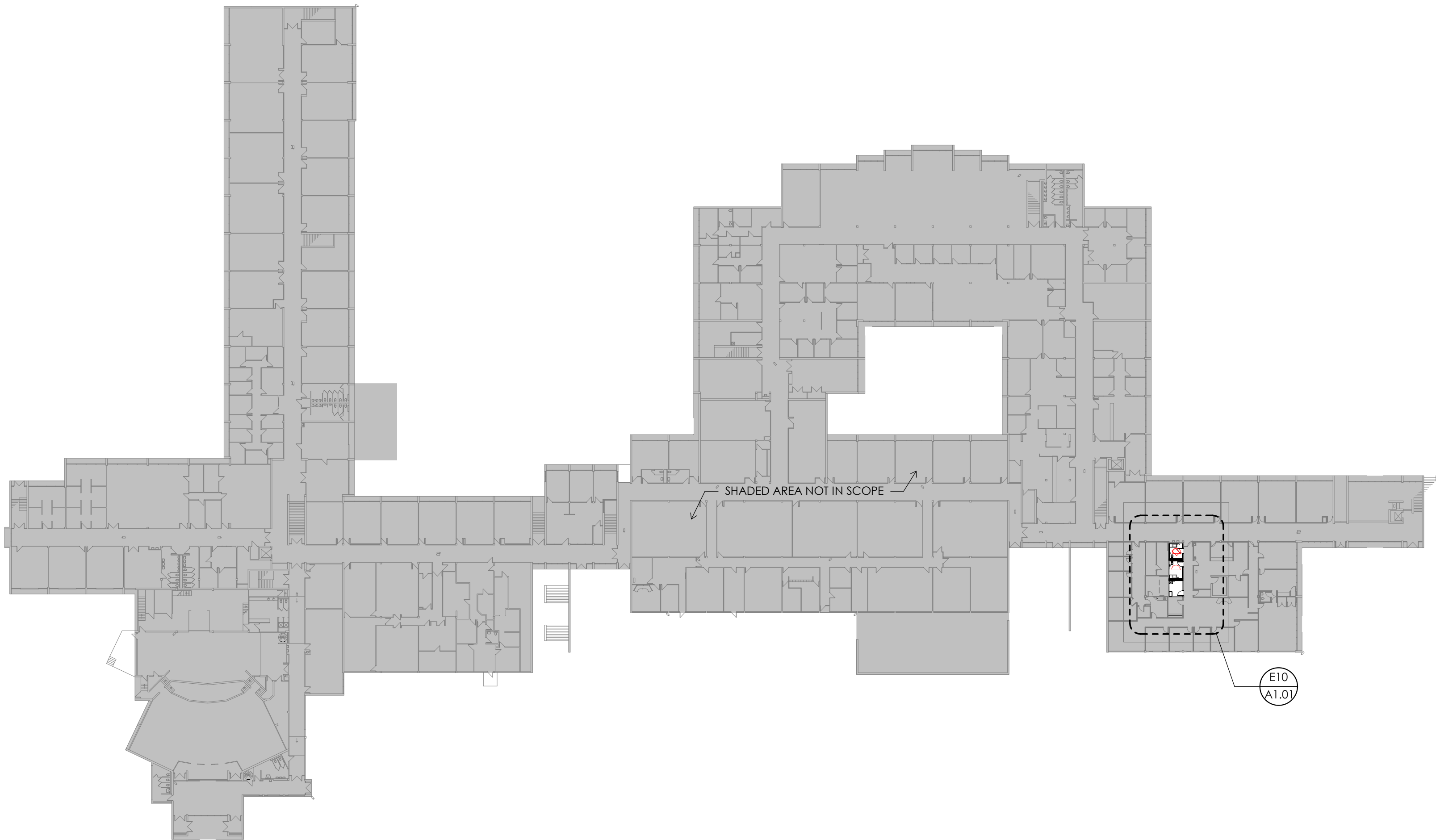


KCKCC RESTROOM REMODEL

ISSUE FOR BID AND PERMIT

PROJECT LOCATION



DRAWING LIST	
0 - GENERAL	
G0.00	COVER
G0.01	ACCESSIBILITY DIAGRAMS & TYPICAL DETAILS
G0.02	ARCHITECTURAL SPECIFICATIONS
G0.03	ARCHITECTURAL SPECIFICATIONS
G0.04	ARCHITECTURAL SPECIFICATIONS
G0.05	ARCHITECTURAL SPECIFICATIONS
3 - ARCHITECTURE	
A1.01	PLANS
A1.02	INTERIOR ELEVATIONS & SCHEDULES
5 - MECHANICAL, PLUMBING & ELECTRICAL	
MEP0.01	MEP COVER SHEET
MEP0.02	MEP SPECIFICATIONS
MEP0.03	MEP SPECIFICATIONS
M1.01	MECHANICAL PLANS
M2.01	MECHANICAL SCHEDULES & DETAILS
E1.01	ELECTRICAL PLANS
E2.01	ELECTRICAL SCHEDULES & DETAILS



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#A-516

MEP Engineer
PKMR Engineers
State Certificate of Authority
#E-1682
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ADOPTED CODES KANSAS CITY, KS

AHJ: UNIFIED GOVERNMENT OF WYANDOTTE COUNTY

2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL BUILDING CODE
2018 UNIFORM PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2009 ICC A117.1
2018 NFPA LIFE SAFETY CODE

CODE REVIEW INFORMATION

CONSTRUCTION TYPE
1-5
BUILDING IS NOT SPRINKLERED

USE AND OCCUPANCY
GROUP B, M, A-3 (MOST RESTRICTIVE OF NON-SEPARATED OCCUPANCIES)

OCCUPANCY COUNT CALCULATION
EXISTING BUILDING OCCUPANCY COUNT IS UNCHANGED WITH THIS ALTERATION.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
BUILDING HEIGHT (PER TABLE 504.3 & 504.4)
EXISTING - UNCHANGED WITH THIS ALTERATION

BUILDING AREA (PER TABLE 506.2)
EXISTING - UNCHANGED WITH THIS ALTERATION

NONSEPARATED OCCUPANCIES (PER 508.3.3)
NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES

CHAPTER 6 TYPE OF CONSTRUCTION
FIRE RESISTANCE REQUIREMENTS (TABLE 601)
STRUCTURAL FRAME 2 HR*
EXTERIOR BEARING WALLS 2 HR*
INTERIOR BEARING WALLS 2 HR*
INTERIOR NON-BEARING WALLS 0 HR
FLOOR CONSTRUCTION 2 HR
ROOF CONSTRUCTION 1 HR**
EXTERIOR NON-BEARING WALLS 0 HR***

*ROOF SUPPORTS - FIRE RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.

**EXCEPT IN GROUP F-1, H, M AND S-1 OCCUPANCIES, FIRE PROTECTION OF STRUCTURAL MEMBERS SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF ROOF FRAMING AND DECKING WHERE EVERY PART OF ROOF CONSTRUCTION IS 20 FEET OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW.

***FIRE RESISTANCE REQUIREMENTS PER TABLE 602

CHAPTER 8 INTERIOR FINISHES
FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)
EXIT STAIRWAY & PASSAGEWAY A
CORRIDORS A
ROOMS & ENCLOSED SPACES C

CHAPTER 29 PLUMBING SYSTEMS
THIS ALTERATION MAINTAINS THE EXISTING QUANTITY OF FIXTURES WITHIN THE SPACE AND DOES NOT ALTER THE USE OR OCCUPANCY CLASSIFICATION OF THE SPACE.

IEBC - CHAPTER 4 CLASSIFICATION OF WORK
LEVEL 2 ALTERATION WITH A WORK AREA OF APPROXIMATELY 425 SF (<50% OF THE BUILDING AREA). THE SCOPE OF WORK CONSISTS OF RECONFIGURATION OF EXISTING TOILET ROOM AND JANITOR CLOSET SPACES WITHIN THE EXISTING FOOTPRINT OF THOSE SPACES AND THE MODIFICATION OF THE EXISTING SANITARY DRAIN PIPING FOR THE PLUMBING FIXTURES.

IEBC - CHAPTER 8 ALTERATIONS LEVEL 2
NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (801.3)

ICC A117.1 - CHAPTER 6 PLUMBING ELEMENTS AND FACILITIES
DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE (603.2.2)

EXCEPTION #2: WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, THE DOOR SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 603.2.2.

SYMBOLS

Detail Number
Detail Section
Sheet Number
Detail Number
Building Section
Sheet Number
Detail Number
Callout
Sheet Number
Detail Number
Elevation
Sheet Number
Room Name
Room Designation
Room Number
Door Number
Wall Type
Window Designation
Keynote Designation
Spot Elevation
Revision Symbol

Room name
101
101
S3AA.1
A
A
A
A

I HEREBY CERTIFY THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO THE COVER AND THOSE SHEETS LISTED UNDER THE ARCHITECTURAL HEADER OF THE DRAWING LIST. I HEREBY DISCLAIM RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

Dalyn Navak - Architect
KS # 7647

DATE

JOB NUMBER 22060J

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COVER

G0.00

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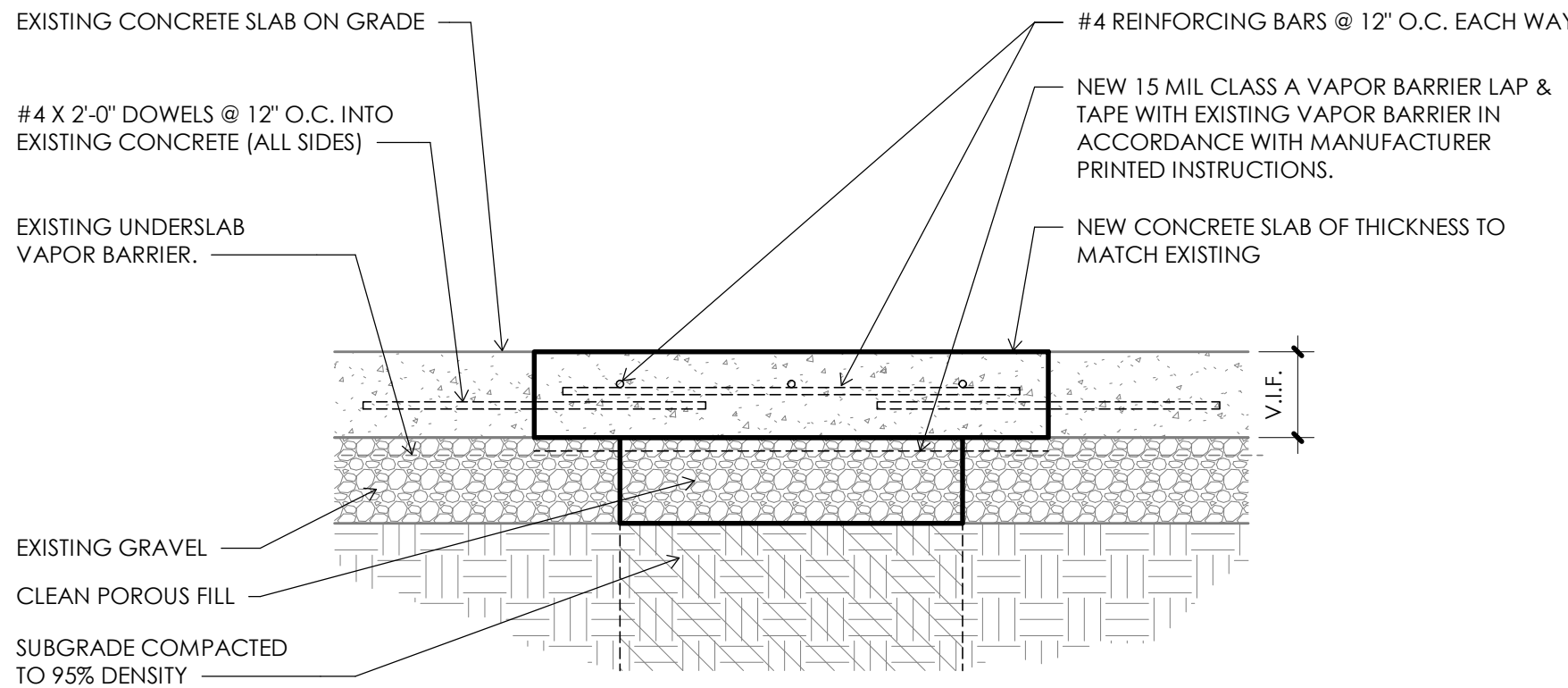
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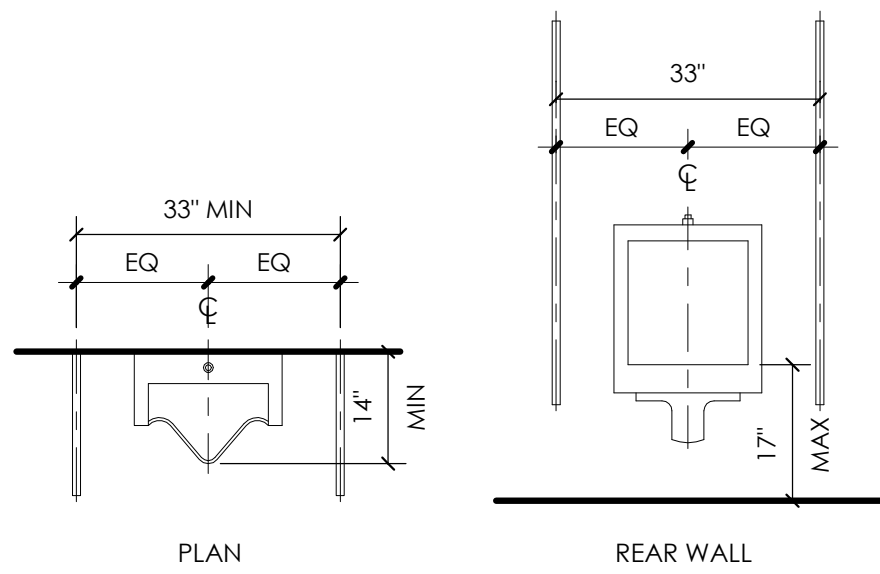


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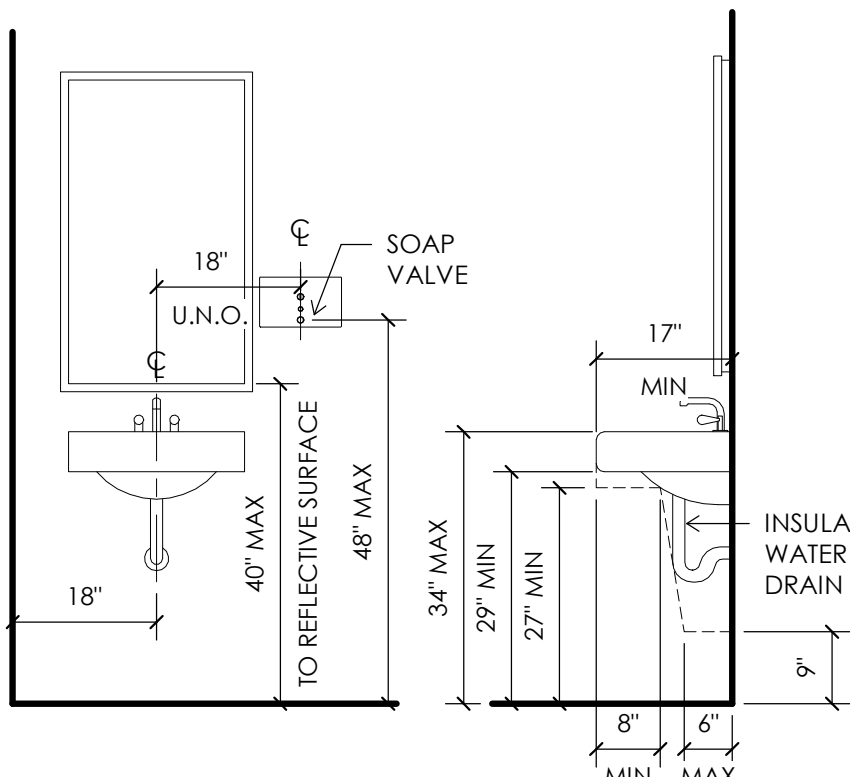


TYPICAL CONCRETE
G3 PATCH DETAIL
1" = 1'-0"



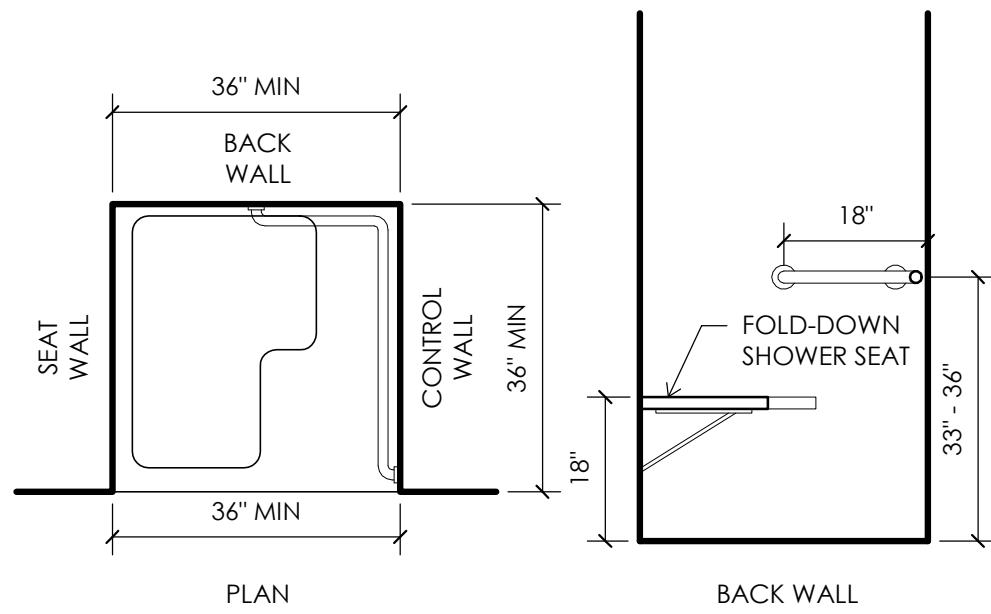
URINAL CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL, **NOT** STUD



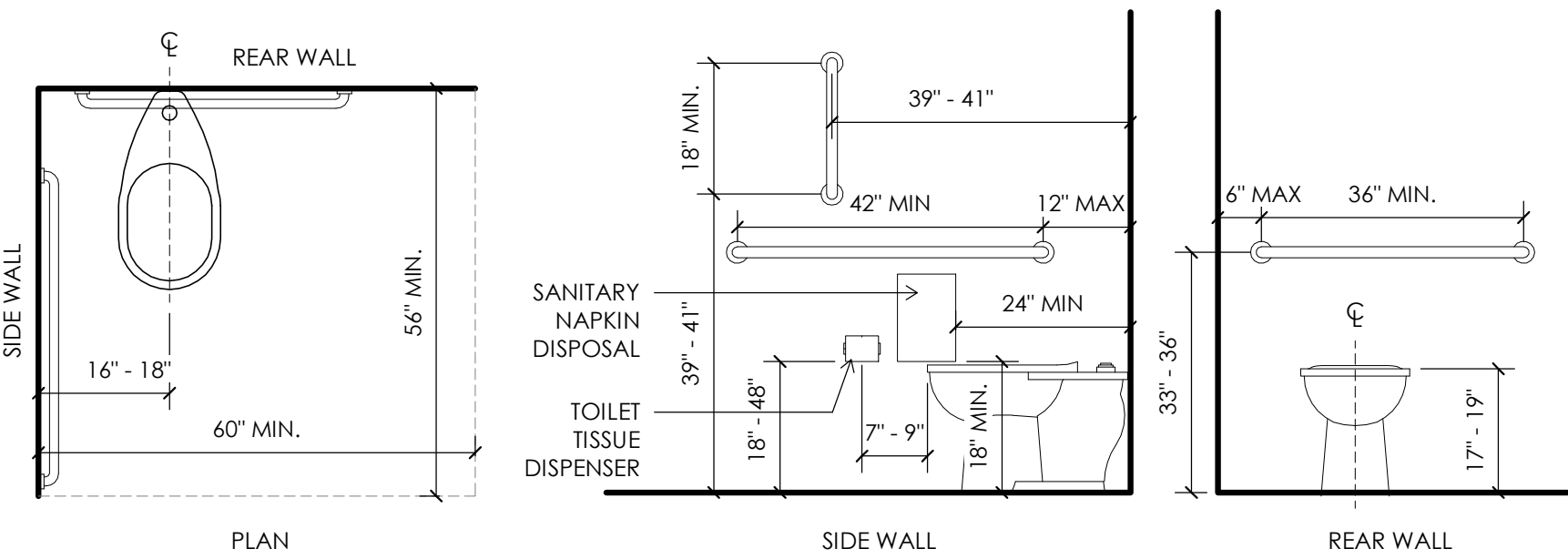
LAVATORY CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL, **NOT** STUD



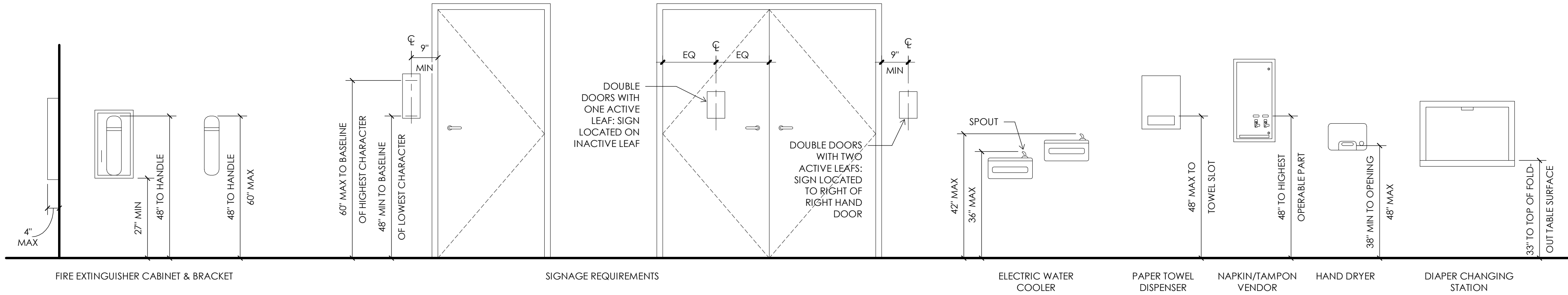
TRANSFER TYPE SHOWER COMPARTMENT

ALL DIMENSIONS ARE TO FINISH FACE OF WALL, **NOT** STUD



WATER CLOSET CLEARANCES

ALL DIMENSIONS ARE TO FINISH FACE OF WALL, **NOT** STUD



ADA TYPICAL
A7 MOUNTING HEIGHTS
1/2" = 1'-0"

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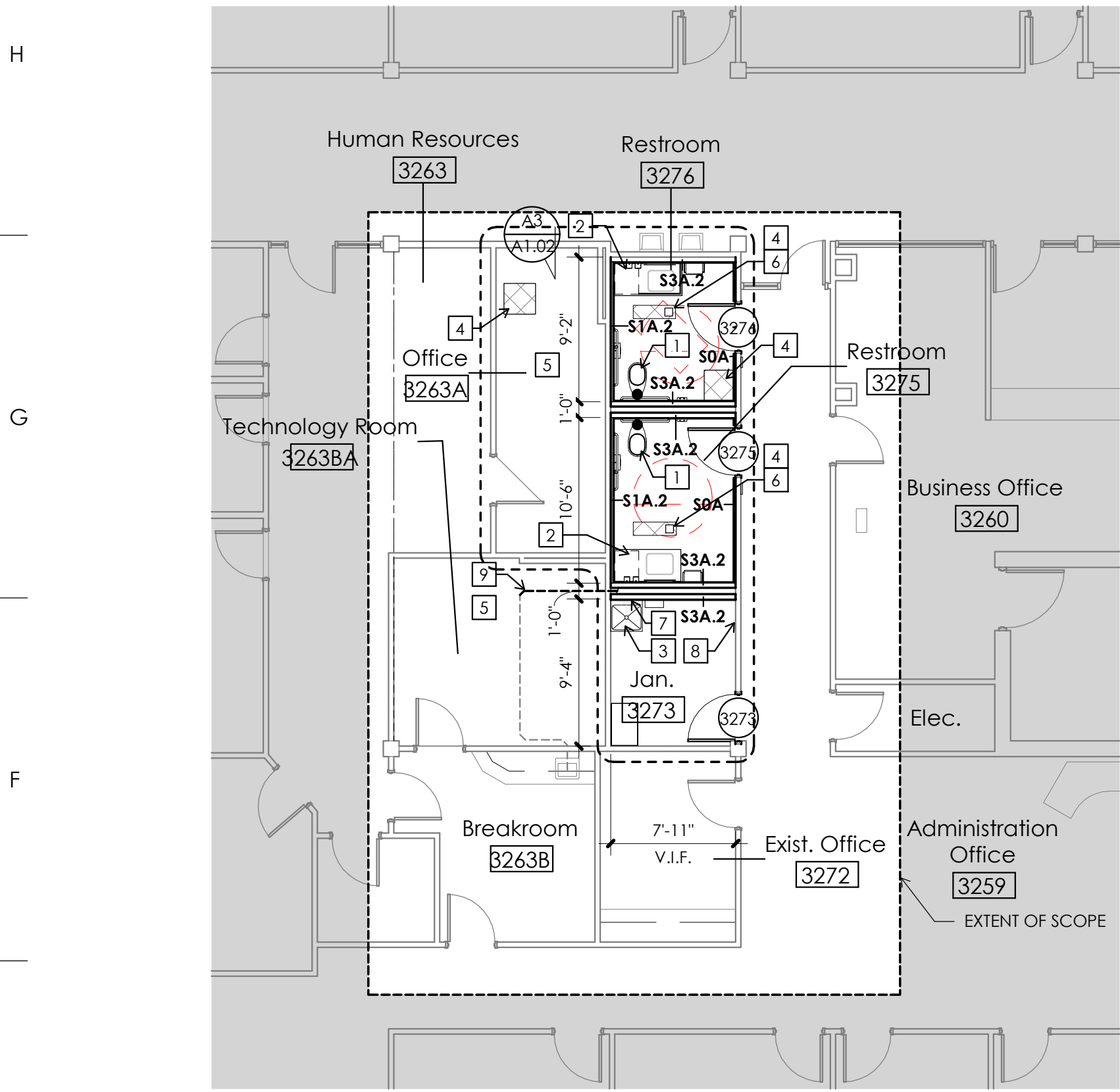
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ACCESSIBILITY
DIAGRAMS &
TYPICAL
DETAILS

G0.01



E10 SECOND FLOOR PLAN
1/8" = 1'-0"



PARTITION TYPE LEGEND

BASIC MATERIAL:
C CONCRETE (NON-STRUCTURAL WALLS ONLY)
M MASONRY (CMU)
S METAL STUD
W WOOD STUD

NOMINAL SIZE:
0 7/8" FURRING CHANNEL
1 1 5/8" STUD
3 3 5/8" STUD

APPLIED LAYERS:
A. 1 LAYER 5/8" DRYWALL / TILE BACKING PANEL
B. 2 LAYERS 5/8" DRYWALL / TILE BACKING PANEL
C. 1 LAYER 5/8" DRYWALL ON 7/8" METAL FURRING CHANNEL
D. 1 LAYER 5/8" DRYWALL ON 1 5/8" STUD FURRING
E. 1 LAYER 5/8" DRYWALL ON 3 5/8" STUD FURRING

MODIFYING CONDITIONS:
1. PARTIAL HEIGHT WALL. REFER TO SECTIONS / ELEVATIONS ON FLOOR PLAN FOR HEIGHT OF WALL.
2. PROVIDE ACOUSTIC BATT INSULATION: FULL CAVITY WIDTH AND FULL WALL HEIGHT.
3. COMPLETE WALL ASSEMBLY EXTENDS TO 6" ABOVE ADJOINING CEILING. BRACE WALL AS REQUIRED.

GENERAL NOTES:
1. COMPLETE WALL ASSEMBLY IS CONTINUOUS TO BOTTOM OF ROOF DECK OR BOTTOM OF ASSEMBLY ABOVE UNLESS CHANGED BY MODIFYING CONDITION.
2. ALL INTERIOR WALL TYPES ARE **S3AA.2** UNLESS NOTED OTHERWISE.
3. PROVIDE TILE BACKER BOARD WHERE REQUIRED AS SUBSTRATE FOR FINISHES. REFER TO FINISH SCHEDULE FOR WALL FINISH AND SPECIFICATIONS.
4. THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING WALL. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION DESIGNATION APPLIES TO BOTH.
5. REFERENCE ENLARGED PLANS FOR ADDITIONAL PARTITION CALL OUTS.

PARTITION TYPE SYMBOL

BASIC MATERIAL
NOMINAL SIZE
APPLIED LAYERS CODE
MODIFYING CONDITIONS CODE

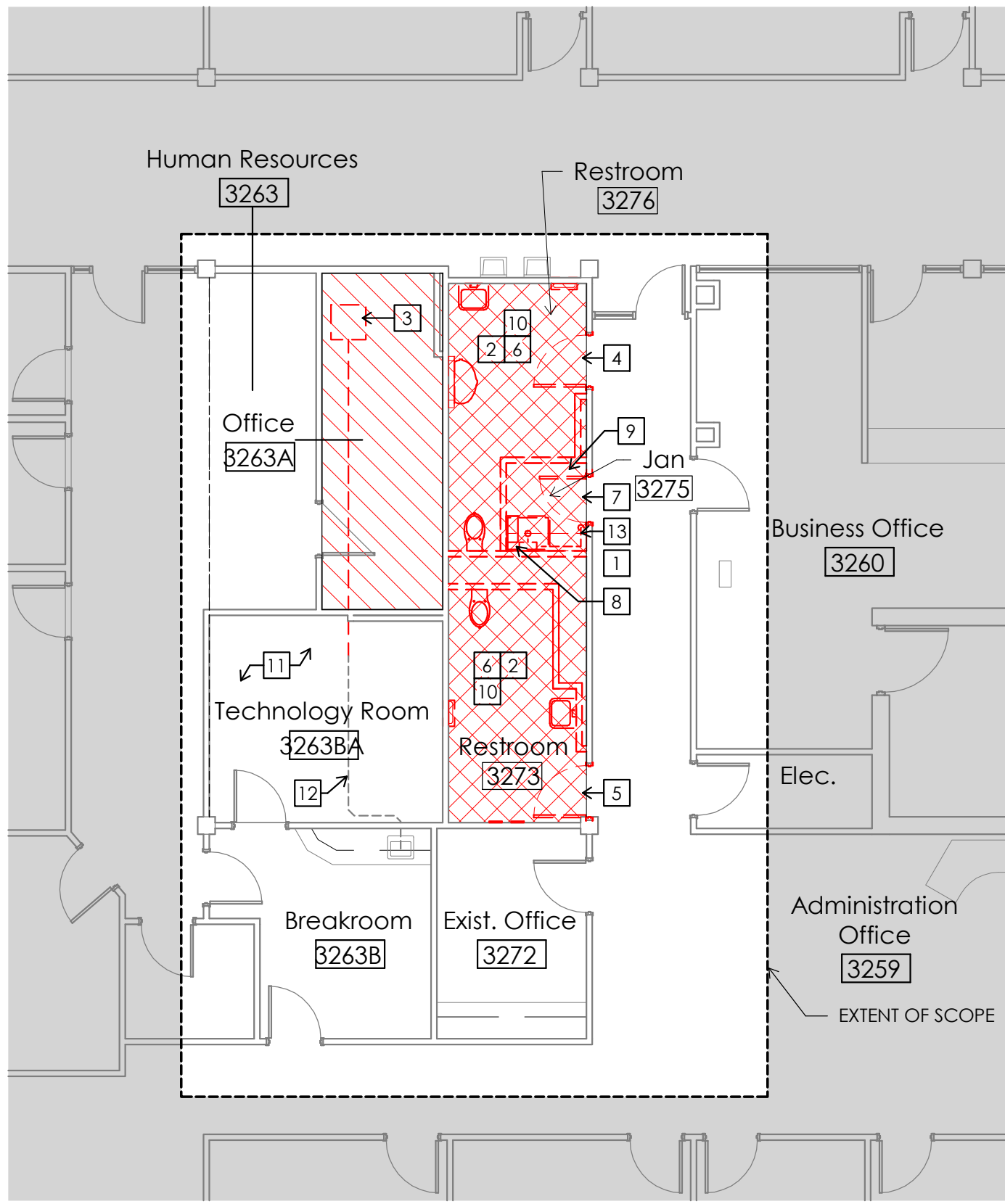
S3AA.1

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
4. ALL DOOR OPENINGS ARE TO BE LOCATED 4" FROM HINGE SIDE OF ADJACENT WALL UNLESS CENTERED IN ROOM OR NOTED OTHERWISE.
5. COORDINATE ROOF AND FLOOR PENETRATIONS W/ MEP AND STRUCTURAL DRAWINGS.
6. SIGNAGE SCHEDULE ON A1.02 FOR INTERIOR WALL MOUNTED ADA SIGNAGE AND LOCATIONS.
7. REFER TO ROOM FINISH SCHEDULE ON A1.02 FOR INTERIOR FINISHES.
8. REFER TO TYPICAL ADA FIXTURE MOUNTING GUIDE ON G0.01.
9. REFER TO ENLARGED FLOOR PLANS FOR FURTHER INFORMATION ON PARTITION TYPE TAGS, DIMENSIONS, ETC.
10. PATCH AND REPAIR ALL TRENCHING OF THE EXISTING CONCRETE SLAB-ON-GRADE REQUIRED FOR THE INSTALLATION OF NEW PLUMBING FIXTURES AND UNDERSLAB SANITARY DRAIN PIPING. REFER TO DETAIL G3/G0.01.
11. SEAL ALL PENETRATIONS OF NEW & EXISTING PARTITIONS, CEILINGS AND FLOORS.

PLAN NOTES:

- 1 NEW WATER CLOSET, REFER TO MECHANICAL DRAWINGS.
- 2 NEW LAVATORY, REFER TO ENLARGED PLAN AND MECHANICAL DRAWINGS.
- 3 NEW UTILITY SINK, REFER TO MECHANICAL DRAWINGS.
- 4 PATCH & REPAIR EXISTING SLAB-ON-GRADE. REFER TO DETAIL G3 / G0.01.
- 5 REINSTALL EXISTING RAISED ACCESS FLOOR PANELS UPON COMPLETION OF WORK. PREP TO RECIEVE NEW CARPET TILE.
- 6 6"x6" SQUARE FLOOR DRAIN, REFER TO A1.02 & MEP DRAWINGS.
- 7 REINSTALL EXISTING CLEANING SOLUTION DISPENSING EQUIPMENT AT NEW MOP SINK. PROVIDE IN-WALL BLOCKING AS REQUIRED.
- 8 RELOCATE EXISTING ELEVATOR EQUIPMENT POTS LINE TO NEW JANITOR'S CLOSET LOCATION. COORDINATE FINAL LOCATION WITH OWNER. REFER TO MEP DRAWINGS.
- 9 PROVIDE SANITARY DRAIN REROUTING AS INDICATED. REFER TO MEP DRAWINGS. SEAL PENETRATIONS THROUGH EXISTING WALL & FLOOR ASSEMBLIES, TYP.



E4 SECOND FLOOR DEMO PLAN
1/8" = 1'-0"



DEMOLITION PLAN LEGEND:

--- WALL TO BE DEMOLISHED
— WALL TO REMAIN
REMOVE EXISTING VCT FLOOR FINISH AND CERAMIC TILE FLOOR FINISH BELOW IT. PREP FLOOR FOR NEW FLOOR FINISHES AS INDICATED.
CAREFULLY REMOVE RAISED ACCESS FLOOR PANELS ONLY AS NECESSARY TO CONDUCT WORK BELOW. PROTECT FLOOR PANELS FOR REINSTALLATION IN SAME LOCATION.

DEMOLITION RCP LEGEND:

GYP. BD. OR PLASTER CEILING TO BE REMOVED IN ITS ENTIRETY
CAREFULLY REMOVE PORTIONS OF EXISTING SUSPENDED ACOUSTICAL TILE CEILING AS NECESSARY TO INSTALL NEW MECHANICAL WORK ABOVE. SALVAGE ACOUSTIC TILES & GRID COMPONENTS FOR REINSTALLATION AT SAME LOCATION AS POSSIBLE.

GENERAL DEMO PLAN NOTES:

1. THIS DRAWING REPRESENTS THE GENERAL SCOPE OF CONTRACTOR REQUIRED DEMOLITION FOR THE REFERENCED AREA. REFER TO NEW CONSTRUCTION DRAWINGS FOR REQUIRED WORK THAT MAY NOT BE REPRESENTED IN THIS DRAWING.
2. CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS AND ADVISE ARCHITECT/ENGINEER OF ALL DESIGN DOCUMENT DISCREPANCIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF DESIGN INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
4. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
5. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
6. INADVERTENT DAMAGE TO WALLS, FLOORS, AND CEILINGS NOT MARKED FOR DEMO SHALL BE REPAIRED.
7. MAINTAIN SECURE WEATHER TIGHT ENCLOSURE OF THE EXISTING BUILDING THROUGHOUT PERIOD OF WORK.
8. WHERE EXISTING FINISHES ARE TO REMAIN, PROTECT DURING CONSTRUCTION
9. DEMOLITION PLANS REPRESENT THE MINIMUM DEMOLITION NEEDED TO ACCOMMODATE NEW CONSTRUCTION. THE CONTRACTOR HAS THE OPTION TO DEMOLISH ADDITIONAL AS NEEDED TO FACILITATE THE NEW CONSTRUCTION, SUBJECT O REVIEW OF A/E AND OWNER.
10. CONTRACTOR WILL VERIFY WITH OWNER ALL EQUIPMENT/ BUILDING MATERIALS TO BE SALVAGED AND WILL BE REMOVED BY CONTRACTOR.
11. COORDINATE DEMOLITION WORK WITH OWNER. DEMOLITION WORK THAT WILL IMPACT EXISTING BUILDING SYSTEMS SHALL BE REVIEWED WITH THE OWNER AT LEAST 48 HOURS IN ADVANCE OF SUCH WORK.
12. PROTECT EXISTING CONSTRUCTION WORK WHICH IS NOT SCHEDULED TO BE REMOVED. PROTECT/COVER ALL EXPOSED ELECTRICAL EQUIPMENT (I.E. SMOKE DETECTORS, ETC.).
13. SEAL PENETRATION THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. SEAL ANY OPENINGS IN RATED CONSTRUCTION WITH APPROPRIATE FIRE SEALANT LABELED AND APPROVED TO MATCH ASSEMBLY RATING.
14. REMOVE ALL EXISTING WIRING, CABLING AND CONDUIT SERVING EXISTING ITEMS REMOVED UNDER DEMOLITION BACK TO THE SOURCE SERVING THE ITEMS, WHERE REMOVAL OF EXISTING WIRING INTERRUPTS THE ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE. PROVIDE NECESSARY WIRING, RACEWAYS, JUNCTION BOXES AND ADDITIONAL MATERIALS AS REQUIRED TO ENSURE CONTINUED ELECTRICAL CONTINUITY.
15. CONTRACTOR SHALL MAINTAIN EXISTING MEANS OF EGRESS AT ALL TIMES THROUGHOUT CONSTRUCTION.

DEMOLITION PLAN NOTES:

- 1 PROTECT EXISTING FINISHES DURING CONSTRUCTION
- 2 REMOVE EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES IN THEIR ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 REMOVE EXISTING PUMP & PORTION OF ASSOCIATED SANITARY WASTE LINES AS INDICATED TO RECONFIGURE SANITARY WASTE LINES. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 4 REMOVE EXISTING DOOR & FRAME. PREP EXISTING OPENING FOR INSTALLATION OF NEW DOOR & FRAME
- 5 EXISTING DOOR FRAME TO REMAIN. REMOVE EXISTING DOOR LEAF. PREP DOOR FRAME TO RECEIVE NEW PAINTED FINISH TO MATCH EXISTING PAINT COLOR.
- 6 REMOVE EXISTING FIRE ALARM DEVICES & PREP FOR INSTALLATION OF NEW DEVICES. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 7 REMOVE EXISTING DOOR & FRAME, ENLARGE & PREP EXISTING OPENING FOR INSTALLATION OF NEW DOOR & FRAME
- 8 REMOVE EXISTING CLEANING SOLUTION DISPENSING EQUIPMENT & SALVAGE FOR REINSTALLATION AT NEW MOP SINK LOCATION
- 9 REMOVE EXISTING ABANDONED LOW VOLTAGE & ELECTRICAL CABLING BACK TO SOURCE. PREP EXISTING ELEVATOR EQUIPMENT POTS LINE FOR RELOCATION TO NEW LOCATION; RE: MEP DRAWINGS
- 10 REMOVE PORTIONS OF EXISTING SLAB ON GRADE AS NECESSARY FOR THE INSTALLATION OF NEW UNDERSLAB PLUMBING FIXTURES & SANITARY DRAIN LINES; RE: MEP DRAWINGS
- 11 EXISTING IT EQUIPMENT IN ROOM TO REMAIN AND BE OPERATIONAL. PROTECT AS REQUIRED DURING THE COURSE OF WORK. FULLY COORDINATE WITH OWNER LIMITATIONS OF ACCESS OR OTHER DISRUPTIONS.
- 12 PORTION OF EXISTING SANITARY DRAIN PIPE TO REMAIN. PREP FOR NEW PIPE ROUTING AS INDICATED; REFER TO MEP DRAWINGS.
- 13 REMOVE CONDENSATE DRAIN PIPE TO THE POINT INDICATED ABOVE THE CEILING. PREP FOR INSTALLATION OF NEW PIPE TO EXTEND CONDENSATE DRAIN LINE TO NEW MOP SINK LOCATION AS INDICATED. REFER TO MEP DRAWINGS.
- 14 REMOVE EXISTING LIGHT FIXTURES AND PREP FOR INSTALLATION OF NEW LIGHT FIXTURES AS INDICATED; REFER TO MEP DRAWINGS.

GENERAL RCP NOTES:

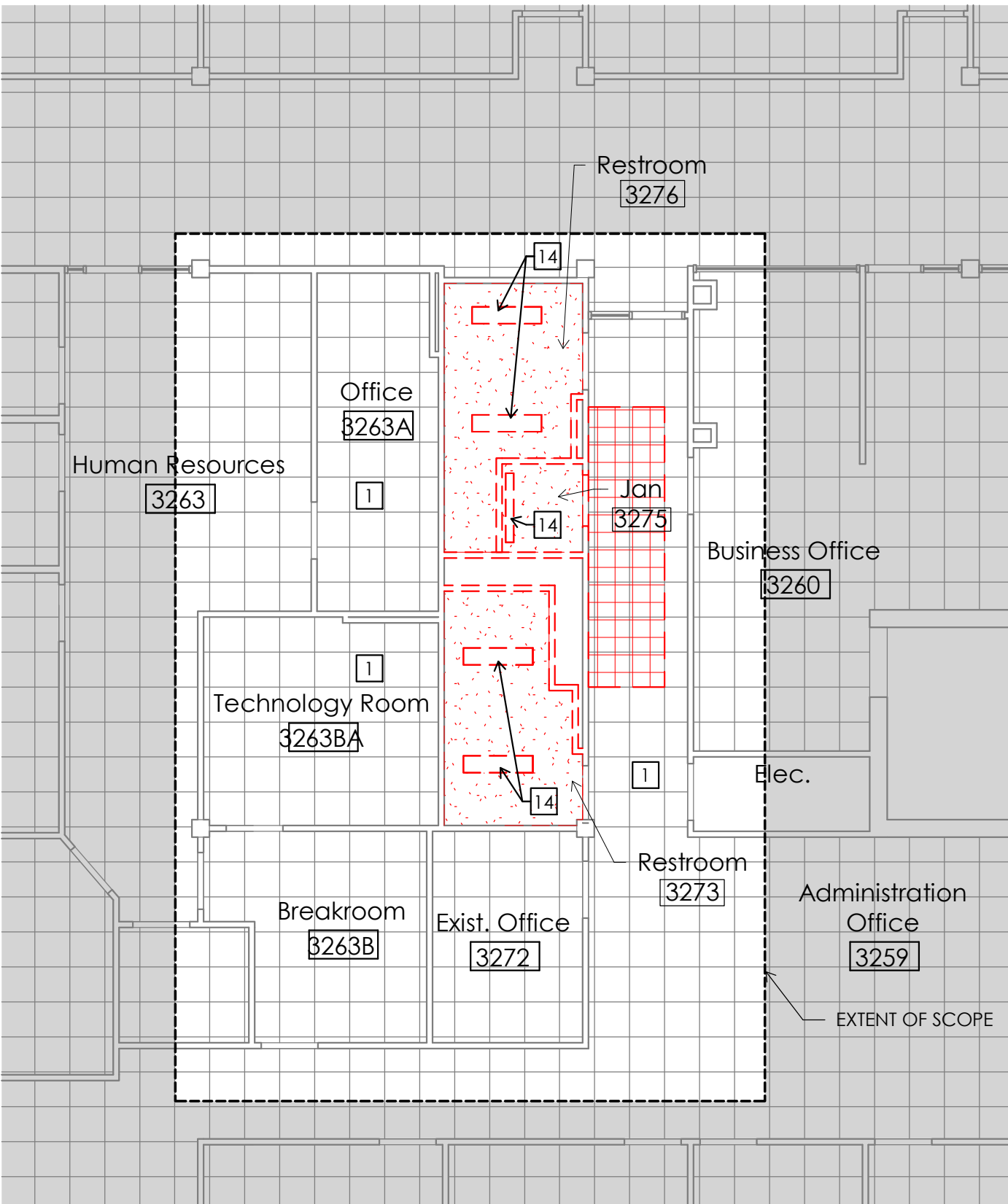
- ALL GYP. BD. CEILINGS TO BE INSTALLED @ EXISTING CEILING HEIGHT.
- REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND NOTES.
- REFER TO MECHANICAL FOR SUPPLY AND RETURN REGISTER LOCATIONS.
- PROVIDE ACCESS PANEL(S) TO MEP EQUIPMENT (VALVES, VAV FILTERS, ETC.) AS NEEDED. SIZE PANEL AS NEEDED FOR ACCESS AND CONFIRM FINAL LOCATION WITH ARCHITECT.

RCP NOTES:

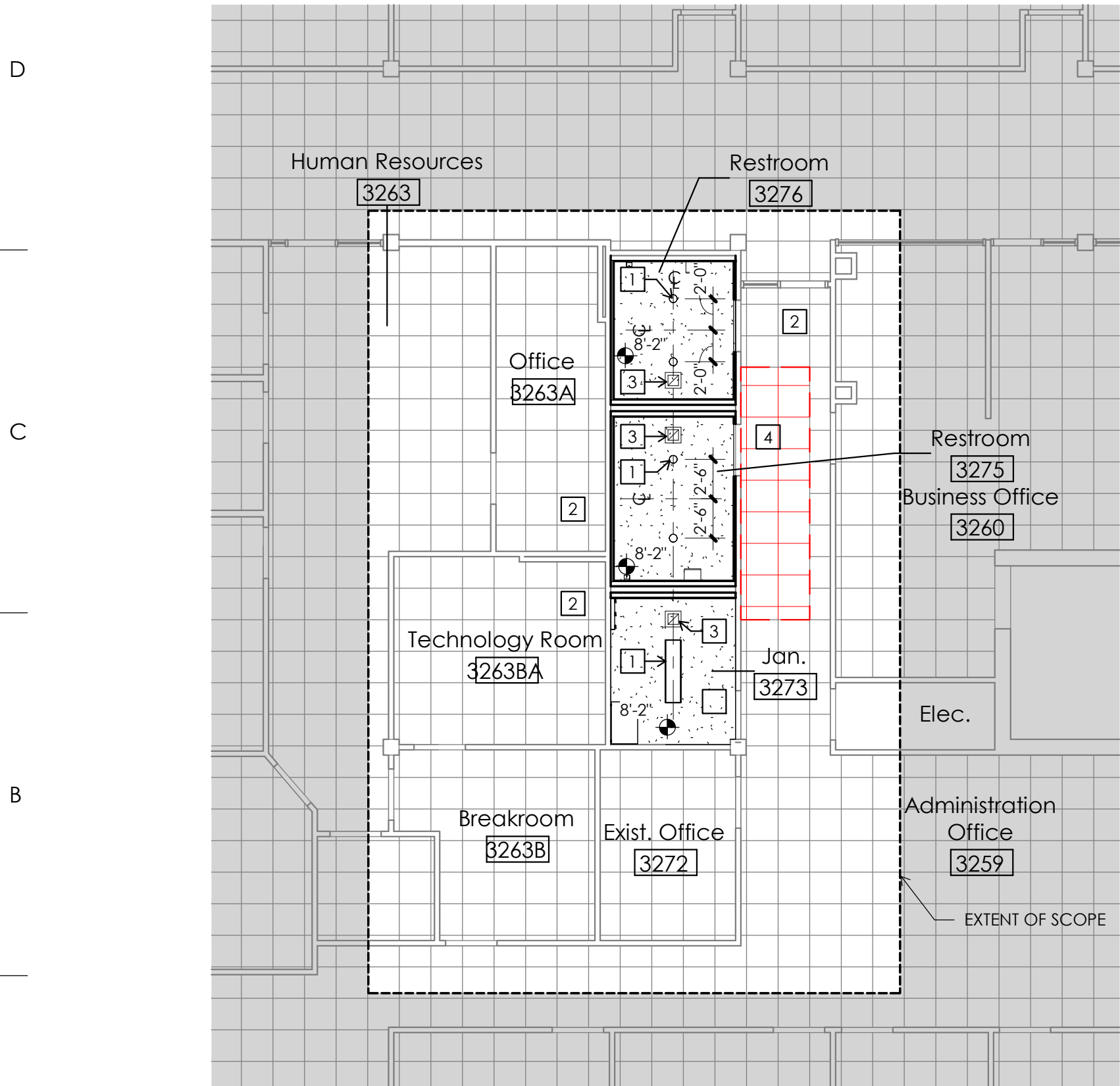
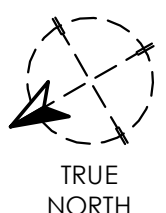
- 1 NEW LIGHT FIXTURE(S). REFER TO ELECTRICAL DRAWINGS.
- 2 PROTECT EXISTING CEILING FINISHES, FIXTURES AND EQUIPMENT INDICATED TO REMAIN.
- 3 EXHAUST FAN. REFER TO MECHANICAL DRAWINGS.
- 4 PROVIDE NEW CEILING TILES & SUSPENDED GRID COMPONENTS AS NECESSARY TO REPAIR CEILING TO LIKE NEW CONDITION FOLLOWING THE INSTALLATION OF NEW MECHANICAL EQUIPMENT COMPONENTS ABOVE.

RCP LEGEND:

NEW GYP. BD. CEILING OVER NEW METAL FRAMING, PAINT PER FINISH SCHEDULE
EXISTING ACOUSTIC CEILING GRID TO REMAIN



A5 SECOND FLOOR RCP DEMO
1/8" = 1'-0"



A10 SECOND FLOOR RCP
1/8" = 1'-0"



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PLANS

A1.01



A1.02

ELECTRICAL SPECIFICATIONS

SECTION 260000 - ELECTRICAL

1. GENERAL ELECTRICAL REQUIREMENTS

- A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.
- B. Wiring of Mechanical Equipment

- 1) Provide all raceways & power wiring for all division 23 equipment requiring electrical connections, including, but not limited to, pumps, water heaters, & HVAC equipment, & all line voltage control & interlock wiring not provided under division 23. Connect per manufacturers' wiring diagrams. Coordinate with division 23 for disconnects furnished w/ equipment, & provide all disconnect switches as required. After installing wiring, verify that each motor load has correct phase rotation.
- 2) Verify actual "maximum overcurrent protection" (MOCP) device ratings & "minimum circuit ampacity" (MCA) for each conductor size for mechanical equipment from equipment nameplate. Base electrical installations on actual required ampereages, which may vary somewhat from conductor & equipment sizes shown on drawings; however, in no case, reduce size of conductors indicated on drawings without authorization from engineer. Provide properly sized electrical wiring & equipment without extra cost to owner. Notify engineer of all changes required in electrical installation due to equipment variances so that effects on feeders, branch circuits, panelboards, fuses & circuit breakers can be checked prior to purchasing & installation. Be responsible for coordinating w/ division 23 to verify actual ampacities & correct sizes of all conductors & overcurrent protective devices for all equipment, & correct overload heaters for all motors, when starters are provided under division 23.

C. Wiring of Thermostats, Time, & Temperature Controls

- 1) Provide all raceways, power wiring, & line-voltage control and interlock wiring not provided under division 23, for all thermostats, temperature control devices, & controls, including, but not limited to, night-stats, water heater interlocks, time switches & override timers. See mechanical drawings for locations & temperature control diagrams. Low-voltage conductors for thermostats & temperature control system may be run exposed above finished accessible ceilings, if approved & listed for this purpose, but shall be installed in conduit within walls & where exposed in work areas.
2. CONDUIT & CONDUCTORS
- A. Follow circuiting shown on plans. Use no conduit smaller than 3/4" & no conductors smaller than #12 ga. Unless noted otherwise.
- B. Conductors #10 and smaller shall be solid.
- C. If no conductor size is indicated on drawings for branch circuit, provide conductors & conduit sized per NFPA 70 & based on indicated branch circuit overcurrent protective device (OCPD) rating & number of poles.
- D. Wire shall be in non-flexible metallic conduit (EMT, IMC or RMC) for:
- 1) All circuits & feeders greater than 30A.
- 2) Kitchen circuits.
- 3) Home runs.

- E. MC cable acceptable for branch convenience circuits & lighting circuits. Do not daisy chain light fixtures. Provide cable whips of sufficient lengths to allow for relocating each light fixture within 5-foot radius of its installed location, but not exceeding 6 feet in unsupported lengths.
- 1) Do not use MC cable for following: homeruns to panelboards, where exposed to view or damage, hazardous locations, in concrete, block walls or wet locations, & when disallowed by local AHJ or landlord.
- 2) Provide health care rated MC for patient care areas (as defined by the NEC) when not in conduit.

- F. Lighting & receptacle circuit conductors shall be copper THHN-THWN-2 600 volt, 75 deg c, color coded as described under applicable codes. No romex, plastic flex tubing etc permitted. Light fixture wire insulation shall have temp rating not less than individual fixture manufacturers recommended rating.
- G. Circuits w/ no. 8 or larger conductors, motor circuits, power & feeder circuits & building service feeders shall be copper THHN-THWN-2 600 volt, 75 deg c.
- H. All materials used to terminate, splice or tap conductors designed for, properly sized for, & UL listed for specific application & conductors involved, & installed in strict accordance w/ manufacturer's recommendations, using the manufacturer's recommended tools.
- I. Where wiring is indicated as installed, but connection is indicated "future" or "by other division, trades, or contracts", leave minimum 3-foot "pigtail" at box, tape ends of conductors, & cover box.
- J. Number of conductors in specific raceway "home run" is indicated w/ cross lines (tick marks) on each "circuit run" on drawings. In general, direction of branch circuit "home run" routing is indicated on drawings, complete w/ circuit numbers & panelboard designations. Continue all such "home run" wiring to designated panelboard, as though "circuit runs" were indicated in their entirety.
- K. Wiring shall have insulation of proper color to match NEC color code. In larger sizes, where properly colored insulation is not available, use vinyl plastic electrical tape of appropriate color around each conductor at all termination points, junction & pull boxes.

3. GROUNDING

- A. Supplement grounded neutral of secondary distribution system w/ equipment grounding system, installed so that metallic structures, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, portable equipment & other conductive items operate continuously at ground potential & provide low impedance path for ground fault currents.
- B. System shall comply w/ national electrical code, drawings & as specified.
- C. Provide equipment ground bus in base of low voltage, switchgear brazed or otherwise adequately connected by an approved method to ground rods.
- D. Provide in conduit green insulated copper ground conductor to main metallic water service entrance & connect by means of adequate ground clamps.
- E. Equipment grounding conductors for branch circuit home runs shown on drawings shall indicate an individual & separate ground conductor for that branch circuit which shall be terminated at branch circuit panelboard, switchboard, or other distribution equipment.
- F. Provide low voltage distribution system w/ separate green insulated equipment grounding conductor for each single or three-phase feeder. Single phase 120 volt branch circuits for lighting & power shall consist of phase & neutral conductors & green ground conductor installed in common conduit which shall serve as grounding conductor.
- G. Grounding conductors shall be as shown on plans or if not specifically shown shall be no smaller than that required by NEC.

4. RACEWAY INSTALLATION

- A. Install all conductors & cable in raceways continuous without taps or splices. Splice or tap only in approved boxes & enclosures w/ approved solderless connectors, or crimp connectors & terminal blocks for control wiring, & keep to minimum required. Insulate all splices, taps, & joints as required by codes.
- B. Install all circular raceways concealed above suspended ceilings or concealed in walls or floors wherever possible except where otherwise indicated.
- 1) All conduit, junction boxes, etc. Above ceilings shall be supported from structure. Pipe sleeves, hangers & supports shall be furnished & set & contractor shall be responsible for proper & permanent locations.
- 2) Support all conductors & cables in vertical installations, as required by NFPA 70, by installing cable supports or plug-type conduit riser supports, or wire-mesh safety grips.
- C. Conduit installed below grade shall be PVC conduit meeting NEMA standards & UL listed for underground & exposed (UV-resistant) use.
- 1) Schedule 40 PVC acceptable for most underground installations.
- 2) Schedule 80 PVC shall be used where conduit is exposed above grade or otherwise susceptible to damage, or where otherwise required by code for mechanical protection.
- 3) For underground runs of over 300' and/or more than (2) 90° elbows, provide GRS radius bends & risers as conduits rise above grade or above floor slab.
- D. Metal raceway below grade or exposed to weather or other hazardous conditions shall be GRS.
- 1) Provide any GRS installed below grade w/ corrosion resistant bonded-plastic or approved mastic coating. This shall include 90-degree elbow below grade & entire vertical transition to above grade.
- E. Provide interlocking spacers for multiple runs of UG conduits in same trench.
- F. All other raceway may be EMT where approved by local code. Use compression type fittings for EMT, w/ all fittings UL listed for environment in which they are used.
- G. Use FMC for final connection to each motor & transformer, & to any device that would otherwise transmit motion, vibration, or noise. Use LFMC where exposed to liquids, vapors or sunlight.
- 1) Provide all FMC & LFMC w/ an insulated bonding conductor.
- H. Install raceways parallel & perpendicular to building lines.
- I. Install raceways to requirements of structure & to requirements of all other work on project. Install raceway to clear all openings, depressions, pipes, ducts, reinforcing steel, & other immovable obstacles. Install raceways set in forms for concrete structure in such manner that installation will not affect strength of structure.
- J. Install raceways continuous between connections to outlets, boxes & cabinets w/ minimum possible number of bends & not more than equivalent of four

90-degree bends between connections. Use manufactured elbows for all 45- & 90-degree bends, unless approved by engineer in advance. Make other bends smooth & even & without flattening raceway or flaking galvanizing or enamel. Radii of bends shall be as long as possible & never shorter than corresponding trade elbow. Use long radius elbows where necessary, indicated, or both.

K. Securely fasten raceways in place w/ approved straps, hangers & steel supports as required. Attach raceway supports to building structure. Hang single raceways for feeders w/ malleable split ring hangers w/ rod & turnbuckle suspension from inserts spaced not over 10 feet apart in construction above.

L. Clamp groups of horizontal feeder raceways to steel channels that are suspended from inserts spaced not over 10 feet apart in construction above. Securely clamp vertical feeder raceways to structural steel members attached to structure. Install cable clamps for support of vertical feeders where required. Add raceway supports within 12 inches of all bends, on both sides of bends. Do not support raceways from suspended ceiling components.

M. Ream raceway ends, thoroughly clean raceways before installation, & keep clean after installation. Plug or cover openings & boxes as required to keep raceways clean during construction & fish all raceways clear of obstructions before pulling conductors wires. Provide raceways of ample size for pulling of wire & not smaller than code requirements & not less than 3/4" unless indicated otherwise on drawings.

N. Protect all raceway installations against damage during construction. Repair all raceways damaged or moved out of line after roughing-in to meet engineer's approval without additional cost to owner.

O. Align & install true & plumb all raceway terminations at panelboards, switchboards, motor control equipment & junction boxes.

P. Install approved expansion/deflection fittings where raceways pass through (if embedded) or across (if exposed) expansion joints.

Q. Install pull wire in each empty raceway that is left for installation of conductors or cables under other divisions or contracts. Use polypropylene or monofilament plastic line. Leave min. 24" slack at each end.

R. Make all joints & connections in manner that will ensure mechanical strength & electrical continuity.

S. Effectively seal raceways, by installing conduit fitting at boundary of two spaces, & filling it w/ an approved pliable material, after conductors or cables have been installed & tested, whenever raceways pass from non-cooled to cooled spaces or transition from outside facility or enclosure to inside, whether buried or exposed.

5. BUSHINGS & LOCKNUTS

- A. Rigidly terminate conduits entering sheet metal enclosures to enclosure w/ bushing & locknut on inside & locknut or an approved hub on outside. Conduit shall enter enclosure squarely.
- B. Provide bushings & locknuts made of galvanized malleable iron w/ sharp, clean-cut threads. Where EMT enters box, provide approved EMT compression connectors.
- C. Use insulated, grounding, or combination, bushings wherever connection is subject to vibration or moisture when required by NFPA 70, or both.

6. JUNCTION & OUTLET BOXES

- A. All boxes including light fixture, switch, receptacle, & similar outlet boxes: National Electrical, Appleton, Steel City, Raco, or approved equal, galvanized steel knockout boxes, suitable in design to purpose they serve & space they occupy. Size as required for specific function or as required by NFPA 70, whichever is larger.
- 1) Lighting fixture boxes in ceilings shall not be less than 4" octagonal knockout type.
- B. Set all outlet boxes in walls, columns, floors, or ceilings so they are flush w/ finished surface, accurately set, & rigidly secured in position. Provide plaster rings, extension rings &/or masonry rings as req'd for flush mounting. Provide approved cast outlet boxes, w/ hubs & weatherproof covers, in all areas subject to damp, wet, or harsh conditions.
- C. Coordinate locations of outlet boxes. Outlets are only approx located on small scale drawings. Use great care in actual location by consulting various large scale detailed drawings used by other division trades, & by securing definite locations from architect.
- D. All outlets, shall be mounted w/ bottom at 16" AFF & switches w/ bottom at 44" AFF floor unless noted otherwise on plans. Refer to arch for other required elevations & cabinetry coordination.

7. ELECTRICAL IDENTIFICATION

- A. Manufactured labels for each Panelboard & Transformer. Typewritten panel schedules mounted in panels. Where electrical equipment is installed as service entrance equipment, contractor shall furnish & install nameplate listing the following: Equip Short-Circuit Current Rating in Amps (RMS SYM), as indicated on the drawings. Whether or not equipment is fully or series-rated. Available Fault Current in Amps. Contractor shall perform available fault current calculation to obtain available fault at Service Equipment. Date fault current calculations were performed.
- B. Printed tape style label for each receptacle indicating Panel & Ckt #.
- C. Manufactured labels for all disconnect switches indicating equipment served.
- D. Branch circuits - identify each circuit w/ wire markers when enclosure label & wire colors do not provide enough information to identify each circuit without tracing. Feeders & branch circuit home runs w/ wire marker w/ Panel & Ckt #. Box covers above lay-in ceilings neatly marked w/ indelible marker.
- E. Fire alarm - nameplate on each fire alarm terminal cabinet. Label all wiring.

8. DIGITAL LIGHTING CONTROLS

- A. Provide DLM systems consisting of lighting control panels, room controllers, motion sensors, daylight sensors, & other other controls as necessary to achieve lighting switching & dimming control indicated on the drawings. Coordinate all interfaces, dimming styles etc with lighting fixtures and other loads controlled.
- B. Provide all interconnecting wiring, controls, programming & owner training for the system(s).
- C. Provide systems by: Cooper, Hubbell, Leviton, Phillips, Sensor Switch, Watt Stopper, Lutron, nLight.
- D. Execution:

- 1) Calibrate all sensor time delays & sensitivity for proper detection of occupants & energy savings. Adjust time delays.
- 2) Provide documentation of room by room system configuration including: sensor parameters, time delays, sensitivities, & daylighting setpoints, sequence of operation, load parameters.
- 3) Post start-up tuning - 30 days after occupancy contractor shall adjust sensors to meet the owner's requirements. Provide a detailed report to the architect / owner of post start-up activity.

9. CIRCUIT BREAKERS IN EXISTING PANELBOARDS

- A. Provide new circuit breakers, for installation in existing panelboards, of same manufacturer, type & short circuit current interrupting ratings as existing panelboard circuit breakers.
- B. Circuit breakers shall provide AFCI and/or GFCI protection where required by code.

10. WIRING DEVICES

- A. Color of devices as directed by architect.
- B. Provide clear label with black text on each coverplate for associated circuit #.
- C. Convenience outlets:
- 1) Spec grade 20 amp duplex w/ ground & SS wall plates. Other outlets shall be verified w/ equipment suppliers for proper NEMA configurations. Provide GFCI rated devices where indicated & as req'd per code. Provide weather resistant receptacles in all damp or wet locations.
- 2) GFCI Receptacles:
- a. Bathrooms / Locker Rooms
- b. Where located within 6'-0" of a sink.
- c. Unfinished areas.
- 3) Tamper-Resistant Receptacles:
- a. All locations within the project shall have tamper-resistant receptacles
- i. Business Offices
- ii. General Corridors
- iii. Exceptions:
- i. Receptacles located more than 7' above the floor.
- ii. Receptacles located behind an appliance that is not easily moved.
- 4) Equivalent devices by Cooper/Eaton, Hubbell, Leviton, Pass & Seymour/Legrand

D. Switches:

- 1) Light switches - spec grade 20 amp toggle switches w/ SS wall plates.
- 2) Wall motion switches - spec grade, PIR, override.
- 3) Ceiling motion switches - spec grade, dual technology, model as req'd by room configuration, all necessary power packs & relays.
- 4) Wall motion switches (bathtub) - dual relay, spec grade, PIR, 2nd relay for operation of exhaust fan delay.
- 5) Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EM/RFI suppression filters. Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472. 600W or 1200W as required by load.

Incandescent Lamp Dimmers: 120 V; control shall follow square-law dimming curve. On-off switch positions shall bypass dimmer module.

LED Dimmers: Modular; compatible with dimming drivers in fixture(s); if other than 0-10V dimming is provided, verify dimmer is compatible with driver for full range of dimming (100-10%).

6) Equivalent devices by Leviton, Bryant, Hubbell, Wattsstopper, Lithonia, Sensor Switch.

11. DISCONNECT (SAFETY) SWITCHES

A. Disconnect (safety) switches: Square D, Siemens, Eaton, or GE fused or non-fused (as indicated on drawings or required) NEMA KS1, heavy duty, externally operated, visible-blade safety switches. NEMA enclosure type indicated on drawings or suitable for environment in which installed. Based on fusible switch & fuse sizes indicated, include class R, J, or L fuse provisions as applicable.

B. Where indicated, provide fusible switches permanently labeled as suitable for use as service entrance equipment, w/ integral & separate neutral & ground assemblies, suitable for sizes of conductors indicated. Do not double-lug any terminations not specifically listed as suitable for more than one conductor.

C. Provide switches where not furnished w/ starting equipment, at all other points required by NFPA 70, & where indicated on drawings.

D. Provide printed label for each disconnect as to load served.

12. LUMINAIRES, LAMPS & BALLASTS

- A. Refer to lighting fixture schedule plans for fixture types.
- B. Equivalent luminaires by Hubbell, Infinity, Lithonia, Williams, Eaton [Cooper].
- C. Fluorescent Fixtures:
- 1) Lamps shall be type recommended by fixture manuf.. Lamp none above manuf recommended max wattage. Color temperature shall be coordinated throughout project, with generally 4000k interior lamps and min 85 CRI. Equivalent lamps by G.E., Venture, Phillips Or Sylvania.
- 2) Ballasts - Fluorescent - electronic, <20%THD, Equivalent by Advance, G.E., Motrolra, Or Magnetek.

D. LED Fixtures:

- 1) Lamps & modules: Philips, General Electric, Osram/Sylvania, Cree, Nichia.
- 2) LED components, lamps, drivers, and fixtures shall comply with: PCC 47 CFR Part 15, UL 8750, ANSI/NEMA Standards C78.377, NEMA SSL-1, C82.77, IESNA Standards TM-16-05, RP-16, LM-79, LM-80 and TM-21.
- 3) Drivers shall be integral to the fixture unless otherwise shown or specified. Coordinate dimming drivers with any dimming DLM or other systems.
- E. Emergency ballasts/drivers/batteries shall be Bodine, Iota. Coordinate voltages and outputs for min. 90 minute operation with fixtures scheduled and controls indicated and provided.
- F. Execution:

- 1) Provide lighting fixtures w/ lamps & accessories req'd for hanging. Coord mounting of lighting fixtures w/ architect & G/C. Additional fixture supports shall be provided by E/C. Supports shall comply w/ latest edition of NEC. Provide lighting fixture securing clips as required. Consult arch plans for ceiling types & provide surface & recessed lighting fixtures w/ appropriate mounting components & accessories.
- 2) Fixtures mounted in fire rated ceilings shall be provided & installed w/ fire rated enclosures to maintain ceiling integrity.
- 3) Poles & support components: comply w/ AASHTO LTS-4. Provide steel poles in color as specified or selected by architect. Provide bolt covers. Provide concrete base for pole & ground rod.

13. ADJUSTING, ALIGNING & TESTING

- A. Adjust, align, & test all electrical equipment on this project provided under this division & all electrical equipment furnished by others for installation or wiring under this division for proper operation. Test all systems & equipment according to requirements in NETA ATS (latest edition) & all additional requirements specified.
- B. In following sections. Maintain following on project premises at all times: true RMS reading voltmeter, true RMS reading ammeter, & megohmmeter insulation resistance tester. Provide test data readings as requested or as required by engineer.

14. VOLTAGE DROP

- A. Electrical contractor is responsible for upsizing all branch circuit and feeder conductors as required to comply with voltage drop requirements as outlined in the NEC.
- B. Upsize wire on 120v circuit homeruns as listed below unless otherwise shown on plans:
- 1) Less than 100 feet in conductor length: #12 phase/neutral conductors & #12 ground
- 2) 100 to 150 feet in conductor length: #10 phase/neutral conductors & #10 ground
- 3) Greater than 150 feet in conductor length: #8 phase/neutral conductors & #8 ground

15. SYSTEM START UP

- A. Prior to starting up electrical systems:
- 1) Check all components & devices.
- 2) Lubricate items accordingly.
- 3) Tighten screws & bolts for connectors & terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486a & UL 486b.
- 4) Check & record building's service entrance voltage, grounding conditions, grounding resistance, & proper phasing.
- B. Replace all burned-out lamps & lamps used for temporary construction lighting in permanent light fixtures.
- C. After all systems have been inspected & adjusted, confirm all operating features required by drawings & specifications & make final adjustments as necessary.

END OF DIVISION 260000

SECTION 270000 - COMMUNICATIONS

1. GENERAL ELECTRICAL REQUIREMENTS

- A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.

2. TELECOMMUNICATIONS SYSTEMS PROVISIONS

- A. Provide incoming telephone and/or data service raceways as indicated on drawings or as required by serving telecommunications company.
- B. Provide 3/4-inch thick plywood board, fire-retardant- treated & stamped FRT, securely anchored to wall, at location & of size as indicated on drawings.
- C. Provide flush mounted telephone and/or data outlet boxes w/ 3/4-inch EMT stub-up concealed to accessible ceiling space at locations as indicated on drawings.
3. COMMUNICATIONS SYSTEMS
- A. Provide engineering, labor, materials, apparatus, tools, equipment, and transportation as required to make a complete working telecommunication cabling system installation as specified and indicated.
- B. Provide a complete telecommunications infrastructure cabling system including:

- 1) Support systems in the main data room and telecommunication rooms.
- 2) Inside plant UTP station cabling, terminations, and outlets.
- 3) Cable identification tags and system labeling.
- 4) Conduits and boxes.
- 5) Telecommunications grounding system.
- 6) Submittals.
- 7) Testing.
- 8) As-built documents.
- 9) Warranty.

END OF DIVISION 270000

SECTION 280000 - SAFETY & SECURITY

1. GENERAL ELECTRICAL REQUIREMENTS

- A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.

2. EXISTING FIRE ALARM SYSTEM MODIFICATIONS

- A. Provide following new equipment, compatible w/, or of same manufacturer as, existing fire alarm control panel & system, at locations indicated on drawings, as required by building codes, landlord, or all three, & connect to existing fire alarm control panel:
- 1) Additional initiating devices, indicating appliances, & interconnecting circuits.

- 2) Additional zone modules required by new zoning.
- 3) New amplifiers & other equipment that may be required to incorporate new initiating devices & indicating appliances into existing system.
- 4) A new zone map, including all existing zones & all new zones, framed, mounted under glass, & installed adjacent to fire alarm control panel. Horn/strobes shall meet all requirements of ADA.

B. Install all wiring in raceway.

C. Where acceptable to AHJ, plenum rated cables may be used above suspended accessible ceilings.

D. Execution:

- 1) Submit shop drawings w/ wiring diagrams & battery calcs for approval to Fire Marshal & AHJ.
- 2) Coordinate to provide power & shutdown or operation of fire/smoke dampers, door hold opens, power to door locks & access control & other similar systems.
- 3) Installed & tested per NFPA 72 & applicable sections of NFPA 70. Provide complete fire alarm system as described herein & shown to be wired, connected, & in first class condition. Include sufficient control units(s), annunciator(s), manual stations, automatic fire detectors, smoke detectors, audible & visible notification appliances, wiring, terminations, electrical boxes, & all necessary material for complete operating system.

END OF DIVISION 280000



Kansas Certificate of Authority
#A-516

MEP Engineer
PKMR Engineers
State Certificate of Authority
#E-1682
13300 West 98th St.
Lenexa, KS 66215
913.492.2400

JOB NUMBER 22060J

KCKCC RESTROOM REMODEL

7140 STATE AVE.,
KANSAS CITY, KS 66112

KANSAS CITY KANSAS COMMUNITY COLLEGE
707 Minnesota Ave., Suite 506, Kansas City, Kansas 66101 Tel. 816.300.4101

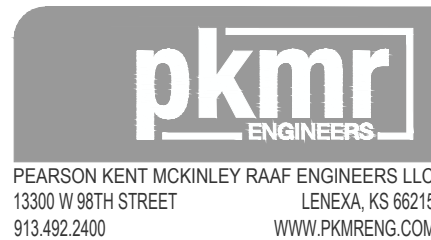
ISSUE FOR BID AND PERMIT

ISSUE DATE 11/07/2025
No. Description Date

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MEP
SPECIFICATIONS

MEP0.03



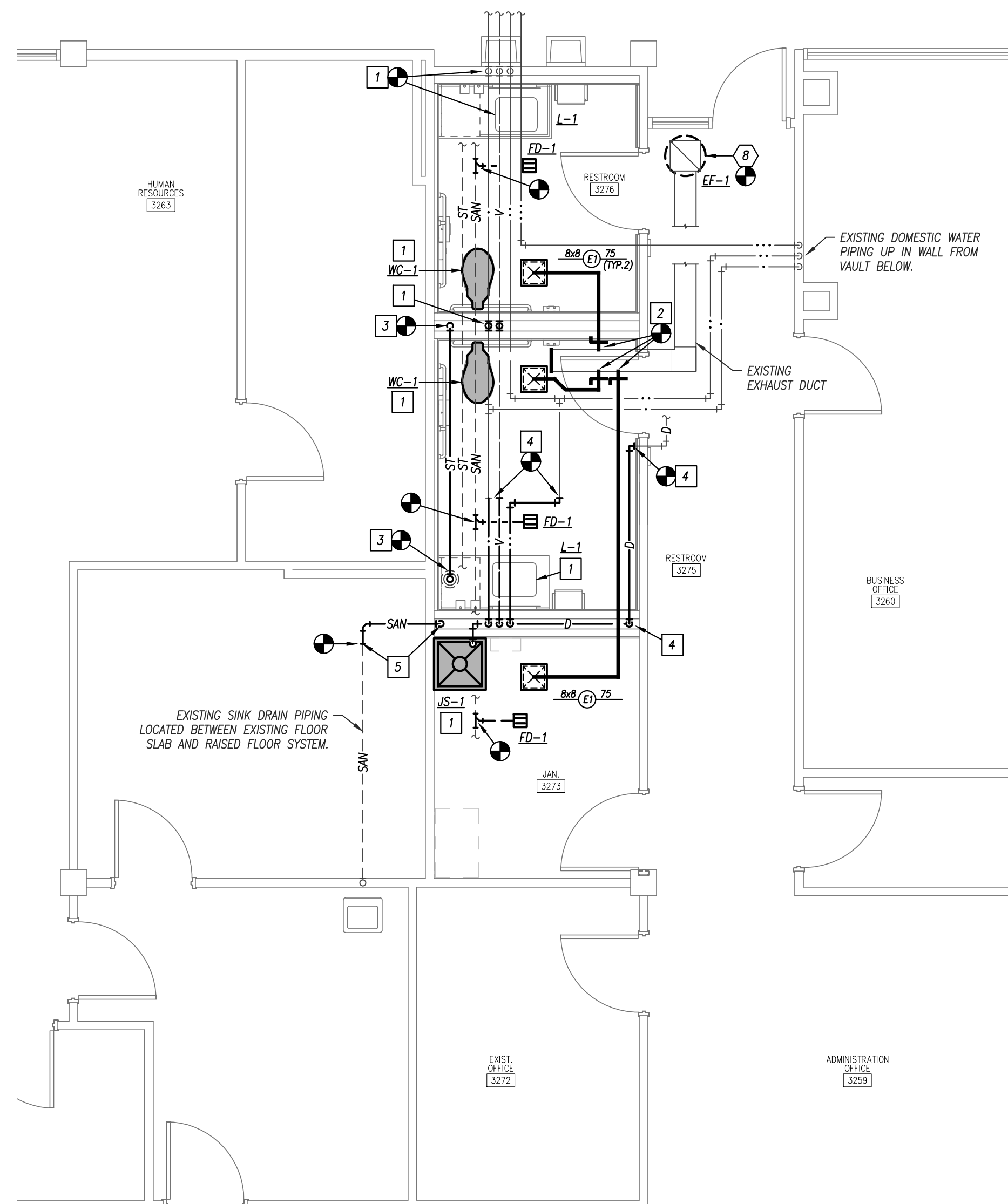
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
13300 W 98TH STREET
913.492.2400
LENEXA, KS 66215
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1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. PRIOR TO DEMOLITION OF SLAB, SCOPE AND FIELD VERIFY EXACT LOCATION, DEPTH, AND ROUTING OF EXISTING SANITARY AND STORM PIPING BELOW SLAB.

- ① DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PLUMBING ROUGH-IN AS NEEDED TO COMPLETE REMODEL INDICATED.
- ② DISCONNECT AND REMOVE EXISTING EXHAUST GRILLES AND ASSOCIATED DUCTWORK AS NEEDED.
- ③ EXISTING STORM PIPING TO BE RE-ROUTED TO NEW CHASE LOCATION.
- ④ EXISTING DRAIN PIPING TO BE RE-ROUTED TO NEW CHASE AND JANITOR'S SINK.
- ⑤ DISCONNECT AND REMOVE EXISTING BREAK ROOM SINK DRAIN LINE AND LIFT PUMP LOCATION IN ADJACENT RAISED FLOOR SPACE AS NEEDED TO BE RE-ROUTED TO NEW NEW PLUMBING CHASE.
- ⑥ DISCONNECT AND REMOVE EXISTING PLUMBING ROUGH-IN. CAP EXISTING SANITARY BELOW SLAB AS CLOSE TO THE SANITARY MAIN AS POSSIBLE.
- ⑦ DISCONNECT AND REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AS NEEDED TO REPLACE WITH NEW. EXISTING FAN CURB TO BE REUSED. FIELD VERIFY EXIST LOCATION, DUCT ROUTING, AND FAN CHARACTERISTICS PRIOR TO DEMO.

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
3. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
4. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
5. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
6. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
7. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
8. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
9. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOR RM OF FIXTURE.
10. NOT ALL INTERIOR CLEANOUTS ARE SHOWN. FOR DRAWING CLARITY, CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (SEE GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
11. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY A UL LISTED TRAP SEAL DEVICE.

- 1 FURNISH AND INSTALL NEW PLUMBING FIXTURE. RE-ROUTE AND MODIFY EXISTING PLUMBING ROUGH-IN AS NEEDED TO CONNECT TO FIXTURE. CONNECT TO EXISTING SANITARY BELOW SLAB.
- 2 CONNECT TO EXISTING EXHAUST DUCT. FIELD VERIFY EXACT LOCATION AND SIZE OF EXHAUST DUCT.
- 3 RE-ROUTE ROOF DRAIN / STORM PIPING TO NEW PLUMBING CHASE AND RECONNECT TO EXISTING STORM PIPING BELOW SLAB. FIELD VERIFY TO MATCH EXISTING PIPE SIZE.
- 4 EXTEND EXISTING DRAIN PIPING TO NEW CHASE. ROUTE DRAIN PIPING TO DISCHARGE INTO JANITOR'S SINK.
- 5 RE-ROUTE EXISTING BREAK ROOM SINK DRAIN PIPING TO NEW CHASE AND CONNECT TO SANITARY MAIN BELOW SLAB.
- 6 EXTEND PLUMBING PLUMBING TO NEW PLUMBING CHASE AND CONNECT TO PLUMBING FIXTURES.
- 7 ROUTE 1-1/2" COLD WATER AND 2" VENT DOWN INTO CHASE FOR CONNECTION TO FIXTURES.
- 8 FURNISH AND INSTALL NEW EXHAUST FAN. EXHAUST FAN TO MATCH EXISTING FAN TO THE GREATEST EXTENT POSSIBLE. FIELD VERIFY EXACT LOCATION.


MECHANICAL PLAN
 1/4" = 1'-0"

H

PIPING MATERIAL & INSULATION SCHEDULE

PIPING				ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
SYSTEM	SIZE	TYPE/SCHED	MATERIAL				TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-1-1/4"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOMESTIC HOT WATER & HW RETURN	1-1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
STORM DRAIN ABOVE GRADE IN PLENUMS	3"-12"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
STORM DRAIN BELOW GRADE	3"-16"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
NOTES 1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50. 2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED IECC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM. 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.								

G

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	FINISH COLOR	REMARKS
EXHAUST											
E1	TITUS	350FL	ALUMINIUM	SQUARE CEILING	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	SURFACE	AS INDICATED	AS INDICATED	NO	WHITE	1,2,3
REMARKS: 1. PROVIDE ALL DIFFUSERS REGISTERS AND GRILLES WITH ALL NECESSARY MOUNTING HARDWARE. PROVIDE WITHOUT SCREWHOLE WHEN INSTALLED IN LAY-IN CEILINGS. 2. VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS. 3. PROVIDE ROUND NECK ADAPTER WHERE SHOWN WITH ROUND CONNECTION.											

F

EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	FAN DATA							ELECTRICAL	CONTROL	REMARKS
				CFM	E.S.P. (IN)	BHP	HP	DRIVE	SONES	RPM			
EF-1	COOK	90C15DL	ROOF DOWNBLAST	225	0.50	73 WATTS	1/8	DIRECT	5.5	1,505	120V / 1PH	TIMECLOCK	1,2,3,4,5
REMARKS: 1. FAN SELECTED BASED ON BEST INFORMATION AVAILABLE. FIELD VERIFY EXISTING CONDITIONS AND PROVIDE FAN SELECTION TO MATCH EXISTING CONDITIONS, CFM, HP, ELECTRICAL ETC. 2. PROVIDE WITH SOLID STATE FAN SPEED CONTROLLER MOUNTED AT FAN. 3. PROVIDE WITH BIRDSCREEN. 4. FAN TO BE CONTROLLED BY A MECHANICAL TIMECLOCK PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED IN THE JANITOR'S CLOSET BY THE ELECTRICAL CONTRACTOR. 5. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS AND BE OFF DURING UNOCCUPIED HOURS.													

E

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C

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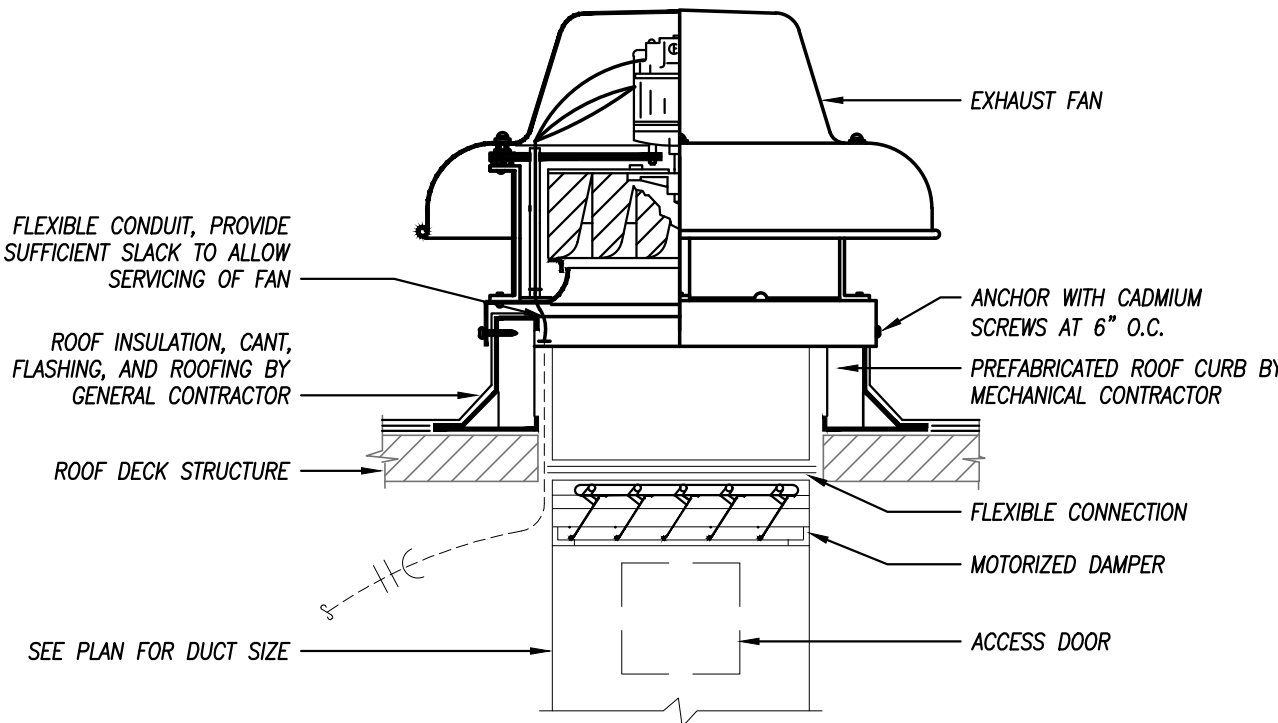
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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS AND TRIM	REMARKS	PLUMBING FIXTURE PIPE SIZES			
						WASTE	VENT	DCW	DHW
WC-1	CHURCH 9500C	OWNER FURNISH CONTRACTOR INSTALLED. ADA-COMPLIANT, 1.28 / 1.6 GALLON, FLOOR-MOUNTED FLUSH VALVE WATER CLOSET. TOP SPUD AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL. 16-1/2" HIGH. CONTRACTOR FURNISHED CONTRACTOR INSTALLED SEAT, WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPER. EXTERNALCHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN SOLIS 8111	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED EXPOSED WATER CLOSET FLUSH VALVE. EXPOSED WATER CLOSET FLUSH VALVE. PHOTOVOLTAIC/BATTERY POWERED CHROME-PLATED. HANDS FREE OPERATION. 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.28 / 1.6 GPF. VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MOUNTING HEIGHT PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ADA GUIDELINES.	6	4"	2"	1-1/4"	----
L-1	KOHLER CAXTON K-2210-G	CONTRACTOR FURNISHED CONTRACTOR INSTALLED LAVATORY SINK: ADA COMPLIANT 19-1/4" OVAL UNDERMOUNT WITH GLAZED UNDERSIDE, WHITE FINISH.	SLOAN OPTIMA EAF-275	CONTRACTOR FURNISHED CONTRACTOR INSTALLED LAVATORY FAUCET, DECK MOUNTED MID BODY FAUCET WITH 4-11/32" REACH, LAMINAR FLOW, POLISHED CHROME FINISH 1.0 GPM. INFRARED SENSOR OPERATION, SOLAR POWERED WITH BATTERY BACKUP. PROVIDE WITH 10 YEAR LIFESPAN BATTERIES.	1,2,3,4	2"	2"	1/2"	1/2"
JS-1	FIAT TSB-100	CONTRACTOR FURNISHED CONTRACTOR INSTALLED: JANITORS SINK: 24"x24"x12" PRECAST TERRAZO FLOOR SERVICE SINK. STAINLESS STEEL CAP AND 2 SIDE WALL TILING FLANGE. 3" STAINLESS STEEL CAST DRAIN AND STAINLESS STEEL STRAINER PLATE. PROVIDE STAINLESS STEEL WALL GUARDS, MOP BRACKETS, HOSE RACK.	CHICAGO FAUCET 897-CP	CONTRACTOR FURNISHED CONTRACTOR INSTALLED: C.P. SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 1/2" FLANGED FEMALE ADJUSTABLE ARMS WITH INTEGRAL STOPS. CAULK BETWEEN WALL AND FLANGE WITH GE SILICONE SEALANT.	----	3"	2"	1/2"	1/2"
FD-1	WADE 1100 FLOOR DRAIN	CAST IRON FLOOR DRAIN W/ FLANGE, SEEPAGE OPENINGS, CLAMPING COLLAR, ADJ. NICKEL BRONZE TOP, TRAP PRIMER TAP (PLUGGED), BOTTOM OUTLET.	----	PROVIDE WITH TRAP SEAL DEVICE. PROVIDE WITH 6" X 6" TOP.	----	2"	1-1/2"	----	----

- REMARKS:
- PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
 - PROVIDE CHROME-PLATED BRASS P-TRAP.
 - PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
 - INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1) ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SCALD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY.



EXHAUST FAN DETAIL

NOT TO SCALE

JOB NUMBER 22060J

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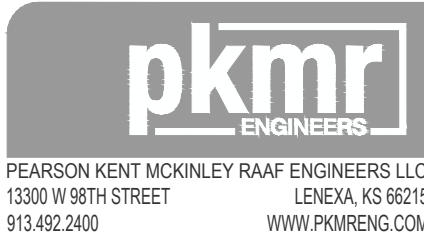
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MECHANICAL
SCHEDULES
& DETAILS

M2.01

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GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

- 1 REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, FIXTURES, ETC. MAINTAIN ALL EXISTING WIRING FOR CONNECTION TO NEW DEVICES.
- 2 ALL EXISTING LOW VOLTAGE CABLING TO BE REMOVED. COORDINATE AND CONFIRM ALL REQUIREMENTS WITH THE OWNER. ELEVATOR POTS LINE TO REMAIN AS EXISTING - RELOCATE TO NEW JANITOR CLOSET AND EXTEND AS REQUIRED.
- 3 REMOVE ELECTRICAL CONNECTION TO EXISTING EXHAUST FAN FOR DEMOLITION OF EXHAUST FAN. MAINTAIN ALL CIRCUITING FOR CONNECTION TO NEW EXHAUST FAN EF-1. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

GENERAL POWER NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

POWER PLAN KEYED NOTES

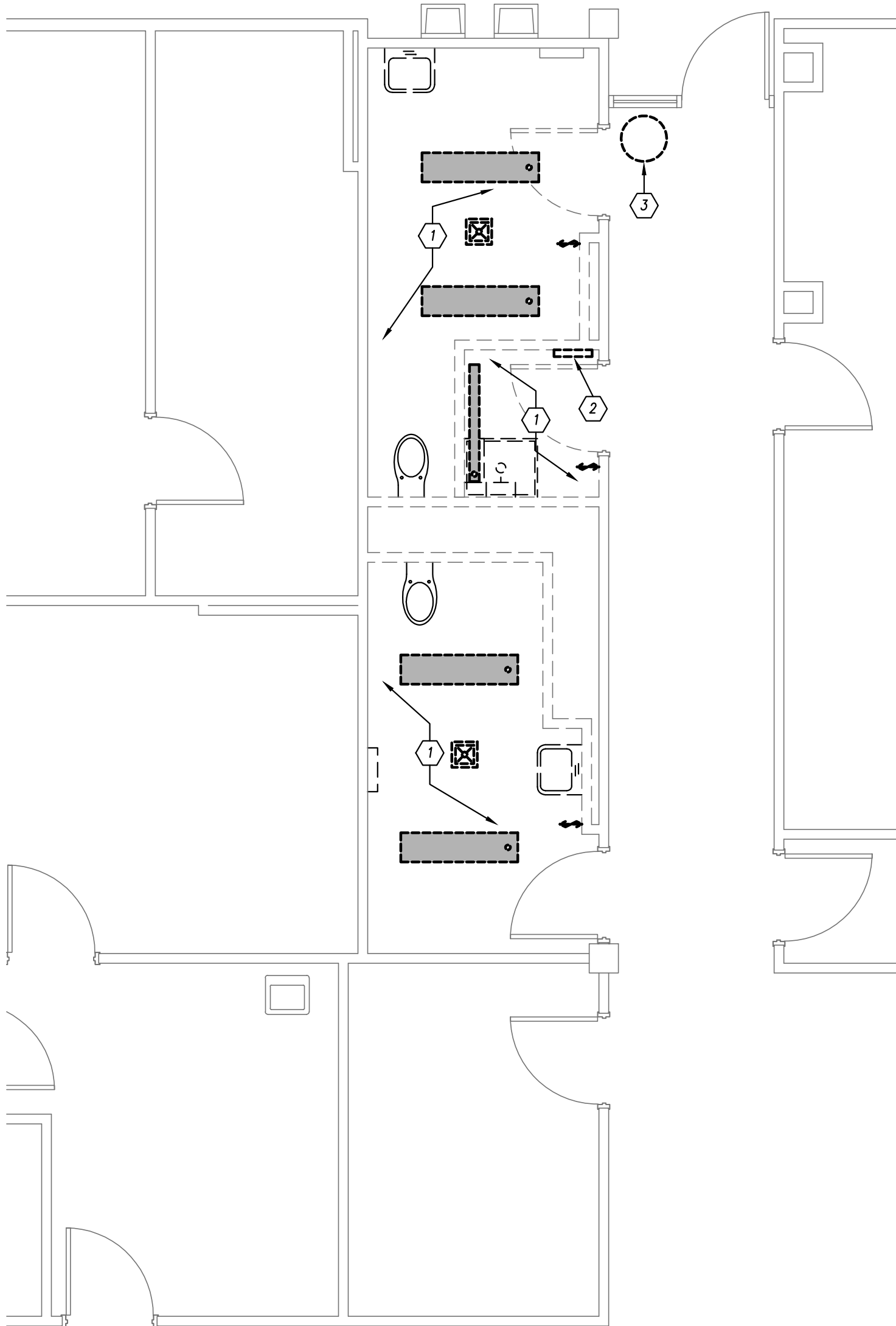
- 1 CIRCUIT NEW RECEPTACLE TO EXISTING CIRCUIT PREVIOUSLY SERVING THE SPACE. EXTEND ALL CONDUCTORS AS REQUIRED.
- 2 NEW FIRE ALARM DEVICE. COORDINATE NEW DEVICE WITH EXISTING FIRE ALARM SYSTEM. EXTEND ALL EXISTING WIRING AS REQUIRED FOR A COMPLETE SYSTEM.
- 3 NEW LOCATION FOR ELEVATOR POTS LINE. COORDINATE AND CONFIRM LOCATION AND ALL REQUIREMENTS WITH OWNER. FIELD VERIFY EXISTING VAULT LOCATION AND REROUTE EXISTING CONDUIT AS REQUIRED.
- 4 EXHAUST FAN TIMECLOCK PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- 5 CIRCUIT NEW EXHAUST FAN EF-1 TO CIRCUIT SERVING PREVIOUS EXHAUST FAN. EXHAUST FAN TO BE ROUTED THROUGH TIMECLOCK. COORDINATE ALL WITH MECHANICAL CONTRACTOR.

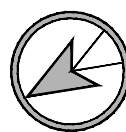
GENERAL LIGHTING NOTES

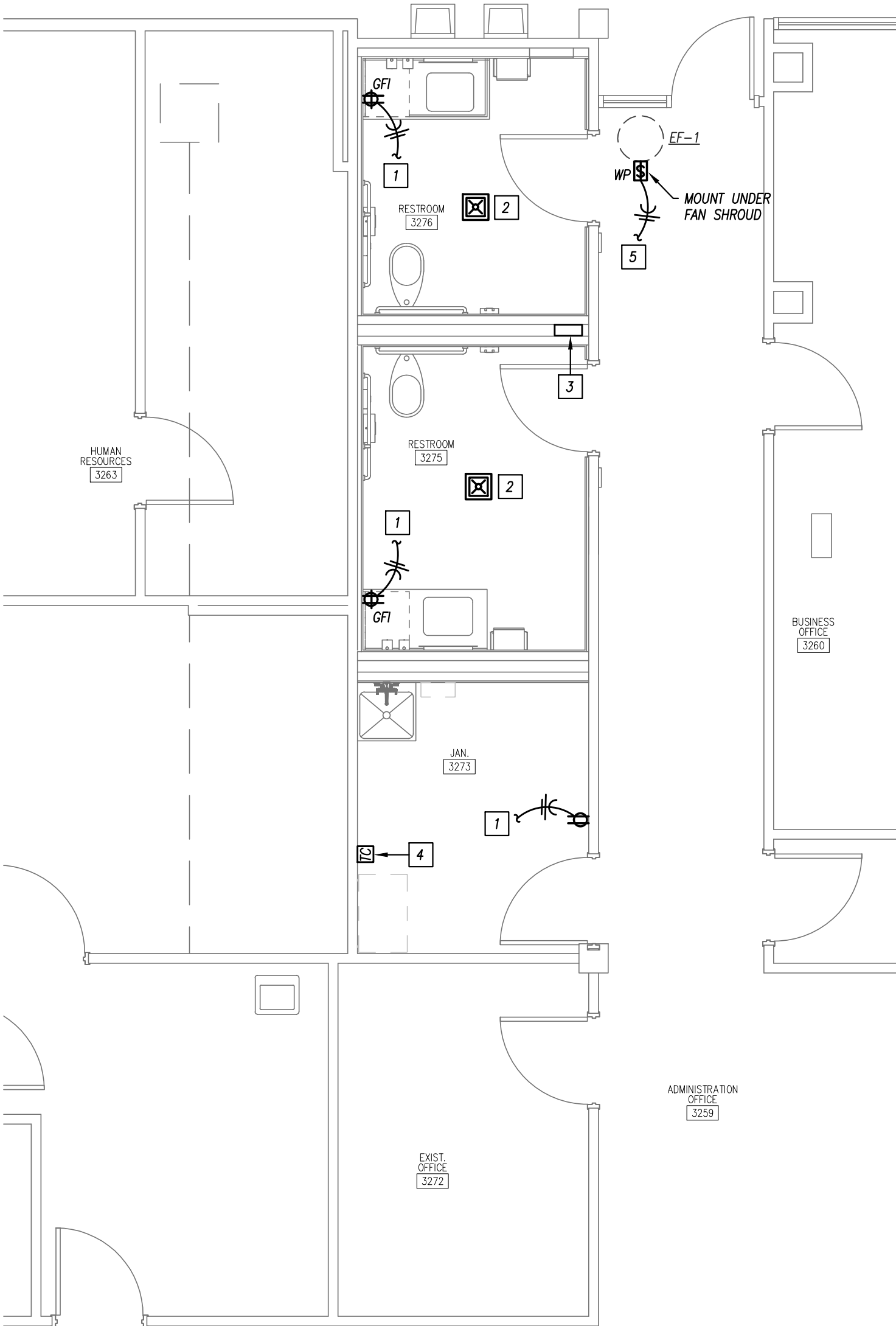
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DASTY-CHAINING OF FIXTURES IS NOT ALLOWED.
3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

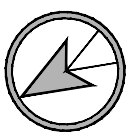
LIGHTING PLAN KEYED NOTES

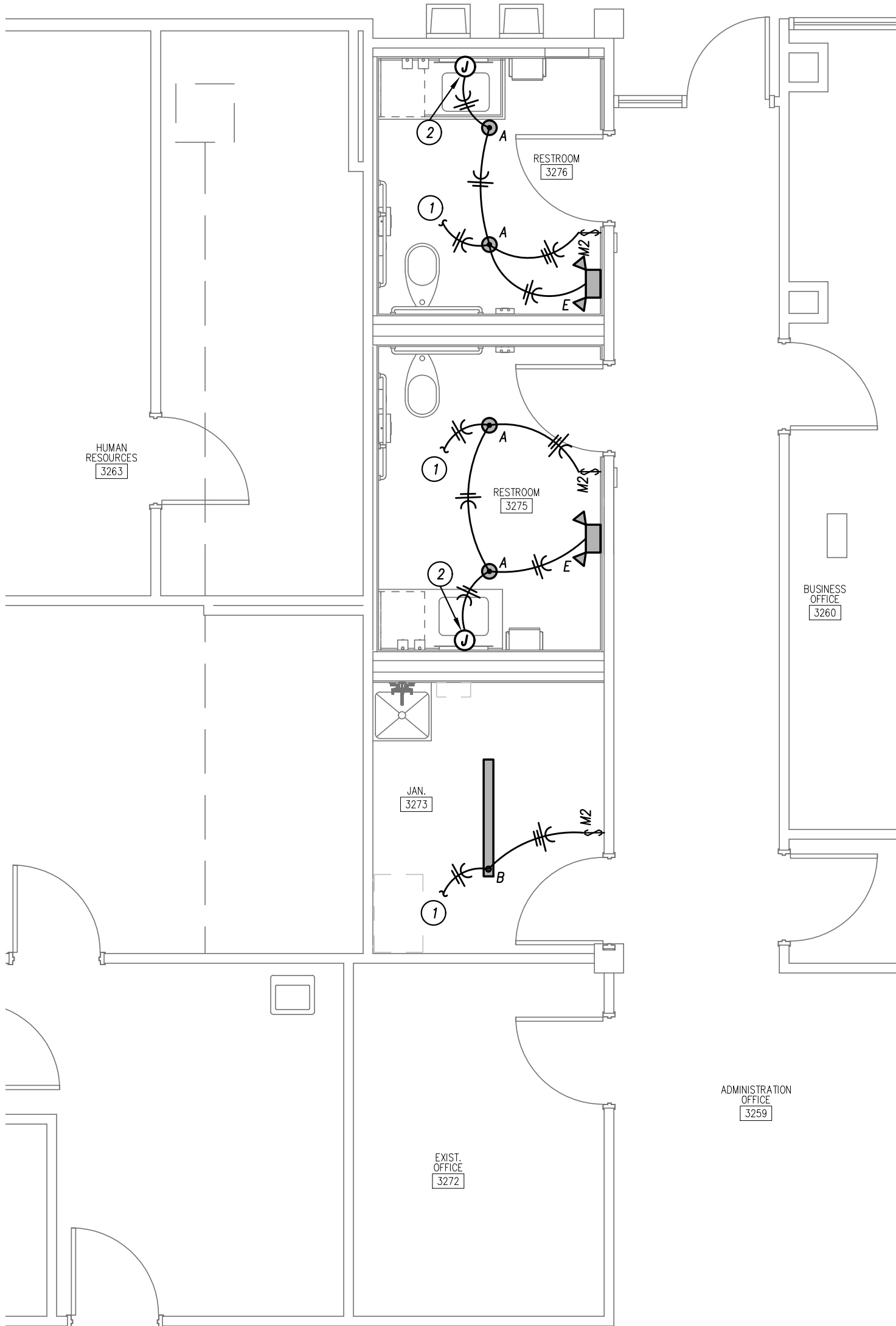
- 1 CIRCUIT NEW LIGHT FIXTURES TO EXISTING CIRCUIT PREVIOUSLY SERVING THE SPACE. EXTEND ALL CONDUCTORS AS REQUIRED.
- 2 JUNCTION BOX FOR ELECTRICAL CONNECTION TO LIGHT MIRROR. COORDINATE MOUNTING HEIGHT AND ALL REQUIREMENTS WITH ARCHITECT AND MIRROR MANUFACTURER.

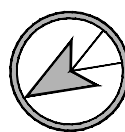


 **ELECTRICAL DEMOLITION PLAN**
1/4" = 1'-0"



 **POWER PLAN**
1/4" = 1'-0"



 **LIGHTING PLAN**
1/4" = 1'-0"



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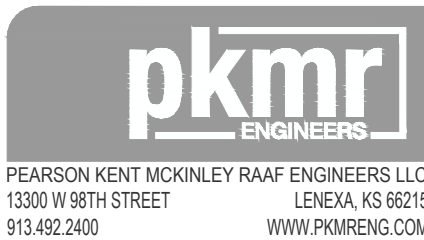
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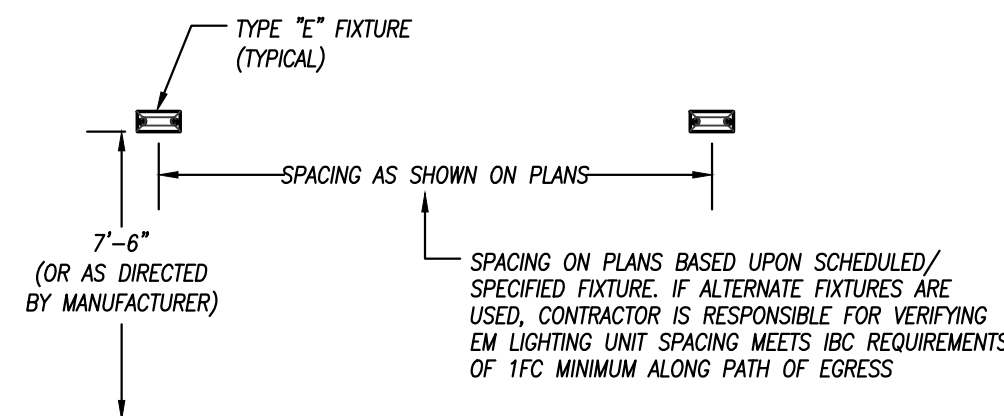
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ELECTRICAL
PLANS

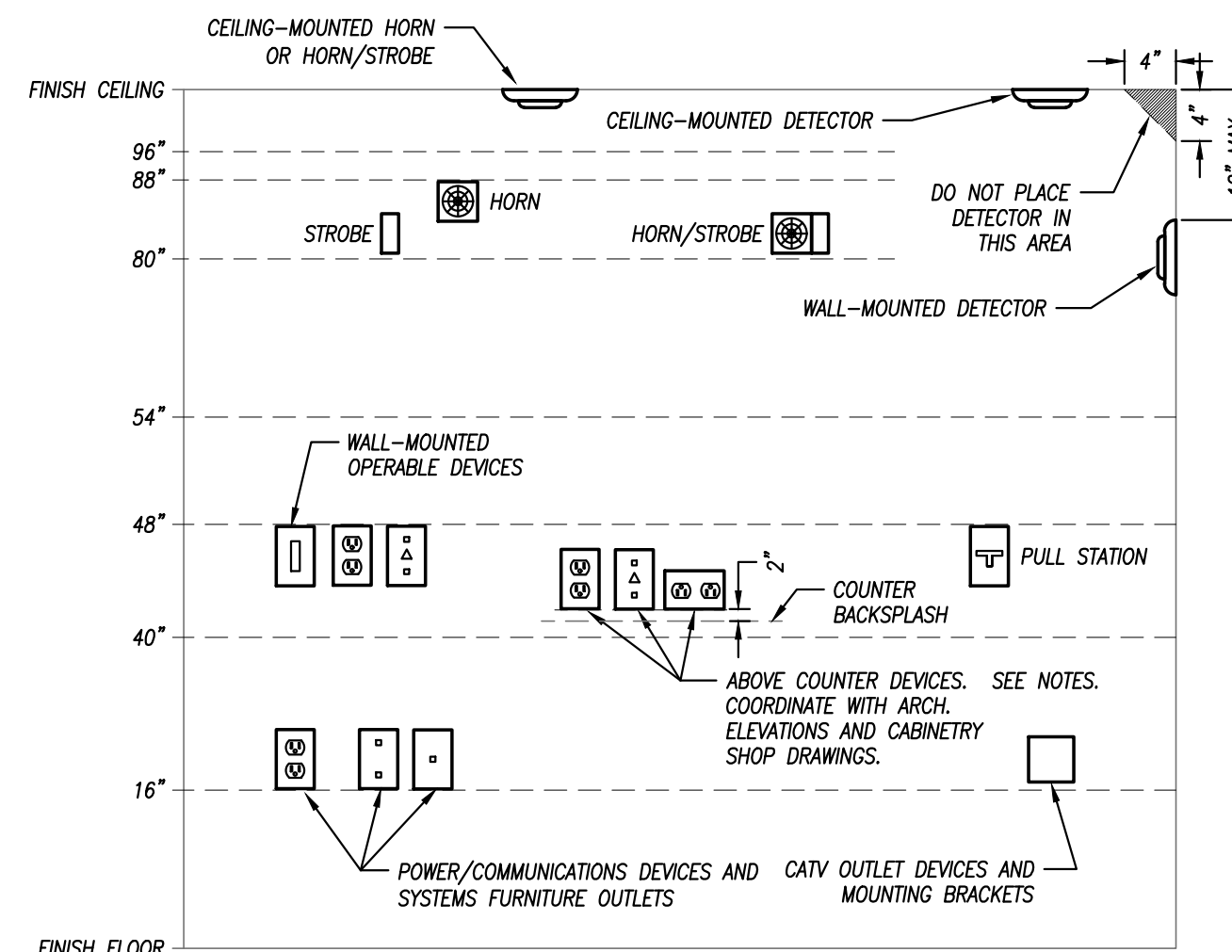
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EMERGENCY LIGHTING FIXTURES DETAIL



GENERAL NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS
BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW
CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE
THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING
(NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST
OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN
48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F.
(NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

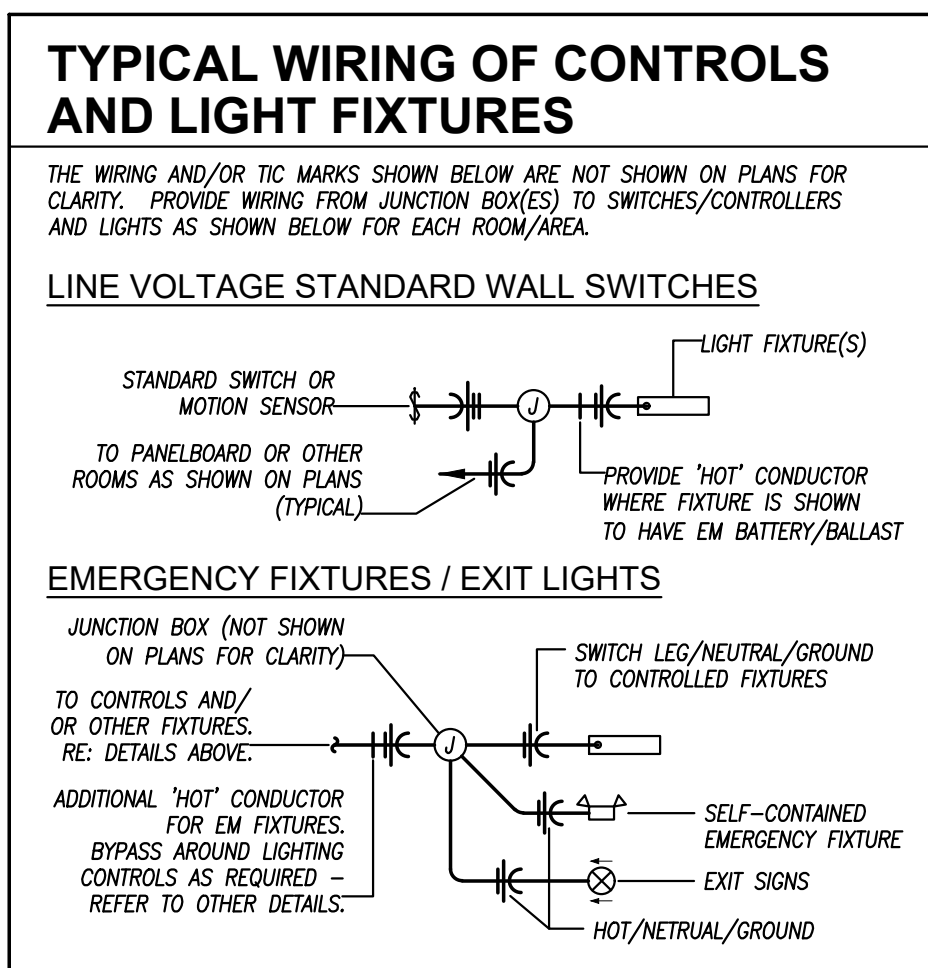
WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO
THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
- PUSH BUTTONS
- NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
- OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE



LIGHTING CONTROLS

SYMBOLS

↓M1 WALL SWITCH VACANCY SENSOR: PASSIVE INFRARED, 120/277V, WALL SWITCH DECORA STYLE SENSOR. (WATTSTOPPER PW-101, OR EQUAL)

↓M2 WALL SWITCH MOTION SENSOR (DUAL TECHNOLOGY): PASSIVE INFRARED AND ULTRASONIC, 120/277V, DECORA STYLE SENSOR. (WATTSTOPPER DSW-100, OR EQUAL)

TRAINING AND PROGRAMMING

OWNER TRAINING:

- PROVIDE FACTORY REPRESENTATIVE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.
- PROVIDE RECORD OF TIME DELAY SETTINGS ON ALL SENSOR DEVICES FOR OWNER USE.

SENSOR ADJUSTMENTS AND SETTINGS:

- SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.
 1. SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE.
 2. SET POWER PACKS AND ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH.
- PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.

CONTROLS SEQUENCES

WALL-MOUNTED LINE VOLTAGE SENSORS:

- TURN ON LIGHTS IN ROOM/AREA UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.
- TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	WILLIAMS	6DR SERIES	6" ROUND RECESSED DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. OPEN, SELF-FLANGED, SEMI-SPECULAR LOW REFLECTANT FINISH ALUMINUM REFLECTOR WITH WIDE BEAM ANGLE/DISTRIBUTION AND FROSTED TOP DIFFUSER.	L20	19	1782	80	3500K	0-10V	UNV	1
B	WILLIAMS	SERIES 75S	4"-Ø LONG COMMERCIAL-GRADE STRIP FIXTURE WITH SQUARE LENS. SURFACE MOUNT. WHITE FINISH.	L65	42	6500	80	3500K	NO	UNV	1
E	DUAL-LITE	EV SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE, "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMP. INTEGRAL TEST SWITCH AND AC-ON INDICATOR.	TWO (2) 1.1 WATT 1W LED LED.		-	-	-	-	UNV	1

REMARKS:

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

- 1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
- 2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
- 3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
- 4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
- 5) ALL FIXTURES SHALL BE IC RATED OR PROVIDED WITH INSULATION SHIELDS WHEN INSTALLED IN INSULATED AREAS OF THE TRUSS SPACE.
- 6) FOR ALL FIXTURES INSTALLED IN RATED ASSEMBLIES, FURNISH AND INSTALL APPROVED FIRE BARRIER (E.Z. BARRIER OR TENMAT F109 SERIES) OVER FIXTURE TO MAINTAIN 1 HOUR CEILING ASSEMBLY RATING.

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ELECTRICAL SCHEDULE & DETAILS

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