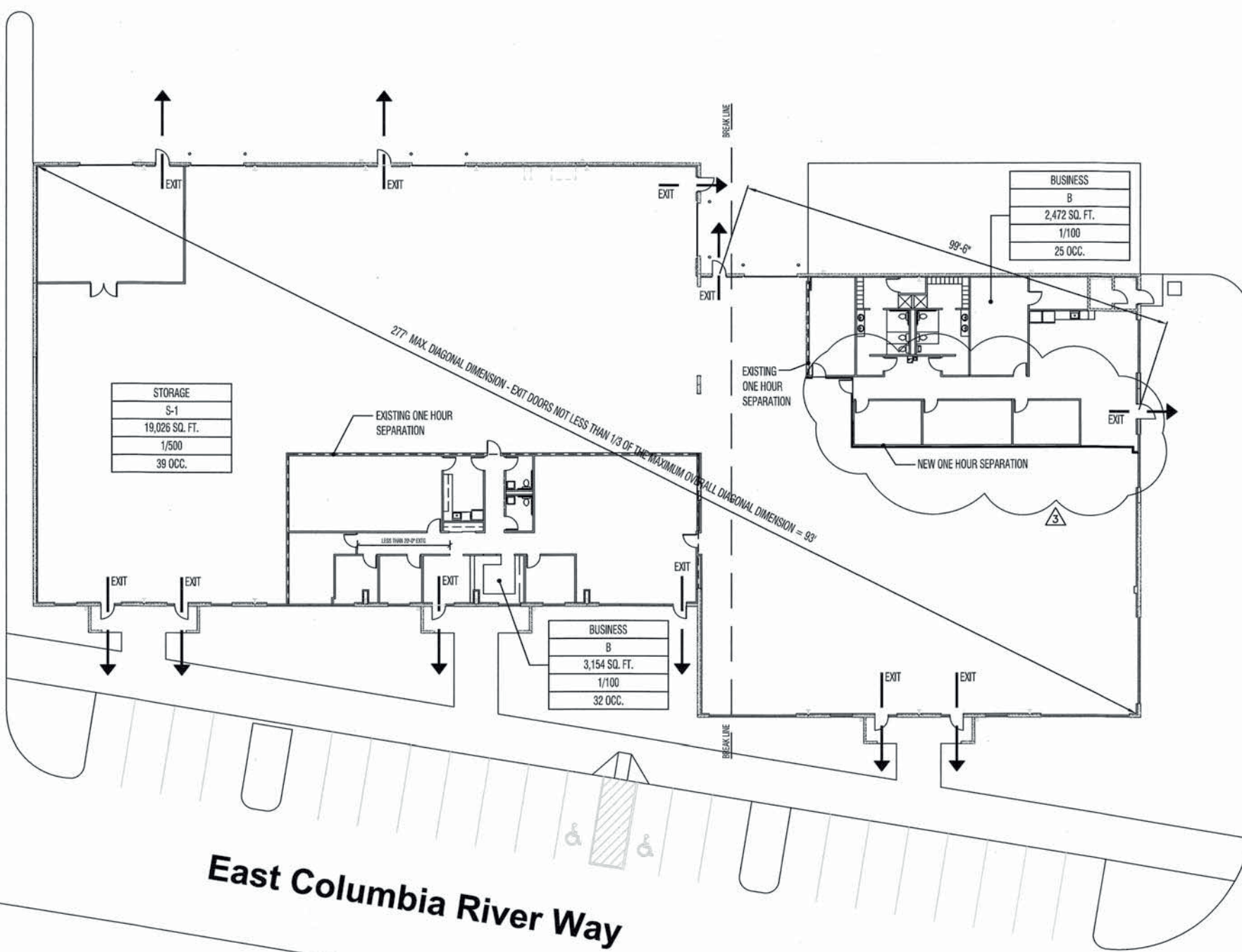




1 EXISTING SITE/CODE PLAN
1/16"=1'-0"



INSITU - IHOP ILC

118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

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Sheet Legend	Building Code Information
— New One Hour Separation - - - Existing One Hour Separation	2009 International Building Code With Washington Amendments State of Washington 2004 Structural Specialty Code Construction Type: II-N Number of Stories: 1 Allowable Area: 39,000 SF Occupancy Group: B & S-1 Total Building Area: 24,649 Business 'B' Area: 5,626 Occupant Load: 5,626/100 = 57 Storage 'S-1' Area: 19,026 Occupant Load: 19,026/500 = 39 Total Occupant: 96 Bldg is smoke detected and fire sprinklered. There are no irritating substances in use. Maintain sprinkler coverage in all new and existing spaces.

GENE BOLANTE ARCHITECT
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REGISTERED ARCHITECT
Gene C. Bolante
STATE OF WASHINGTON

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

sum
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CONSTRUCTION SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU
PROJECT NUMBER: 10009
PLOT DATE: 10.20.10
DRAWN: EHA
APPROVED: ESH
REVISIONS:
081811

COVER
SITE/DEMO
PLAN
A0.1

General Notes		Abbreviations																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
1.THESE DRAWINGS DESCRIBE TENANT IMPROVEMENTS FOR INSITU GROUP, INC 1A. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THIS BUILDING PRIOR TO COMMENCEMENT OF ANY WORK. ANY VISIBLE CONFLICTS OR OTHER ELEMENTS WHICH MAY ADVERSELY IMPACT THE WORK OF THIS CONTRACT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. 2. THESE DRAWINGS HAVE BEEN ASSEMBLED FOR USE AT THEIR CURRENT SIZE. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR WORK NOT CONFORMING TO THESE DOCUMENTS DUE TO REDUCED DRAWINGS BEING USED FOR ESTIMATING OR CONSTRUCTION PURPOSES. 3. UNLESS OTHERWISE NOTED, DIMENSIONS, PLACEMENTS AND ALIGNMENTS SHOWN ARE ALL CRITICAL FOR THE INSTALLATION OF FURNITURE AND EQUIPMENT AS WELL AS FOR THE USE OF THE SPACE BY OCCUPANTS. ACTUAL INSTALLED AND FINISHED DIMENSIONS MAY VARY UPWARD BY 1/4" BUT MAY NOT VARY DOWNWARD. WHERE +/- IS INDICATED VARIATION OF UP TO 3" SHALL BE ALLOWABLE. ALIGNMENTS OF NEW AND EXST CONDITIONS SHALL BE FINISHED TO A SMOOTH AND MONOLITHIC APPEARANCE (GAB SHALL BE OVERLAPPED TO AN INSIDE OR OUTSIDE CORNER WHERE PRACTICABLE TO AVOID CRACKING). 4. THE CONTRACTOR SHALL LAYOUT ALL OF THE WORK PRIOR TO PROCEEDING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES WITH THE LAYOUT. SUCH INSPECTION SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO CONFORM TO THE INTENT OF THE CONTRACT DOCUMENTS. 5. PREPARATION OF THE EXISTING SPACE (UNLESS INDICATED IN THE RESPONSIBILITIES LEGEND TO BE BY OTHERS) SHALL INCLUDE THE REMOVAL OF ALL ITEMS EXTRANEOUS TO THE NEW USE. EXISTING SURFACES TO BE RETAINED SHALL BE REPAIRED TO SMOOTH AND MONOLITHIC APPEARANCE, READY TO RECEIVE NEW FINISHES. REMOVALS SHALL INCLUDE (BUT NOT BY WAY OF LIMITATION): ALL EXISTING RECEPTACLES, (POWER/TELEPHONE/DATA AND RELATED WIRE AND CABLE), BOXES, CONDUIT, WALKER DUCT AND RELATED MISC FIXTURES, CONNECTORS AND ACCESSORIES WHICH WILL NOT BE REQD FOR THE CONSTRUCTION OF THE NEW SPACE. ALL OPENINGS AND DAMAGE SHALL BE REPAIRED TO PROVIDE LIKE NEW APPEARANCE. SEAL SLAB PENETRATIONS ABOVE AND BELOW AND FIRE WALL PENETRATIONS TO MAINTAIN FIRE AND ACOUSTIC INTEGRITY. 6. ALL WORK SHALL CONFORM WITH APPLICABLE CODES, RULES, ORDINANCES AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT AND CONFORM TO ALL PERTINENT SECTIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA). 7. TELEPHONE AND COMPUTER WIRING: REFER TO RESPONSIBILITIES LEGEND REGARDING INSTALLATION OF TELEPHONE AND COMPUTER WIRING. SEE ELEC/TEL/DATA PLAN FOR SCOPE OF WORK REGARDING JUNCTION BOXES, PULL STRINGS AND BOX ELIMINATORS FOR THIS PROJECT. WHERE TELEPHONE/DATA CABLING IS NOT INCLUDED IN THIS CONTRACT AND WILL BE PROVIDED BY OTHERS (TENANTS SEPARATE SUB-CONTRACTOR) THE CONTRACTOR SHALL NOTIFY THE TENANT NO LESS THAN TEN (10) DAYS PRIOR TO THE DATE REQUIRED FOR THE INSTALLATION OF TELEPHONE/DATA CABLE. 8. ALL SURFACES AND MATERIALS NEW AND EXISTING SHALL BE THOROUGHLY PREPARED SMOOTH, CLEAN, LEVEL AND EVEN. BY COMMENCING FINISH INSTALLATION THE FINISH CONTRACTOR SIGNIFIES ITS ACCEPTANCE OF THE SUBSTRATE AND THEREBY ASSUMES RESPONSIBILITY FOR THE QUALITY OF THE INSTALLATION. 9. SUBMITTALS a GENERAL THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES THE GENERAL CONTRACTOR SHALL THOROUGHLY REVIEW AND CHECK ALL SUBMITTALS, COORDINATING SEPARATE TRADES AND VERIFYING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE ARCHITECT SHALL NOT REVIEW AND WILL SUMMARILY RETURN WITHOUT REVIEW ANY DRAWINGS OR SUBMITTALS WHICH HAVE NOT BEEN ACCORDINGLY REVIEWED AND BEAR THE APPROPRIATE STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS SHALL INCLUDE SHOP DRAWINGS, SCHEDULES AND MANUFACTURER'S PRODUCT AND EQUIPMENT CUTS FOR ALL FIXTURES, EQUIPMENT, FINISHES, SPECIAL MATERIALS, SPECIALTIES, MILLWORK & CASEWORK, DOORS, FRAMES, AND HARDWARE. b FINISH MATERIALS CONTRACTOR SHALL SUBMIT SAMPLES OF ALL FINISHES AND MATERIALS. FINISHES SHALL BE ON ACTUAL MATERIALS. c CUT SHEETS CONTRACTOR SHALL SUBMIT MANUFACTURERS CUTS AND SPEC SHEETS FOR ALL FIXTURES (INCL LIGHTING), EQUIPMENT, SPECIAL MATERIALS, SPECIALTIES, DOORS, FRAMES AND HARDWARE. d MINIMUM SAMPLE SIZE WOOD VENEERED PRODUCTS - 8 1/2" x 11" x 1/4" SOLID LUMBER - 50 SQ INCHES OTHER FINISHES AND MISC MATERIALS - 6" x 6" e WOODWORK CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CASEWORK AND MILLWORK, AND FINISHED SAMPLES OF ALL NATURAL FINISH WOODWORK FOR REVIEW, ALLOWING ADEQUATE TIME FOR REVIEW PRIOR TO REQUIRED FABRICATION DATES. f QUANTITY OF SUBMITTALS CONTRACTOR SHALL SUBMIT 4 COPIES OF ALL SUBMITTALS. g SUBMITTAL MARKINGS THE SAMPLES SHALL BEAR IDENTIFICATION OF THE PROJECT, ARCHITECT, GENERAL CONTRACTOR, AND THE MANUFACTURER. h QUALITY GRADE OF MILLWORK AND CASEWORK AWI QUALITY STANDARDS AND SPECIFICATIONS SHALL GOVERN ACCORDING TO THE FOLLOWING GRADES: CASEWORK: CUSTOM GRADE NATURAL FINISH MILLWORK: PREMIUM GRADE RUNNING TRIM: CUSTOM GRADE ARCHITECTURAL FLUSH DOORS (NATURAL FINISH): PREMIUM GRADE 10. SPECIFICATIONS OF MATERIAL AND EQUIPMENT BY THE USE OF NAME, MODEL NUMBER, AND/OR GENERAL DESCRIPTION SHALL BE USED AS A GUIDE ONLY AND SHALL NOT EXCLUDE ALL OF THE REQUIRED & APPROPRIATE ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.	11. COORDINATE INSTALLATIONS WITH EQUIPMENT DIMENSIONS, INCLUDING EQUIPMENT TO BE INSTALLED BY THE TENANT. 12. ALL WORK SHALL CONFORM TO STANDARDS OF THE INDUSTRY FOR FIRST QUALITY WORKMANSHIP AND MATERIALS AND SHALL STRICTLY CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. 13. MATERIALS ARE SPECIFIED BY NAME, MODEL NUMBER AND DESCRIPTION WHERE PRACTICABLE IN ORDER TO AVOID INACCURACIES. THE CONTRACTOR SHALL REVIEW ALL SPECIFICATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN THESE DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK. 14. FLOOR MATERIAL CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS EXCEPT WHERE NOTED. CHANGES OF MATERIAL (VCT TO CARPET) SHALL BE MADE WITH A VINYL REDUCER STRIP, COLOR AND STYLE TO BE SELECTED BY THE ARCHITECT. SEE THRESHOLD DETAILS ATTACHED TO THE DOOR SCHEDULE FOR SPECIAL CONDITIONS (IF ANY). 15. BLOCKING AND GROUNDS AT AREAS WHICH HAVE MILLWORK, SHELVING, AND TENANT FURNISHED FURNITURE WALL CABINETS INDICATED ON THE DRAWINGS SHALL BE INCLUDED WITH THE WORK. ALL WOOD BLOCKING SHALL BE FIRE TREATED WHERE AND AS REQD BY CODE. 16. THE CONTRACTOR SHALL, PRIOR TO COMMENCING WORK ON THE PROJECT, COMPLETE A THOROUGH SURVEY OF THE GLASS, GLAZING AND WINDOW FILM (IF ANY) AT THE EXISTING PERIMETER WINDOWS AND REPORT TO THE LANDLORD AND ARCHITECT ANY DAMAGED PRE-EXISTING CONDITIONS. REPAIRS OF ANY DAMAGES WHICH ARE NOT REPORTED PRIOR TO COMMENCING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 17. EXISTING DOORS, FRAMES, BASE AND TRIM WHICH IS SCHEDULED TO REMAIN SHALL UNLESS OTHERWISE NOTED BE PAINTED TO MATCH NEW DOORS, FRAMES AND TRIM. REMOVE LOOSE OR DAMAGED PAINT AND THOROUGHLY PREPARE SURFACES TO RECEIVE NEW FINISHES AND AS-NEW APPEARANCE. 18. RETAINED BASE BUILDING ITEMS SUCH AS CONVECTOR COVERS, SHALL BE PREPARED FOR REPAINTING AND SHALL BE REPAINT WITH MOHAIR ROLLER IN COLOR MATCHING WALLS(UNLESS OTHERWISE NOTED). EXST WINDOW MULLIONS SHALL BE TOUCHED-UP AT ALL SCRATCHES, GOUGES, DINGS AND BLEMISHES, RETURNING THEM IN LIKE-NEW APPEARANCE. OTHER RETAINED ITEMS (SUITE ENTRANCES, ETC.) WHERE INDICATED SHALL BE TOUCHED UP OR REFINISHED AS REQD TO DELIVER THEM IN LIKE NEW CONDITION. 19. DESIGN/BUILD - FIRE WARNING SYSTEM CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE WARNING AND DETECTION SYSTEMS (INCLUDING HORNS, STROBES, PULL STATIONS AND THE LIKE) IN OPERATIONAL ORDER (INCLUDING DURING CONSTRUCTION WHERE AND AS REQD BY THE BUILDING). WHERE NEW WORK REQUIRES THE RELOCATION OF EXISTING UNITS AND/OR THE ADDITION OF NEW UNITS THE CONTRACTOR SHALL COMPLY WITH INSTRUCTIONS OF THE LANDLORD/BUILDING ENGINEER AND THE REQUIREMENTS OF GOVERNING AUTHORITIES. 20. DESIGN/BUILD - MECHANICAL/ELECTRICAL/PLUMBING/SPRINKLER a DESIGN/BUILD SERVICES SHALL BE REQUIRED OF THE CONTRACTOR FOR THE MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER PORTIONS OF THE WORK. ALL SYSTEMS NEW AND EXISTING SHALL BE DESIGNED, MODIFIED, PROVIDED AND/OR INSTALLED AS REQUIRED BY THE NEW LAYOUT. b CONFORM TO APPLICABLE CODES, ORDINANCES, SPECIFIC BUILDING STANDARDS AND INDUSTRY STANDARDS FOR FIRST CLASS INSTALLATIONS OF ALL SYSTEMS. COMPLY WITH BUILDING AND LEASE SPECIFIC REQUIREMENTS FOR EMERGENCY LIGHTING, ELECTRICAL SERVICE AND SUB-METERING (CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ADEQUACY OF SERVICE AND PANEL SPACE). CONTRACTOR SHALL FIELD VERIFY AND CONFIRM WITH THE BUILDING PRIOR TO SUBMITTING THEIR BID FOR THE WORK. c CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DESIGN AND DOCUMENTATION (INCLUDING REQUIRED DESIGN DOCUMENTS PROFESSIONALLY SEALED BY AN ENGINEER WHERE AND AS REQUIRED BY THE LOCAL JURISDICTION) AS MAY BE REQUIRED FOR THE FULL AND COMPLETE INSTALLATION OF HVAC, POWER, LIGHTING AND SPRINKLER SYSTEMS, AS WELL AS APPLYING AND OBTAINING ALL PERMITS, APPROVALS, INSPECTIONS AND CERTIFICATES REQUIRED FOR THE COMPLETION OF THE PROJECT FOR OCCUPANCY. d CONTRACTOR SHALL SUBMIT HVAC DESIGN DRAWINGS AND PRODUCT SUBMITTALS TO THE ARCHITECT AND THE BUILDING FOR REVIEW AND APPROVAL, INCLUDING CLEAR INDICATIONS OF ZONES, LOCATIONS OF SUPPLY AND RETURN DIFFUSERS AND THERMOSTAT LOCATIONS. CONTRACTOR SHALL PROVIDE HVAC BALANCING REPORT IN TRIPLICATE TO THE ARCHITECT AND THE BUILDING UPON COMPLETION OF THE INSTALLATION AND BALANCING. e FIRE SUPPRESSION SYSTEM: CONTRACTOR SHALL MODIFY EXISTING FIRE SUPPRESSION SYSTEM CONSISTENT WITH REQUIREMENTS OF CODE, NEW USE, NFPA, AND OWNER'S INSURANCE UNDERWRITER. SUBMIT SHOP DRAWINGS FOR APPROVAL OF BUILDING'S ENGINEER. f SPRINKLER HEAD TYPES: AT GWB CEILING: FULLY RECESSED FLUSH MTD TYPE WITH WHITE COVER PLATES AT SUSP ACOUSTIC TILE CEILING: BUILDING STANDARD EXPOSED LOCATION IN CEILING TILE: CENTERING NOT REQUIRED, MAINTAIN MIN 6" FR GRID. g CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE AS-BUILT DOCUMENTS AT THE COMPLETION OF THE PROJECT AND SHALL SUBMIT REPRODUCIBLE COPIES TO THE LANDLORD FOR THEIR RECORDS. END OF GENERAL NOTES.	<table><tr><td>&</td><td>AND</td><td>FDN.</td><td>FOUNDATION</td><td>NAT.</td><td>NATURAL</td><td>V.P.</td><td>VENEER PLASTER</td></tr><tr><td>@</td><td>AT</td><td>F.E.C.</td><td>FIRE EXTINGUISHER CAB.</td><td>NOM.</td><td>NOMINAL</td><td>V.T.R.</td><td>VENT THRU ROOF</td></tr><tr><td>ACT.</td><td>ACOUSTIC</td><td>FAB.</td><td>FABRICATE</td><td>N.I.C.</td><td>NOT IN CONTRACT</td><td>VERT.</td><td>VERTICAL</td></tr><tr><td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td><td>FT. or '</td><td>FOOT or FEET</td><td>N.T.S.</td><td>NOT TO SCALE</td><td>V.C.T.</td><td>VINYL COMPOSITION TILE</td></tr><tr><td>ALUM.</td><td>ALUMINUM</td><td>FIN.</td><td>FINISH</td><td>NO. or #</td><td>NUMBER</td><td>VEST.</td><td>VESTIBULE</td></tr><tr><td>ARCH.</td><td>ARCHITECT(URAL)</td><td>FP.</td><td>FIREPROOF</td><td>N.</td><td>NORTH</td><td></td><td></td></tr><tr><td>AVG.</td><td>AVERAGE</td><td>FLR.</td><td>FLOOR</td><td>O.C.</td><td>ON CENTER</td><td>WCT.</td><td>WAINSCOT</td></tr><tr><td>L</td><td>ANGLE</td><td>FLUOR.</td><td>FLUORESCENT</td><td>OPG.</td><td>OPENING</td><td>W.C.</td><td>WATER CLOSET</td></tr><tr><td>APPROX.</td><td>APPROXIMATE</td><td>F.S.</td><td>FULL SIZE</td><td>OPP.</td><td>OPPOSITE</td><td>WP.</td><td>WATERPROOF</td></tr><tr><td>ADJ.</td><td>ADJUSTABLE</td><td>FURN.</td><td>FURNISH</td><td>O.D.</td><td>OUTSIDE DIAMETER</td><td>WT.</td><td>WEIGHT</td></tr><tr><td>AGGR.</td><td>AGGREGATE</td><td>FTG.</td><td>FOOTING</td><td>OBS.</td><td>OBSCURE</td><td>W.</td><td>WIDTH / WEST</td></tr><tr><td>ASB.</td><td>ASBESTOS</td><td>F.O.I.C.</td><td>FINISHED BY OWNER, INSTALLED BY CONTRACTOR</td><td>OFF.</td><td>OFFICE</td><td>W/O</td><td>WITHOUT</td></tr><tr><td>ASPH.</td><td>ASPHALT</td><td></td><td></td><td></td><td></td><td>WD.</td><td>WOOD</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>W.I.</td><td>WROUGHT IRON</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>W.R.</td><td>WATER RESISTANT</td></tr><tr><td>BM.</td><td>BEAM</td><td>F.A.</td><td>FIRE ALARM</td><td>PR.</td><td>PAIR</td><td></td><td></td></tr><tr><td>BD.</td><td>BOARD</td><td>F.B.</td><td>FLAT BAR</td><td>PLAST.</td><td>PLASTER</td><td></td><td></td></tr><tr><td>BLDG.</td><td>BUILDING</td><td>F.D.</td><td>FLOOR DRAIN</td><td>P.L.</td><td>PLASTIC LAMINATE</td><td></td><td></td></tr><tr><td>BLT-IN</td><td>BUILT-IN</td><td>F.E.</td><td>FIRE EXTINGUISHER</td><td>PLBG.</td><td>PLUMBING</td><td></td><td></td></tr><tr><td>BITUM.</td><td>BITUMINOUS</td><td>F.F.E.</td><td>FINISHED FLOOR ELEVATION</td><td>PLYWD.</td><td>PLYWOOD</td><td></td><td></td></tr><tr><td>BLK.</td><td>BLOCK</td><td>F.H.C.</td><td>FIRE HOSE CABINET</td><td>> OR PL.</td><td>PLATE</td><td></td><td></td></tr><tr><td>BLKG.</td><td>BLOCKING</td><td>FLASH'G.</td><td>FLASHING</td><td>P.T.</td><td>PRESERVATIVE TREATED</td><td></td><td></td></tr><tr><td>BOT.</td><td>BOTTOM</td><td>F.O.C.</td><td>FACE OF CONCRETE</td><td>PART. BD.</td><td>PARTICLE BOARD</td><td></td><td></td></tr><tr><td>BRK.</td><td>BRICK</td><td>F.O.F.</td><td>FACE OF FINISH</td><td>PTN.</td><td>PARTITION</td><td></td><td></td></tr><tr><td></td><td></td><td>F.S.</td><td>FULL SIZE</td><td>QTY.</td><td>QUANTITY</td><td></td><td></td></tr><tr><td>C.J.</td><td>CONTROL JOINT</td><td>FURR.</td><td>FURRING</td><td>Q.T.</td><td>QUARRY TILE</td><td></td><td></td></tr><tr><td>CAB.</td><td>CABINET</td><td>FUT.</td><td>FUTURE</td><td>RAD.</td><td>RADIUS</td><td></td><td></td></tr><tr><td>CLG.</td><td>CEILING</td><td></td><td></td><td>REF.</td><td>REFERENCE</td><td></td><td></td></tr><tr><td>C.L. or <</td><td>CENTER LINE</td><td>GALV.</td><td>GALVANIZED</td><td>REINF.</td><td>REINFORCE</td><td></td><td></td></tr><tr><td>CER.</td><td>CERAMIC</td><td>GA.</td><td>GAUGE</td><td>RESIL.</td><td>RESILIENT</td><td></td><td></td></tr><tr><td>CLR.</td><td>CLEAR</td><td>GEN'L</td><td>GENERAL</td><td>REQ'D</td><td>REQUIRED</td><td></td><td></td></tr><tr><td>C.W.</td><td>COLD WATER</td><td>GL.</td><td>GLASS</td><td>REV.</td><td>REVISION</td><td></td><td></td></tr><tr><td>COL.</td><td>COLUMN</td><td>GYP.BD.</td><td>GYPSPUM BOARD</td><td>R.</td><td>RISER</td><td></td><td></td></tr><tr><td>CONC.</td><td>CONCRETE</td><td>G.W.X.</td><td>GYPSPUM BOARD (TYPE X)</td><td>RM.</td><td>ROOM</td><td></td><td></td></tr><tr><td>C.M.U.</td><td>CONC. MASONRY UNIT</td><td>GL. BM.</td><td>GLULAM BEAM</td><td>R.O.</td><td>ROUGH OPENING</td><td></td><td></td></tr><tr><td>CONST.</td><td>CONSTRUCTION</td><td>GND.</td><td>GROUND</td><td>R.D.</td><td>ROOF DRAIN</td><td></td><td></td></tr><tr><td>CONT.</td><td>CONTINUOUS</td><td>GR.</td><td>GRADE</td><td>REDWD.</td><td>REDWOOD</td><td></td><td></td></tr><tr><td>CONTR.</td><td>CONTRACTOR</td><td></td><td></td><td>REFR.</td><td>REFRIGERATOR</td><td></td><td></td></tr><tr><td>C.T.</td><td>CERAMIC TILE</td><td>H.B.</td><td>HOSE BIBB</td><td>RGTR.</td><td>REGISTER</td><td></td><td></td></tr><tr><td>C.B.</td><td>CATCH BASIN</td><td>HDCP.</td><td>HANDICAPPED</td><td></td><td></td><td></td><td></td></tr><tr><td>CEM.</td><td>CEMENT</td><td>HDWR.</td><td>HARDWARE</td><td>SCH.</td><td>SCHEDULE</td><td></td><td></td></tr><tr><td>C.I.</td><td>CAST IRON</td><td>HDWD.</td><td>HARDWOOD</td><td>SECT.</td><td>SECTION</td><td></td><td></td></tr><tr><td>CLO.</td><td>CLOSET</td><td>HGT.</td><td>HEIGHT</td><td>SHT.</td><td>SHEET</td><td></td><td></td></tr><tr><td>CNTR.</td><td>COUNTER</td><td>H.C.</td><td>HOLLOW CORE</td><td>SIM.</td><td>SIMILAR</td><td></td><td></td></tr><tr><td>CONN.</td><td>CONNECTION</td><td>HORIZ.</td><td>HORIZONTAL</td><td>S.C.</td><td>SOLID CORE</td><td></td><td></td></tr><tr><td>CORR.</td><td>CORRIDOR</td><td>H.W.</td><td>HOT WATER</td><td>SPEC(S).</td><td>SPECIFICATION(S)</td><td></td><td></td></tr><tr><td>CTR.</td><td>CENTER</td><td>H.M.</td><td>HOLLOW METAL</td><td>SQ. or '</td><td>SQUARE</td><td></td><td></td></tr><tr><td>CTSK.</td><td>COUNTERSUNK</td><td>HDBD.</td><td>HARDBOARD</td><td>S.S.</td><td>STAINLESS STEEL</td><td></td><td></td></tr><tr><td></td><td></td><td>H.R.</td><td>HANDRAIL</td><td>STD.</td><td>STANDARD</td><td></td><td></td></tr><tr><td>DEMO.</td><td>DEMOLITION</td><td>HGR.</td><td>HANGER</td><td>STL.</td><td>STEEL</td><td></td><td></td></tr><tr><td>DET.</td><td>DETAIL</td><td></td><td></td><td>SUSP.</td><td>SUSPENDED</td><td></td><td></td></tr><tr><td>DIA. or ~</td><td>DIAMETER</td><td>IN. or "</td><td>INCH(ES)</td><td>SYS.</td><td>SYSTEM</td><td></td><td></td></tr><tr><td>DIM.</td><td>DIMENSION</td><td>INSUL.</td><td>INSULATION</td><td>S.V.</td><td>SHEET VINYL</td><td></td><td></td></tr><tr><td>DR.</td><td>DOOR</td><td>I.D.</td><td>INSIDE DIAMETER</td><td>S.</td><td>SOUTH</td><td></td><td></td></tr><tr><td>DN.</td><td>DOWN</td><td></td><td></td><td>SHR.</td><td>SHOWER</td><td></td><td></td></tr><tr><td>DWG.</td><td>DRAWING</td><td>JT.</td><td>JOINT</td><td>SHTG.</td><td>SHEATHING</td><td></td><td></td></tr><tr><td>D.F.</td><td>DRINKING FOUNTAIN</td><td>JAN.</td><td>JANITOR</td><td>STA.</td><td>STATION</td><td></td><td></td></tr><tr><td>DBL.</td><td>DOUBLE</td><td>KIT.</td><td>KITCHEN</td><td>STOR.</td><td>STORAGE</td><td></td><td></td></tr><tr><td>DEPT.</td><td>DEPARTMENT</td><td></td><td></td><td>SYM.</td><td>SYMMETRICAL</td><td></td><td></td></tr><tr><td>DWR.</td><td>DRAWER</td><td>LAV.</td><td>LAVATORY</td><td></td><td></td><td></td><td></td></tr><tr><td>D.S.</td><td>DOWNSPOUT</td><td>LTG.</td><td>LIGHTING</td><td>TEL.</td><td>TELEPHONE</td><td></td><td></td></tr><tr><td>D.S.P.</td><td>DRY STANDPIPE</td><td>LIN.</td><td>LINEAR</td><td>TEMP.</td><td>TEMPERATURE</td><td></td><td></td></tr><tr><td></td><td></td><td>LB. or #</td><td>POUND</td><td>T&G</td><td>TONGUE AND GROOVE</td><td></td><td></td></tr><tr><td>EA.</td><td>EACH</td><td>LAB.</td><td>LABORATORY</td><td>T.</td><td>TREAD</td><td></td><td></td></tr><tr><td>ELEC.</td><td>ELECTRIC</td><td>LAM.</td><td>LAMINATE</td><td>TYP.</td><td>TYPICAL</td><td></td><td></td></tr><tr><td>E.W.C.</td><td>ELEC. WATER COOLER</td><td></td><td></td><td>T.O.</td><td>TOP OF</td><td></td><td></td></tr><tr><td>EQ.</td><td>EQUAL</td><td>MFR.</td><td>MANUFACTURE</td><td>T.C.</td><td>TOP OF CURB</td><td></td><td></td></tr><tr><td>EQUIP.</td><td>EQUIPMENT</td><td>M.O.</td><td>MASONRY OPENING</td><td>TER.</td><td>TERRAZZO</td><td></td><td></td></tr><tr><td>(E) OR EXIST.</td><td>EXISTING</td><td>MAT'L</td><td>MATERIAL</td><td>THK.</td><td>THICK</td><td></td><td></td></tr><tr><td>EXT.</td><td>EXTERIOR</td><td>MTL.</td><td>METAL</td><td>TOIL.</td><td>TOILET</td><td></td><td></td></tr><tr><td>ELEV.</td><td>ELEVATION</td><td>MAX.</td><td>MAXIMUM</td><td>T.P.</td><td>TOP OF PAVEMENT</td><td></td><td></td></tr><tr><td></td><td>EAST</td><td>MECH.</td><td>MECHANICAL</td><td>T.V.</td><td>TELEVISION</td><td></td><td></td></tr><tr><td>EMER.</td><td>EMERGENCY</td><td>MIN.</td><td>MINIMUM</td><td>T.W.</td><td>TOP OF WALL</td><td></td><td></td></tr><tr><td>ENCL.</td><td>ENCLOSURE</td><td>MISC.</td><td>MISCELLANEOUS</td><td></td><td></td><td></td><td></td></tr><tr><td>E.P.</td><td>ELECTRICAL PANELBOARD</td><td>MULL.</td><td>MULLION</td><td>UNF.</td><td>UNFINISHED</td><td></td><td></td></tr><tr><td></td><td></td><td>MEMB.</td><td>MEMBRANE</td><td>UR.</td><td>URINAL</td><td></td><td></td></tr><tr><td></td><td></td><td>MH.</td><td>MANHOLE</td><td>U.N.O.</td><td>UNLESS NOTED OTHERWISE</td><td></td><td></td></tr><tr><td></td><td></td><td>MTD.</td><td>MOUNTED</td><td></td><td></td><td></td><td></td></tr></table>	&	AND	FDN.	FOUNDATION	NAT.	NATURAL	V.P.	VENEER PLASTER	@	AT	F.E.C.	FIRE EXTINGUISHER CAB.	NOM.	NOMINAL	V.T.R.	VENT THRU ROOF	ACT.	ACOUSTIC	FAB.	FABRICATE	N.I.C.	NOT IN CONTRACT	VERT.	VERTICAL	A.F.F.	ABOVE FINISHED FLOOR	FT. or '	FOOT or FEET	N.T.S.	NOT TO SCALE	V.C.T.	VINYL COMPOSITION TILE	ALUM.	ALUMINUM	FIN.	FINISH	NO. or #	NUMBER	VEST.	VESTIBULE	ARCH.	ARCHITECT(URAL)	FP.	FIREPROOF	N.	NORTH			AVG.	AVERAGE	FLR.	FLOOR	O.C.	ON CENTER	WCT.	WAINSCOT	L	ANGLE	FLUOR.	FLUORESCENT	OPG.	OPENING	W.C.	WATER CLOSET	APPROX.	APPROXIMATE	F.S.	FULL SIZE	OPP.	OPPOSITE	WP.	WATERPROOF	ADJ.	ADJUSTABLE	FURN.	FURNISH	O.D.	OUTSIDE DIAMETER	WT.	WEIGHT	AGGR.	AGGREGATE	FTG.	FOOTING	OBS.	OBSCURE	W.	WIDTH / WEST	ASB.	ASBESTOS	F.O.I.C.	FINISHED BY OWNER, INSTALLED BY CONTRACTOR	OFF.	OFFICE	W/O	WITHOUT	ASPH.	ASPHALT					WD.	WOOD							W.I.	WROUGHT IRON							W.R.	WATER RESISTANT	BM.	BEAM	F.A.	FIRE ALARM	PR.	PAIR			BD.	BOARD	F.B.	FLAT BAR	PLAST.	PLASTER			BLDG.	BUILDING	F.D.	FLOOR DRAIN	P.L.	PLASTIC LAMINATE			BLT-IN	BUILT-IN	F.E.	FIRE EXTINGUISHER	PLBG.	PLUMBING			BITUM.	BITUMINOUS	F.F.E.	FINISHED FLOOR ELEVATION	PLYWD.	PLYWOOD			BLK.	BLOCK	F.H.C.	FIRE HOSE CABINET	> OR PL.	PLATE			BLKG.	BLOCKING	FLASH'G.	FLASHING	P.T.	PRESERVATIVE TREATED			BOT.	BOTTOM	F.O.C.	FACE OF CONCRETE	PART. BD.	PARTICLE BOARD			BRK.	BRICK	F.O.F.	FACE OF FINISH	PTN.	PARTITION					F.S.	FULL SIZE	QTY.	QUANTITY			C.J.	CONTROL JOINT	FURR.	FURRING	Q.T.	QUARRY TILE			CAB.	CABINET	FUT.	FUTURE	RAD.	RADIUS			CLG.	CEILING			REF.	REFERENCE			C.L. or <	CENTER LINE	GALV.	GALVANIZED	REINF.	REINFORCE			CER.	CERAMIC	GA.	GAUGE	RESIL.	RESILIENT			CLR.	CLEAR	GEN'L	GENERAL	REQ'D	REQUIRED			C.W.	COLD WATER	GL.	GLASS	REV.	REVISION			COL.	COLUMN	GYP.BD.	GYPSPUM BOARD	R.	RISER			CONC.	CONCRETE	G.W.X.	GYPSPUM BOARD (TYPE X)	RM.	ROOM			C.M.U.	CONC. MASONRY UNIT	GL. BM.	GLULAM BEAM	R.O.	ROUGH OPENING			CONST.	CONSTRUCTION	GND.	GROUND	R.D.	ROOF DRAIN			CONT.	CONTINUOUS	GR.	GRADE	REDWD.	REDWOOD			CONTR.	CONTRACTOR			REFR.	REFRIGERATOR			C.T.	CERAMIC TILE	H.B.	HOSE BIBB	RGTR.	REGISTER			C.B.	CATCH BASIN	HDCP.	HANDICAPPED					CEM.	CEMENT	HDWR.	HARDWARE	SCH.	SCHEDULE			C.I.	CAST IRON	HDWD.	HARDWOOD	SECT.	SECTION			CLO.	CLOSET	HGT.	HEIGHT	SHT.	SHEET			CNTR.	COUNTER	H.C.	HOLLOW CORE	SIM.	SIMILAR			CONN.	CONNECTION	HORIZ.	HORIZONTAL	S.C.	SOLID CORE			CORR.	CORRIDOR	H.W.	HOT WATER	SPEC(S).	SPECIFICATION(S)			CTR.	CENTER	H.M.	HOLLOW METAL	SQ. or '	SQUARE			CTSK.	COUNTERSUNK	HDBD.	HARDBOARD	S.S.	STAINLESS STEEL					H.R.	HANDRAIL	STD.	STANDARD			DEMO.	DEMOLITION	HGR.	HANGER	STL.	STEEL			DET.	DETAIL			SUSP.	SUSPENDED			DIA. or ~	DIAMETER	IN. or "	INCH(ES)	SYS.	SYSTEM			DIM.	DIMENSION	INSUL.	INSULATION	S.V.	SHEET VINYL			DR.	DOOR	I.D.	INSIDE DIAMETER	S.	SOUTH			DN.	DOWN			SHR.	SHOWER			DWG.	DRAWING	JT.	JOINT	SHTG.	SHEATHING			D.F.	DRINKING FOUNTAIN	JAN.	JANITOR	STA.	STATION			DBL.	DOUBLE	KIT.	KITCHEN	STOR.	STORAGE			DEPT.	DEPARTMENT			SYM.	SYMMETRICAL			DWR.	DRAWER	LAV.	LAVATORY					D.S.	DOWNSPOUT	LTG.	LIGHTING	TEL.	TELEPHONE			D.S.P.	DRY STANDPIPE	LIN.	LINEAR	TEMP.	TEMPERATURE					LB. or #	POUND	T&G	TONGUE AND GROOVE			EA.	EACH	LAB.	LABORATORY	T.	TREAD			ELEC.	ELECTRIC	LAM.	LAMINATE	TYP.	TYPICAL			E.W.C.	ELEC. WATER COOLER			T.O.	TOP OF			EQ.	EQUAL	MFR.	MANUFACTURE	T.C.	TOP OF CURB			EQUIP.	EQUIPMENT	M.O.	MASONRY OPENING	TER.	TERRAZZO			(E) OR EXIST.	EXISTING	MAT'L	MATERIAL	THK.	THICK			EXT.	EXTERIOR	MTL.	METAL	TOIL.	TOILET			ELEV.	ELEVATION	MAX.	MAXIMUM	T.P.	TOP OF PAVEMENT				EAST	MECH.	MECHANICAL	T.V.	TELEVISION			EMER.	EMERGENCY	MIN.	MINIMUM	T.W.	TOP OF WALL			ENCL.	ENCLOSURE	MISC.	MISCELLANEOUS					E.P.	ELECTRICAL PANELBOARD	MULL.	MULLION	UNF.	UNFINISHED					MEMB.	MEMBRANE	UR.	URINAL					MH.	MANHOLE	U.N.O.	UNLESS NOTED OTHERWISE					MTD.	MOUNTED				
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CAB.	CABINET	FUT.	FUTURE	RAD.	RADIUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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C.L. or <	CENTER LINE	GALV.	GALVANIZED	REINF.	REINFORCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CER.	CERAMIC	GA.	GAUGE	RESIL.	RESILIENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CLR.	CLEAR	GEN'L	GENERAL	REQ'D	REQUIRED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
C.W.	COLD WATER	GL.	GLASS	REV.	REVISION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
COL.	COLUMN	GYP.BD.	GYPSPUM BOARD	R.	RISER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CONC.	CONCRETE	G.W.X.	GYPSPUM BOARD (TYPE X)	RM.	ROOM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
C.M.U.	CONC. MASONRY UNIT	GL. BM.	GLULAM BEAM	R.O.	ROUGH OPENING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CONST.	CONSTRUCTION	GND.	GROUND	R.D.	ROOF DRAIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CONT.	CONTINUOUS	GR.	GRADE	REDWD.	REDWOOD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CONTR.	CONTRACTOR			REFR.	REFRIGERATOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
C.T.	CERAMIC TILE	H.B.	HOSE BIBB	RGTR.	REGISTER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
C.B.	CATCH BASIN	HDCP.	HANDICAPPED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CEM.	CEMENT	HDWR.	HARDWARE	SCH.	SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
C.I.	CAST IRON	HDWD.	HARDWOOD	SECT.	SECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CLO.	CLOSET	HGT.	HEIGHT	SHT.	SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CNTR.	COUNTER	H.C.	HOLLOW CORE	SIM.	SIMILAR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CONN.	CONNECTION	HORIZ.	HORIZONTAL	S.C.	SOLID CORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CORR.	CORRIDOR	H.W.	HOT WATER	SPEC(S).	SPECIFICATION(S)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CTR.	CENTER	H.M.	HOLLOW METAL	SQ. or '	SQUARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CTSK.	COUNTERSUNK	HDBD.	HARDBOARD	S.S.	STAINLESS STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		H.R.	HANDRAIL	STD.	STANDARD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DEMO.	DEMOLITION	HGR.	HANGER	STL.	STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DET.	DETAIL			SUSP.	SUSPENDED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DIA. or ~	DIAMETER	IN. or "	INCH(ES)	SYS.	SYSTEM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DIM.	DIMENSION	INSUL.	INSULATION	S.V.	SHEET VINYL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DR.	DOOR	I.D.	INSIDE DIAMETER	S.	SOUTH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DN.	DOWN			SHR.	SHOWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DWG.	DRAWING	JT.	JOINT	SHTG.	SHEATHING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
D.F.	DRINKING FOUNTAIN	JAN.	JANITOR	STA.	STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DBL.	DOUBLE	KIT.	KITCHEN	STOR.	STORAGE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DEPT.	DEPARTMENT			SYM.	SYMMETRICAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DWR.	DRAWER	LAV.	LAVATORY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
D.S.	DOWNSPOUT	LTG.	LIGHTING	TEL.	TELEPHONE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
D.S.P.	DRY STANDPIPE	LIN.	LINEAR	TEMP.	TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		LB. or #	POUND	T&G	TONGUE AND GROOVE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EA.	EACH	LAB.	LABORATORY	T.	TREAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
ELEC.	ELECTRIC	LAM.	LAMINATE	TYP.	TYPICAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
E.W.C.	ELEC. WATER COOLER			T.O.	TOP OF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EQ.	EQUAL	MFR.	MANUFACTURE	T.C.	TOP OF CURB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EQUIP.	EQUIPMENT	M.O.	MASONRY OPENING	TER.	TERRAZZO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
(E) OR EXIST.	EXISTING	MAT'L	MATERIAL	THK.	THICK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EXT.	EXTERIOR	MTL.	METAL	TOIL.	TOILET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
ELEV.	ELEVATION	MAX.	MAXIMUM	T.P.	TOP OF PAVEMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	EAST	MECH.	MECHANICAL	T.V.	TELEVISION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EMER.	EMERGENCY	MIN.	MINIMUM	T.W.	TOP OF WALL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
ENCL.	ENCLOSURE	MISC.	MISCELLANEOUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
E.P.	ELECTRICAL PANELBOARD	MULL.	MULLION	UNF.	UNFINISHED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		MEMB.	MEMBRANE	UR.	URINAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		MH.	MANHOLE	U.N.O.	UNLESS NOTED OTHERWISE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		MTD.	MOUNTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Symbols List  ASSUMED NORTH ARROW  ROOM NAME/NUMBER  DETAIL NAME  SCALE NOTATION  NOTE  DETAIL REF. #  DETAIL DRAWING NUMBER  VIEW  DETAIL REF. # ELEVATION(S) DRAWING NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

GENE BOLANTE ARCHITECT

222 COMMERCIAL ST. NE
SALEM, OR 97301-3410
P: 503.390.6500
F: 503.390.6501

8441

REGISTERED ARCHITECT

GENE C BOLANTE
STATE OF WASHINGTON

IN THE EVENT CONFLICTS ARE
DISCOVERED BETWEEN THE ORIGINAL
SIGNED AND SEALED DOCUMENTS
PREPARED BY THE ARCHITECTS AND/OR
OTHER CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL,
FAX, ELECTRONICALLY OR OTHERWISE,
THE ORIGINAL SIGNED AND SEALED
DOCUMENTS SHALL GOVERN.

sum

DESIGN STUDIO

2505 so 11th Ave, ste 208
portland, oregon 97202
sumdesignstudio.com
503 715 5847 ph fax

PERMIT SET

INSITU - IHOP ILC

118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10005

PLOT DATE: 09.16.10

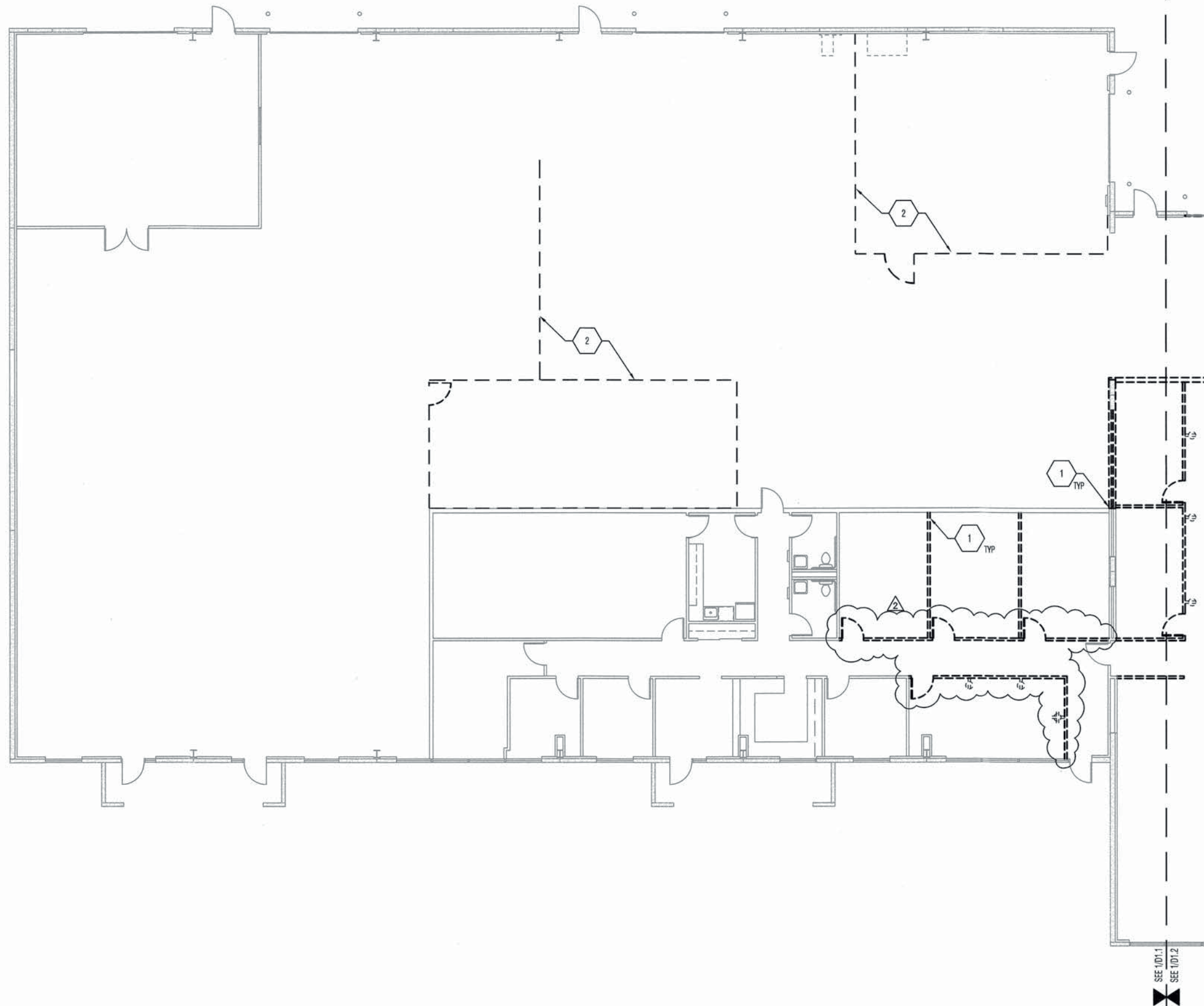
DRAWN: EHA

APPROVED: ESK

REVISIONS:

GENERAL NOTES

A0.2



1 DEMO PLAN - WEST
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

SALVAGE NOTES

1. SEE GENERAL NOTES ON A0.2.
2. NOT USED
3. PATCH/REPAIR EXISTING CONSTRUCTION IN AREAS OF DEMOLITION AND NEW WORK AS REQUIRED. FINISH TO MATCH EXISTING ADJACENT, UNLESS NOTED OTHERWISE.
4. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL, REGIONAL, AND STATE REGULATIONS.
5. CONTRACTOR TO VERIFY UTILITY LOCATION PRIOR TO START OF WORK. DO NOT DISRUPT EXISTING UTILITIES TO REMAIN. IN THE EVENT EXISTING UTILITIES ARE DISRUPTED OR DAMAGED, THE CONTRACTOR WILL REPAIR/REPLACE THOSE UTILITIES AT CONTRACTOR'S EXPENSE.
6. CONTRACTOR TO PROVIDE SHORING, BRACING, SUPPORTS, AND PROTECTION AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF THE PROJECT AND PROTECT EXISTING WORK FROM DAMAGE IN THE EVENT EXISTING WORK IS DISRUPTED OR DAMAGED, THE CONTRACTOR WILL REPAIR/REPLACE SUCH WORK AT THE CONTRACTOR'S EXPENSE.
7. REMOVE ALL EXISTING WALLCOVERING AND SKIM COAT WALL IN TENANT AREA ONLY.

DEMO SHEET NOTES

- 1 PATCH/REPAIR EXISTING CONSTRUCTION IN AREAS OF DEMOLITION AND NEW WORK AS REQUIRED. FINISH TO MATCH EXISTING ADJACENT, UNLESS NOTED OTHERWISE.
- 2 SAVE FENCING FOR REUSE, CONSULT WITH TENANT FOR STORAGE LOCATION.

DEMO SHEET KEY

- EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
- EXISTING WALL TO BE REMOVED
- EXISTING BUILDING CORE
- EXISTING WALL TO REMAIN
- DEMO/SALVAGE AREA
- S SALVAGE ITEM
- DEMO/SALVAGE DOOR

GENE BOLANTE ARCHITECT
222 COMMERCIAL ST. NE
SALEM, OR 97301-3410
P: 503.390.6500
F: 503.390.6501

REGISTERED ARCHITECT
GENE C. BOLANTE
STATE OF WASHINGTON

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

sum
DESIGN STUDIO

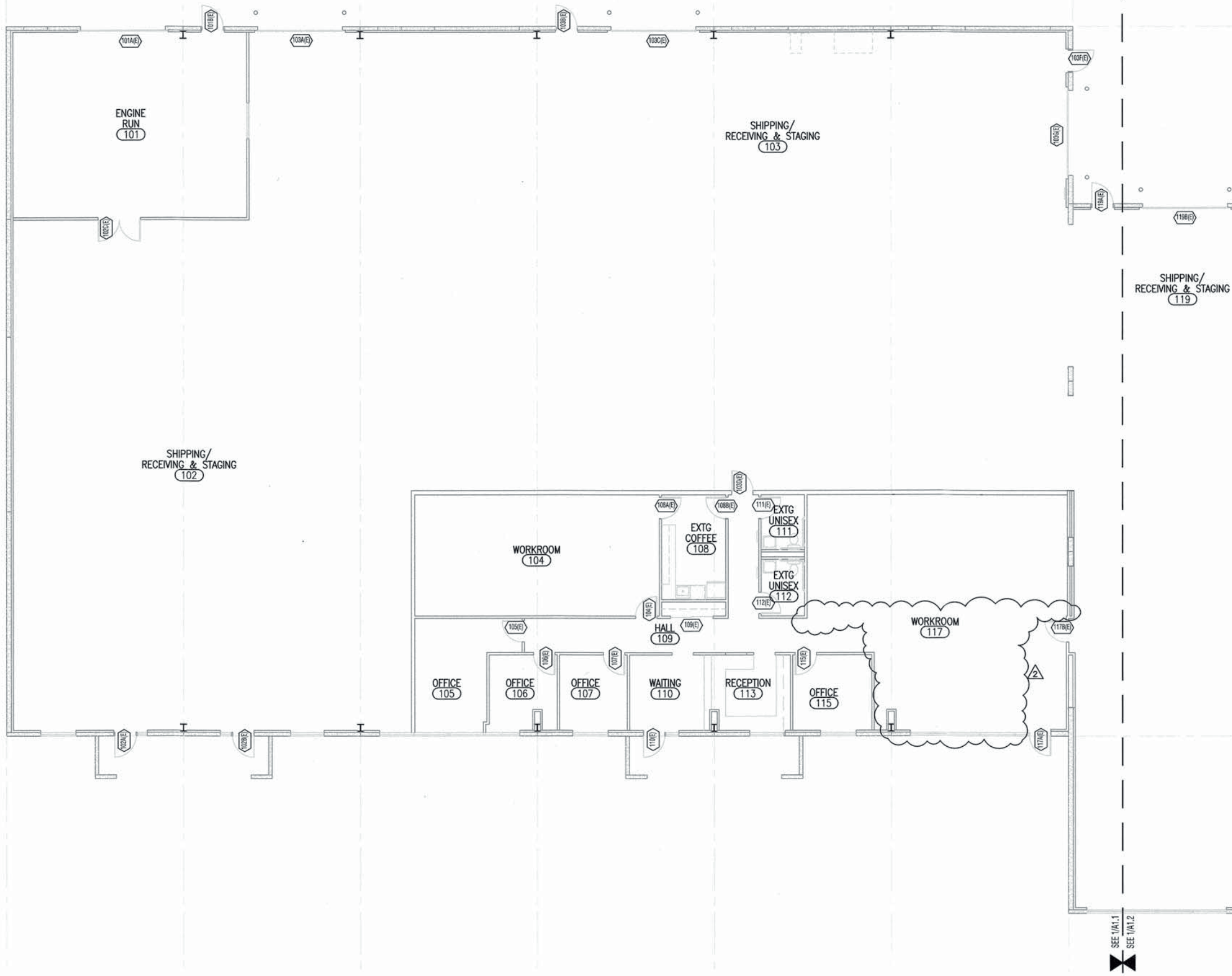
2505 so 11th Ave, ste 288
portland, oregon 97202
sumdesignstudio.com
503 715 5847 ph fax

CONSTRUCTION SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 10.20.10
DRAWN: EHA
APPROVED: ESH
REVISIONS:
2 AST-002_02.28.11

DEMO
PLAN-
WEST
D1.1



1 FLOOR PLAN - WEST
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

FLOOR PLAN NOTES

1 NOT USED

WALL LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION, SEE DEMO PLAN
- EXISTING BUILDING CORE
- EXISTING WALL TO REMAIN
- NEW WALL TO THE UNDERSIDE OF CEILING TILE, U.N.O. SEE 4&5 FOR TYP.
- XXX EXISTING DOOR/DOOR SYMBOL
- XXX NEW DOOR/DOOR SYMBOL

GENE BOLANTE ARCHITECTS
222 COMMERCIAL ST. NE
SALEM, OR 97301-3410
P: 503.390.6500
F: 503.390.6501

6441 REGISTERED ARCHITECT
GENE C. BOLANTE
STATE OF WASHINGTON

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR OTHER CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

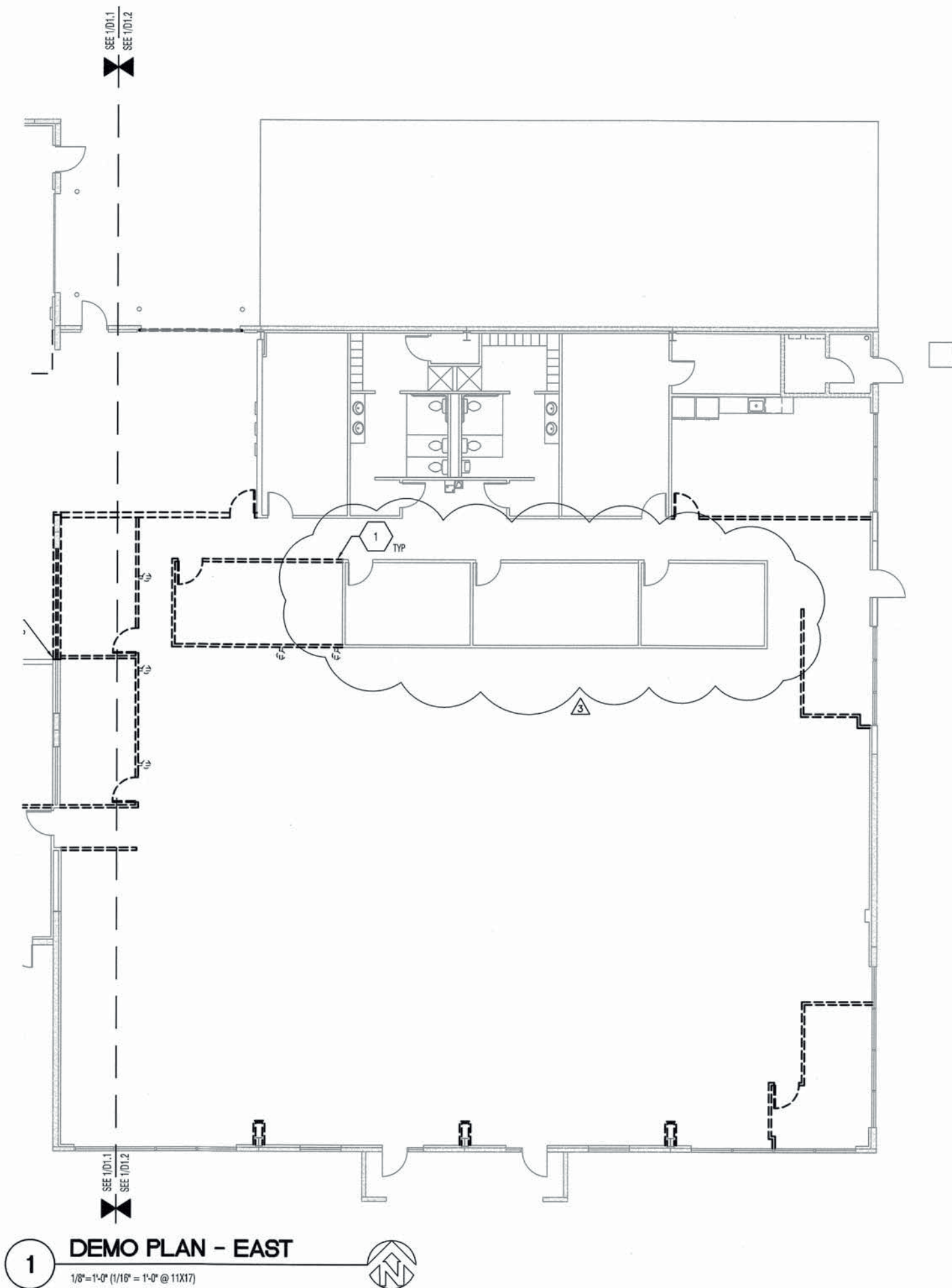
sum
DESIGN STUDIO
2505 so 11th Ave, ste 288
portland, oregon 97202
sumdesignstudio.com
503 715 5847 ph fax

CONSTRUCTION SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER:	10005
PLOT DATE:	10.20.10
DRAWN:	EHA
APPROVED:	ESH
REVISIONS:	
2	AST-002_02.28.11

FLOOR PLAN - WEST
A1.1



SALVAGE NOTES

1. SEE GENERAL NOTES ON A0.2.
2. NOT USED
3. PATCH/REPAIR EXISTING CONSTRUCTION IN AREAS OF DEMOLITION AND NEW WORK AS REQUIRED. FINISH TO MATCH EXISTING ADJACENT, UNLESS NOTED OTHERWISE.
4. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL, REGIONAL, AND STATE REGULATIONS.
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7. REMOVE ALL EXISTING WALLCOVERING AND SKIM COAT WALL IN TENANT AREA ONLY.

DEMO SHEET NOTES

- 1 PATCH/REPAIR EXISTING CONSTRUCTION IN AREAS OF DEMOLITION AND NEW WORK AS REQUIRED. FINISH TO MATCH EXISTING ADJACENT, UNLESS NOTED OTHERWISE.

DEMO SHEET KEY

- EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
- - - EXISTING WALL TO BE REMOVED
- EXISTING BUILDING CORE
- EXISTING WALL TO REMAIN
- DEMO/SALVAGE AREA
- S SALVAGE ITEM
- DEMO/SALVAGE DOOR

GENE BOLANTE ARCHITECT

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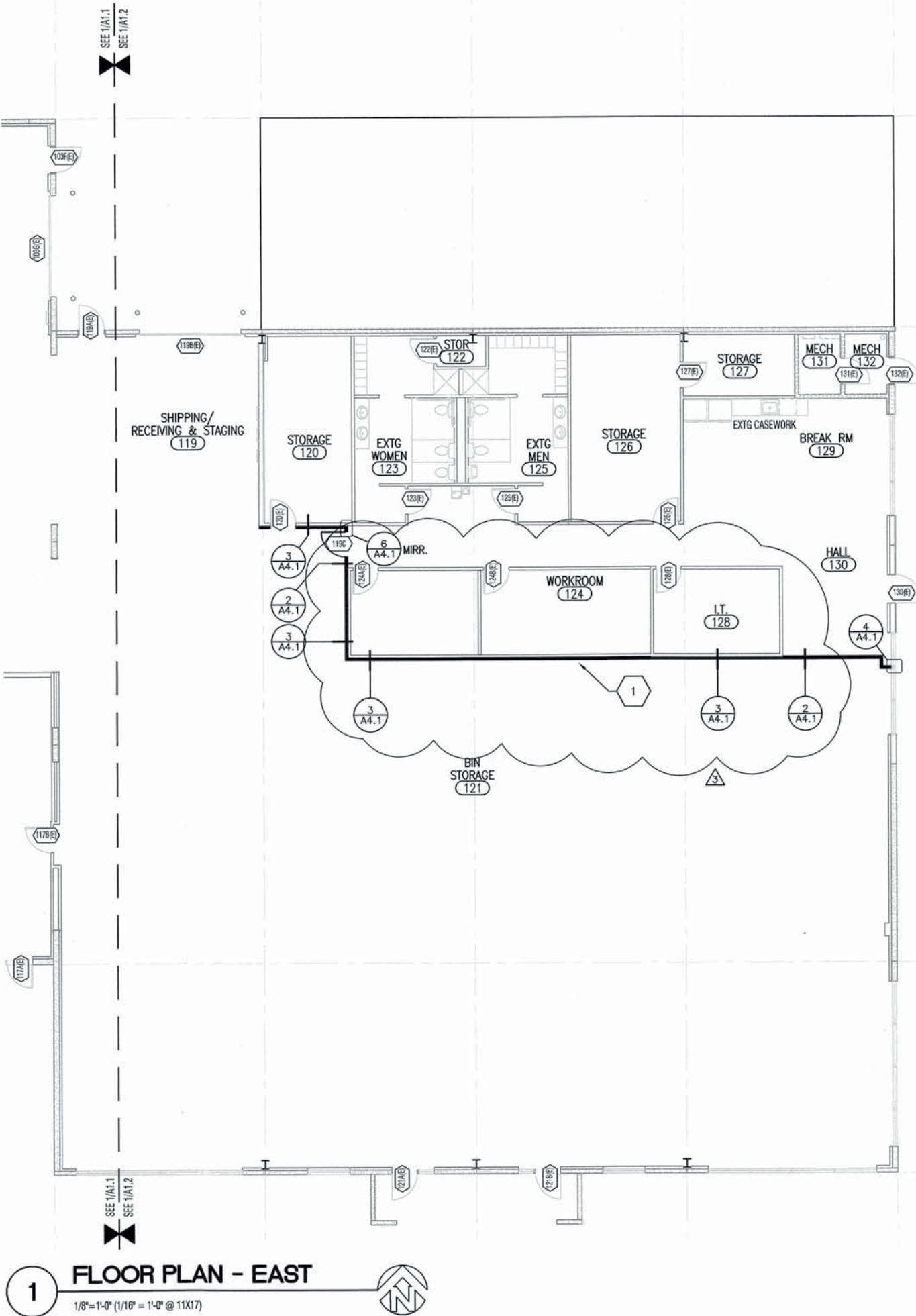
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portland, oregon 97202
sumdesignstudio.com
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CONSTRUCTION SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 10.20.10
DRAWN: EHA
APPROVED: ESH
REVISIONS:
081811

DEMO PLAN - EAST
D1.2



1 FLOOR PLAN - EAST
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

FLOOR PLAN NOTES

1 NEW FULL HT. WALL TO STRUCTURE

WALL LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION, SEE DEMO PLAN
- EXISTING BUILDING CORE
- EXISTING WALL TO REMAIN
- NEW WALL TO THE UNDERSIDE OF CEILING TILE, U.N.O. SEE 4&5 FOR TYP.
- EXISTING DOOR/DOOR SYMBOL.
- NEW DOOR/DOOR SYMBOL.

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REGISTERED ARCHITECT
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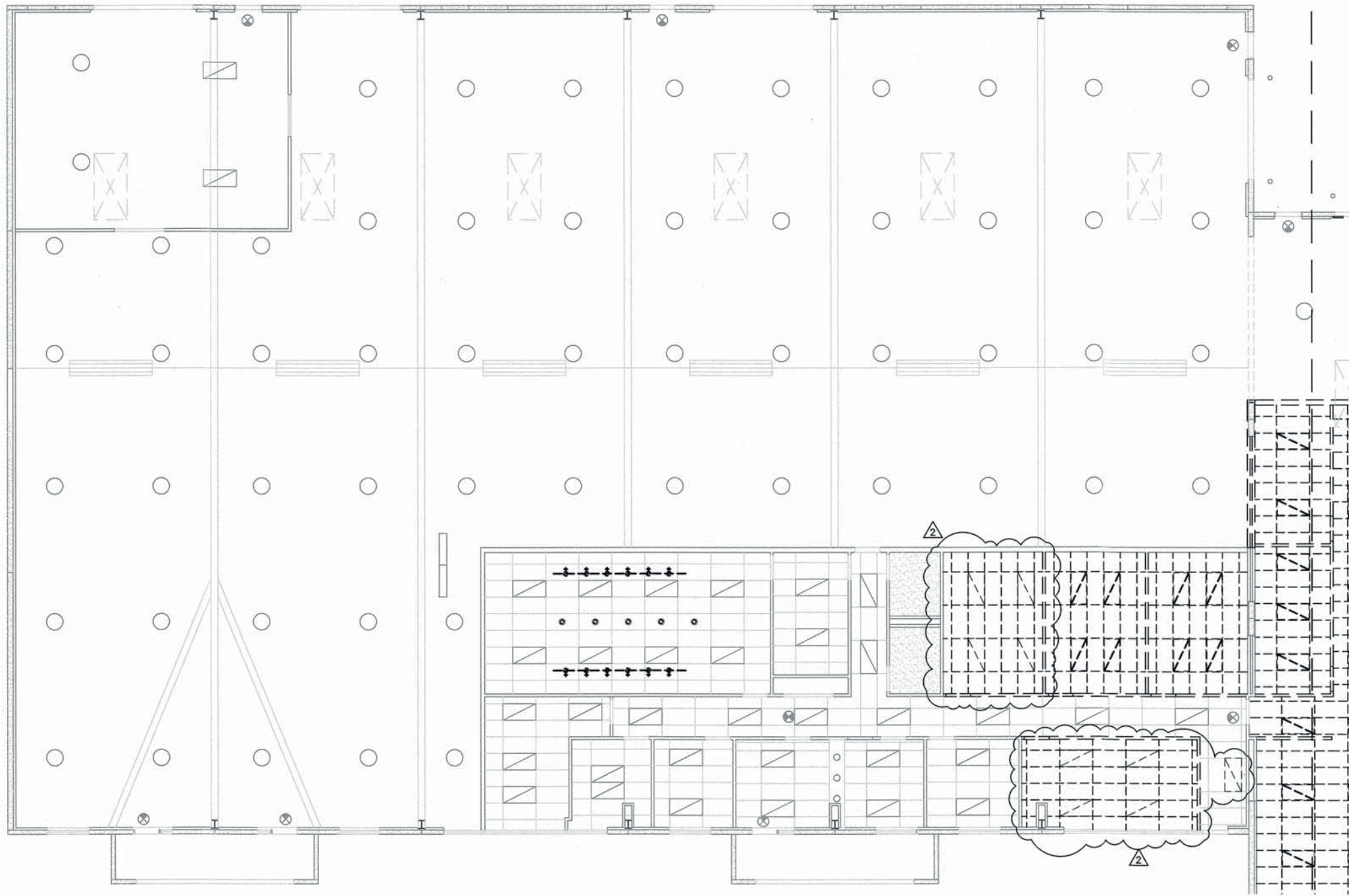
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CONSTRUCTION SET
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118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU
PROJECT NUMBER: 1000
PLOT DATE: 10.20.1
DRAWN: EH
APPROVED: ES
REVISIONS:
08181

FLOOR PLAN - EAST
A1.2



1 CEILING DEMO PLAN - WEST
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

CEILING PLAN NOTES

1. ALL NEW OFFICES, LABS, AND CONFERENCE ROOMS TO RECEIVE NEW GRID AND ARMSTRONG SECOND LOOK TILES.

CEILING LEGEND

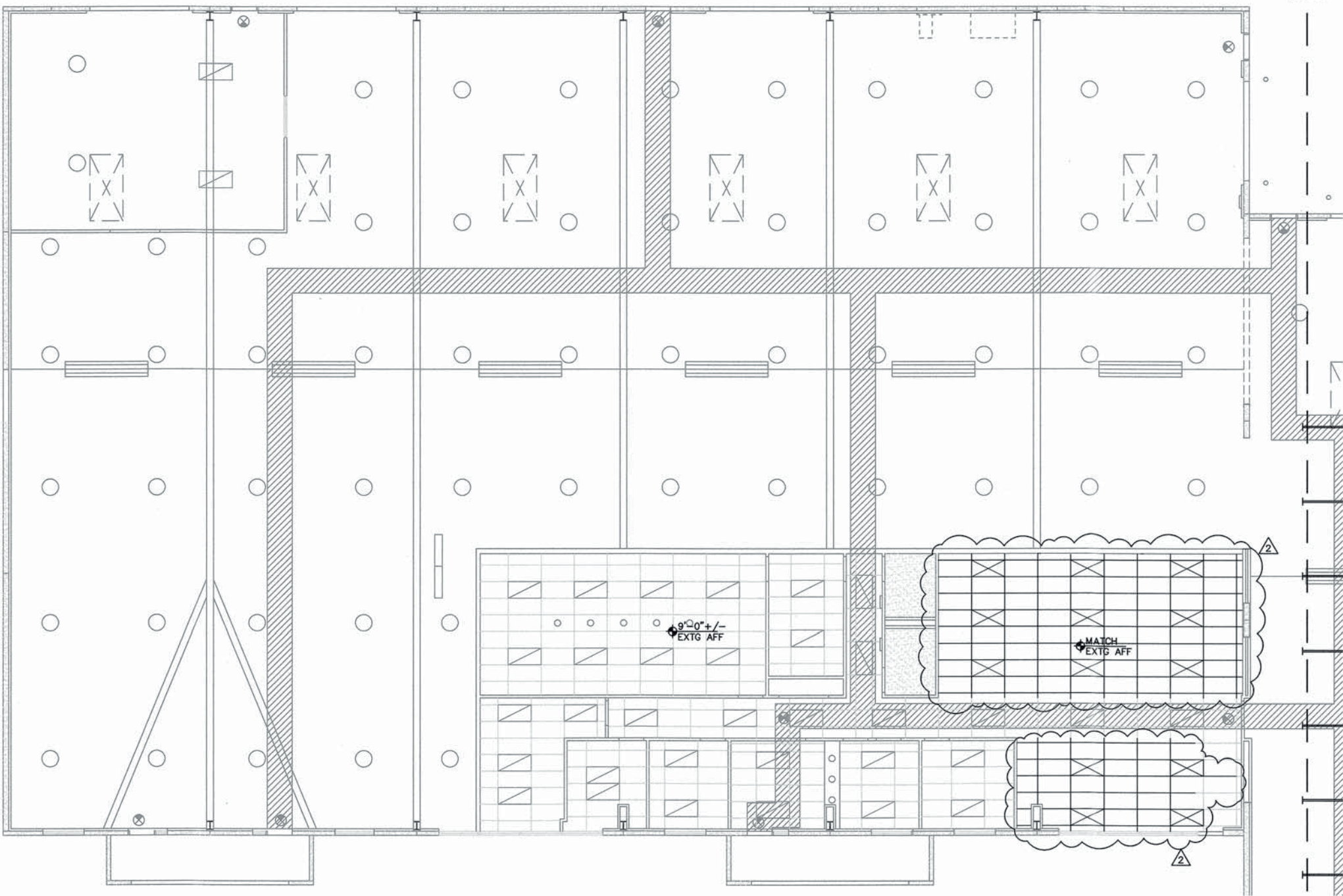
	EXISTING 2X4 CEILING GRID		DEMO CEILING GRID
	EXISTING HARD CEILING (PLASTER OR GYPSUM BOARD).		DEMO CEILING GRID FIXTURE, SEE MEP.
	EXISTING 2X4 FLUORESCENT FIXTURE, SEE MEP.		EXISTING HIGHBAY LIGHT TO REMAIN, SEE MEP.
	EXISTING RECESSED DOWNLIGHT, SEE MEP.		NEW CEILING GRID - ARMSTRONG SECOND LOOK.
	EXISTING EXIT SIGNS.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	EXISTING WALL MOUNT FLUORESCENT, SEE MEP.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID WITH EMERGENCY BATTERY BACKUP. DAY BRITE LIGHTING ARIOSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	EXISTING OVERHEAD VENT		NEW 2X2 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSO 2X2 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	DEMO EXISTING TRACK LIGHT, SEE MEP.		
	EXISTING SKYLIGHT		

	NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE. SEE MEP. SEE MEP.
	NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE WITH BATTERY BACKUP. SEE MEP.
	NEW SUSPENDED FLUORESCENT, TO BE DETERMINED. MOUNT 18" ON CENTER FROM WALL.
	NEW EXIT SIGNS.
	EMERGENCY EGRESS PATH

NOTE: REFER MEP FOR LIGHTING LOCATION & GENERAL INFO

WALL LEGEND

	EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
	EXISTING WALL TO BE REMOVED
	EXISTING BUILDING CORE
	EXISTING WALL TO REMAIN
	NEW LOW WALL
	NEW WALL TO THE UNDERSIDE OF CEILING TILE U.N.O.



1 CEILING PLAN - WEST
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

CEILING PLAN NOTES

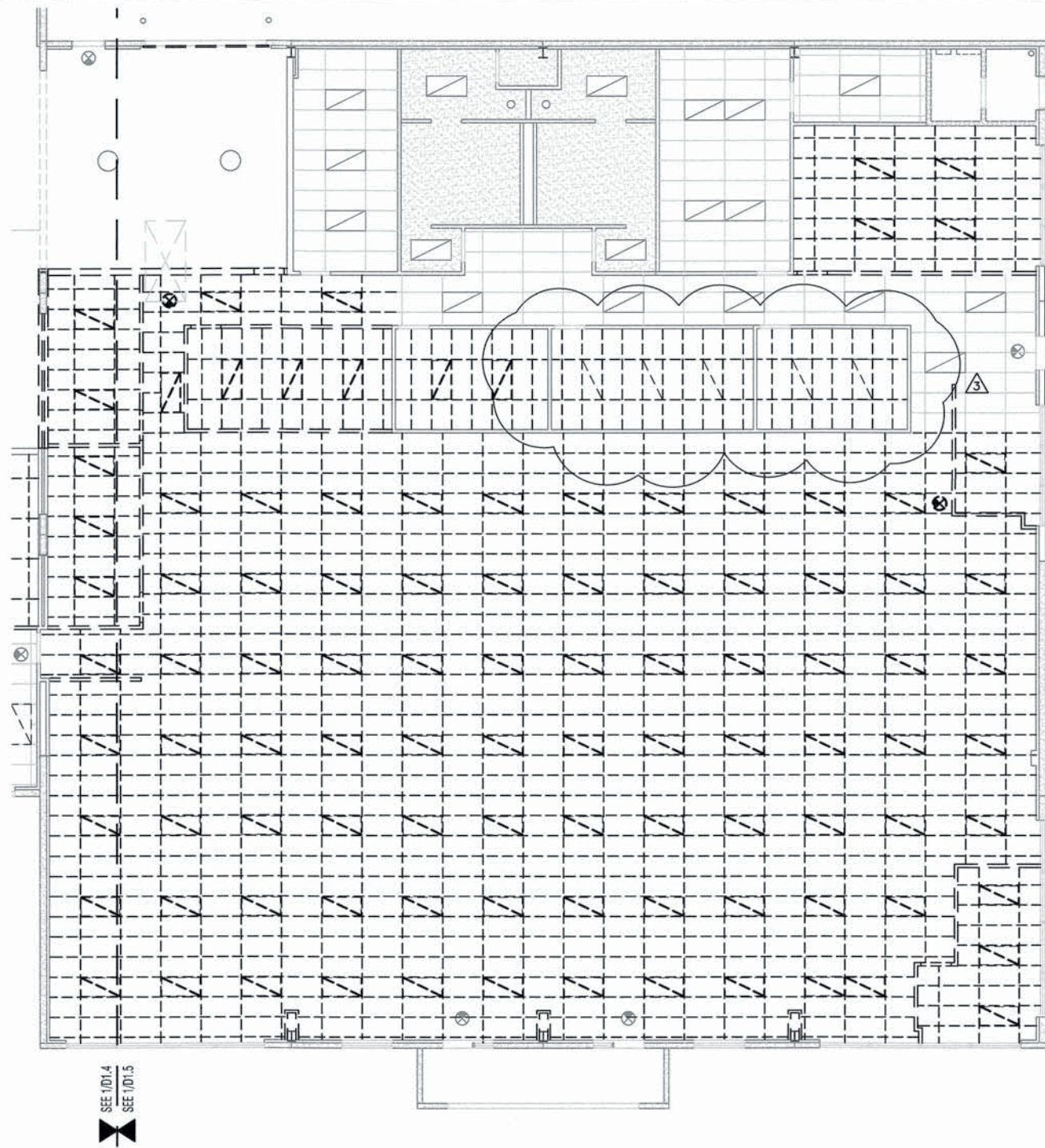
1. ALL NEW OFFICES, LABS, AND CONFERENCE ROOMS TO RECEIVE NEW GRID AND ARMSTRONG SECOND LOOK TILES.

CEILING LEGEND

	EXISTING 2X4 CEILING GRID		DEMO CEILING GRID		NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE. SEE MEP. SEE MEP.
	EXISTING HARD CEILING (PLASTER OR GYPSUM BOARD).		DEMO CEILING GRID FIXTURE. SEE MEP.		NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE WITH BATTERY BACKUP. SEE MEP.
	EXISTING 2X4 FLUORESCENT FIXTURE. SEE MEP.		EXISTING HIGHBAY LIGHT TO REMAIN. SEE MEP.		NEW SUSPENDED FLUORESCENT, TO BE DETERMINED. MOUNT 18" ON CENTER FROM WALL.
	EXISTING RECESSED DOWNLIGHT. SEE MEP.		NEW CEILING GRID - ARMSTRONG SECOND LOOK.		NEW EXIT SIGNS.
	EXISTING EXIT SIGNS.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.		EMERGENCY EGRESS PATH
	EXISTING WALL MOUNT FLUORESCENT. SEE MEP.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID WITH EMERGENCY BATTERY BACKUP. DAY BRITE LIGHTING ARIOSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.	NOTE: REFER MEP FOR LIGHTING LOCATION & GENERAL INFO	
	EXISTING OVERHEAD VENT		NEW 2X2 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSO 2X2 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.		
	DEMO EXISTING TRACK LIGHT. SEE MEP.				
	EXISTING SKYLIGHT				

WALL LEGEND

	EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
	EXISTING WALL TO BE REMOVED
	EXISTING BUILDING CORE
	EXISTING WALL TO REMAIN
	NEW LOW WALL
	NEW WALL TO THE UNDERSIDE OF CEILING TILE U.N.O.



CEILING DEMO PLAN - EAST

1/8"=1'-0" (1/16"=1'-0" @ 11X17)

CEILING PLAN NOTES

1. ALL NEW OFFICES, LABS, AND CONFERENCE ROOMS TO RECEIVE NEW GRID AND ARMSTRONG SECOND LOOK TILES.

CEILING LEGEND

	EXISTING 2X4 CEILING GRID		DEMO CEILING GRID
	EXISTING HARD CEILING (PLASTER OR GYPSUM BOARD).		DEMO CEILING GRID FIXTURE, SEE MEP.
	EXISTING 2X4 FLUORESCENT FIXTURE, SEE MEP.		EXISTING HIGHBAY LIGHT TO REMAIN, SEE MEP.
	EXISTING RECESSED DOWNLIGHT, SEE MEP.		NEW CEILING GRID - ARMSTRONG SECOND LOOK.
	EXISTING EXIT SIGNS.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	EXISTING WALL MOUNT FLUORESCENT, SEE MEP.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID WITH EMERGENCY BATTERY BACKUP. DAY BRITE LIGHTING ARIOSSO 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	EXISTING OVERHEAD VENT		NEW 2X2 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOSSO 2X2 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.
	DEMO EXISTING TRACK LIGHT, SEE MEP.		
	EXISTING SKYLIGHT		

	NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE. SEE MEP. SEE MEP.
	NEW HIGHBAY SUSPENDED FLUORESCENT FIXTURE WITH BATTERY BACKUP. SEE MEP.
	NEW SUSPENDED FLUORESCENT, TO BE DETERMINED. MOUNT 18" ON CENTER FROM WALL.
	NEW EXIT SIGNS.
	EMERGENCY EGRESS PATH

NOTE: REFER MEP FOR LIGHTING LOCATION & GENERAL INFO

WALL LEGEND

	EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
	EXISTING WALL TO BE REMOVED
	EXISTING BUILDING CORE
	EXISTING WALL TO REMAIN
	NEW LOW WALL
	NEW WALL TO THE UNDERSIDE OF CEILING TILE U.N.O.

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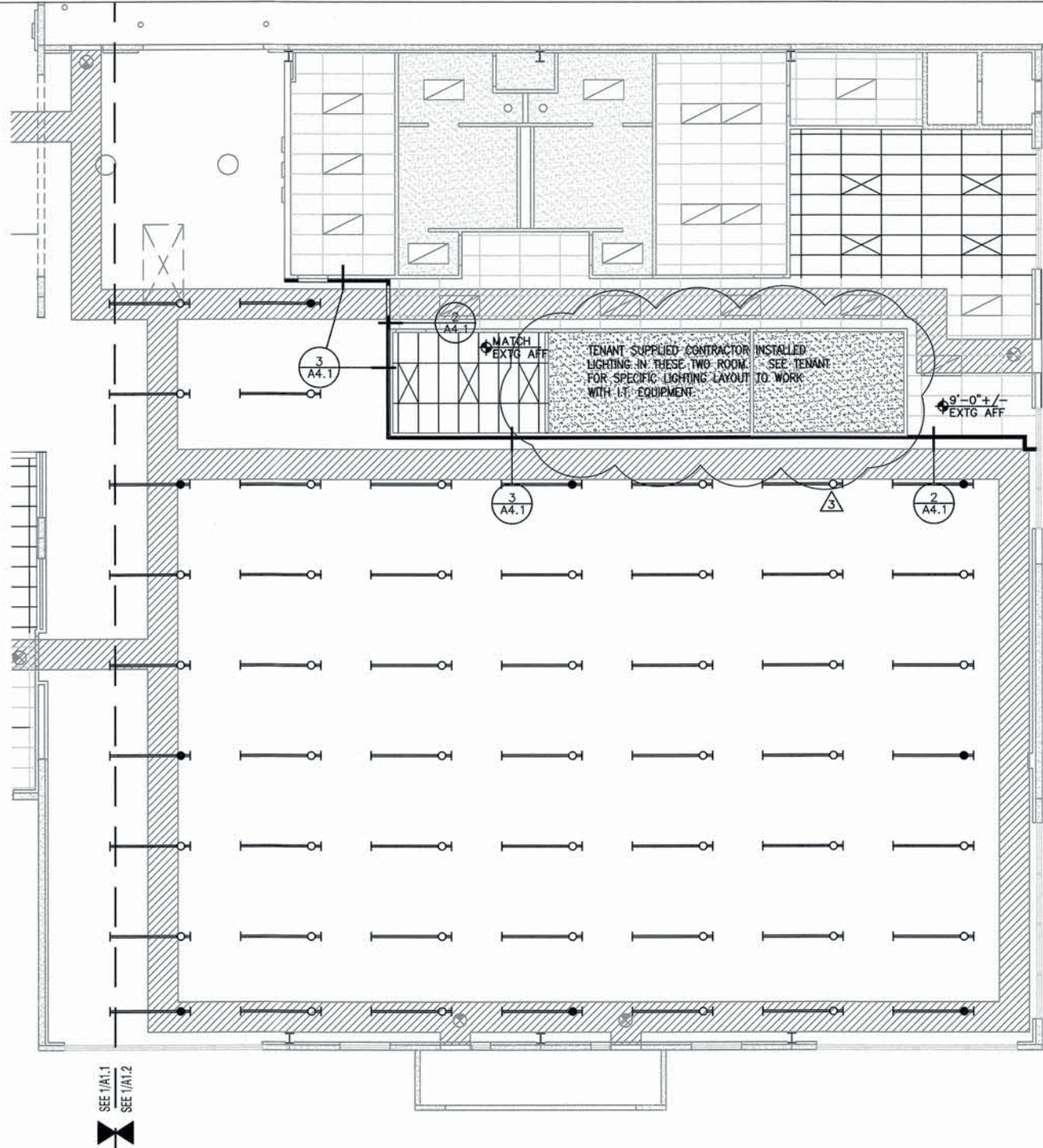
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CONSTRUCTION SET
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118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 10.20.10
DRAWN: EHA
APPROVED: ESH
REVISIONS:
081811

CEILING DEMO PLAN-EAST
D1.5



1 **CEILING PLAN - EAST**
1/8"=1'-0" (1/16"=1'-0" @ 11X17)

CEILING PLAN NOTES

1. ALL NEW OFFICES, LABS, AND CONFERENCE ROOMS TO RECEIVE NEW GRID AND ARMSTRONG SECOND LOOK TILES.

CEILING LEGEND

	EXISTING 2X4 CEILING GRID		DEMO CEILING GRID		NEW Highbay SUSPENDED FLUORESCENT FIXTURE. SEE MEP. SEE MEP.
	EXISTING HARD CEILING (PLASTER OR GYPSUM BOARD).		DEMO CEILING GRID FIXTURE, SEE MEP.		NEW Highbay SUSPENDED FLUORESCENT FIXTURE WITH BATTERY BACKUP. SEE MEP.
	EXISTING 2X4 FLUORESCENT FIXTURE, SEE MEP.		EXISTING Highbay LIGHT TO REMAIN, SEE MEP.		NEW SUSPENDED FLUORESCENT, TO BE DETERMINED. MOUNT 18" ON CENTER FROM WALL.
	EXISTING RECESSED DOWNLIGHT, SEE MEP.		NEW CEILING GRID - ARMSTRONG SECOND LOOK.		NEW EXIT SIGNS.
	EXISTING EXIT SIGNS.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOS0 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.		EMERGENCY EGRESS PATH
	EXISTING WALL MOUNT FLUORESCENT, SEE MEP.		NEW 2X4 FLUORESCENT FIXTURE IN CEILING GRID WITH EMERGENCY BATTERY BACKUP. DAY BRITE LIGHTING ARIOS0 2X4 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.	NOTE: REFER MEP FOR LIGHTING LOCATION & GENERAL INFO	
	EXISTING OVERHEAD VENT		NEW 2X2 FLUORESCENT FIXTURE IN CEILING GRID. DAY BRITE LIGHTING ARIOS0 2X2 SUSPENDED CEILING FIXTURE WITH 2-T8. SEE MEP.		
	DEMO EXISTING TRACK LIGHT, SEE MEP.				
	EXISTING SKYLIGHT				

WALL LEGEND

	EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR ADJACENT AREA EFFECTED BY DEMOLITION
	EXISTING WALL TO BE REMOVED
	EXISTING BUILDING CORE
	EXISTING WALL TO REMAIN
	NEW LOW WALL
	NEW WALL TO THE UNDERSIDE OF CEILING TILE U.N.O.



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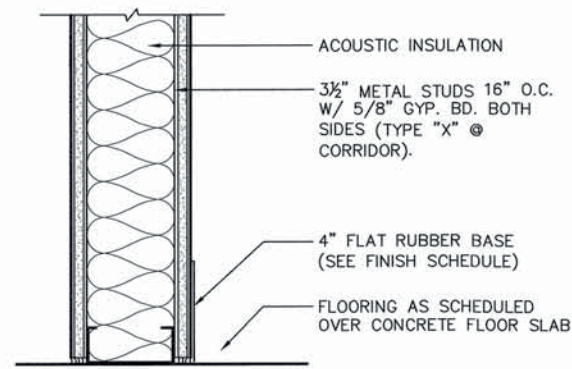
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CONSTRUCTION SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

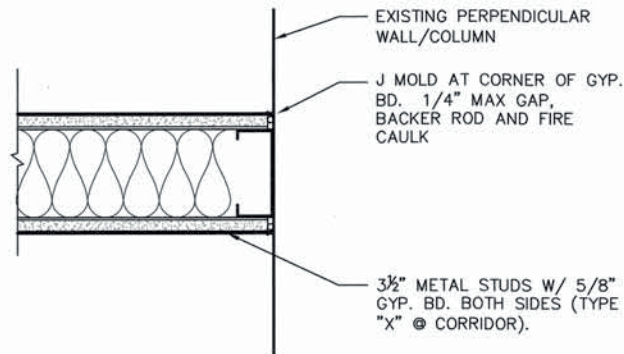
PROJECT NUMBER: 1000
PLOT DATE: 10.20.1
DRAWN: EH
APPROVED: ES
REVISIONS:
3 08181

CEILING
PLAN -
EAST
A1.5



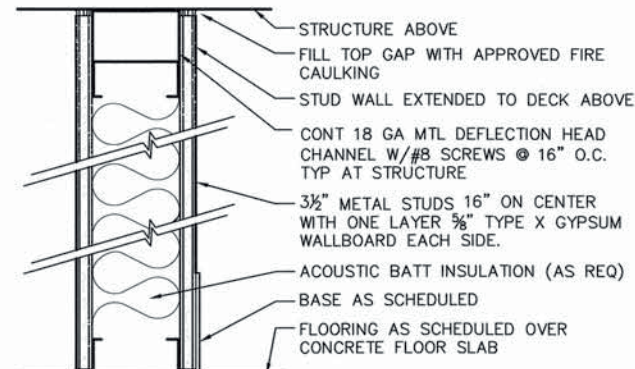
1 TYP. INTERIOR WALL

SCALE: 3" = 1'-0"



5 WALL AT EXTG STRUCTURE

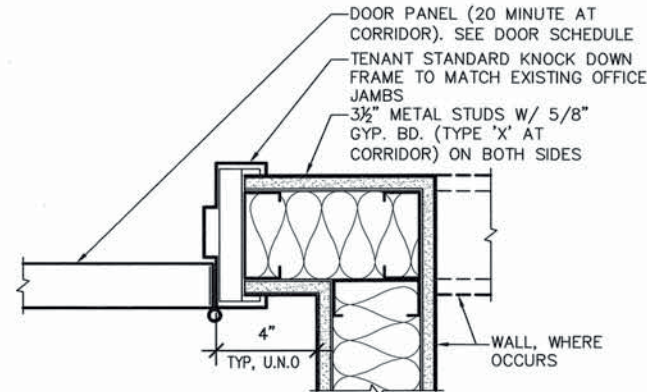
SCALE: 3" = 1'-0"



2 DEMISING WALL - 1HR

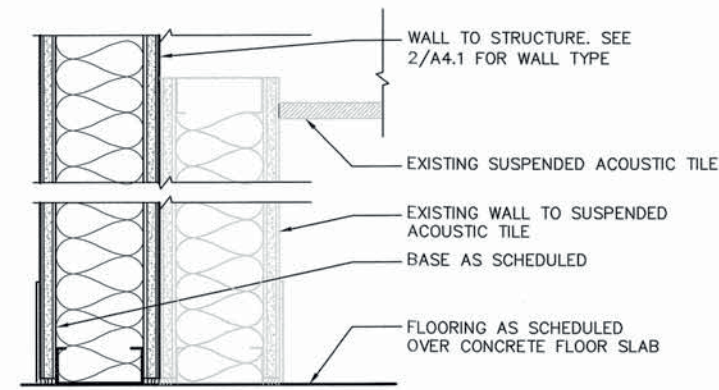
SCALE: 3" = 1'-0"

GA FILE # WP1072



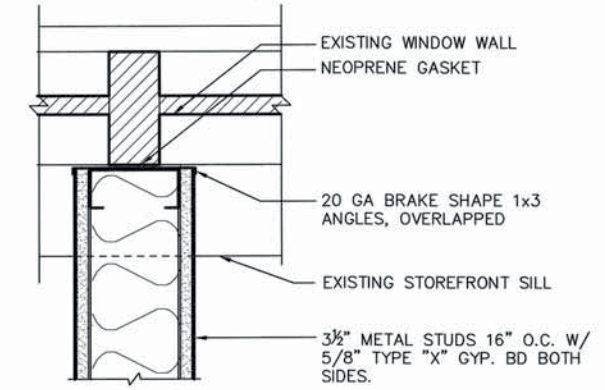
6 TYP. INT. DOOR JAMB

SCALE: 3" = 1'-0"



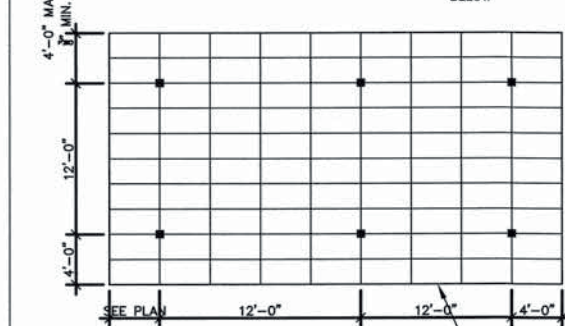
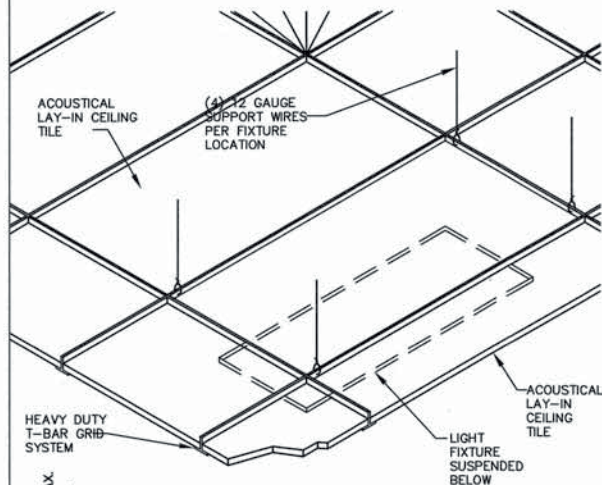
3 NEW FULL HT. • EXTG WALL

SCALE: 3" = 1'-0"



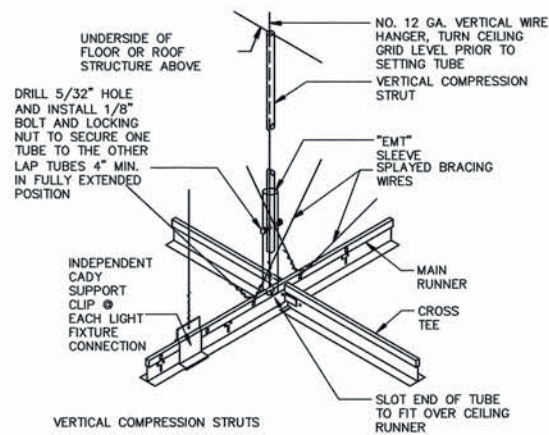
4 WALL • EXTG MULLION

SCALE: 3" = 1'-0"



NOTES:

1. CEILING TO BE TIED TO TWO ADJACENT WALLS CEILING TO BE INDEPENDENT OF TWO OTHER WALLS
2. SUSPENDED CEILING SUPPORT AND SPLAY WIRES TO BE WITHIN 4'-0" OF PERIMETER WALLS AND 12'-0" O.C., E.W.

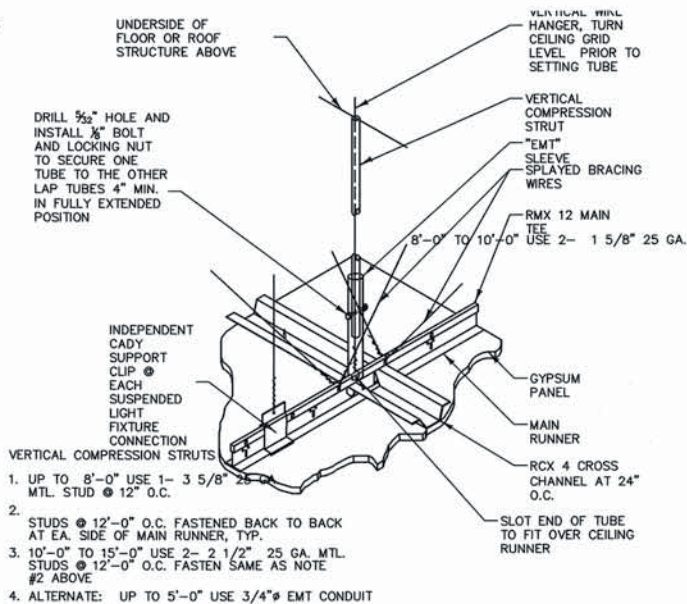


VERTICAL COMPRESSION STRUTS

1. UP TO 8'-0" USE 1- 3 5/8" 25 GA. MTL. STUD @ 12" O.C.
2. 8'-0" TO 10'-0" USE 2- 1 5/8" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTENED BACK TO BACK AT EA. SIDE OF MAIN RUNNER, TYP.
3. 10'-0" TO 15'-0" USE 2- 2 1/2" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTEN SAME AS NOTE #2 ABOVE
4. ALTERNATE: UP TO 5'-0" USE 3/4" EMT CONDUIT

NOTES:

- 1 THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2.0 IN. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE
- 2 FOR CEILING AREAS EXCEEDING 1000 FT², HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. THE TRIBUTARY AREAS OF THE HORIZONTAL RESTRAINTS SHALL BE APPROXIMATELY EQUAL. EXCEPTION: RIGID BRACES ARE PERMITTED TO BE USED INSTEAD OF DIAGONAL SPLAY WIRES, BRACES AND ATTACHMENTS TO THE STRUCTURAL SYSTEM ABOVE SHALL BE ADEQUATE TO LIMIT RELATIVE LATERAL DEFLECTIONS AT POINT OF ATTACHMENT OF CEILING GRID TO LESS THAN 1/4" FOR THE LOADS PRESCRIBED IN SECTION 9.6.1.3 OF ASCE 7.



VERTICAL COMPRESSION STRUTS

1. UP TO 8'-0" USE 1- 3 5/8" 25 GA. MTL. STUD @ 12" O.C.
2. STUDS @ 12'-0" O.C. FASTENED BACK TO BACK AT EA. SIDE OF MAIN RUNNER, TYP.
3. 10'-0" TO 15'-0" USE 2- 2 1/2" 25 GA. MTL. STUDS @ 12'-0" O.C. FASTEN SAME AS NOTE #2 ABOVE
4. ALTERNATE: UP TO 5'-0" USE 3/4" EMT CONDUIT

- 3 FOR CEILING AREAS EXCEEDING 2500 FT², A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2500 FT² SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES WHICH DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ADDITIONAL MOVEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES IN ACCORDANCE WITH ITEM 1 AND HORIZONTAL RESTRAINTS OR BRACING IN ACCORDANCE WITH ITEM 2.

- 4 EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEAD AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1" OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS ARE PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

- 5 CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.

- 6 CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.

- 7 SUSPENDED CEILING SHALL BE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF SECTION A.9.3.3.9 ASCE 7.

1 ACOUSTICAL LAY-IN CEILING TILE DETAILS

1/8"=1'-0" (1/16"=1'-0" @ 11X17)

DOOR SCHEDULE

OPENING NUMBER	DOOR TYPE	WIDTH	HEIGHT	FINISH	FRAME TYPE	FINISH	HARDWARE	REMARKS
101A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
101B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
102A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
102B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
102C(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
103A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	EXTG ROLL-UP DOOR
103B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
103C(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	EXTG ROLL-UP DOOR
103D(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
103F(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
103G(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	EXTG ROLL-UP DOOR
104(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
105(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
106(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
107(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
108A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
108B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
109(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
110(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
111(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
112(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
115(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
117A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
117B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
119A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
119B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	EXTG ROLL-UP DOOR
119C	WD	3'-0"	7'-0"	STN	KD	PT	PASSAGE	20 MIN RATING
120(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
121A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
121B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
122(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
123(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
124A(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
124B(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
125(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
126(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
127(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
128(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
130(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
131(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	
132(E)	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG	EXISTING	

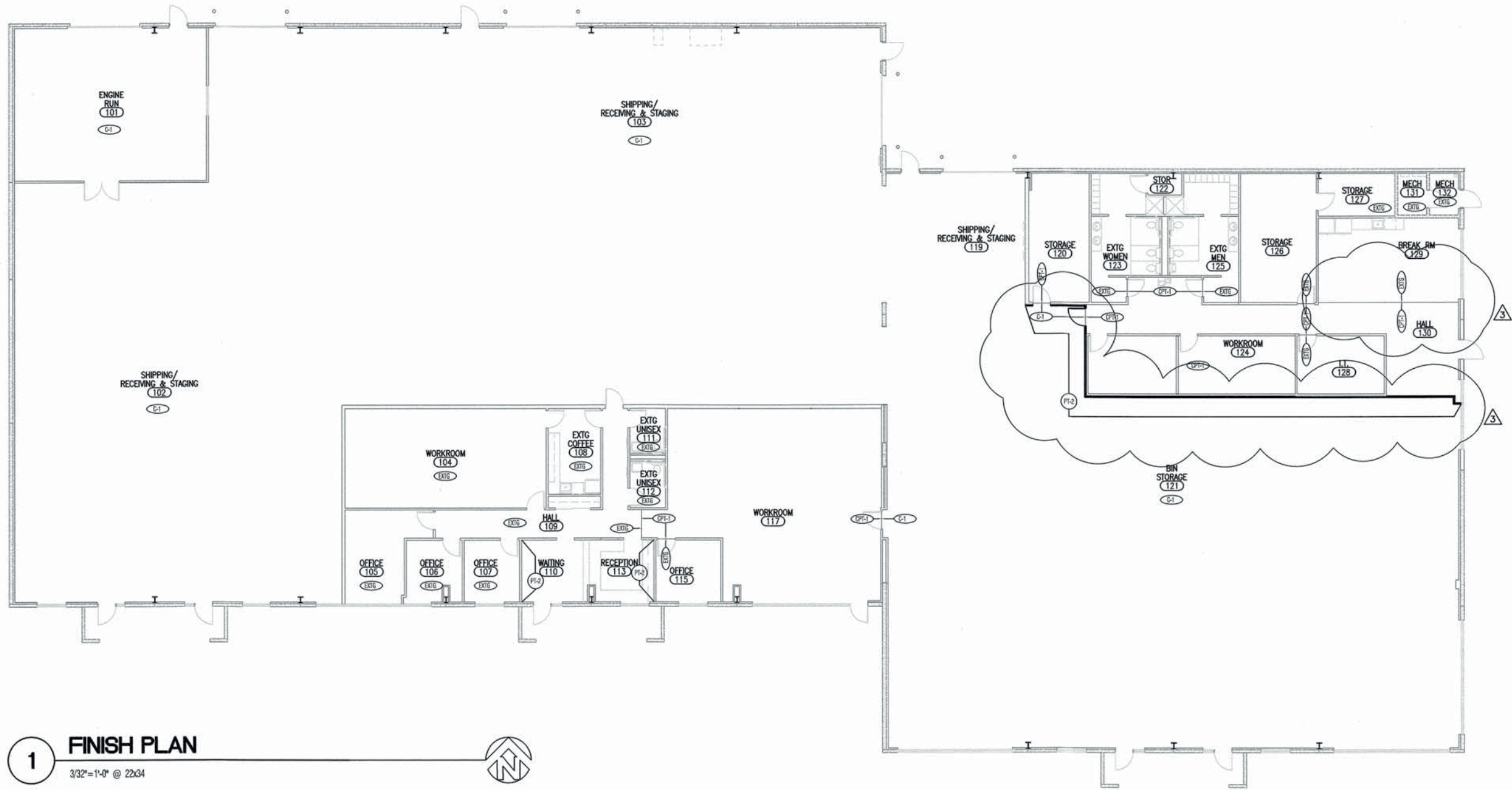
GENERAL NOTES

1. NOT USED

EXT-E	EXTG ENTRY DOOR	PT	PAINTED
EXT	EXTG DOOR	STN	FACTORY FINISH CLEAR
WD	SOLID CORE 13/4" THICK WOOD DOOR - BIRCH	KD	KNOCK DOWN
WD/GL	SOLID CORE 1 3/4" THICK WOOD WITH RELITE-BIRCH	FAC	FACTORY FINISH BROWN
STL	1 3/4" STEEL DOOR - FIRE RATED	BL	BUILDING STANDARD
G	NEW GARAGE DOOR	WLD	WELDED METAL FRAME
MEXT	MATCH EXISTING		

HARDWARE GROUPS

PASSAGE	PASSAGE LOCKSET	TENANT STANDARD	BRUSHED CHROME
	1 LEVER HANDLE * BUTT HINGES 1 STOP 1 SET OF SILENCERS		
	NOTE: Use wall stops wherever practical.		



1 **FINISH PLAN**
3/32"=1'-0" @ 22x34



SHEET NOTES

FINISH SCHEDULE

WALL LEGEND

WALLS

- PAINT TO MATCH EXISTING WHERE DAMAGE HAS OCCURED DUE TO CONSTRUCTION.

PT-1

GENERAL WALL COLOR THROUGHOUT
COLOR TO MATCH EXISTING
LATEX EGGSHELL

PT-2

COLOR TO MATCH DEVINE, OLIVE
LATEX EGGSHELL

FLOORS

- REPLACE CARPET WITH CPT-1 WHERE CARPET DAMAGE HAS OCCURED DUE TO DEMO.
- ALL NEW BASE TO MATCH EXISTING.

CPT-1

MANUFACTURE: PATCRAFT
STYLE: 10102-HOMEROOM-II 28
COLOR: 00539-SAT'S
BROADLOOM

C-1

EXISTING CONCRETE FLOOR

- EXISTING CONSTRUCTION TO BE REMOVED - PATCH/REPAIR
ADJACENT AREA EFFECTED BY DEMOLITION, SEE DEMO
PLAN
- EXISTING BUILDING CORE
- EXISTING WALL TO REMAIN
- NEW WALL TO THE UNDERSIDE OF CEILING TILE, U.N.O.
SEE FLOOR PLAN
- EXISTING DOOR/DOOR SYMBOL
- NEW DOOR/DOOR SYMBOL

DIAGRAMS	
SYMBOL	DESCRIPTION
	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
	BUS BAR
	BATTERY GENERAL
	CONTACTOR COIL
	RELAY COIL
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	NORMALLY OPEN PUSH BUTTON
	NORMALLY CLOSED PUSH BUTTON
	METER: POWER FACTOR
	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
	CURRENT TRANSFORMER SHORTING TERMINAL BLOCK
	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUCTOR INSTALLED.
	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G=GREEN, B=BLUE, Y=YELLOW, W=WHITE
	DELTA CONNECTION
	GROUNDING WYE CONNECTION
	CONNECTION TO GROUND
	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER
	CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT
	DRAWOUT CIRCUIT BREAKER
	GROUND FAULT TRIP UNIT
	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
	MONITORING COMMUNICATION MODULE
	INTEGRAL AMMETER DISPLAY
	FUSE, HOLDER & PULLER
	CONNECTION TO DIV. 23 CHILLER
	SOLENOID

SECURITY SYSTEM	
SYMBOL	DESCRIPTION
	CCTV SECURITY FIXED CAMERA - WALL, CEILING PROVIDE 3/4" CO STUBBED INTO NEAREST SECURE SIDE ACCESSIBLE CEILING. PROVIDED BY OWNER INSTALLED BY DIV 26 CONTRACTOR
	REQUEST TO EXIT DEVICE WALL, MULLION MOUNTED PROVIDED BY OWNER, INSTALLED BY DIV 26 CONTRACTOR
	INTERCOM STATION - WALL, DESK MOUNTED. M = MASTER STATION
	CARD READER - WALL MOUNTED/MULLION MOUNTED PROVIDE 3/4" CO STUBBED INTO NEAREST SECURE SIDE ACCESSIBLE CEILING. PROVIDED BY OWNER INSTALLED BY DIV 26 CONTRACTOR
	ELECTRIC LOCK/LATCH COORDINATE REQUIREMENTS WITH DOOR HARDWARE CONTRACTOR
	ELECTRIC STRIKE COORDINATE REQUIREMENTS WITH DOOR HARDWARE CONTRACTOR
	MAGNETIC LOCK COORDINATE REQUIREMENTS WITH DOOR HARDWARE CONTRACTOR
	ELECTRIC POWER TRANSFER HINGE COORDINATE REQUIREMENTS WITH DOOR HARDWARE CONTRACTOR

DISTRIBUTION & EQUIPMENT	
SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED. SOLID= 120/280V, HATCHED= 277/480V, DASHED EQUIP. = FUTURE
	MOTOR CONTROL CENTER W/ CODE CLEARANCES SHOWN, DASHED EQUIP. = FUTURE
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CLEARANCES SHOWN
	CONNECTION TO MOTOR PROVIDED BY OTHERS
	CONNECTION TO DIV. 23 FURNISHED VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT DIV. 26 TO INSTALL VFD EQUIPMENT
	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	DIV. 26 CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	DIV. 26 CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT THAT IS PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
	BUILDING GROUND BUS, SEE DETAILS
	BUSWAY RISER
	BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED.

SWITCHING CONTROLS	
SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH (SUPERScript DENOTES SIMILARLY MARKED LUMINAIRES CONTROLLED TOGETHER)
	TWO POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	KEY OPERATED SWITCH
	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD.
	DIMMER SWITCH UNDER SEPARATE COVER PLATE
	TIMER SWITCH
	LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERScript INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES.
	WEATHERPROOF SWITCH
	MOTOR-RATED THERMAL OVERLOAD SWITCH
	PHOTOCELL
	EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY DIV. 26, UON.
	PUSHBUTTON OR PUSHBUTTONS, BY DIV. 26
	TIME CLOCK
	OCCUPANCY SENSOR - WALL MOUNTED
	360 DEGREE OCCUPANCY SENSOR - CEILING MTD.
	COMBINATION OCCUPANCY SENSOR & SWITCH GANGED UNDER A COMMON COVER PLATE. OCCUPANCY SENSOR TO CONTROL ALL LUMINAIRES IN ROOM WITH 1/2 LIGHT REDUCTION CONTROLLED BY SWITCH, DESIGNATED BY LETTER. 2-GANG BOX WITH SINGLE-GANG MUDRING, UON SPECIFIED
	EMERGENCY POWER OFF, HEAVY-DUTY, OIL-TIGHT RED MUSHROOM-HEAD PUSHBUTTON W/ GUARD.
	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED.
	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.

POWER DEVICES	
SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
	SPECIAL PURPOSE RECEPTACLE - WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED
	RECEPTACLE TYPE SHOWN - WALL - ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.
	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
	DUPLEX RECEPTACLE - WALL - HALF SWITCHED
	COMBINATION SWITCH/DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
	RECEPT. TYPE SHOWN W/ WEATHERPROOF COVER AND INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
	RECEPT. TYPE SHOWN AT SPECIAL HEIGHT
	WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 ISOLATED GROUND) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
	FLUSH FLOOR BOX DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	POKE THRU UNIT WITH DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELEPHONE OUTLET - FLUSH, PEDESTAL MOUNTED.
	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS. WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
	DOUBLE DUPLEX RECEPTACLE - CORD DROP
	POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPONENTS RC-700 SERIES.
	TELE/POWER POLE, POWER POLE
	TELE/POWER POLE WITH WHIP CONNECTION TO ELECTRIFIED FURNITURE
	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.

WIRING	
SYMBOL	DESCRIPTION
	WIRING CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING CONCEALED IN FLOOR OR UNDER GRADE. OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	EXISTING WIRING TO BE REMOVED
	TELEPHONE SYSTEM CONDUIT
	BARE GROUNDING GRID OR CONDUCTORS, UON.
	HOME RUN WIRING TO INDICATED DESTINATION, 3/4" C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
	BASKET TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	LADDER TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	PULL BOX, MIN. SIZE PER NEC., UON.
	FLEXIBLE CONDUIT CONNECTION

REFERENCE SYMBOLS	
SYMBOL	DESCRIPTION
	SHEET NOTE REFERENCE
	BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULES FOR WIRE AND CONDUIT SIZES & QTY.
	REFER TO DETAIL NO. ON DRAWING INDICATED. NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.
	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
	MECHANICAL EQUIPMENT IDENTIFICATION TAG
	EQUIPMENT BY OTHERS IDENTIFICATION TAG

LIGHTING	
SYMBOL	DESCRIPTION
	RECESSED LENSED LUMINAIRE (SIZE/SHAPE VARIES)
	RECESSED PARABOLIC LUMINAIRE (SIZE/SHAPE VARIES)
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LUMINAIRE (SIZE/SHAPE VARIES)
	POINT SOURCE - SURFACE, RECESSED CEILING MTD.
	WALLWASH - SURFACE, RECESSED CEILING MTD.
	RECESSED WALL POINT SOURCE
	WRAP-AROUND TYPE FLUORESCENT
	TRACK LIGHTING WITH HEADS AS INDICATED.
	ADJUSTABLE POINT SOURCE - SURFACE CEILING, RECESSED CEILING MOUNTED.
	WALL WASH - SURFACE, RECESSED CEILING MTD.
	WALL SCONCE
	WALL MOUNTED FLOOD, POSSIBLY AIMABLE
	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	"FOOT" INDICATES WALL MOUNTED LUMINAIRE
	FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION. LENGTH AS SHOWN.
	UNDERCABINET FLUORESCENT STRIPLIGHT
	LUMINAIRE MARKING CONVENTION LEGEND: PTA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE
	LUMINAIRE TYPE IDENTIFICATION WHICH APPLIES TO ALL OTHER IDENTICAL LUMINAIRE SYMBOLS, UON.

SIGNAL DEVICES	
SYMBOL	DESCRIPTION
	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED - SURFACE, RECESSED MOUNTED
	COMBO TELEPHONE/DATA OUTLET - WALL
	TELEPHONE OUTLET - WALL, W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HT. DETAIL
	DATA OUTLET - WALL
	SPEAKER - WALL, CEILING
	INTERCOM STATION - WALL, DESK M = MASTER STATION
	PUSHBUTTON OR PUSHBUTTONS
	RF COAX CABLE OUTLET (TV, VCR, ETC.)
	COMBINATION RF COAX CABLE AND DATA OUTLET
	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE

(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
(RL)	EXISTING TO BE RELOCATED
AB	ABOVE COUNTER BACKSPLASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
AL	ALUMINUM (ALLOY)
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BG	BELOW GRADE
BRKR	CIRCUIT BREAKER
C	CONDUIT (CIRCULAR RACEWAY)
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIV	DIVISION
DP	DISTRIBUTION PANEL
DWG	DRAWING
E, EMERG	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE DAMPER
FU	FUSE
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRAP	GENERATOR REMOTE ANNUNCIATOR PNL
GRC	GALVANIZED RIGID STEEL CONDUIT
HP	HORSEPOWER
HTR	HEATER
HZ	HERTZ (CYCLES PER SECOND)
IES	ILLUMINATING ENGINEERING SOCIETY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTC	LIGHTING
LCP	LIGHTING CONTROL PANEL
MCA	MINIMUM CIRCUIT AMPERES
MFR	MANUFACTURER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
-N-	NEUTRAL (GROUNDED CONDUCTOR)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
-NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MFG'S ASSOC.
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PUSHBUTTON
PH, P	PHASE
PNL	PANEL
PRI	PRIMARY
RNC	RIGID NON-METALLIC CONDUIT (PVC)
SEC	SECONDARY
SOL	SOLENOID
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TEL	TELEPHONE
TYP	TYPICAL
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTX	UTILITY TRANSFORMER
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF, SEE RECEPT. SYMBOL
XFR	TRANSFORMER

ELECTRICAL CODE LIST

1. NATIONAL ELECTRIC CODE VERSION USED: 2008
2. FIRE ALARM CODE VERSION USED: NFPA 2008
3. INTERNATIONAL BUILDING CODE VERSION USED: 2003
4. AMERICANS WITH DISABILITIES ACT, (ADA)
5. NFPA 101: LIFE SAFETY CODE: 2009

ELECTRICAL DRAWING LIST

E0.1	LEGENDS AND ABBREVIATIONS ELECTRICAL
E0.2	SCHEDULES AND ONE-LINE - ELECTRICAL
E0.3	PANEL SCHEDULES - ELECTRICAL
E2.10A	FIRST FLOOR PLAN - DEMO WEST - LIGHTING-POWER
E2.10B	FIRST FLOOR PLAN - DEMO EAST - LIGHTING-POWER
E2.1A	FIRST FLOOR PLAN - WEST LIGHTING
E2.1B	FIRST FLOOR PLAN - EAST LIGHTING
E3.1A	FIRST FLOOR PLAN - WEST POWER AND SIGNAL
E3.1B	FIRST FLOOR PLAN - EAST POWER AND SIGNAL
E7.1	DETAILS - ELECTRICAL

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REGISTERED PROFESSIONAL ENGINEER
EXPIRES 06/13/2010

IN THE EVENT CONFLICTS ARE
DISCOVERED BETWEEN THE ORIGINAL
SIGNED AND SEALED DOCUMENTS
PREPARED BY THE ARCHITECTS AND/OR
THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL,
FAX, ELECTRONICALLY OR OTHERWISE,
THE ORIGINAL SIGNED AND SEALED
DOCUMENTS SHALL GOVERN.

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PERMIT SET

INSITU - IHOP ILC

118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009

PLOT DATE: 09.15.10

DRAWN:

APPROVED:

REVISIONS:

LEGENDS AND
ABBREVIATIONS
ELECTRICAL



NAME:

LAMP INFORMATION

BALLAST

TOTAL

SIZE/ DESCRIPTION

DESCRIPTION

VA

MANUFACTURER

CATALOG NUMBER

VOLT

MOUNTING

RECESS

DEPTH

REMARKS

GA	EXISTING 2X4 LENSED TROFFER, CLEAN AND RELAMP LUMINAIRE PRIOR TO INSTALLATION.	FL	2	32W T8 80+ CRI, 3500K	ELECTRONIC	62	EXISTING	EXISTING	UNIV	RECESSED CEILING		BODINE B50ST BALLAST TO BE INCLUDED IN EMERGENCY LUMINAIRES
HA	8' FLUORESCENT HIGH PERFORMANCE INDUSTRIAL STRIP.	FL	1	32W T8 80+ CRI	ELECTRONIC	32	LITHONIA OR APPROVED	FAL-32L	UNIV	CHAIN HUNG CEILING	MTD 23' AFF	BODINE B50ST BALLAST TO BE INCLUDED IN EMERGENCY LUMINAIRES
HA1	8' FLUORESCENT HIGH PERFORMANCE INDUSTRIAL STRIP.	FL	1	32W T8 80+ CRI	ELECTRONIC	32	LITHONIA OR APPROVED	FAL-32L	UNIV	CHAIN HUNG CEILING	MTD 15' AFF	BODINE B50ST BALLAST TO BE INCLUDED IN EMERGENCY LUMINAIRES

GENERAL NOTES:

A. PRODUCT NUMBERS SHOWN ARE ASSOCIATED WITH THE FIRST MANUFACTURER LISTED ON THE LUMINAIRE SCHEDULE FOR EACH LUMINAIRE TYPE. ALL OTHER LISTED MANUFACTURERS ARE APPROVED BUT MUST MEET ALL REQUIREMENTS OF SPECIFIED ITEM. CONTRACTOR TO SUBMIT CUTSHEETS OF ALTERNATE AND APPROVED MANUFACTURERS PRODUCT ALONG WITH CUTSHEETS OF SPECIFIED FIXTURE FOR REVIEW AND APPROVAL BY ENGINEER.

B. SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE, PROVIDE BODINE B50ST (T8) BACK-UP BATTERY BALLAST TO EACH LUMINAIRE. PROVIDE AN UNSWITCHED CONSTANT HOT TO THE BODINE BALLAST TO MONITOR THE LOSS OF NORMAL POWER AND KEEP LUMINAIRE ALWAYS 'ON,' IF A NIGHT LIGHT 'NL.'

C. CONTRACTOR IS RESPONSIBLE TO VERIFY CEILING TYPE AND THICKNESS AND PROVIDE REQUIRED LUMINAIRE MOUNTING TRIMS & BRACKETS FOR ALL FIXTURE TYPES.

D. IN LOCATIONS WHERE DUCT WORK RUNS OVER THE TOP OF RECESSED LUMINAIRES, THE LUMINAIRES AT THESE LOCATIONS WILL BE HORIZONTALLY SUPPORTED TO AVOID UNNECESSARY DUCT PENETRATIONS. LUMINAIRES ARE TO BE SUPPORTED BY THE CEILING SYSTEM OR BUILDING STRUCTURE ONLY.

E. ALL SUSPENDED LINEAR LUMINAIRES TO BE EQUIPPED WITH WHITE POWER CORD.

9/2/10 3:48 PM

- GENERAL PROJECT NOTES
- A. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT, UON.

B. REFER TO ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS PRIOR TO ROUGH-IN FOR EXACT LOCATION OF RECEPTACLES, FLOOR BOXES AND OUTLETS. INFORM ENGINEER OF CONFLICTS.

C. THE CIRCUITING SHOWN IS DIAGRAMMATIC. THE DRAFTING METHOD WHICH MOST SIMPLY CONVEYS THE CIRCUITING INTENT IS EMPLOYED. WHERE DEVICES OR EQUIPMENT ARE SHOWN UNCONNECTED, CONNECT (IN A MANNER CONSISTENT WITH THE MATERIALS AND METHODS INDICATED IN THE SPECIFICATIONS AND DRAWINGS) FROM THE WIRING EXTENSION POINT SHOWN TO EACH DEVICE USING: 1) MC CABLE IN HARD AND ACCESSIBLE CEILING AREAS -OR- 2) CONDUIT & WIRE ONLY IN EXPOSED AREAS.

D. CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM CEILING TYPES IN ALL ROOMS (ACCESSIBLE, EXPOSED, OR "HARD") AND TO USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. INSURE ALL J-BOXES ARE ACCESSIBLE AFTER ALL OTHER TRADE'S WORK IS COMPLETED. DO NOT LOCATE ANY J-BOXES ON "HARD" CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH DEVICE ONLY IN "DAISEY-CHAIN" METHOD OR WITH DEDICATED HOMERUNS TO EACH DEVICE. J-BOXES MAY BE LOCATED ABOVE OTHER TRADE'S ACCESS DOORS IF FEASIBLE AND DOES NOT INTERFERE WITH ACCESS.

E. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS INCLUDING NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES.

F. CIRCUIT SIZES THAT ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL USE CIRCUIT SIZES INDICATED IN NOTES OR RESPECTIVE SCHEDULES (PNL, MCC, ETC.) AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.

G. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC.

H. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 1 PHASE CIRCUIT TO COMPLY WITH NEC 210.4 (B).

I. UP SIZE WIRE FOR VOLTAGE DROP AS REQUIRED BY ROUTING.

J. PROVIDE SPECIAL RECEPTACLES THAT MATCH CORD AND CAP PROVIDED WITH EQUIPMENT, UON. USE ADJACENT NEMA CONFIGURATION NUMBER, IF ONE IS SHOWN.

K. IN COMMON PARTY WALLS AND CEILINGS PROVIDE PUDDY PADS AROUND JUNCTION BOXES, RECEPTACLES AND TELECOM OUTLET. RECEPTACLES AND TELECOM OUTLETS SHALL NOT BE MOUNTED WITH IN 24 INCHES BACK TO BACK OF EACH OTHER.

L. ALL NEW RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED IN WALLS. ALL CONDUITS TO BE INSTALLED 90° TO BUILDING LINES - NO EXCEPTIONS

M. PROVIDE CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. CONTRACTOR TO VERIFY PRIOR TO ROUGH-IN AND INSTALLATION AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS.

N. CONTRACTOR TO PROVIDE DAMPER POSITION LED IN PUBLIC FINISHED CEILING FOR ALL FIRE SMOKE DAMPERS.

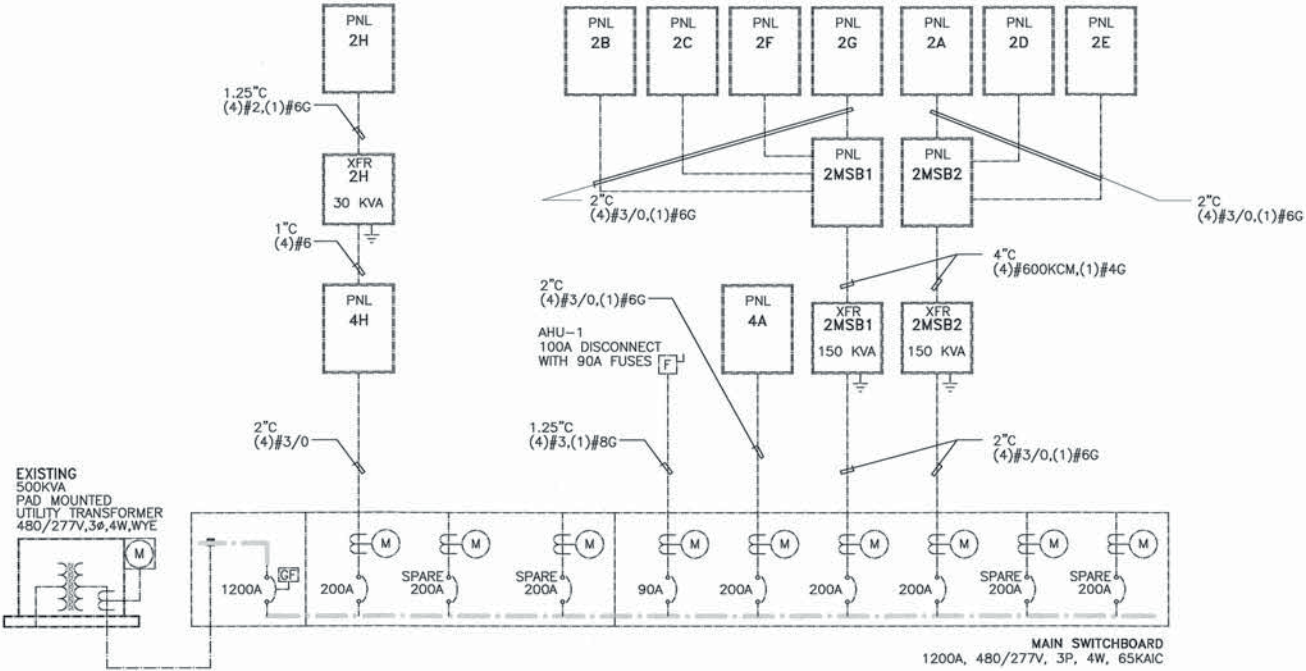
O. THESE DOCUMENTS REFLECT THE FINAL ANTICIPATED LAYOUT OF SYSTEMS AND APPURTENANCES FOR THIS PROJECT. IT IS NOT THE INTENT OF THESE DOCUMENTS TO INDICATE SPECIFIC SCOPE OF WORK REQUIRED ON A PHASE BY PHASE BASIS. THE FINAL DESIGN INDICATED DOES ALLOW FOR THE WORK TO BE INSTALLED IN A PHASED APPROACH. THE CONTRACTOR SHALL DETERMINE ADDITIONAL SCOPE OF WORK REQUIRED TO ACCOMMODATE ALL PHASING ASPECTS OF THE PROJECT AND INCLUDE THAT SCOPE IN THIS BID.

P. LUMINAIRES WITH "NL" ADJACENT TO IT INDICATES CONNECTION TO UNSWITCHED HOT CONDUCTOR. THIS IS ONLY SHOWN WHERE THERE IS A POSSIBILITY OF CONFUSION WHEN A GROUP OF LUMINAIRES ARE CONTROLLED TOGETHER EXCEPT FOR THE NIGHTLIGHT LUMINAIRE.

Q. PROVIDE A COMPLETE FIRE ALARM SYSTEM THAT MEETS THE CODE MINIMUM. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.

R. ALL OCCUPANCY SENSORS LOCATED IN CONFERENCE ROOMS SHALL TURN THE LIGHTS 'OFF' ONLY.

VOLTAGE:	277Y/480V	3Ø, 4W					
MOUNTING:	PAD						
MAIN:	1200A MCB						
BUS RATING	1200A						
AIC RATING:	SEE ONE LINE						
MAIN SERVICE							
LOAD SUMMARY							
LOAD TYPE			CONN. KVA	DEMAND FACTOR	DEMAND KVA	DEMAND AMPS	CONN LOAD SUMMARY
(L) LIGHTING →			44.5	NEC 220-11	55.6	66.9	PH AMPS
(R) RECEPTACLES →			92.1	NEC 220-13	51.1	61.4	A 408.7
(M) MOTOR LOADS →			0	1.0	0	0	B 403.2
LARGEST MOTOR →			0	0.25	0	0	C 411.6
(C) CONTINUOUS →			0	1.25	0	0	
(N) NON-CONTINUOUS →			202.3	1.0	202.3	243.4	
(K) KITCHEN EQUIP. →			0	1.0	0	0	
(#) SPECIAL DEMAND →			0	1.0	0	0	
TOTAL →			339		309	372	80% RATED PNL DEMAND FACTORS
WITH 0% SPARE →			339		309	372	



BRANCH CIRCUIT SCHEDULE							
CIRCUIT TAG	CONDUITS			CONDUCTORS PER SET		WIRING CONFIG.	NOTES
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND		
60.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	1Ø,2W,N	-
60.2	0.75"	1	1.00"	(2) #6	#10	1Ø,2W	-
60.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	1Ø,1W,N	-
50.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	1Ø,2W,N	-
50.2	0.75"	1	1.00"	(2) #6	#10	1Ø,2W	-
50.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	1Ø,1W,N	-
40.2N	0.75"	1	1.00"	(2) #8, (1) #8N	#10	1Ø,2W,N	-
40.2	0.75"	1	1.00"	(2) #8	#10	1Ø,2W	-
40.1	0.75"	1	1.00"	(1) #8, (1) #8N	#10	1Ø,1W,N	-
30.2N	0.75"	1	1.00"	(2) #10, (1) #10N	#10	1Ø,2W,N	-
30.2	0.75"	1	1.00"	(2) #10	#10	1Ø,2W	-
30.1	0.75"	1	1.00"	(1) #10, (1) #10N	#10	1Ø,1W,N	-
20.2N	0.50"	1	1.00"	(2) #12, (1) #12N	#12	1Ø,2W,N	7,8
20.2	0.50"	1	1.00"	(2) #12	#12	1Ø,2W	7,8
20.1	0.50"	1	1.00"	(1) #12, (1) #12N	#12	1Ø,1W,N	7,8
NOTES: 1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION. 2. THIS SCHEDULE SHALL BE USED ON ALL BRANCH CIRCUITS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. USE THE "MOTOR CIRCUIT SCHEDULE" FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC., WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER. 3. PROVIDE GROUND WIRE NOTED ABOVE IN ALL BRANCH CIRCUITS. 4. NOT ALL BRANCH CIRCUITS SHOWN ABOVE ARE NECESSARILY USED ON THIS PROJECT. 5. "MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER. 6. THIS SCHEDULE APPLIES TO STANDARD LENGTH CIRCUITS ONLY. CONTRACTOR TO UPSIZE WIRING AS REQUIRED TO MEET MINIMUM VOLTAGE DROP REQUIREMENTS INDICATED IN SPECIFICATIONS. GROUND CONDUCTOR WILL ALSO NEED TO BE INCREASED PROPORTIONATELY AS REQUIRED BY NEC. 7. THESE BRANCH CIRCUITS TAGS ARE TYPICALLY NOT SHOWN ON PLANS FOR CLARITY REASONS. CONTRACTOR SHALL USE THIS INFORMATION AS IT APPLIES FOR ALL CONDUITS CONTAINING ONE OR MORE 20A/1P CIRCUITS. 8. CONTRACTOR MAY COMBINE 20A 1 AND 2-POLE CIRCUITS, UP TO A MAXIMUM OF 3 PHASE CONDUCTORS, IN ONE CONDUIT. 9. ALL HOMERUNS SHALL USE 0.75" CONDUIT SIZE MINIMUM.							

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GREGORY S. RICHARDS
STATE OF WASHINGTON
No. 25784
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 06/13/2010

IN THE EVENT CONFLICTS ARE
DISCOVERED BETWEEN THE ORIGINAL
SIGNED AND SEALED DOCUMENTS
PREPARED BY THE ARCHITECTS AND/OR
THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL,
FAX, ELECTRONICALLY OR OTHERWISE,
THE ORIGINAL SIGNED AND SEALED
DOCUMENTS SHALL GOVERN.

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PERMIT SET

INSITU - IHOP ILC

118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 09.15.10
DRAWN:
APPROVED:
REVISIONS:

SCHEDULES AND
ONE-LINE -
ELECTRICAL

Production Date: Project Manager: Project Engineer:

E0.2

LOCATION: ELECTRICAL ROOM

*** EXISTING EQUIPMENT ***

NORMAL POWER

PANEL 4A

POLE NO.	LOAD SERVED	CKT SIZE	LOAD			C.B.			C.B.			LOAD			POLE NO.	
			TYPE	HP	KVA	AMP	POL	PH	AMP	POL	TYPE	HP	KVA			
1	(EC) LTG OPEN OFFICE AREA	20.1	L	-	2.8	20	1	A	20	1	L	-	1.8	20.1	(EC) LTG HALL TRAINING	2
3	(EC) LTG OPEN OFFICE AREA	20.1	L	-	3.6	20	1	B	20	1	L	-	2.2	20.1	(EC) LTG HELPS, WOMENS, LIBRARY	4
5	(EC) LTG OPEN OFFICE AREA	20.1	L	-	1.4	20	1	C	20	1	L	-	3.2	20.1	(EC) LTG CONF., HALL, OFFICE	6
7	(EC) LTG OPEN OFFICE AREA	20.1	L	-	2.4	20	1	A	20	1	L	-	1.4	20.1	(EC) LTG ALTERNATE #1	8
9	(EC) LTG PROD. RESEARCH, DEV.	20.1	L	-	3.2	20	1	B	20	1	L	-	2.6	20.1	(EC) LTG ALTERNATE #1	10
11	(EC) LTG PRODUCTION	20.1	L	-	3.5	20	1	C	60	1	N	-	11	60.1	(EC) FPB-1, FPB-2, FPB-3	12
13	(EC) LTG PRODUCTION	20.1	L	-	3	20	1	A	50	1	N	-	10	50.1	(EC) FPB-4, FPB-5, FPB-6	14
15	(EC) LTG RESEARCH, DEVELOP	20.1	L	-	3	20	1	B	40	1	N	-	7.5	40.1	(EC) TU-1, TU-2, TU-3, TU-4	16
17	(EC) LTG RESEARCH, DEVELOP	20.1	L	-	3.2	20	1	C	30	1	N	-	5.5	30.1	(EC) TU-10, TU-11, TU-7	18
19	(EC) LTG RESEARCH, DEVELOP	20.1	L	-	2.4	20	1	A	20	1	N	-	3.5	20.1	(EC) TU-8, TU-9	20
21	(EC) LTG SYSTEM, CHECK BAY	20.1	L	-	1.2	20	1	B	20	1	-	-	-	-	SPARE BREAKER	22
23	(EC) EDH-1	20.4	N	-	2.7	20	3	C	20	1	-	-	-	-	SPARE BREAKER	24
25	"	"	N	-	2.7	"	"	A	20	1	-	-	-	-	SPARE BREAKER	26
27	"	"	N	-	2.7	"	"	B	20	1	-	-	-	-	SPARE BREAKER	28
29	(NL) LIGHTING - BIN STORAGE	20.1	L	-	1.2	20	1	C	20	1	-	-	-	-	SPARE BREAKER	30
31	SPARE BREAKER	-	-	-	-	20	1	A	20	1	-	-	-	-	SPARE BREAKER	32
33	SPARE BREAKER	-	-	-	-	20	1	B	20	1	-	-	-	-	SPARE BREAKER	34
35	SPARE BREAKER	-	-	-	-	20	1	C	20	1	-	-	-	-	SPARE BREAKER	36
37	SPARE BREAKER	-	-	-	-	20	1	A	20	1	-	-	-	-	SPARE BREAKER	38
39	SPARE BREAKER	-	-	-	-	20	1	B	20	1	-	-	-	-	SPARE BREAKER	40
41	SPARE BREAKER	-	-	-	-	20	1	C	20	1	-	-	-	-	SPARE BREAKER	42

VOLTAGE: 277V/480V 3Ø, 4W

MOUNTING: SURFACE

MAIN: 200A MCB

BUS RATING: 225A

AIC RATING: SEE ONE LINE

LOAD TYPE

CONN. KVA

DEMAND FACTOR

DEMAND KVA

AMPS

CONN. LOAD SUMMARY

PH

AMPS

(L) LIGHTING → 42.1

(R) RECEPTACLES → 0

(M) MOTOR LOADS → 0

LARGEST MOTOR → 0.25

(C) CONTINUOUS → 0

(N) NON-CONTINUOUS → 45.6

(K) KITCHEN EQUIP. → 0

(#) SPECIAL DEMAND → 0

TOTAL → 88

WITH 0% SPARE → 88

NEC 220-11

NEC 220-13

1.0

0.25

1.25

1.0

1.0

1.0

98

98

52.6

0

0

0

0

45.6

0

0

118

118

63.3

0

0

0

0

54.9

0

0

118

118

80% RATED

P.NL DMND FACTORS

CIRCUIT NOTES:

(EC) = EXISTING CIRCUIT TO REMAIN

(NL) = NEW LOAD ON EXISTING BREAKER

PROJECT: INSITU - INOP

ISSUED FOR: ISSUE FOR PERMIT

DATE ISSUED: 16-APR-2010

FED FROM: MAIN SWITCHBOARD

LOCATION: ELECTRICAL ROOM

*** EXISTING EQUIPMENT ***

NORMAL POWER

DATE: 08/08/2019

PANEL 2C

POLE NO.	LOAD SERVED	CKT SIZE	LOAD			C.B.			C.B.			LOAD SERVED	POLE NO.			
			TYPE	HP	KVA	AMP	POL	PH	AMP	POL	TYPE	HP	KVA			
1	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	A	20	1	R	-	.7	20.1	(EC) DCQ OFFICE	2
3	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	B	20	1	R	-	.7	20.1	(EC) DCQ OPEN OFFICE AREA	4
5	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	C	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	6
7	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	A	20	1	R	-	.7	20.1	(EC) DCQ OPEN OFFICE AREA	8
9	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	B	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	10
11	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	C	20	1	R	-	.7	20.1	(EC) DCQ OPEN OFFICE AREA	12
13	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	A	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	14
15	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	B	20	1	R	-	.7	20.1	(EC) DCQ OPEN OFFICE AREA	16
17	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	C	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	18
19	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	A	20	1	R	-	.2	20.1	(EC) DCQ OPEN OFFICE AREA	20
21	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	B	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	22
23	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	C	20	1	R	-	.7	20.1	(EC) DCQ OPEN OFFICE AREA	24
25	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	A	20	1	R	-	.4	20.1	(EC) DCQ OPEN OFFICE AREA	26
27	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	B	20	1	R	-	.5	20.1	(EC) DCQ OPEN OFFICE AREA	28
29	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	C	20	1	R	-	.5	20.1	(EC) DCQ OPEN OFFICE AREA	30
31	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	A	20	1	R	-	-	-	SPARE BREAKER	32
33	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.7	20	1	B	20	1	R	-	-	-	SPARE BREAKER	34
35	(EC) DCQ OPEN OFFICE AREA	20.1	R	-	.4	20	1	C	20	1	R	-	-	-	SPARE BREAKER	36
37	(EC) GWN-1	20.1	N	-	.1	20	1	A	20	1	R	-	-	-	SPARE BREAKER	38
39	SPARE BREAKER	-	-	-	-	20	1	B	20	1	R	-	-	-	SPARE BREAKER	40
41	SPARE BREAKER	-	-	-	-	20	1	C	20	1	R	-	-	-	SPARE BREAKER	42

VOLTAGE: 120Y/208V 3Ø, 4W

MOUNTING: SURFACE

MAIN: 225A MLO

BUS RATING 225A

A/C RATING: SEE ONE LINE

ADDITIONAL PANEL FEATURES:

LOAD TYPE	CONN. KVA	DEMAND FACTOR	DEMAND AMP	CONN. LOAD SUMMARY	CIRCUIT NOTES:
(L) LIGHTING ----->	0	NEC 220-11	0	PH AMP	[EC] = EXISTING CIRCUIT TO REMAIN
(R) RECEPTACLES ----->	17.7	NEC 220-13	13.9	38.5	
(M) MOTOR LOADS ----->	0	1.0	0	B 52.5	
LARGEST MOTOR ----->	0	9.25	0	C 50.0	
(C) CONTINUOUS ----->	0	1.25	0	0	NO NEW WORK IN THIS PANEL
(N) NON-CONTINUOUS ----->	.1	1.0	.1	.3	
(K) KITCHEN EQUIP. ----->	0	1.0	0	0	
(#) SPECIAL DEMAND ----->	0	1.0	0	0	
TOTAL ----->	18		14	39	
WITH 0% SPARE ----->	18		14	39	80% RATED PNL DMDN FACTORS

FED FROM: PANEL 2MBS1

PROJECT: INBITU - INOP

ISSUED FOR: ISSUE FOR PERMIT

DATE ISSUED: 16-APR-2010

LOCATION: HALL 141

*** EXISTING EQUIPMENT ***

NORMAL POWER

PANEL 2F

POLE NO.	LOAD SERVED	CKT SIZE	LOAD		C.B.		C.B.		LOAD		CKT SIZE	LOAD SERVED	POLE NO.			
			TYPE	HP	KVA	AMP	POL	AMP	POL	TYPE				HP	KVA	
1	(EC) DCO PRODUCTION AREA	20.1	R	-	.7	20	1	A	20	1	R	-	1.3	20.1	(EC) DCO PRESIDENTS OFFICE	2
3	(EC) DCO PRODUCTION AREA	20.1	R	-	.7	20	1	B	1	R	-	.9	20.1	(EC) DCO CONF. ROOM 128,127	3	
5	(EC) DCO PRODUCTION AREA	20.1	R	-	.7	20	1	C	20	1	R	-	.7	20.1	(EC) DCO CONF. ROOM 127,125	5
7	(EC) DCO PRODUCTION AREA	20.1	R	-	.2	20	1	A	20	1	R	-	.5	20.1	(EC) DCO CONF. ROOM 128,127,125	7
9	(EC) DCO TOILET ROOMS	20.1	R	-	.5	20	1	B	20	1	R	-	1	20.1	(EC) DCO CONF. ROOM 137, PROJ.	9
11	(EC) KITCHEN WARMING CABINET	20.1	N	-	1	20	1	C	20	1	R	-	.7	20.1	(EC) DCO CONF. ROOM 137	10
13	(EC) KITCHEN WARMING CABINET	20.1	N	-	1	20	1	A	20	1	R	-	.5	20.1	(EC) DCO CONF. ROOM 137	12
15	(EC) DISHWASHER	20.1	N	-	1.5	20	1	B	20	1	R	-	.7	20.1	(EC) DCO CONF. ROOM 137	14
17	(EC) REFRIGERATOR	20.1	N	-	1	20	1	C	20	1	R	-	.7	20.1	(EC) DCO CONF. ROOM 137	16
19	(EC) DCO KITCHEN	20.1	R	-	1	20	1	A	20	1	R	-	.4	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	18
21	(EC) DCO COFFEE	20.1	R	-	1.5	20	1	B	20	1	R	-	.7	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	20
23	(EC) DCO MICROWAVE	20.1	N	-	1	20	1	C	20	1	R	-	.7	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	22
25	(EC) DOOR BELL ANNUNCIATOR	20.1	R	-	1	20	1	A	20	1	R	-	.4	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	24
27	(EC) DCO VIP OFFICE, OFFICES	20.1	R	-	1	20	1	B	20	1	R	-	.4	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	26
29	(EC) DCO VP OFFICE, WAITING	20.1	R	-	1.1	20	1	C	20	1	R	-	.7	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	28
31	(EC) DCO HALL, OFFICE 136	20.1	R	-	1.1	20	1	A	20	1	R	-	.7	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	30
33	(EC) DCO RECEPTION	20.1	R	-	.7	20	1	B	20	1	R	-	.4	20.1	(EC) DCO OPEN OFFICE AREA ALT#1	32
35	(EC) DCO RECEPTION 131, VIP 130	20.1	R	-	1.1	20	1	C	20	1	R	-	-	-	SPARE BREAKER	34
37	(EC) EWH-1	30.2N	N	-	2.3	30	2	A	20	1	-	-	-	-	SPARE BREAKER	36
39	" "		N	-	2.3			B	20	1	-	-	-	-	SPARE BREAKER	38
41	(NL) RECEPTACLES - OFFICE	20.1	R	-	.4	20	1	C	20	1	R	-	.5	20.1	(NL) RECEPTACLES - OFFICE	40

VOLTAGE: 120Y/208V 3Ø, 4W

MOUNTING: SURFACE

MAIN: 225A MLO

BUS RATING: 225A

A/C RATING: SEE ONE LINE

ADDITIONAL PANEL FEATURES:

LOAD TYPE

(L) LIGHTING →

(R) RECEPTACLES →

(M) MOTOR LOADS →

LARGEST MOTOR →

(C) CONTINUOUS →

(N) NON-CONTINUOUS →

(K) KITCHEN EQUIP. →

(#) SPECIAL DEMAND →

TOTAL

WITH 0% SPARE →

FED FROM: PANEL 2MSB1

CONN. KVA

DEMAND FACTOR

DEMAND KVA

AMPS

80% RATED PNL DMND FACTORS

CIRCUIT NOTES:

(EC) EXISTING CIRCUIT TO REMAIN

(NL) NEW LOAD ON EXISTING CIRCUIT

PROJECT: INSITU - IHOP

ISSUED FOR: ISSUE FOR PERMIT

DATE ISSUED: 16-APR-2010

PROJECT: 1705020101000

PROJECT: RECEIVING 14G
DATE: 2009

LOCATION: RECEIVING 14G

*** EXISTING EQUIPMENT ***

PANEL 2D

NORMAL POWER

POLE NO.	LOAD SERVED	CKT SIZE	LOAD			C.B.			C.B.			CKT SIZE	LOAD SERVED	POLE NO.	
			TYPE	HP	KVA	AMP	POL	PH	AMP	POL	PH				
1	(EC) DCO TRAILER STORAGE	20.1	R	-	.7	20	1	A	20	1	R	-	-	SPARE BREAKER	2
3	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	4
5	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	6
7	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	8
9	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	10
11	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	30	3	N	-	50.4	{EC} DCO RESEARCH AND DEVELOP	12
13	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	N		N	-	4.8	{EC} 208V, 3P FUTURE OUTLET	14
15	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	N		N	-	4.8	" "	16
17	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	18
19	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	20
21	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	22
23	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	20	1	R	-	2	{EC} DCO RESEARCH AND DEVELOP	24
25	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	50	3	N	-	4.8	50.4 {EC} 208V, 3P FUTURE OUTLET	26
27	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	N		N	-	4.8	" "	28
29	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	N		N	-	4.8	" "	30
31	{EC} DCO SYSTEM CHECK BAY	20.1	R	-	.7	20	1	A	20	1	R	-	.7	20.1 {NL} WORKSTATIONS - NORTH	32
33	{EC} DCO SYSTEM CHECK BAY	20.1	R	-	.7	20	1	B	20	1	R	-	-	SPARE BREAKER	34
35	{EC} 208V, 3P FUTURE OUTLET	50.4	N	-	4.8	60	3	C	20	1	-	-	-	SPARE BREAKER	36
37	" "		N	-	4.8			A	20	1	-	-	-	SPARE BREAKER	38
39	" "		N	-	4.8			B	20	1	-	-	-	SPARE BREAKER	40
41	SPARE BREAKER	-	-	-	-	20	1	C	20	1	-	-	-	SPARE BREAKER	42

VOLTAGE: 120Y/208V 3Ø, 4W
MOUNTING: SURFACE
MAIN: 225A MLO
BUS RATING: 225A

AIC RATING: SEE ONE LINE

ADDITIONAL PANEL FEATURES:

LOAD TYPE	CONN. FACTOR	DEMAND	DEMAND	SUMMARY
(L) LIGHTING —→	0	NEC 220-11	0	0
(R) RECEPTACLES —→	4.4	NEC 220-13	4.4	12.2 A
(M) MOTOR LOADS —→	0	1.0	0	0
LARGEST MOTOR —→	0	0.25	0	0
(C) CONTINUOUS —→	0	1.25	0	0
(N) NON-CONTINUOUS —→	57.2	1.0	57.2	158.9
(K) KITCHEN EQUIP. —→	0	1.0	0	0
(#) SPECIAL DEMAND —→	0	1.0	0	0
TOTAL —→		62		62 171
WITH 0% SPARE —→		62		62 171

FED FROM PANEL 2MSB2

CONN LOAD SUMMARY	AMPS
PH AMPS	A 174.2
B	172.5
C	166.7

80% RATED PNL DMND FACTORS

CIRCUIT NOTES:
(EC)= EXISTING CIRCUIT TO REMAIN
(NL)= NEW LOAD ON EXISTING BREAKER

PROJECT: INSITU - IHOP
ISSUED FOR: ISSUE FOR PERMIT
DATE ISSUED: 16-APR-2010

[illegible][illegible]

DATE: 12/10/2016

PROJECT: INSITU - IHOP

LOCATION: RECEIVING 146

SP = LOADS FROM SURFED PANEL(S) DCX XPR = SIZE FOR XPR SCHD

(POWER FACTOR) (KVA) (KW) (Amps) (HP) (Circuit Breaker Size) (18 Aug 2011 ~ 420 amp min)

*** EXISTING EQUIPMENT ***

PANEL 2E

POLE NO.	LOAD SERVED	CKT SIZE	LOAD			C.B.			CTKT SIZE	LOAD SERVED	POLE NO.					
			TYPE	HP	KVA	AMP	POL	PH								
1	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	A	20	1	N	.8	20.1	(EC) EF-1	2	
3	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	B	20	1	N	.1	20.1	(EC) EF-2	4	
5	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	C	20	1	N	.9	20.1	(EC) EF-3	6	
7	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	A	20	1	N	.6	20.1	(EC) FC-1	8	
9	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	B	20	2	N	.1	20.2N	(EC) HP-1	10	
11	(EC) DCO RESEARCH AND DEVELOP	20.1	R	-	.2	20	1	A	20	1	N	1.1	20.1	" "	12	
13	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	20	1	N	-	3	20.1	(EC) UH-1A	14
15	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	20	1	N	-	3	20.1	(EC) UH-1B	16
17	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C	20	1	N	-	3	20.1	(EC) UH-1C	18
19	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	A	20	1	N	-	3	20.1	(EC) UH-1D	20
21	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	B	20	2	N	-	1.4	20.2N	(EC) CU-2	22
23	(EC) POWER ROUGH-IN J-BOX	20.1	N	-	1	20	1	C			N	-	1.4	" "	24	
25	SPARE BREAKER	-	-	-	-	20	1	A	20	2	N	-	1	20.2N	(EC) FC-2	26
27	SPARE BREAKER	-	-	-	-	20	1	B			N	-	.1	" "	" "	28
29	SPARE BREAKER	-	-	-	-	20	1	C	20	1	R	-	.5	20.1	(NL) RECEPTACLES - OFFICE	30
31	SPARE BREAKER	-	-	-	-	20	1	A	20	1	R	-	.5	20.1	(NL) RECEPTACLES - OFFICE	32
33	SPARE BREAKER	-	-	-	-	20	1	B	20	1	R	-	.5	20.1	(NL) RECEPTACLES - OFFICE	34
35	SPARE BREAKER	-	-	-	-	20	1	C	20	1	-	-	-	-	SPARE BREAKER	36
37	SPARE BREAKER	-	-	-	-	20	1	A	20	1	-	-	-	-	SPARE BREAKER	38
39	SPARE BREAKER	-	-	-	-	20	1	B	20	1	-	-	-	-	SPARE BREAKER	40
41	SPARE BREAKER	-	-	-	-	20	1	C	20	1	-	-	-	-	SPARE BREAKER	42

VOLTAGE: 120Y/208V 3Ø, 4W

MOUNTING: SURFACE

MAIN: 225A MLO

BUS RATING: 225A

AIC RATING: SEE ONE LINE

ADDITIONAL PANEL FEATURES:

LOAD TYPE

(L) LIGHTING →

(R) RECEPTACLES →

(M) MOTOR LOADS →

LARGEST MOTOR →

(C) CONTINUOUS →

(N) NON-CONTINUOUS →

(K) KITCHEN EQUIP. →

(#) SPECIAL DEMAND →

TOTAL →

WITH 0% SPARE →

CONN. FACTOR

0

2.7

0

0.25

0

14.8

0

0

18

18

DEMAND KVA

NEC 220-11

NEC 220-13

1.0

0

1.0

14.8

1.0

1.0

16

16

DEMAND AMP

0

2.7

0

0

0

14.8

1.0

1.0

49

49

80% RATED PNL DMMD FACTORS

PH AMPS

A 41.7

B 49.2

C 55.0

CIRCUIT NOTES

(EC)= EXISTING CIRCUIT TO REMAIN

(NL)= NEW LOAD ON EXISTING BREAKER

PROJECT: INSITU - IHOP

ISSUED FOR: ISSUE FOR PERMIT

DATE ISSUED: 16-APR-2010

FED FORM: PANEL 2MSB2

UNPLATED SHEET PILE TO BE
SP = LOADS FROM SUSPENDED PANEL/JACO XPR = SIZE PER XPR SCHED

GENERAL NOTES

A. SEE SHEET E6.1 FOR THE BUILDING ELECTRICAL LOAD SUMMARY.

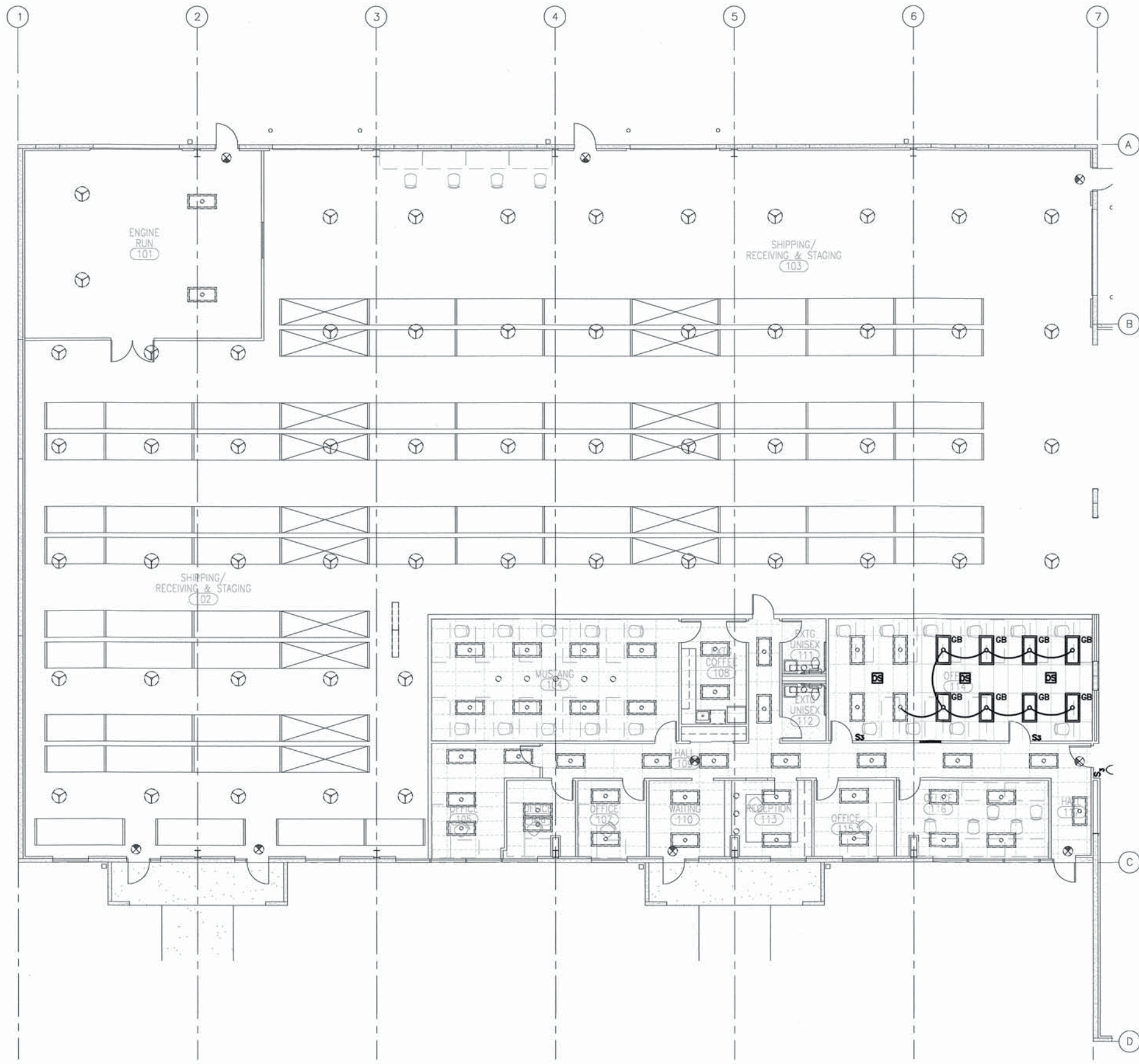
B. EXISTING CIRCUITING TO BE DEMOLISHED IS NOT SHOWN IN THESE PANEL SCHEDULES. CONTRACTOR TO UPDATE THE SCHEDULES BASED ON FIELD WORK.

PANEL 4A	PANEL 2C	PANEL 2F
PANEL 2A	PANEL 2D	PANEL 2G

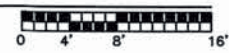
GENERAL NOTES

- A. SEE SHEET E6.1 FOR THE BUILDING ELECTRICAL LOAD SUMMARY.
- B. EXISTING CIRCUITING TO BE DEMOLISHED IS NOT SHOWN IN THESE PANEL SCHEDULES. CONTRACTOR TO UPDATE THE SCHEDULES BASED ON FIELD WORK.

PANEL 4A	PANEL 2C	PANEL 2F
PANEL 2A	PANEL 2D	PANEL 2G
PANEL 2B	PANEL 2E	



1 FIRST FLOOR PLAN - WEST LIGHTING
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- REFER TO SHEET E0.1 FOR ADDITIONAL PROJECT INFORMATION.
- REFER TO PANEL SCHEDULES ON SHEETS E0.3 AND E0.4 FOR ADDITIONAL CIRCUITING INFORMATION.

SHEET NOTES

- INTERCEPT EXISTING CIRCUITING AND CONNECT RELOCATED LUMINAIRE AS SHOWN. RELOCATED LUMINAIRE TO TIE INTO EXISTING LIGHTING CONTROLS.
- LOCAL CONTROL FOR STORAGE BIN AREA. PROVIDE A NEW TIME SWITCH TO SWEEP THE TYPE 'HA' AND 'HA1' FIXTURES.

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GREGORY S. RICHARDS
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 06/13/2010

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

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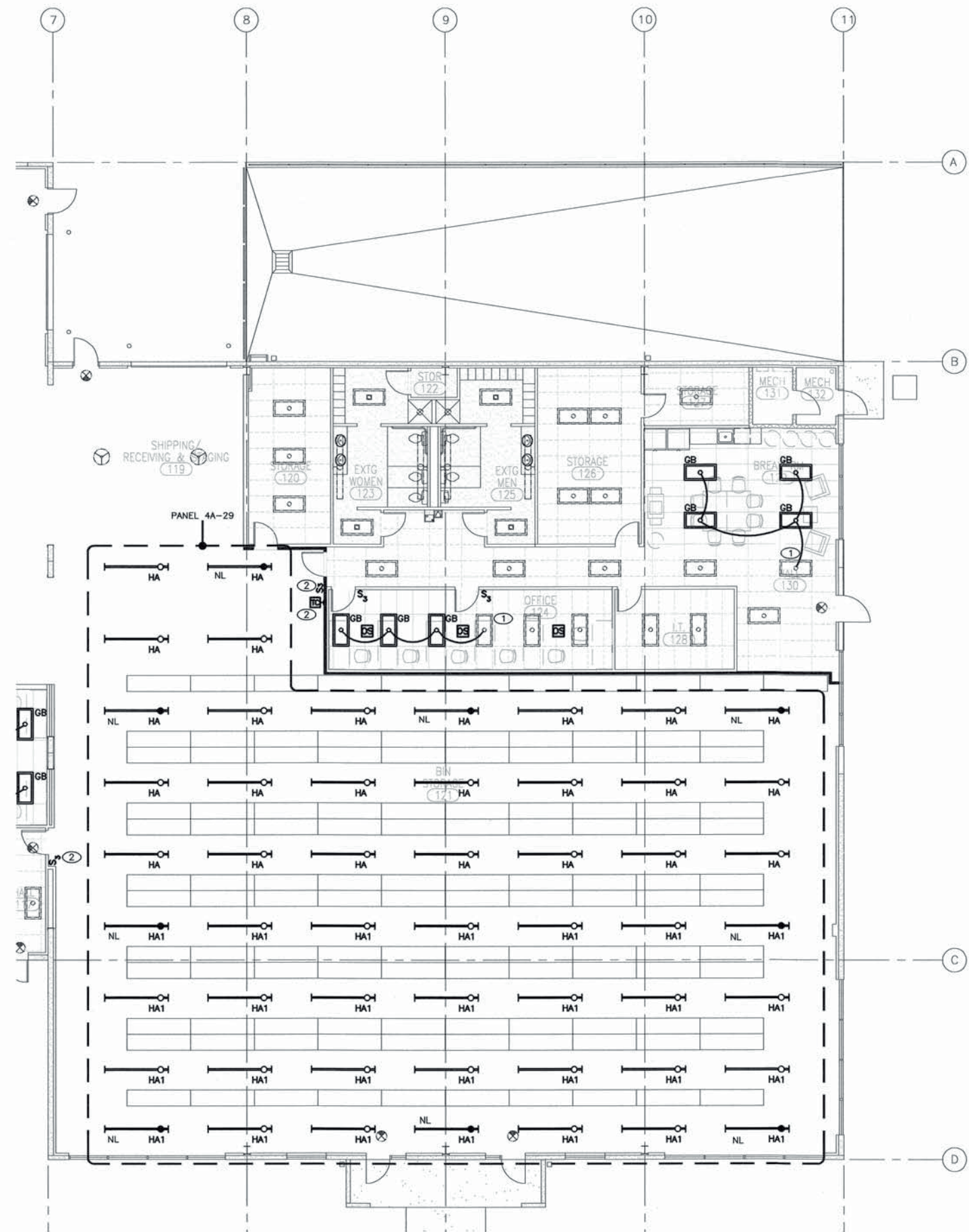
PERMIT SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 09.15.10
DRAWN:
APPROVED:
REVISIONS:

FIRST FLOOR
PLAN - WEST
LIGHTING

E2.1A



1 FIRST FLOOR PLAN - EAST LIGHTING
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET E0.1 FOR ADDITIONAL PROJECT INFORMATION.
- B. REFER TO PANEL SCHEDULES ON SHEETS E0.3 AND E0.4 FOR ADDITIONAL CIRCUITING INFORMATION.

SHEET NOTES

- 1. INTERCEPT EXISTING CIRCUITING AND CONNECT RELOCATED LUMINAIRES AS SHOWN. RELOCATED LUMINAIRES TO TIE INTO EXISTING LIGHTING CONTROLS.
- 2. LOCAL CONTROL FOR STORAGE BIN AREA. PROVIDE A NEW TIME SWITCH TO SWEEP THE TYPE 'HA' AND 'HA1' FIXTURES.

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BINGEN, WA 98672

PROJECT NUMBER:	10009
PLOT DATE:	09.15.10
DRAWN:	
APPROVED:	
REVISIONS:	

FIRST FLOOR
PLAN - EAST
LIGHTING

PROJECT NORTH

E2.1B



1 FIRST FLOOR PLAN - DEMO WEST - LIGHTING-POWER
SCALE: 1/8" = 1'-0"



GENERAL NOTES

- A. EXISTING WALLS AND CEILINGS TO BE DEMOLISHED ARE SHOWN DASHED. REFER TO ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION.
- B. REFER TO SPECIFICATION SECTION 260500 FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- C. FOR WALLS, SOFFITS, CASEWORK, ISLANDS, CEILINGS, ETC. SHOWN TO BE DEMOLISHED REMOVE THE FOLLOWING:
1. TELECOM OUTLET BOXES AND RACEWAYS, COORDINATE CABLE REMOVAL WITH GENERAL CONTRACTOR AND OWNER.
 2. POWER OUTLETS, WIREMOLD, RECEPTACLES AND ALL OTHER ELECTRICAL DEVICES INCLUDING THEIR J-BOXES, CONDUIT AND WIRE.
 3. LIGHT SWITCHES INCLUDING THEIR J-BOXES, CONDUIT AND WIRE.
 4. FIRE ALARM AND OTHER LOW-VOLTAGE DEVICES INCLUDING THEIR J-BOXES, CONDUIT AND WIRE.
 5. ALL J-BOXES ON EXPOSED CEILINGS AND WALLS, REWORK CONDUIT AND WIRING IF CIRCUIT CONTAINED OR USED IN J-BOX SERVES EXISTING TO REMAIN LIGHTING OR DEVICES, RELOCATE J-BOX AS REQUIRED TO ABOVE ACCESSIBLE CEILING. INTENT IS TO HAVE NO BLANK COVERPLATES ON FINISHED SURFACES AT COMPLETION OF PROJECT.
 6. EXISTING LUMINAIRES, ASSOCIATED CONDUIT AND CONDUCTORS.
 7. ALL EXIT SIGNS, LEAVE EXISTING CONDUIT AND WIRING, WHERE APPROPRIATE, THAT IS LOCATE ABOVE CEILINGS, INTENT IS TO KEEP EXISTING EMERGENCY POWER SYSTEM WIRING AND INSTALL NEW EXIT SIGNS IN SAME LOCATION, IF APPLICABLE.
- D. WHERE REMODELING INTERFERES WITH EXISTING CIRCUITS AND EQUIPMENT WHICH IS NOT TO BE REMOVED, SUCH CIRCUITS AND EQUIPMENT SHALL BE REWORKED AND RELOCATED AS REQUIRED TO MAINTAIN SERVICE TO ITEM. REFER ALL QUESTIONABLE SITUATIONS TO THE ENGINEER. DO NOT LOCATE J-BOXES ON WALLS, EXCEPT ONES REQUIRED TO MOUNT THE ITEM. I.E. AT THE COMPLETION OF THE PROJECT THERE SHALL BE NO J-BOXES WITH BLANK COVERPLATES ON WALLS OR CEILINGS, THE PROJECT SHALL APPEAR AS NEW CONSTRUCTION.
- E. REMOVE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT AND DEVICES BACK TO THE EXISTING HOMERUN FROM WHICH THEY ARE FED OR THE NEAREST ACTIVE DEVICE THAT IS TO REMAIN. REMOVE ALL OLD TYPE WIRING IF IT IS NOT RATED FOR 90°C.
- F. IF POSSIBLE, EXISTING BRANCH CIRCUIT HOMERUN CONDUITS AND WIRES ARE TO REMAIN AND BE REUSED IN THE NEW CONSTRUCTION PHASE OF WORK. DOWNSTREAM BRANCH CIRCUIT CONDUITS AND WIRING SERVING EXISTING-TO-BE-REMOVED EQUIPMENT, RECEPTACLES AND LUMINAIRES ARE TO BE REMOVED. INTENT IS TO REUSE THE MAIN INFRASTRUCTURE AND REMOVE ALL THE BRANCH CIRCUITING THAT WILL NO LONGER BE USED. REMOVE EXISTING HOMERUNS BACK TO PANEL IF THEY WILL NOT BE USED AT THE COMPLETION OF THE PROJECT.
- G. CONTRACTOR SHALL VERIFY CIRCUITS WITH TRACING DEVICE AND LABEL CIRCUITS AVAILABLE AT EACH J-BOX, MODIFY DRAWINGS AS REQUIRED TO DOCUMENT ACTUAL CIRCUITING.
- H. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN ITEMS.
- I. ALL REMOVED ELECTRICAL MATERIAL INCLUDING WIRING, RACEWAYS, OUTLETS, DEVICES, SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE.
- J. ALL SALVAGED LUMINAIRES, EXIT SIGNS, PANELS, DISTRIBUTION PANELS, TRANSFORMERS, AND POWER BUSWAY SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER TO OWNER'S STORAGE SITE. IF NOT TO BE RETAINED THEN THEY SHALL BECOME THE PROPERTY OF THE OWNER UNLESS OWNER DIRECTS OTHERWISE.
- K. DAMAGE TO OTHER TRADE'S WORK AS A RESULT OF THIS WORK IS TO BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER.
- L. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK. ALL ASSOCIATED DEMOLITION COSTS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF DISCERNIBLE CONDITIONS, WHETHER OR NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.
- M. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK. DO NOT DISTURB THE EXISTING DEPARTMENTS IN THE EXISTING BUILDING COMPLEX.
- N. UTILITY OUTAGES: NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY (POWER, TELE, NET) OUTAGE, NOTIFY AND OBTAIN APPROVAL IN WRITING OF SAID OUTAGE FROM THE FACILITY. NO OUTAGE SHALL BE ACCOMPLISHED PRIOR TO THE RECEIPT OF APPROVAL. CONTRACTOR SHALL LOCK-OUT AND RED-TAG THE APPROPRIATE CIRCUIT BREAKER, SWITCH, ETC. RED-TAG SHALL INDICATE WHEN THE OUTAGE WILL BE TERMINATED, AND A TELEPHONE NUMBER TO CONTACT REGARDING THIS OUTAGE. THE TAG SHALL ALSO WARN PEOPLE NOT TO RE-ENERGIZE THE CIRCUIT SYSTEM BECAUSE OF POTENTIAL DANGER TO PERSONNEL AND EQUIPMENT. ALL WORK ASSOCIATED WITH ANY POWER OUTAGES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS.
- O. EXISTING WIRING WHERE SHOWN ON THE DRAWINGS IS BASED ON AVAILABLE RECORD DRAWINGS AND FIELD INFORMATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.

SHEET NOTES

1. PROVIDE BLANK COVERPLATE ON DEMOLISHED OUTLET.

EQUIPMENT LEGEND	
MV	MICROWAVE
DW	DISHWASHER
RF	REFRIGERATOR
CM	COFFEE MAKER
WC	WARM. CAB.



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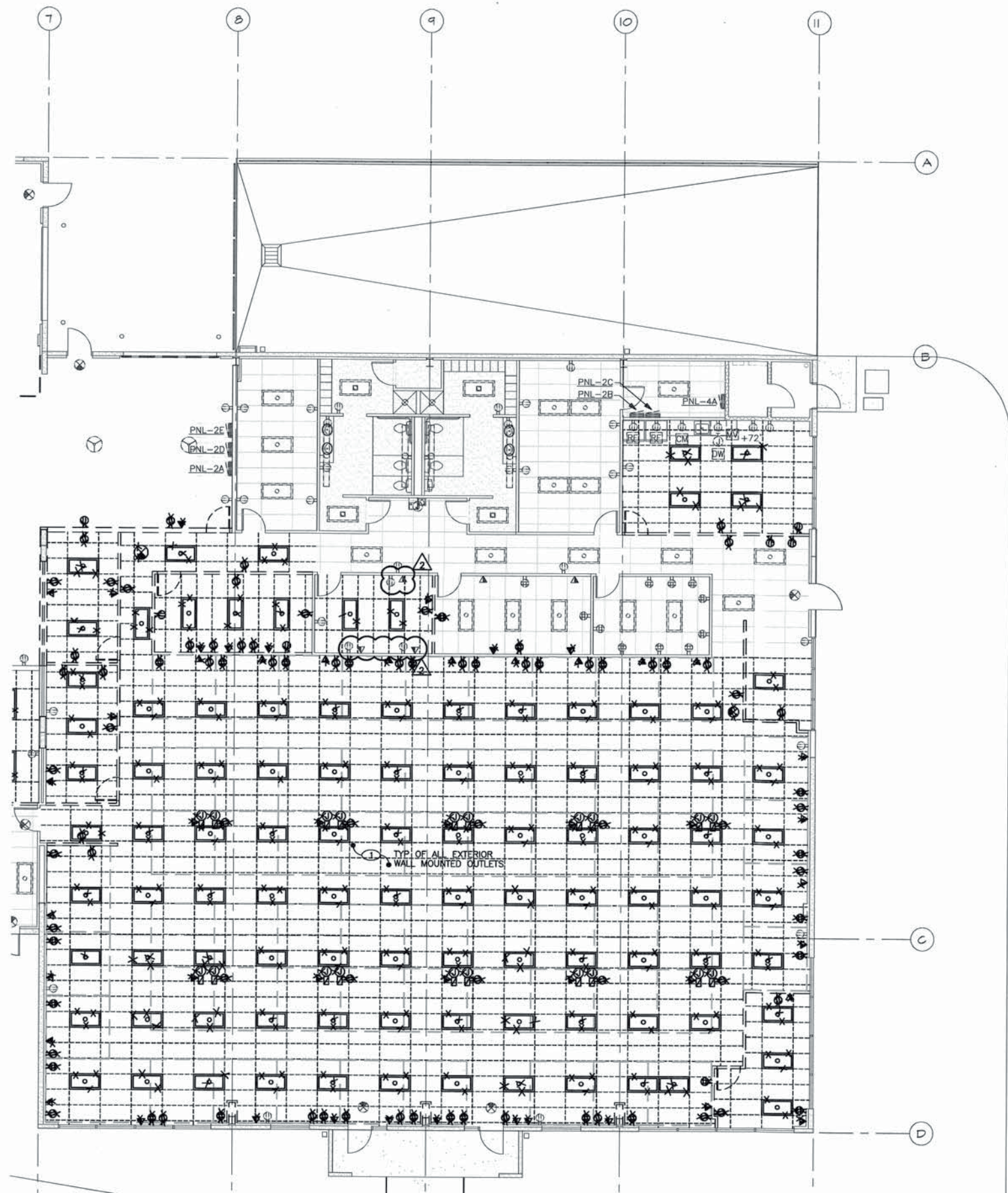
PERMIT SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER: 10009
PLOT DATE: 09.15.10
DRAWN:
APPROVED:
REVISIONS:
08.12.2011 - ADDED DATA
08.18.2011 - ASI 3

FIRST FLOOR
PLAN - DEMO
WEST -
LIGHTING-POWER

E2.1DA



1 FIRST FLOOR PLAN - DEMO EAST - LIGHTING-POWER
SCALE: 1/8" = 1'-0"



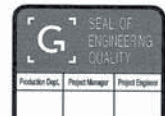
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- REMOVE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT AND DEVICES BACK TO THE EXISTING HOMERUN FROM WHICH THEY ARE FED OR THE NEAREST ACTIVE DEVICE THAT IS TO REMAIN. REMOVE ALL OLD TYPE WIRING IF IT IS NOT RATED FOR 90°C.
- IF POSSIBLE, EXISTING BRANCH CIRCUIT HOMERUN CONDUITS AND WIRES ARE TO REMAIN AND BE REUSED IN THE NEW CONSTRUCTION PHASE OF WORK. DOWNSTREAM BRANCH CIRCUIT CONDUITS AND WIRING SERVING EXISTING-TO-BE-REMOVED EQUIPMENT, RECEPTACLES AND LUMINAIRES ARE TO BE REMOVED. INTENT IS TO REUSE THE MAIN INFRASTRUCTURE AND REMOVE ALL THE BRANCH CIRCUITING THAT WILL NO LONGER BE USED. REMOVE EXISTING HOMERUNS BACK TO PANEL IF THEY WILL NOT BE USED AT THE COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL VERIFY CIRCUITS WITH TRACING DEVICE AND LABEL CIRCUITS AVAILABLE AT EACH J-BOX, MODIFY DRAWINGS AS REQUIRED TO DOCUMENT ACTUAL CIRCUITING.
- DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN ITEMS.
- ALL REMOVED ELECTRICAL MATERIAL INCLUDING WIRING, RACEWAYS, OUTLETS, DEVICES, SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE.
- ALL SALVAGED LUMINAIRES, EXIT SIGNS, PANELS, DISTRIBUTION PANELS, TRANSFORMERS, AND POWER BUSWAY SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER TO OWNER'S STORAGE SITE. IF NOT TO BE RETAINED THEN THEY SHALL BECOME THE PROPERTY OF THE OWNER UNLESS OWNER DIRECTS OTHERWISE.
- DAMAGE TO OTHER TRADE'S WORK AS A RESULT OF THIS WORK IS TO BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK. ALL ASSOCIATED DEMOLITION COSTS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF DISCERNIBLE CONDITIONS, WHETHER OR NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.
- THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK. DO NOT DISTURB THE EXISTING DEPARTMENTS IN THE EXISTING BUILDING COMPLEX.
- UTILITY OUTAGES: NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY (POWER, TELE, NET) OUTAGE, NOTIFY AND OBTAIN APPROVAL IN WRITING OF SAID OUTAGE FROM THE FACILITY. NO OUTAGE SHALL BE ACCOMPLISHED PRIOR TO THE RECEIPT OF APPROVAL. CONTRACTOR SHALL LOCK-OUT AND RED-TAG THE APPROPRIATE CIRCUIT BREAKER, SWITCH, ETC. RED-TAG SHALL INDICATE WHEN THE OUTAGE WILL BE TERMINATED, AND A TELEPHONE NUMBER TO CONTACT REGARDING THIS OUTAGE. THE TAG SHALL ALSO WARN PEOPLE NOT TO RE-ENERGIZE THE CIRCUIT SYSTEM BECAUSE OF POTENTIAL DANGER TO PERSONNEL AND EQUIPMENT. ALL WORK ASSOCIATED WITH ANY POWER OUTAGES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS.
- EXISTING WIRING WHERE SHOWN ON THE DRAWINGS IS BASED ON AVAILABLE RECORD DRAWINGS AND FIELD INFORMATION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.

SHEET NOTES

- PROVIDE BLANK COVERPLATE ON DEMOLISHED OUTLET.

EQUIPMENT LEGEND	
MV	MICROWAVE
DW	DISHWASHER
RF	REFRIGERATOR
CM	COFFEE MAKER
WC	WARM. CAB.



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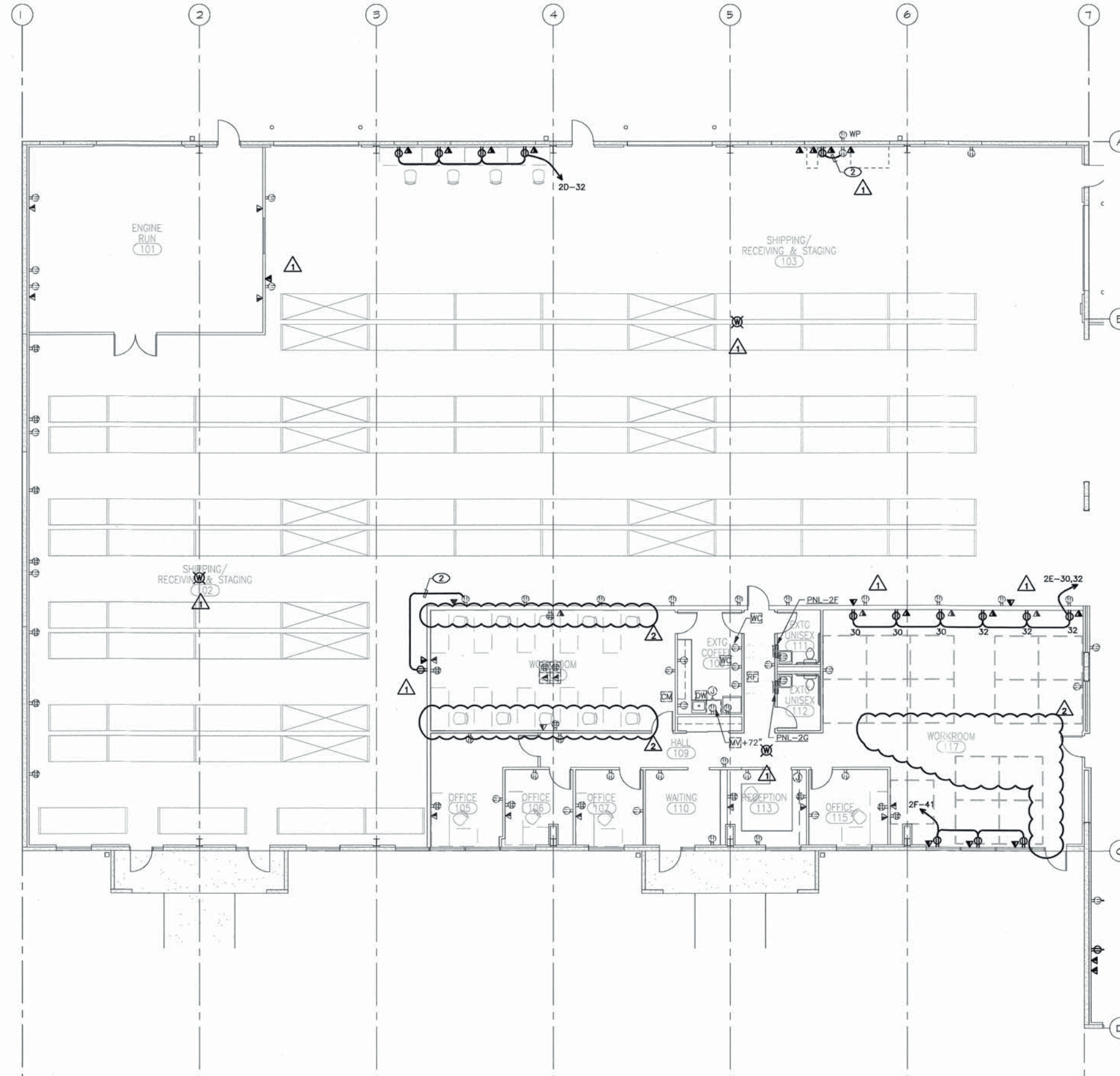
PERMIT SET
INSITU - IHOP ILC
118 EAST COLUMBIA RIVER WAY
BINGEN, WA 98672

INSITU

PROJECT NUMBER:	10009
PLOT DATE:	09.15.10
DRAWN:	
APPROVED:	
REVISIONS:	
Δ 08.12.2011 - ADDED DATA	
Δ 08.18.2011 - ASI 3	

FIRST FLOOR
PLAN - DEMO
EAST -
LIGHTING-POWER

E2.1DB



1 FIRST FLOOR PLAN - WEST POWER AND SIGNAL
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

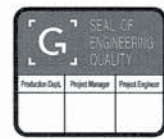


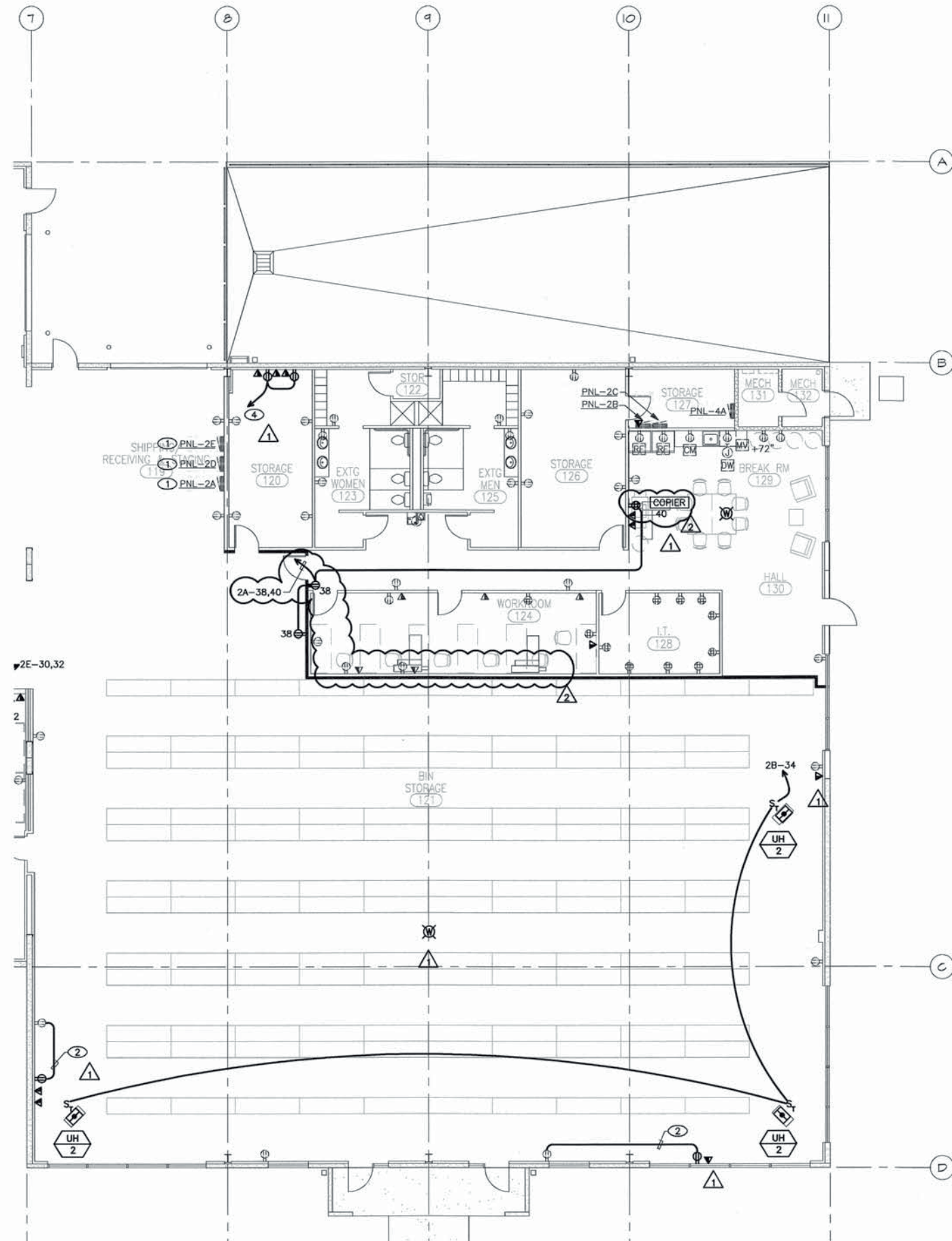
GENERAL NOTES

- REFER TO SHEET E0.1 FOR ADDITIONAL PROJECT INFORMATION.
- REFER TO PANEL SCHEDULES ON SHEETS E0.3 FOR ADDITIONAL CIRCUITING INFORMATION.

SHEET NOTES

- OWNER TO PROVIDE PROTECTIVE CAGE OR BARRIER AROUND PANELS.
- INTERCEPT AND EXTEND CIRCUITING AS REQUIRED.
- WIRELESS ACCESS POINT TO BE SURFACE MOUNTED TO BEAM ABOVE.
- PROVIDE 1-CIRCUIT HOMERUN TO SAME PANEL THAT SERVES ADJACENT RECEPTACLES IN STORAGE 120.





1 FIRST FLOOR PLAN - EAST POWER AND SIGNAL
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

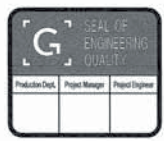


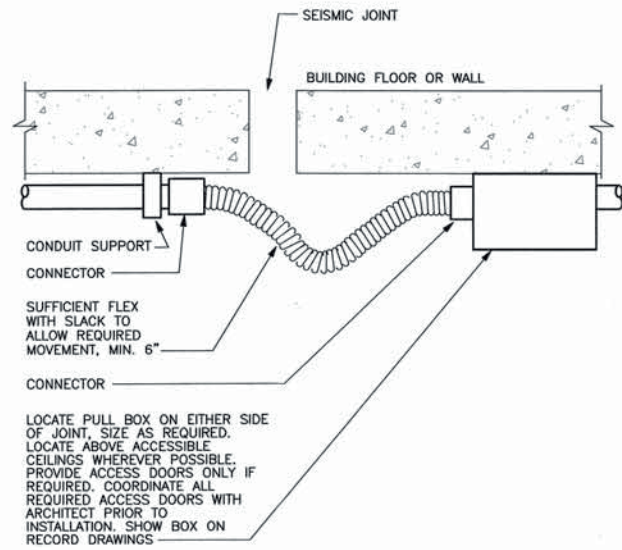
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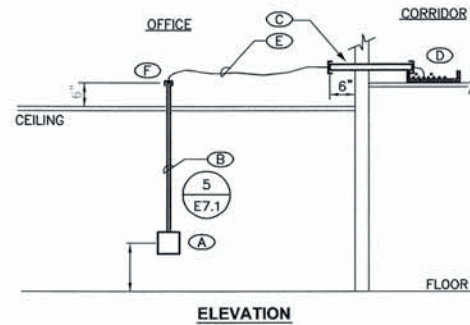
GENERAL NOTES:

- TYPICAL FOR CONDUITS CROSSING BUILDING SEISMIC AND EXPANSION JOINTS.
- NOT SHOWN ON ELECTRICAL PLANS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF SEISMIC/EXPANSION JOINTS.
- VERIFY POTENTIAL RANGE OF MOVEMENT WITH ARCHITECT & STRUCTURAL ENGINEER.

CONDUIT CROSSING SEISMIC EXPANSION JOINT

SCALE: NONE

16140-23



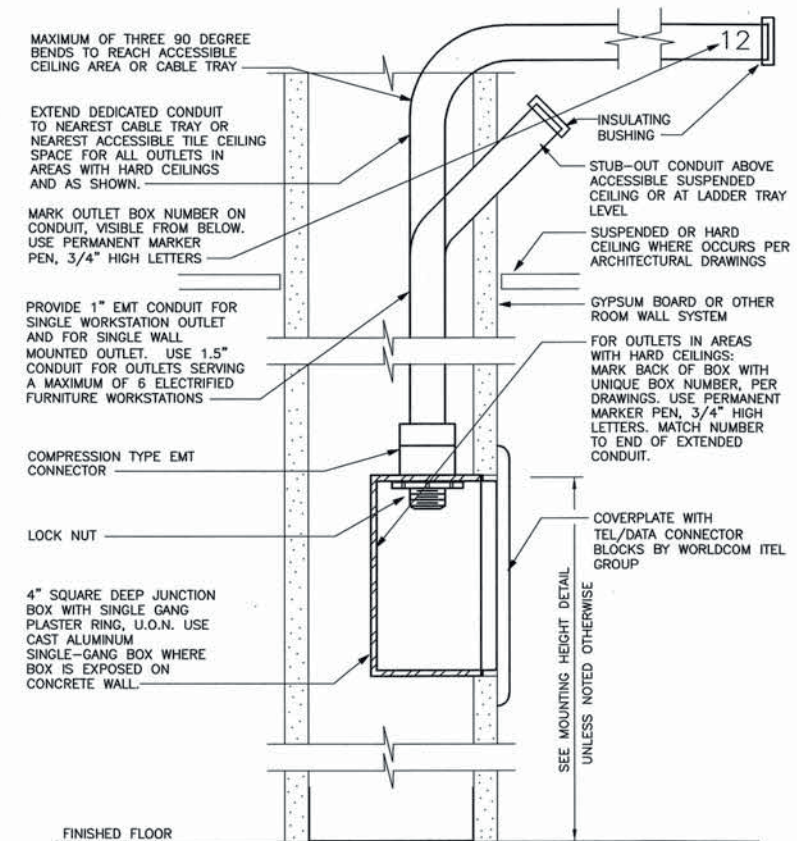
DETAIL NOTES

- TELECOM JUNCTION BOX AND CONDUIT PER DETAIL.
- STUB EMPTY CONDUIT CONTAINING PULL LINE TO A POINT ABOVE AN ACCESSIBLE CEILING. TYPICAL MOUNTING HEIGHT UNLESS OTHERWISE NOTED.
- 2" EMPTY CONDUIT LOCATED APPROXIMATELY 15'-0" O.C. THRU FIRE RATED WALLS, SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS.
- COMMUNICATION CABLE TRAY.
- TELEPHONE AND DATA CABLE FURNISHED AND INSTALLED UNDER ANOTHER CONTRACT.
- PROVIDE INSULATED BUSHING ON CONDUIT END.

TELE/DATA OUTLET INSTALLATION

SCALE: NONE

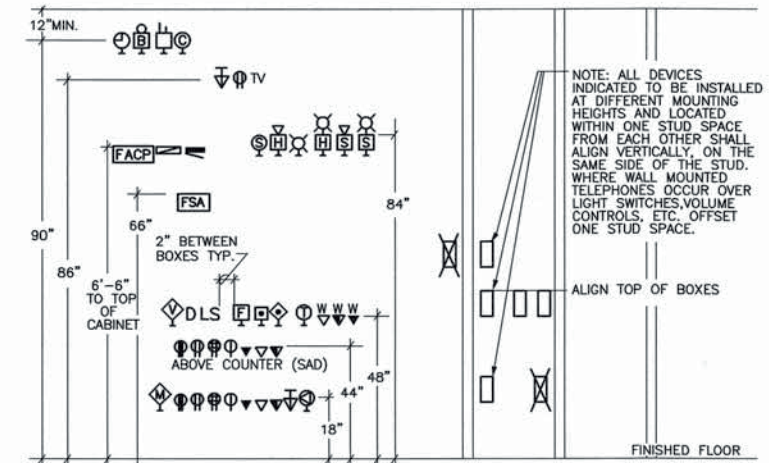
16140-06



TELEPHONE DATA OUTLETS

SCALE: NONE

16140-02



GENERAL NOTES

- HEIGHTS SHOWN ARE TYPICAL TO TOP OF BOX, UNLESS OTHERWISE NOTED.
- WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED VERTICALLY BETWEEN TOP OF DOOR TRIM AND CEILING LINE AND CENTERED HORIZONTALLY ON DOOR OPENING, UNLESS OTHERWISE NOTED.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES. INFORM ENGINEER AND ARCHITECT OF CONFLICTS.
- DO NOT MOUNT THERMOSTATS OR TEMPERATURE SENSORS ABOVE DIMMERS. INFORM ENGINEER OF CONFLICTS.

ELECTRICAL, TELECOM & SIGNAL SYS. DEVICE MOUNTING HEIGHTS & ALIGN.

SCALE: NONE

16140-01

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GREGORY S. RICHARDS
REGISTERED PROFESSIONAL ENGINEER
EST. 1974
EXPIRES 06/13/2010

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PERMIT SET
INSITU - IHOP ILC
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DETAILS - ELECTRICAL



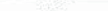
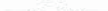
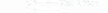
E7.1

HVAC BASIS OF DESIGN

VALVES & GAUGES	
SYMBOL	DESCRIPTION
	BALL VALVE
	SOLENOID CONTROL VALVE
	PRESSURE AND TEMP. RELIEF VALVE
	BUTTERFLY VALVE
	MOTORIZED BUTTERFLY VALVE
	GATE VALVE
	BALANCING VALVE
	ANGLE GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	NON-SLAM WAFER CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	DIAPHRAM VALVE
	LOCK SHIELD VALVE
	NEEDLE VALVE
	QUICK OPENING VALVE
	VENTURI FLOW METER
	PRESSURE GAUGE
	PRESS. GAUGE WITH COCK AND SNUBBER
	THERMOMETER

AAV	AUTOMATIC AIR VENT	ID	INSIDE DIAMETER
ABV	ABOVE	IN	INCHES)
AC	AIR CONDITIONING	IPLV	INTEGRATED PART LOAD VALUE
ACCEPT			
ACU	AIR CONDITIONING UNIT		
AD	ACCESS DOOR		
ADD	ADDITION	JB	JUNCTION BOX
AF	AFTER FILTER	KW	KILOWATT
AFT	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AFMS	AIR FLOW MEASURING STATION		
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	L	LENGTH
AG	AIR GAP	LA	LEAVING AIR TEMPERATURE
AHJ	AUTHORITY HAVING JURISDICTION	LBS	POUNDS
AHU	AIR HANDLING UNIT	LDB	LEAVING DRY BULB
AMB	AMBIENT	LF	LINEAR FEET
A	AMPERE	L	LOW PRESSURE
AP	ACCESS PANEL	LPC	LOW PRESSURE CONDENSATE
APPROX	APPROXIMATELY	LPS	LOW PRESSURE STEAM
ARCH	ARCHITECT	LWB	LEAVING WET BULB
ARI	AMERICAN REFRIGERATION INSTITUTE	LWT	LEAVING WATER TEMPERATURE
AS	AIR SEPARATOR	M	MOTOR
AUX	AUTOMATIC	M	MIXED AIR
	AUXILIARY	MAD	MIXED AIR DAMPER
		MAX	MAXIMUM
B	BOILER	MBH	THOUSAND BTU PER HOUR
BBD	BOILER BLOW DOWN	MECH	MECHANICAL CONTRACTOR
BOD	BACKFLOW DAMPER	MCA	MECHANICAL CIRCUIT CAPACITY
BEL	BELAKE	MCC	MOTOR CONTROL CENTER
BHP	BRAKE HORSEPOWER	MDC	MOTORED DAMPER
BHT	BASBOED HEATER	MECH	MECHANICAL
BMS	BUILDING MANAGEMENT SYSTEM	MERV	MINIMUM EFFICIENCY RATING VALUE
BOD	BOTTOM OF DUCT	MANUF	MANUFACTURER
BOTTOM	BOTTOM OF PIPE	MIN	MINIMUM
BFP	BACKFLOW PREVENTER	MOCP	MAXIMUM OVER CURRENT PROTECTION
BGSM	BASEMENT	MPC	MEDIUM PRESSURE CONDENSATE
BT	BRITISH THERMAL UNIT	MP	MEDIUM PRESSURE STEAM
BTUH	BTU PER HOUR	MY	MANUAL AIR VENT
BV	BALL VALVE OR BALANCING VALVE	(N)	NEW
BTY	BUTTERFLY VALVE	N/A	NOT APPLICABLE
		NC	NORMALLY CLOSED
C	COMMON, CONDENSATE OR CONDUIT	NC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER OR NORMALLY OPEN
CAP	CONSTANT AIR VOLUME	NOM	NOMINAL
CB	CHILLED BEAM	NPSM	NET POSITIVE SUCTION HEAD
CC	COOLING COIL OR CONTROLS CONTRACTOR	NTS	NOT TO SCALE
CD	CONDENSATE DRAIN		
CEG	CEILING EXHAUST GRILLE	OD	OUTSIDE AIR DAMPER
CEH	CEILING EXHAUST REGISTER	OAT	OUTSIDE AIR TEMPERATURE
CFF	CAP FOR FUTURE	OBD	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CFM	CUBIC FEET PER SECOND	OUTS	OUTSIDE DIAMETER
COWR	CONDENSER WATER RETURN	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
COWS	CONDENSER WATER SUPPLY	OFOI	OWNER FURNISHED OWNER INSTALLED
CHW1	CHILLED WATER RETURN	OPER	OPERATING
CHWS	CHILLED WATER SUPPLY	OSA	OUTSIDE AIR
CH	CHILLER	OV	OUTLET VELOCITY
CHV	CHECK VALVE		
CL	CENTERLINE		
CLG	CEILING	P	PUMP OR PRESSURE OR POLE
CL	CLEANOUT	PC	PUMPED CONDENSATE
COLUMN	COLUMN	PD	PRESSURE DROP
COMP	COMPRESSOR	PF	PREFILTER
CONC	CONCRETE	PG	PIPE GUIDE OR PRESSURE GAUGE
CONC	CONCRETE	SHA	SHAFT

- I. OUTDOOR DESIGN TEMPERATURE
 - A. SUMMER: 93°F db / 69°F wb
 - B. WINTER: 13° F
- II. INDOOR DESIGN TEMPERATURE
 - A. ALL AREAS
 - COOLING: 73° F ± 2° F
 - HEATING: 68° F ± 2° F
- III. VENTILATION
 - A. OFFICE: 20 CFM/PERSON
 - B. CONFERENCE: 20 CFM/PERSON
 - C. WAREHOUSE: 0.05 CFM/SQ. FT.
- IV. BUILDING ENVELOPE
 - A. GLAZING: VERTICAL:
 - U = 0.60, SC = 0.65
 - B. GLAZING: SKYLIGHTS:
 - U = 1.3, SC = 0.65
 - C. WALL CONSTRUCTION: EXISTING MASONRY
 - D. ROOF: U = 0.04
- V. INTERNAL HEAT GAIN INFORMATION
 - A. LIGHTING:
 - 1. STORAGE SPACES - 0.5W/SQ FT
 - 2. ALL OTHER AREAS - 1.2W/SQ FT
 - B. OCCUPANTS: 245 BTUH SCHEDULE / 250 LATENT
- VI. DUCTWORK DESIGN CRITERIA - NEW ADDITION
 - A. ALL DUCTWORK: .08" WG LOSS/100 FT
 - B. SUPPLY AIR TEMPERATURE: 55°F

HYDRONIC	
SYMBOL	DESCRIPTION
 CHWS	CHILLED WATER SUPPLY
 CHWR	CHILLED WATER RETURN
 HWS	HEATING WATER SUPPLY
 HWR	HEATING WATER RETURN
 BBD	BOILER BLOW DOWN
 CWS	CONDENSER WATER SUPPLY
 CWR	CONDENSER WATER RETURN
 HPS	HIGH PRESSURE STEAM
 MPS	MEDIUM PRESSURE STEAM
 LPS	LOW PRESSURE STEAM
 HPC	HIGH PRESSURE CONDENSATE
 MPC	MEDIUM PRESSURE CONDENSATE
 LPC	LOW PRESSURE CONDENSATE
 C-PC	GRAVITY OR PUMPED CONDENSATE
 CD	CONDENSATE DRAIN
 CR	CONDENSATE RETURN
 SV	STEAM VENT PIPE
	STEAM TRAP
SYMBOL (DOUBLE LINE)	DESCRIPTION
 RHT	RADIANT HEATER
 BHT	BASEBOARD HEATER
 CC	COOLING COIL
 HC	HEATING COIL
 CB	CHILLED BEAM

MISCELLANEOUS	
SYMBOL	DESCRIPTION
 RD	REFRIGERANT DISCHARGE
 RS	REFRIGERANT SUCTION
	PNEUMATIC CONTROL VALVE
 A	AIR LINE

CONT	CONTINUATION	PHC	PREHEAT COIL
CONTR	CONTRACTOR	PLBG	PLUMBING
COOP	COEFFICIENT OF PERFORMANCE	PLB	POINT CONNECTION
CP	CONTROL PANEL OR CONDENSATE PUMP	PRESS	PRESSURE
CPF	CHEMICAL POT FEEDER	PRV	PRESSURE REDUCING VALVE
CR	CONDENSATE RETURN	PS	PRESSURE SENSOR
CRG	CEILING RETURN REGISTER	PSI	POUNDS PER SQUARE INCH
CRS	CEILING RETURN GRILLE	PSI	PSI ASSAULT
CS	CIRCUIT SETTER	PSIG	PSI GAUGE
CSD	CEILING SUPPLY DIFFUSER	PV	PLUG VALVE
CT	CONNECT TO EXISTING	QTY	QUANTITY
CU	CUBIC FEET	R	RISE/RS, RELOCATE OR RISE
CU IN	CUBIC INCH	RAD	RETURN AIR DAMPER
CV	CONSTANT VOLUME OR CONTROL VALVE	RD	OR ROOF DRAIN
CW	COLD WATER	REF	ROOFTOP EXHAUST FAN
		REFRIG	REFRIGERATION
		REJ	REJECTION
		REQ'D	REQUIRED
		REV	REVISE, REVISION OR REVOLUTIONS
		RETUR	RETURN FAN
		RH	RELATIVE HUMIDITY
		RHC	REHEAT COIL
		RH	RADIANT HEATER
		(RL)	RELOCATE
		ROOM	ROOM
		RP	REVOLUTIONS PER MINUTE
		RPM	REFRIGERANT SUCTION
		RTU	ROOFTOP UNIT
		S	SUPPLY OR SLOPE
		SA	SUPPLY AIR
		SCFM	CFM, DYNAMIC CONDITIONS
		SD	SMOKE DAMPER
		SEER	SEASONAL ENERGY EFFICIENCY
		SEN	SENSIBLE
		SP	SUPPLY FAN OR SQUARE FEET
		SQ	SQUARE INCH COCK
		SN	SHEET NOTE
		SP	STATIC PRESSURE
		SPD	SPLIT/DAMP
		SPEC	SPECIFICATIONS
		IN	INCH
		STR	STRANGER OR SOUND TRAP
		STD	STANDARD
		STRUC	STRUCTURAL
		SV	STEAM VENT
F	FAHRENHEIT OR FLITER	T	THERMOMETER OR THERMOSTAT
FPB	FAN POWERED BOX	TC	TEMPERATURE CONTROL PANEL
FC	FLEXIBLE CONNECTION OR FAL CLOSED	TCH	TEMPERATURE
FCU	FAN COIL UNIT	TEMP	TEMPERATURE
FID	FIRE DAMPER	TEMP	TEMPERATURE IMPROVEMENT
FIN	FINAL FILTER OR FINISHED FLOOR	TRG	TRANSFER GRILLE
FLR	FLOOR	TRS	TRANSFER SENSOR
FO	FALL OPEN	TST	TOTAL STATIC PRESSURE
FPI	FPS PER INCH	TS	TEST PANT OR TEST TEE
FFM	FEET PER MINUTE	TXV	THERMAL EXPANSION VALVE
FPS	FEET PER SECOND	(TYP)	TYPICAL
FPS	FIRE/SMOKE DAMPER		
FSD	FOOT OR FEET		
FT			
G	GAS	U	HEAT TRANSFER COEFFICIENT
GA	GAUGE, GAGE	UC	UNDERGROUND
GAL	GALLONS	UH	UNIT HEATER
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GLV	GLOBE VALVE		
GN	GENERAL NOTE	V	VENT OR VOLT OR VELOCITY
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
GRD	GROUND	VBC	VACUUM BREAKER
GV	GATE VALVE	VD	VOLUME DAMPER
		VEL	VELOCITY
		VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
		VFM	VENTURI FLOW METER
		VOL	VOLUME
		VTR	VENT THROUGH ROOF
		W	WASTE OR WIDTH OR WATTS
		W/	WITH
		W/O	WITHOUT
		WC	WET BULB TEMPERATURE
		WC	WATER COLUMN
		WEG	WALL EXHAUST GRILLE
		W	WATER GAGE
		WP	WORKING PRESSURE
		WPD	WATER PRESSURE DROP
		WRR	WALL RETURN REGISTER
		WSP	WATER-SOURCE HEAT PUMP
		WR	WALL SUPPLY REGISTER
		WT	WEIGHT
H	HEIGHT	XMR	TRANSFORMER
HB	HOSE BIBB		
HC	HEATING COIL		
HD	HEAD		
HOR	HORIZONTAL		
HPS	HIGH PRESSURE		
HP	HORSEPOWER		
HP	HEAT PUMP		
HP	HIGH PRESSURE/ CONDENSATE		
HPS	HIGH PRESSURE STEAM		
HRS	HOURS		
HRR	HEAT RECOVERY UNIT		
HS	HUMIDITY SENSOR		
HTR	HEATER		
HV	HEATING VALVE		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
HW	HOT WATER		
HWR	HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
HX	HEAT EXCHANGER		
HZ	FREQUENCY (HERTZ)	Z	ZONE

HVAC DRAWING LIST

M0.1	LEGENDS AND ABBREVIATIONS	MECHANICAL
M0.2	SCHEDULES	- MECHANICAL
M0.3	NREC FORMS	- MECHANICAL
M1.1DA	FIRST FLOOR PLAN	- DEMO WEST - MECHANICAL
M1.1DB	FIRST FLOOR PLAN	- DEMO EAST - MECHANICAL
M2.1	FIRST FLOOR PLAN	- WEST MECHANICAL
M2.1B	FIRST FLOOR PLAN	- EAST MECHANICAL
M4.1	FIRST FLOOR ZONING	PLAN - MECHANICAL
M7.1	DETAILS	- MECHANICAL

	
PROJECT NUMBER:	10009
PLOT DATE:	09.15.10
DRAWN:	
APPROVED:	
REVISIONS:	
LEGENDS AND ABBREVIATIONS MECHANICAL	

EXISTING TERMINAL / FAN POWERED UNIT SCHEDULE										
TAG	MFR & MODEL	INLET SIZE (IN)	AIRFLOW CFM		AIR P.D. (IN.WG.)	ELECTRIC REHEAT COIL				NOTES
			MAX	MIN		NO. OF STAGES	MAX (KW)	LAT (°F)		
TU-7	-	8	470	170	0.5	2	4	-	1	
TU-14	-	10	790	200	0.5	2	3	-	1	
FPB-3	-	10	1080	261	0.5	2	4	-	1	
NOTES										
1. REBALANCE EXISTING TERMINAL / FAN POWERED UNIT.										

EXISTING EQUIPMENT SCHEDULE						
TAG	EQUIPMENT TYPE	LOCATION	AIR FLOW CFM	INPUT (MBH)	OUTPUT (MBH)	NOTES
DF-1	DUCT FURNACE	SHIPPING/RECEIVING	1215	100	80	
VU-1	VENTILATION UNIT	SHIPPING/RECEIVING	1215	-	-	
UH-1	UNIT HEATER	SHIPPING/RECEIVING	980	75	60	
NOTES						

MECHANICAL COMBUSTION AIR CALCULATION		
TAG	EQUIPMENT TYPE	INPUT RATING (MBH)
(E)DF-1	DUCT FURNACE	100
(E)UH-1	UNIT HEATER	75
(E)UH-1	UNIT HEATER	75
(E)UH-1	UNIT HEATER	75
(E)UH-1	UNIT HEATER	75
UH-2	UNIT HEATER	50
UH-2	UNIT HEATER	50
UH-2	UNIT HEATER	50
TOTAL FUEL INPUT LOAD (MBH)		550
0.35 CFM PER 1,000 BTU/H REQUIRED BY 2009 IMC WITH WASHINGTON AMENDMENTS		0.35x550
TOTAL CFM REQUIRED		193

GAS UNIT HEATER SCHEDULE														
TAG	MFR & MODEL	AREA SERVED	TYPE	AIR FLOW (CFM)	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	FLUE SIZE (IN.)	ELECTRICAL			UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
									V/PH	FLA (A)	MOCP (A)			
UH-2	REZNOR F-50	BIN STORAGE	UNIT	650	50	40	80	4	115/1	1.3	-	13.5x13.5x30	100	1,2,3,4
NOTES														
1. FUSED DISCONNECT PROVIDED BY ELEC CONTRACTOR.														
2. PROVIDE NATURAL GAS FUEL SUPPLY AT 5" WC.														
3. HEATING CAPACITY BASED ON 55°F EAT.														
4. SEE DETAIL 5/M7.1.														

DIFFUSER AND GRILLE SCHEDULE									
TAG	MFR	MODEL	DESCRIPTION	FACE TYPE	FACE SIZE (IN.)	COLOR (SEE NOTE #1)	MATERIAL	OBD	NOTES
A	TITUS	OMNI	SQUARE CEILING SUPPLY	PLAQUE	24 x 24	WHITE	STEEL	NO	2,3,4,5,6,7,8
B	TITUS	50F	RETURN/EXHAUST GRILLE	1/2x1/2x1/2 EGGRATE	24 x 24	WHITE	ALUMINUM	NO	2,3,4,5,6,7,8
X	-	-	EXISTING DIFFUSER/GRILLE	-	-	-	-	-	-
NOTES									
1. ANY GRILLE MOUNTED DIRECTLY ON EXPOSED DUCT SHALL MATCH COLOR OF DUCT (IF PAINTED) OR SHALL HAVE CLEAR ANODIZED FINISH (IF DUCT IS UNPAINTED).									
2. MAXIMUM TOTAL PRESSURE DROP SHALL BE 0.1" WG.									
3. MAXIMUM NC LEVEL SHALL BE 30.									
4. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.									
5. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.									
6. NECK SIZE AND CFM SHOWN ON PLANS (E.G. 12x12-A-400 REFERS TO TAG "A" WITH 12x12 NECK AND 400 CFM).									
7. PROVIDE MINIMUM 3"-HIGH RECTANGULAR/SQUARE TO ROUND TRANSITION AS REQUIRED. ROUND NECK AREA SHALL EQUAL OR EXCEED RECTANGULAR NECK AREA.									
8. SEE 3 / M7.1 AND 4 / M7.1 FOR TYPICAL CEILING DIFFUSER INSTALLATION DETAIL.									

OSA SCHEDULE													
						BASED ON 2009 IMC WITH WASHINGTON STATE AMENDMENTS - TABLE 403.3							
HVAC UNIT	ROOM NUMBER	ROOM NAME	ROOM TYPE	ARCHITECTURAL OCCUPANT COUNT	ROOM AREA (SQ. FT.)	OSA CFM PER PERSON	PEOPLE/1000 SQ. FT.	MAX. VENT OCCUPANT LOAD (1)	OSA CFM/SF	OSA CFM REQUIRED	OSA CFM PROVIDED		NOTES
VU-1	102/103/118	PALLET STORAGE/SHIP. RCVG.	WAREHOUSE		11180			0	0.05	559	560		
	120	BIN STORAGE	WAREHOUSE		6440			0	0.05	322	325		
TOTAL											881	885	
TU-1	104	MUSTANG	OFFICE	8	255	20		4		80	80		
TU-2	114	OFFICE	OFFICE	3	255	20		1.5		30	30		
TU-3	115	OFFICE	OFFICE	3	255	20		1.5		30	30		
TU-4	117	OFFICE	OFFICE	3	255	20		1.5		30	30		
TU-7	130	HALL	CORRIDOR		255			0	0.05	13	15		
TU-10	123	OFFICE	OFFICE	2	152	20		1		20	20		
TU-11	123	OFFICE	OFFICE	3	201	20		1.5		30	30		
	128	SERVER	STORAGE		150			0	0.05	8	10		
TU-12	119	STORAGE	STORAGE		228			0	0.15	35	35		
	122	EXTG. WOMENS LOCKER	LOCKER		75			0	0.5	38	40		
	124	EXTG. MENS LOCKER	LOCKER		75			0	0.5	38	40		
TU-13	126	STORAGE	STORAGE		288			0	0.15	44	45		
	123	OFFICE	OFFICE	7	259	20		3.5		70	70		
TU-14	129	BREAK ROOM	CONFERENCE	10	358	20		5		100	100		
FPB-3	116	OPEN OFFICE	OFFICE	4	430	20		2		40	40		
		OFFICE	OFFICE	1	430	20		0.5		10	10		
TOTAL											616	625	
NOTES:													
1. VENTILATION OCCUPANT LOAD BASED ON ONE-HALF THE ESTIMATED MAXIMUM OCCUPANT LOAD AS ALLOWED IN 2009 IMC WITH WASHINGTON STATE AMENDMENTS SECTION 403.3.													

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BINGEN, WA 98672

PROJECT NUMBER:		10009
PLOT DATE:		09.15.10
DRAWN:		
APPROVED:		
REVISIONS:		
SCHEDULES - MECHANICAL		

M0.2

COMPONENT	INFORMATION
THERMOSTAT DEADBAND CONTROL	5° FAHRENHEIT
THERMOSTAT AUTOMATIC SETBACK	NIGHT SETBACK AND 7 DIFFERENT DAY TYPES
SEALING DUCTWORK	COMPLY WITH STANDARD RS-18, EXTENT OF SEALING REQUIRED IS: STATIC PRESSURE: 1/2" TO 3" ; SEAL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS STATIC PRESSURE: ABOVE 3" ; SEAL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS
DUCT INSULATION	
SUPPLY AND RETURN	NOT WITHIN CONDITIONED SPACE: R-7
OUTSIDE AIR INTAKE	WITHIN CONDITIONED SPACE: R-7
SUPPLY AND RETURN, OUTSIDE AIR INTAKE	NOT WITHIN CONDITIONED SPACE; IN CONCRETE, IN GROUND: R-5.3
SUPPLY WITH SUPPLY AIR TEMP. <55° F. OR >105° F.	WITHIN CONDITIONED SPACE: R-3.3
PIPE INSULATION	PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE, 2004 EDITION, TABLE 14-6

1. DUCT INSULATION SHALL MEET THE REQUIREMENTS OF THE WASHINGTON STATE ENERGY CODE.

2. MECHANICAL SYSTEM CONTROLS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON STATE ENERGY CODE.

3. COMPLETION AND COMMISSIONING FOR MECHANICAL SYSTEMS.

A. RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF SYSTEM ACCEPTANCE PER WASHINGTON STATE ENERGY CODE (WSEC) SECTION 1416.1.

B. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER PER WSEC SECTION 1416.2.

C. ALL HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT NEBB OR AABC CERTIFIED TAB AGENCY. A WRITTEN BALANCE REPORT SHALL BE PROVIDED TO THE OWNER PER WSEC SECTION 1416.3.

D. HVAC CONTROL SYSTEMS SHALL BE TESTED, CALIBRATED AND ADJUSTED. SEQUENCES OF OPERATION SHALL BE TESTED TO ENSURE THAT THEY OPERATED IN ACCORD WITH SPECIFICATIONS AND APPROVED PLANS PER WSEC SECTION 1416.4.2. NECESSARY TESTS SHALL BE IDENTIFIED PER WSEC SECTION 1416.4.2.1. A PRELIMINARY COMMISSIONING REPORT OF TEST PROCEDURE AND RESULTS SHALL BE PREPARED PRIOR TO ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER WSEC SECTION 1416.4.2.2.1 AND 1416.4.2.3. A COMPLETE AND FINAL COMMISSIONING REPORT OF TEST PROCEDURES AND RESULTS SHALL BE FILED WITH THE OWNER PER WSEC SECTION 1416.4.2.2.2.

E. CONTRACTOR TO SATISFY ANY ADDITIONAL REQUIREMENTS FOUND IN SECTION 1416 OF THE WASHINGTON STATE ENERGY CODE.

Project Info	Project Address	118 E. Columbia River Way	Date	7/9/2010
		Bliss, Washington	For Building Dept. Use	
	Applicant Name:			
	Applicant Address:			
	Applicant Phone:			

Briefly describe mechanical system type and features.	
☒ Includes Plans	Drawings must contain notes requiring compliance with commissioning requirements - Section 1416

(See Decision Flowchart (over) for qualifications. Use separate MCH-300 for simple & complex systems.)

plans. For projects without plans, furnish the required information below.

Project Address 118 E Columbia River Way				Date 7/9/2010	
The following information is necessary to check a mechanical permit application for compliance with the mechanical requirements in the Washington State Non-residential Energy Code.					
Applicability (yes, no, n.a.)	Code Section	Component	Information Required	Location on Plans	Building Department Notes
HVAC REQUIREMENTS (Sections 1401-1424)					
	1411	Equipment performance			

		1411	Equipment performance		
n.a.	▼	1411.4	Pkg. elec. htg & clg.	Heat loss pumps on schedule	
yes	▼	1411.1	Minimum efficiency	Equipment schedule with type, capacity, efficiency	M0.2
n.a.	▼	1411.1	Combustion hlg.	Indicate intermittent ignition, flue/draft damper & jacket loss	

yes	1412.1	Temperature zones	Indicate locations on plans	M4.1	
n.a.	1412.2	Deadband control	Indicate 5 degree deadband minimum		
	1412.3	Humidity control	Indicate humidistat		

n.a.	1412.4.1	Dampers	Indicate damper location and auto. controls & max. leakage
n.a.	1412.4.2	Optimum Start	Indicate optimum start controls
n.a.	1412.5	Heat pump control	Indicate microprocessor on thermostat schedule
n.a.	1412.6	Combustion htg.	Indicate modulating or staged control
n.a.	1412.7	Balancing	Indicate balancing features on plans
n.a.	1412.8	Ventilation Control	Indicate demand control ventilation for high-occupancy areas
n.a.	1422	Thermostat interlock	Indicate thermostat interlock on plans
n.a.	1423	Economizers	Equipment schedule

n.a.	▼	1413.1	Air Econ Operation	Indicate 100% capability on schedule		
n.a.	▼	1413.1	Wtr Econ Operation	Indicate 100% capacity at 45 degF db & 40 deg F wb		
n.a.	▼	1413.2	Water Econ Doc	Indicate clg load & water econoe & clg tower performance		
n.a.	▼	1413.3	Integrated operation	Indicate capability for partial cooling		
n.a.	▼	1413.4	Humidification	Indicate direct evap or fog atomization w/ air economizer		

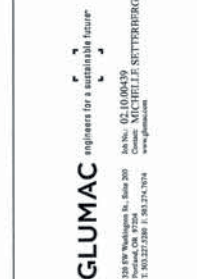
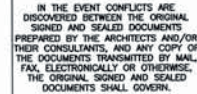
yes	▼	1414.1	Duct sealing	Indicate sealing necessary	M0.3	
yes	▼	1414.2	Duct insulation	Indicate R-value of insulation on duct	M0.3	
n.a.	▼	1415.1	Piping insulation	Indicate R-value of insulation on piping		

yes	▼	1416.2.1	Commissioning	Provide commissioning plan	M0.3
yes	▼	1416.2.2-3	Sys. Bal & Func. Test	Indicate air and water system balancing & functional testing	M0.3
yes	▼	1416.2.4	Commissioning	Indicate O&M manuals, record drawings, staff training	M0.3
yes	▼	1416.2.5	Comm. Report	Indicate requirements for prelim. & final commissioning report	M0.3
n.e.	▼	1434	Separate air sys.	Indicate separate systems on plans	
yes	▼		Mechanical Summary Form	Completed and attached. Equipment schedule with types, input/output, efficiency, cfm, hp, economizer	M0.3

	1440	Service water htg.
--	------	--------------------

n.a.	1442	Shut-off controls	Indicate automatic shut-off
n.a.	1443	Pipe Insulation	Indicate R-value of insulation on piping
n.a.	1452	Heat Pump COP	Indicate minimum COP of 4.0
n.a.	1452	Heater Efficiency	Indicate pool heater efficiency
n.a.	1453	Pool heater controls	Indicate switch and 65 degree control
n.a.	1454	Pool covers	Indicate vapor retardant cover
yes	1454	Pools 90+ degrees	Indicate R-12 pool cover

If no is circled for any question, provide explanation:



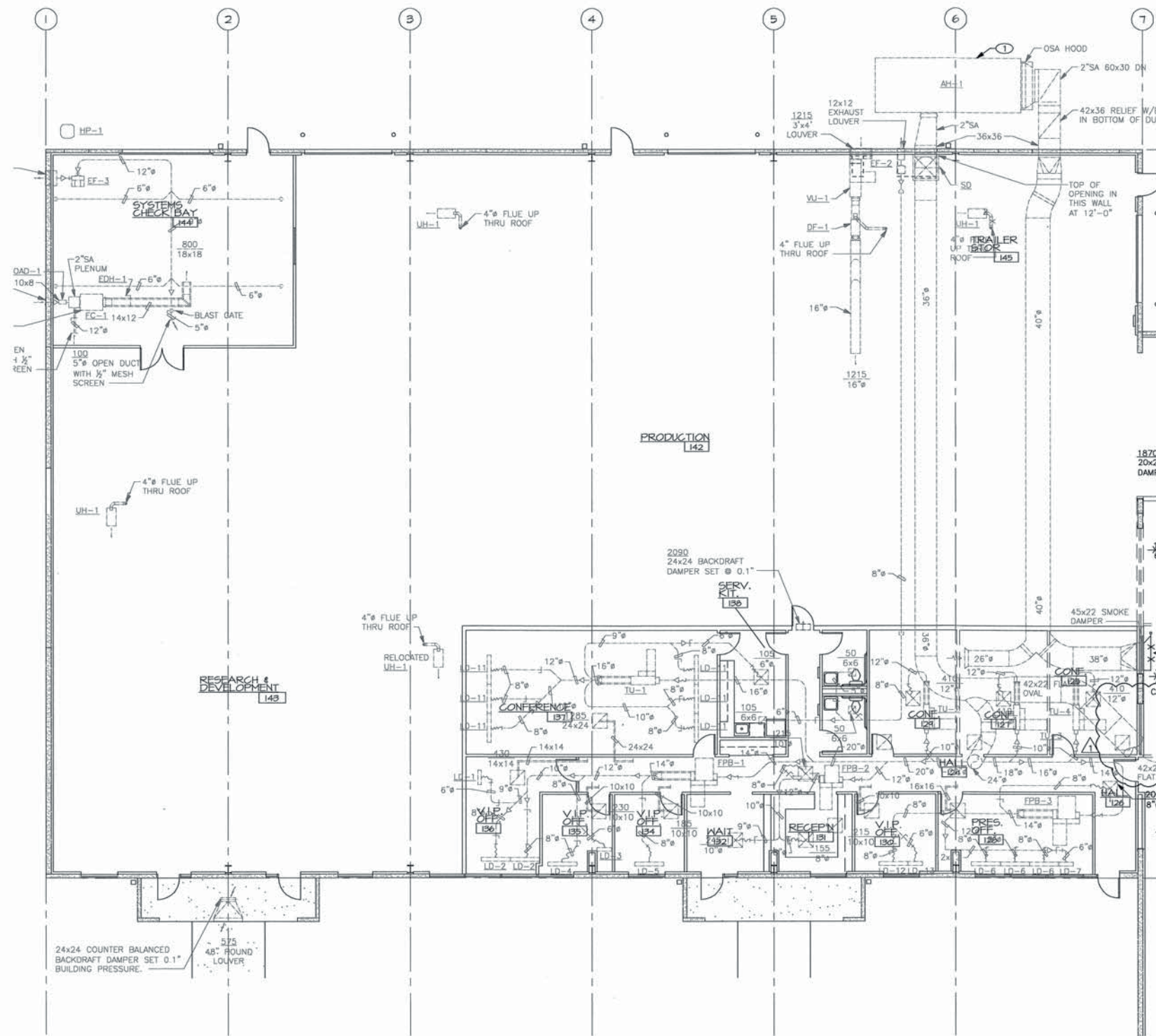
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NREC FORMS -
MECHANICAL

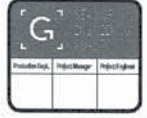
M0.3



SHEET NOTES

1. CLEAN ALL INTERNAL SURFACES AND PROVIDE NEW FILTERS FOR AH-1.

1 FIRST FLOOR PLAN - DEMO WEST - MECHANICAL
SCALE: 1/8"=1'-0"



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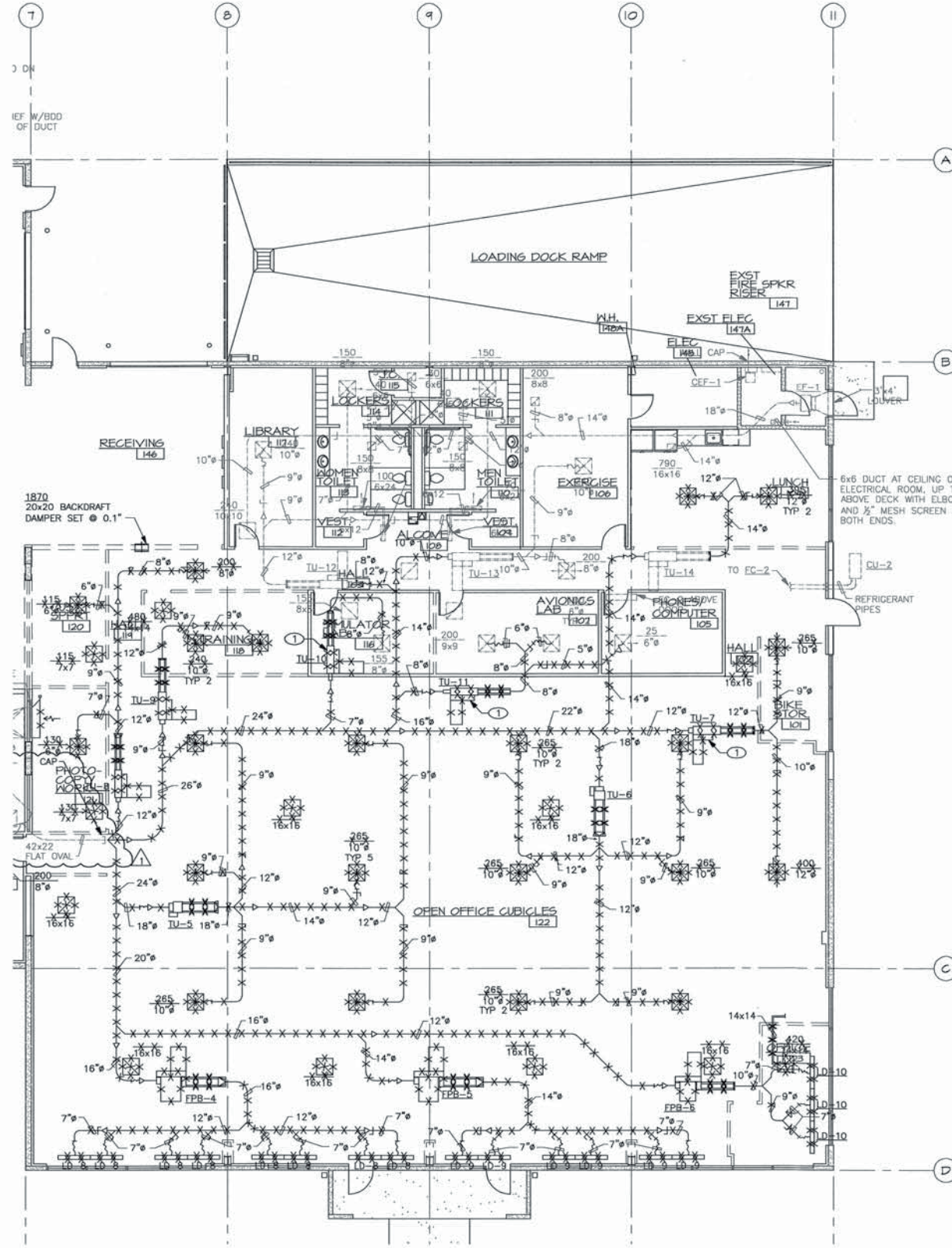
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12/20/10

FIRST FLOOR
PLAN - DEMO
WEST -
MECHANICAL

M1.1DA
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1 FIRST FLOOR PLAN - DEMO EAST - MECHANICAL
SCALE: 1/8"=1'-0"



SHEET NOTES
1. DEMOLISH AND SAVE FOR RELOCATION. FOR NEW LOCATIONS, SEE DRAWING M2.1B.

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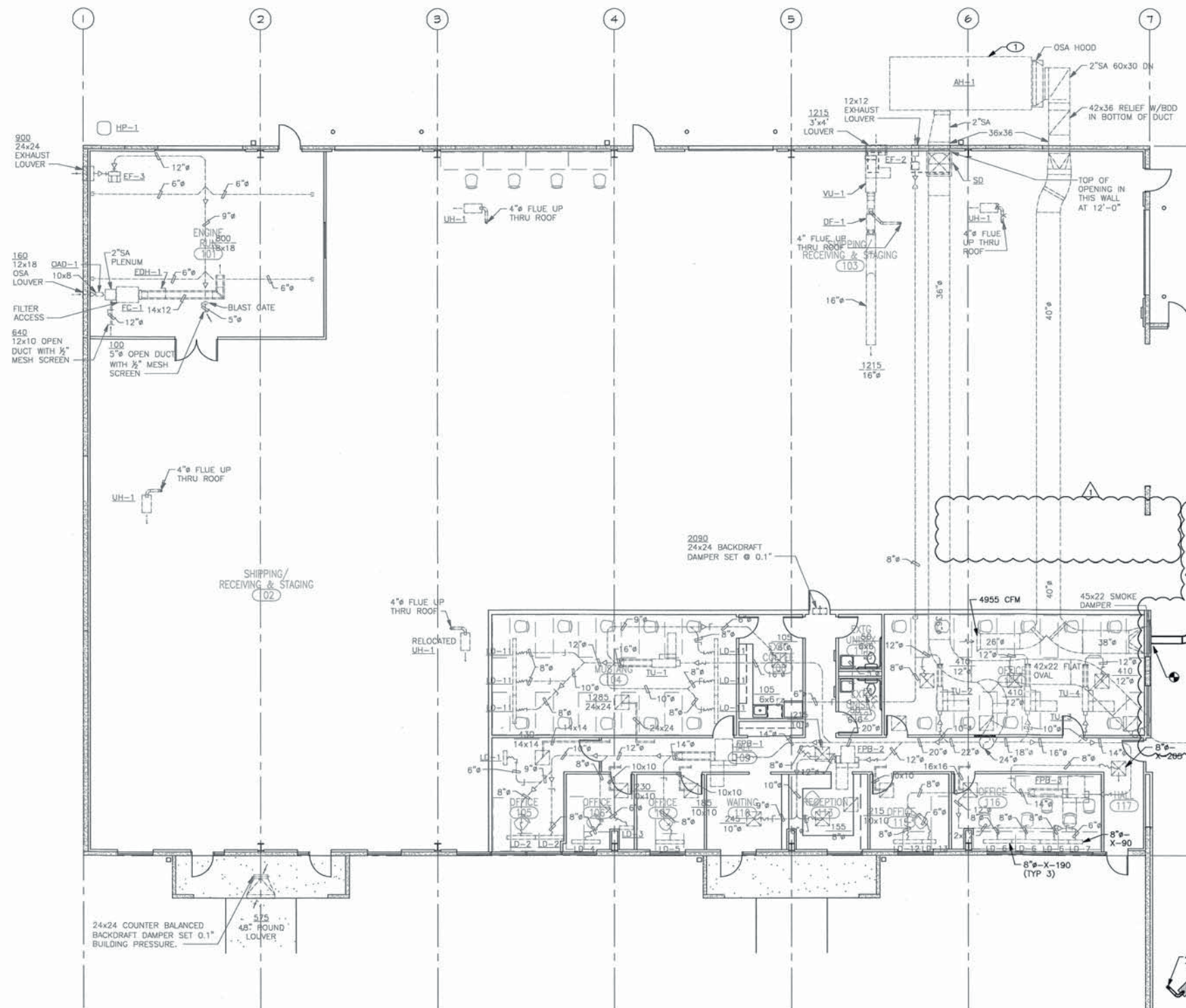
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1	OWNER CHANGE 12/20/10

FIRST FLOOR
PLAN - DEMO
EAST -
MECHANICAL

M1.1DB
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1 FIRST FLOOR PLAN - WEST MECHANICAL
SCALE: 1/8"=1'-0"



SHEET NOTES
1. REBALANCE EXISTING AH-1 TO THE FOLLOWING VALUES, SUPPLY AIR-7,765 CFM, RETURN AIR-5,920 CFM, AND OUTSIDE AIR-800 CFM.

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FIRST FLOOR
PLAN - WEST
MECHANICAL

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FIRST FLOOR
PLAN - EAST
MECHANICAL

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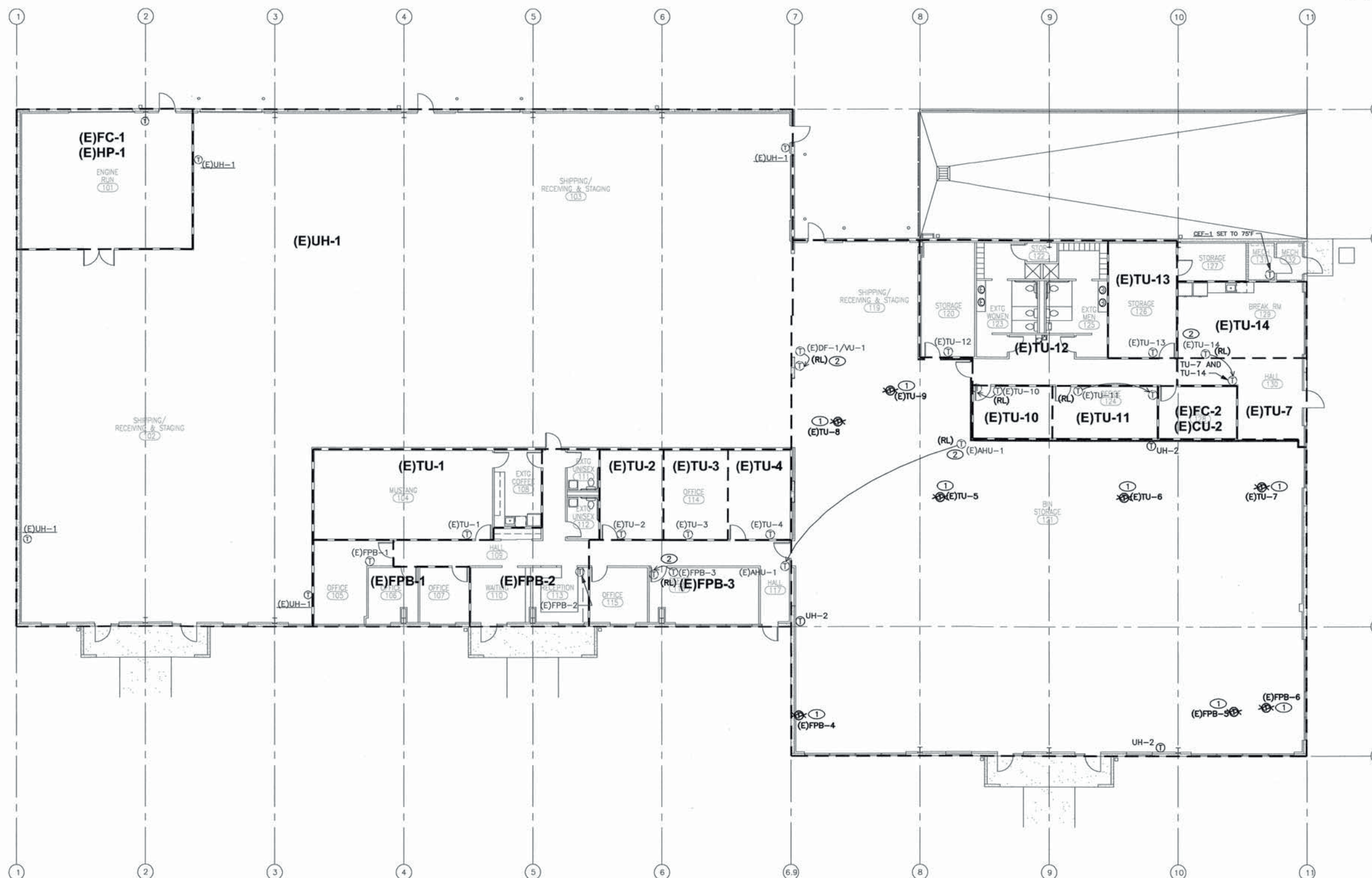


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FIRST FLOOR
ZONING PLAN
- MECHANICAL

M4.1

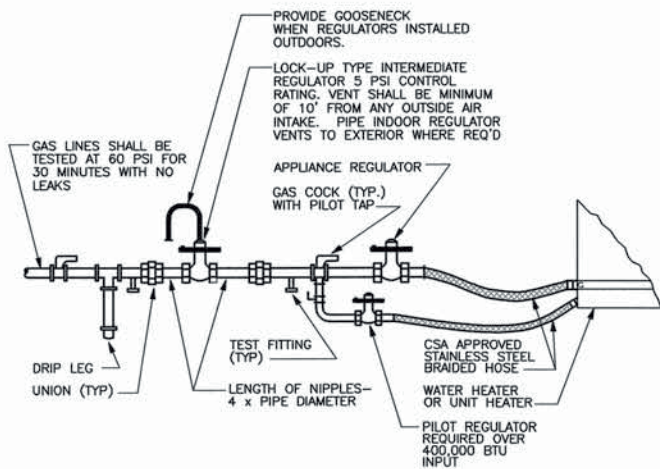
1. DEMOLISH THERMOSTAT AND ALL ASSOCIATED CONDUIT AND WIRING.
2. RELOCATE THERMOSTAT AS INDICATED.



1 FIRST FLOOR ZONING PLAN - MECHANICAL
SCALE: 3/32"=1'-0"



PLUMBING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRAP PIMER		DIRECTION OF SLOPE
	BALL VALVE		DIRECTION OF FLOW
	BUTTERFLY VALVE		PIPE UP OR UP & DN
	GATE VALVE		PIPE DOWN
	BALANCING VALVE		PIPE DROP
	ANGLE GATE VALVE		TOP CONNECTION - BRANCH LINE
	SOLENOID VALVE		BOTTOM CONNECTION - BRANCH LINE
	LUBRICATED PLUG VALVE		COLD WATER
	CHECK VALVE		HOT WATER (120°F)
	PRESSURE REDUCING VALVE		HOT WATER CIRC (110°F)
	RELIEF VALVE		SANITARY SEWER, WASTE OR SOIL BELOW GRADE OR FLOOR
	VACUUM RELIEF VALVE		STORM DRAIN
	PRESSURE & TEMPERATURE RELIEF VALVE		PIPING BELOW GRADE
	AUTOMATIC AIR VENT		WASTE, OR SOIL ABOVE GRADE OR FLOOR
	UNION		VENT
	STRAINER		ROOF DRAIN PIPING
	STRAINER WITH BLOW OFF		OVERFLOW DRAIN PIPING
	PIPE ANCHOR		PUMPED DISCHARGE
	PIPE ALIGNMENT GUIDE		DRAIN LINE
	EXPANSION JOINT		INDIRECT WASTE
	FLEXIBLE CONNECTOR		EXISTING PIPE
	CAP OR PLUG		EXISTING TO BE REMOVED
	BLIND FLANGE		PLUMBING EQUIPMENT
	CONCENTRIC REDUCER		MISCELLANEOUS EQUIPMENT
	ECCENTRIC REDUCER		SHEET NOTE
			DETAIL NO.
			SHEET NO.
			POINT OF CONNECTION



NOTE:

1. REGULATOR ASSEMBLY SHALL BE APPROVED BY "NORTH WEST NATURAL GAS COMPANY".
2. PIPING SHALL BE IN ACCORDANCE WITH "NORTH WEST NATURAL GAS COMPANY" REQUIREMENTS.
3. ALL PIPING SHALL BE PAINTED "YELLOW". DO NOT PAINT BRAIDED HOSE.
4. SEAL ROOF PENETRATIONS WITH MEMBRANE COLLAR & CLAMP.

1 GAS CONNECTION WITH REGULATOR

SCALE: NONE

ABBREVIATIONS

ABV	ABOVE	SF	SQUARE FEET
AD	ACCESS DOOR	SHT	SHEET
ADA	AMERICANS WITH DISABILITIES ACT	SN	SHEET NOTE
AFF	ABOVE FINISHED FLOOR	SOV	SHUT-OFF VALVE
AFG	ABOVE FINISHED GRADE	S.S.	STAINLESS STEEL
AP	ACCESS PANEL	SV	SOLENOID VALVE
ARCH	ARCHITECT	TP	TRAP PRIMER
ASR	AUTO FIRE SPRINKLER RISER	TT	TEST TEE
BEL	BELOW	TYP	TYPICAL
BFV	BUTTERFLY VALVE	U	URINAL
BHP	BRAKE HORSEPOWER	UN	UNION
BTU	BRITISH THERMAL UNIT	VB	VACUUM BREAKER
BV	BALL VALVE	V	VENT
CA	COMPRESSED AIR	W	WASTE
CD	CONDENSATE DRAIN	WC	WATER CLOSET
CFF	CAP FOR FUTURE	WHA	WATER HAMMER ARRESTOR
CFH	CUBIC FEET PER HOUR	WCO	WALL CLEANOUT
CFM	CUBIC FEET PER MINUTE	W/	WITH
CFS	CUBIC FEET PER SECOND	WGT	WEIGHT
CI	CAST IRON		
CLG	CEILING		
CO	CLEANOUT		
CONC	CONCRETE		
CONN	CONNECTION		
CONTR	CONTRACTOR		
CONT	CONTINUATION		
CW	COLD WATER		
CW(FU)	COLD WATER FIXTURE UNIT		
DN	DOWN		
DCVA	DOUBLE CHECK VALVE ASSEMBLY		
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY		
DFU	DRAINAGE FIXTURE UNIT		
DIA	DIAMETER		
DRAIN	DRAIN		
DWG	DRAWING		
DWV	DRAINAGE WASTE AND VENT		
EXIST	EXISTING		
ELEC	ELECTRICAL		
FC	FLEXIBLE CONNECTION		
FCO	FLOOR CLEANOUT		
FFE	FINISHED FLOOR ELEVATION		
FIN	FINISHED		
FLR	FLOOR		
FLSW	FLOW SWITCH		
FPS	FEET PER SECOND		
FRM	FROM		
FT	FEET		
FT	FLUSH TANK		
(FU)	FIXTURE UNIT		
FUT	FUTURE		
FV	FLUSH VALVE		
G	GAS		
GAL	GALLONS		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
HD	HUB DRAIN		
HP	HORSEPOWER		
HW	HOT WATER		
HWFU	HOT WATER FIXTURE UNIT		
I.E.	INVERT ELEVATION		
I.R.R.	IRRIGATION		
LAV	LAVATORY		
LBS	POUNDS (UNIT OF FORCE)		
LP	LUBRICATED PLUG VALVE		
MAX	MAXIMUM		
MBH	THOUSANDS BTU/HR		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MH	MANHOLE		
N.C.	NORMALLY CLOSED		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NO.	NUMBER		
N.O.	NORMALLY OPEN		
NIC	NOT IN CONTRACT		
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
POC	POINT OF CONNECTION		
PLBG	PLUMBING		
PRV	PRESSURE REDUCING VALVE		
PSI	POUNDS PER SQUARE INCH		
PT	PRESSURE TEMPERATURE TRAP (PETE'S PLUG)		
PV	PROCESS VENT		
PV	PLUG VALVE		
RI&C	ROUGH IN AND CONNECT		
RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		
RPM	REVOLUTIONS PER MINUTE		
RV	RELIEF VALVE		

PLUMBING DESIGN CRITERIA

- A. BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION IN WASHINGTON:
1. 2009 INTERNATIONAL FUEL GAS CODE (IFGC) WITH STATE AMENDMENTS.
 2. 2009 UNIFORM PLUMBING CODE (UPC) WITH STATE AMENDMENTS.

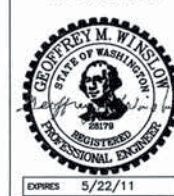
3. GAS SERVICE:
- A. METER CAPACITY 4000 CFH
 - B. MAIN SIZE 3 INCHES
 - C. MAXIMUM DISTANCE 450 FEET
 - D. CONNECTED LOAD 1216 CFH
 - E. DELIVERY PRESSURE: .5 PSI

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH PLUMBING SPECIFICATIONS.
2. AS-BUILT RECORD DOCUMENTS: AT PROJECT CLOSEOUT, CONTRACTOR SHALL SUBMIT DETAILED INSTALLATION DRAWINGS, CHANGE ORDERS AND SPECIFICATION CHANGES TO ARCHITECT FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
3. DETAILED INVESTIGATION OF EXISTING CONDITIONS ARE PART OF THE CONTRACT WORK. VISIT THE JOB SITE PRIOR TO BID. REVIEW AVAILABLE EQUIPMENT LAYOUTS, ASSEMBLY DRAWINGS AND INSTALLATION SCHEDULES.
4. CONTRACTOR SHALL COORDINATE ALL UTILITY LINES EXITING OR ENTERING BUILDING WITH DIVISION 2 SPECIFICATIONS AND CIVIL ENGINEER'S UTILITY PLAN DRAWINGS AND OTHER TRADES.

PLUMBING DRAWING LIST

- P0.1 LEGENDS AND ABBREVIATIONS - PLUMBING
P2.10A FIRST FLOOR PLAN - DEMO - WEST - PLUMBING
P2.10B FIRST FLOOR PLAN - DEMO - EAST - PLUMBING
P2.1A FIRST FLOOR PLAN - WEST - PLUMBING
P2.1B FIRST FLOOR PLAN - EAST - PLUMBING



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL AND REVISIONS, THE ORIGINAL SHALL GOVERN. THE ORIGINAL, SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

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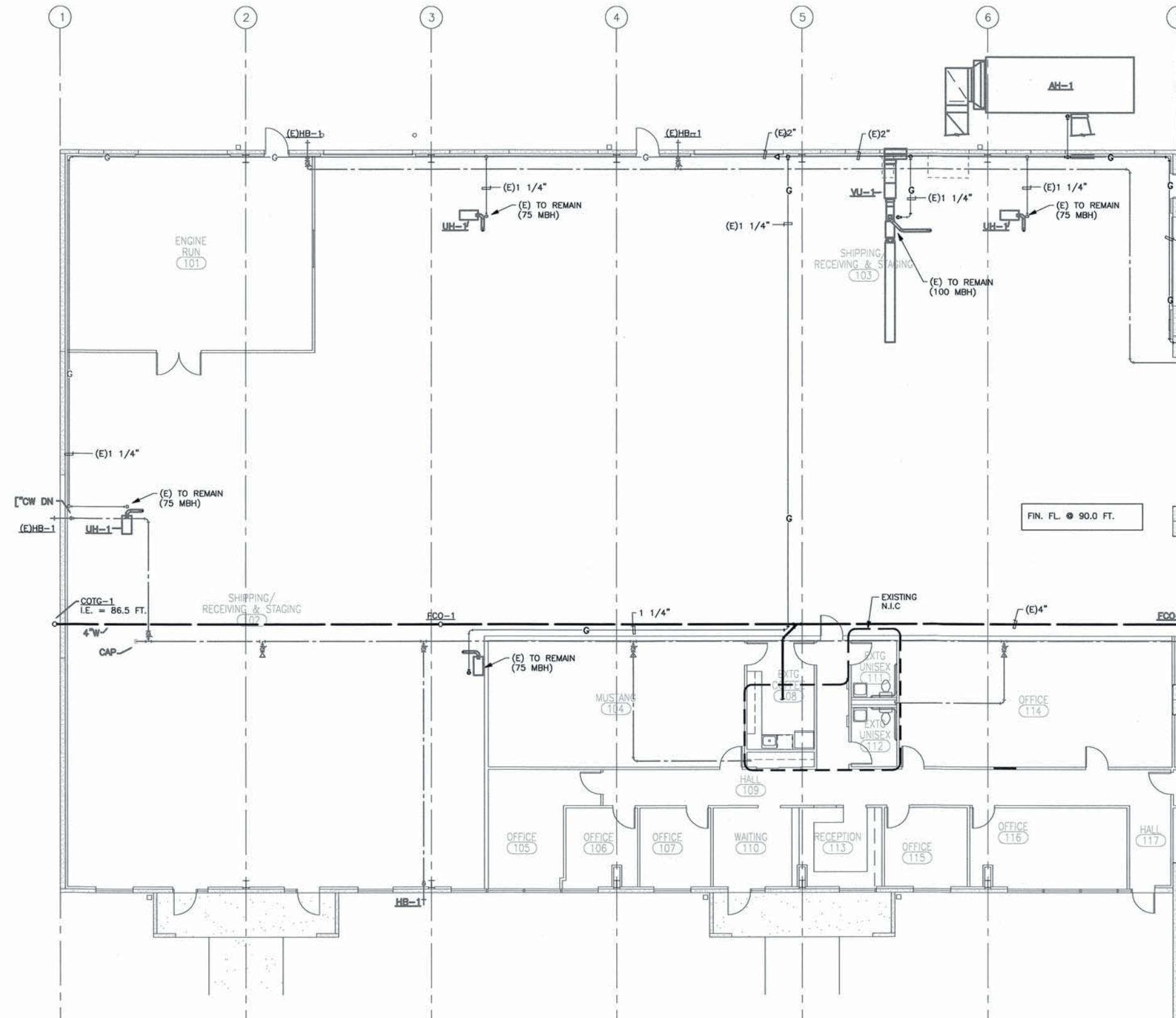
PROJECT NUMBER: 10009
PLOT DATE: 09.15.10
DRAWN:
APPROVED:
REVISIONS:

LEGENDS AND ABBREVIATIONS
PLUMBING



A. X-RAY WALLS BEFORE CUTTING OR CORE DRILLING TO ENSURE NO EXISTING REBAR IS CUT WHEN INSTALLING NEW WALL PENETRATIONS.

B. DO NOT OVER CUT OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR CUTTING PROCEDURES TO BE FOLLOWED.

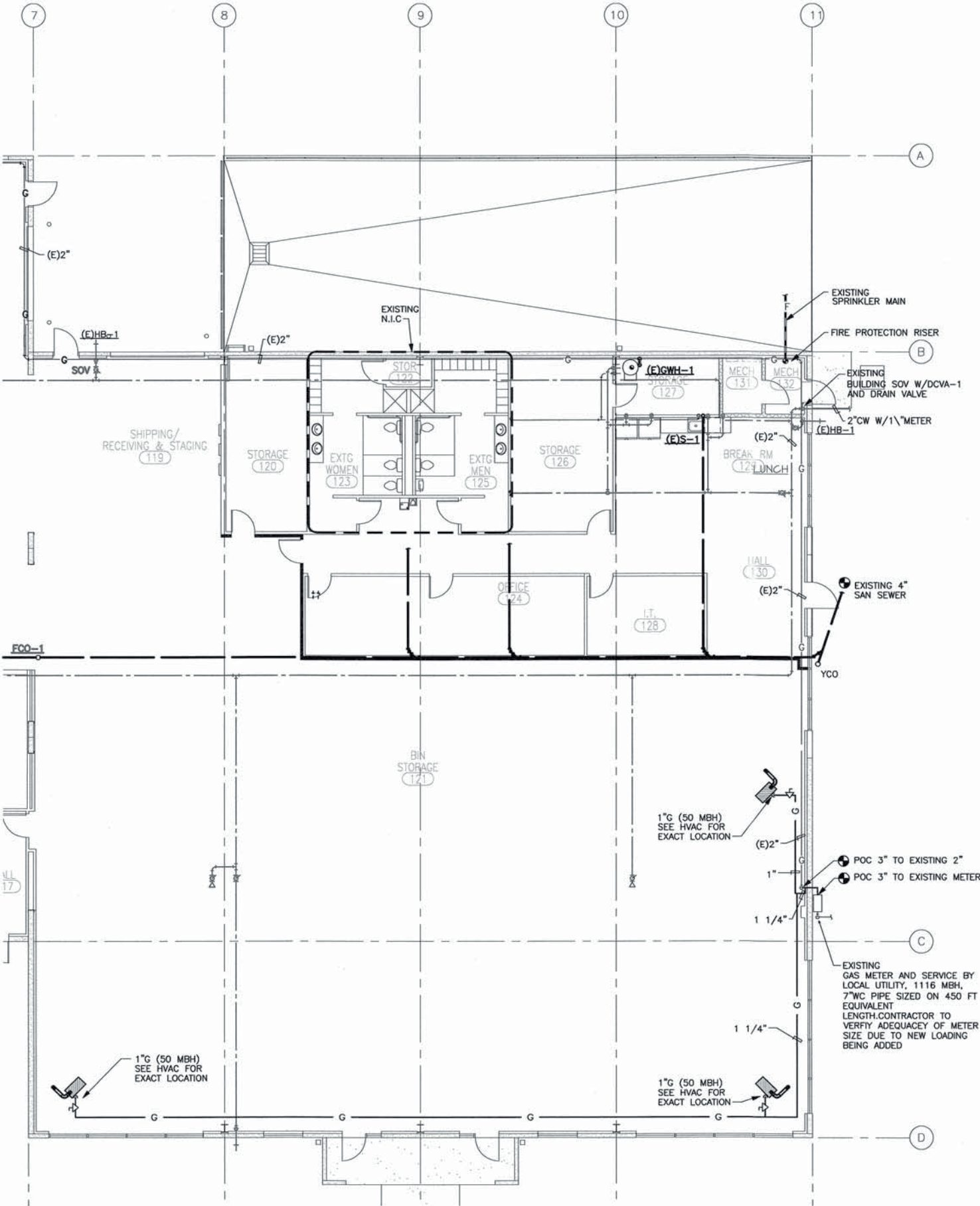


1 FIRST FLOOR PLAN - WEST PLUMBING
SCALE: 1/8"=1'-0"



GENERAL NOTES

- A. X-RAY WALLS BEFORE CUTTING OR CORE DRILLING TO ENSURE NO EXISTING REBAR IS CUT WHEN INSTALLING NEW WALL PENETRATIONS.
- B. DO NOT OVER CUT OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR CUTTING PROCEDURES TO BE FOLLOWED.



1 FIRST FLOOR PLAN - EAST PLUMBING
SCALE: 1/8"=1'-0"



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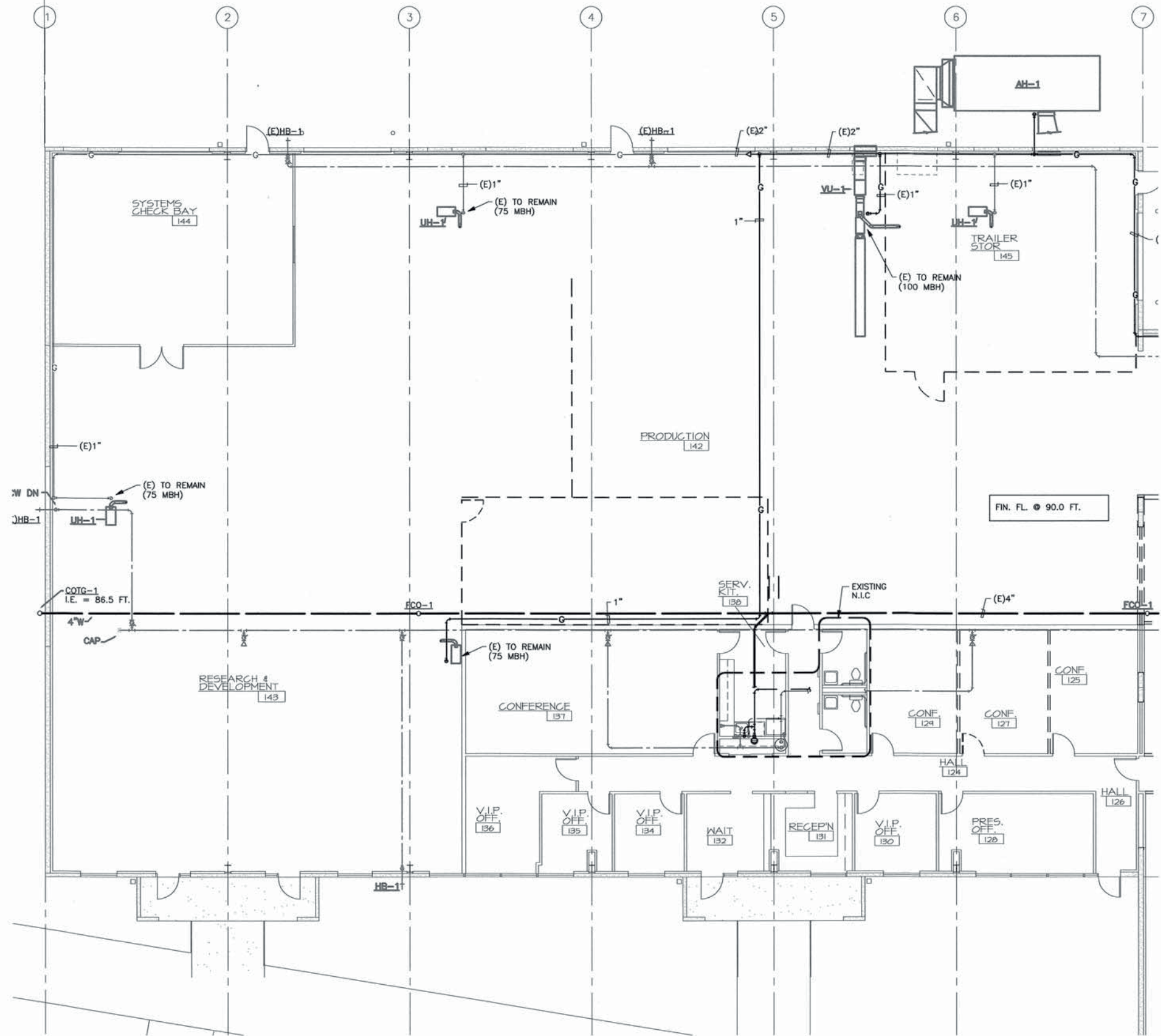
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FIRST FLOOR
PLAN - EAST
PLUMBING

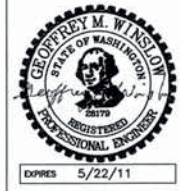


1 FIRST FLOOR PLAN - DEMO WEST - PLUMBING
SCALE: 1/8"=1'-0"

0 4' 8' 16'



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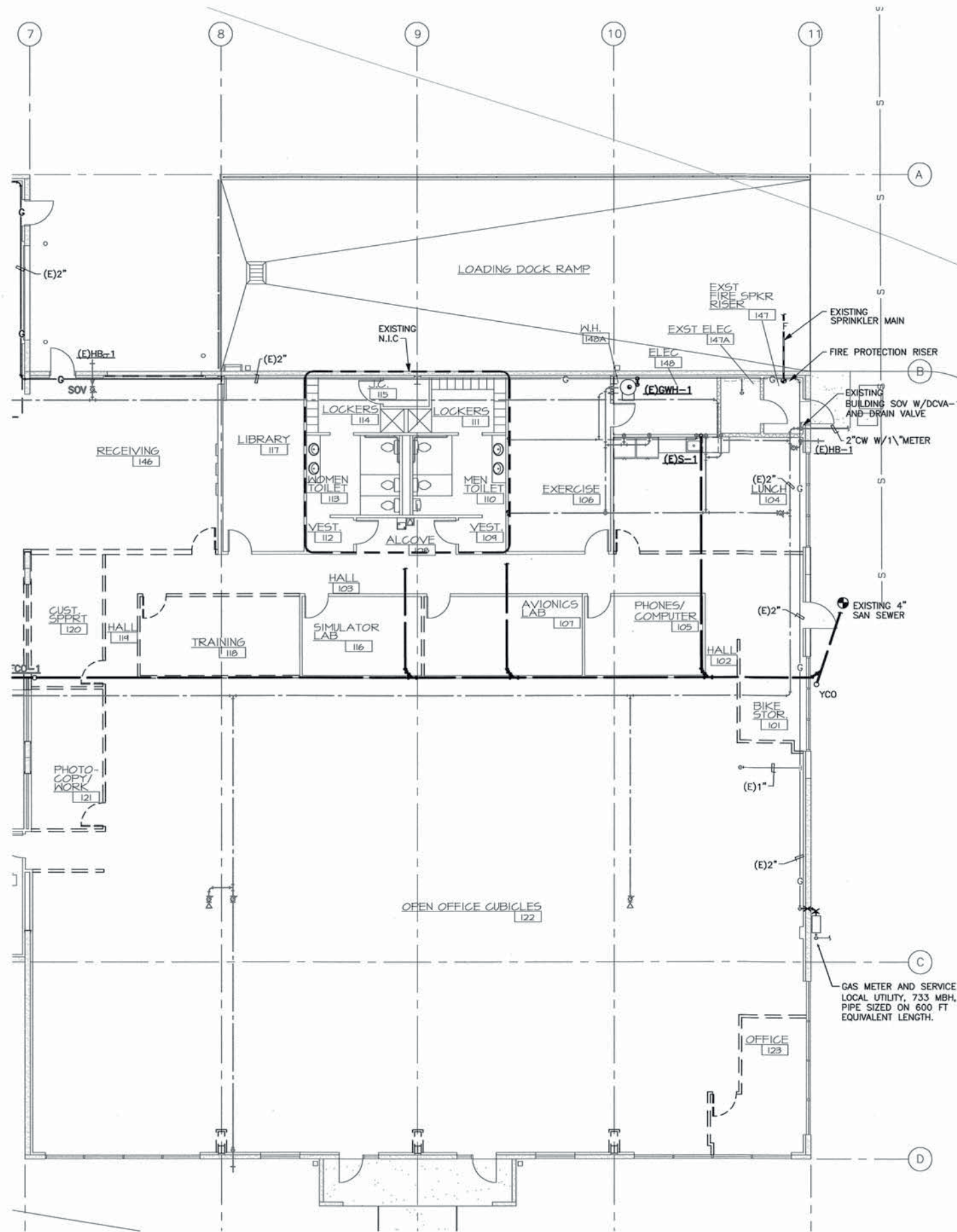
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FIRST FLOOR
PLAN - DEMO
WEST -
PLUMBING

P2.1DA



1 FIRST FLOOR PLAN - DEMO EAST - PLUMBING
 SCALE: 1/8"=1'-0"



Production Dept.	Project Manager	Project Engineer

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FIRST FLOOR
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