAT CEILING. REPLACE PER REFL. CEILING PLANS.
- SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL (i.e. LAVATORIES, SINKS, WATER CLOSETS, URINALS, FIN TUBE, MECH. DUCTWORK, UNIT VENTS, ETC).
- REMOVE EXISTING FLOOR COVERING AND BASE, INCLUDING ALL GLUE RESIDUE, ETC. FROM FLOOR & WALLS AND PREPARE SURFACE FOR NEW FINISH MATERIALS.
- REMOVE AND SALVAGE PASS THROUGH SYSTEM
- REMOVE ALL FIXTURES, TOILET ROOM ACCESSORIES, AND MIRRORS. SALVAGE, REINSTALL AFTER NEW TILE AND FLOORING IS COMPLETED.



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**FIRST FLOOR AND DEMOLITION PLANS, ROOM FINISHES**

SCALE :  
As indicated

**A-1**



REFLECTED CEILING PLAN GENERAL NOTES

1. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM / AREA OR ALIGNED WITH ADJACENT ROOM / AREA AS INDICATED, UNLESS NOTED OTHERWISE.
2. CEILING HEIGHTS INDICATED ARE DIMENSIONED FROM THE FINISHED FLOOR BELOW.
3. ALL LIGHT FIXTURES, SPRINKLER HEADS, RETURN AIR GRILLES AND SUPPLY AIR GRILLES ARE TO BE LOCATED IN THE CENTER OF THE CEILING PAD, UNLESS NOTED OTHERWISE.
4. FIRE PROTECTION CONTRACTOR TO COORDINATE LOCATIONS OF SPRINKLER HEADS WITH MECHANICAL AND ELECTRICAL CONTRACTOR. SEE NOTE ABOVE.
5. COORDINATE MECHANICAL, ELECTRICAL AND FIRE PROTECTION TO ASSURE PROPER CLEARANCES AND LAYOUT.
6. MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS TO PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE SIZE AND LOCATIONS OF ACCESS PANELS TO MINIMIZE QUANTITIES. CONTRACTOR IS REQUIRED TO PROVIDE LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN LEGEND

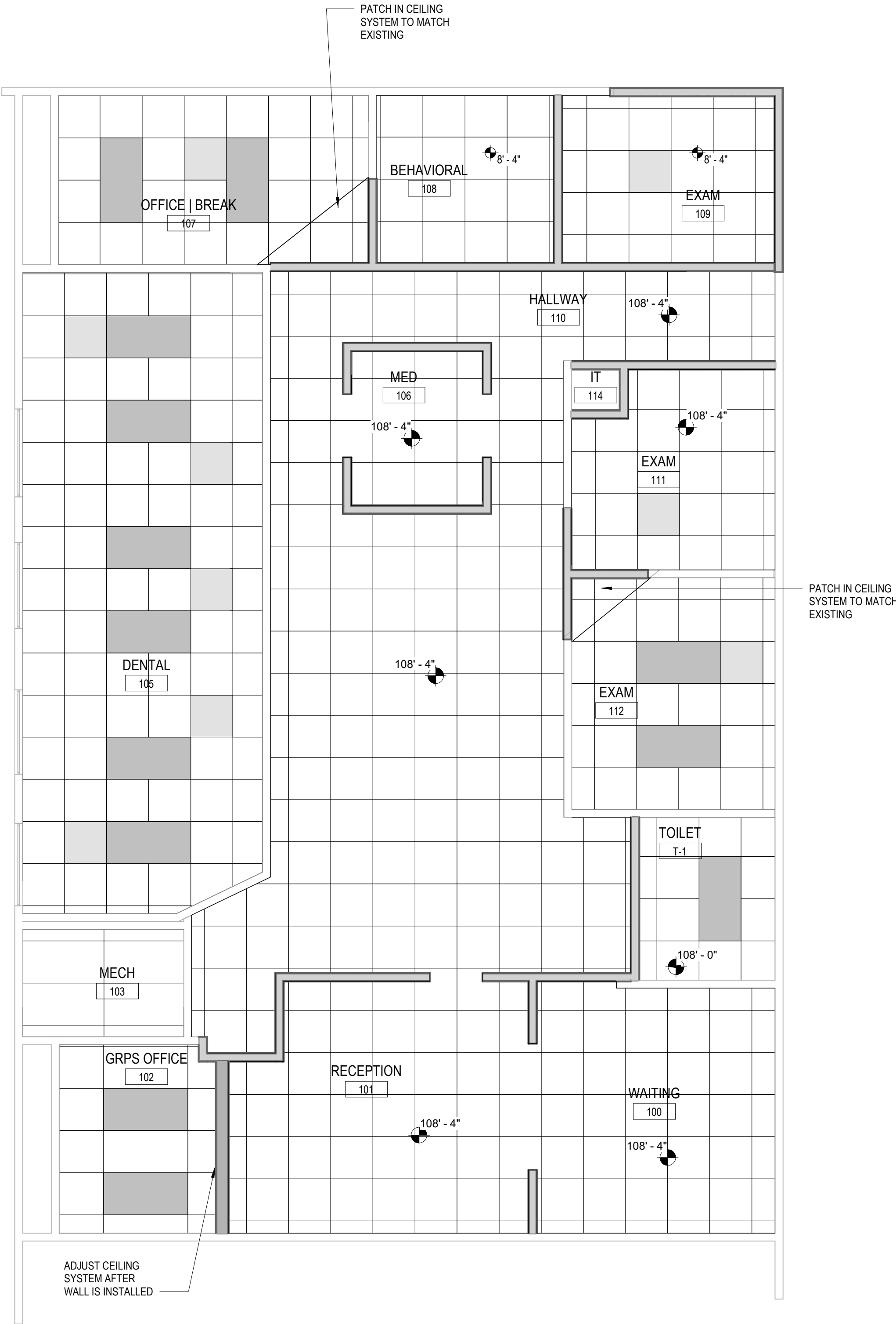
- GYPSUM BOARD
- 2X2 ACOUSTIC CEILING PANEL
- EXISTING 2X2 ACOUSTIC CEILING PANEL
- EXISTING 2X4 ACOUSTIC CEILING PANEL
- EXISTING GYPSUM BOARD
- 8'-0"

CEILING HEIGHT INDICATOR
- CJ

PLASTER OR GYPSUM WALL BOARD CONTROL JOINT
- CEILING ACCESS PANEL OR ROOF HATCH
- RECESSED ROUND LIGHT FIXTURE  
(EMERGENCY FIXTURES SHADED)
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- RADIANT PANEL
- FIRE EXIT SIGN LOCATION
- S

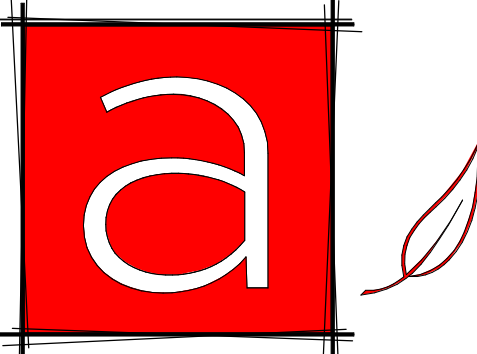
SPEAKER LOCATION  
(SEE ELECTRICAL COMMUNICATIONS)
- C

CAMERA LOCATION  
(SEE ELECTRICAL COMMUNICATIONS)
- CEILING MOUNTED PROJECTOR



FIRST FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"



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REVISIONS

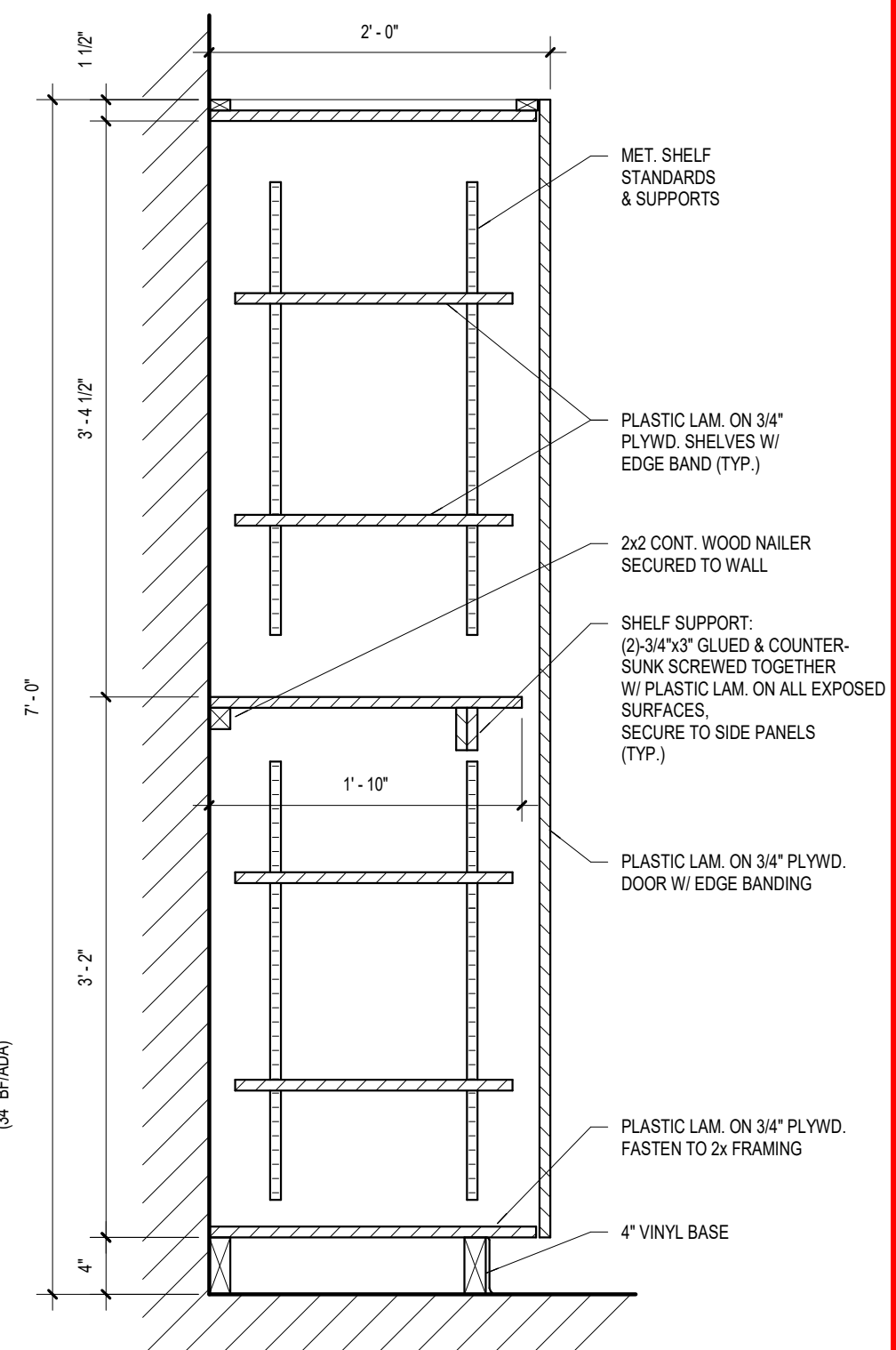
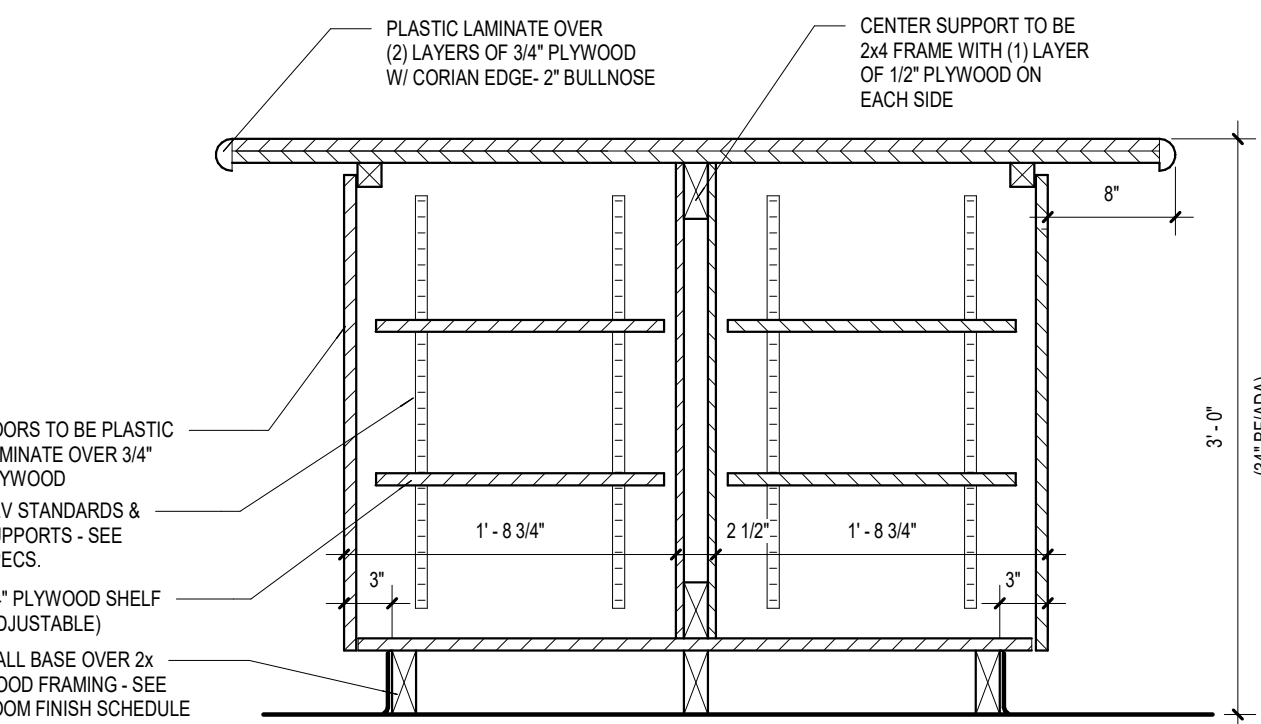
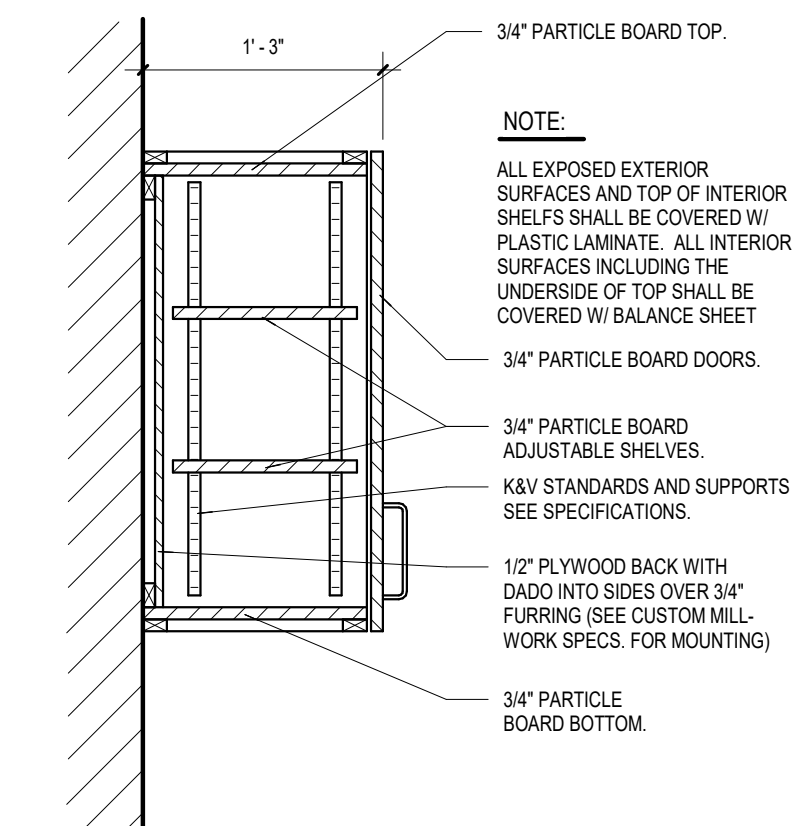
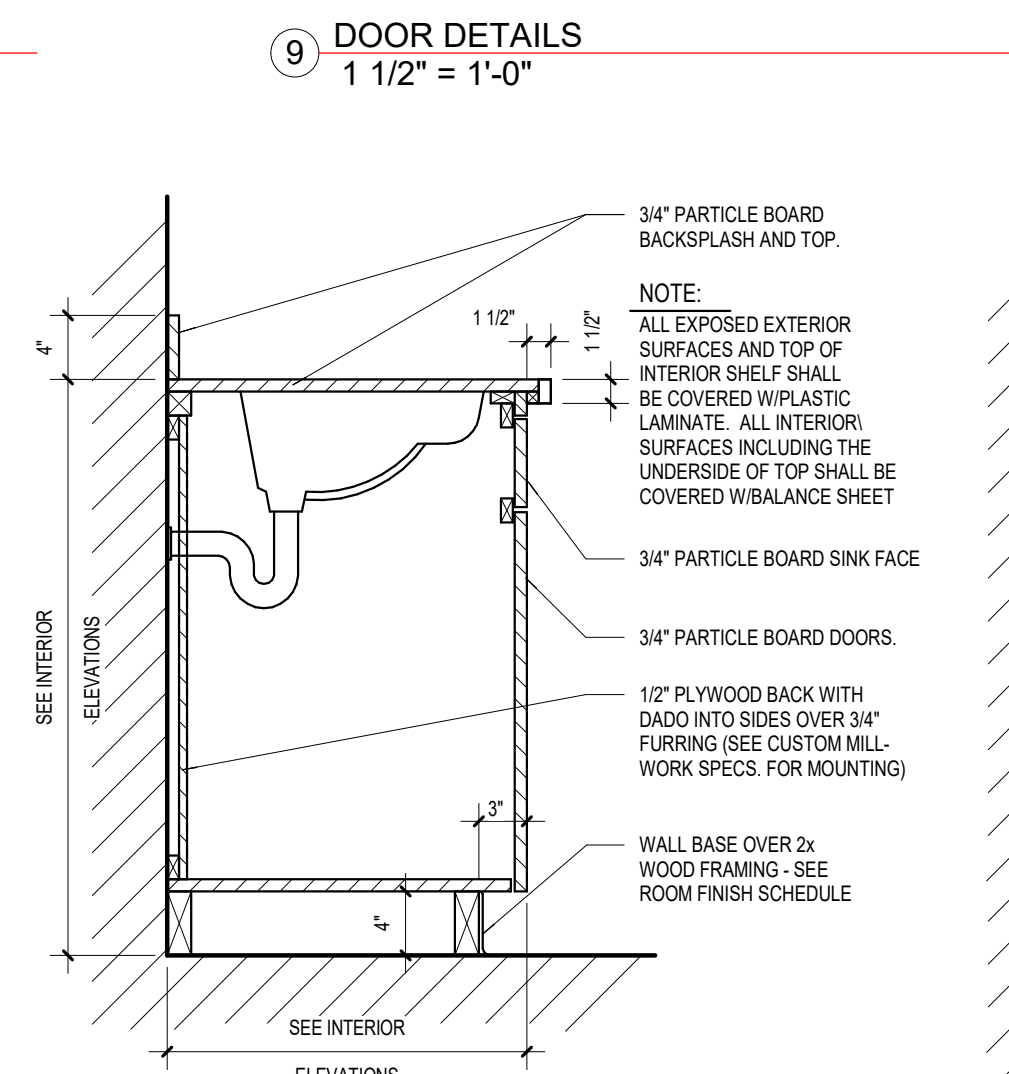
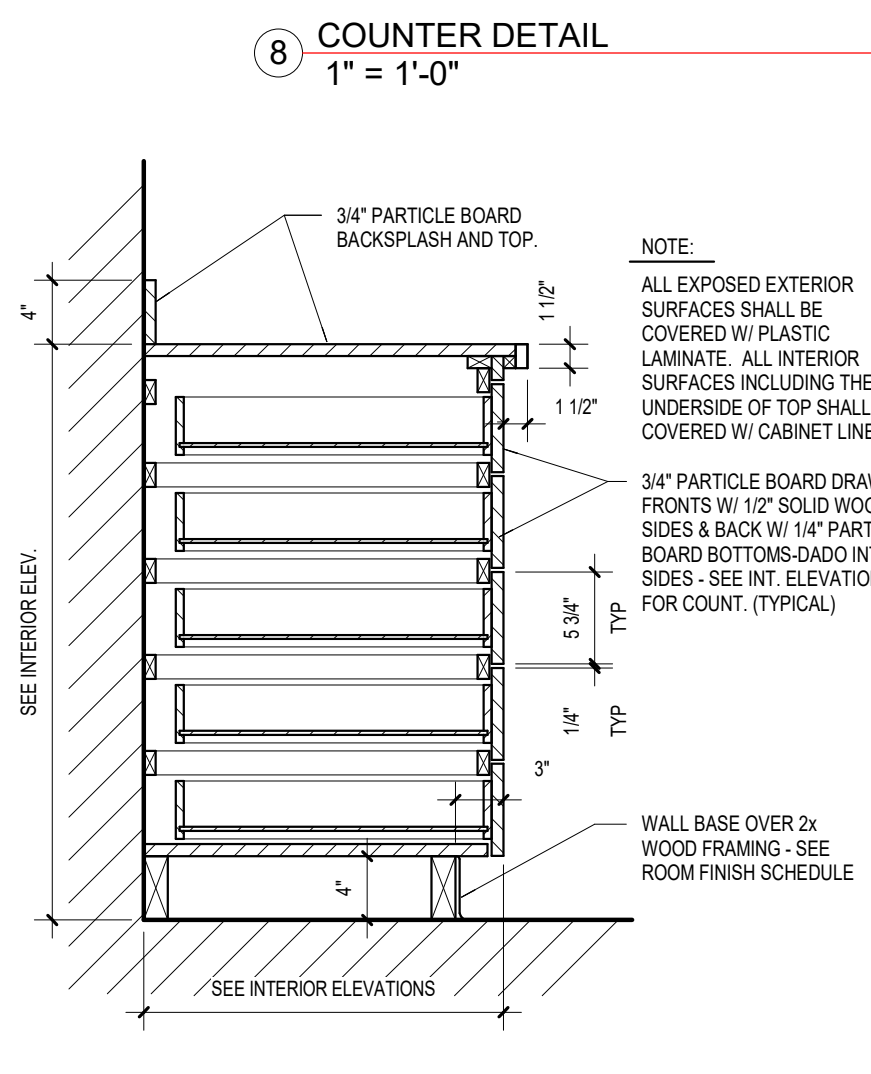
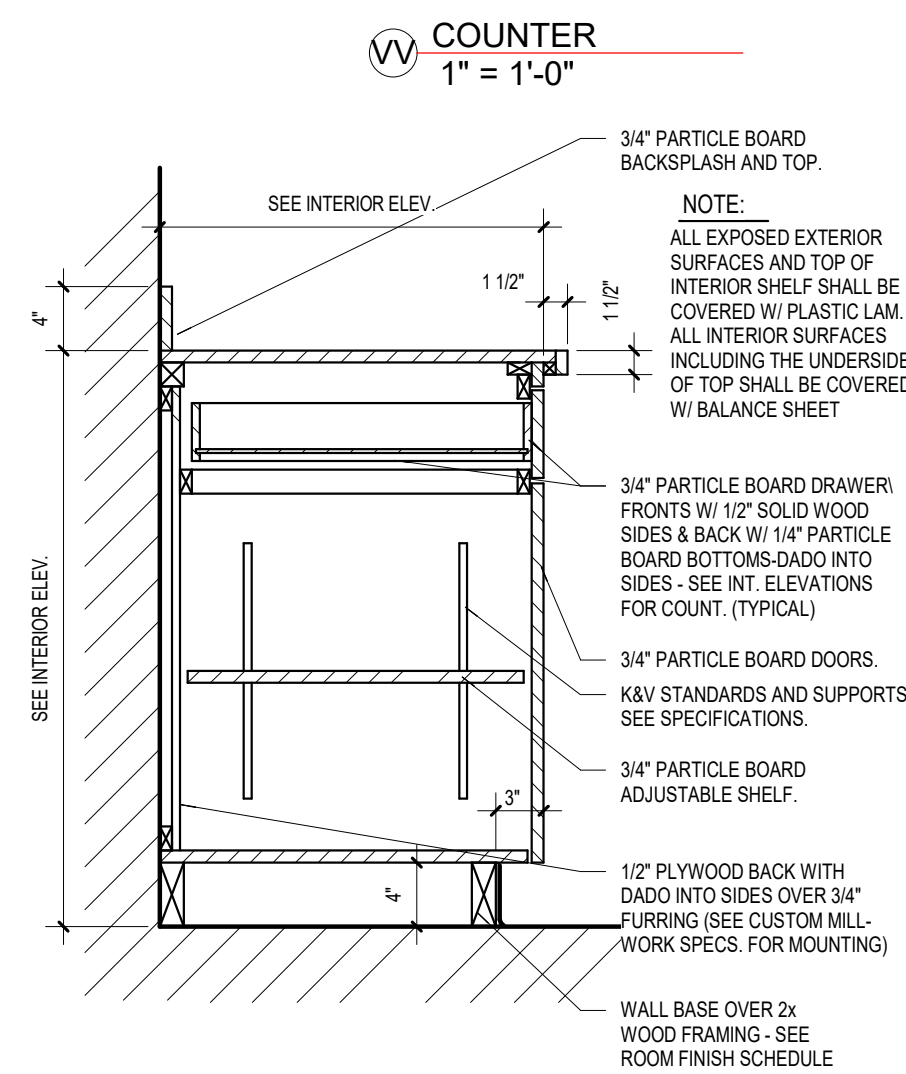
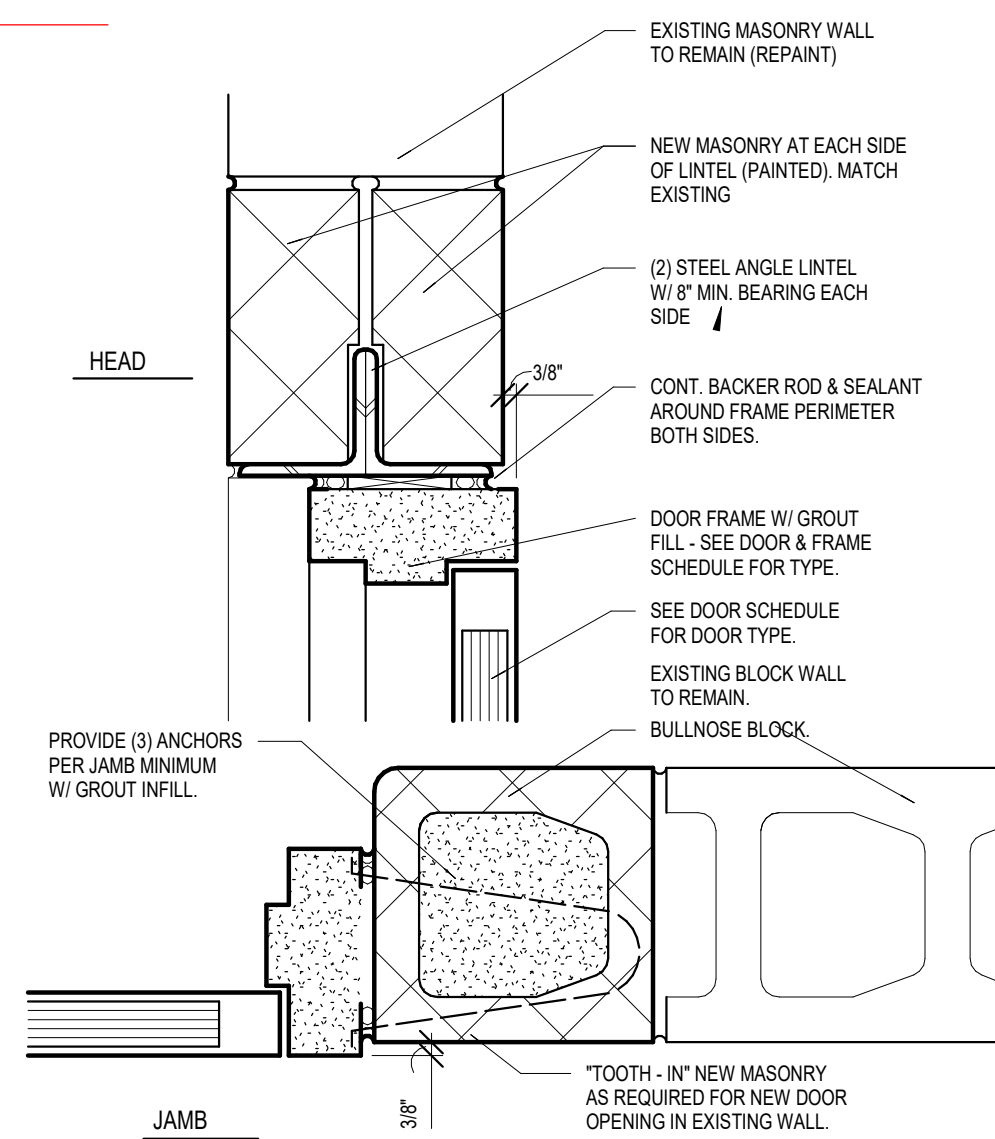
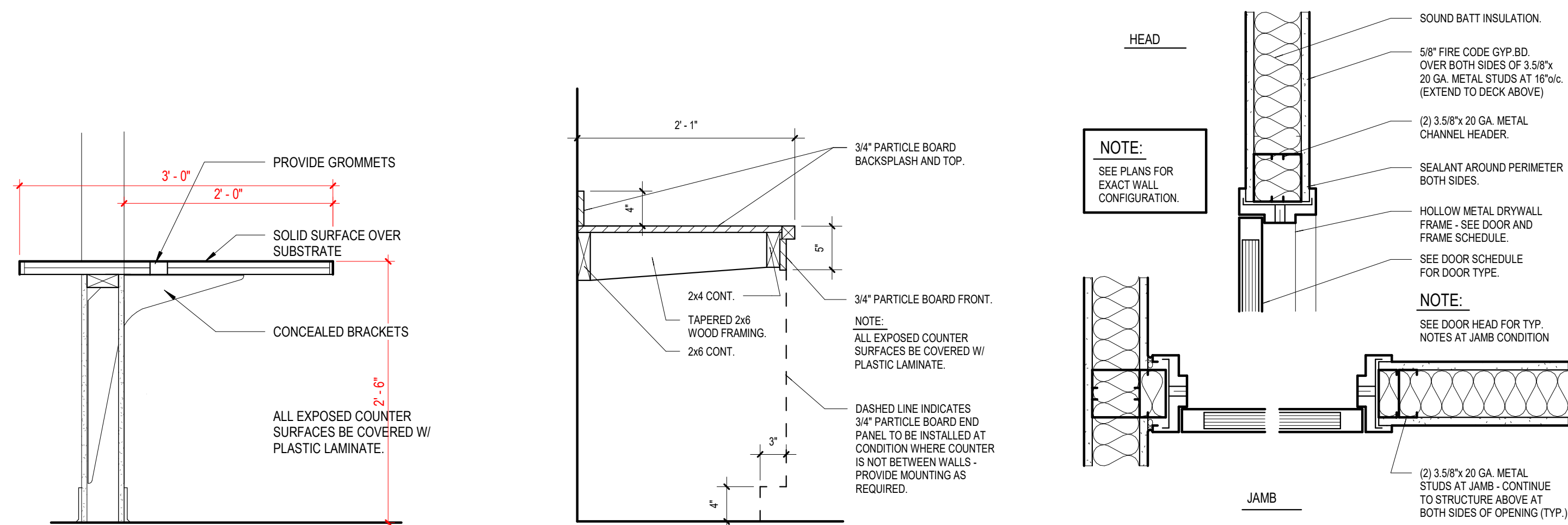
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FIRST FLOOR  
REFLECTED CEILING  
PLAN

SCALE :  
As indicated

A-2

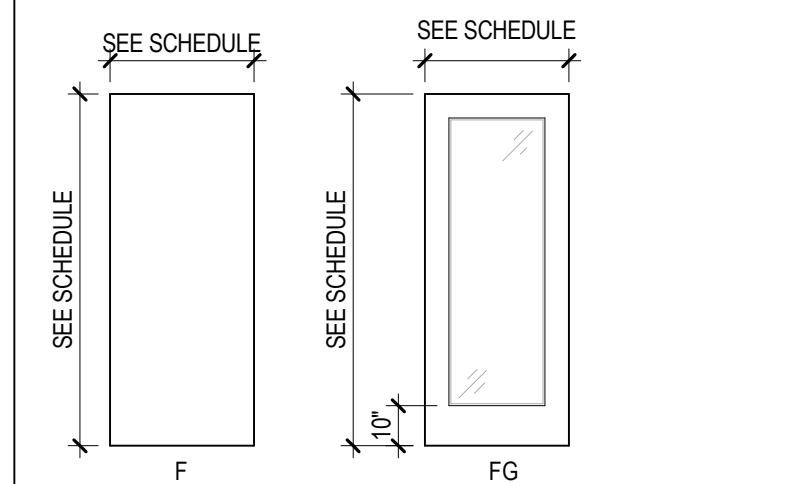




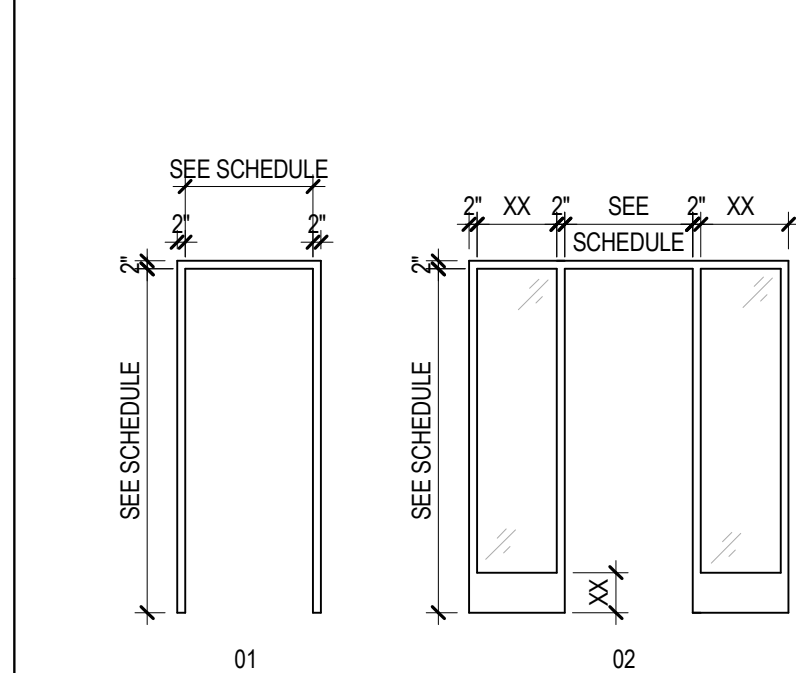
## DOOR SCHEDULE

| Mark        | DOOR  |        |      |          | FRAME |          |        | HDW | NOTES |
|-------------|-------|--------|------|----------|-------|----------|--------|-----|-------|
|             | WIDTH | HEIGHT | TYPE | MATERIAL | TYPE  | MATERIAL | RATING |     |       |
| FIRST FLOOR |       |        |      |          |       |          |        |     |       |
| 100A        | 3'-0" | 7'-0"  | F    | WD       | S     | HM       |        | 06  |       |
| 100B        | 3'-0" | 7'-0"  | FG   | WD       | S     | HM       |        | 05  |       |
| 101         | 3'-0" | 7'-0"  | FG   | WD       | S     | HM       |        | 02  |       |
| 102         | 3'-0" | 7'-0"  | FG   | HM       | S     | HM       |        | 09  |       |
| 107         | 3'-0" | 7'-0"  | FG   | WD       | S     | HM       |        | 02  |       |
| 108         | 3'-0" | 7'-0"  | F    | WD       | S     | HM       |        | 03  |       |
| 109         | 3'-0" | 7'-0"  | F    | WD       | S     | HM       |        | 01  |       |
| 110         | 3'-0" | 7'-0"  | FG   | WD       | S     | HM       |        | 07  |       |
| 111         | 3'-0" | 7'-0"  | F    | WD       | S     | HM       |        | 01  |       |
| 114         | 2'-0" | 7'-0"  | F    | HM       | S     | HM       |        | 08  |       |
| T-1         | 3'-0" | 7'-0"  | F    | WD       | S     | HM       |        | 04  |       |

## DOOR TYPES



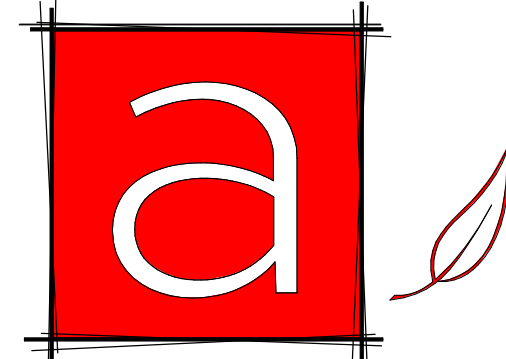
## FRAME TYPES



# DOOR SCHEDULE, DETAILS, AND ELEVATIONS

SCALE :  
As indicated

**A-3**



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**p:** 616.843.1002  
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UNION HS HEALTH CENTER RENOVATIONS  
**GRAND RAPIDS PUBLIC  
SCHOOLS**

1800 TREMONT BLVD NW, GRAND RAPIDS MI 49504

PROJECT NO. 1342  
ISSUANCES

|             |                  |
|-------------|------------------|
| 2 JUNE 2025 | BIDS AND PERMITS |
|             |                  |

## REVISIONS

| NO. | DATE | DESCRIPTION |
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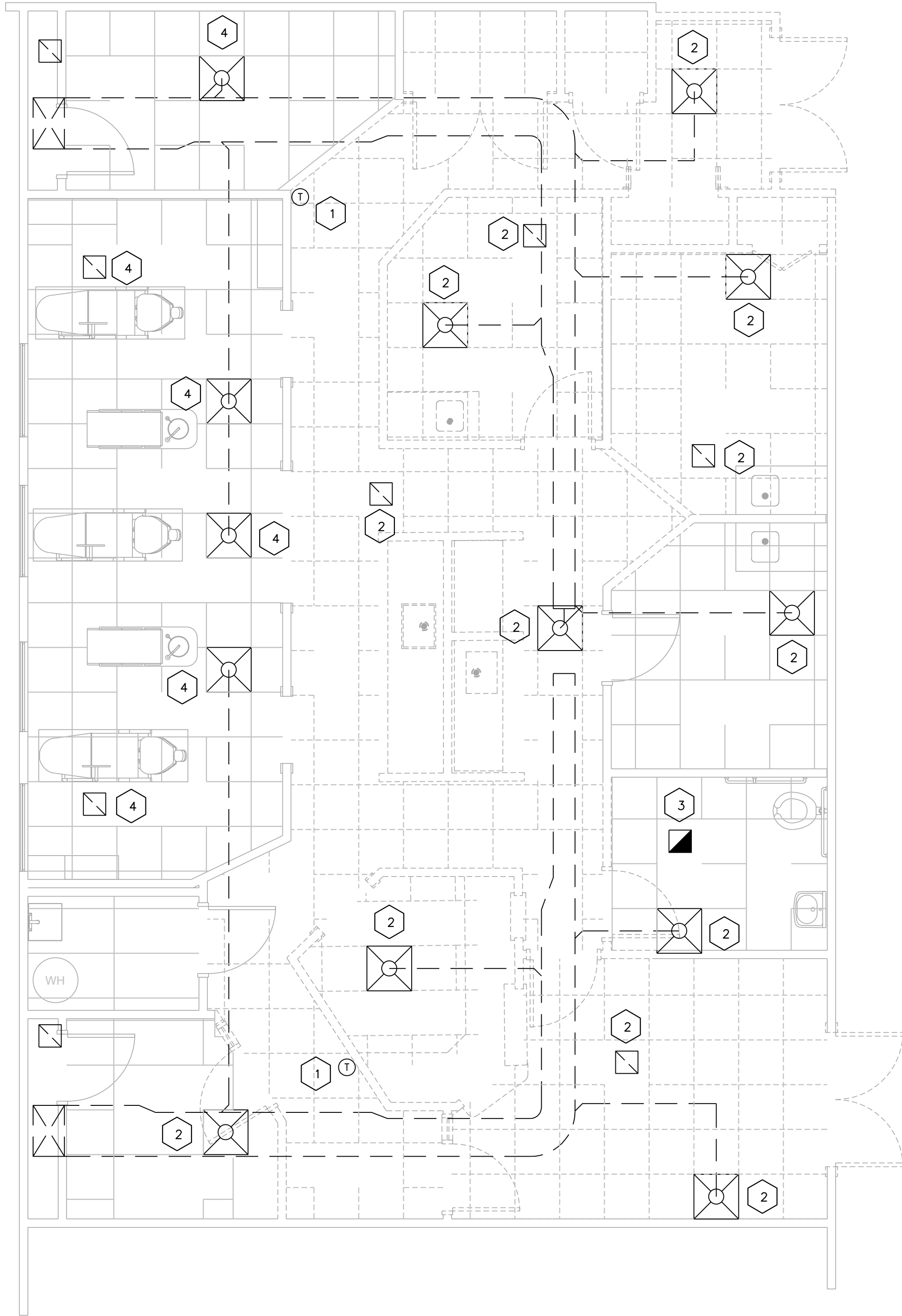




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ACCORDING TO CODE



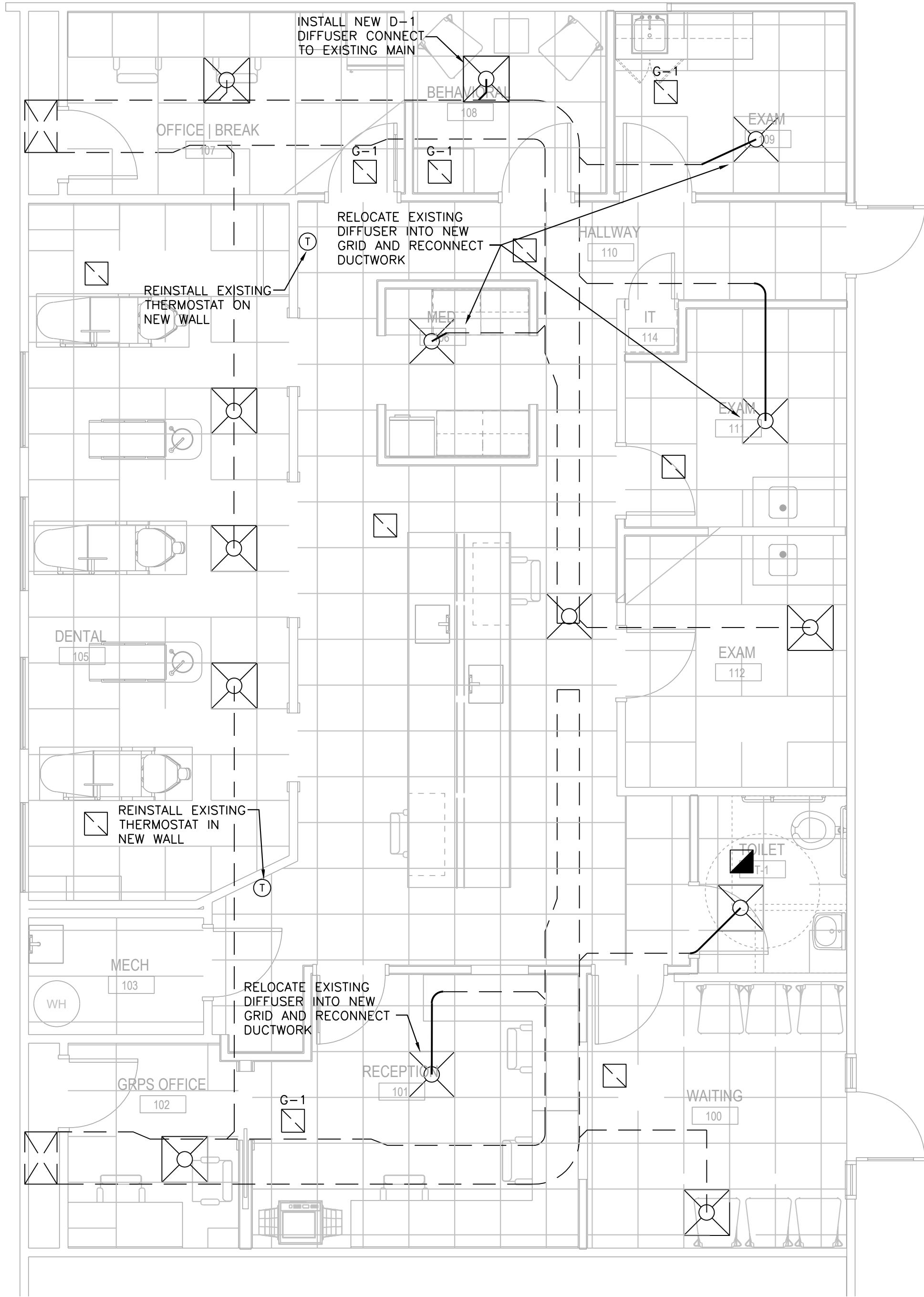
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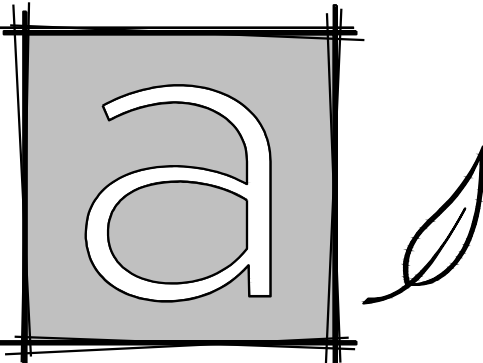
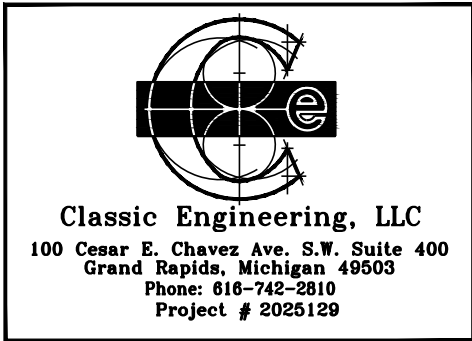
**FIRST FLOOR DEMOLITION PLAN - MECHANICAL**  
SCALE: 1/4" = 1'-0"

| GRILLE, REGISTER AND DIFFUSER SCHEDULE |                        |       |               |           |         |
|--|------------------------|-------|---------------|-----------|---------|
| MARK                                   | SERVICE                | MODEL | VOLUME DAMPER | FINISH    | REMARKS |
| D-1                                    | SUPPLY DIFFUSER        | SMD   | ----          | WHITE     | ①       |
| G-1                                    | CEILING EGGRATE RETURN | 80    | ----          | OFF-WHITE |         |
|  |                        |       |               |           | ①       |

① BASED ON PRICE.



**FIRST FLOOR PLAN - MECHANICAL**  
SCALE: 1/4" = 1'-0"



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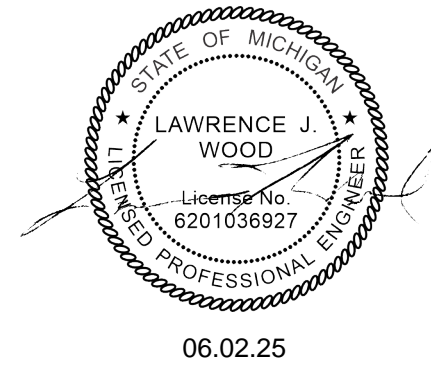
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| 2 JUNE 2025 | BIDS AND PERMITS |
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REVISIONS  
NO. DATE DESCRIPTION

**FIRST FLOOR AND DEMOLITION PLANS**

SCALE: As indicated

**M-1**





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| ELECTRICAL SYMBOL LEGEND |  |               |
|--------------------------|--|---------------|
| SYMBOL                   | DESCRIPTION  | MTG. HT. TO ⌀ |
| S S3                     | SINGLE POLE OR 3-WAY SWITCH- SPECIFICATION GRADE   | 46"           |
| S4                       | FOUR WAY SWITCH-SPEC. GRADE  | 46"           |
| SK                       | KEY OPERATED SWITCH-SPEC. GRADE  | 46"           |
| SD                       | DIMMER SWITCH  | 46"           |
| SIR                      | IR SWITCH  | 46"           |
| SIRD                     | IR SWITCH DIMMABLE   | 46"           |
| SP                       | SWITCH WITH PILOT LIGHT  | 46"           |
| SM                       | MANUAL MOTOR STARTER SWITCH  | 46"           |
| OS                       | OCCUPANCY SENSOR   | ---           |
| PC                       | PHOTO CELL   | ---           |
| CS                       | CONTROL STATION  | 46"           |
| DS                       | DAYLIGHT SENSOR  | ---           |
| C                        | SPLIT WIRED RECEPTACLE<br>C- DENOTES CONTROLLED VIA RELAY OR OCC SENSOR  | 18"           |
| WR                       | WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF WHILE IN USE COVER                                  | 18"           |
| ⌀                        | DUPLEX OUTLET-SPEC. GRADE<br>CIRCLE AROUND SYMBOL= CEILING MOUNTED   | 18"           |
| ⌀                        | ⌀ DUPLEX OUTLET-SPEC. GRADE<br>CIRCLE AROUND SYMBOL= CEILING MOUNTED   | 18"           |
| ⌀                        | SPECIAL SINGLE RECEPTACLE  | 18"           |
| ⌀                        | SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS   | AS NOTED      |
| ▽                        | DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER, 1-1/4"C. UP WALL TO CLG. SPACE<br>CIRCLE AROUND SYMBOL= CEILING MOUNTED | 18"           |
| ▽                        | TV OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER, 1-1/4"C. UP WALL TO CLG. SPACE<br>CIRCLE AROUND SYMBOL= CEILING MOUNTED   | 18"           |
| ▽                        | TELEPHONE OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER, 1-1/4"C. UP WALL TO CLG. SPACE                                     | 18"           |
| ▽                        | TELEPHONE/DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER, 1-1/4"C. UP WALL TO CLG. SPACE                                | 18"           |
| △WN                      |  | ---           |
| ⊠                        | FLOOR BOX- 2 RECEPT, 2 DATA, THOMAS & BETTS-# 665-SC<br>1-1/4"C. TO FLOORBOX FOR DATA                                  | ---           |
| ⊠                        | FLOOR BOX- 1 RECEPT, 1 DATA, THOMAS & BETTS-# 664-SC<br>1-1/4"C. TO FLOORBOX FOR DATA                                  | ---           |
| TV                       | JUNCTION BOX - HUBBELL NSAV82M WITH RECEPTACLE KIT HUBBELL NSOKP, PROVIDE CONNECTOR PLATE FOR AV                       | AS NOTED      |
| ⊙                        | JUNCTION BOX -4" SQ. BOX W/ 2 GANG RAISED COVER, 1"C. UP WALL TO CLG. SPACE UNLESS OTHERWISE NOTED                     | AS NOTED      |
| ⊙                        | POWER POLE - SEE DRAWING FOR POWER - POWER/DATA SPECIFICATIONS   | ---           |
| ⊠                        | ELECTRIC UTILITY METER   | ---           |
| ⊠                        | FUSED DISCONNECT SWITCH- FDS-HEAVY DUTY  | 46"           |
| ⊠                        | NON-FUSED DISCONNECT SWITCH- NFDS-HEAVY DUTY   | 46"           |
| ⊠                        | SW AND PLUG/FUSE HOLDER- BUSSMANN "SSU" & FUSE/STAT FUSE   | AT EQUIP.     |
| ⊠                        | MAGNETIC MOTOR STARTER-MS  | 46"           |
| ⊠                        | COMBINATION MAG. STARTER/ FUSED DISC. SWITCH - CS/FDS  | 46"           |
| ⊠                        | COMBINATION MAG. STARTER/NON-FUSED DISC. SWITCH - CS/NFDS  | 46"           |
| VFD                      | VARIABLE FREQUENCY DRIVE   | ---           |
| ⊠                        | SINGLE PHASE ELECTRIC MOTOR  | ---           |
| ⊠                        | THREE PHASE ELECTRIC MOTOR   | ---           |
| ⊠                        | SURFACE OR FLUSH MTD. BRANCH CIRCUIT PANELBOARD  | 72" TO TOP    |
| ⊠                        | TRANSFORMER  | ---           |
| ⊠                        | PUSH BUTTON  | 46"           |
| ⊠                        | THERMOSTAT, E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2"C. TO ACCESSIBLE CEILING SPACE                                     | 46"           |
| ⊠                        | HUMIDISTAT, E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2"C. TO ACCESSIBLE CEILING SPACE                                     | 46"           |
| ⊠                        | RECESSED DOWNLIGHT LUMINAIRE   | ---           |
| ⊠                        | RECESSED WALLWASH LUMINAIRE  | ---           |
| ⊠                        | SURFACE LUMINAIRE  | ---           |
| ⊠                        | PENDANT LUMINAIRE  | ---           |
| ⊠                        | WALL MOUNTED LUMINAIRE   | ---           |
| ⊠                        | SITE LIGHTING LUMINAIRE  | ---           |
| ⊠                        | NIGHT LIGHT  | ---           |
| ⊠                        | STRIP LUMINAIRE  | ---           |
| ⊠                        | LED ACCENT/UNDER CABINET LUMINAIRE   | ---           |
| ⊠                        | RECESSED LUMINAIRE 2'x4' OR 2'x2'  | ---           |
| ⊠                        | SURFACE LUMINAIRE 2'x4' OR 2'x2'   | ---           |
| ⊠                        | TRACK LIGHTING LUMINAIRE   | ---           |
| ⊠                        | PARTIALLY SHADED LUMINAIRE OR WITH "E" SUFFIX ARE EMERGENCY  | ---           |
| ⊠                        | EXIT SIGN - WALL MOUNTED OR CEILING MOUNTED<br>ARROWS INDICATE PATH OF EGRESS  | ---           |
| ⊠                        | REMOTE EMERGENCY HEAD  | ---           |
| ⊠                        | BATTERY EMERGENCY LUMINAIRE  | ---           |

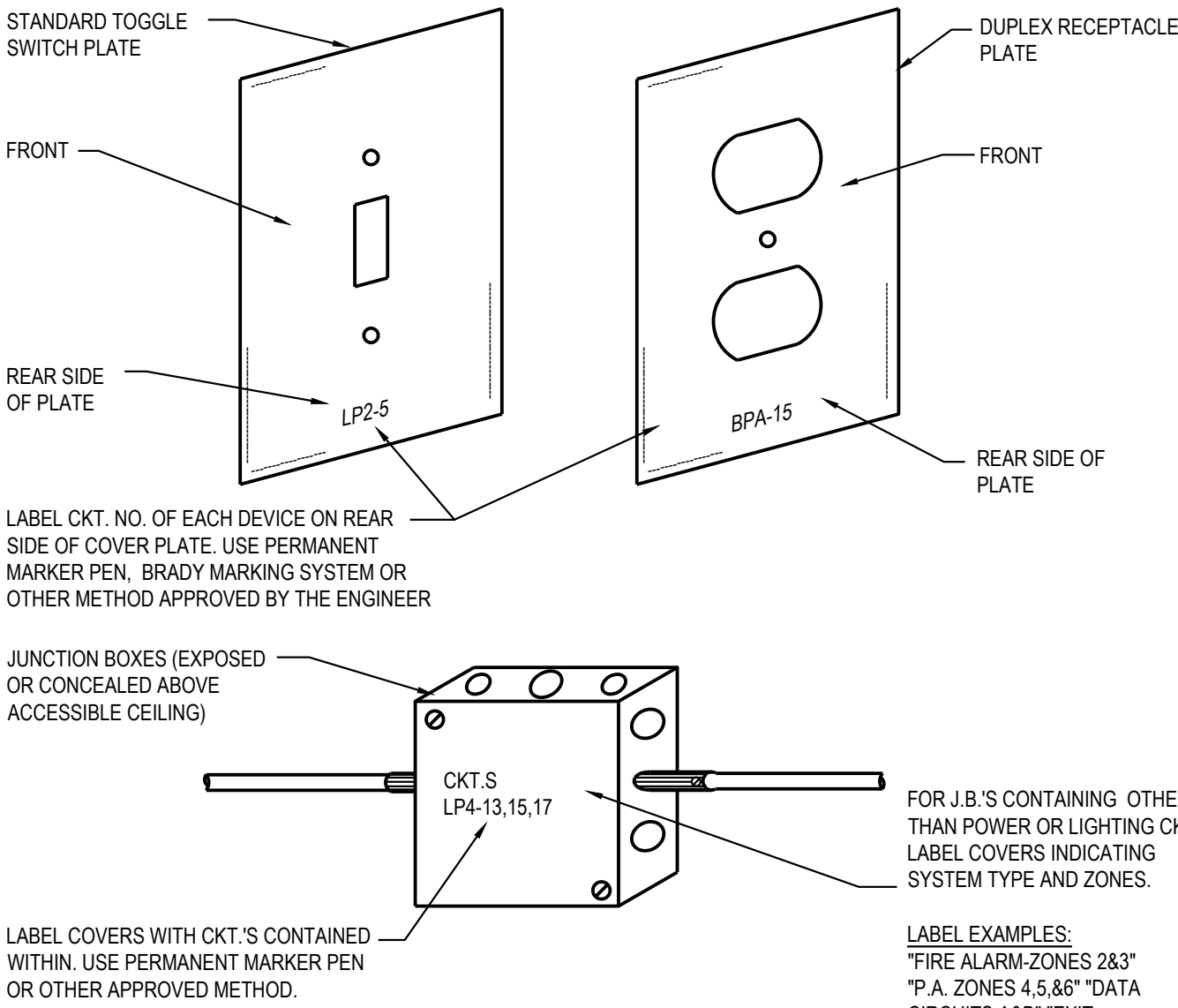
SYMBOL NOTES:  
1. "AC" DENOTES ABOVE COUNTER. COORDINATE HEIGHT WITH ARCHITECT.  
2. "H" DENOTES HORIZONTAL MOUNTING OF DEVICE.  
3. "B" DENOTES MOUNTED IN BASE  
4. "F" DENOTES MOUNTED IN FACE OF CABINETS.

| SYSTEMS SYMBOL LEGEND |   |                       |
|-----------------------|---|-----------------------|
| SYMBOL                | DESCRIPTION   | MTG. HT. TO ⌀         |
| F                     | FIRE ALARM PULL STATION   | 46"                   |
| WP                    | FIRE ALARM HORN/STROBE LIGHT<br>(WP-DENOTES WEATHER PROOF)                                      | 80"                   |
| ?                     | AREA SMOKE DETECTOR-PHOTOELECTRIC   | ---                   |
| ⊠                     | VISUAL ONLY ALARM   | 80"                   |
| ⊠                     | AUDIO ONLY ALARM  | ---                   |
| ⊠                     | CEILING SPEAKER   | ---                   |
| ⊠                     | SPEAKER/STROBE LIGHT  | ---                   |
| CO                    | SMOKE/HORN BASE<br>CO-DENOTES COMBO CARBON MONOXIDE/SMOKE                                       | ---                   |
| DH                    | MAGNETIC DOOR HOLD OPEN   | ---                   |
| CO                    | CARBON MONOXIDE SENSOR, E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2"C. TO ACCESSIBLE CEILING SPACE. | ---                   |
| D                     | DUCT SMOKE DETECTOR   | ---                   |
| H                     | HEAT DETECTOR   | ---                   |
| TS                    | O.S.&Y TAMPER SWITCH  | ---                   |
| FS                    | WATER FLOW SWITCH   | ---                   |
| RT                    | REMOTE ALARM KEY TEST SWITCH  | 46"                   |
| CR                    | FIRE ALARM CONTROL RELAY  | ---                   |
| BD                    | BEAM DETECTOR   | ---                   |
| FSD                   | FIRE/SMOKE DAMPER   | ---                   |
| FACP                  | FIRE ALARM CONTROL PANEL  | ---                   |
| FAA                   | FIRE ALARM ANNUNCIATOR PANEL  | ---                   |
| S                     | CEILING SPEAKER   | ---                   |
| ⊠                     | CARD READER   | 46"                   |
| ⊠                     | SECURITY DOOR CONTACT   | AT DOOR HEAD          |
| ⊠                     | SECURITY INTERCOM   | 46"                   |
| ⊠                     | SECURITY CAMERA - "W" DENOTES WALL MOUNTED<br>CHEVRON INDICATES AIM LINE                        | TYPICALLY CLG MOUNTED |
| ⊠                     | SECURITY DOOR REQUEST TO EXIT   | AT DOOR HEAD          |

F.A. NOTES:  
1. E.C. TO PROVIDE CONNECTION TO ALL DUCT DETECTORS WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR SCHEDULES, REVIEWING ALL CFM REQUIREMENTS. PROVIDE DUCT DETECTORS IF NOT NOTED TO BE PROVIDED BY M.C.  
2. E.C. TO PROVIDE CONNECTIONS TO ALL FLOW AND TAMPER SWITCHES WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH FIRE PROTECTION DRAWINGS AND/OR DESIGN BUILD CONTRACTOR.  
3. E.C. TO PROVIDE EMERGENCY POWER TO FIRE ALARM BOOSTER POWER SUPPLIES WHEN EMERGENCY POWER SYSTEM IS AVAILABLE.

| LIGHT FIXTURE LEGEND |                                    |                                    |   |                |         |                          |         |  |
|----------------------|------------------------------------|------------------------------------|---|----------------|---------|--------------------------|---------|--|
| FIXTURE TYPE         | DESCRIPTION                        | MANU.                              | CATALOG PART#   | FINISH         | VOLTAGE | LAMPS                    | Wattage | REMARKS                                    |
| A                    | 2'x4' LED FLAT PANEL SURFACE MOUNT | ACUTY METALLUX COLUMBIA            | EPANL LED FLAT PANEL 2'x4 4000LM 80CRI 35K MIN10 2T DGA24 | WHITE          | 120     | LED 35K 4000LM           | 30W     | WITH DRYWALL ADAPTER TRIM<br>0-10V DIMMING |
| B                    | 2'x2' LED FLAT PANEL RECESSED      | ACUTY METALLUX COLUMBIA            | EPANL LED FLAT PANEL 2'x2 3400LM 80CRI 35K MIN10 2T DGA22 | WHITE          | 120     | LED 35K 3400LM           | 38W     | 0-10V DIMMING<br>WITH DRYWALL ADAPTER TRIM |
| C                    | 4" RECESSED LED                    | ACUTY METALLUX COLUMBIA            | LDN4 35/07L04 AR LSS TRW 120 G210                         | CLEAR SPECULAR | 120     | LED 35K 750 LM           | 12W     | 0-10V DIMMING                              |
| D                    | 4" RECESSED LED                    | ACUTY METALLUX COLUMBIA            | LDN4 35/15L04 AR LSS TRW 120 G210                         | CLEAR SPECULAR | 120     | LED 35K 1500LM           | 20W     | 0-10V DIMMING                              |
| UC2                  | 2'x2" UNDERCABINET LIGHT           | ACUTY METALLUX COLUMBIA            | UCES LED 24IN 5WWS 90CRI WH M6                            | WHITE          | 120     | LED 35K 8010811928 LM    | 17W     | 0-10V DIMMING<br>WITH DRYWALL ADAPTER TRIM |
| UC3                  | 36" UNDERCABINET LIGHT             | ACUTY METALLUX COLUMBIA            | UCES LED 36IN 90 CRI WH M6                                | WHITE SPECULAR | 120     | LED 35K 1152128711347 LM | 21W     | 0-10V DIMMING                              |
| EM1                  | EMERGENCY                          | LITHONIA ISOUTE WILLIAMS DUAL LITE | ELM4L   | WHITE          | NA      | LED                      |         | MOUNT AT 7'-6" AFF                         |

GENERAL LIGHT FIXTURE SCHEDULE NOTES:



A-1  
E1.00  
N.T.S.

**ELECTRICAL IDENTIFICATION**

## ELECTRICAL SPECIFICATIONS

### 26-0500 GENERAL PROVISIONS

- FURNISH AND INSTALL FIRST-CLASS WORKING SYSTEMS, TESTED AND READY FOR OPERATION, COMPLETE WITH LABOR AND MATERIALS (U.L. APPROVED COMMERCIAL GRADE). CONFORM TO DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. USE PROPER NEMA RATED EQUIPMENT (i.e. "3R" WEATHERPROOF, "1" GENERAL DUTY, ETC.)
- COORDINATE WITH THE DRAWINGS AND SPECIFICATIONS OF THE OTHER TRADES AND WITH THE OWNER.
- FIELD VERIFICATION OF ALL DIMENSIONS ARE REQUIRED, EXACT LOCATIONS, DISTANCES, AND LEVELS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS.
- COMPLY WITH THE NATIONAL ELECTRICAL 2023 CODE, PLUS LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK; ANY FEES IN CONNECTION THEREWITH ARE TO BE PAID BY ELECTRICAL CONTRACTOR.
- COMPLETE REQUIRED DEMOLITION, MAINTAINING OPERATION OF EXISTING TO REMAIN (COORDINATE WITH GC REGARDING ANY PHASING OF THE PROJECT) REWIRE EXISTING CIRCUITS IF REQUIRED.
- WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

### TESTING

- WORK REQUIRED UNDER THIS HEADING SHALL BE BY THE ELECTRICAL CONTRACTOR (OR AS NOTED) AND INCLUDES ALL SUPERVISION, LABOR, MATERIALS, INSTRUMENTATION AND EQUIPMENT NECESSARY TO EFFECTIVELY TEST, MEASURE AND VERIFY THE PERFORMANCE OF THE ELECTRICAL EQUIPMENT SYSTEMS.

### 26-0 529, 26-0533, 260534 RACEWAY, BOXES, AND FITTINGS

- ALL WIRING SHALL BE RUN IN CONCEALED EMT (THINWALL) CONDUIT IN THE FINISHED AREAS OF THE BUILDING. CONDUIT MAY BE EXPOSED IN EQUIPMENT ROOMS OR OVERHEAD IN ROOMS WITHOUT CEILINGS. CONDUITS EXPOSED TO WEATHER TO BE RGC (RIGID GALVANIZED CONDUIT), MC CABLE ALLOWED IN AREAS ALLOWED PER NATIONAL ELECTRICAL CODE AND NOT SUBJECT TO DAMAGE.
- HORIZONTAL AND VERTICAL CONDUIT RUNS MAY BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, CLAMP-BACKS OR OTHER APPROVED DEVICES.
- CONDUITS SHALL NOT BE RUN IN NOR SUPPORTED FROM DUCTWORK.

### 26-0219 CONDUCTORS

ALL CONDUCTORS SHALL BE NEW. ALL CONDUCTORS FOR POWER AND LIGHTING SYSTEMS WIRING SHALL BE 98% CONDUCTIVITY COPPER TYPE THHN OR THHW. ALUMINUM IS TO BE IS PERMITTED FOR SERVICE ENTRANCE AND PANEL FEEDS. BRANCH CIRCUIT WIRING SHALL BE COPPER.

### 26-2736 WIRING DEVICES

- CONVENIENCE OUTLETS SHALL BE SPECIFICATION GRADE, RATED AT 20 AMPERE, GROUNDING TYPE, 125 VOLT, AND BEAR U.L. LABEL OF APPROVAL. STAINLESS STEEL COVER PLATES. MANUFACTURERS: PASS AND SEYMOUR CATALOG 5251-1, OR EQUAL BY HUBBELL, AND LEVITON.
- ALL SWITCHES FOR LIGHTING SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERE, 120/277 VOLTS, PASS AND SEYMOUR CATALOG 20AC-1 OR EQUAL BY HUBBELL, AND LEVITON.

### 16350 GROUNDING

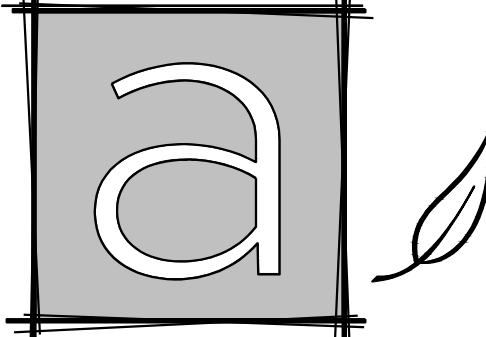
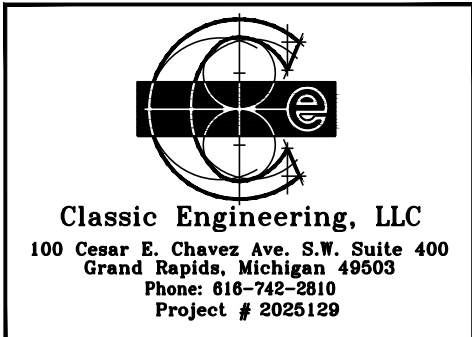
- INSTALL COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- INSTALL BONDING WIRE IN NONMETALLIC AND FLEXIBLE CONDUIT CONNECTED AT SOURCE END TO PANELBOARD EQUIPMENT GROUND BAR AND AT LOAD END TO ENCLOSURE.
- EXTEND COMPLETE BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. INCLUDE INSULATED GROUND FOR ALL EXTERIOR AS WELL AS TOILET CIRCUITS.

### 26-5113 LIGHTING

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL FIXTURES WITH LAMPS, AS SHOWN ON THE DRAWINGS AND AS LISTED IN THE FIXTURE LEGEND. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADEQUATE SUPPORTING FACILITIES FOR THE LIGHTING SYSTEM.
- WHERE RECESSED FIXTURES ARE INSTALLED IN CEILINGS FINISHED IN ACOUSTICAL TILE PATTERNS OR LAYOUTS, THE ELECTRICAL CONTRACTOR SHALL WORK IN COOPERATION WITH THE CEILING SUPPLIERS IN LOCATING AND FRAMING FIXTURES.
- EXIT LIGHT FIXTURES SHALL BE SUITABLE FOR WALL, CEILING FOR PENDANT MOUNTING AS INDICATED, WITH STENCIL FACES AND ONE-EIGHTH INCH THICK RED (OR GREEN PER ARCHITECT OR OWNER) ACRYLIC PANELS, WITH LED LAMPS AND BATTERY PACKS SHOWN IN THE LIGHTING FIXTURE LEGEND.
- EMERGENCY LIGHTING REQUIREMENTS SHALL BE INSTALLED TO SATISFY THE RESPECTIVE CODES, INCLUDING INTERNATIONAL BUILDING CODE (i.e. 1FC AVERAGE, .8 FC MINIMUM AND 40:1 RATIO OF MAX TO MIN). PHOTOMETRICS, NOT PROVIDED IN THE BID DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE FINAL BID PROPOSAL - BY EC, SUPPLIER OR ENGINEER.

### 26-2816 CONTROLS

- COMPLETE CONTROLS FOR LIGHTING AND MECHANICAL EQUIPMENT, AS NOTED ON THE DRAWINGS. ALL LIGHTING CONTROLS SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE.
- APPROVED MANUFACTURERS: ACUTY, COOPER, HUBBELL AND LEVITON.



architektura PLC  
PO Box 971  
Grand Haven, MI 49417  
p: 616.843.1002  
www.architekturaplclp.com

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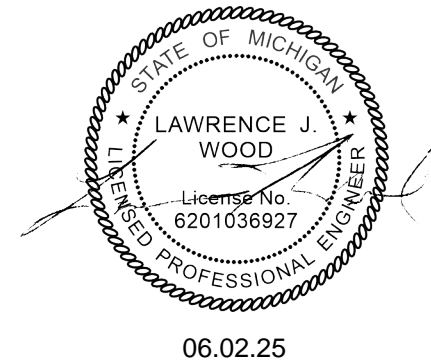
### REVISIONS

NO. DATE DESCRIPTION

DETAILS, SYMBOL  
LEGENDS AND  
SPECIFICATIONS

SCALE :  
As indicated

E1.00





P:\2025\2025129 GRPS Union HS Clinic\Working Drawings\2025129 E2.dwg, 6/2/2025 3:20:57 PM, mdelora  
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TYPICAL AMPERAGE/CONDUCTOR SIZES FOR ONE-LINE

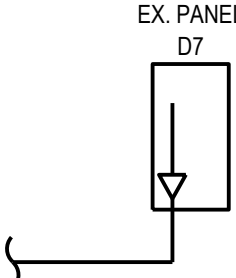
| SERVICE FEEDERS - (COPPER) |       |                          |
|----------------------------|-------|--------------------------|
| 1                          | 60A   | 4-#4+10G, 1-1/4" C       |
| 2                          | 100A  | 4-#1+8G, 1-1/2" C        |
| 3                          | 125A  | 4-#2/0+8G, 2" C          |
| 4                          | 150A  | 4-#3/0+8G, 2" C          |
| 5                          | 200A  | 4-#250kcmil, 2-1/2" C    |
| 6                          | 225A  | 4-#300kcmil, 3" C        |
| 7                          | 400A  | (2)4-#250kcmil, 2-1/2" C |
| 8                          | 600A  | (2)4-#500kcmil, 3" C     |
| 9                          | 800A  | (3)4-#400kcmil, 3-1/2" C |
| 10                         | 1200A | (4)4-#500kcmil, 3-1/2" C |
| 11                         | 1400A | (5)4-#500kcmil, 3-1/2" C |
| 12                         | 1600A | (6)4-#400kcmil, 3" C     |
| 13                         | 2000A | (7)4-#500kcmil, 3-1/2" C |
| 14                         | 2500A | (9)4-#500kcmil, 3-1/2" C |

| BRANCH FEEDERS - 3 WIRE (COPPER) |      |                   |
|----------------------------------|------|-------------------|
| 15                               | 30A  | 3-#10+10G, 3/4" C |
| 16                               | 40A  | 3-#8+10G, 3/4" C  |
| 17                               | 60A  | 3-#6+10G, 3/4" C  |
| 18                               | 80A  | 3-#4+8G, 3/4" C   |
| 19                               | 100A | 3-#3+8G, 1" C     |
| 20                               | 125A | 3-#1+8G, 1-1/2" C |
| 21                               | 200A | 3-#4/0+8G, 2" C   |
| 22                               | 225A | 3-#4/0+8G, 2" C   |

| BRANCH FEEDERS - 4 WIRE (COPPER) |       |                          |
|----------------------------------|-------|--------------------------|
| 23                               | 60A   | 4-#6+10G, 1" C           |
| 24                               | 100A  | 4-#3+8G, 1-1/4" C        |
| 25                               | 125A  | 4-#1+8G, 1-1/2" C        |
| 26                               | 150A  | 4-#1/0+8G, 1-1/2" C      |
| 27                               | 175A  | 4-#2/0+8G, 2" C          |
| 28                               | 200A  | 4-#4/0+8G, 2-1/2" C      |
| 29                               | 250A  | 4-#250kcmil+8G, 2-1/2" C |
| 30                               | 400A  | 4-#600kcmil+8G, 3-1/2" C |
| 31                               | 600A  | (2)4-#350kcmil+8G, 3" C  |
| 32                               | 800A  | (2)4-#600kcmil+10G, 4" C |
| 33                               | 1200A | (4)4-#350kcmil+30G, 3" C |

ONE-LINE DIAGRAM GENERAL NOTES

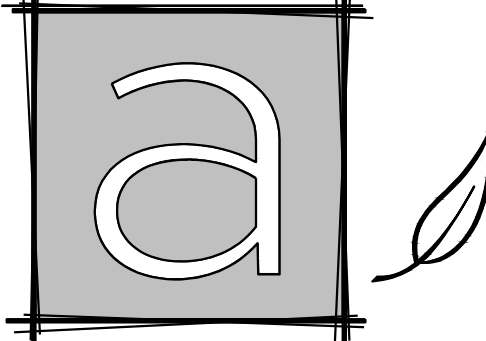
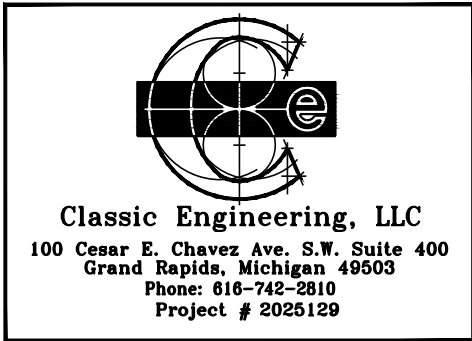
- REFER TO WIRE SIZING CHART. COPPER OR ALUMINUM MAY BE UTILIZED AT CONTRACTORS DISCRETION UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH TRADES ON SITE.
- PROVIDE HAZARD LABELS PER CODE MEETING ANSI Z535.4.
- VERIFY HVAC MOTOR CIRCUIT PROTECTION AND TEST THERMAL OVERLOAD PROTECTION ON HVAC MOTORS.



120/208V- 3Ø-4W ONE LINE  
NOT TO SCALE

| CONDUCTOR AND CONDUIT SIZING  |  |  |   |   |   |
|---|--|--|---|---|---|
| MAX. OCCUP.   | COPPER WIRE<br>(3) COND + G<br>DESCRIPTION | ALUMINUM WIRE<br>(3) COND + G<br>DESCRIPTION | COPPER WIRE<br>(4) COND + G (LINEAR LOADS)<br>DESCRIPTION | COPPER WIRE<br>(4) COND + G** (NON-LINEAR LOADS)<br>DESCRIPTION | ALUMINUM WIRE<br>(4) COND + G** (NON-LINEAR LOADS)<br>DESCRIPTION |
| 20  | 3#12, #12G, 1/2" C                         |  | 4#12, #12G, 1/2" C  | 4#12, #12G, 1/2" C  |   |
| 30  | 3#10, #10G, 3/4" C                         |  | 4#10, #10G, 1/2" C  | 4#8, #10G, 3/4" C   |   |
| 40  | 3#8, #10G, 3/4" C                          |  | 4#8, #10G, 3/4" C   | 4#8, #10G, 3/4" C   |   |
| 50  | 3#6, #10G, 3/4" C                          |  | 4#6, #10G, 3/4" C   | 4#6, #10G, 1" C   |   |
| 60  | 3#4, #10G, 1" C                            |  | 4#6, #10G, 1" C   | 4#4, #10G, 1 1/4" C   |   |
| 70  | 3#4, #8G, 1" C                             |  | 4#4, #8G, 1 1/4" C  | 4#3, #8G, 1 1/4" C  |   |
| 80  | 3#4, #8G, 1" C                             |  | 4#4, #8G, 1 1/4" C  | 4#3, #8G, 1 1/4" C  |   |
| 90  | 3#3, #8G, 1 1/4" C                         |  | 4#3, #8G, 1 1/4" C  | 4#2, #8G, 1 1/4" C  |   |
| 100   | 3#3, #8G, 1 1/4" C                         | 3-#1, #6G, 1 1/4" C                          | 4#3, #8G, 1 1/4" C  | 4#1, #8G, 1 1/2" C  | 4-2/0, #6G, 2 1/2" C  |
| 110   | 3#2, #6G, 1 1/4" C                         |  | 4#2, #6G, 1 1/4" C  | 4-1/0, #6G, 1 1/2" C  | 4-3/0, #4G, 2 1/2" C  |
| 125   | 3#1, #6G, 1 1/2" C                         |  | 4#1, #6G, 1 1/2" C  | 4-2/0, #6G, 2" C  | 4-3/0, #4G, 2 1/2" C  |
| 150   | 3-1/0, #6G, 1 1/2" C                       | 3-3/0, #4G, 2" C                             | 4-1/0, #6G, 1 1/2" C                                      | 4-3/0, #6G, 2" C  | 4-4/0, #4G, 2 1/2" C  |
| 175   | 3-2/0, #6G, 2" C                           |  | 4-2/0, #6G, 2" C  | 4-4/0, #6G, 2 1/2" C  | 4-300kcmil, #4G, 3" C   |
| 200   | 3-4/0, #4G, 2" C                           | 3-250kcmil, #2G, 2 1/2" C                    | 4-4/0, #4G, 2 1/2" C                                      | 4-250kcmil, #4G, 2 1/2" C                                       | 4-350kcmil, #4G, 3" C   |
| 225   | 3-4/0, #4G, 2" C                           | 3-300kcmil, #2G, 3" C                        | 4-4/0, #4G, 2 1/2" C                                      | 4-300kcmil, #4G, 3" C   | 4-500kcmil, #2G, 3 1/2" C   |
| 250   | 3-250kcmil, #4G, 2 1/2" C                  | 3-350kcmil, #2G, 3" C                        | 4-250kcmil, #4G, 2 1/2" C                                 | 4-350kcmil, #4G, 3" C   | 4-500kcmil, #2G, 3 1/2" C   |
| 300   | 3-350kcmil, #4G, 3" C                      | 3-500kcmil, #1G, 3 1/2" C                    | 4-350kcmil, #4G, 3" C                                     | 4-500kcmil, #4G, 3 1/2" C                                       | 4-700kcmil, #1G, 4" C   |
| 350   | 3-500kcmil, #3G, 3" C                      | 3-700kcmil, #1G, 4" C                        | 4-350kcmil, #3G, 3 1/2" C                                 | (2) 4-4/0, #3G, 2 1/2" C  | (2) 4-300kcmil, #1G, 3" C   |
| 400   | 3-600kcmil, #3G, 3" C                      | (2) 3-250kcmil, #1G, 2 1/2" C                | 4-600kcmil, #3G, 3 1/2" C                                 | (2) 4-250kcmil, #3G, 2 1/2" C                                   | (2) 4-350kcmil, #1G, 3" C   |
| 500   | (2) 3-250kcmil, #2G, 2 1/2" C              | (2) 3-350kcmil, 10G, 3" C                    | (2) 4-250, #2G, 2 1/2" C                                  | (2) 4-350kcmil, #2G, 2 1/2" C                                   | (2) 4-500kcmil, 10G, 3 1/2" C                                     |
| 600   | (2) 3-350kcmil, #1G, 3" C                  | (2) 3-500kcmil, 20G, 3" C                    | (2) 4-350kcmil, #1G, 3" C                                 | (2) 4-500kcmil, #1G, 3" C                                       | (2) 4-700kcmil, 20G, 4" C   |
| 700   | (2) 3-500kcmil, 10G, 3" C                  | (2) 3-700kcmil, 30G, 4" C                    | (2) 4-500kcmil, 10G, 3" C                                 | (3) 4-350kcmil, 10G, 3" C                                       | (3) 4-500kcmil, 30G, 3 1/2" C                                     |
| 800   | (2) 3-600kcmil, 10G, 4" C                  | (3) 3-400kcmil, 30G, 3" C                    | (2) 4-600kcmil, 10G, 4" C                                 | (3) 4-400kcmil, 10G, 3" C                                       | (3) 4-600kcmil, 30G, 4" C   |
| 1000  | (3) 3-500kcmil, 20G, 3" C                  | (3) 3-600kcmil, 40G, 3 1/2" C                | (3) 4-500kcmil, 20G, 3 1/2" C                             | (4) 4-350kcmil, 20G, 3" C                                       | (4) 4-600kcmil, 40G, 4" C   |
| 1200  | (4) 3-350kcmil, 30G, 3" C                  | (4) 3-500kcmil, 250kcmilG, 3 1/2" C          | (4) 4-350kcmil, 30G, 3" C                                 | (4) 4-500kcmil, 30G, 3 1/2" C                                   | (4) 4-750kcmil, 250kcmilG, 4" C                                   |
| 1400  | (4) 3-500kcmil, 40G, 3" C                  | (4) 3-700kcmil, 350kcmilG, 3 1/2" C          | (4) 4-500kcmil, 40G, 3 1/2" C                             | (5) 4-500kcmil, 40G, 3 1/2" C                                   | (5) 4-700kcmil, 350kcmilG, 4" C                                   |
| 1600  | (4) 3-600kcmil, 40G, 4" C                  | (5) 3-600kcmil, 350kcmilG, 3 1/2" C          | (4) 4-600kcmil, 40G, 4" C                                 | (6) 4-400kcmil, 40G, 3" C                                       | (6) 4-600kcmil, 350kcmilG, 4" C                                   |
| 2000  | (5) 3-600kcmil, 250kcmil G, 4" C           | (6) 3-600kcmil, 400kcmil G, 3 1/2" C         | (5) 4-600kcmil, 250kcmil G, 4" C                          | (7) 4-500kcmil, 250kcmil G, 3 1/2" C                            | (7) 4-700kcmil, 400kcmil G, 4" C                                  |
| 2500  | (7) 3-500kcmil, 350kcmil G, 3 1/2" C       | (7) 3-750kcmil, 600kcmil G, 4" C             | (7) 4-500kcmil, 350kcmil G, 3 1/2" C                      | (9) 4-500kcmil, 350kcmil G, 3 1/2" C                            | (9) 4-700kcmil, 600kcmil G, 4" C                                  |
| 3000  | (8) 3-600kcmil, 400kcmil G, 3 1/2" C       | (8) 3-700kcmil, 600kcmil G, 4" C             | (8) 4-600kcmil, 400kcmil G, 3 1/2" C                      | (9) 4-750kcmil, 400kcmil G, 5" C                                | (10) 4-700kcmil, 600kcmil G, 4" C                                 |
| 4000  | (9) 3-750kcmil, 500kcmil G, 5" C           | (11) 3-700kcmil, 750kcmil G, 4" C            | (9) 4-750kcmil, 500kcmil G, 5" C                          | (12) 4-600kcmil, 500kcmil G, 4" C                               | (14) 4-700kcmil, 750kcmil G, 4" C                                 |
| NOTES: AMPACITY: THHN/THWN, 75 DEG. RATING NEC: 2023  |  |  |   |   |   |
| **CONDUCTOR AMPACITY REDUCED TO 80% PER NEC AMPACITY TABLE 310.16. ASSUMING NONLINEAR LOADS, THE NEUTRAL SHALL BE CONSIDERED TO BE A CURRENT-CARRYING CONDUCTOR. CONDUIT SIZE BASED ON EMT. E.C. RESPONSIBLE FOR SIZE CHANGES WHEN DIFFERENT TYPE OF CONDUIT IS USED. |  |  |   |   |   |
| NOTE: LIGHTING LOADS ARE CONSIDERED NON-LINEAR. THEREFORE MOST PANELS ARE NON-LINEAR  |  |  |   |   |   |

| D7 (EX)                            |           |      |       |      |       |                  |          |   |          |                 |           |      |       |      |           |          |  |
|------------------------------------|-----------|------|-------|------|-------|------------------|----------|---|----------|-----------------|-----------|------|-------|------|-----------|----------|--|
| BASED ON S.Q.D. NQO OR EQUAL       |           |      |       |      |       |                  |          |   |          |                 |           |      |       |      |           |          |  |
| CKT NO.                            | VOLT AMPS |      |       |      |       | DESCRIPTION      | CKT BRKR | L | CKT BRKR | DESCRIPTION     | VOLT AMPS |      |       |      |           | CKT NO.  |  |
|                                    | LTG.      | HVAC | MTRS. | REC. | OTHER |                  |          |   |          |                 | LTG.      | HVAC | MTRS. | REC. | OTHER     |          |  |
| 1                                  |           |      |       | 1080 |       | EX OFFICE REC    | 20       | A | 20       | EX DENTAL REC   |           |      | 540   |      | 2         |          |  |
| 3                                  |           |      |       | 1080 |       | EX REC           | 20       | B | 20       | EX DENTAL REC   |           |      | 540   |      | 4         |          |  |
| 5                                  |           |      |       | 300  |       | EX ATT/ASE       | 20       | C | 20       | EX COUNTER REC  |           |      | 360   |      | 6         |          |  |
| 7                                  |           |      |       | 360  |       | EX WAITING REC   | 20       | A | 20       | EX COUNTER REC  |           |      | 360   |      | 8         |          |  |
| 9                                  |           |      |       | 360  |       | EX EXAM REC      | 20       | B | 20       | EX COUNTER REC  |           |      | 360   |      | 10        |          |  |
| 11                                 |           |      |       | 360  |       | EX EXAM REC      | 20       | C | 20       | EX DENTAL CHAIR |           |      |       | 500  | 12        |          |  |
| 13                                 |           |      |       | 360  |       | EX EXAM REC      | 20       | A | 20       | EX DENTAL CHAIR |           |      |       | 500  | 14        |          |  |
| 15                                 |           |      |       | 720  |       | EX HALL REC      | 20       | B | 20       | EX DENTAL CHAIR |           |      |       | 500  | 16        |          |  |
| 17                                 |           |      |       | 1200 |       | FREEZER/FRIDGE * | 20       | C | 20       | EXISTING        |           |      | 1080  |      | 18        |          |  |
| 19                                 |           | 5000 |       |      |       | EX AC            | 30/2     | A | 30/2     | EX AC           |           | 5000 |       |      | 20        |          |  |
| 21                                 |           |      |       |      |       | \                | \        | B | \        | \               |           |      |       |      | 22        |          |  |
| 23                                 |           |      |       | 720  |       | EXISTNG          | 20       | C | 20       | DENTAL REC      |           |      | 900   |      | 24        |          |  |
| 25                                 |           |      |       | 540  |       | EXISTING         | 20       | A | 20       | DENTAL REC      |           |      | 900   |      | 26        |          |  |
| 27                                 |           |      |       | 1080 |       | EXISTING         | 20       | B | 20       | WATER COOLER *  |           |      |       | 500  | 28        |          |  |
| 29                                 |           |      | 2500  |      |       | EX COMP          | 20/2     | C | 20       | MICROWAVE       |           |      |       | 1100 | 30        |          |  |
| 31                                 |           |      |       |      |       | \                | \        | A | 20       | IT CLOSET       |           |      | 300   |      | 32        |          |  |
| 33                                 |           |      |       |      |       |                  | 20       | B | 20       | EXISTING        |           |      | 1080  |      | 34        |          |  |
| 35                                 |           |      |       |      |       | 1400 EX VACUUM   | 20       | C | 20       | EXISTING        |           |      | 1080  |      | 36        |          |  |
| 37                                 |           |      |       |      | 200   | EX PAGING        | 20       | A | 20       | EX LIGHTS       | 200       |      |       |      | 38        |          |  |
| 39                                 | 625       |      |       |      |       | EX LIGHTS        | 20       | B | 20       | EX PHONE REC    |           |      | 360   |      | 40        |          |  |
| 41                                 | 670       |      |       |      |       | EX LIGHTS        | 20       | C | 20       |                 |           |      |       |      | 42        |          |  |
| SUBT                               | 1295      | 5000 | 2500  | 6960 | 2800  |                  |          |   |          |                 | 200       | 5000 | 0     | 7860 | 3100 SUBT |          |  |
| TOTAL LOAD                         |           |      |       |      |       |                  |          |   |          |                 | 34,715 VA |      |       |      |           | 208Y/120 |  |
| LTG =                              |           |      |       |      |       |                  |          |   |          |                 | 1,495 VA  |      |       |      |           | 3        |  |
| HVAC =                             |           |      |       |      |       |                  |          |   |          |                 | 10,000 VA |      |       |      |           |          |  |
| MOTORS =                           |           |      |       |      |       |                  |          |   |          |                 | 2,500 VA  |      |       |      |           |          |  |
| *RECEPT =                          |           |      |       |      |       |                  |          |   |          |                 | 14,820 VA |      |       |      |           | 200A     |  |
| OTHER =                            |           |      |       |      |       |                  |          |   |          |                 | 5,900 VA  |      |       |      |           |          |  |
| TOTAL DIV. LOAD =                  |           |      |       |      |       |                  |          |   |          |                 | 33,304 VA |      |       |      |           |          |  |
| LINE AMPS =                        |           |      |       |      |       |                  |          |   |          |                 | 93        |      |       |      |           |          |  |
| LINE AMPS X 1.25 =                 |           |      |       |      |       |                  |          |   |          |                 | 116 A     |      |       |      |           |          |  |
| NOTES:                             |           |      |       |      |       |                  |          |   |          |                 |           |      |       |      |           |          |  |
| * PROVIDE NEW GFCI CIRCUIT BREAKER |           |      |       |      |       |                  |          |   |          |                 |           |      |       |      |           |          |  |



architektura.plc  
PO Box 971  
Grand Haven, MI 49417  
p: 616.843.1002  
www.architekturaplclp.com



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GRAND RAPIDS PUBLIC SCHOOLS  
1800 TREMONT BLVD NW, GRAND RAPIDS MI 49504

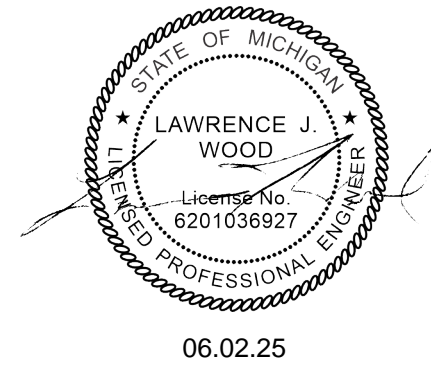
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| PROJECT NO. | 1342             |
| ISSUANCES   |                  |
| 2 JUNE 2025 | BIDS AND PERMITS |

| REVISIONS |      |             |
|-----------|------|-------------|
| NO.       | DATE | DESCRIPTION |

ONE-LINE DIAGRAM

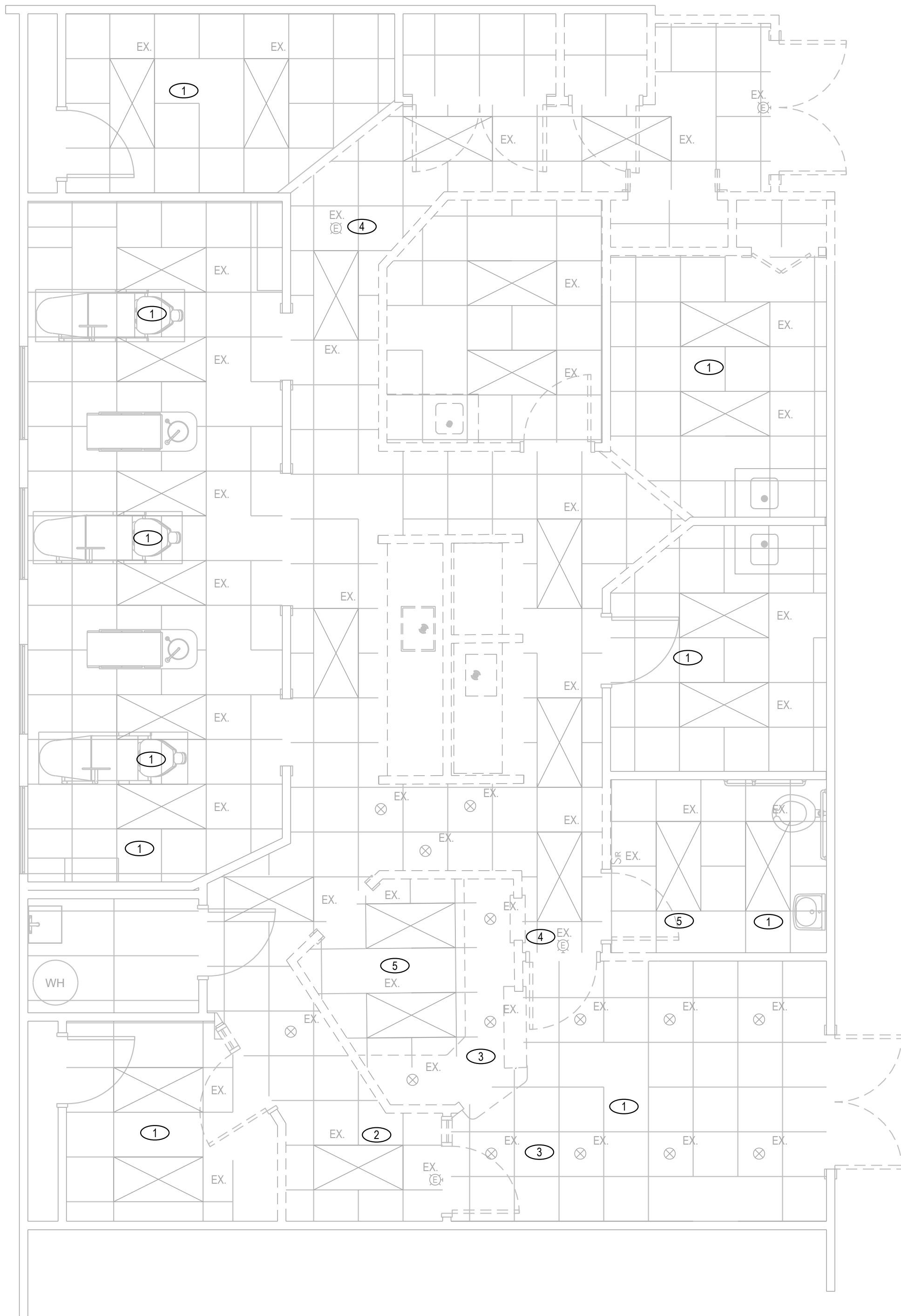
SCALE :  
As indicated

E2.00





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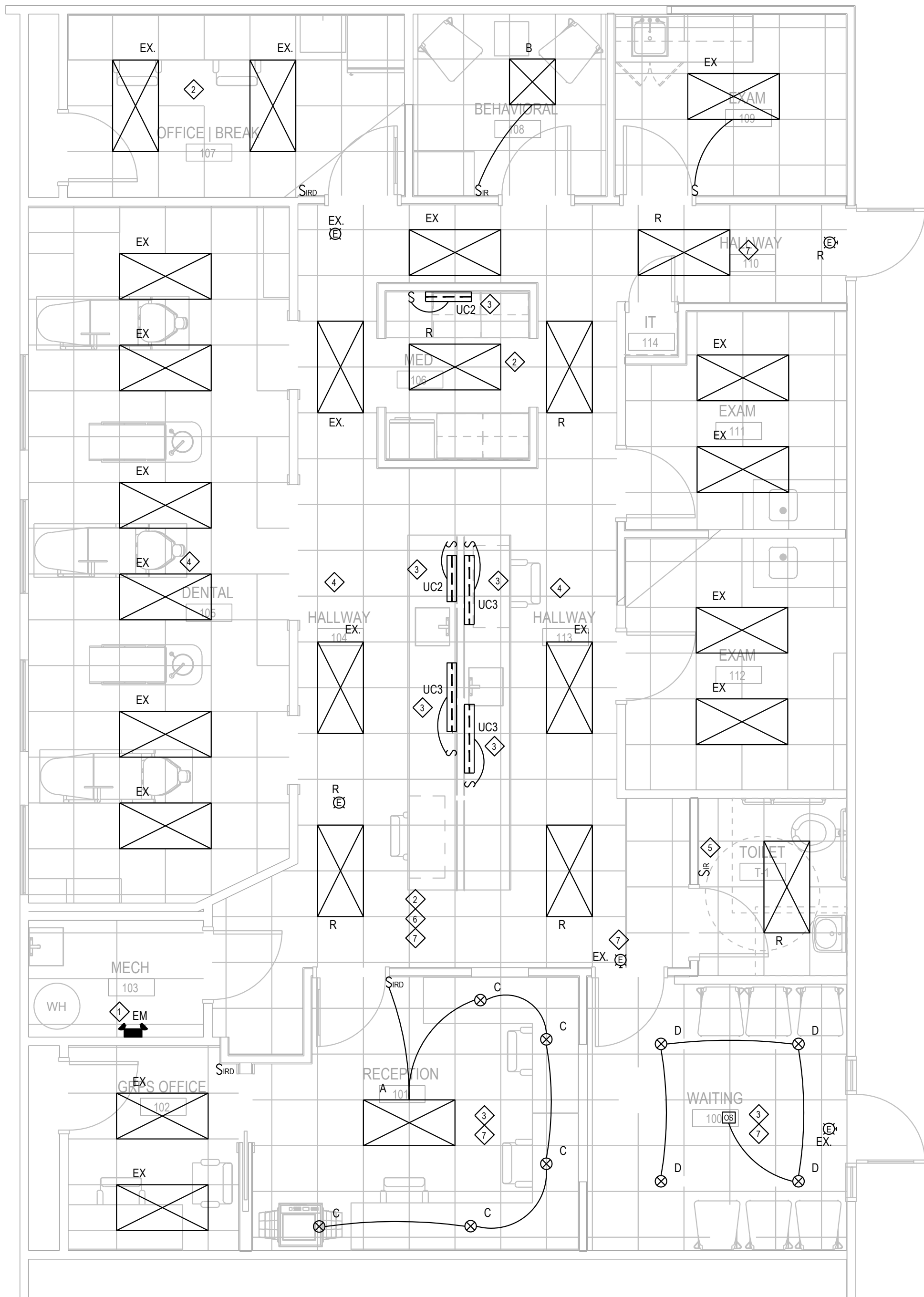
**FIRST FLOOR PLAN -  
LIGHTING DEMOLITION**  
SCALE: 1/4" = 1'-0"

**LIGHTING KEY NOTES:**

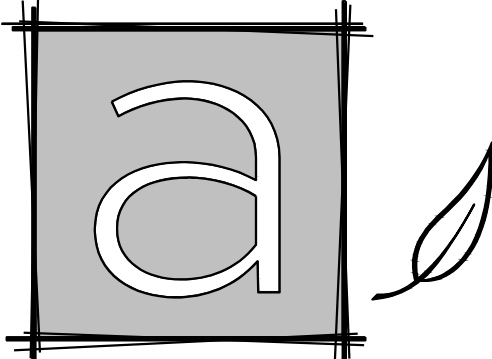
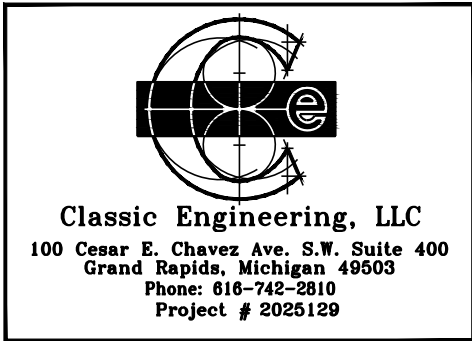
- ◇ PROVIDE NEW BATTERY EMERGENCY LIGHT FIXTURE TO ILLUMINATE EXISTING ELECTRICAL PANEL.
- ◇ REUSE EXISTING LIGHTS. RELOCATE AS SHOWN.
- ◇ NEW LIGHTS WILL BE TAGGED AND CALLED OUT ON FIXTURE SCHEDULE.
- ◇ EXISTING LIGHTS IN CORRIDORS UNLESS NOTED ARE TO REMAIN.
- ◇ RELOCATE EXISTING LIGHT CONTROL SWITCH. EXTEND EXISTING CIRCUIT.
- ◇ LIGHTS DESIGNATED AS R, RECONNECT TO EXISTING CIRCUIT IN AREA.
- ◇ RECONNECT EXISTING LIGHTS CONNECTED TO EMERGENCY GENERATOR.

**GENERAL LIGHTING NOTES:**

- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.
- EXIT SIGNS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT OR EMERGENCY LIGHTING CIRCUIT FEEDING THAT AREA. RECONNECT IF RELOCATED TO SAME CIRCUIT.
- LIGHTING CONTROL SHALL COMPLY WITH 2021 MICHIGAN ENERGY CODE WHERE APPLICABLE.
- ALL EXISTING LIGHTS TO REMAIN ARE LED.
- REUSE EXISTING LIGHTING CIRCUITS FED FROM PANEL D7 LOCATED IN MECHANICAL ROOM #10.



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



**architektura** <sup>PLC</sup>  
PO Box 971  
Grand Haven, MI 49417  
p: 616.843.1002  
www.architekturaplc.com



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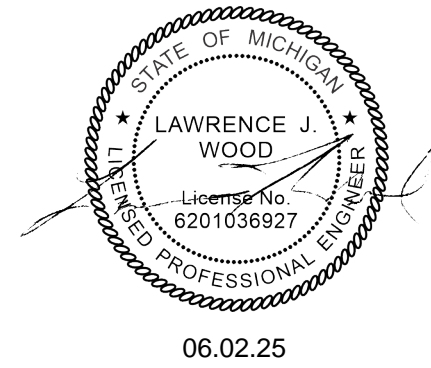
|                  |                  |
|------------------|------------------|
| PROJECT NO. 1342 |                  |
| ISSUANCES        |                  |
| 2 JUNE 2025      | BIDS AND PERMITS |

|           |      |             |
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| REVISIONS |      |             |
| NO.       | DATE | DESCRIPTION |

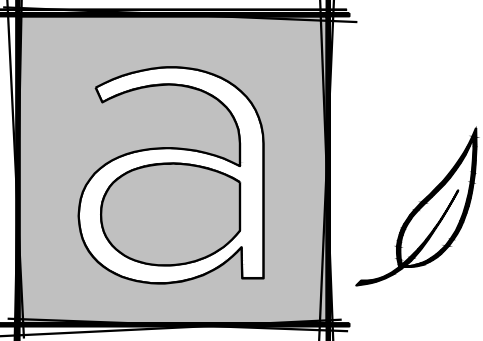
**FIRST FLOOR AND  
DEMOLITION PLANS  
- LIGHTING**

SCALE :  
As indicated

**EL-1**





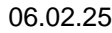


1800 TREMONT BLVD NW, GRAND RAPIDS MI 49504

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| JUNE 2025 | BIDS AND PERMITS |
|           |                  |

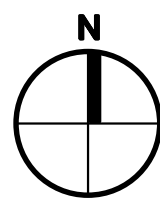
# FIRST FLOOR AND DEMOLITION PLANS - POWER

# EP-1

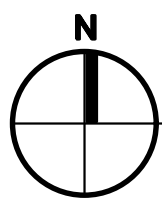


**GENERAL POWER NOTES:**

1. ALL 15A & 20A 120V NON-LOCKING RECEPTACLES WITH PUBLIC SPACES WHERE CHILDREN CAN BE FOUND SHALL BE LISTED TAMPER RESISTANT PER NEC 406.12. THIS INCLUDES SCHOOLS, HOTELS, CLINICS, OUTPATIENT FACILITIES, PLACES OF WAITING AND ALL COMMON USE AREAS (CORRIDORS, GYM, MUSIC ETC.).
2. FIRE ALARM (FA) DEVICES, IF SHOWN, ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED ONLY TO COMMUNICATE MAJOR SYSTEM COMPONENTS AND APPROXIMATE LOCATIONS. FULL FA DRAWINGS TO BE DELEGATED DESIGN AND SHALL INCLUDE ALL SYSTEM COMPONENTS, CALCULATIONS AND LOCATIONS.
3. ADD FIRE ALARM DEVICES AS SHOWN ON PLANS. CONNECT TO EXISTING SYSTEM. MATCH EXISTING DEVICES.
4. ADDED FIRE ALARM DEVICES REQUIRE RECERTIFICATION OF SYSTEM.
5. FIELD VERIFY EXISTING PANEL D7. EXISTING PANEL SCHEDULE DOES NOT LABEL ALL CIRCUITS.



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



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

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