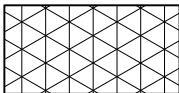
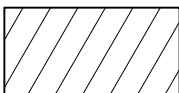
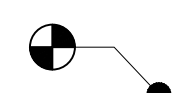



 **1 CODE PLAN**  
SCALE 1/8"=1'-0"

**LEGEND:**

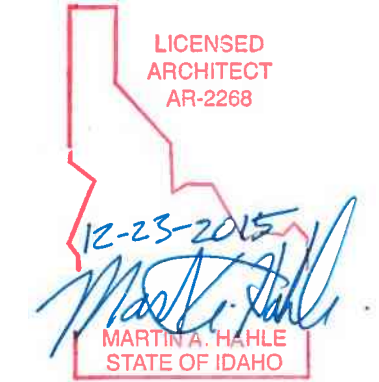
-  2-HOUR SHAFT ENCLOSURE.
-  2-HOUR STAIR ENCLOSURE.
-  FIRE EXTINGUISHER (LOCATION TBD).
-  PATH OF EGRESS.

**GENERAL NOTES:**

- A. FOR EXIT SIGN PLACEMENT, CW/ELECTIRCAL.
- B. REFER TO A4.1-3 FOR PARTITION BRACING AT CEILING.

**# SHEET NOTES:**

- 1. TEMPORARY PARTITION WALL.



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PROJECT 15209	DATE 12-23-2015
DRAWN DRG	CHECKED MAH

REVISED

SHEET TITLE  
**CODE PLAN**

SHEET  
**A0.1**  
ORIGINAL SHEET SIZE  
24" x 36"



A. GENERAL REQUIREMENTS

1. BASIC PROVISIONS
- A. THE STATEMENTS BELOW APPLY THROUGHOUT THE CONTRACT DOCUMENTS TO ALL CONTRACTOR AND SUBCONTRACTORS, WHO MAY USE THESE DRAWINGS DURING THE LIFE OF THIS PROJECT. THE TERM "CONTRACTOR" WHERE IT APPEARS BELOW AND THROUGHOUT THE CONTRACT DOCUMENTS DESCRIBES ALL OF THESE PARTIES.

B. ITEMS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE REQUIRED BY BOTH. CONFLICTS BETWEEN THE TWO SHALL BE GOVERNED BY THE WRITTEN SPECIFICATIONS.

C. THE DRAWINGS AND SPECIFICATIONS MAY NOT CONTAIN ALL ITEMS THAT ARE NECESSARY FOR A COMPLETE AND FUNCTIONAL PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ANY ITEM WHICH MAY BE REASONABLY INFERRED AS BEING REQUIRED TO ACCOMPLISH A FINISHED PRODUCT.

D. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A REASONABLE KNOWLEDGE OF ALL CODES, LAWS, STANDARDS, ACCEPTED METHODS AND PERFORMANCE CRITERIA APPLICABLE TO THE PROJECT. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A PROFESSIONAL MANNER, AND IN ACCORDANCE WITH STANDARD PROCEDURES RECOMMENDED BY THE MANUFACTURERS, TRADE ASSOCIATIONS, OR OTHER GENERALLY RECOGNIZED CONSTRUCTION STANDARDS ORGANIZATIONS. WORK SHALL CONFORM TO ALL APPLICABLE CODES, LAWS, STANDARDS, AND REGULATIONS OF GOVERNING AUTHORITIES.

E. THESE DOCUMENTS HAVE BEEN PREPARED UNDER A FULL SERVICE ARCHITECTURAL AGREEMENT AND ARE NOT WARRANTED BEYOND A CUSTOMARY DILIGENCE. IF ANY OMISSION OR DISCREPANCY IS FOUND WITHIN OR BETWEEN THE CONTRACT DOCUMENTS, OR IF ANY FEATURE SHOWN CONFLICTS WITH ANY LAW, CODE, STANDARD PRACTICE, PERFORMANCE CRITERIA, OR ANY MANUFACTURER OR TRADESMAN WARRANTY, THE OWNER SHALL BE NOTIFIED PROMPTLY SO THAT THE ITEM IN QUESTION CAN BE RESOLVED PRIOR TO CONSTRUCTION INVOLVING THE ITEM. FAILURE TO NOTIFY THE OWNER OF A REASONABLY OBSERVABLE OMISSION, DEFECT, DISCREPANCY, OR CONFLICT SHALL TRANSFER TO THE CONTRACTOR ALL RESPONSIBILITY FOR ANY CONSEQUENCE OF SUCH FAILURE TO NOTIFY.

F. ALL ACTIONS TAKEN WITHOUT SPECIFIC DIRECTIVES STATED IN THE DOCUMENTS SHALL BE THE RESPONSIBILITY OF THOSE TAKING SUCH ACTIONS.

G. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING A BID. ALL REASONABLY OBSERVABLE CONDITIONS SHALL BE ACCOMMODATED BY THE CONTRACTOR AFTER WORK HAS BEGUN.

H. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND LICENSES. BOISE CITY PAYS PERMIT AND PLAN REVIEW FEES. THE CONTRACTOR SHALL PICK UP AND PAY FOR TRADE PERMITS.

I. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, CLEANUP AND TRASH DISPOSAL NECESSARY FOR THE PROPER COMPLETION OF HIS WORK.

J. CONTRACTOR SHALL PERFORM THE WORK IN A PROFESSIONAL MANNER, IN STRICT CONFORMANCE WITH THE BEST STANDARD PRACTICES, USING QUALIFIED WORKERS, AND IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL MEET THE CODE REQUIREMENTS CURRENTLY ADOPTED BY THE LOCAL JURISDICTION.

K. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

L. THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCES AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION--WORK NOT FULLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE FULLY DETAILED.

M. CONTRACTOR SHALL PROVIDE TEMPORARY WALLS ADJACENT TO THE CONSTRUCTION ZONE AND USE REASONABLE DUST CONTROL MEASURES.

N. CONTRACTOR SHALL PASS BACKGROUND CHECKS AND OBTAIN SECURITY BADGES FROM SHANNA KITTELL AT CITY HALL PRIOR TO CONSTRUCTION. SHANNA CAN BE CONTACTED AT (208)433-5609 OR (208)433-5607.

O. MOST WORK WILL BE ALLOWED DURING NORMAL BUSINESS HOURS (7:00AM – 6:00PM). ANY WORK THAT IS UNREASONABLY NOISY OR BEYOND REASONABLE DISRUPTION TO STAFF WILL BE REQUIRED TO BE COMPLETED BETWEEN 6:00PM – 7:00AM.
2. WARRANTIES
- A. THE CONTRACTOR SHALL WARRANT LABOR, MATERIALS, AND INSTALLED EQUIPMENT FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF OCCUPANCY BY THE OWNER OR THE DATE OF FINAL PAYMENT, WHICHEVER OCCURS FIRST. THE CONTRACTOR SHALL REPAIR ANY FAILURE OR DEFICIENCY DISCOVERED WITHIN THIS TIME PERIOD AT NO COST TO THE OWNER.

B. COPIES OF WARRANTIES FOR SPECIFIC ITEMS SHALL BE DELIVERED TO THE OWNER PRIOR TO FINAL PAYMENT.

B. THERMAL AND MOISTURE PROTECTION

1. SEALANTS
- A. CAULKING --- POLYURETHANE BASED OR "SILICONIZED" ACRYLIC ELASTOMERIC, PAINTABLE. APPLY AT LOCATIONS SHOWN AND WHEREVER NECESSARY TO FILL GAPS THAT COULD NOT BE SEALED BY PAINTING ALONE.

B. SEALANT --- SILICONE BASE, CLEAR OR COLORED TO MATCH ADJACENT MATERIALS. APPLY SEALANT TO SHEET METAL, GLASS OR OTHER APPLICATIONS WHERE PAINTING IS NEITHER REQUIRED NOR DESIRABLE. SEALANT COLOR SHALL MATCH OR BLEND WITH ADJACENT MATERIAL COLOR.

C. MILLWORK NOTES:

1. ALL MILLWORK, STANDING AND RUNNING TRIM, CASEWORK AND PLASTIC LAMINATE WORK SHALL CONFORM TO THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) QUALITY STANDARDS UNLESS OTHERWISE NOTED.
2. ALL MILLWORK AND FINISH CARPENTRY FABRICATION SHALL BE FABRICATED FROM FIELD MEASUREMENTS WITH PROVISIONS FOR SCRIBING AS REQUIRED TO MEET FIELD CONDITIONS.
3. INSTALL ALL CASEWORK AND FINISH CARPENTRY PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS OR WARPS.
4. PROTECT INSTALLED CASEWORK AND PANELWORK IMMEDIATELY AFTER INSTALLATION AGAINST SOILING AND DAMAGE. REMOVE PROTECTION JUST PRIOR TO TENANT ACCEPTANCE AND MOVE-IN AND CLEAN ALL SURFACES.
5. DRAWINGS INDICATE BASIC LAYOUT OF MILLWORK. ALL MILLWORK IS DESIGN BUILD, BY THE CONTRACTOR, AND WILL BE COORDINATED DIRECTLY BETWEEN CONTRACTOR, AND THE CITY OF BOISE.

D. FINISHES

1. REFER TO FINISH SCHEDULE FOR A COMPLETE LIST OF ALL FINISHES. INSTALL ALL FINISHES PER THE MANUFACTURERS RECOMMENDATIONS.
2. GYPSUM WALLBOARD

A. 5/8" TYPE "X" GYPSUM BOARD.

B. ALL GYPSUM BOARD SHALL BE FASTENED BY SCREWS. PROVIDE LEVEL 5 FINISH. JOINTS SHALL BE CONCEALED WITH LEVEL FINISH SYSTEM INCLUDING EMBEDDING TAPE, MUDDING OVER TAPE, FINISH MUD, FOLLOWED BY AN APPLICATION OF A THIN SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SANDING. FINISHED SURFACES SHALL BE SMOOTH, EVEN AND UNINTERRUPTED, WITHOUT ANY TAPE SHOWING, FREE OF WAVINESS, JOINT LINES AND IMPERFECTIONS OF ANY SORT; READY FOR PAINT OR WALL COVERINGS.
3. PAINTING

A. ALL SURFACES SHALL BE CLEAN AND DRY BEFORE STARTING WORK. PROTECT ALL ADJACENT SURFACES AND MATERIALS WITH COVERS, DROP CLOTHS OR MASKING. REMOVE HARDWARE, FIXTURE PLATES, COVERS, ETC. BEFORE PAINTING AND REPLACE AFTER PAINT HAS DRIED.

B. PREPARE GYPSUM BOARD SURFACES BY DUSTING SURFACE AND REMOVING SPECKS OF COMPOUND. SAND OR REPAIR ANY IMPERFECTIONS THAT WOULD SHOW THROUGH THE PAINT.

1. ALL SURFACES SCHEDULED TO RECEIVE PAINTED FINISHES SHALL RECEIVE ONE (1) PRIMER COAT AND TWO (2) FINISH COATS, UNLESS OTHERWISE NOTED.

2. ALL WALLS, COLUMNS AND OTHER GYPSUM WALLBOARD SURFACES SCHEDULED FOR PAINT FINISH SHALL BE FINISHED WITH LATEX SATIN ENAMEL, UNLESS OTHERWISE NOTED. ALL PAINT GRADE DOOR CASINGS, PAINT GRADE TRIMS, SHELVING, ETC. SCHEDULED FOR PAINT FINISH SHALL BE FINISHED WITH LATEX SEMI-GLOSS ENAMEL, UNLESS OTHERWISE NOTED.

3. UNLESS NOTED OTHERWISE, ALL WALL/CEILING PAINT TO BE SMOOTH ROLLED FINISH.

C. PREPARE METAL SURFACES BY CLEANING WITH DEGREASER, GRIND OR SAND MINOR IMPERFECTIONS.

1. METAL --- FACTORY PRIMER PLUS TWO COATS SEMI GLOSS LATEX ENAMEL.

D. SPRAYERS ARE NOT ALLOWED UNLESS PREVIOUSLY APPROVED BY THE OWNER FOR THE PROJECT.

E. ADEQUATE VENTILATION MUST BE PROVIDED. SCHEDULING SHOULD BE COORDINATED WITH THE OWNER.

4. CARPET PREPARATION

A. GENERAL: COMPLY WITH CARPET MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PREPARING SUBSTRATES INDICATED TO RECEIVE CARPET INSTALLATION.

B. REMOVE SUBFLOOR RIDGES AND BUMPS. FILL MINOR OR LOCAL LOW SPOTS, CRACKS, JOINTS, HOLES AND OTHER DEFECTS WITH SUBFLOOR FILLER AS INDICATED IN MANUFACTURER'S PREPARATION RECOMMENDATIONS. REMOVE, FILL, AND ABANDON FLOOR OUTLETS.

C. REMOVE COATINGS, INCLUDING CURING COMPOUNDS, AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, WITHOUT USING SOLVENTS. USE MECHANICAL METHODS RECOMMENDED IN WRITING BY CARPET MANUFACTURER.

D. BROOM AND VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE INSTALLING CARPET. AFTER CLEANING, EXAMINE SUBSTRATES FOR MOISTURE, ALKALINE SALTS, CARBONATION, OR DUST. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

E. CONFIRM COMPATIBILITY OF MULTIPURPOSE ADHESIVE RECOMMENDED BY CARPET MANUFACTURER WITH CURRING COMPOUNDS ON CONCRETE FLOORS.

F. PRE-HEAT AREAS TO RECEIVE CARPET TO A MINIMUM TEMPERATURE OF 68°F FOR 72 HOURS PRIOR TO INSTALLATION WITH A RELATIVE HUMIDITY OF NOT MORE THAN 65%. MAINTAIN A MINIMUM TEMPERATURE OF 50°F THEREAFTER. CARPET AND ADHESIVE MUST BE STORED AT A MINIMUM TEMPERATURE OF 68°F FOR 72 HOURS PRIOR TO INSTALLATION OR AS RECOMMENDED BY THE MANUFACTURER.

INSTALLATION

A. GENERAL: COMPLY WITH CRI 104, SECTION 14, FOR CARPET MODULES.

B. INSTALLATION METHOD: REFERENCE MATERIALS KEY.

C. CUT AND FIT CARPET TO BUTT TIGHTLY TO VERTICAL SURFACES, PERMANENT FIXTURES, AND BUILT-IN FURNITURE INCLUDING CABINETS, PIPES, OUTLETS, EDGINGS, THRESHOLDS, AND NOSINGS. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET MANUFACTURER.

D. EXTEND CARPET INTO TOE SPACES, DOOR REVEALS, CLOSETS, OPEN-BOTTOMED OBSTRUCTIONS, REMOVABLE FLANGES, ALCOVES, AND SIMILAR OPENINGS.

E. MAINTAIN REFERENCE MARKERS, HOLES, AND OPENINGS THAT ARE IN PLACE OR MARKED FOR FUTURE CUTTING BY REPEATING ON FINISH FLOORING AS MARKED ON SUBFLOOR. USE NONPERMANENT, NONSTAINING MARKING DEVICE.

F. INSTALL EDGING GUARDS AT OPENINGS AND DOORS WHEREVER CARPET TERMINATES UNLESS INDICATED OTHERWISE.

G. INSTALL CARPET FROM SAME DYE LOT AND RUN WITHIN EACH CONTINUOUS CARPET AREA.

H. CARPET MANUFACTURER RECOMMENDATIONS ABOUT APPLICATION, SQUARENESS AND LOCATION OF WORKING CHALK LINES MUST BE FOLLOWED PRECISELY. MODULAR CARPET MUST BE INSTALLED ON 90 DEGREE FORMATS, WITH CORNERS ALIGNED ACCORDING TO MANUFACTURER SPECIFICATIONS.

J. USE FLOOR LEVELING COMPOUND WHERE NECESSARY.

K. MODULES IN THE COMPLETED INSTALLATION MUST BE SNUGLY JOINED. CONTINUALLY CHECK THAT MODULES ARE BEING JOINED WITH CORRECT FIRMNESS. TO ENSURE PROPER SPACING WHEN INSTALLING CARPET TILES, MEASURE THE DISTANCE COVERED BY 11 MODULES (10 JOINTS) INSTALLED ON THE FLOOR WITH NO VISIBLE GAPS, PEAKS OR OVERLAPS. THIS DISTANCE SHOULD BE IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS. CARE MUST BE TAKEN TO NOT TRAP YARN BETWEEN MODULES.

L. COMPLETE INSTALLATION OF EDGE STRIPS, CONCEALING EXPOSED EDGES.

E. FINISH NOTES:

1. PROVIDE, STORE AND INSTALL ALL SPECIFIED FINISH MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

2. NO SUBSTITUTIONS OF SPECIFIED FINISH MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF OWNER AND/OR ARCHITECT.

3. ALL FINISH MATERIALS AND FINISH ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF ALL CODES AND REGULATIONS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION. ALL FINISHES MUST HAVE A FLAME SPREAD RATING OF 200 OR LESS, AND A SMOKE GENERATION RATING OF 450 OR LESS AS DETERMINED BY ASTM E 84.

4. ALL FINISH MATERIALS SHALL BE NEW, FIRST QUALITY MATERIALS NORMALLY AVAILABLE FROM THE MANUFACTURER.

5. PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

6. FLASH PATCH ALL AREAS WHERE FLOOR SURFACES ARE NOT SMOOTH, LEVEL OR TRUE, PRIOR TO FINISH FLOOR INSTALLATION.

7. ALL FINISH FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS OR CASED OPENINGS, UNLESS OTHERWISE NOTED.

8. ALL SEAMS AND JOINTS OF FINISH MATERIALS SHALL BE STRAIGHT, SMOOTH AND CLEAN.

9. ONLY WHERE INDICATED "EQUAL TO" OR "SUBSTITUTIONS" FOR SPECIFIED MATERIALS, OR FOR LONG LEAD TIME CONSIDERATION SHALL SUBSTITUTIONS BE CONSIDERED BY OWNER.

10. BEFORE PROCEEDING WITH PROCUREMENT, THE RESPECTIVE INSTALLER SHALL FIELD VERIFY DIMENSIONS TO ASSURE SUFFICIENT QUANTITIES OF MATERIALS TO COMPLETE THE WORK.

11. ALL WALLS AND SURFACES RECEIVING PAINT AND WALL COVERINGS, ETC. SHALL BE PROPERLY PREPARED PRIOR TO FINISH INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS. ALL J BEADS OR OTHER GYPSUM METAL TRIM SHALL BE SPACKLED AND BLENDED INTO ADJACENT SURFACE.

12. COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR HANDLING, STORAGE, INSTALLATION AND PROTECTION IS THE EXCLUSIVE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS RESPECTIVE INSTALLERS.

13. THE RESPECTIVE INSTALLER SHALL ADVISE ARCHITECT OF LOCATIONS OF CHANGES IN DYE LOTS, BATCHES OR SIMILAR COLOR SHIFTS.

14. THE GENERAL CONTRACTOR SHALL PROVIDE ONE FINAL TOUCHUP OF PAINTED SURFACES AFTER THE TENANT HAS MOVED INTO THE SPACE.

15. FINISHES CALLED FOR SHALL EXTEND OVER, UNDER AND/OR BEHIND ANY ITEM OF BUILT-IN MILLWORK, EQUIPMENT, MIRRORS, ETC. AS INDICATED ON THE DRAWINGS.

16. CEILING TILES SHOULD NOT BE INSTALLED UNTIL ALL ABOVE CEILING WORK IS COMPLETE.

17. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT IN ACCORDANCE WITH NOTE 18 OR NOTE 19 EXCEPT NOTE 19 SHALL NOT BE REQUIRED TO BE TESTED IN ACCORDANCE WITH NOTE 18.

18. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES.

CLASS 'A': FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.

CLASS 'B': FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.

CLASS 'C': FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

EXCEPTION: MATERIALS TESTED IN ACCORDANCE WITH NOTE 19.

19. INTERIOR WALL OR CEILING FINISH MATERIALS SHALL BE PERMITTED TO BE TESTED IN ACCORDANCE WITH NFPA 286.

20. INTERIOR WALL AND CEILING FINISH MATERIALS TESTED IN ACCORDANCE WITH NFPA 286 AND MEETING THE ACCEPTANCE CRITERIA SHALL BE PERMITTED TO BE USED WHERE A CLASS 'A' CLASSIFICATION IN ACCORDANCE WITH ASTM E 84 OR UL 723 IS REQUIRED. A MINIMUM CLASS 'C' 200 FLAME SPREAD INDEX RATING AND 450 SMOKE DEVELOPMENT INDEX RATING IS REQUIRED. CONTRACTOR TO PROVIDE EVIDENCE AT JOB SITE FOR FIRE AND STRUCTURAL INSPECTORS TO REVIEW TO VERIFY CODE COMPLIANCE OF PROPOSED FINISH MATERIALS AND APPLICATIONS.

F. ASBESTOS ABATEMENT

1. THE U.S. ENVIRONMENTAL AGENCY MUST BE NOTIFIED (10) WORKING DAYS IN ADVANCE FOR ALL RENOVATIONS THAT DISTURB 260 L.F. / 160 SQ. FT. / 35 CU. FT. OF ASBESTOS CONTAINING MATERIALS.

2. UPON DISCOVERY OF ASBESTOS CONTAINING MATERIALS, CONFORM TO APPLICABLE STATUTORY CODES AND INFORM OWNER IMMEDIATELY.

3. NO ASBESTOS IS ANTICIPATED TO BE ENCOUNTERED.

G. DOORS AND DOOR HARDWARE

1. REFER TO DOOR SCHEDULE FOR INFORMATION.

H. GLAZING

1. EACH PANE SHALL BEAR THE MANUFACTURER'S MARK DESIGNATING THE TYPE AND THICKNESS OF THE GLASS OR GLAZING MATERIAL. THE IDENTIFICATION SHALL NOT BE OMITTED UNLESS APPROVED AND AN AFFIDAVIT IS FURNISHED BY THE GLAZING CONTRACTOR CERTIFYING THAT EACH LIGHT IS GLAZED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS.

2. EACH PANE OF TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED BY THE MANUFACTURER. THE IDENTIFICATION MARK SHALL BE ACID ETCHED, SAND BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF THAT TYPE THAT, ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED.

3. CONTRACTOR TO PROVIDE/MAKE AVAILABLE EVIDENCE OF CODE COMPLIANCE FOR GLAZING AT JOB SITE FOR INSPECTOR REVIEW AND APPROVAL.

4. REFER TO WINDOW TYPES FOR ADDITIONAL INFORMATION.

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PROJECT 15209	DATE 12-23-2015
DRAWN DRG	CHECKED MAH

REVISED 1	OWNER REVISIONS 1-7-2016
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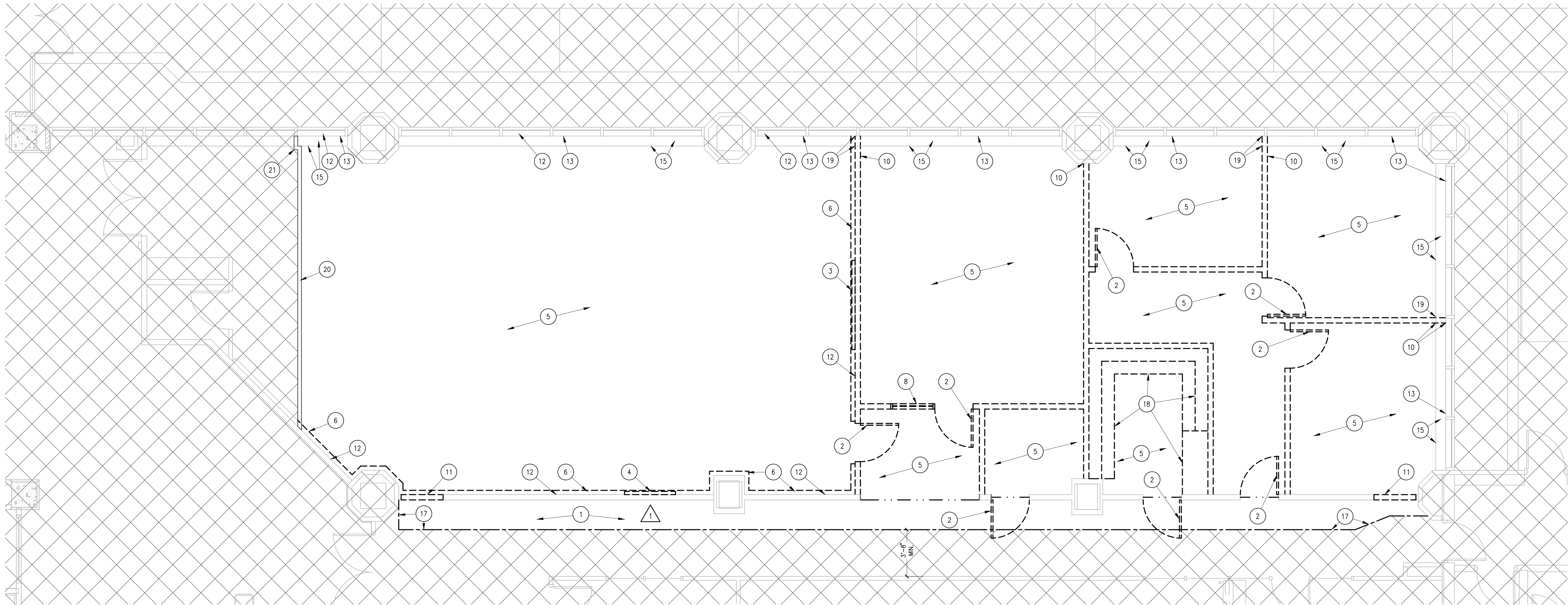
SHEET TITLE

SPECIFICATIONS

SHEET

A0.2  
ORIGINAL SHEET SIZE  
24" x 36"





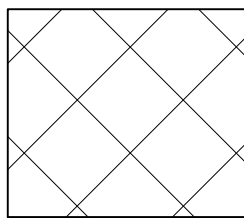
**DEMOLITION FLOOR PLAN**  
SCALE 1/4" = 1'-0"

**LEGEND:**

--- INDICATES EXTENT OF FLOORING TO BE REMOVED.

===== INDICATES CONSTRUCTION TO BE DEMOLISHED AND REMOVED FROM THE SITE UNLESS NOTED OTHERWISE.

===== INDICATES CONSTRUCTION TO REMAIN AND BE PROTECTED.



NO WORK IN THIS AREA.

----- INDICATES LINE OF TEMPORARY WALL.

**GENERAL NOTES:**

- ALL EXISTING EXPOSED TO VIEW FINISHED WALL SURFACES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING WALL FINISHES AND CONDITION. ENTIRE SURFACE OF REPAIRED WALL (FLOOR TO CEILING/CORNER TO CORNER) SHALL BE REFINISHED.
- MAINTAIN INTEGRITY OF ALL REMAINING BUILDING SYSTEMS AND RATINGS. REPAIR ANY DAMAGE DONE TO SURROUNDING AREAS DURING CONSTRUCTION.
- ALL SIGNAGE, PLAQUES, AND WALL HUNG ITEMS TO BE REMOVED AND RETURNED TO OWNER UNLESS NOTED OTHERWISE.
- ALL ITEMS INDICATED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- MAINTAIN ALL ELEMENTS OF EXISTING STRUCTURAL COMPONENTS.
- FOR THERMOSTAT LOCATIONS CW/ELECTRICAL.
- COORDINATE WITH OWNER FOR REMOVAL OF ALL A/V EQUIPMENT DURING DEMOLITION.

**# SHEET NOTES:**

- REMOVE CARPET TILE BETWEEN TEMPORARY WALL AND EXISTING WALL DURING CONSTRUCTION. REPLACE CARPET TILE WHEN CONSTRUCTION IS COMPLETE.
- REMOVE EXISTING DOOR, FRAME, AND HARDWARE. CW/OWNER FOR SALVAGE.
- COORDINATE WITH OWNER FOR REMOVAL OF EXISTING PROJECTOR SCREEN, CW/OWNER FOR SALVAGE.
- REMOVE EXISTING WALL BOARD, CW/OWNER FOR SALVAGE.
- REMOVE ALL EXISTING CARPET AND BASE. PREPARE SUBSTRATE FOR NEW CARPET, RE: FINISH SCHEDULE.
- REMOVE EXISTING HANDRAIL AND WALL COVERING. PATCH AND PREPARE SURFACE FOR NEW FINISH.
- NOT USED.
- REMOVE EXISTING WINDOW FRAME AND GLASS, CW/OWNER FOR SALVAGE.
- NOT USED.
- REMOVE WALL WHILE PROTECTING FINISHES OF SILL, WALL, AND WINDOW FRAME AS REQUIRED. PATCH, REPAIR, AND PAINT TO MATCH EXISTING AS REQUIRED.

- REMOVE WALL AS REQUIRED FOR NEW STORE FRONT DOOR SYSTEM. PROTECT WALL FINISHES REMAINING. IF REQUIRED PATCH AND PAINT HALLWAY SIDE OF WALL TO MATCH EXISTING. ALL EXISTING EXPOSED TO VIEW FINISHED WALL SURFACES DAMAGED DURING ANY CONSTRUCTION PHASE OF THIS PROJECT SHALL BE REPAIRED TO MATCH EXISTING WALL SURFACE AND CONDITION. ENTIRE SURFACE OF REPAIRED WALL (FLOOR-TO-CEILING/CORNER-TO-CORNER) SHALL BE REFINISHED TO MATCH ADJACENT AREAS.
- REMOVE EXISTING ACOUSTIC WALL PANELS. SALVAGE QUANTITY IN GOOD CONDITION FOR REUSE (RE: ELEVATION). CW/OWNER FOR SALVAGE OF REMAINING.
- REMOVE VERTICAL OR HORIZONTAL BLINDS AND HARDWARE. PATCH AND REPAIR DAMAGED SURFACES.
- NOT USED.
- ADD ALTERNATE NO. ONE REPLACE PANELS AT EXISTING CUSTOM FABRICATED ELECTRICAL RACEWAY. PREPARE FOR RESURFACING.
- NOT USED.
- POTENTIAL LOCATION OF TEMPORARY CONSTRUCTION/DUST WALL. CONTRACTOR TO CW/CITY OF BOISE FOR APPROVED LAYOUT. PROVIDE CODE COMPLIANT (3'-0"W X 7'-0"H) EGRESS DOORWAY. PROTECT EXISTING FLOORING TO REMAIN.

- REMOVE EXISTING MILLWORK, CW/OWNER FOR SALVAGE. RE: A4.1-6 FOR SECTIONS OF MILLWORK TO BE REUSED AS PART OF PROJECT.
- REMOVE EXISTING WALL THAT CUTS THROUGH CUSTOM FABRICATED ELECTRICAL RACEWAY. IF ADD ALTERNATE NO. ONE IS NOT ACCEPTED PROVIDE NEW FILLER PANELS AS INDICATED ON FLOOR PLAN.
- TEMPORARY PARTITION WALL. CONTRACTOR TO CW/CITY OF BOISE FOR APPROVED LAYOUT. WALL SHALL STOP AT CEILING GRID. RE: A4.1-3 FOR DETAIL. GYPSUM BOARD BOTH SIDES AND FINISH EAST SIDE (OCCUPIED TENANT SPACE) OF WALL TO A LEVEL 5 FINISH TO MATCH ADJACENT WALLS. TAPE AND ONE LAYER SPACKLE OPPOSITE SIDE WALL. WALL SHALL REMAIN UNTIL ADJACENT SPACE IS BUILT OUT AT A FUTURE DATE.
- JOG TEMPORARY WALL SO IT DOES NOT RUN THROUGH EXISTING LIGHT FIXTURES AND RETURN AIR GRILLE, WHICH ARE TO REMAIN. WALL SHALL RUN ON THE EAST SIDE OF THESE FIXTURES.



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PROJECT	DATE
15209	12-23-2015
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DRG	MAH

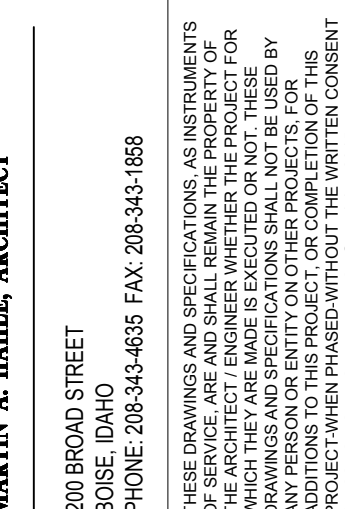
REVISED	OWNER REVISIONS
1	1-7-2016

SHEET TITLE  
**DEMOLITION FLOOR PLAN**

SHEET

**A1.1**  
ORIGINAL SHEET SIZE  
24" x 36"





**BILLING**  
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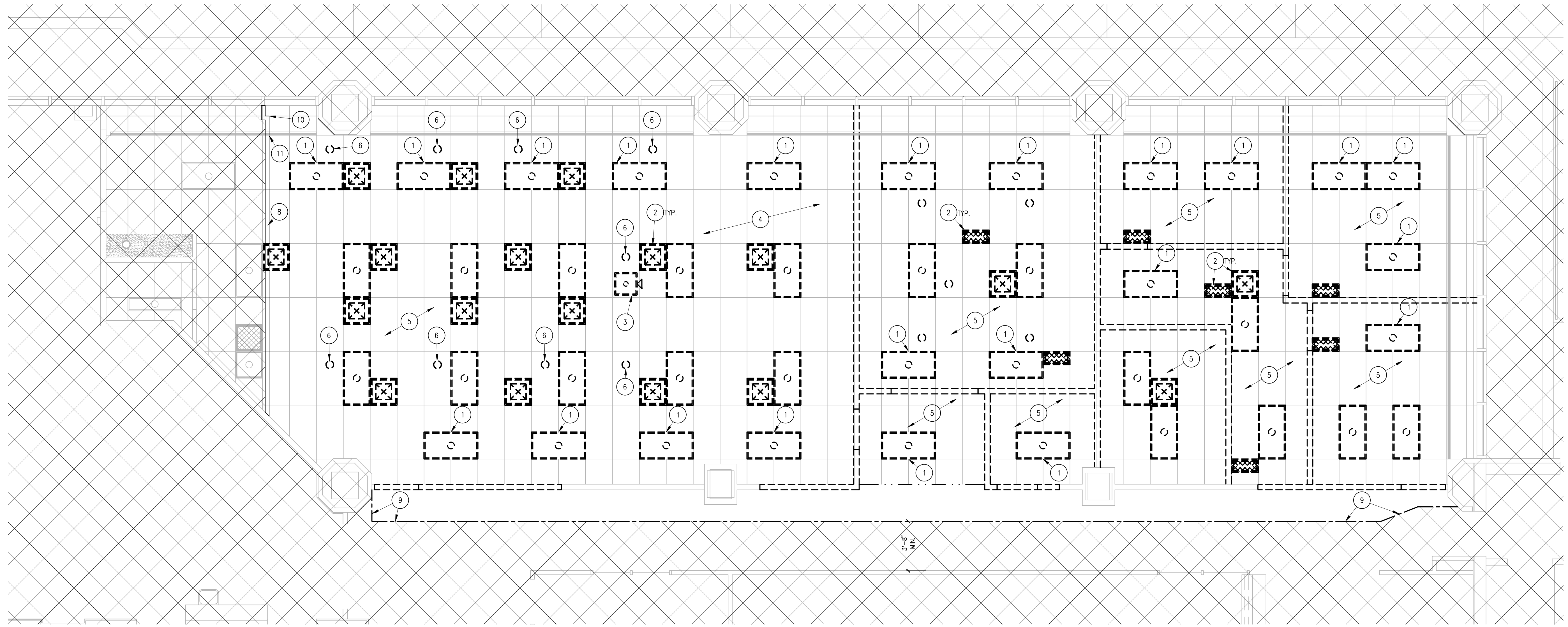
PROJECT 15209	DATE 12-23-201
DRAWN	CHECKED
DRG	MAH

REVISED

SHEET TITLE  
**DEMOLITION  
CEILING  
PLAN**

SHEET

**A1.2**  
**ORIGINAL SHEET SIZE**  
**24" x 36"**



 **1 DEMOLITION CEILING PLAN**  
SCALE 1/4" = 1'-0"

## LEGEND

- INDICATES LINE OF TEMPORARY WALL.
- CEILING DEMOLITION LINE OF EXTENT
- INDICATES CONSTRUCTION TO BE DEMOLISHED AND REMOVED FROM THE SITE UNLESS NOTED OTHERWISE.
- INDICATES CONSTRUCTION TO REMAIN AND BE PROTECTED.
- NO WORK IN THIS AREA.
- EXISTING 2X4 SUSPENDED ACOUSTICAL TILE CEILING GRID AND NEW CEILING TILE, RE: FINISH SCHEDULE. CONTRACTOR SHALL REPLACE ANY MISSING OR DAMAGED CEILING GRID.
- EXISTING LIGHT FIXTURES TO BE REMOVED. CW/ELECTRICAL & OWNER FOR DISPOSAL.
- EXISTING DIFFUSERS AND RETURN AIR GRILLES TO BE REMOVED. CW/ELECTRICAL & OWNER FOR DISPOSAL.
- EXISTING LIGHT FIXTURES TO REMAIN AND BE PROTECTED.
- EXISTING DIFFUSERS AND RETURN AIR GRILLES TO REMAIN AND BE PROTECTED.

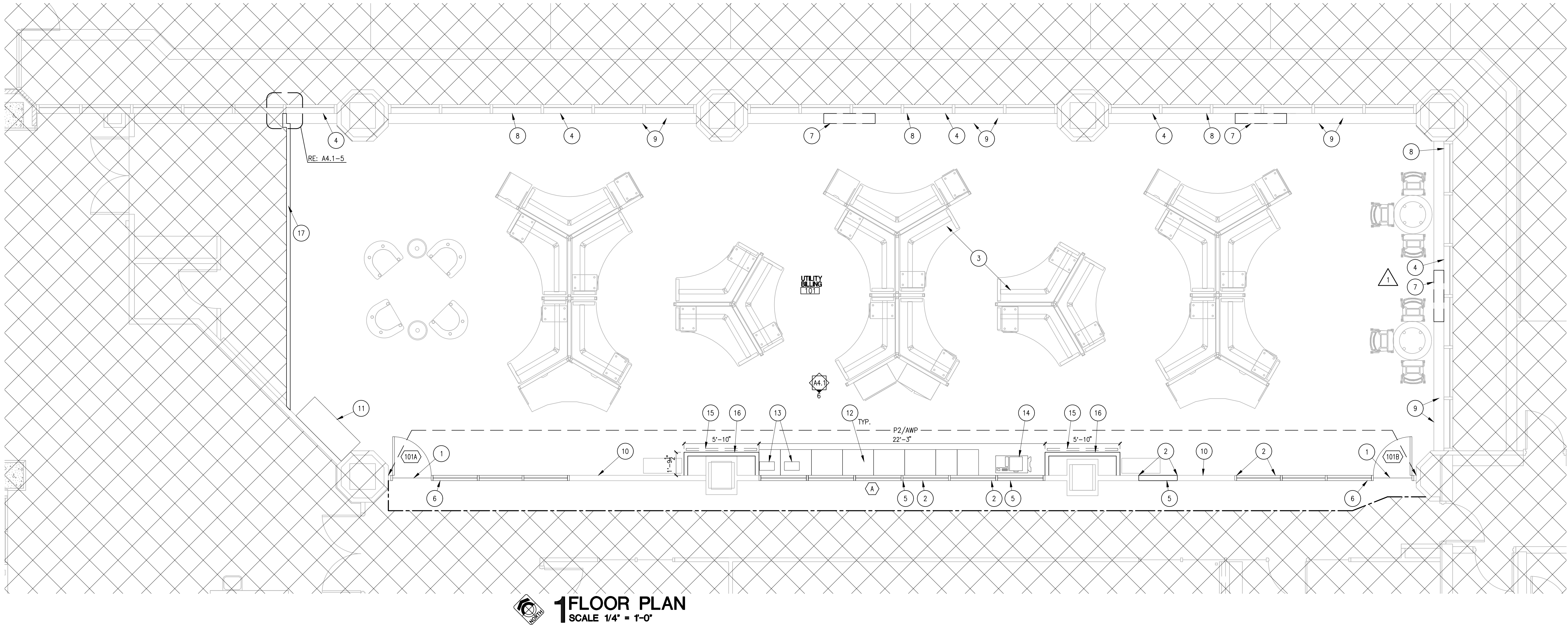
## GENERAL NOTES:

- A. MAINTAIN INTEGRITY OF ALL REMAINING BUILDING SYSTEMS AND RATINGS. REPAIR ANY DAMAGE DONE TO SURROUNDING AREAS DURING CONSTRUCTION.
- B. ALL ITEMS INDICATED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- C. MAINTAIN ALL ELEMENTS OF EXISTING STRUCTURAL COMPONENTS.
- D. COORDINATE WITH OWNER FOR REMOVAL OF ALL A/V EQUIPMENT DURING DEMOLITION.
- E. ALL EXISTING CEILING TILE SHALL BE REMOVED WITHIN THE SCOPE OF WORK. RE: FINISH SCHEDULE FOR NEW CEILING TILE.

**# SHEET NOTES:**

1. PATCH CEILING GRID WHERE LIGHT FIXTURE IS REMOVED.
2. REMOVE EXISTING DIFFUSER, CW/MECHANICAL.
3. OWNER WILL REMOVE PROJECTOR PRIOR TO CONSTRUCTION.
4. OWNER WILL REMOVE PA SPEAKERS PRIOR TO CONSTRUCTION.
5. REMOVE EXISTING CEILING TILES, CW/OWNER FOR SALVAGE. GRID REMAINS. PREPARE TO PATCH GRID TO MATCH EXISTING AS NEEDED WHERE EQUIPMENT OR FIXTURES ARE REMOVED.
6. ALL RECESSED CAN LIGHTS ARE REMOVED. RETURN TO OWNER.
7. NOT USED.
8. TEMPORARY PARTITION WALL. WALL SHALL STOP AT CEILING GRID. RE: A4.1-3 FOR DETAIL. GYPSUM BOARD BOTH SIDES AND FINISH EAST SIDE (OCCUPIED TENANT SPACE) ON WALL TO A LEVEL 5 FINISH TO MATCH ADJACENT WALLS. TAPE AND ONE LAYER SPACKLE OPPOSITE SIDE WALL. WALL SHALL REMAIN UNTIL ADJACENT SPACE IS BUILT OUT AT A FUTURE DATE.
9. POTENTIAL LOCATION OF TEMPORARY CONSTRUCTION/DUST WALL. CONTRACTOR TO CW/CITY OF BOISE FOR APPROVED LAYOUT.
10. JOG TEMPORARY WALL SO IT DOES NOT RUN THROUGH EXISTING LIGHT FIXTURES AND RETURN AIR GRILLE WHICH ARE TO REMAIN. WALL SHALL RUN ON THE EAST SIDE OF THESE FIXTURES.
11. FRAME TEMPORARY WALL TO TRAVEL UNDER EXISTING DIFFUSER.





### LEGEND:

- INDICATES NEW CONSTRUCTION
- INDICATES CONSTRUCTION TO REMAIN AND BE PROTECTED.
- NO WORK IN THIS AREA.
- INDICATES LINE OF TEMPORARY WALL.

### GENERAL NOTES:

- LOCATE HINGE SIDE OF DOOR JAMBS 4" FROM INSIDE CORNER OF ADJACENT WALLS, UNLESS NOTED OTHERWISE.
- PROVIDE WOOD BLOCKING OR EQUAL SHEET METAL BACKING STRIP IN PARTITION WALLS WHERE REQUIRED FOR ANCHORING WALL MOUNTED EQUIPMENT, CABINETS, FIXTURES, ETC.
- TENANT PROVIDED EQUIPMENT AND FURNITURE TO BE PLACED AND INSTALLED BY TENANT UNLESS NOTED OTHERWISE.
- COORDINATE DESIGN BUILD SPRINKLER SYSTEM MODIFICATION WITH NEW WALL LAYOUT.
- REFER TO A4.1-3 FOR PARTITION BRACING AT CEILING.

### # SHEET NOTES:

- NEW CARPET TO EXISTING CARPET TRANSITION; ADJUST SO TOP OF FLOOR FINISHES ARE FLUSH.
- ALIGN FINISHED SURFACE OF WALLS BELOW NEW GLAZING.
- OWNER PROVIDED FURNITURE.
- NEW WINDOW COVERINGS. RE: MATERIALS KEY, A3.1.
- FINISH ALL SURFACES TO MATCH ADJACENT CONDITIONS.
- NEW CARD READER, CW/OWNER AND APEX SECURITY FOR INSTALLATION.
- IF ADD ALTERNATE NO. ONE IS NOT ACCEPTED PROVIDE NEW FILLER PANELS TO FIT FLUSH WITH EXISTING CUSTOM FABRICATED ELECTRICAL RACEWAY WITH MATCHING FINISHES. PROVIDE INTERNAL BLOCKING AND ANCHORS AS REQUIRED. PROVIDE MATCHING ACOUSTICAL WALL PANEL INFILL FROM TOP OF RACEWAY TO WINDOW SILL.
- REINSTALL SALVAGED SMALLER-SIZED ACOUSTICAL WALL PANELS SO THAT THEY ARE SPACED EVENLY DISTRIBUTED UNDER THE WINDOWS (APPROXIMATELY EVERY OTHER WINDOW).
- ADD ALTERNATE NO. ONE: REPLACE ELECTRICAL RACEWAY PANEL COVER, RE: FINISH SCHEDULE.
- REINSTALL SALVAGED ACOUSTICAL PANELS, RE: A4.1-6.
- INSTALL 3-DOOR, 95"Hx60"Wx25"D SALVAGED STORAGE CABINET FROM STORAGE ROOM. PROVIDE BRACING IN WALL AS NEEDED.
- INSTALL SALVAGED LOWER CABINET FROM STORAGE ROOM. PROVIDE BRACING IN WALL AS NEEDED. INSTALL NEW COUNTER, BACKSPLASH AND CABINET DOORS. RE: A4.1-6 FOR EXACT PLACEMENT OF MILLWORK. RE: MATERIALS KEY.

- SMALL PRINTER AND FAX MACHINES BY OWNER, RE: A4.1-6.
- LARGER PRINTER/COPIER BY OWNER, RE: A4.1-6.
- NEW OWNER PROVIDED 75" FLAT SCREEN TV AND MOUNTING BRACKET. PROVIDE STUD BLOCKING (IN WALL) FOR TV MOUNT. CW/ELECTRICAL FOR POWER AND DATA.
- FUR OUT COLUMNS FOR CONDUIT PATHS AND TVS; 5'-10" WIDE CENTERED ON COLUMN. CENTER STUDS @ 16" O.C. SO THERE IS A STUD 8" EITHER SIDE OF THE CENTER OF THE COLUMN.
- TEMPORARY PARTITION WALL. WALL SHALL STOP AT CEILING GRID. RE: A4.1-3 FOR DETAIL. GYPSUM BOARD BOTH SIDES AND FINISH EAST SIDE (OCCUPIED TENANT SPACE) OF WALL TO A LEVEL 5 FINISH TO MATCH ADJACENT WALLS. TAPE AND ONE LAYER SPACKLE OPPOSITE SIDE WALL. WALL SHALL REMAIN UNTIL ADJACENT SPACE IS BUILT OUT AT A FUTURE DATE.

### WALL ASSEMBLIES:

- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD, EACH SIDE, UNLESS NOTED OTHERWISE.
- 3-1/2" 25 GA. STEEL STUDS @ 16" O.C., WHERE DISCREPANCIES OCCUR, MATCH EXISTING STUD FRAMING WHERE REQUIRED.
- UNFACED BATT INSULATION.

**W01**  
**W01A**

NON RATED - AS SHOWN WITH UNFACED BATT INSULATION TO MATCH FRAMING WIDTH.

NON RATED - AS SHOWN WITHOUT UNFACED BATT INSULATION WHERE INDICATED.

•NOTE: ALL NEW WALLS ARE W01 UNLESS NOTED OTHERWISE.



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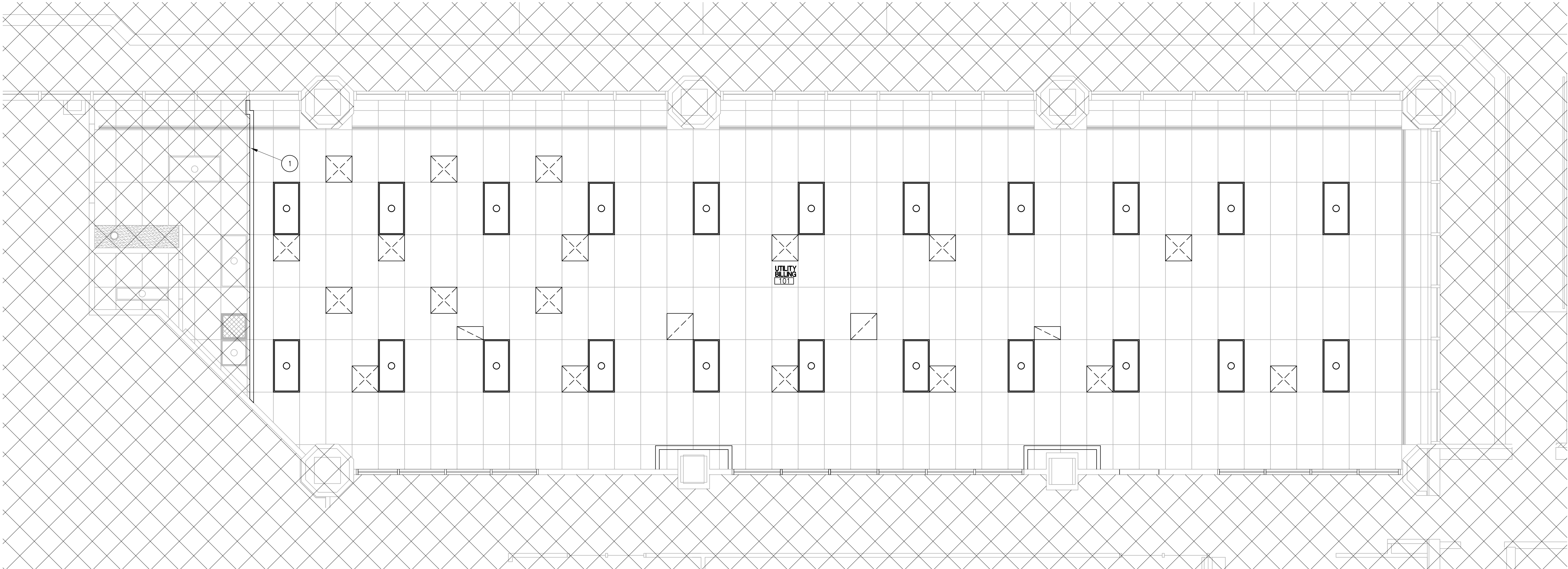
PROJECT 15209	DATE 12-23-2015
DRAWN DRG	CHECKED MAH

REVISED 1	OWNER REVISIONS 1-7-2016
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SHEET TITLE  
**FLOOR PLAN**

SHEET  
**A2.1**  
ORIGINAL SHEET SIZE  
24" x 36"





**1 REFLECTED CEILING PLAN**  
SCALE 1/4" = 1'-0"

**LEGEND:**

- INDICATES NEW CONSTRUCTION.
- INDICATES CONSTRUCTION TO REMAIN AND BE PROTECTED.
- NO WORK IN THIS AREA.
- EXISTING 2X4 SUSPENDED ACOUSTICAL TILE CEILING GRID AND NEW CEILING TILE, RE: FINISH SCHEDULE.

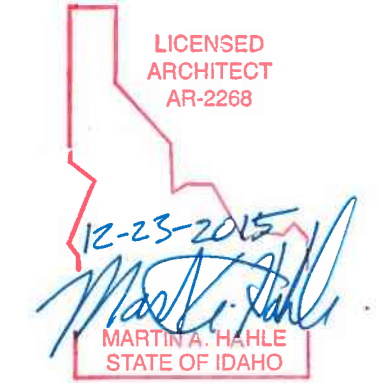
- NEW LIGHT FIXTURES, CW/ELECTRICAL.
- NEW SUPPLY AIR DIFFUSER, CW/MECHANICAL.
- NEW RETURN AIR GRILLE, CW/MECHANICAL.
- EXISTING LIGHT FIXTURES, CW/ELECTRICAL.
- EXISTING RETURN AIR GRILLE, CW/MECHANICAL.

**GENERAL NOTES:**

- A. CEILING MOUNTED LIGHT FIXTURES SHOWN FOR COORDINATION PURPOSES ONLY, CW/ELECTRICAL FOR SPECIFICATIONS AND REQUIREMENTS.
- B. COORDINATE SPRINKLER SYSTEM MODIFICATION WITH NEW WALL LAYOUT.

**# SHEET NOTES:**

- 1. TEMPORARY PARTITION WALL. WALL SHALL STOP AT CEILING GRID, RE: A4.1-3 FOR DETAIL. GYPSUM BOARD BOTH SIDES AND FINISH EAST SIDE (OCCUPIED TENANT SPACE) OF WALL TO A LEVEL 5 FINISH TO MATCH ADJACENT WALLS. TAPE AND ONE LAYER SPACKLE OPPOSITE SIDE WALL. WALL SHALL REMAIN UNTIL ADJACENT SPACE IS BUILT OUT AT A FUTURE DATE.



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SHEET TITLE  
**REFLECTED  
CEILING  
PLAN**

SHEET

**A2.2**  
ORIGINAL SHEET SIZE  
24" x 36"







CISCA STANDARD 0-2

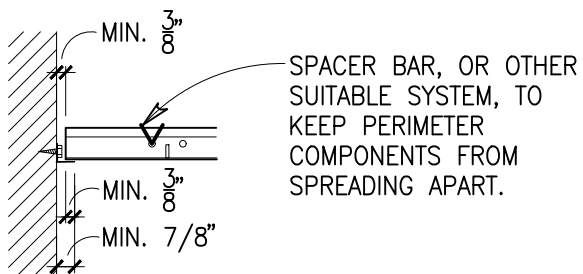


FIGURE 1

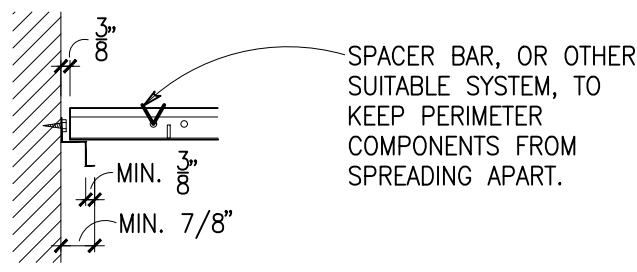


FIGURE 2

- 12 GA. HANGER WIRE PERIMETER SUPPORTS TWO ALTERNATIVES:
- 1.) 12 GA. HANGER WIRE ANCHORED TO STRUCTURE ABOVE AND HUNG VERTICALLY ( $\pm 10^\circ$ ) A MAX. OF 8 IN. FROM THE PERIMETER.
  - 2.) 12 GA. HANGER WIRE ANCHORED TO PERIMETER WALL. ATTACHMENT TO GRID MAY BE WITHIN 8 IN. FROM THE WALL, BUT THE WALL ATTACHMENT WIRE MUST NOT EXCEED A 1/6 SLOPE ( $\pm 10^\circ$ )

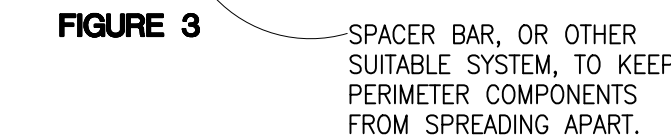


FIGURE 3

1 SUSPENDED CEILING DETAILS  
SCALE 1 1/2"=1'

CEILING ADVICE FOR ZONE 2 OR LESS:

UBCS HAD NO REQUIREMENTS FOR CEILINGS IN ZONES 1 AND 0. THE SEISMIC ZONES GIVEN IN UBC, BOCA, OR SBC WERE WEIGHTED IN TERMS OF ANTICIPATED RISK OF FUTURE EARTHQUAKE OCCURRENCE. AS HAS BEEN DEMONSTRATED REPEATEDLY BY HISTORY, EARTHQUAKES CAN OCCUR ANYWHERE. IT SHOULD BE NOTED THAT 80% OF THE UNITED STATES IS WITHIN SEISMIC ZONE 2 OR LESS. UBC, SBC, AND BOCA UTILIZE SIMILAR SEISMIC MAPS BASED ON THE NEHRP PROVISIONS.

FOR ZONE 2 OR LESS APPLICATIONS, THE UBCS BRACING REQUIREMENTS AT 12 FT. ON CENTER ARE NOT CONSISTENT WITH LATERAL FORCE COEFFICIENTS OF 0.15 FOR ZONE 2 OR LESS. THE UBCS REQUIREMENTS WERE PREDICATED USING A 0.30 LATERAL ACCELERATION FACTOR AND THE ASSUMPTION THAT THE WIRE BRACING WOULD PROVIDE SUITABLE CEILING RESTRAINT TO PREVENT THE MODE OF FAILURE OBSERVED IN PAST EARTHQUAKES. EXPERIENCE HAS SHOWN THAT THE SPLAY WIRE BRACING DOES NOT PROVIDE FULL DISPLACEMENT RESTRAINT FOR ZONE 4 FORCE LEVELS. THIS IT WOULD PROVIDE ESSENTIALLY NO RESTRAINT FOR DISPLACEMENTS FOR ZONE 2 OR LESS FORCE LEVELS. IT SHOULD NOT BE IMPOSED IN ZONE 2 OR LESS. THE CURRENT INTERSECTION/SPURCE STRENGTH REQUIREMENT IN UBCS OF 180 LBS. IS BASED UPON A RESTRAINED CEILING MEMBRANE WITH ZONE 4 FORCE LEVELS. TO BE CONSISTENT, A TEST STRENGTH LEVEL OF 90 LBS. WOULD BE APPROPRIATE FOR ZONE 2. THIS WOULD LEAD TO DESIGN FORCE VALUES OF 45 LBS. PER INTERSECTION. IF THE CEILING WERE NOT RESTRAINED, THE GRID INTERSECTION WOULD SUSTAIN ONLY MINOR FORCES, GIVEN THAT SUFFICIENT CLEARANCE AT PERIMETER AND COLUMN CLOSURES IS PROVIDED TO ALLOW RIGID BODY MOTION OF THE SUSPENDED CEILING MEMBRANE. IN A REAL WORLD SITUATION, HOWEVER, WE SHOULD EXPECT THAT SOME INADVERTENT RESTRAINT WOULD OCCUR, LEADING TO FORCE TRANSFER THROUGH THE GRID INTERSECTIONS. THUS, IT WOULD APPEAR PRUDENT TO SPECIFY A MINIMUM CONNECTION STRENGTH FOR CEILING GRID INTERSECTION/SPURCES, EVEN IN ZONE 0, SINCE WE NOTE THAT THE BASIC PROVISIONS THAT PROVIDE THE SEISMIC INTEGRITY OF A SUSPENDED CEILING ARE:

1. INDEPENDENT SAFETY WIRES ON LIGHT FIXTURES TO PREVENT DROPOUT AND
2. MINIMUM STRENGTH REQUIREMENTS FOR SPURCES AND CROSS RUNNER/MAIN RUNNER INTERSECTIONS.

THESE BASIC PROVISIONS ARE ALSO LISTED IN APPROXIMATE ORDER OF PRIORITY. THE IDEA OF A BASIC CONNECTION STRENGTH REGARDLESS OF SEISMIC ZONE IS NOT NEW. IN FACT, THE BOCA AND SBC HAVE INCORPORATED SUCH RECOMMENDATIONS FOR STRUCTURAL CONNECTIONS. USING THESE RECOMMENDATIONS AND ASSUMING INADVERTENT RESTRAINT OF A 12 FT. X 12 FT. CEILING AREA WITH 4 PSF, WE OBTAIN AN APPROXIMATE DESIGN VALUE OF 30 LBS. OR AN INTERSECTION/SPURCE TEST STRENGTH OF 60 LBS.

CEILING ADVICE FOR ZONES 0-2:

THE FOLLOWING SEISMIC PROVISIONS ARE NOT BASED ON DIRECT ANALYSIS, BUT RATHER A JUDGMENT THAT CERTAIN MINIMUM INSTALLATION REQUIREMENTS ARE NECESSARY WITHOUT REGARD TO SEISMIC ZONE.

SINCE SPLAY WIRE RESTRAINTS ONLY FUNCTION IF CEILINGS HAVE SUBSTANTIAL DISPLACEMENT, IT DOES NOT APPEAR NECESSARY TO PROVIDE SUCH RESTRAINT IN MODERATE OR LOW-RISK SEISMIC AREAS (ZONES 0-2). A CEILING SYSTEM THAT IS SUFFICIENTLY UNRESTRAINED FREE TO ACCOMMODATE THE MOVEMENT OF A STRUCTURE CAN PROVIDE THE DESIRED PERFORMANCE DURING A SEISMIC EVENT GIVEN THAT CERTAIN SPECIFIED INSTALLATION DETAILS ARE MET.

THE RECOMMENDATIONS CONTAINED HEREIN ARE LIMITED TO DIRECT-HUNG ACOUSTICAL TILE OR LAY-IN PANEL CEILINGS AS DEFINED IN ASTM C635. ALL DYNAMIC TESTS CONDUCTED TO DATE ALSO HAVE UTILIZED THIS CONFIGURATION.

PROVISIONS APPLICABLE IN ZONE 2, IBC SEISMIC DESIGN CLASS C  
THE INTENT OF THE FOLLOWING PROVISIONS IS TO PROVIDE AN UNRESTRAINED CEILING SYSTEM THAT WILL ACCOMMODATE THE MOVEMENT OF THE STRUCTURE DURING A SEISMIC EVENT. THE OBJECTIVE IS TO HAVE A FREE-FLOATING CEILING. DYNAMIC TESTING OF A CEILING FOR RESPONSE MOTIONS CONSISTENT WITH ZONE 2 LATERAL FORCE LEVELS HAS VALIDATED THE CONCEPT.

- 1) EACH INDIVIDUAL FIXTURE AND ATTACHMENTS WITH A COMBINED WEIGHT OF 56 LBS. OR LESS SHALL HAVE TWO NO. 12 GAUGE WIRE HANGERS ATTACHED AT DIAGONAL CORNERS OF THE FIXTURE. THESE WIRES MUST BE SLACK, ANY FIXTURE AND ATTACHMENTS WITH A COMBINED WEIGHT GREATER THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
- 2) THE MAIN RUNNER/CROSS RUNNER INTERSECTIONS AND ALL GRID SPURCES MUST HAVE AN AVERAGE ULTIMATE TEST STRENGTH OF 60 LBS. OR MORE IN BOTH TENSION AND COMPRESSION. THE TENSILE TEST MUST ALLOW FOR A 2" OFFSET OF THE CONNECTION IN ANY DIRECTION.
- 3) THE ACTUAL AVERAGE WEIGHT OF THE CEILING SYSTEM, INCLUDING GRID, PANELS OR TILE, LIGHT FIXTURES, AND AIR TERMINALS, MUST BE 2.5 PSF OR LESS. ALL OTHER SERVICES MUST BE SUPPORTED INDEPENDENTLY FROM THE CEILING SYSTEM. FOR CEILINGS THAT HAVE AN AVERAGE WEIGHT GREATER THAN 2.5 PSF, THE CEILING MAY BE INSTALLED AS SPECIFIED IN ZONE 3-4 PROVISIONS, TAKING INTO ACCOUNT THE DESIGN LATERAL FORCE FACTOR APPROPRIATE FOR ZONE 2. OTHER DEVIATIONS OR VARIATIONS MUST BE SUBSTITUTED BY VERIFIABLE ENGINEERING DATA.

5) ALL PERIMETER CLOSURE ANGLES OR CHANNELS MUST PROVIDE A SUPPORT LEDGE OF APPROXIMATELY 7/8 IN. OR GREATER. A TERMINAL END OF A GRID MEMBER (OR TILE) MUST REST ON THE LEDGE OR MOLDING WITH AT LEAST 3/8-IN. CLEARANCE FROM AN EDGE OR WALL AS SHOWN IN FIGURE 1.

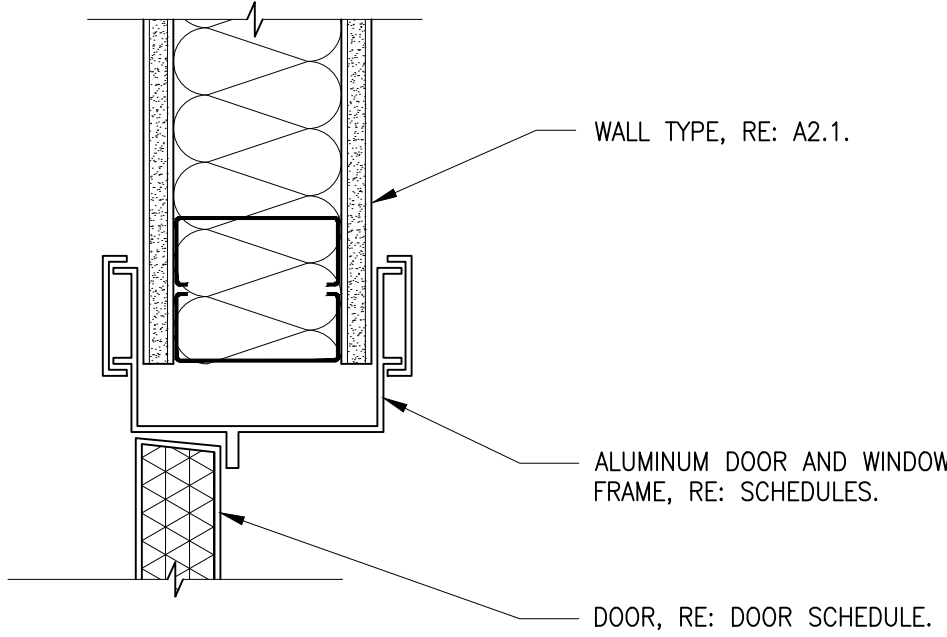
REVEAL (SHADOW) EDGE WALL CLOSURES SHOULD ACCOMMODATE THESE CLEARANCES AS SHOWN IN FIGURE 2.

FOR PERIMETER CLOSURE ANGLES THAT PROVIDE A SUPPORT LEDGE OF LESS THAN NOTED ABOVE, THE TERMINAL ENDS OF EACH CROSS RUNNER OR MAIN RUNNER SHALL BE INDEPENDENTLY SUPPORTED WITHIN 8 IN. FROM EACH WALL OR CEILING DISCONTINUITY AS SHOWN IN FIGURE 3. THIS SUPPORT MAY BE A NO. 12 GAUGE HANGER WIRE OR OTHER SUPPORT THAT PREVENTS THE GRID FROM FALLING. THIS WIRE DOES NOT NEED TO BE VERTICAL BUT SHOULD NOT HAVE A SLOPE GREATER THAN 1 IN 6 OUT-OF-PLUMB. A 3/8 IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.

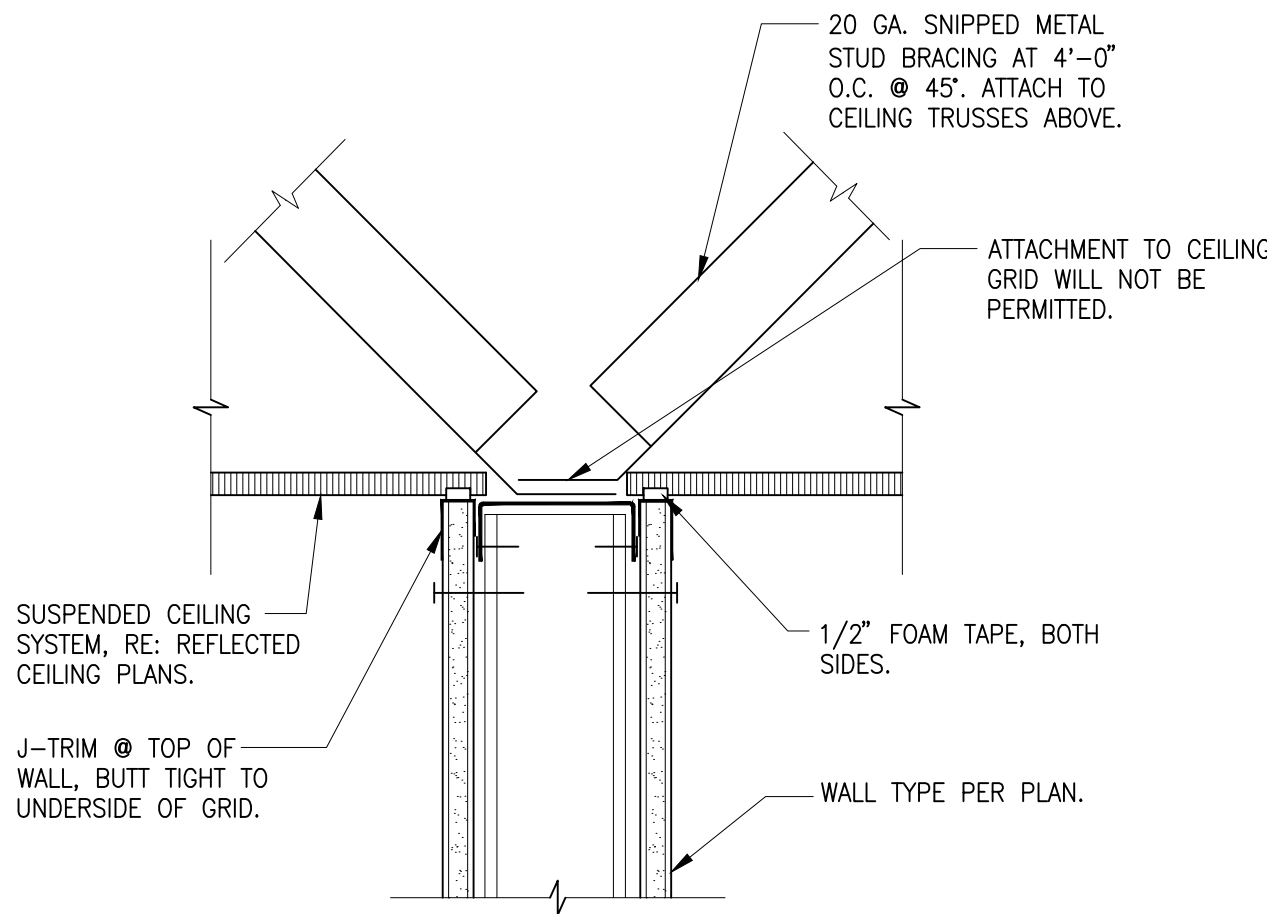
ALL CEILING PENETRATIONS (COLUMNS, SPRINKLERS, ETC.) AND INDEPENDENTLY SUPPORTED FIXTURES OR SERVICES ARE TO BE CONSIDERED AS PERIMETER CLOSURES THAT ALSO MUST ALLOW THE NOTED CLEARANCES BY USING SUITABLE ESCUTCHEONS OR CLOSURE DETAILS.

6) AT WALL CLOSURE LEDGES, THE CROSS RUNNER AND MAIN RUNNER ENDS SHALL BE PREVENTED FROM SPREADING APART FROM EACH OTHER. PERMANENT ATTACHMENT (I.E., POP RIVETS) FOR GRID ALIGNMENT PURPOSES SHALL NOT BE PERMITTED.

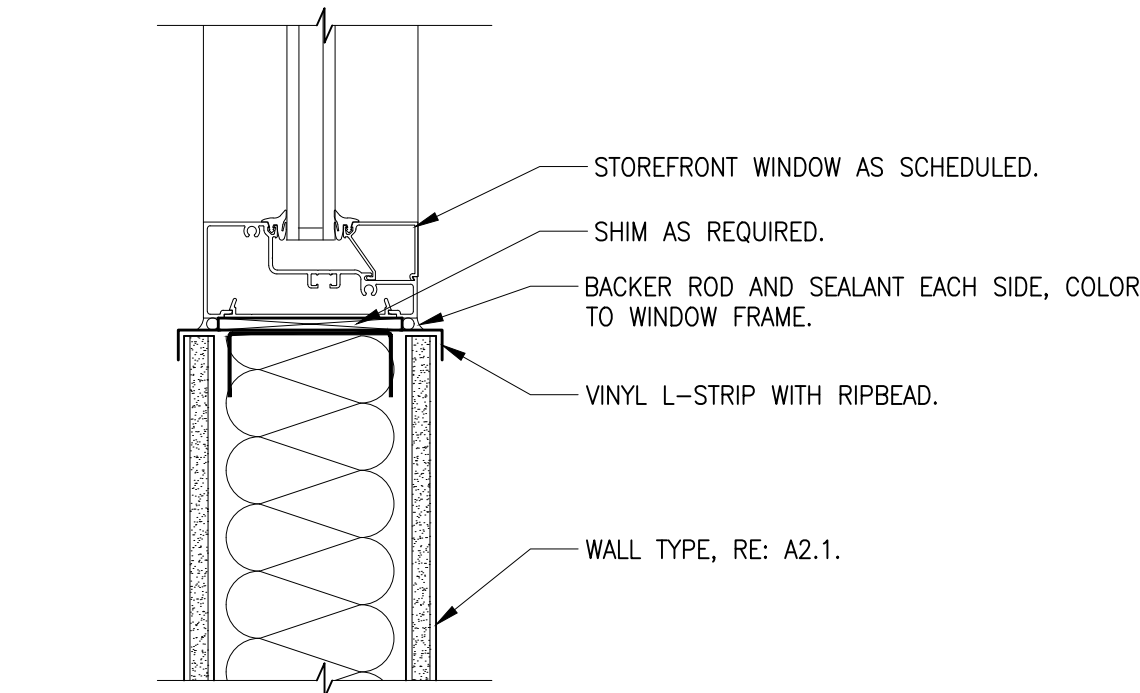
7) FOR ESSENTIAL FACILITIES, AS DEFINED BY THE IBC, IN ADDITION TO THE REQUIREMENTS IN ITEM 5, A MINIMUM 7/8" WALL ANGLE AND PERIMETER SUPPORT OF EACH CROSS RUNNER AND MAIN RUNNER, IS REQUIRED. IN ADDITION, A 1/2 IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.



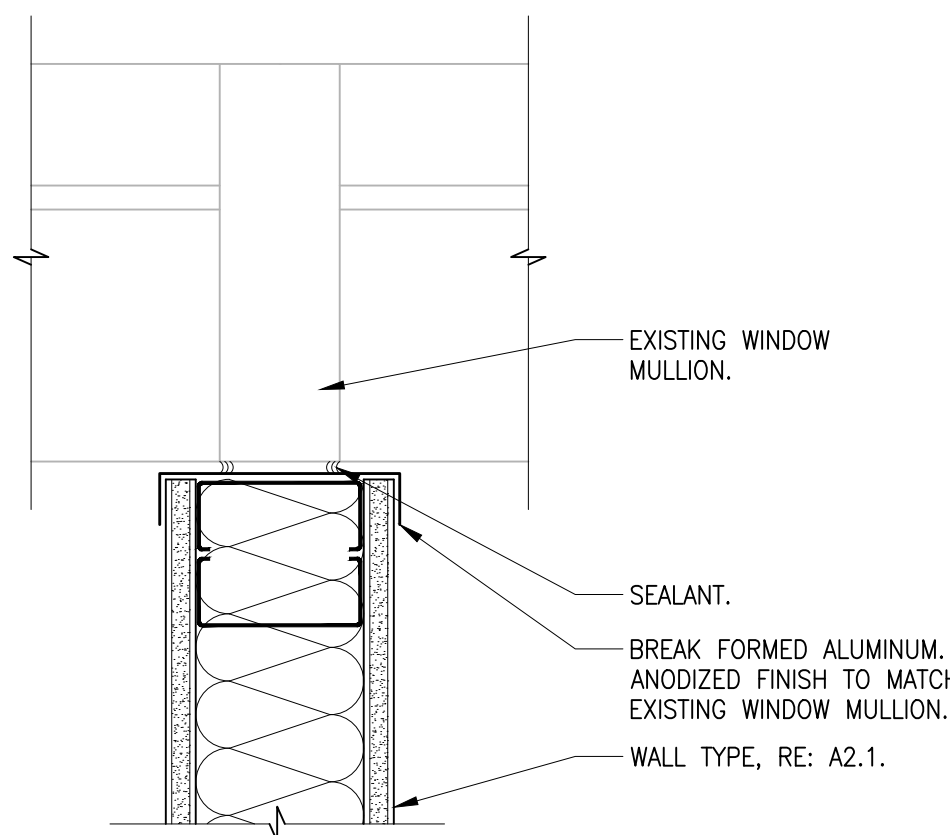
2 DOOR JAMB DETAIL  
SCALE 3"=1'



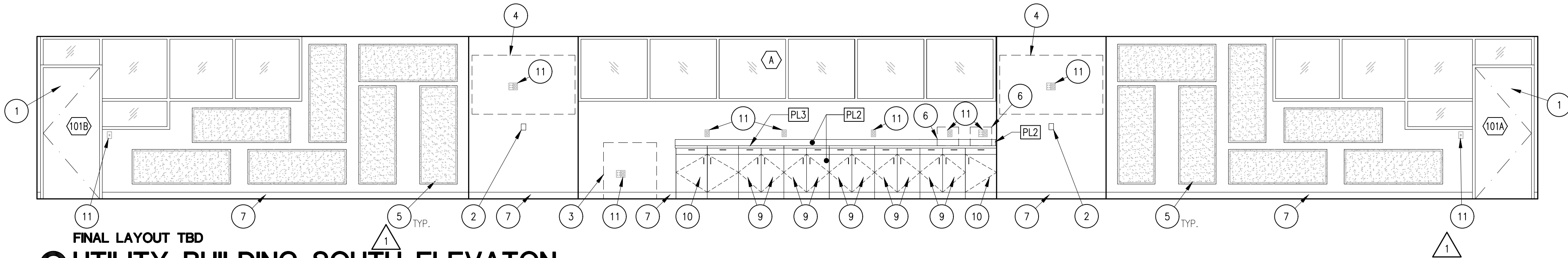
3 PARTITION BRACING @ CEILING  
SCALE 3"=1'



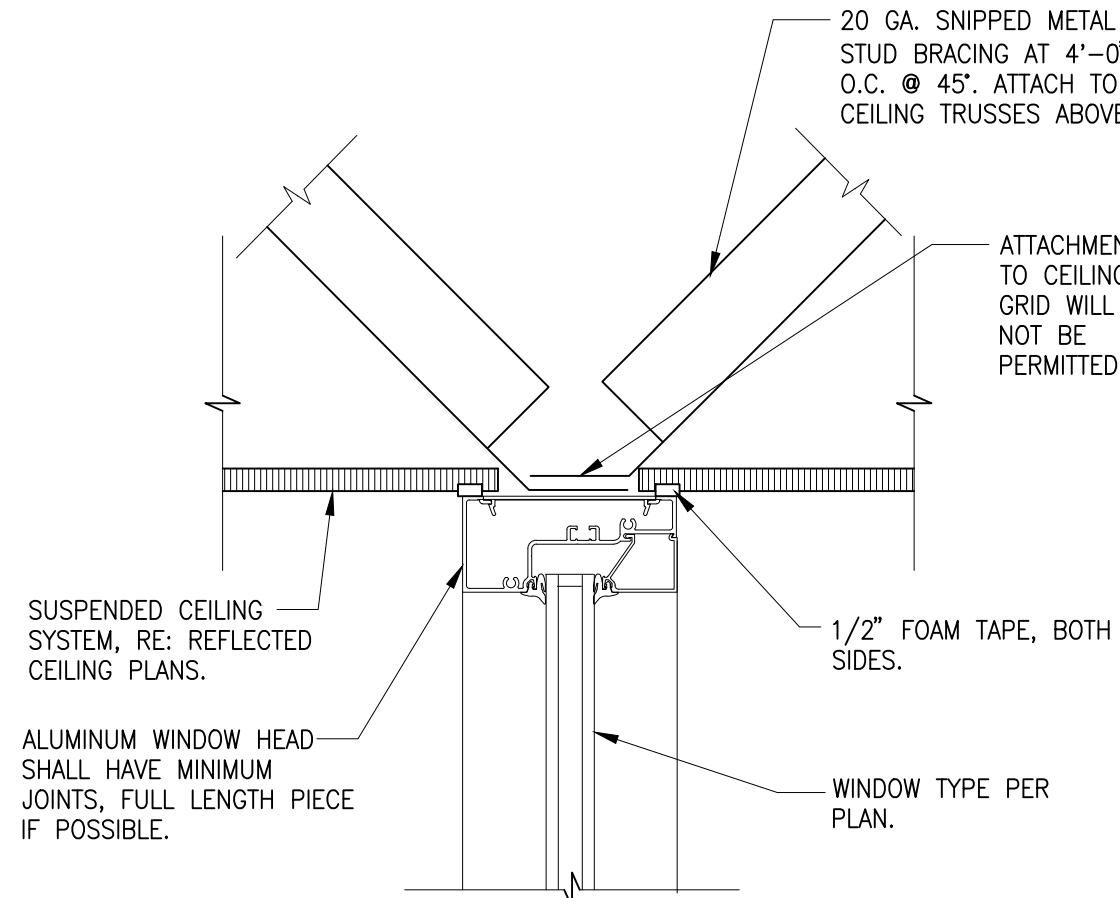
4 WINDOW SILL DETAIL  
SCALE 3"=1'



5 TEMP. WALL @ WINDOW MULLION  
SCALE 3"=1'



6 UTILITY BUILDING SOUTH ELEVATION  
SCALE 1/4" = 1'-0"



7 WINDOW HEAD  
SCALE 3"=1'

SHEET NOTES:

1. NEW DOOR, RE: DOOR SCHEDULE.
2. THERMOSTAT, CW/MECHANICAL.
3. LARGE PRINT/COPIER MACHINE BY OWNER.
4. NEW OWNER PROVIDED 75" FLAT SCREEN TV AND MOUNTING BRACKET. PROVIDE STUD BLOCKING (IN WALL) FOR TV MOUNT. CW/ELECTRICAL FOR POWER AND DATA.
5. REINSTALL SALVAGED ACOUSTICAL WALL PANELS, CW/OWNER.
6. SMALL PRINTER AND FAX MACHINES BY OWNER.
7. NEW WALL BASE, RE: MATERIALS KEY, A3.1.
8. NOT USED.
9. REUSED 29" WIDE DUAL-BAY MILLWORK WITH NEW COUNTER TOP, BACKSPLASH, AND DOORS.
10. REUSED 20" WIDE SINGLE-BAY MILLWORK WITH NEW COUNTER TOP, BACKSPLASH, AND DOORS.
11. ELECTRICAL OUTLET, LIGHT SWITCH OR DATA OUTLET SHOWN FOR REFERENCE ONLY, CW/ELECTRICAL. CW/OWNER FOR FINAL PLACEMENT OF ACOUSTICAL WALL PANELS; MAY BE ADJUSTED TO AVOID COVERING OUTLETS.

BOISE CITY - UTILITY BILLING  
150 N. CAPITOL BLVD.  
BOISE, ID

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PROJECT 15209	DATE 12-23-2015
DRAWN DRG	CHECKED MAH

REVISED 1	OWNER REVISIONS 1-7-2016
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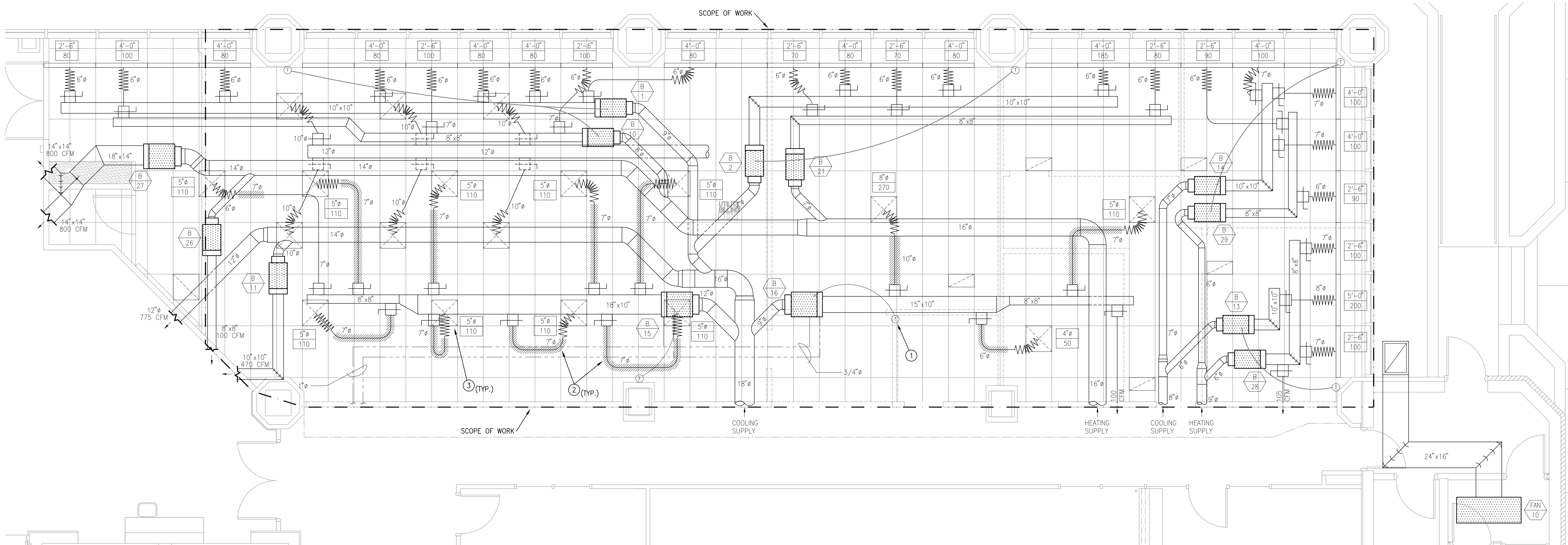
SHEET TITLE  
DETAILS & ELEVATIONS

SHEET  
A4.1  
ORIGINAL SHEET SIZE  
24" x 36"

MARTIN A. HAHLE ARCHITECT  
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LICENSED ARCHITECT  
AP-2268  
1-7-2016  
MARTIN A. HAHLE  
STATE OF IDAHO





**HVAC DEMO PLAN**  
SCALE 1/4" = 1'-0"

**EXISTING VAV BOX SCHEDULE**

REFERENCE	MARK	MANUFACTURER	MODEL	MAX CFM	PRESSURE DROP (IN WC)	AIR INLET	AIR OUTLET	SYSTEM	HEATING SECTION		
									BTU MAX	GPM	LAT
	B-1	TUTTLE & BAILEY	MPM-MVC	480	.75	7"	15"x6"	COOL			
	B-2	TUTTLE & BAILEY	MPM-MVC	345	.75	6"	12"x5"	COOL			
	B-10	TUTTLE & BAILEY	MPM-MVC	300	.75	6"	12"x5"	HEAT			
	B-13	TUTTLE & BAILEY	MPM-MVC	200	.90	5"	10"x4"	COOL			
	B-14	TUTTLE & BAILEY	MPM-MVC	300	.75	5"	10"x4"	COOL			
	B-15	TUTTLE & BAILEY	MPM-MVC	350	.80	8"	18"x6"	HEAT/COOL	23,500	2.4	110'
	B-16	TUTTLE & BAILEY	MPM-MVC	220	.75	7"	15"x6"	HEAT/COOL	16,500	1.7	110'
	B-21	TUTTLE & BAILEY	MPM-MVC	220	.75	5"	10"x4"	HEAT			
	B-28	TUTTLE & BAILEY	MPM-MVC	305	.75	5"	10"x4"	HEAT			
	B-29	TUTTLE & BAILEY	MPM-MVC	180	.75	5"	10"x4"	HEAT			

**INTENT OF WORK:**

THE PERIMETER SYSTEM PROVIDES HEATING AND COOLING THROUGH ALTERNATING DIFFUSERS. THE INTERIOR SYSTEM PROVIDES AIR FROM THE COOLING SUPPLY, BUT THE VAV BOXES THAT SERVE THE SPACE HAVE REHEAT COILS TO HEAT THIS AIR AS NECESSARY. THE BRANCH INSTALLED BY THE CITY PROVIDES ONLY HEATING.

THE EXISTING HEATING AND COOLING SYSTEMS PROVIDE ADEQUATE CAPACITY FOR THE SPACE. THE INTENT OF THE DEMOLITION AND NEW WORK IS TO RELOCATE THE INTERIOR DIFFUSERS AND GRILLES TO BETTER DISTRIBUTE AIR TO THE REMODELED FLOOR PLAN. THE PERIMETER SLOT DIFFUSERS PROVIDE COVERAGE TO THE EXTERIOR OF THE SPACE, AND DO NOT NEED TO BE RELOCATED OR ADJUSTED.

THE MAXIMUM AIRFLOW VALUES FOR HEATING AND COOLING OCCUR WHEN ALL APPLICABLE VAV TERMINAL BOXES ARE PROVIDING MAXIMUM AIRFLOW. VAV TERMINAL BOXES B-15 AND B-16 INCLUDE REHEAT COILS, AND CAN PROVIDE HEATING OR COOLING TO THE SPACE, RE: VAV BOX SCHEDULE.

TOTAL MAX HEATING AIRFLOW: 2370 CFM

TOTAL MAX COOLING AIRFLOW: 3045 CFM

**WET-PIPE SPRINKLER SYSTEM DESIGN/BUILD SPECIFICATIONS:**

- SUMMARY OF WORK
  - MODIFY THE EXISTING SPRINKLER HEAD AND SPRINKLER PIPING LAYOUT TO ACCOMMODATE ANY NEW CEILING GRID, SOFFITS, AND WALLS FOR THE TENANT IMPROVEMENT. EXISTING SYSTEM IS STEEL PIPING WITH CRIMPED CONNECTIONS. NEW PIPING AND CONNECTIONS SHALL MATCH EXISTING SYSTEM.
  - WORK REQUIRING SYSTEM DOWN TIME SHALL BE DONE AT NIGHT OR PROVIDE FIRE WATCH.
- INFORMATIONAL SUBMITTALS
  - APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA 13, THAT HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS IF APPLICABLE.
  - FIELD TEST REPORTS AND CERTIFICATES: INDICATE AND INTERPRET TEST RESULTS FOR COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND AS DESCRIBED IN NFPA 13. INCLUDE "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING."
- QUALITY ASSURANCE
  - INSTALLER QUALIFICATIONS:
    - INSTALLER'S RESPONSIBILITIES INCLUDE DESIGNING, FABRICATING, AND INSTALLING SPRINKLER SYSTEMS AND PROVIDING PROFESSIONAL SERVICES NEEDED TO ASSUME RESPONSIBILITY. BASE CALCULATIONS ON RESULTS OF FIRE-HYDRANT FLOW TEST. DESIGNER SHALL HAVE MINIMUM NICET LEVEL III CERTIFICATION.
- PERFORMANCE REQUIREMENTS
  - SPRINKLER SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION, AND TESTING SHALL COMPLY WITH NFPA 13.
  - STANDARD-PRESSURE PIPING SYSTEM COMPONENT: LISTED FOR 175 PSIG MINIMUM WORKING PRESSURE.
  - SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION.
  - SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS: ORDINARY HAZARD GROUP 1.
- PIPING DESIGN:
  - ORDINARY-HAZARD, GROUP 1 OCCUPANCY: 0.15 GPM OVER 1500-SQ. FT. AREA.
  - MAXIMUM PROTECTION AREA PER SPRINKLER: ACCORDING TO UL LISTING.

**# SHEET NOTES:**

- RELOCATE EXISTING THERMOSTAT, RE: M2.1.
- DEMOLISH AND REMOVE DUCTWORK AS INDICATED BY HATCHING UP TO, BUT NOT INCLUDING, TAKE-OFFS. NEW DUCTWORK TO BE CONNECTED TO EXISTING TAKE-OFFS, RE: M2.1. PRESERVE AND REUSE TRANSITIONS AND DAMPERS WHERE POSSIBLE.
- DEMOLISH AND REMOVE EXISTING DIFFUSERS AND GRILLES. TYPICAL OF ALL DIFFUSERS EXCLUDING PERIMETER SLOT DIFFUSERS. NEW DIFFUSERS AND GRILLES TO BE INSTALLED AS NEW WORK, RE: M2.1.

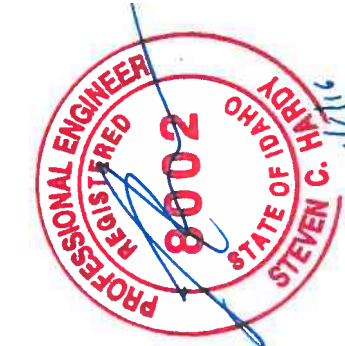
**LEGEND:**

	SUPPLY DIFFUSER (D)		DUCT (D)
	RETURN GRILLE (D)		DUCT (E)
	SLOT DIFFUSER (D)		MECHANICAL EQUIPMENT (E)
	BALANCE DAMPER		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	HOT WATER (E)		SMOKE DETECTOR
	HOT WATER RETURN (E)		EQUIPMENT CALLOUT (STANDARD)

CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	ODD	OPPOSED BLADE DAMPER
(D)	DEMOLISH	RA	RETURN AIR
DIA/ø	DIAMETER	RE:	REFERENCE
(E)	EXISTING	RG	RETURN AIR GRILLE
F	FAHRENHEIT	SA	SUPPLY AIR
MAX	MAXIMUM	WC	WATER COLUMN

**GENERAL NOTES:**

- ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT, EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- VERIFY EXISTING FIRE/SMOKE DAMPERS ARE ACCESSIBLE AND OPERATIONAL. VERIFY NEW WORK DOES NOT INTERFERE WITH ACCESS.
- SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL WIRING, PIPING, AND EQUIPMENT IN ALL PLENUMS SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.
- COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.
- DEMOLISH EXISTING DUCTWORK, DIFFUSERS, AND GRILLES AS INDICATED AND REMOVE OFFSITE.
- PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.



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PROJECT	DATE
15209	12-23-2015
DRAWN	CHECKED
SLS	SCH

REVISIONS  
1 OWNER REVISIONS  
1-7-2016

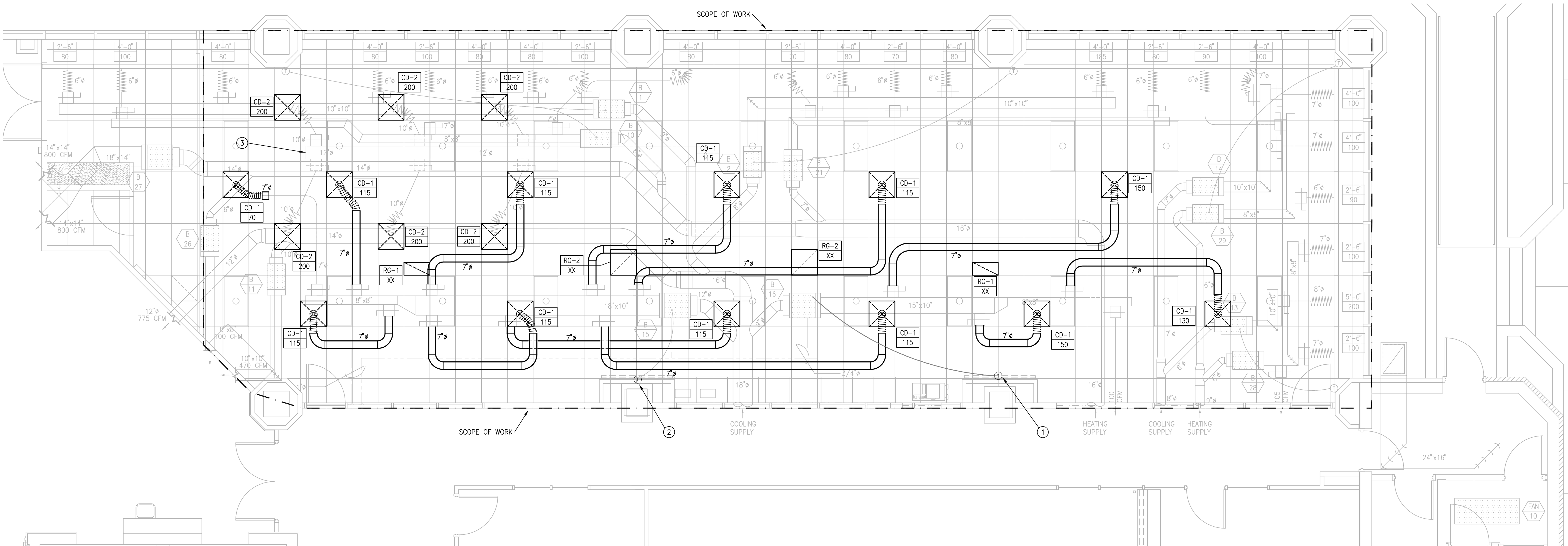
SHEET TITLE  
**HVAC DEMO PLAN**

SHEET

**M1.1**

ORIGINAL SHEET SIZE  
24" x 36"





## DIFFUSER AND GRILLE SCHEDULE

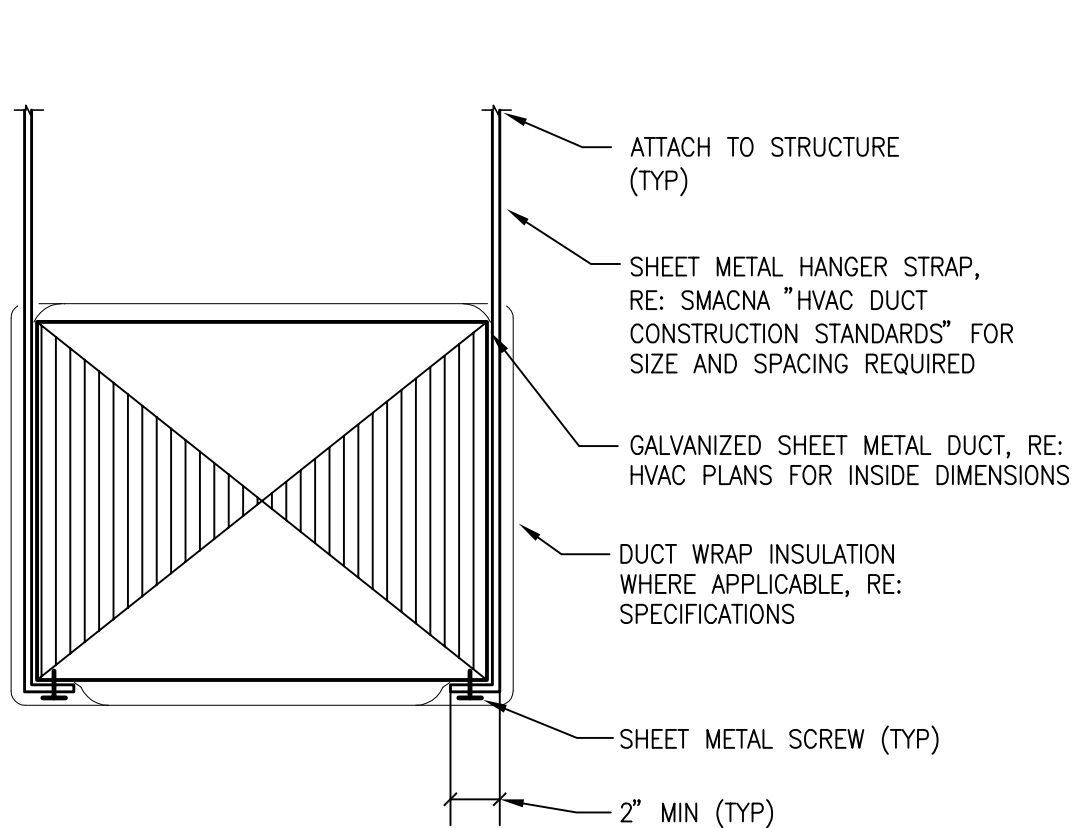
REFERENCE									
MARK	DESCRIPTION	MODEL	FACE TYPE	MOUNTING	FRAME SIZE (NOMINAL)	NECK SIZE	FACE SIZE	MAX CFM	REMARKS
CD-1	SUPPLY DIFFUSER	TUTTLE & BAILEY S1200A	LOUVERED	LAY-IN	24"x24"	6"ø	-	150	①
CD-2	SUPPLY DIFFUSER	TUTTLE & BAILEY S1200A	LOUVERED	LAY-IN	24"x24"	8"ø	-	250	②
RG-1	RETURN GRILLE	TUTTLE & BAILEY T75D	LOUVERED	LAY-IN	24"x12"	-	22"x6"	400	
RG-2	RETURN GRILLE	TUTTLE & BAILEY T75D	LOUVERED	LAY-IN	24"x24"	-	22"x22"	950	

### TYPICAL REQUIREMENTS:

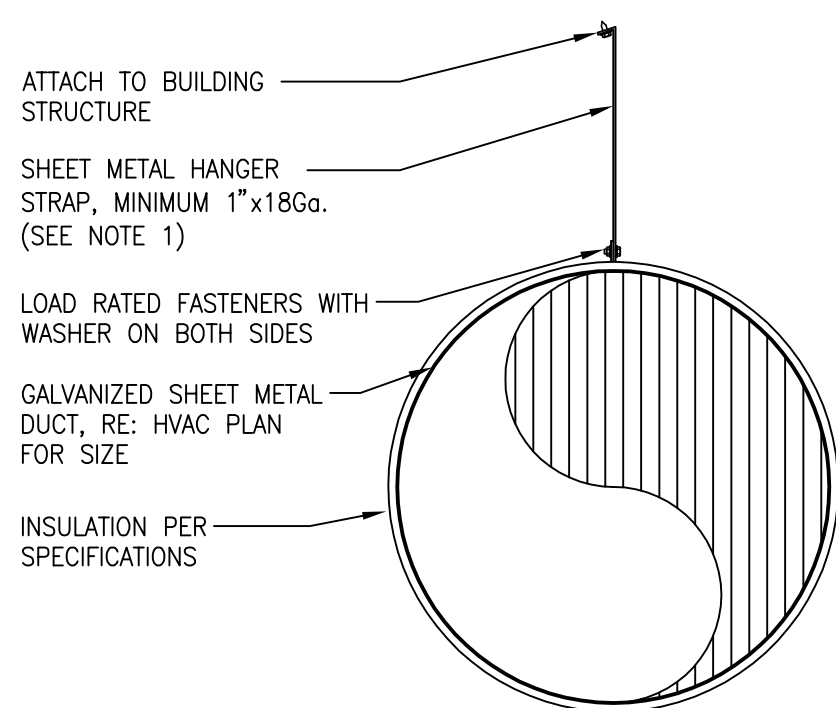
- COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- OWNER TO PROVIDE A PORTION OF DIFFUSERS FROM EXISTING INVENTORY: (7) CD-1 AND (6) CD-2. VERIFY QUANTITIES AND CONDITION OF OWNER'S INVENTORY. COORDINATE WITH OWNER TO PURCHASE ADDITIONAL DIFFUSERS AS NECESSARY TO MATCH AVAILABLE INVENTORY.
- REUSE EXISTING TRANSITIONS AND DAMPERS WHERE POSSIBLE. VERIFY CONDITION. FURNISH NEW TRANSITIONS AND DAMPERS AS NEEDED.

### REMARKS:

- FURNISH TRANSITION FROM 7"ø DUCT TO 6"ø DIFFUSER NECK.
- FURNISH TRANSITION FROM 10"ø DUCT TO 8"ø DIFFUSER NECK.



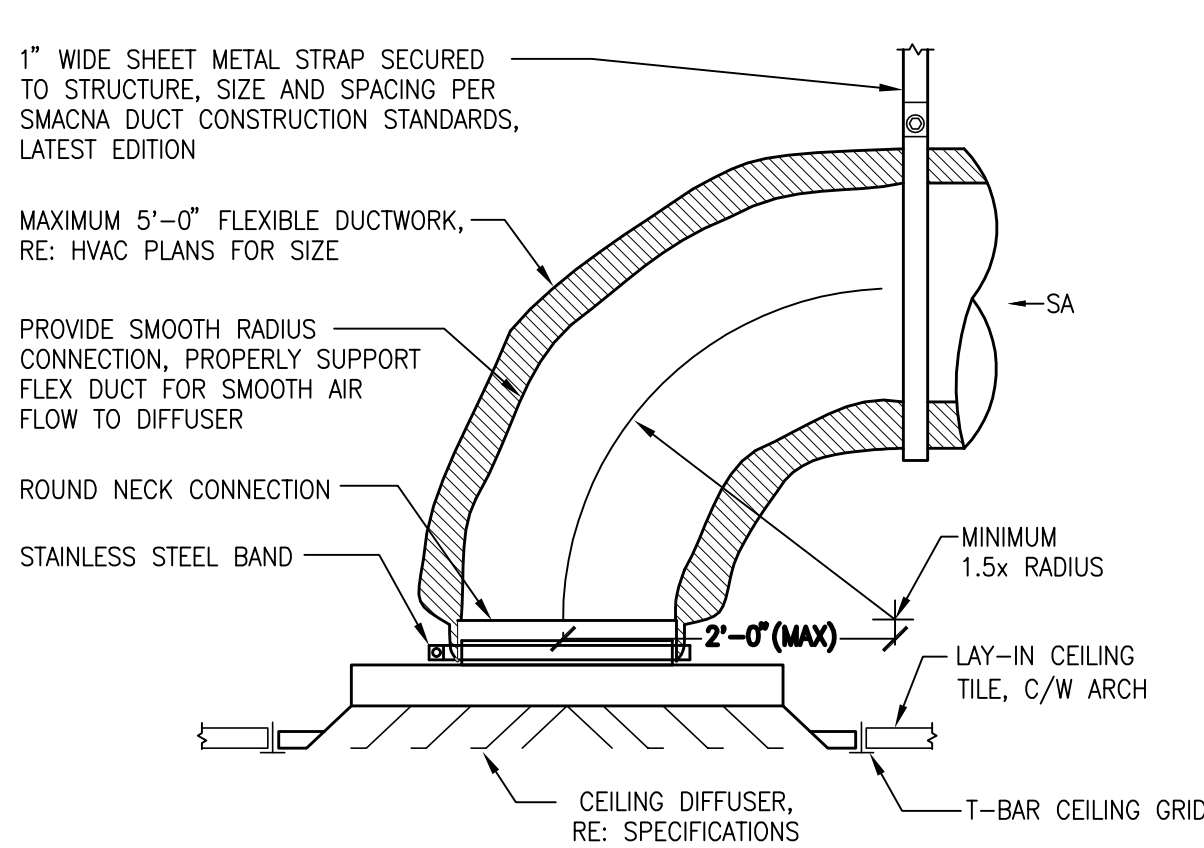
**1 RECTANGULAR DUCT SUPPORT**  
DETAIL  
SCALE: NTS



### NOTES:

- STRAP SIZING AND SPACING SHALL BE DETERMINED FROM SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION.

**2 ROUND DUCT SUPPORT**  
DETAIL  
SCALE: NTS



**3 CEILING DIFFUSER CONNECTION**  
DETAIL  
SCALE: NTS



## HVAC PLAN

SCALE 1/4" = 1'-0"

## GENERAL NOTES:

- REFER TO M1.1 FOR GENERAL NOTES.
- COORDINATE SIZES AND LOCATION OF ALL DUCTWORK AND ALL MECHANICAL EQUIPMENT INSTALLATION REQUIREMENTS WITH STRUCTURAL ELEMENTS PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT ON THE PLANS.
- PROVIDE CONNECTIONS BETWEEN EXISTING DUCTWORK AND DIFFUSERS. VERIFY SIZES OF EXISTING TAKE OFF'S.
- PROVIDE AIR BALANCING FOR CEILING DIFFUSERS TO AIRFLOW VALUES INDICATED ON PLAN FOR ALL VAV BOXES LISTED IN THE EXISTING VAV BOX SCHEDULE ON SHEET M1.1.
- OWNER TO PROVIDE A QUANTITY OF DIFFUSERS FROM EXISTING INVENTORY. VERIFY QUANTITIES AND CONDITION OF OWNER'S INVENTORY. COORDINATE WITH OWNER TO PURCHASE ADDITIONAL DIFFUSERS AS NECESSARY TO MATCH OWNER'S INVENTORY.

## # SHEET NOTES:

- RELOCATE EXISTING THERMOSTAT FROM DEMOLISHED WALL TO COLUMN. EXTEND WIRING AS NEEDED. COORDINATE WITH ELECTRICAL CONTRACTOR.
- COLUMN TO BE FURRED OUT. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL TO REINSTALL THERMOSTAT ON NEW WALL SURFACE.
- VERIFY TOTAL MAX AIRFLOW IN 12"ø DUCT (ESTIMATED AIRFLOW = 1200 CFM). BALANCE AIRFLOW TO EACH DIFFUSER (TYP OF 6) TO EQUAL 1/6 OF TOTAL AIRFLOW.

## LEGEND:

	SUPPLY DIFFUSER		DUCT
	RETURN GRILLE		DUCT (E)
	SLOT DIFFUSER		FLEX DUCT
	BALANCE DAMPER		MECHANICAL EQUIPMENT (E)
	HOT WATER (E)		THERMOSTAT
	HOT WATER RETURN (E)		EQUIPMENT CALLOUT (STANDARD)



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PROJECT	DATE
15209	12-23-2015
DRAWN	CHECKED
SLS	SCH

REVISED

SHEET TITLE

**HVAC PLAN**

SHEET

**M2.1**

ORIGINAL SHEET SIZE  
24" x 36"



ELECTRICAL SPECIFICATIONS

1.

THE DRAWINGS ARE INTENDED TO GRAPHICALLY REPRESENT THE OVERALL SCOPE OF WORK AND NOT TO PROVIDE EVERY DETAIL NECESSARY FOR FINAL PROJECT COMPLETION. ALL LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED, OR NOTED OTHERWISE. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER LOCATIONS WITH ALL CONTRACT DOCUMENTS AND WITH OTHER TRADES.
2.

ALL CONTRACT DRAWINGS AND DOCUMENTS SHALL BE CONSIDERED AS PART OF THE ELECTRICAL WORK EVEN WHEN NOT SPECIFICALLY CALLED OUT OR REFERENCED.
3.

MAINTAIN UP-TO-DATE "AS-BUILT" SET OF CONTRACT DRAWINGS. THEY SHALL BE KEPT ON SITE AND AVAILABLE FOR EXAMINATION BY THE OWNER, OWNERS REPRESENTATIVE, OR AUTHORITY HAVING JURISDICTION.
4.

THE SCOPE OF WORK INCLUDES, BUT SHALL NOT BE LIMITED TO; ALL LABOR, EQUIPMENT, MATERIALS, TRANSPORTATION, INSPECTIONS, AND START-UP TO FURNISH AND INSTALL A COMPLETE AND OPERATING ELECTRICAL SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
5.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND BE RESPONSIBLE FOR ANY FEES ASSOCIATED WITH THE PERMIT PROCESS.
6.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), STATE, AND LOCAL CODES. OTHER APPLICABLE CODES SHALL INCLUDE BUT NOT BE LIMITED TO:

A.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

B.

AMERICAN WITH DISABILITIES ACT (ADA)

C.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

D.

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

E.

NATIONAL ELECTRICAL SAFETY CODE (NESC)

F.

INTERNATIONAL BUILDING CODE (IBC)

G.

INTERNATIONAL FIRE CODE (IFC)
7.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY ANY SITE CONDITIONS THAT MAY IMPACT THE PROJECT WORK PRIOR TO BID. EXISTING CONDITIONS WILL NOT BE AN ACCEPTABLE MEANS FOR OBTAINING CHANGE ORDERS.
8.

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE PROJECT SCHEDULE AS WELL AS OTHER TRADES. THE CONTRACTOR SHALL REPLACE WORK REMOVED OR DAMAGED DUE TO INTERFERENCE WITH OTHER TRADES, NOT COORDINATED, AT THEIR EXPENSE. REPLACEMENT SHALL NOT IMPACT THE ORIGINAL PROJECT SCHEDULE.
9.

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER SERVICES FOR THE DURATION OF THE PROJECT WHERE THE SITE DOES NOT HAVE A USABLE EXISTING SERVICE. ALL TEMPORARY SERVICES SHALL BE INSTALLED IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURY AND TO PROJECT SITE PERSONNEL.
10.

INSTANCES WHERE ALL OR A PORTION OF THE PROJECT SITE WILL REMAIN OCCUPIED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE USE OF THE PREMISES FOR VEHICLE USE, EQUIPMENT STORAGE, AND ACCEPTABLE HOURS OF WORK WITH THE PROJECT MANAGER. THE OCCUPIED SPACES SHALL REMAIN FULLY FUNCTIONAL WITH POWER, LIGHTING, FIRE SAFETY, AND OTHER ANCILLARY SYSTEMS. ANY TYPE OF OUTAGE SHALL BE SCHEDULED IN ADVANCE WITH THE PROJECT MANAGER. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR LOSSES ATTRIBUTED TO UNSCHEDULED OUTAGES.
11.

ON JOB SITES REQUIRING DEMOLITION, ALL ELECTRICAL EQUIPMENT REMOVED SHALL BE DISCARDED AND HAULED AWAY FROM THE PREMISES. CONDUIT, WIRE, AND BOXES SHALL BE REMOVED BACK TO THE PANEL, OR THE LAST JUNCTION BOX, WHICHEVER CAUSES THE LEAST AMOUNT OF DESTRUCTION TO THE EXISTING STRUCTURE, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL TEST ALL REMAINING CONDUCTORS THAT WILL BE REUSED FOR ELECTRICAL INTEGRITY. CONCEALED CONDUITS SHALL BE ABANDONED IN PLACE, CUT OFF FLUSH WITH THE EXISTING SURFACE, AND FILLED WITH A PERMANENT MATERIAL.
12.

WHERE CUTTING, DRILLING, TRENCHING, OR CHANNELING IS NECESSARY FOR PROPER INSTALLATION OF EQUIPMENT, THE WORK SHALL BE PERFORMED IN A SAFE, WORKMANLIKE MANNER BY COMPETENT, SKILLED CRAFTSMEN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OCCURRING BY HIMSELF OR OTHER SUB-TRADES FOR WORK PERFORMED. MODIFICATIONS TO THE STRUCTURE SHALL BE APPROVED BY A STRUCTURAL ENGINEER.
13.

PENETRATIONS THROUGH FIRE RESISTIVE STRUCTURES SHALL BE DONE SUCH THAT THE RATED INTEGRITY OF THE STRUCTURE IS NOT COMPROMISED. THIS INCLUDES COMPLIANCE WITH ALL CODES AND INSPECTION AGENCIES. DISCREPANCIES BETWEEN THE DESIGN AND CODE REQUIREMENTS SHALL BE ADDRESSED PRIOR TO THE COMMENCEMENT OF WORK. CHANGE ORDERS WILL NOT BE GRANTED FOR WORK ALREADY IN PROGRESS.
14.

ALL EQUIPMENT AND MATERIAL FURNISHED SHALL BE NEW AND FREE OF DEFECTS AND SHALL BE LISTED AND LABELED AS DESCRIBED IN NEC-100. ALL EQUIPMENT AND MATERIAL INSTALLED AS AN ASSEMBLY SHALL BE TESTED AND CERTIFIED AS AN ASSEMBLY.
15.

EQUIPMENT AND MATERIAL FURNISHED SHALL BE THE MANUFACTURERS STANDARD CATALOG EQUIPMENT. FIRST OF A KIND EQUIPMENT IS NOT ACCEPTABLE. INSTALLATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.
16.

EQUIPMENT AND MATERIAL SHALL HAVE MINIMUM (1) YEAR WARRANTY FROM THE DATE OF SUBMITTAL COMPLETION. ANY FAILURE OF EQUIPMENT OR MATERIALS DURING THE WARRANTY PERIOD SHALL BE REPAIRED OR REPLACED TO LIKE NEW CONDITIONS WITHOUT CHARGE. LAMPS SHALL CARRY THE STANDARD FACTORY WARRANTY. FLUORESCENT LUMINAIRE BALLASTS SHALL HAVE MINIMUM (2) YEAR WARRANTY.
17.

SPECIFIC EQUIPMENT AND MATERIAL HAS BEEN CALLED OUT BY MANUFACTURER AND MODEL NUMBER TO SET A STANDARD OF QUALITY AND TYPE. ACCEPTABLE EQUALS SHALL BE CAPABLE OF FITTING IN THE DESIGNATED SPACE, BE OF THE SAME COLOR, HAVE THE SAME PERFORMANCE CHARACTERISTICS, CARRY THE SAME WARRANTY, AND MEET THE PROJECT SCHEDULE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE DOCUMENTATION THAT CLEARLY INDICATES THE ITEMS TO BE FURNISHED ARE ACCEPTABLE EQUALS. THE ENGINEER RESERVES THE RIGHT TO REJECT QUESTIONABLE SUBMITTAL INFORMATION.
18.

EQUIPMENT AND MATERIAL SHALL BE STORED IN A CLEAN AND SAFE MANNER. IT SHALL BE STORED IN AN ENVIRONMENT WHERE IT IS PROTECTED FROM DIRT, MOISTURE, AND PHYSICAL DAMAGE.
19.

ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN A NEAT, WORKMANLIKE, SAFE, AND COMPLETE MANNER. THE OWNER, OWNERS REPRESENTATIVE, OR INSPECTOR HAS THE AUTHORITY TO CONDEMN WORK NOT MEETING THESE STANDARDS. THE WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER, WHILE MAINTAINING THE PROJECT SCHEDULE.
20.

FURNISH AND INSTALL ALL SUPPORTS TO THE BUILDING OR STRUCTURAL MEMBERS REQUIRED FOR INSTALLATION OF EQUIPMENT IN CEILINGS, WALLS, VOID SPACES, AND ABOVE SUSPENDED OR FURRED CEILINGS. SUPPORTS SHALL BE CAPABLE OF SUSTAINING A MINIMUM OF FOUR TIMES THE FINISHED WEIGHT OF THE OBJECT.
21.

THE CONTRACTOR SHALL CLEAN ALL EQUIPMENT INTERIORS AND EXTERIORS PRIOR TO OPERATION. THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE OWNER, OR OWNERS REPRESENTATIVE BEFORE IT SHALL BE ACCEPTED FOR SERVICE.
22.

ALL CONDUIT, WIRE, FITTINGS, SUPPORTS AND HANGERS SHALL BE FURNISHED AND INSTALLED AS NECESSARY TO FURNISH A COMPLETE WORKING ELECTRICAL SYSTEM.
23.

ACCEPTABLE CONDUIT SYSTEMS ARE FLEXIBLE METAL, EMT, GALVANIZED RIGID STEEL, AND PVC. CONDUIT SYSTEMS SHALL BE INTERPRETED AS ALL CONDUIT, FITTINGS, SUPPORTS BOXES AND OTHER EQUIPMENT TO FURNISH AND INSTALL A COMPLETE WORKING SYSTEM. ALL CONDUIT RUNS SHALL CONTAIN AN EQUIPMENT GROUND THROUGHOUT THE ENTIRE LENGTH, SIZED PER NEC. METAL CLAD CABLE IS ALLOWED FOR 6'-0" WHIPS TO LIGHT FIXTURES AND BRANCH CIRCUITING. ALL HOMERUNS TO PANELBOARDS SHALL BE IN CONDUIT.
24.

CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL CONDUIT ONLY SYSTEMS, AND CONDUIT AND WIRE SYSTEMS INSTALLED IN FINISHED WALLS, CEILINGS, AND FLOORS SHALL BE COMPLETELY CONCEALED. IN AREAS WHERE SURFACE MOUNTING OF CONDUIT IS ACCEPTABLE THE CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES WITH STRUCTURAL MEMBERS. MULTIPLE RUNS OF CONDUIT IN THE SAME DIRECTION SHALL MAINTAIN SYMMETRICAL SPACING BETWEEN CONDUITS. SURFACE MOUNTED CONDUIT IS NOT ALLOWED IN FOOD PREPARATION AREAS.
25.

PVC COATED FLEXIBLE METAL CONDUIT SHALL BE FURNISHED AND INSTALLED FOR ALL OUTDOOR LOCATIONS, CONNECTIONS TO TRANSFORMERS, AND CONNECTIONS TO MOTORS. FURNISH AND INSTALL THE APPROPRIATELY RATED FITTINGS AS NECESSARY TO COMPLETE THE INSTALLATION. FLEXIBLE METAL CONDUIT SHALL CONTAIN A SEPARATE GROUND WIRE THROUGHOUT THE ENTIRE LENGTH.
26.

JUNCTION BOXES, HANDHOLES, AND CONDUIT SEALS SHALL BE PROVIDED AS NECESSARY TO FURNISH A COMPLETE WORKING ELECTRICAL SYSTEM. THE CONTRACTOR SHALL FOLLOW THE NEC FOR MINIMUM SIZING AND PERMISSIBLE LOCATION REQUIREMENTS.
27.

DEVICES SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE DRAWINGS.
28.

FURNISH AND INSTALL ALL DEVICES SHOWN ON THE DRAWINGS COMPLETE WITH ACCESSORIES AND OPTIONS LISTED. AFTER INSTALLATION ENSURE THAT THEY ARE CLEAN, AND FREE OF DIRT OR DEBRIS, AND THAT NO MONOGRAMS OR LABELS ARE VISIBLE ON THE FINISHED SURFACES.
29.

DEVICES SHALL BE RECESSED FLUSH IN ALL FINISHED WALLS WITH THE DEVICES MOUNTED VERTICALLY, UNLESS NOTED OTHERWISE. BOXES MOUNTED IN COMMON WALLS SHALL BE OFFSET A MINIMUM OF 12 INCHES. BACK TO BACK BOX MOUNTING SHALL NOT BE ACCEPTED.
30.

LOCATE BOXES, OUTLETS, SWITCHES, FIXTURES, AND OTHER APPARATUS SYMMETRICALLY ON FLOORS, WALLS, AND CEILINGS WHERE NOT SPECIFICALLY DIMENSIONED. SEE MOUNTING HEIGHT DETAIL.

31.

ALL LINE VOLTAGE CONDUCTORS SHALL BE COPPER, COLOR CODED, 600 VOLT RATED, MARKED WITH GAUGE TYPE AND MANUFACTURER ON 24" CENTERS, AND BEAR THE UL LABEL. INSULATION TYPE SHALL BE MULTI-RATED THHN/THWN, 75°C. CONDUCTOR COLOR CODE SHALL BE AS FOLLOWS:

208Y/120 VOLT SYSTEM

480Y/277 VOLT SYSTEM

BLACK

PHASE A

BROWN

PHASE A

RED

PHASE B

ORANGE

PHASE B

BLUE

PHASE C

YELLOW

PHASE C

WHITE

NEUTRAL

GRAY

NEUTRAL

GREEN

GROUND

GREEN

GROUND

GREEN W/ YELLOW STRIPE

ISOLATED GROUND

32.

CONDUCTOR INSULATION RATING INSIDE LIGHT FIXTURES AND EQUIPMENT SHALL BE AS REQUIRED BY CODE AND MANUFACTURER'S RECOMMENDATIONS.

33.

ALL LINE VOLTAGE CONDUCTORS SHALL BE STRANDED COPPER; EXCEPTION: LINE VOLTAGE CONDUCTORS SIZE #14, #12, AND #10 AWG MAY BE SOLID CONDUCTOR AT THE CONTRACTOR'S DISCRETION.

34.

PANELBOARD DIRECTORIES SHALL BE UPDATED AS NECESSARY TO REFLECT THE FINISHED WORK. THE CONTRACTOR SHALL FURNISH ACCURATE AND TYPED PANEL SCHEDULES.

35.

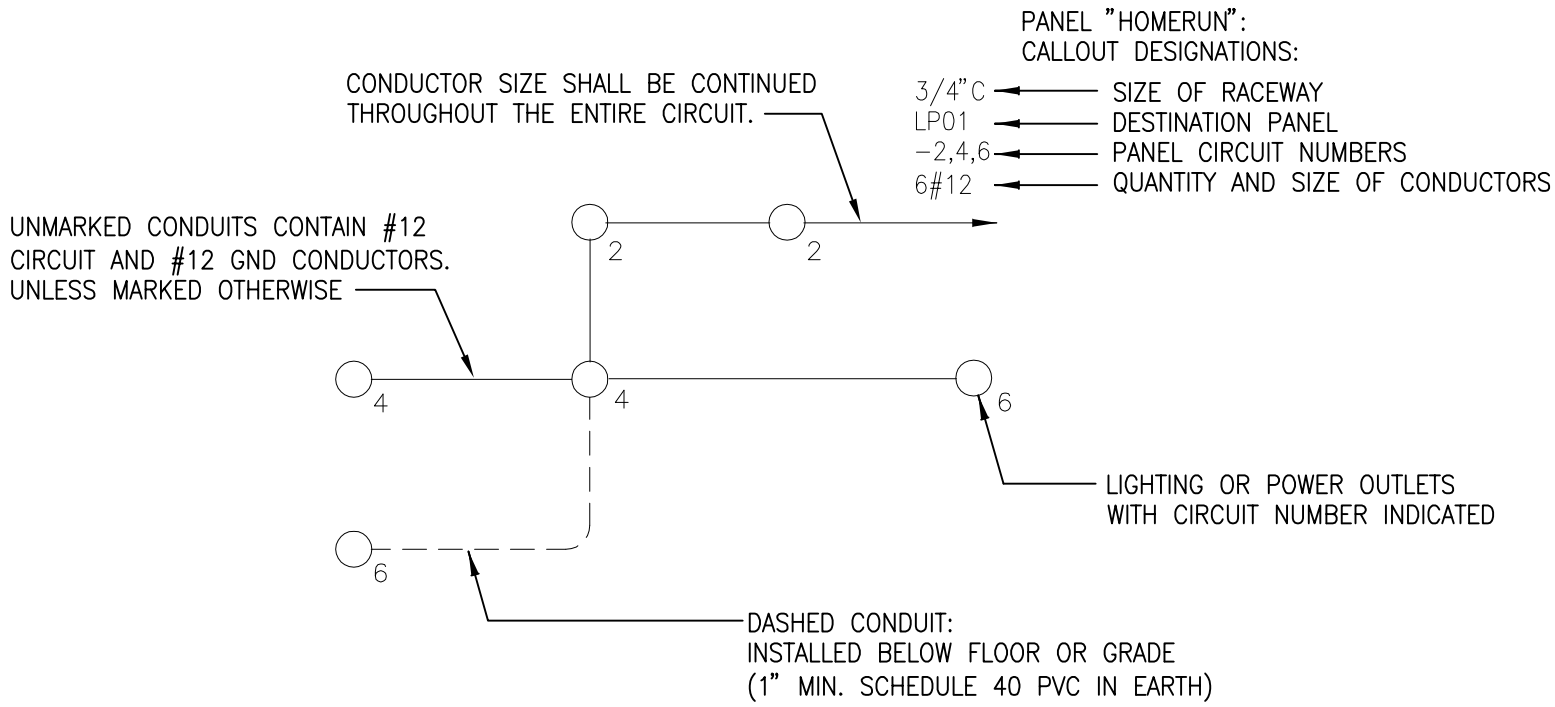
LIGHTING CIRCUITS SHALL BE FED FROM CIRCUIT BREAKERS RATED AND LABELED FOR SWITCH DUTY (SWD).

36.

MOTOR CIRCUITS SHALL BE FED FROM CIRCUIT BREAKERS RATED AND LABELED FOR HEATING, AIR CONDITIONING, AND REFRIGERATION (HACR).

37.

CIRCUITS ARE CALLED OUT AT EACH DEVICE OR CONNECTION POINT. MINIMUM CONDUCTOR SIZE SHALL BE RATED AT 75°C FOR THE BREAKER AMP RATING FEEDING THE CIRCUIT. THE CONTRACTOR MAY COMBINE CONDUCTORS INTO COMMON HOMERUNS AT HIS DISCRETION, HOWEVER THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR MAINTAINING PROPER DERATION OF CONDUCTORS, VOLTAGE DROP, MOTOR STARTING CAPABILITIES, SHORT CIRCUIT REQUIREMENTS, AND AMPACITIES.



- NOTES:
1.

ALL HOMERUNS ARE TO BE 3/4" CONDUIT MINIMUM.
2.

ALL CONDUCTORS SHALL BE #12 UNLESS OTHERWISE NOTED.
3.

ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC.
4.

EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL CONDUCTOR PER NEC.
5.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL RACEWAYS WITH FEEDERS AND BRANCH CIRCUITS.
6.

USE COPPER CONDUCTORS ONLY.
7.

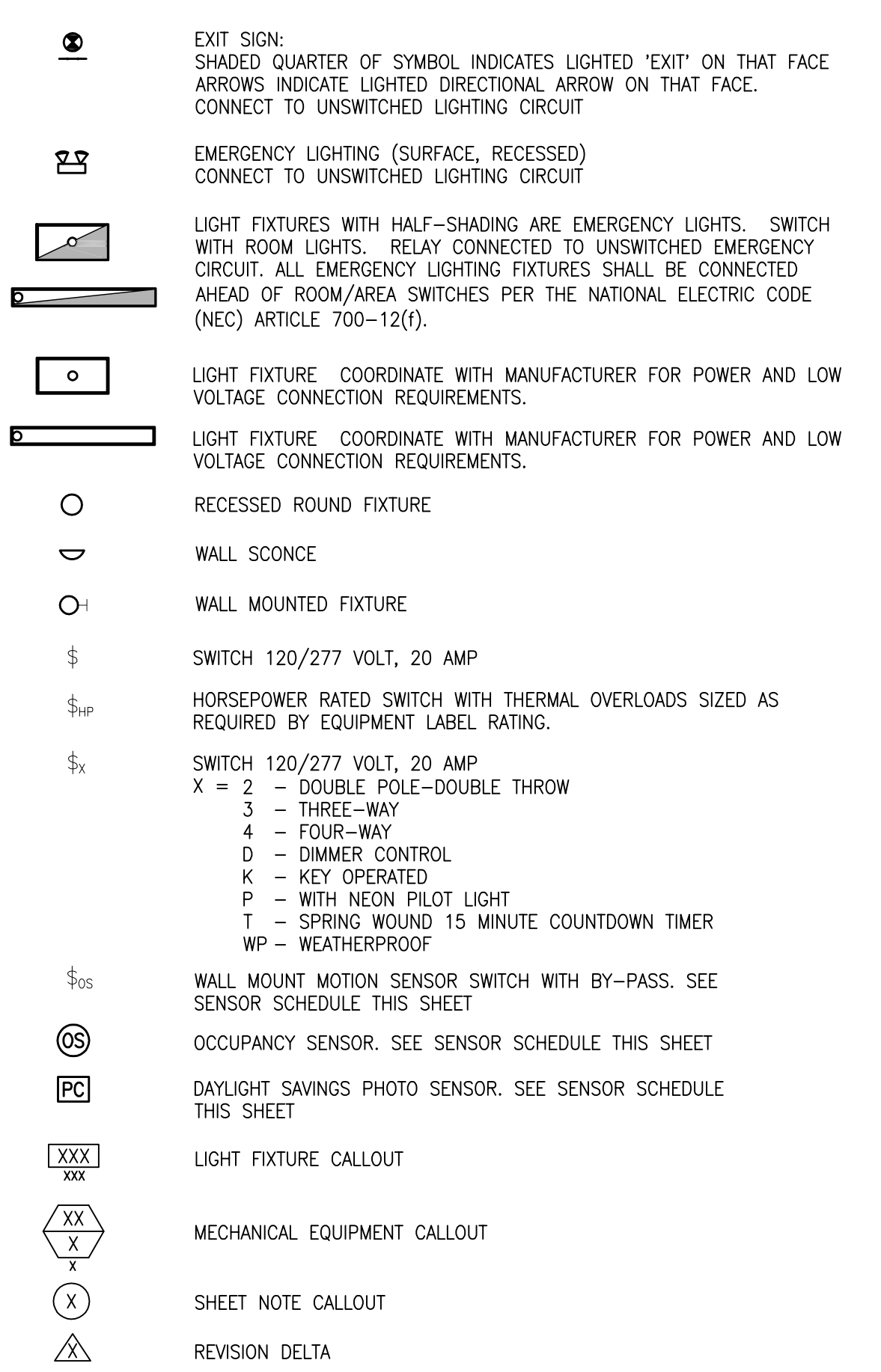
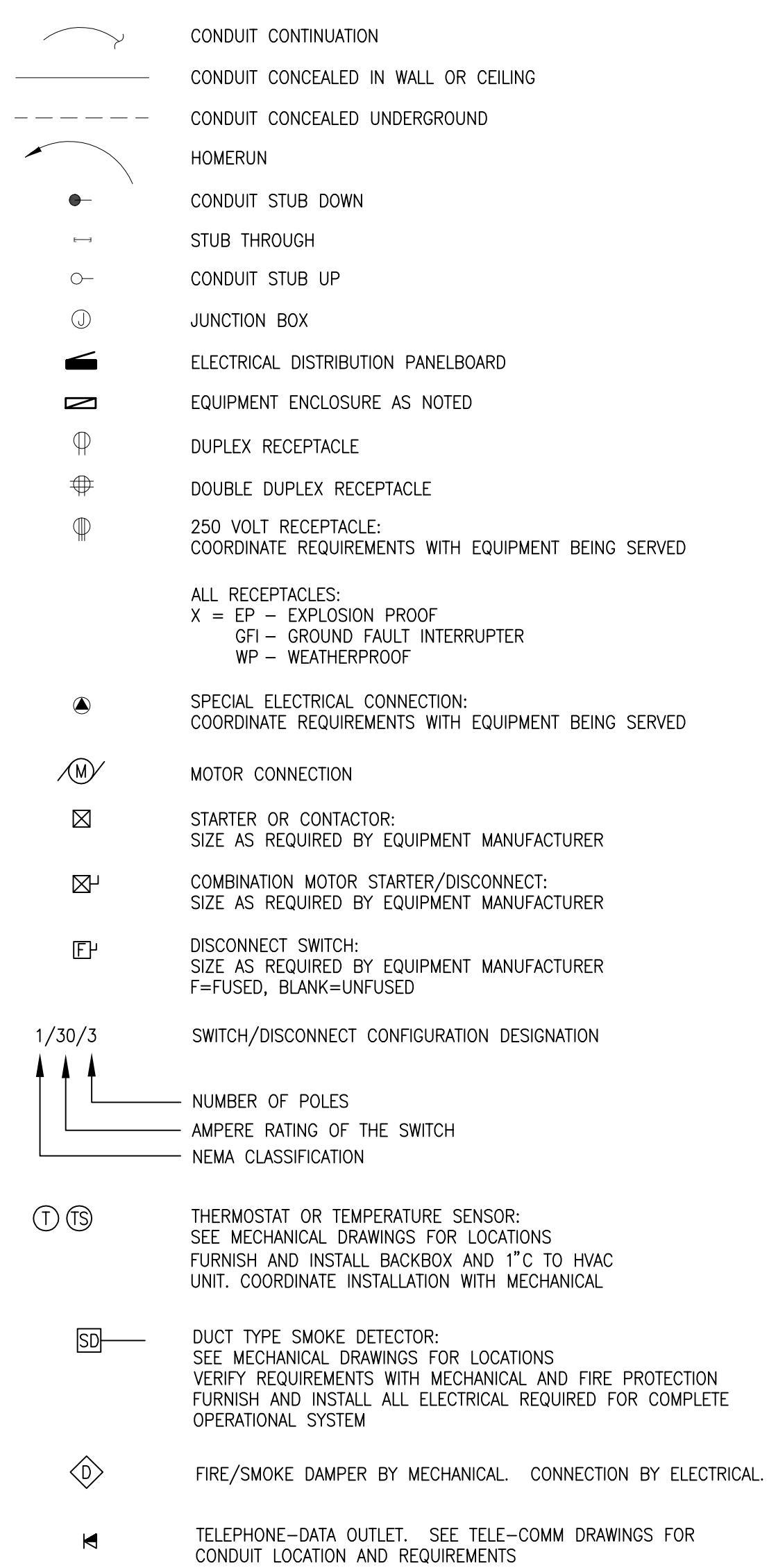
THE CONDUIT SYSTEM MAY NOT BE USED FOR EQUIPMENT GROUNDING.

1 CIRCUITING DETAIL  
SCALE NONE

ABBREVIATIONS

#C	SIZE OF TRADE SIZE CONDUIT. # WILL BE REPLACED BY A NUMBER; I.E. 1/2"C, 2"C.
#P	NUMBER OF POLES. # IS REPLACED BY NUMBER, I.E. 1P, 2P, ETC.
#W	NUMBER OF WIRES, # IS REPLACED WITH A NUMBER, I.E. 3W, 4W, ETC.
A	AMPERE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
CB	CIRCUIT BREAKER
CG	CEILING
CD	CONDUIT
C	CANDELLA
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
E	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
EW	ELECTRIC WATER HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
I/O	INPUT / OUTPUT
IG	ISOLATED GROUND
INC	INCANDESCENT
J-BOX	JUNCTION BOX
KMIL	THOUSAND CIRCULAR MIL
KO	KNOCK OUT
KV	KILOVOLT

SYMBOLS



GENERAL NOTES:

- A.

ALL DEMOLITION OF ELECTRICAL SYSTEMS SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. VERIFY DEMOLITION OF ELECTRICAL WITH ALL TRADES PRIOR TO START OF DEMOLITION.
- B.

ALL CIRCUITS AND RELATED DEVICES THAT ARE TO REMAIN ARE TO STAY "ENERGIZED" IN THE DEMOLITION AND NEW CONSTRUCTION PHASES UNTIL THE COMPLETION OF THE WORK INDICATED ON THESE PLANS.
- C.

WHERE DEMOLITION OF EXISTING DEVICES OCCURS, THE CONTRACTOR SHALL REMOVE CONDUIT AND WIRE BACK TO NEAREST UPSTREAM DEVICE OR JUNCTION BOX. INTERCEPT AND EXTEND EXISTING CIRCUITS TO DOWNSTREAM DEVICES SO THEY REMAIN OPERATIONAL. PROVIDE ALL MATERIALS REQUIRED TO PRESERVE THE EXISTING CIRCUIT.
- D.

CONTRACTOR SHALL DISPOSE OF THE REMOVED DEVICES. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUITS AND JUNCTION BOXES AS IS PRACTICAL.
- E.

PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
- F.

THE CONTRACTOR SHALL REPAIR EXISTING WALLS/SURFACES THAT REMAIN, WHERE DEVICES ARE BEING REMOVED OR RELOCATED. ABANDON CONDUIT AND REMOVE DEVICES, JUNCTION BOXES AND CONDUCTORS BACK TO NEAREST POWER SOURCE TO REMAIN. MAKE CIRCUIT SPARE OR RE-USE AS SHOWN ON PLANS. COORDINATE REPAIR (PATCH AND PAINT) WITH ARCHITECTURAL CONTRACTOR.
- G.

ROUTE ALL CONDUIT HOME RUNS TO PANELS CONCEALED OVERHEAD ABOVE ACCESSIBLE CEILINGS OR IN WALLS WHERE AVAILABLE.
- H.

THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.
- I.

THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
- J.

A SITE VISIT PRIOR TO BID IS BENEFICIAL TO OBSERVE EXISTING CONDITIONS. THE CONTRACTOR MAY REUSE EXISTING CONDUCTORS AND RACEWAY PROVIDED THEY MEET THE FOLLOWING REQUIREMENTS:

1.

ALL ITEMS BEING REUSED ARE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.

2.

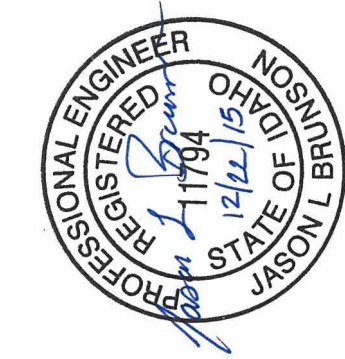
ALL CONDUIT, BOXES, ETC. ARE PROPERLY SUPPORTED AND IN GOOD CONDITION.

3.

THE EXISTING ITEMS ARE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE.
- K.

EQUIPMENT BEING REUSED OR RELOCATED SHALL BE CLEANED AND INSPECTED FOR PROPER OPERATION PRIOR TO REINSTALLATION. SHOULD AN ITEM NOT BE REUSABLE, NOTIFY THE OWNER'S REPRESENTITIVE AND ENGINEER IMMEDIATELY.
- L.

COORDINATE WITH THE OWNER'S REPRESENTATIVE AND BUILDING OCCUPANTS PRIOR TO DE-ENERGIZING ANY CIRCUITS OR FEEDERS THAT WILL DISRUPT BUILDING OPERATION.



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100% PERMIT  
SET

PROJECT	DATE
15209	12-23-2015
DRAWN	CHECKED
RJL	JLB

REVISED

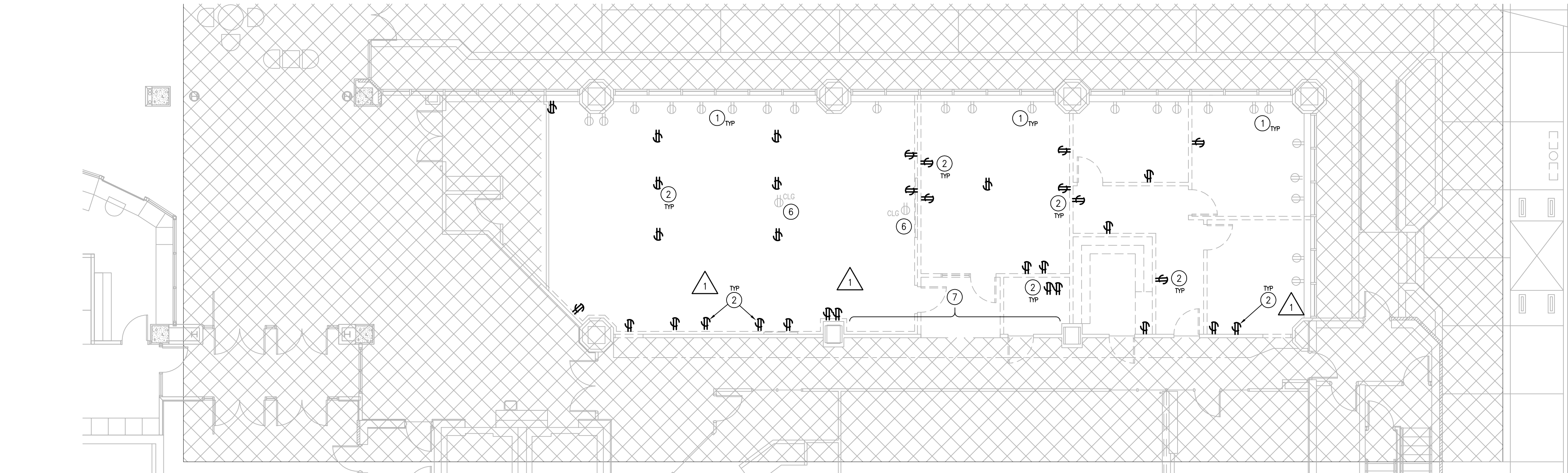
SHEET TITLE  
SYMBOLS  
&  
SPECIFICATIONS

SHEET

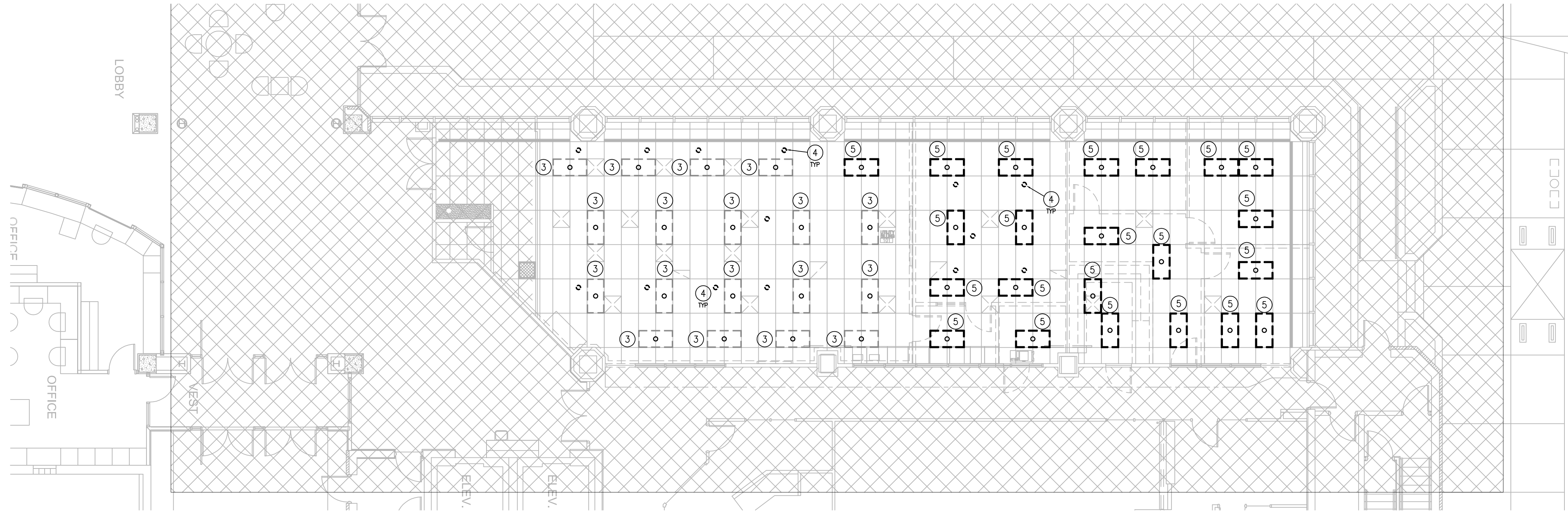
E0.1

ORIGINAL SHEET SIZE  
24" x 36"





**1 DEMOLITION POWER PLAN**  
SCALE 1/8" = 1'-0"



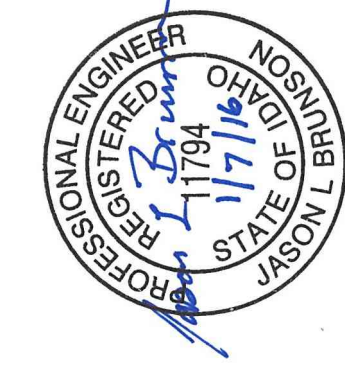
**1 DEMOLITION LIGHTING PLAN**  
SCALE 1/8" = 1'-0"

**GENERAL NOTES:**

- A. ALL DEMOLITION OF ELECTRICAL SYSTEMS SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. VERIFY DEMOLITION OF ELECTRICAL WITH ALL TRADES PRIOR TO START OF DEMOLITION.
- B. ALL EXISTING CONDITIONS ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL CAREFULLY EXAMINE THE EXISTING INSTALLATION AND ALL PROJECT DRAWINGS TO BECOME FAMILIAR WITH THE SCOPE OF WORK.
- C. CONTRACTOR SHALL PATCH AND REPAIR ANY DAMAGE OR PENETRATIONS AT ALL ELEMENTS TO REMAIN (INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, FLOORS, ETC.) CAUSED BY DEMOLITION ACTIVITIES OR REMOVAL OF ELECTRICAL, MECHANICAL, AND ARCHITECTURAL ELEMENTS. REPLACE ITEMS NOT REPAIRABLE TO ORIGINAL STATE. EXISTING FINISH MATERIALS SHALL BE PROTECTED AND RETAINED, UNLESS NOTED OTHERWISE.
- D. COORDINATE ALL DEMOLITION WITH NEW ARCHITECTURAL FLOOR PLAN.
- E. UPON COMPLETION OF DEMOLITION THOROUGHLY CLEAN ALL SURFACES (INDICATED TO REMAIN) OF DUST, DIRT, AND DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
- F. DASHED DEVICES/FIXTURES TO BE REMOVED AND RETURNED TO OWNER IN USABLE CONDITION.
- G. ALL CIRCUITS AND RELATED DEVICES THAT ARE TO REMAIN ARE TO STAY "ENERGIZED" IN THE DEMOLITION AND NEW CONSTRUCTION PHASES UNTIL THE COMPLETION OF THE WORK INDICATED ON THE PLANS.
- H. WHERE DEMOLITION OF EXISTING DEVICES OCCURS, THE CONTRACTOR SHALL REMOVE CONDUIT AND WIRE BACK TO NEAREST UPSTREAM DEVICE OR JUNCTION BOX. INTERCEPT AND EXTEND EXISTING CIRCUITS TO DOWNSTREAM DEVICES SO THEY REMAIN OPERATIONAL. PROVIDE ALL MATERIALS REQUIRED TO PRESERVE THE EXISTING CIRCUIT.
- I. CONTRACTOR SHALL DISPOSE OF THE REMOVED DEVICES THAT ARE NOT TO BE RETURNED TO OWNER. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUIT AND JUNCTION BOXES AS PRACTICAL.
- J. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL ASSOCIATED WITH WALLS BEING REMOVED, AND IN ALL LOCATIONS WHERE JUNCTION BOXES WILL NOT REMAIN ACCESSIBLE AFTER INSTALLATION OF MILLWORK.
- K. EQUIPMENT BEING REUSED OR RELOCATED SHALL BE CLEANED AND INSPECTED FOR PROPER OPERATION PRIOR TO REINSTALLATION. SHOULD AN ITEM NOT BE REUSABLE, NOTIFY THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY.
- L. A SITE VISIT PRIOR TO BID IS BENEFICIAL TO OBSERVE EXISTING CONDITIONS. THE CONTRACTOR MAY REUSE EXISTING CONDUCTORS AND RACEWAY PROVIDED THEY MEET THE FOLLOWING REQUIREMENTS:
  - L.A. ALL ITEMS BEING REUSED ARE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
  - L.B. ALL CONDUIT, BOXES, ETC ARE PROPERLY SUPPORTED AND IN GOOD CONDITION.
  - L.C. THE EXISTING ITEMS ARE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND THE OWNERS REPRESENTATIVE.
- M. EQUIPMENT BEING REUSED OR RELOCATED SHALL BE CLEANED AND INSPECTED FOR PROPER OPERATION PRIOR TO REINSTALLATION. SHOULD AN ITEM NOT BE REUSABLE, NOTIFY THE OWNER REPRESENTATIVE AND ENGINEER IMMEDIATELY.
- N. COORDINATE WITH THE OWNER'S REPRESENTATIVE AND BUILDING OCCUPANTS PRIOR TO DE-ENERGIZING ANY CIRCUITS OR FEEDERS THAT WILL DISRUPT BUILDING OPERATION.
- O. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.

**# SHEET NOTES:**

- 1. EXISTING RECEPTACLES TO REMAIN. PROTECT DURING DEMOLITION.
- 2. EXISTING RECEPTACLES TO BE REMOVED AND RETURNED TO OWNER. ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN MUST BE RE-CONNECTED TO EXISTING BRANCH CIRCUIT.
- 3. EXISTING LIGHT FIXTURES TO BE REMOVED AND RELOCATED. SEE LIGHTING PLAN FOR NEW LOCATIONS PRIOR TO REMOVAL. PROTECT, STORE AND REPAIR ANY DAMAGE TO LIGHT FIXTURES TO BE RE-INSTALLED.
- 4. EXISTING CAN LIGHT TO BE REMOVED AND RETURNED TO OWNER IN USABLE CONDITION.
- 5. EXISTING RECESSED LIGHT FIXTURE TO BE REMOVED AND RETURNED TO OWNER IN USABLE CONDITION.
- 6. EXISTING CEILING MOUNTED RECEPTACLES TO BE REMOVED AND RELOCATED. SEE POWER PLAN FOR NEW LOCATION.
- 7. VERIFY EXISTING BRANCH CIRCUIT ROUTING THROUGH NEW RIBBON WINDOW PRIOR TO BEGINNING WORK. REMOVE EXISTING CONDUIT AND CONDUCTORS AS REQUIRED. REROUTE EXISTING BRANCH CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.



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**100% PERMIT SET**

PROJECT	DATE
15209	12-23-2015
DRAWN	CHECKED
RJL	JLB

REVISED  
1 OWNER REVISIONS  
1-7-2016

SHEET TITLE

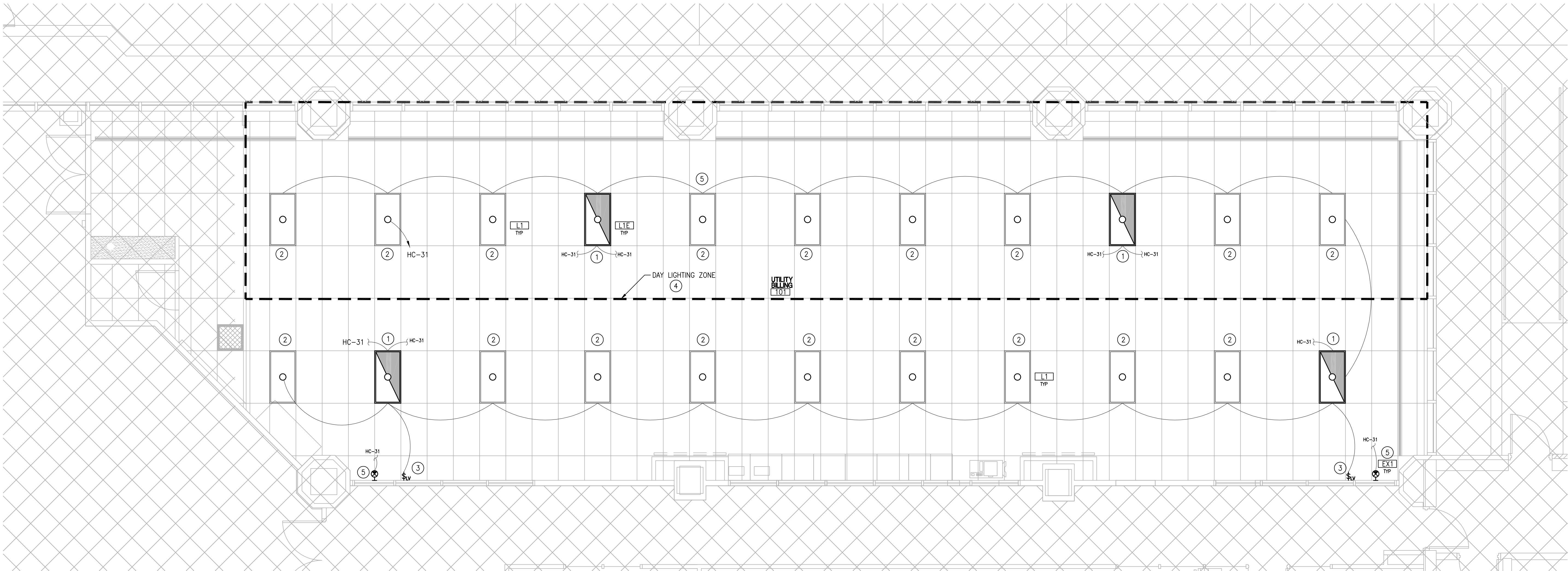
**DEMOLITION PLANS**

SHEET

**E0.2**

ORIGINAL SHEET SIZE  
24" x 36"





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

### LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION/MANUFACTURER NO.	WATTS PER LUMINAIRE	LAMP TYPE	MOUNTING	NOTES
L1	(EXISTING TYPE) LED, 2x4 VOLUMETRIC LIGHT LITHONIA: 2RTL4-48L-EZ1-LP835-N100 GRID MOUNTED	47	LED	GRID	1, 4
L1E	LED, 2x4 VOLUMETRIC LIGHT LITHONIA: 2RTL4-48L-EZ1-LP835-N100 EL14L (EMERGENCY BATTERY) GRID MOUNTED	47	LED	GRID	1, 3
EX1	LED EXIT SIGN, UNIVERSAL MOUNT PROVIDED BY OWNER / INSTALLED BY CONTRACTOR		LED	UNIVERSAL	2, 3

#### NOTES:

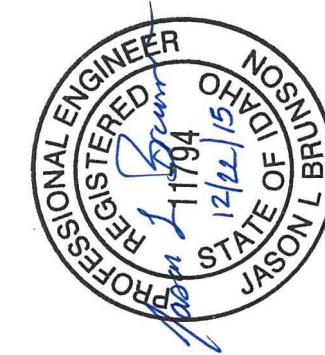
- COORDINATE WITH MANUFACTURER FOR ALL REQUIRED MOUNTING HARDWARE.
- COORDINATE WITH OWNER TO PROVIDE ALL REQUIRED MOUNTING HARDWARE.
- PROVIDE EMERGENCY BATTERY BACK UP FOR FIXTURES INDICATED. COORDINATE WITH MANUFACTURER.
- FIXTURE SPECIFICATION IS TO INDICATE EXISTING TO BE RELOCATED LIGHT FIXTURE. COORDINATE WITH EXISTING LIGHT FIXTURES AND REPLACE ANY DAMAGED OR NON FUNCTIONAL COMPONENTS AS REQUIRED.

### GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES.
- MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- ALL EMERGENCY FIXTURE SHALL BE CONNECTED TO AN UNSWITCHED LEG OF CIRCUIT AND WIRED FOR CONTINUOUS OPERATION, UNLESS NOTED OTHERWISE.
- ALL CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.
- ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILING WHERE AVAILABLE.
- PROVIDE LABEL ON COVERPLATES FOR ALL RECEPTACLES, JUNCTION BOXES AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER
- FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURER'S RECOMMENDATIONS.

### # SHEET NOTES:

- NEW LIGHT FIXTURE. EXTEND EXISTING SWITCHED BRANCH CIRCUIT TO NORMAL OPERATION BALLAST FOR ON OFF CONTROL. EXTEND UN-SWITCHED LEG OF BRANCH CIRCUIT TO CONNECT TO EMERGENCY BATTERY FOR CHARGING AND CONTROLS. COORDINATE WITH MANUFACTURER FOR INSTALLATION REQUIREMENTS.
- RELOCATED EXISTING FIXTURE. INTERCEPT AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW LOCATION. CONNECT FIXTURE PER MANUFACTURERS INSTRUCTIONS.
- NEW LIGHTING CONTROL WALL POD. COORDINATE EXACT LOCATION OF LOW VOLTAGE SWITCHING WITH OWNER PRIOR TO INSTALLATION. NEW SWITCHES MUST MATCH EXISTING STYLE, COLOR AND BE COMPATIBLE WITH EXISTING INSTALLATION.
- DAY LIGHT ZONE TO BE CONTROLLED SEPARATELY FROM THE REST OF THE SPACE. FURNISH AND INSTALL SEPARATE SWITCHING.
- CONNECT EXIT SIGNAGE TO UN-SWITCHED BRANCH CIRCUIT FOR CONTINUAL OPERATION AND BATTERY CHARGING.



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**100% PERMIT SET**

PROJECT 15209	DATE 12-23-2015
DRAWN RJB	CHECKED JLB

REVISED

SHEET TITLE

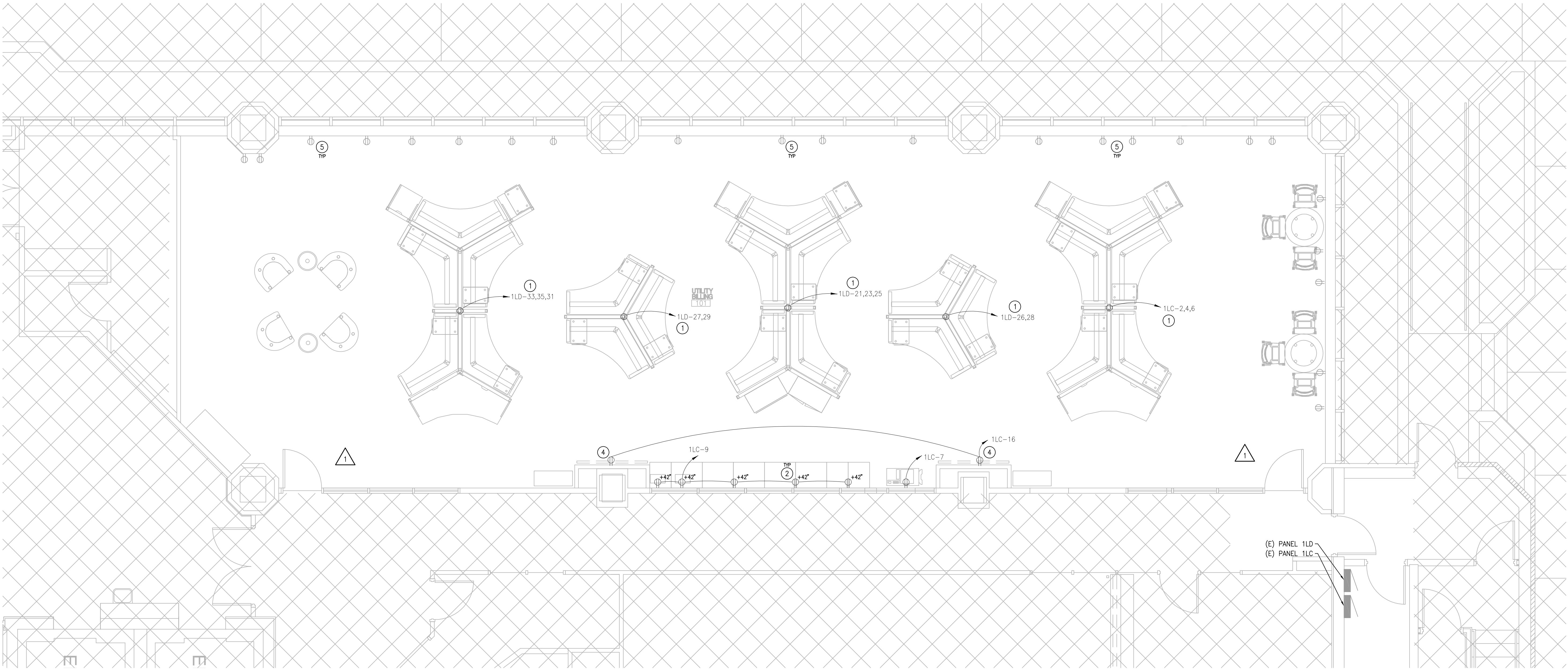
**LIGHTING PLAN**

SHEET

**E1.0**

ORIGINAL SHEET SIZE  
24" x 36"





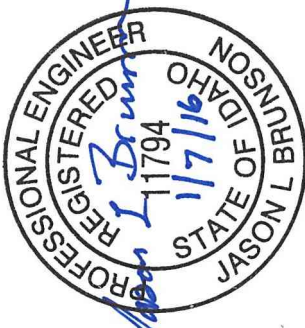
**1 POWER PLAN**  
SCALE 1/4" = 1'-0"

**GENERAL NOTES:**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES.
- MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- ALL EMERGENCY FIXTURE SHALL BE CONNECTED TO AN UNSWITCHED LEG OF CIRCUIT AND WIRED FOR CONTINUOUS OPERATION, UNLESS NOTED OTHERWISE.
- ALL CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.
- ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILING WHERE AVAILABLE.
- PROVIDE LABEL ON COVERPLATES FOR ALL RECEPTACLES, JUNCTION BOXES AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER
- FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURER'S RECOMMENDATIONS.
- STANDARD OUTLET IS A DUPLEX RECEPTACLE & ADJACENT PLATE WITH 3 DATA PORTS.

**# SHEET NOTES:**

- COORDINATE POWER AND CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER. PROVIDE POWER IN CEILING FOR CONNECTION. POWER POLE PROVIDED BY FURNITURE MANUFACTURER.
- MOUNTING HEIGHT TO BE ABOVE BACKSPLASH OF COUNTER. COORDINATE FINAL MILLWORK COUNTER AND BACK SPLASH HEIGHT PRIOR TO ROUGH-IN TO AVOID CONFLICT.
- NOT USED
- COORDINATE MOUNTING HEIGHT OF RECEPTACLE FOR MEDIA WALL MONITOR. RECEPTACLE TO BE CONCEALED BEHIND MONITOR. COORDINATE WITH MONITOR MOUNTING BRACKET PRIOR TO ROUGH-IN TO AVOID CONFLICT.
- EXISTING RECEPTACLES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.



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(208) 343-4635 • FAX (208) 343-1838  
www.cshqa.com



**100% PERMIT SET**

PROJECT 15209	DATE 12-23-2015
DRAWN RJL	CHECKED JLB

REVISED  
1 OWNER REVISIONS  
1-7-2016

SHEET TITLE

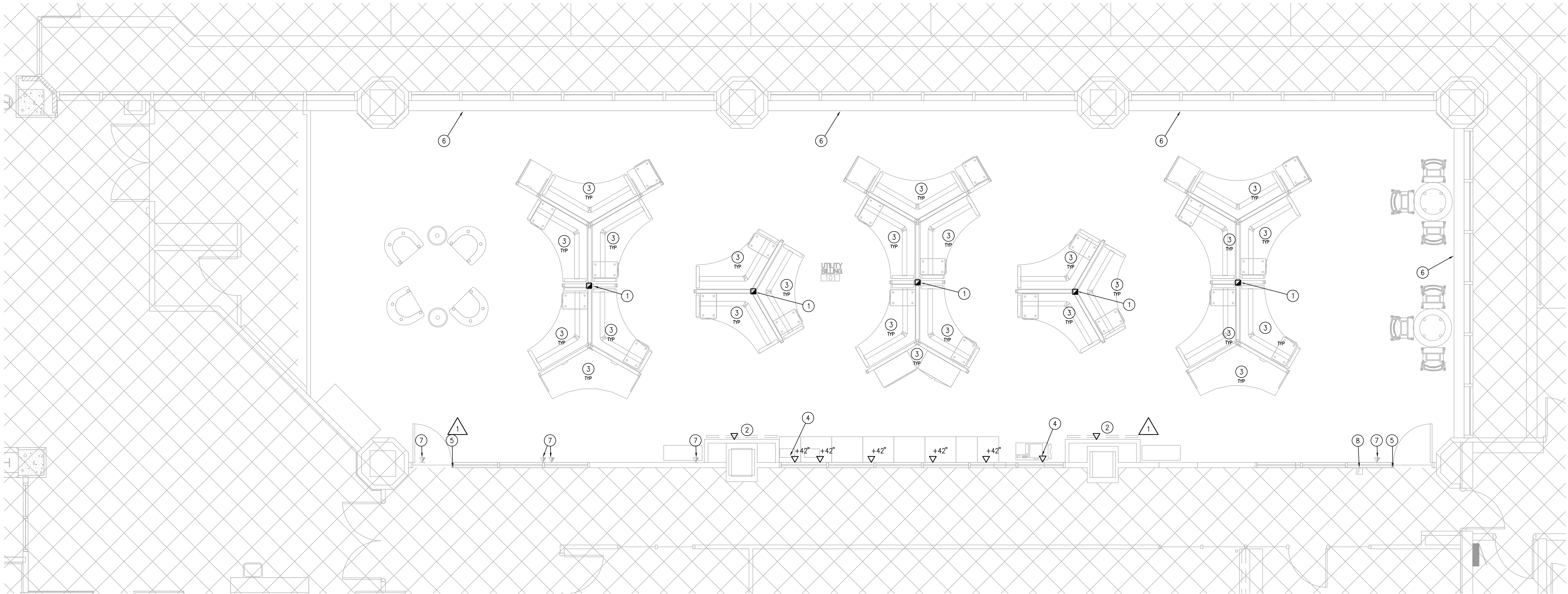
**POWER PLAN**

SHEET

**E2.0**

ORIGINAL SHEET SIZE  
24" x 36"





# SPECIAL SYSTEMS PLAN

SCALE 1/4" = 1'-0"

## GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- COORDINATE SPECIAL SYSTEMS WORK WITH ALL OTHER TRADES.
- MAKE CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- ROUTE CONDUIT STUBS UP TO ABOVE ACCESSIBLE CEILING WHERE AVAILABLE.
- PROVIDE 1" CONDUIT STUBS AND DOUBLE GANG OUTLET BOXES WITH MOUNTING PLATES FOR SINGLE GANG FACEPLATES FOR TELECOM CABLES UNLESS OTHERWISE NOTED. CABLES, TERMINATION HARDWARE, FACEPLATES, LABELING, TESTING AND SUPPORTS FOR CABLES ABOVE SUSPENDED CEILING TO BE PROVIDE BY OTHERS.

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## # SHEET NOTES:

- NEW TOP FEED MODULE FOR POWER AND DATA CABLING PROVIDED BY FURNITURE MANUFACTURER. COORDINATE WITH FURNITURE MANUFACTURER FOR LOCATION AND CONNECTION REQUIREMENTS.
- COORDINATE MOUNTING HEIGHT OF RECEPTACLE FOR WALL MOUNTED TELEVISION MONITOR. POWER RECEPTACLE AND TELECOM OUTLET LOCATION TO BE CONCEALED BEHIND MONITOR. COORDINATE WITH WALL BACKING AND MONITOR MOUNTING BRACKETS PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
- COORDINATE WITH FURNITURE MANUFACTURER AND PROVIDE FACEPLATE AT DESIRED LOCATION AT EACH WORK STATION TO SUPPORT QUANTITY AND TYPE OF TELECOM CABLES BEING PROVIDED BY OTHERS. TYPICAL FOR MODULAR FURNITURE OUTLET LOCATIONS.
- PROVIDE DOUBLE GANG BOX WITH SINGLE GANG MOUNTING PLATE FOR OUTLET LOCATION SERVING PRINTER. COORDINATE LOCATION IN FIELD WITH NEW ELECTRICAL POWER TO SAME DEVICE. EXTEND 1" CONDUIT STUB UP 6 INCHES ABOVE ACCESSIBLE CEILING AND PROVIDE BUSHING ON END.
- PROVIDE SINGLE GANG OUTLET BOX AT 48" A.F.F. OR MATCH EXISTING MOUNTING HEIGHT INSTALLATION FOR ACCESS CONTROL CARD READER. PROVIDE 3/4" CONDUIT UP 6" ABOVE ACCESSIBLE CEILING AND PROVIDE BUSHING ON END. COORDINATE INSTALLATION OF ELECTRIFIED DOOR HARDWARE AND SENSORS IN ALUMINUM STORE FRONT DOOR JAMB.
- PROTECT EXISTING DATA PORTS IN WALL/SURFACE RACEWAY.
- EXISTING DATA/AV PORTS IN WALL/SURFACE TO BE REMOVED. COORDINATE WITH FIELD CONDITIONS AND REMOVE BACK TO SOURCE. FIELD VERIFY QUANTITY.

- EXISTING FIRE ALARM PULL STATION. PROTECT DURING DEMOLITION. FIRE ALARM CONTRACTOR TO VERIFY IF RELOCATION IS REQUIRED.

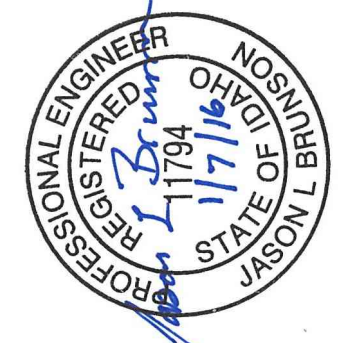
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## FIRE ALARM NOTES

FIRE ALARM DRAWINGS AND DOCUMENTS ARE DESIGN/BUILD WITH A DEFERRED SUBMITTAL. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SHOP DRAWINGS TO THE AUTHORITY HAVING JURISDICTION. DOCUMENTS REQUIRED FOR THE FIRE ALARM SYSTEM MODIFICATION INCLUDE BUT NOT LIMITED TO:

- APPLIANCE/DEVICE LAYOUT
- WIRING, EQUIPMENT ADDRESSES
- WIRING DIAGRAMS
- BATTERY CALCULATIONS
- I/O MATRIX
- ONE LINE DIAGRAM
- SUBMITTALS
- EXISTING SYSTEM TIE IN DIAGRAM
- NEW EQUIPMENT COMPATIBILITY DOCUMENTATION TO EXISTING EQUIPMENT/SYSTEMS.

CONTRACTOR SHALL SUBMIT INFORMATION AND WORKING PLANS TO APPROPRIATE JURISDICTIONAL AUTHORITIES AND INTERESTED PARTIES FOR APPROVAL AND SHALL OBTAIN REQUIRED PERMITS.



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**BOISE, ID**

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REVISED OWNER REVISIONS 1-7-2016
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SHEET TITLE  
**SPECIAL SYSTEMS PLAN**

SHEET  
**E3.0**  
ORIGINAL SHEET SIZE  
24" x 36"





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# ASHA

**ORIGINAL SHEET SIZE**  
**24" x 36"**

PANEL "11C" 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN CIRCUIT BREAKER				MOUNTING: FLUSH		NOTES: EXISTING COMMERCIAL BOLT-ON CIRCUIT BREAKER PANELBOARD.														
CKT NO	LOAD DESCRIPTION	REF NO	BKRK TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER AMP	LOAD AMPS	BKRK TYPE	REF NO	LOAD DESCRIPTION	CKT NO						
						A	B	C	P											
1	REC - ROOM 127, 126			1	20	4.5			20	1	4.5		REC - ROOM 101 DESK UNIT	2						
3	REC - ROOM 128			1	20		4.5		20	1	4.5		REC - ROOM 101 DESK UNIT	4						
5	REC - ROOM 128			1	20			4.5	20	1	4.5		REC - ROOM 101 DESK UNIT	6						
7	REC - UTILITY BILLING 101 COPIER			1.5	20	1.5			20	1			REC - ROOM 123, 134	8						
9	REC - ROOM 101 COUNTER			7.5	20		7.5		20	1			REC - ROOM 123, 133, 135	10						
11	SPARE			1	20			0.0	20	1			REC - ROOM 133, 137	12						
13	REC - SOUTH WEST COLUMN			1	20	0.0			20	1			REC - ROOM 127	14						
15	REC - WEST CENTER COLUMN			1	20		3.0		20	1	3.0		REC - COLUMN ROOM 101	16						
17	REC - SOUTH EAST COLUMN			1	20			0.0	20	1			REC - RPP, 132, 136	18						
19	REC - LOBBY			1	20	0.0			20	1			REC - COPIER 143	20						
21	REC - ROOM 113, LOBBY			1	20		0.0		20	1			REC - ROOM 135	22						
23	REC - LOBBY			1	20			0.0	20	1			REC - ROOM 137, 138	24						
25	REC - NORTH CENTER COLUMN			1	20	0.0			20	1			REC - ROOM 142	26						
27	REC - CHASE ROOM 113			1	20		0.0		20	1			REC - ROOM 126, 125, 141, 140	28						
29	REC - CHASE ROOM 113			1	20			0.0	20	1			REC - ROOM 138, 139, 140	30						
31	REC - BATHROOMS	GFCI		1	20	0.0			20	1			REC - ROOM 126, 127, 142	32						
33	WOMEN'S HAND DRYER			1	20		0.0		20	1			REC - ROOM 126	34						
35	MEN'S HAND DRYER			1	20	0.0			20	1			REC - ROOM 142, 141, 143, 144	36						
37	REC - COUNTER ROOM 127			1	20			0.0	20	1			SPARE	38						
39	REC - COPIER ROOM 127			1	20		0.0		20	1			SPARE	40						
41	REC - ROOM 127, 128			1	20			0.0	20	1			SPARE	42						
PROJECT #15209 Panel Schedules						PANEL TOTALS:			6			15			5			12/21/15		

PANEL "1HC" 480Y/277-VOLT, 3-PHASE, 4-WIRE 225-AMP, MAIN CIRCUIT BREAKER				NOTES: EXISTING COMMERCIAL BOLT-ON CIRCUIT BREAKER PANELBOARD.																	
CKT NO	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	MOUNTING: FLUSH				PHASE AMPS			BREAKER		LOAD AMPS		BRKR TYPE	REF NO	LOAD DESCRIPTION	CKT NO		
					P	AMP	A	B	C	AMP	P	AMP	P								
1	LTS - HALL AND ELEVATOR LOBBY			1	20	0.0				20	1							LTS - SOUTH SIDE	2		
3	LTS - ELEVATOR LOBBY WALL			1	20		0.0			20	1							LTS - SOUTH SIDE	4		
5	LTS - 2X2 LOBBY			1	20				0.0	20	1							LTS - SOUTH SIDE	6		
7	LTS - NORTH SIDE			1	20	0.0				20	1							LTS - SOUTH CORE	8		
9	LTS - NORTH SIDE			1	20		0.0			20	1							LTS - SOUTH CORE	10		
11	LTS - NORTH SIDE			1	20				0.0	20	1							LTS - SOUTH CORE	12		
13	LTS - NORTH CORE			1	20	0.0				20	1							HEATERS EAST	14		
15	LTS - NORTH CORE			1	20		0.0			20	1								**		
17	LTS - NORTH CORE			1	20				0.0	20	1								**		
19	WELDER PLUG			1	20	0.0				20	1							HEATERS WEST	20		
21	**			1	20		0.0			20	1								**		
23	**			1	20				0.0	20	1								**		
25	SPARE			1	20	0.0				20	1							SPARE	26		
27	SPARE			1	20		0.0			20	1							SPARE	28		
29	SPARE			1	20				0.0	20	1							SPARE	30		
31	SPARE			1	20	0.0				20	1							SPARE	32		
33	LTS - ELEVATOR & LAVATORY			1	20		0.0			20	1							SPARE	34		
35	SPARE			1	20				0.0	20	1							SPARE	36		
37	SPARE			1	20	0.0				20	1							SPARE	38		
39	SPARE			1	20		0.0			20	1							SPARE	40		
41	SPARE			1	20				0.0	20	1							TRANSFORMERS	42		
PROJECT #15209 Panel Schedules					PANEL TOTALS:				0	0	0	12/21/15									





COMcheck Software Version 3.9.2  
Interior Lighting Compliance  
Certificate

2012 IECC

Section 1: Project Information

Project Type: **New Construction**  
Project Title : City of Boise Utility Billing  
Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

A	B	C	D
Floor Area	Allowed Watts / ft2	Allowed Watts	
Utility billing office (Office)	2689	0.85	2286
Total Allowed Watts =			2286

Section 3: Interior Lighting Fixture Schedule

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
Utility billing office ( Office 2689 sq.ft.)				
LED 1: L1: GRID TROFFER; Other:	2	18	47	846
LED 1 copy 1: L1E: GRID TROFFER; Other:	2	4	47	188
Total Proposed Watts =			1034	

Section 4: Requirements Checklist

Lighting Wattage:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.  
Allowed Wattage: 2286 Proposed Wattage: 1034  
Complies: YES

Mandatory Requirements:

- ☐ 2. Dwelling units (complete independent living facilities) within commercial buildings are not required to comply with interior lighting requirements of this code provided that >=75 percent of the permanently installed fixtures other than low voltage lighting contain only high efficacy lamps.
- ☐ 3. Manual Controls: Each enclosed space has manual lighting control. Remotely located manual controls are labelled for area of service and indicate on/off status.  
Exception(s):  
☐ Security/emergency areas with 24-hour operation.  
☐ Stairways/corridors that are means of egress.
- ☐ 4. Light Reduction Controls: Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.  
Exception(s):  
☐ Only one luminaire (lamp < 100 W) in space.  
☐ An occupant-sensing device controls the area.  
☐ The area is a corridor, equipment/store rooms, restrooms, public lobby, elec./mech. room, or sleeping unit.  
☐ Areas that use < 0.6 Watts/sq.ft.

Project Title: City of Boise Utility Billing  
Data filename: Q:\2015\15209.0\Elec\04\_Calcs\15209 Boise Utility Billing.cck

Report date: 12/16/15  
Page 1 of 2

- ☐ Daylight spaces having automatic daylighting controls.
- ☐ 5. Automatic time switching controls are installed and have an override switching device. The override switching device allows for <= 2 hour operation cycle within spaces <= 5000 sq.ft., manual operation, and is readily accessible and located where the operation of the connected lights are visible or communicated to the switch.  
Exception(s):  
☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security or where lighting is intended for 24-hour operation.  
☐ Emergency egress lighting.  
☐ Spaces where lighting is controlled with occupancy sensors.  
☐ Malls, arcades, auditoriums, single tenant retail spaces, industrial facilities and arenas that are <= 20,000 sq.ft. are permitted exceed the 2-hour operation cycle limit when a captive key device override switch is installed.
- ☐ 6. Occupant sensors are installed in the following spaces and automatically turn lighting off within 30 minutes of all occupants leaving the space: Classrooms, conference/meeting/training rooms, employee lunch and break rooms, private offices, storage/janitorial rooms, restrooms, and other spaces <= 300 sq.ft. Automatic-on sensors set power on <50 percent power.  
Exception(s):  
☐ Full power automatic-on controls are permitted where manual-on operation would endanger the safety or security of the room or building occupants.
- ☐ 7. Daylight zones have either individual lighting controls independent from that of the general area lighting that are either manual or automatic and serve zones <= 2,500 sq.ft. Zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.  
Exception(s):  
☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.  
☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
- ☐ 8. Automatic daylight zone controls are capable of reducing power to < 35 percent using continuous dimming ballasts and daylight-sensing controls OR, are capable of automatic power reduction using step-dimming multi-level switching and daylight-sensing controls having at least two control channels per zone and at least one control step in the 50 - 70 percent range and another <= 35 percent of design power.
- ☐ 9. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the non-exempt lighting.
- ☐ 10. Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, under-shelf/cabinet lighting, lighting for sale, and demonstration lighting.
- ☐ 11. Hotel/motel sleeping units and guest suites have control device(s) at the entry door that control all permanent luminaires and switched receptacles.
- ☐ 12. Exit signs 5 Watts or less per sign.
- ☐ 13. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).  
Exception(s):  
☐ Electronic high-frequency ballasts.  
☐ Luminaires not on same switch.  
☐ Recessed luminaires 10 ft. apart or surface/pendant not continuous.  
☐ Luminaires on emergency circuits.

Additional Efficiency Package Requirements:

- ☐ 1. The reduced interior lighting power option has been selected as the additional efficiency package required by this energy code. Requirements for this package are applied to the interior lighting allowance calculations. Full compliance with this efficiency option requires inspection and verification that the interior lighting allowances and fixture schedule are compliant and deemed to pass.

Interior Lighting PASSES: Design 55% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Rod Ludlow / Designer 12/16/2015  
Name - Title Signature Date

Project Title: City of Boise Utility Billing  
Data filename: Q:\2015\15209.0\Elec\04\_Calcs\15209 Boise Utility Billing.cck

Report date: 12/16/15  
Page 2 of 2



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PROJECT 15209	DATE 12-23-2015
DRAWN RJL	CHECKED JLB

REVISED

SHEET TITLE

**LIGHTING  
COMPLIANCE  
FORMS**

SHEET

**E5.0**

ORIGINAL SHEET SIZE  
24" x 36"