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SHEET INDEX

FIXTURES - GRAND + BENEDICTS C: MOLLY CROUSER T: 503.233.6222 E: MOLLYC@GRAND-BENEDICTS.COM	SIGNAGE - VICTORY SIGN INDUSTRIES C: DANA REYNOLDS T: 706.820.6820 E: DREYNOLDS@VICTORYSIGN.COM
LIGHTING - CITY LIGHTING C: TOM MISPAHEL T: 314.534.1090 E: TMISPAHEL@CITYLIGHTING.COM	STOCK ROOM FIXTURES - PIPP MOBILE STORAGE SYSTEMS, INC. C: KATY LOWRY T: 616.988.4063 E: KLOWRY@PIPPMOBILE.COM
LOCKS / SAFE - REDFORD LOCK SECURITY SOLUTIONS C: DAVID BOILORE T: 313.401.7004 E: DBOILORE@REDFORDLOCK.COM	SENSORMATIC - JOHNSON CONTROLS C: MH TOTH T: 269.271.8401 E: MH.TOTH@ICI.COM

VENDOR CONTACTS

LANDLORD - TENANT COORDINATOR SUMMIT WOODS CROSSING 1700 NW CHIPMAN RD LEE'S SUMMIT, MO 64081 C: JOSH GALICA E: JGALICA@RAINIERCOMPANIES.COM	PROGRAM MANAGER RGLA SOLUTIONS, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 C: SANDI LEAMON / ADRIAN TAFOLLA P: 847.707.7452 / 847.916.2728 E: SLEAMON@RGLA.COM / ATAFOLLA@RGLA.COM
TENANT / OWNER CARHARTT INC. 5750 MERCURY DRIVE DEARBORN, MI 48126 C: MARK KASTNER T: 313.212.7021 E: MKASTNER@CARHARTT.COM	MEP ENGINEER KLH ENGINEERS, PSC 333 EAST MAIN, SUITE 175 LEXINGTON, KY 40507 C: JORDAN LAYCOCK T: 859.547.0242 E: JLAYCOCK@KLHENGERS.COM
ARCHITECT JOSEPH A. GEOGHEGAN JR. ROBERT G. LYON & ASSOCIATES, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 PLEASE CONTACT PROGRAM MANAGER FOR ALL INQUIRIES.	STRUCTURAL ENGINEER WALLACE DESIGN COLLECTIVE, PC 1703 WYANDOTTE STREET, SUITE 200 KANSAS CITY, MO 64108 C: DARCEY SCHUMACHER T: 816.820.0365 E: DARCEY.SCHUMACHER@WALLACEDESIGN.COM

PROJECT DIRECTORY

UPON AWARDING THE GENERAL CONTRACTOR'S CONTRACT, THE GENERAL CONTRACTOR MUST INFORM THE OWNER (CARHARTT) IN WRITING OF ALL MATERIALS AND EQUIPMENT WITH LEAD TIMES OF 4 WEEKS OR GREATER

ALL CHANGE ORDERS TO BE APPROVED BY CARHARTT - MARK KASTNER - IN WRITING PRIOR TO PROCEEDING WITH WORK. ANY WORK COMPLETED WITHOUT AN APPROVED CHANGE ORDER WILL NOT BE PAID.

WORK UNDER SEPARATE PERMIT:
• SPRINKLER WORK
• FIRE ALARM
• STOREFRONT SIGNAGE

ALL MATERIAL SUBSTITUTIONS MUST OBTAIN OWNER AND ARCHITECT'S APPROVAL PRIOR TO COMMENCEMENT

GC SHALL PROVIDE CARPENTER ON-SITE FOR ONE EIGHT-HOUR DAY AFTER TURNOVER FOR MISCELLANEOUS TASKS.

REQUIRED SUBCONTRACTORS:
VERIFY WITH MALL OPERATIONS MANAGER FOR ALL REQUIRED SUBCONTRACTORS.



SUMMIT WOODS CROSSING

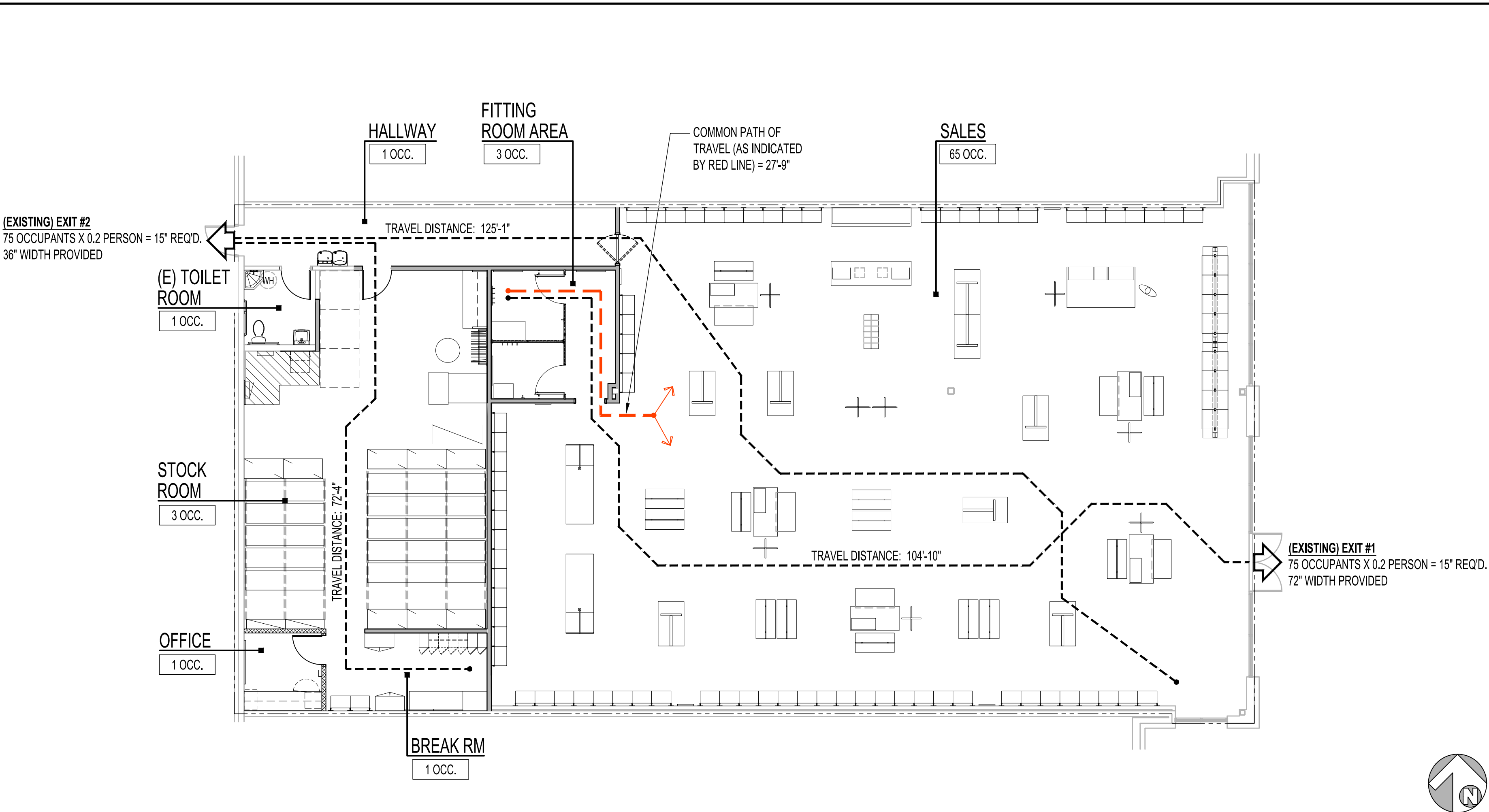
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081



r gla solutions, inc.
5100 River Road, Ste 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com

REVISIONS:	DATE:
ISSUE FOR PERMIT	06/18/25
LANDLORD PRICING	
REV 1 - PERMIT	07/21/25
REVISIONS:	

robert g. lyon + associates, inc.
retail architecture
5100 River Road, Suite 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com



SCOPE OF WORK STATEMENT THE INTENT OF THE SCOPE CONTAINED WITHIN THESE DOCUMENTS RELATES TO THE INTERIOR BUILD-OUT OF A MERCANTILE SPACE CONTAINED WITHIN AN EXISTING SHOPPING CENTER. PROPOSED WORK INCLUDES CONSTRUCTION AND INSTALLATION OF NEW NON-LOAD BEARING PARTITIONS, FIXTURES, FINISHES, LIGHTING, MECHANICAL, ELECTRICAL, AND PLUMBING.	PERMIT SCOPE INCLUDES ONLY CHECKED BOXES <input checked="" type="checkbox"/> BUILDING <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> ELECTRICAL <input checked="" type="checkbox"/> PLUMBING <input type="checkbox"/> SPRINKLER <input type="checkbox"/> STOREFRONT SIGN
	MALL TYPE <input type="checkbox"/> COVERED MALL BUILDING <input checked="" type="checkbox"/> EXTERIOR MALL <input type="checkbox"/> STREET LOCATION

SCOPE OF WORK

APPLICABLE CODES	
BUILDING:	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL:	2017 NATIONAL ELECTRICAL CODE
MECHANICAL:	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING:	2018 INTERNATIONAL PLUMBING CODE
ACCESSIBILITY:	ICC/ANSI A117.1-2009
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
EXISTING BUILDING CODE:	2018 INTERNATIONAL EXISTING BUILDING CODE

OCCUPANCY LOAD CALCULATIONS	
GROSS AREA:	5,510 SQ.FT. (LEASED AREA)
SALES AREA:	3,871 SQ.FT. / 60 SQ.FT. PER PERSON = 65
FITTING ROOM AREA:	181 SQ.FT. / 60 SQ.FT. PER PERSON = 3
TOILET ROOM:	1 PRIVATE TOILET ROOM = 1
OFFICE:	1 PRIVATE OFFICE = 1
HALLWAY:	257 SQ.FT. / 300 SQ.FT. PER PERSON = 1
BREAK ROOM:	181 SQ.FT. / 300 SQ.FT. PER PERSON = 1
STOCKROOM:	908 SQ.FT. / 300 SQ.FT. PER PERSON = 3
TOTAL OCCUPANCY:	75 PERSONS

BUILDING REQUIREMENTS		
DESCRIPTION	CODE SECTION	REQUIREMENTS
USE GROUP:	IBC CHAPTER 3, SECTION 309	M (MERCANTILE)
NUMBER OF LEVELS:		LOCATED ON GROUND LEVEL OF 1 LEVEL
CONSTRUCTION TYPE:	IBC TABLE 601	TYPE II B
FIRE SPRINKLERS:	IBC SECTIONS 506.3, 903.1	FULLY SPRINKLERED
TENANT AREA:	IBC SECTION 507.3	5,510 SQ.FT. AREA OF WORK
OCCUPANT LOAD:	IBC SECTION 1004.1 & NFPA 101	75 PERSONS
NUMBER OF EXITS:	IBC TABLE 1006.3	2 REQUIRED
EXIT WIDTH:	IBC TABLE 1005.1	30" REQUIRED 108" PROVIDED

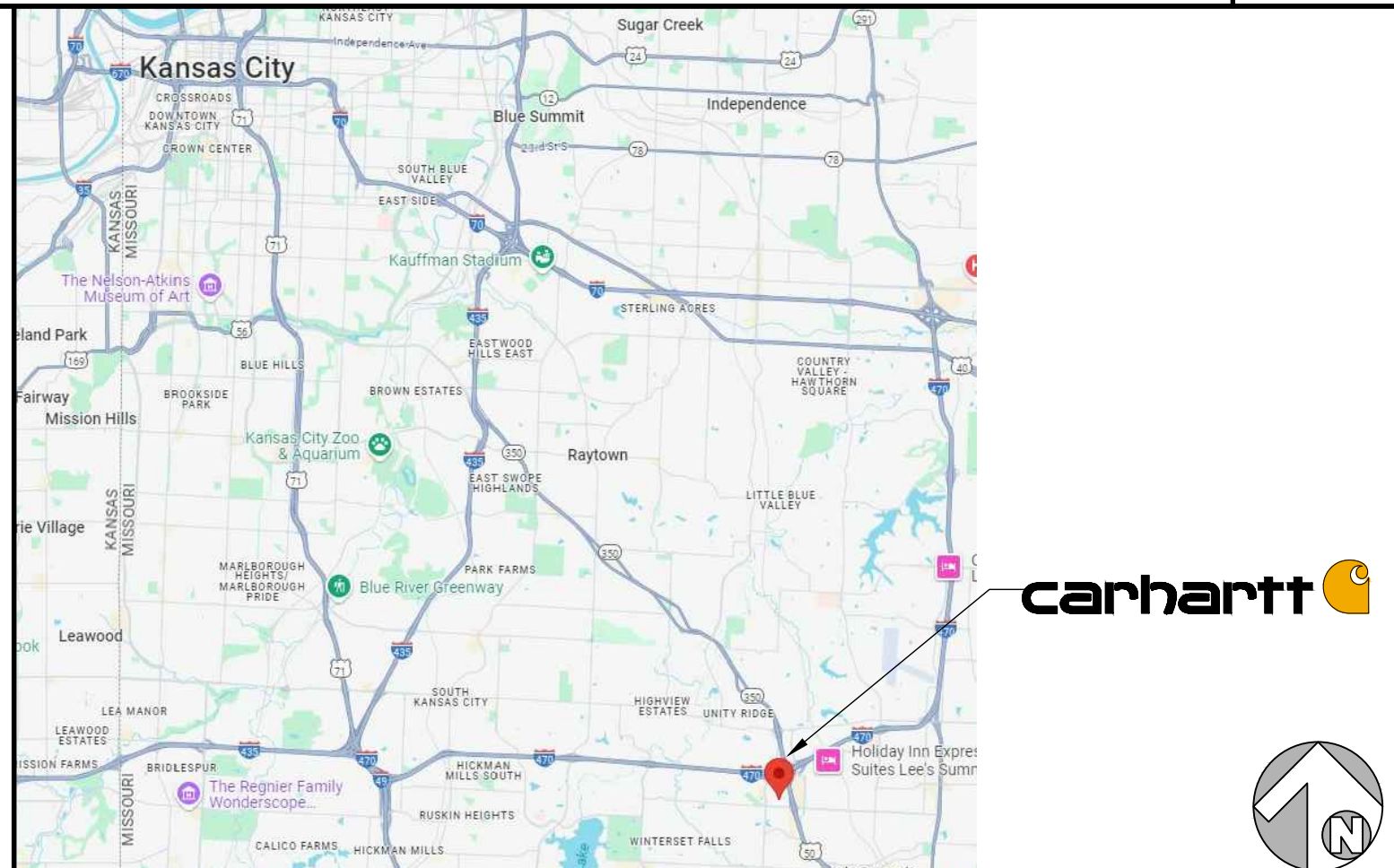
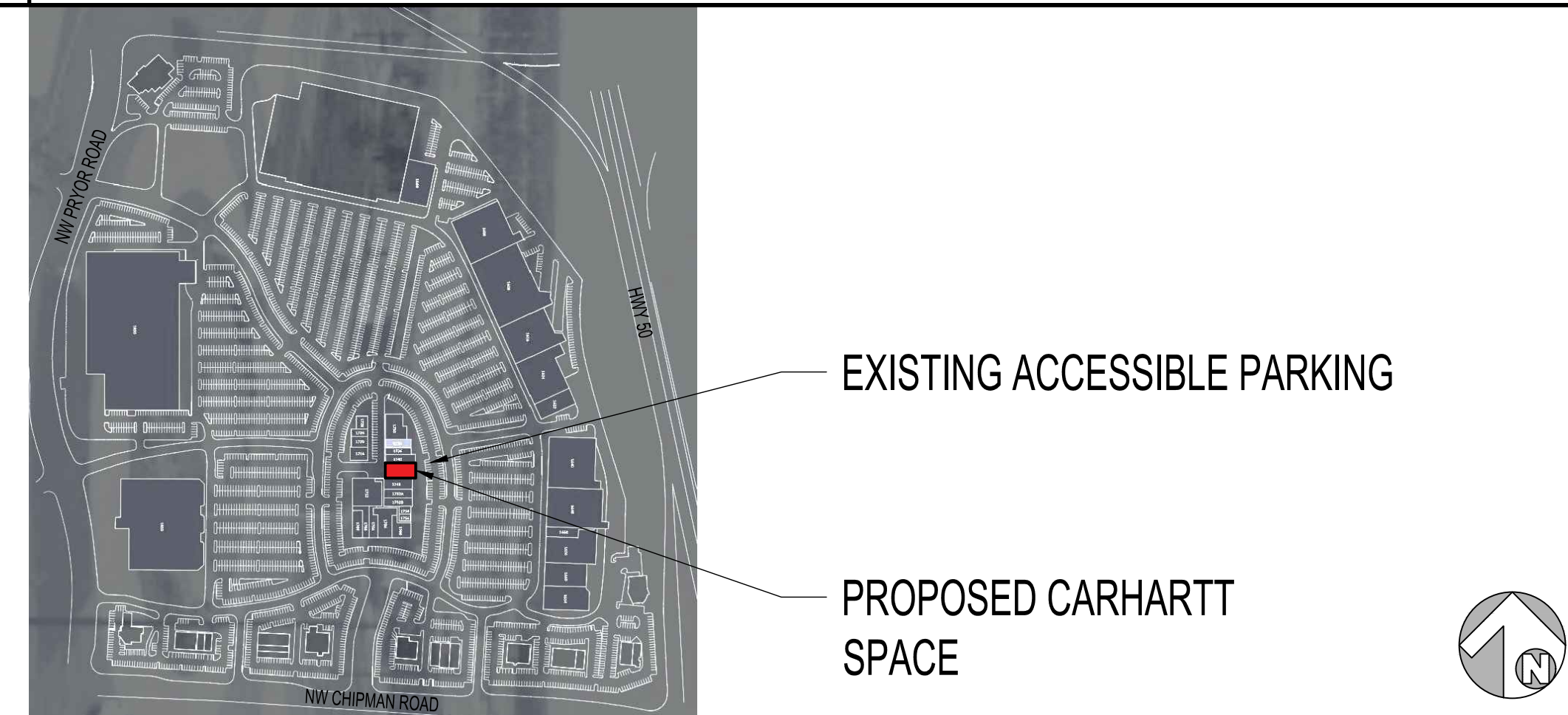
CODE AND BUILDING SUMMARY

STATEMENT OF COMPLIANCE
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE CODES AND ORDINANCES OF LEE'S SUMMIT, MO.

JOSEPH A. GEOGHEGAN JR.
LICENSE #: A-2008008193
EXPIRATION DATE: 12/31/2026

SEAL:

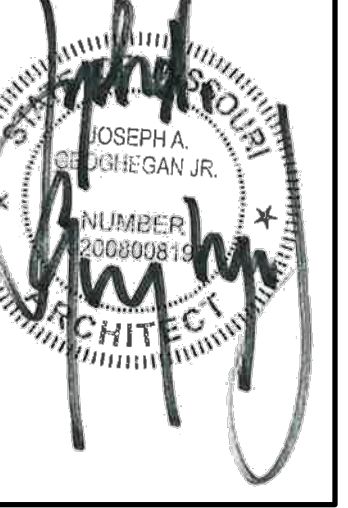
EGRESS PLAN



KEY PLAN

VICINITY MAP

CERTIFICATION STATEMENT	
DRAWN BY:	SLS
CHECKED BY:	SL
JOB NUMBER:	25303
SHEET NAME:	G-0.0



THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DECISIONS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THIS OFFICE. NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE DRAWINGS. WRITTEN OBJECTION ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED OBJECTIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTICED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN IN THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
© 2025 ROBERT G. LYON & ASSOCIATES, INC.

carhartt

SUMMIT WOODS CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

COVER SHEET, CODE INFORMATION, PROJECT DATA, & DIRECTORY

DRAWN BY:	SLS
CHECKED BY:	SL
JOB NUMBER:	25303
SHEET NAME:	G-0.0

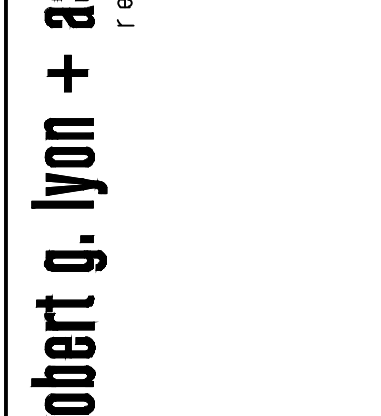
<p>DIVISION 01: GENERAL REQUIREMENTS:</p> <p>1. GENERAL: THESE DRAWINGS AND SPECIFICATIONS INCLUDING DESIGNS AND IDEAS REPRESENTED THEREON ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONJUNCTION WITH ANY WORK OR PROJECT EXCEPT THOSE FOR WHICH THEY HAVE BEEN DEVELOPED AND PREPARED, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THE DRAWINGS AND SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE TERM "GENERAL CONTRACTOR" USED IN THESE DOCUMENTS REFER TO TENANTS AS WELL AS LANDLORDS GENERAL CONTRACTOR.</p> <p>A. THE WORK UNDER THIS CONTRACT COMPRISES THE BUILD-OUT OF A NEW RETAIL STORE FOR CARHARTT (SEE PLANS FOR SQUARE FOOTAGE AND EXACT SCOPE OF WORK).</p> <p>B. THE LANDLORD/TENANT GENERAL CONTRACTORS SHALL VISIT THE SITE TO VERIFY ANY EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BID/PROPOSAL AND REPORT TO THE ARCHITECT ANY DISCREPANCIES OR CONDITIONS WHICH MAY INTERFERE WITH THE EXECUTION OF THE DEPICTED WORK. EXTRAS WILL NOT BE ALLOWED FOR UNREPORTED DISCREPANCIES OR CONDITIONS.</p> <p>C. THE GENERAL CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANIES TO VERIFY ALL ELEVATIONS, SIZES, LOCATIONS AND CONNECTION POINTS FOR ALL UTILITIES AFFECTED BY THIS PROJECT. THE GENERAL CONTRACTOR SHALL COORDINATE AND OBTAIN ALL PERMITS FOR, AND EXPENSES FOR, ALL UTILITIES ARE TURNED ON PRIOR TO COMPLETION OF WORK.</p> <p>D. CONTRACTOR TO PROVIDE ALL SUB-CONTRACTORS WITH A COMPLETE SET OF THE MOST CURRENT CONSTRUCTION DOCUMENTS.</p> <p>2. CONTRACTS (LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS - "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A201)" ARE HEREBY MADE A PART OF THESE DRAWINGS AND SPECIFICATIONS, AS WELL AS THE CONTRACT FOR CONSTRUCTION BY REFERENCE AND THEY SHALL BE LEGALLY ENFORCEABLE TO THE SAME DEGREE AND EXTENT AS IF THEY WERE REPRODUCED HEREON.</p> <p>3. PERMITS & CERTIFICATES: ALL WORK SHALL COMPLY WITH STATE AND LOCAL REGULATIONS AND ORDINANCES, ANY OTHER APPLICABLE CODES AND SHOPPING CENTER CRITERIA.</p> <p>A. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND ARRANGE FOR ALL INSPECTIONS BY LOCAL JURISDICTIONS.</p> <p>B. A COMPLETE UP TO DATE SET OF THE DRAWINGS, INCLUDING APPROVED SHOP DRAWINGS SHALL BE KEPT AT THE SITE FOR THE DURATION OF THE WORK. COPIES OR ORIGINALS, IF REQUIRED, OF ALL PERMITS AND APPROVALS, SHALL ALSO BE KEPT AT THE SITE.</p> <p>C. UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE LANDLORD AND TENANT (COPY TO ARCHITECT) A PROPERLY ISSUED OCCUPANCY CERTIFICATE AND COPIES OF ANY OTHER REQUIRED APPROVALS BY ANY AND ALL AGENCIES HAVING JURISDICTION OVER THE WORK (INCLUDING THE LANDLORD).</p> <p>4. INSURANCE: ALL CONTRACTORS (GENERAL AND SUBCONTRACTORS) SHALL COMPLY WITH THE LANDLORD'S AND TENANTS REQUIREMENT FOR INSURANCE, BONDS AND WAIVERS OF LIEN.</p> <p>A. PRIOR TO COMMENCEMENT OF THE WORK, ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN INSURANCE POLICIES AS OUTLINED BELOW. INSURANCE POLICIES ARE TO NAME THE TENANT, TENANT'S PROGRAM MANAGER (RGLA SOLUTIONS, INC.), TENANT'S ARCHITECT (ROBERT G. LYON & ASSOCIATES, INC.), LANDLORD AND THE LANDLORD'S GENERAL CONTRACTOR (IF APPLICABLE) AS ADDITIONALLY INSURED. CERTIFICATES OF INSURANCE SHALL BE SUBMITTED TO THOSE NAMED.</p> <p>B. WORKMAN'S COMPENSATION AND OCCUPATIONAL DISEASE INSURANCE.</p> <p>B.A. STATE - STATUTORY.</p> <p>B.B. APPLICABLE FEDERAL (E.G.: LONGSHOREMEN, HARBOR WORK, WORK OUTSIDE THE UNITED STATES) - STATUTORY.</p> <p>B.C. EMPLOYER'S LIABILITY:</p> <table border="1"> <tr> <td>\$500,000.00</td> <td>PER ACCIDENT</td> </tr> <tr> <td>\$500,000.00</td> <td>DISEASE</td> </tr> </table> <p>B.D. BENEFITS REQUIRED BY UNION LABOR CONTRACTS AS APPLICABLE.</p> <p>C. COMPREHENSIVE GENERAL LIABILITY (INCLUDING PREMISES - OPERATIONS; INDEPENDENT CONTRACTORS' PROTECTIVE; PRODUCTS AND COMPLETED OPERATIONS; BROAD FORM PROPERTY DAMAGE; AUTOMOBILE COVERAGE, AND CONTRACTUAL LIABILITY.)</p> <p>C.A. BODILY INJURY:</p> <table border="1"> <tr> <td>\$4,000,000.00</td> <td>EACH OCCURRENCE</td> </tr> <tr> <td>\$4,000,000.00</td> <td>AGGREGATE</td> </tr> </table> <p>C.B. PROPERTY DAMAGE (INCLUDING WATER DAMAGE AND SPRINKLER LEAKAGE, LEGAL LIABILITY):</p> <table border="1"> <tr> <td>\$4,000,000.00</td> <td>EACH OCCURRENCE</td> </tr> <tr> <td>\$4,000,000.00</td> <td>AGGREGATE</td> </tr> </table> <p>C.C. PRODUCTS AND COMPLETED OPERATIONS SHALL BE MAINTAINED FOR A MINIMUM OF ONE (1) YEAR AFTER FINAL PAYMENT AND CONTRACTOR SHALL CONTINUE TO PROVIDE EVIDENCE OF SUCH COVERAGE TO OWNER ON AN ANNUAL BASIS DURING THE AFOREMENTIONED PERIOD.</p> <p>C.D. PROPERTY DAMAGE LIABILITY INSURANCE SHALL INCLUDE COVERAGE FOR EXPLOSION AND COLLAPSE.</p> <p>C.E. CONTRACTUAL LIABILITY (HOLD HARMLESS COVERAGE):</p> <table border="1"> <tr> <td>BODILY INJURY:</td> <td></td> </tr> <tr> <td>\$2,000,000.00</td> <td>EACH OCCURRENCE</td> </tr> <tr> <td>PROPERTY DAMAGE:</td> <td></td> </tr> <tr> <td>\$2,000,000.00</td> <td>EACH OCCURRENCE</td> </tr> <tr> <td>\$2,000,000.00</td> <td>AGGREGATE</td> </tr> </table> <p>C.F. PERSONAL INJURY (WITH EMPLOYMENT EXCLUSION DELETED):</p> <table border="1"> <tr> <td>\$2,000,000.00</td> <td>EACH PERSON</td> </tr> </table> <p>C.G. D. COMPREHENSIVE AUTOMOBILE LIABILITY (OWNED, NON-OWNED, HIRED)</p> <p>D.A. BODILY INJURY:</p> <table border="1"> <tr> <td>\$2,000,000.00</td> <td>EACH PERSON</td> </tr> <tr> <td>\$2,000,000.00</td> <td>EACH ACCIDENT</td> </tr> </table> <p>D.B. PROPERTY DAMAGE:</p> <table border="1"> <tr> <td>\$2,000,000.00</td> <td>EACH OCCURRENCE</td> </tr> </table> <p>E. OTHER INSURANCE AND BONDS AS MAY BE REQUIRED BY THE LANDLORD (VERIFY REQUIREMENTS WITH THE LANDLORD).</p> <p>5. CONTRACTOR (G.C.): THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION NECESSARY, WHETHER STATED OR IMPLIED, TO COMPLETE THE WORK AS DESCRIBED ON THESE DRAWINGS AND SPECIFICATIONS.</p> <p>A. REFER TO THE DIVISION OF WORK FOR A BREAKDOWN OF THE VARIOUS RESPONSIBILITIES OF ALL INVOLVED PARTIES. ALL CONTRACTORS, VENDORS AND TRADES ARE RESPONSIBLE FOR THE VARIOUS PROVISIONS OF THE SPECIFICATION AS IT APPLIES TO THEM.</p> <p>B. INSTALL ALL SYSTEMS, COMPONENTS, ASSEMBLIES, FIXTURES, HARDWARE AND FINISHES PER THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.</p> <p>C. IMMEDIATELY REPAIR ALL DAMAGE TO ANY SYSTEMS OR COMPONENTS BEING MAINTAINED AT NO COST TO THE LANDLORD.</p> <p>D. PROTECT ALL PEOPLE.</p> <p>E. ALL WORK SHALL BE COORDINATED WITH AND IS SUBJECT TO APPROVAL BY, AND IS SUBJECT TO THE RULES OF THE LANDLORD. CONTRACTOR TO OBTAIN RULES AND REGULATIONS FROM LANDLORD.</p> <p>F. THE WORK UNDER THIS CONTRACT INCLUDES BOTH A FULL TIME SITE SUPERINTENDENT AND PROJECT MANAGER FOR THE DURATION OF CONSTRUCTION.</p> <p>6. WORK BY TENANT: REFER TO THE DIVISION OF WORK FOR ANY TENANT FURNISHED AND SUPPLIED ITEMS.</p> <p>7. WORK BY LANDLORD: REFER TO THE DIVISION OF WORK FOR ANY LANDLORD FURNISHED AND SUPPLIED ITEMS.</p> <p>8. WORK BY GENERAL CONTRACTOR IS SUBJECT TO THE RULES OF THE LANDLORD. SUBMIT EVIDENCE OF SAME AS MAY BE REQUIRED, OBTAIN A LIST OF RULES AND REGULATIONS FROM THE LANDLORD.</p> <p>A. MINIMUM INTERFERENCE: ALL WORK SHALL BE PERFORMED SO AS TO CAUSE A MINIMUM OF INTERFERENCE WITH ANY OTHER TENANTS AND THE OPERATION OF THE LANDLORD'S ENTIRE PREMISES. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY STEPS TO PROTECT THE FACILITIES ON THE PREMISES AND THE FACILITIES OF OTHERS AFFECTED BY PERFORMANCE OF THE WORK AND POLICE SAME PROPERLY.</p> <p>B. ALL MATERIALS AND PRODUCTS SPECIFIED SHALL BE NEW AND ARE TO BE INSTALLED IN ACCORD WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORD WITH THE DOCUMENTS. ANY DEVIATION FROM THE INTENT OF THE DOCUMENTS WITHOUT ARCHITECT APPROVAL IS THE CONTRACTOR'S OWN RISK.</p> <p>9. TENANT SUPPLIED/TENANT'S GENERAL CONTRACTOR INSTALLED MATERIALS.</p> <p>A. THE GENERAL CONTRACTOR SHALL INCLUDE IN BASE BID THE COST TO UNLOAD AND STORE OWNER FURNISHED ITEMS FOR INSTALLATION BY THE GENERAL CONTRACTOR.</p> <p>B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FILING FREIGHT CLAIMS DIRECT WITH CARRIER, AND FOLLOWING THROUGH AS NECESSARY WITH ALL SUBSEQUENT PROCEDURES, INCLUDING INSPECTIONS AND REMOVAL OF DAMAGED MATERIAL. THIS APPLIES TO VISIBLE AND CONCEALED DAMAGES OF ALL OWNER SUPPLIED MATERIALS. FAILURE TO DO SO WILL RESULT IN BACK-CHARGE EXPENSES TO THE GENERAL CONTRACTOR.</p> <p>C. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL OWNER SUPPLIED MATERIALS THROUGHOUT THE COURSE OF THE PROJECT, AND IS TO MAKE REPAIRS AS REQUIRED.</p> <p>10. APPLICATION FOR PAYMENT: SUBMIT (3) THREE COPIES OF EACH APPLICATION ON AIA G702 FORMS. PAYMENT MAY BE APPLIED FOR MONTHLY AND WILL BE BASED ON PERCENTAGE OF WORK COMPLETED LESS RETAINAGE.</p> <p>A. BEGINNING WITH PAY REQUEST #2, GENERAL CONTRACTOR SHALL SUBMIT A PARTIAL WAIVER OF LIEN EQUAL TO THE AMOUNT OF THE PREVIOUS PAY REQUEST FROM EACH SUBCONTRACTOR.</p> <p>B. UPON COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE GENERAL CONTRACTOR SHALL SUBMIT FINAL UNCONDITIONAL (NOTARIZED) WAIVERS OF LIEN FROM ALL SUBCONTRACTORS AND A FINAL NOTARIZED UNCONDITIONAL WAIVER OF LIEN FROM HIMSELF FOR THE FULL AMOUNT OF THE CONTRACT (INCLUDING ALL ADDITIONS AND CREDITS).</p> <p>11. COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL SUBCONTRACTORS AND TRADES.</p> <p>A. PROVIDE AND MAINTAIN AN UP-TO-DATE SCHEDULE OF WORK.</p> <p>B. SCHEDULE AND ADMINISTER MEETINGS AS AGREED TO BY THE OWNER AND ARCHITECT AND COMPOSE MINUTES TO THOSE MEETINGS.</p> <p>C. PROVIDE A FULL TIME QUALIFIED SUPERVISOR ON SITE.</p>	\$500,000.00	PER ACCIDENT	\$500,000.00	DISEASE	\$4,000,000.00	EACH OCCURRENCE	\$4,000,000.00	AGGREGATE	\$4,000,000.00	EACH OCCURRENCE	\$4,000,000.00	AGGREGATE	BODILY INJURY:		\$2,000,000.00	EACH OCCURRENCE	PROPERTY DAMAGE:		\$2,000,000.00	EACH OCCURRENCE	\$2,000,000.00	AGGREGATE	\$2,000,000.00	EACH PERSON	\$2,000,000.00	EACH PERSON	\$2,000,000.00	EACH ACCIDENT	\$2,000,000.00	EACH OCCURRENCE	<p>D. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL OTHER CONTRACTORS AND VENDORS WORKING IN THE SPACE.</p> <p>12. SUBMITTALS: SUBMITTALS SHALL BE PROVIDED FOR MATERIALS AND ASSEMBLIES LISTED IN EACH SECTION OF THIS SPECIFICATION:</p> <p>A. SHOP DRAWINGS AND SAMPLES: WHERE CALLED FOR IN DOCUMENTS, SUBMIT TO ARCHITECT FOR APPROVAL AS FOLLOWS.</p> <p>A.A. REPRODUCIBLE DRAWINGS: ONE SET/IA TRANSPARENCY.</p> <p>A.B. NON-REPRODUCIBLE DATA: TWO COPIES.</p> <p>A.C. SAMPLES: (2) EACH.</p> <p>A.D. CLEARLY MARK ALL SUBMISSIONS WITH DATA, PROJECT, CONTACT AND SUB-CONTRACTOR AND ALLOW SPACE FOR APPROVAL/STAMP.</p> <p>B. PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL INFORMATION AND INSTALLATION INSTRUCTIONS FOR SPECIFIED MATERIALS, EXCEPT BULK MATERIALS, TO THE TENANT (COPY TO THE ARCHITECT).</p> <p>C. PRODUCT WARRANTY: SUBMIT MANUFACTURER'S PRODUCT AND MATERIAL INFORMATION TO TENANT (COPY TO THE ARCHITECT).</p> <p>13. INSPECTION AND TESTING: THE GENERAL CONTRACTOR SHALL EMPLOY AND PAY FOR AN INDEPENDENT FIRM (APPROVED BY THE ARCHITECT) TO PERFORM INSPECTION AND TESTING REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.</p> <p>A. SUBMIT TESTING AND INSPECTION RESULTS TO THE ARCHITECT, AND TENANT FOR THEIR FILES.</p> <p>14. TEMPORARY SERVICES: PROVIDE TEMPORARY SERVICES NECESSARY TO COMPLETE THE CONSTRUCTION INCLUDING (BUT NOT LIMITED TO): ELECTRICITY, LIGHTING, HVAC, TELEPHONE, FACSIMILE MACHINE, WATER SERVICE, SANITARY FACILITIES, FIRE PROTECTION EQUIPMENT, FENCES/BARRICADES AND SECURITY.</p> <p>A. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BARRICADES, TEMPORARY CONSTRUCTION, DUSTSHIELDS, AND SCAFFOLDING REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADE MAINTENANCE, REMOVAL AND REPAIR, CLEANUP OR ANY RECONSTRUCTION REQUIRED AS A RESULT OF THE BARRICADE.</p> <p>B. GENERAL CONTRACTOR IS TO BE FAMILIAR WITH ALL LANDLORD CRITERIA, SPECIAL WORKING CONDITIONS PERTAINING TO BARRICADES, NOISE, DUST, TRASH REMOVAL, ETC. AND TO COORDINATE WITH LANDLORDS.</p> <p>C. GENERAL CONTRACTOR MUST HAVE A JOB PHONE ON PREMISES DURING ENTIRE CONSTRUCTION PERIOD AND PROVIDE NUMBER AND NAME OF CONTACT TO ARCHITECT AND TENANT IMMEDIATELY.</p> <p>15. SITE ACCESS: COORDINATE SITE ACCESS, WORK HOURS, WORKER PARKING, LOADING AND UNLOADING AND STORAGE OF MATERIALS WITH THE LANDLORD.</p> <p>16. JOB SAFETY REQUIREMENTS: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY DURING CONSTRUCTION. PROVIDE AND POST SAFETY RULES AT THE JOBSITE.</p> <p>17. CLEANING/FINAL CLEANING: MAINTAIN SITE IN A CLEAN AND ORDERLY FASHION AT ALL TIMES. FINAL CLEAN THE ENTIRE SITE, DISPOSING OF ANY REMAINING DEBRIS AND TRASH, VACUUMING OR SWEEPING AND MOPPING FLOORS AND CLEANING ALL GLAZED, TILED, PAINTED, ETC. SURFACES FOR SUBSTANTIAL COMPLETION.</p> <p>A. GENERAL CONTRACTOR SHALL PAY FOR ALL SCAVENGER SERVICES, BE RESPONSIBLE FOR REMOVAL OF DEBRIS FOR ALL TRADES (INCLUDING OTHER CONTRACTORS AND VENDORS) AND FOR KEEPING THE JOB SITE CLEAN AT ALL TIMES.</p> <p>B. TENANT GENERAL CONTRACTOR TO PROVIDE FINAL DEEP CLEANING OF ALL WOOD, GLASS, AND METAL FIXTURES, STOREFRONT GLAZING INSIDE AND OUT, VACUUMING OF CARPET, MOPPING AND WAXING OF VCT FLOORING, MOPPING AND BUFFING OF SOLID VINYL FLOORING PRIOR TO TURN OVER TO OPERATING COMPANY.</p> <p>18. RECORD DRAWINGS/O&M MANUALS: MAINTAIN, ON SITE, ONE SET OF CONTRACT DOCUMENTS TO BE UTILIZED FOR RECORD DRAWINGS. RECORD ALL REVISIONS OF WORK.</p> <p>A. UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE TENANT (COPY TO THE ARCHITECT) ALL GUARANTEES AND/OR WARRANTIES ON ALL EQUIPMENT SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR, AND HIS SUBCONTRACTORS.</p> <p>B. UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SUBMIT (ON REPRODUCIBLE MYLAR) ONE SET OF AS-BUILT DRAWINGS INDICATING ALL CHANGES AND MODIFICATIONS MADE TO THE PROJECT DURING CONSTRUCTION.</p> <p>B.A. PROVIDE THE LANDLORD WITH COPIES OF RECORD DRAWINGS AND O & M MANUALS AS REQUIRED.</p> <p>19. PUNCH LIST/CLOSE-OUT: UPON NOTIFICATION, THE ARCHITECT & TENANT SHALL PREPARE A PUNCH LIST OF THE PROJECT AND THE GENERAL CONTRACTOR SHALL MAKE GOOD ALL PUNCH LIST ITEMS TO THE SATISFACTION OF THE ARCHITECT /TENANT PRIOR TO FINAL PAYMENT.</p> <p>THE GENERAL CONTRACTOR SHALL:</p> <ul style="list-style-type: none"> -FINAL CLEAN SITE. -RESOLVE ALL PUNCH LIST ITEMS. -TEST AND BALANCE HVAC SYSTEM. -SUBMIT TWO COPIES OF ALL O&M MANUALS. -SUBMIT COPIES OF MANUFACTURER'S WARRANTIES. -SUBMIT RECORD DRAWINGS. -LEAVE ON SITE ATTIC STOCK FOR CEILING TILE AND FLOOR TILE. <p>NOTE: THE GENERAL CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ANY EXPENSES INCURRED BY THE ARCHITECT FOR ADDITIONAL VISITS AS A RESULT OF PUNCH LIST ITEMS NOT CORRECTED BEFORE THE FOLLOW-UP VISIT.</p> <p>20. GUARANTEE: THE GENERAL CONTRACTOR SHALL GUARANTEE THE WORK FOR ONE (1) YEAR AFTER THE SUBSTANTIAL COMPLETION OF ALL WORK.</p> <p>A. GUARANTEE/WARRANTY CERTIFICATES BY THE MANUFACTURER SHALL BE SUBMITTED AS APPROPRIATE.</p> <p>B. REFER TO OTHER SECTION OF THE SPECIFICATION FOR ADDITIONAL GUARANTEE/WARRANTY REQUIREMENTS.</p> <p>DIVISION 02: SITE WORK:</p> <p>1. REFER TO THE ARCHITECTURAL DRAWINGS FOR ANY NOTES RELATED TO DEMOLITION WORK.</p> <p>2. THE GENERAL CONTRACTOR IS TO DEMOLISH AND REMOVE FROM THE PREMISES IN A MANNER ACCEPTABLE TO ANY JURISDICTIONAL AGENCIES, THE LANDLORD, AND THE APPROVAL OF THE ARCHITECT. ALL WORK SO INDICATED OR REQUIRED BY THE WORK OF THE GENERAL CONTRACTOR ORS AS MAY BE DIRECTED IN THE FIELD BY THE ARCHITECT. THE WORK WHICH IS TO BE REMOVED SHALL INCLUDE ANY EXISTING CONSTRUCTION, FURNISHINGS, EQUIPMENT OR FINISHES NOT TO REMAIN IN THE COMPLETED.</p> <p>3. LAYOUT WORK:</p> <p>A. GENERAL CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY SERVICE LINES AND PROTECT THEM THROUGHOUT THE CONSTRUCTION PERIOD.</p> <p>B. GENERAL CONTRACTOR SHALL LAY OUT WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS, MEASUREMENTS OF THE BUILDING UTILITIES, AND OTHER WORK EXECUTED UNDER THE CONTRACT.</p> <p>C. LANDLORD/TENANT GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AS THEY MAY APPLY TO EXISTING CONDITIONS WITH PARTICULAR EMPHASIS ON DIMENSIONS MARKED "VERIFY" OR VERIFY IN FIELD (V.I.F.) NOTIFY ARCHITECT AND TENANT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS IN WRITTEN FORM, WORK.</p> <p>D. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND TENANT BEFORE PROCEEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>DIVISION 03: CONCRETE WORK:</p> <p>1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A SMOOTH TRANSITION BETWEEN STORE FLOORS AND ADJACENT FLOORS. STORE FLOOR MAY REQUIRE LATEX FEATHERING OR, WHERE POSSIBLE, GRINDING DOWN OF STORE SUBFLOOR TO ALLOW FOR A SMOOTH TRANSITION, IF FLOOR GRINDING IS NOT PERMITTED BY LANDLORD CONTRACT ARCHITECT.</p> <p>2. (WHEN APPLICABLE) NEW OR ADDITIONAL CONCRETE WORK STAIRS, STOOPS, RAMPS, ECT. REFER TO ALL DRAWINGS FOR ADDITIONAL CONCRETE SPECIFICATIONS.</p> <p>DIVISION 04: MASONRY: (WHEN APPLICABLE)</p> <p>1. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MASONRY SPECIFICATIONS.</p> <p>2. PRODUCTS:</p> <p>A. LINTELS AND BOND BEAMS: (IF APPLICABLE)</p> <p>A.A. INSTALL LINTELS WHERE NOTED ON THE DRAWINGS.</p> <p>A.B. INSTALL BOND BEAMS WHERE NOTED ON THE DRAWINGS; REINFORCE AS DETAILED AND GROUT SOLID.</p> <p>B. REMOVE EXCESS MORTAR AND CLEAN SURFACES UPON COMPLETION OF MASONRY INSTALLATION.</p> <p>DIVISION 05: METALS:</p> <p>1. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS RELATED TO STRUCTURAL METAL WORK.</p> <p>2. (WHEN APPLICABLE) REFER TO ALL DRAWINGS FOR ADDITIONAL ARCHITECTURAL METAL WORK, RAILINGS, REFER HANDRAILS, ETC.</p> <p>DIVISION 06: WOOD AND PLASTIC:</p> <p>1. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, ROUGH CARPENTRY (WOOD BLOCKING) AND FINISH CARPENTRY (CABINETS, WOOD TRIM, HARDWARE AND ACCESSORIES).</p> <p>2. ROUGH CARPENTRY: WOOD BLOCKING</p> <p>A. PROVIDE SOLID BLOCKING IN STUD WALLS WHERE ALL FIXTURES OR DEVICES ARE TO BE MOUNTED. ALL WOOD BLOCKING SHALL BE</p>	<p>FIRE RESISTANT TREATED.</p> <p>B. ALL DIMENSIONAL LUMBER TO BE FIRE RETARDANT WITH U.L. RATING "NON-COMBUSTIBLE."</p> <p>3. FINISH CARPENTRY: CABINETS, AND WOOD TRIM:</p> <p>A. ALL MILLWORK SHALL COMPLY WITH THE APPROPRIATE SPECIFICATIONS OF THE ARCHITECTURAL QUALITY STANDARDS ILLUSTRATED ON THE AMERICAN WOODWORK INSTITUTE (AWI) FOR "CUSTOM" GRADE MILLWORK.</p> <p>B. PAINT GRADE FINISH LUMBER SHALL BE "POPULAR" OR "BIRCH" SANDED SMOOTH AND FREE OF BLEMISHES OR ABRASIONS. ALL WOOD SHALL HAVE TIGHT AND UNIFORM JOINTS.</p> <p>C. MILLWORK CONTRACTOR SHALL VERIFY ALL DIMENSIONS AFFECTING HIS WORK IN THE FIELD PRIOR TO FABRICATION.</p> <p>D. FIXTURE MILLWORK AS NOTED ON DRAWINGS IS SUPPLIED BY TENANT AND INSTALLED BY GENERAL CONTRACTOR.</p> <p>E. SOME FIELD ASSEMBLY OF MILLWORK IS REQUIRED. FOLLOW SHOP DRAWING ACCOMPANYING MILLWORK. ALL FIELD ASSEMBLED MILLWORK TO BE SCRIBED AND JOINED ACCURATELY.</p> <p>F. INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.</p> <p>G. MAKE ALL JOINTS INCONSPICUOUS MAINTAINING A UNIFORM FLUSH CONNECTION USING COMBINATION OF SCREWS, DOWELS AND GLUE. BLIND FASTENERS WHERE POSSIBLE. WHERE BLIND FASTENINGS IS IMPOSSIBLE, DRILL HOLES UNIFORMLY, SET AND PUTTY HEADS AND FINISH AS APPLICABLE TO.</p> <p>4. PLASTIC LAMINATES:</p> <p>A. ALL LAMINATE SURFACES, EDGES AND ADJACENT MATERIALS TO BE FREE OF ALL ADHESIVES, MARKINGS, CHIPS AND SURFACE BLEMISHES. REMOVE WRAPPINGS.</p> <p>B. PLASTIC LAMINATES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL EDGES TO BE FLUSH, TRUE AND STRAIGHT, WITHOUT GAPS. ADJACENT LAMINATED PANELS TO BE CONCEALED SPLINE JOINTS.</p> <p>C. LAMINATE TO BE INSTALLED OVER MEDIUM DENSITY PARTICLE BOARD. SPACKLE AND SAND SMOOTH TO AVOID TELEGRAPHING OF FASTENER LOCATIONS, BACKER EDGES, ETC.</p> <p>D. ALL LAMINATE WORK TO BE FASTENED WITH CONCEALED MECHANICAL FASTENERS ATTACHED TO SUBSTRATE FRAMING AND WITH ADHESIVES. SET WITH BLOCKS AND CLAMPS UNTIL ADHESIVES HAVE DEVELOPED ADEQUATE BONDING STRENGTH.</p> <p>DIVISION 07: THERMAL & MOISTURE PROTECTION:</p> <p>1. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, VAPOR BARRIER, BUILDING INSULATION, MEMBRANE ROOFING SYSTEM, EIFS SYSTEM, FLASHING, COPING/FASCIA, AND SEALANTS.</p> <p>2. BUILDING INSULATION (WHEN APPLICABLE):</p> <p>A. CEILING INSULATION - SOUND BATTS: 3 1/2" THICK SOUND ATTENUATION BATT INSULATION CONFORMING TO ASTM 0865 AS MANUFACTURED BY OWENS CORNING FIBERGLASS "FIBROCODE 60", R19.</p> <p>B. WALL INSULATION - THERMAL BATT - 1 1/2" THICK FOULCATED BATT INSULATION - TYPE 705, R 6.5</p> <p>C. WALL INSULATION - THERMAL BATT - 3 1/2" THICK FOULCATED BATT INSULATION - TYPE 705, R 15.2 (WHEN APPLICABLE)</p> <p>DIVISION 08: DOORS, WINDOWS & GLASS:</p> <p>1. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, WOOD AND METAL DOORS AND FRAMES, METAL WINDOWS, GLASS AND GLAZING AND HARDWARE.</p> <p>2. WOOD AND STEEL DOORS (WHEN APPLICABLE):</p> <p>A. STEEL DOORS (EXTERIOR); GRADE II EXTRA HEAVY DUTY, SEAMLESS COMPOSITE CONSTRUCTION, SHOP PRIMED, WITH INSULATED CORE AND FIRE RATED AS NOTED ON THE DRAWINGS. ACCEPTABLE MANUFACTURERS INCLUDE CECO, KEYWANE OR STEELCRAFT.</p> <p>B. WOOD DOORS (INTERIOR): 1 3/4" THICK SOLID CORE AND HOLLOW CORE CONSTRUCTION WITH WOOD VENEER FACES, FABRICATED DOORS IN ACCORDANCE WITH AWI STANDARDS.</p> <p>B.A. VENEER TO BE BIRCH, ROTARY SLICED WITH RANDOM MATCH GRAIN FOR PAINT FINISH.</p> <p>B.B. PROVIDE CUTOUTS FOR GLAZING AS NOTED ON THE DRAWINGS.</p> <p>3. METAL FRAMES (WHEN APPLICABLE):</p> <p>A. METAL FRAMES (EXTERIOR); 16 GAUGE WITH INSULATED CORE, SHOP PRIMED, WELDED FRAMES AND 4" MASONRY HEAD.</p> <p>B. METAL FRAMES (INTERIOR); 16 GAUGE, SHOP PRIMED, KNOCKDOWN TYPE FOR DRYWALL SLIP-ON ASSEMBLY, UNLESS OTHERWISE NOTED.</p> <p>4. ALUMINUM DOORS AND WINDOWS (WHEN APPLICABLE):</p> <p>A. ALUMINUM SYSTEM SHALL MATCH EXISTING STOREFRONT SYSTEM. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR FABRICATION AND INSTALLATION.</p> <p>B. ALUMINUM ENTRANCE DOORS SHALL MATCH EXISTING STOREFRONT SWINGING DOORS WITH INTERMEDIATE MULLIONS AS SHOWN ON THE DRAWINGS.</p> <p>C. COLOR TO MATCH EXISTING PROPERTY STOREFRONT.</p> <p>5. HARDWARE: FURNISH AND INSTALL HARDWARE AS NOTED ON THE HARDWARE/SCHEDULE.</p> <p>6. GLASS (WHEN APPLICABLE):</p> <p>A. GLASS (EXTERIOR) STOREFRONT TO MATCH EXISTING ADJACENT GLAZING. GLAZING TO BE TEMPERED WHERE REQUIRED BY CODE.</p> <p>B. ALL INTERIOR STOREFRONT GLASS TO BE PURCHASED BY G.C. GLASS SHALL BE 1/2" TEMPERED GLASS AS MANUFACTURED BY PPG INDUSTRIES.</p> <p>C. FLOAT GLASS (INTERIOR, WHEN APPLICABLE); CLEAR, 1/4" THICKNESS.</p> <p>D. WIRE GLASS VISION PANEL (WHEN APPLICABLE); CLEAR FULLY TEMPERED, 1/4" THICKNESS</p> <p>E. PROVIDE NEOPRENE GASKETS AND GLAZING TAPE AT ALL STOPS (INTERIOR GLAZING).</p> <p>F. MIRRORS TO HAVE ELECTROPLATED COPPER BACKS. EXPOSED MIRROR EDGES TO BE POLISHED AND CONCEALED EDGES TO BE PAINTED FLAT BLACK. USE NON-STAINING MIRROR MASTIC FOR CEILING MIRRORS TO WALL. MIRRORS CEMENTED TO WALL SHALL HAVE A CONTINUOUS BEAD OF SILICONE CEMENT AROUND ENTIRE EDGE OF MIRROR AND WALL.</p> <p>DIVISION 09: FINISHES:</p> <p>1. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO: GYPSUM BOARD SYSTEMS, SUSPENDED ACOUSTICAL CEILINGS, RESILIENT FLOORING, CARPET, PAINTING AND WALL COVERING AND FLOOR COVERING.</p> <p>A. ALL EXIT WAY WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NOT MORE THAN CLASS I AND FLAME SPREAD INDEX OF 75 OR LESS. ALL OTHER WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NOT MORE THAN CLASS II AND FLAME SPREAD OF 200 OR LESS.</p> <p>2. GYPSUM BOARD SYSTEMS: INCLUDES METAL STUDS AND GYPSUM BOARD WALLS AND ALL REQUIRED METAL BEADS, CORNER TRIM, FASTENING DEVICES, ETC.</p> <p>A. ALL GYPSUM BOARD WALLS AND CEILINGS SHALL BE BUILT IN ACCORDANCE WITH THE GUIDELINES OF THE MOST RECENT VERSION OF THE "GYPSUM CONSTRUCTION HANDBOOK" OF THE UNITED STATES GYPSUM COMPANY.</p> <p>B. GYPSUM BOARD SHALL BE 5/8" THICK TYPE AS INDICATED ON THE DRAWINGS. ALL DRYWALL TO BE TAPED, RECEIVE THREE COATS SPACKLE, SANDED. ALL CORNERS AND EDGES TO HAVE METAL CORNER BEAD BEDDED AND SANDED FOR FINISH.</p> <p>C. METAL STUDS SHALL BE 20 GAUGE GALVANIZED STEEL, "C" SHAPED. FASTENERS SHALL BE TYPE "W" DRYWALL SCREWS. STRUCTURAL STUDS - CEE (WHEN REQUIRED) SHALL BE BY DALE/INCOR.</p> <p>D. PROVIDE SOUND INSULATION IN PARTITIONS WHERE NOTED ON DRAWINGS.</p> <p>E. ACCESS DOORS, WHERE INDICATED OR AS REQUIRED, SHALL BE PROVIDED TO ALL CONTROL DEVICES, CLEAN OUTS, DAMPERS, AND THE MIXED AIR DISCHARGE AND INTAKE PLENUMS AT THE HVAC UNIT (VERIFY WITH LANDLORD) BY G.C.</p> <p>3. SUSPENDED CEILING SYSTEM: (WHEN APPLICABLE)</p> <p>3.1. 2XZ ACOUSTICAL CEILING AND GRID SYSTEM.</p> <p>A. CEILING TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S PUBLISHED SPECIFICATIONS AND CURRENT BULLETIN OF ACOUSTICAL MATERIALS ASSOCIATION - JOB CONDITIONS.</p> <p>B. SUSPENSION SYSTEM TO BE RIGID CEILING GRID SYSTEM WITH CROSS FURRING CHANNELS - DIRECT SUSPENSION SYSTEM.</p> <p>C. ALL FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE PLACED IN CENTER OF CEILING TILE UNLESS DIMENSIONED OTHERWISE.</p> <p>4. RESILIENT FLOORING AND BASE: INCLUDES VINYL TILE, COMPOSITION TILE, VINYL BASE, AND (WHEN APPLICABLE) SHEET VINYL.</p> <p>A. PRODUCTS - AS INDICATED IN THE FINISH SCHEDULE.</p> <p>B. INSTALLATION:</p> <p>B.A. VINYL COMPOSITION, & VINYL TILE FLOORS TO BE PROPERLY PREPARED WITHOUT HOLES, CRACKS AND BUMPS TO INSURE A FIRST CLASS FLOOR INSTALLATION.</p> <p>B.B. VINYL COMPOSITION FLOOR TILE AND VINYL TILE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.</p> <p>B.C. VINYL BASE ROLLED SMOOTH, CORNERS AND EDGES TO BE TRUE AND TIGHT, SEAM SEALER TO BE APPLIED. SIZE OF SMALLEST PIECE TO BE 8" HIGH LENGTH.</p> <p>B.D. ALL VINYL BASE SHALL BE FURNISHED WITH PREFORMED INSIDE AND OUTSIDE CORNERS.</p> <p>B.E. CONCRETE SUBSTRATE - SHALL BE CLEAN, SMOOTH AND FREE OF DEFECTS.</p> <p>B.F. AFTER INSTALLATION, CLEAN, SEAL AND WAX FLOOR PER THE MANUFACTURER'S INSTRUCTION.</p> <p>C. DELIVER TO OWNER REPLACEMENT TILES IN THE AMOUNT OF 10% OF MATERIALS (ATTIC STOCK).</p> <p>5. CERAMIC TILE (WHEN APPLICABLE):</p> <p>A. PREPARATION OF SURFACES:</p> <p>A.A. SUBSTRATE SHALL BE FURNISHED CLEAN, SMOOTH AND LEVELLED TO A TOLERANCE OF NO MORE THAN 1/4" IN TEN FEET. JOINTS, CONSTRUCTION SEAMS, AND OTHER IRREGULARITIES ARE TO BE FILLED, LEVEL, AND SMOOTH WITH QUALITY PRODUCTS MEETING INDUSTRY STANDARDS SPECIFIED BY THE NATIONAL TILE CONTRACTORS ASSOCIATES, INC. OR THE TILE COUNCIL OF AMERICA. ALL CONTAMINANTS SUCH AS GREASE, WAX, OIL, SEALERS CURING MEMBRANES, AND OLD ADHESIVE MUST BE COMPLETELY REMOVED. EXPANSION JOINTS MUST BE PROVIDED AS PER SPECIFICATIONS AND MATERIALS DETAILED BY TILE COUNCIL OF</p>	<p>AMERICA INSTALLATION HANDBOOK, SEE E1171-88.</p> <p>A.B. ALL CONCRETE MUST BE SQUARED (ALSO AFTER PATCHING OR LEVELING) WITH 3-1/2" OPEN GRID PAPER TO LOOSEN DIRT AND REMOVE WEAK CONCRETE.</p> <p>B. INSTALLATION OF FLOORING:</p> <p>B.A. INSTALLATION PROCEDURES WILL BE THIN SET METHODS IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS CONTAINED IN EACH BOX OF MATERIAL. ACCEPTED METHODS BY THE TILE COUNCIL OF AMERICA INCLUDING USING THE PROPER TROWEL (1/4" X 3/8" X 1/4"), BEATING-IN AND BACK-BUTTERING, THESE TECHNIQUES, ESPECIALLY FOR LARGER TILE, MUST BE FOLLOWED TO OBTAIN PROPER TRANSFER AND LEVELNESS.</p> <p>B.B. CLOSE AREA TO NORMAL TRAFFIC FOR 24 HOURS (OR LONGER) DEPENDING ON TYPE OF MATERIAL AND MANUFACTURER'S RECOMMENDATION. FLOORING WILL BE PROTECTED FROM CONSTRUCTION TRAFFIC AFTER LAYING AND GROUTING.</p> <p>B.C. PROVIDE SETTING AND MATERIALS OBTAINED FROM ONE SOURCE FOR EACH TYPE AND COLOR OF GROUT AND SETTING MATERIALS.</p> <p>6. CARPETING: (WHEN APPLICABLE)</p> <p>A. INSTALLATION:</p> <p>A.A. PREPARE SUBSTRATE FOR CARPET:</p> <p>CLEAN, SCRAPE, FILL AND LEVEL FLOOR AS REQUIRED FOR NEW CARPET.</p> <p>A.B. INSTALLATION TO BE DIRECT/GLUE-DOWN METHOD, USING LATEX MASTIC - ROBERT SEAM SEALER #4015, CAPITAL ADHESIVES OR EQUAL.</p> <p>A.C. GENERAL CONTRACTOR TO INSTALL METAL ANGLE PER DETAIL ON DRAWINGS, MITER CUT CORNERS AND NAIL TO SUBFLOOR.</p> <p>A.D. ALL DEBRIS TO BE LEGALLY REMOVED PRIOR TO PREMISES. SEE NOTE #6.</p> <p>A.E. SEE SHT. A-1 FOR TRANSITION STRIP LOCATIONS AND FINISH SCHEDULE THIS SHT. FOR ROLLS.</p> <p>A.F. CLEAN AND VACUUM AFTER INSTALLATION. ANY SCRAPS LARGER THAN 4" SHALL BE REPELLED AND TURNED OVER TO THE TENANT (ATTIC STOCK).</p> <p>7. PAINTING:</p> <p>A. PAINT SHALL BE MANUFACTURER AND COLOR AS NOTED IN THE SCHEDULES.</p> <p>B. ALL SURFACES TO RECEIVE PAINT SHALL BE PROPERLY PREPARED AND SHALL BE CLEAN AND FREE OF DUST, BLEMISHES AND ABRASIONS PRIOR TO APPLICATION OF FINISH. G.C TO FOLLOW FLOOR COVERING MANUFACTURER SPECIFICATIONS FOR APPLYING PAINT & FURNISH & INSTALL MOISTURE BARRIER AS ACCEPTABLE TO PAINT MANUFACTURER. IF TEST RESULTS DETERMINE THAT ADDITIONAL MOISTURE PROTECTION IS REQUIRED, ALL WORK SHALL BE PERFORMED AS PART OF INITIAL CONTRACT & SHALL BE INCLUDED IN INITIAL BID. EXTRAS WILL NOT BE ALLOWED.</p> <p>C. ALL SURFACES TO BE PAINTED SHALL RECEIVE ONE (1) COAT OF PRIMER AND TWO (2) FINISH COATS.</p> <p>D. PAINT COLORS-SEE FINISH SCHEDULE.</p> <p>E. GENERAL CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN WOOD TRIM.</p> <p>F. ALL ELECTRICAL PLATES AND DEVICES TO RECEIVE FINISH AS NOTED ON EMP SPECIFICATIONS.</p> <p>8. ENGINEERED WOOD FLOORING:</p> <p>A. MATERIALS:</p> <p>A.A. PROVIDE MATERIALS AS NECESSARY FOR A COMPLETE INSTALLATION.</p> <p>A.B. UNDER FLOOR MATERIAL, TO BE AS SPECIFIED IN FINISH SCHEDULE.</p> <p>A.C. FINISHES TO BE AS SPECIFIED IN THE FINISH SCHEDULE.</p> <p>B. INSTALLATION:</p> <p>B.A. INSTALL PER MANUFACTURER'S DIRECTIONS.</p> <p>B.B. PROVIDE MOISTURE TEST</p> <p>B.C. PROVIDE MANUFACTURER RECOMMENDED MOISTURE BARRIER AS NEEDED</p> <p>DIVISION 10: MISCELLANEOUS SPECIALTIES:</p> <p>1. SCOPE OF WORK INCLUDES TOILET ROOM ACCESSORIES AND ANY OWNER SUPPLIED MISCELLANEOUS SPECIALTIES.</p> <p>2. TENANT'S GENERAL CONTRACTOR (TGC) SHALL INSTALL OWNER SUPPLIED MISCELLANEOUS SPECIALTIES (AS NOTED).</p> <p>3. ALL EXTERIOR ILLUMINATED STORE SIGNS SHALL BE FURNISHED AND INSTALLED BY TENANT SIGN CONTRACTOR, TENANT SIGN CONTRACTOR TO PROCURE ALL NECESSARY APPROVALS AND PERMITS, PRIOR TO FABRICATION AND/OR INSTALLATION OF SIGNS. GENERAL CONTRACTOR TO PROVIDE FINISHED SIGN FASCIA AND ACCESS TO BULKHEAD INTERIOR AS REQUIRED FOR ELECTRICAL WIRING AND CONNECTION. FINAL CONNECTION BY</p>	<p>1. THE CONTRACTOR SHALL REVIEW DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN.</p> <p>2. THE CONTRACTOR SHALL MAINTAIN FOR THE ENTIRE DURATION OF THE WORK, ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND ALARMS, SPRINKLERS IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES.</p> <p>3. CONTRACTOR SHALL NOT DISTURB THE DELIVERIES AND FUNCTION OF ADJACENT TENANTS OR BUILDINGS OPERATION DURING THE ENTIRE DURATION OF THE PROJECT.</p> <p>4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. FLOOR PLAN PREPARED BY ARCHITECT SUPERSEDE ALL OTHERS. ALL DIMENSIONS MARKED OR NOTED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES.</p> <p>5. THESE GENERAL CONDITIONS APPLY TO ALL DRAWINGS IN THIS SET AND SHALL EXTEND TO ANY CHANGES, EXTRAS OR ADDITIONS AGREED TO DURING THE COURSE OF THE WORK.</p> <p>6. ALL WORK IS TO CONFORM WITH ARCHITECT'S DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AS REQUIRED TO FULFILL THE INTENTIONS OF THE DOCUMENTS.</p> <p>7. ALL CONSTRUCTION SHALL CONFORM TO AND BE IN ACCORDANCE WITH, THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.</p> <p>8. ALL WORK SHALL BE COMPLETED FOR THE AGREED CONTRACT PRICE WITHOUT RECOURSE TO LABOR STOPPAGES OR REVISIONS OF GOVERNING REGULATIONS, LAWS AND CODES. UNLESS NOTED BY THE CONTRACTOR(S) IN THE BID FOR THE PROJECT, ALL WORK SHALL BE COMPLETED AS SHOWN WITHOUT LIMITATIONS, EXCLUSIONS OR MODIFICATIONS.</p> <p>9. AFTER THE JOB IS IN PROGRESS, THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY ADDITIONAL WORK OR CHANGES FOR WHICH ADDITIONAL COMPENSATION IS EXPECTED WITHOUT WRITTEN CHANGE ORDER AUTHORIZED BY THE TENANT/OWNER OR ARCHITECT (IF APPOINTED AS THE OWNER/TENANTS REPRESENTATIVE. FAILURE TO OBTAIN PRIOR AUTHORIZATION CAN INVALIDATE A CLAIM FOR ADDITIONAL COMPENSATION.</p> <p>10. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD'S RULES AND REGULATIONS ON MATERIAL HANDLING, EQUIPMENT, DEBRIS, ELEVATOR AND/OR LOADING DOOR AVAILABILITY, AND ALL THERE TENANT CONSTRUCTION REGULATIONS.</p> <p>11. MAINTAIN ALL EXISTING BUILDING SERVICES IN USE AT ALL TIMES UNLESS PERMISSION IS RECEIVED IN WRITING FROM THE LANDLORD TO TEMPORARILY INTERRUPT SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE PROJECT WORK WHETHER WITHIN OR OUTSIDE OF THE CONTRACT LIMIT LINES.</p> <p>12. ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS UNLESS AUTHORIZED IN WRITING BY THE LANDLORD AND/OR OWNER/TENANT.</p> <p>13. IF APPLICABLE TO THE PROJECT, PASSENGER ELEVATORS SHALL NOT BE USED BY THE TRADES AT ANY TIME DURING THE PERFORMANCE OF THE WORK.</p> <p>14. TIME IS OF THE ESSENCE AND THE CONTRACTOR(S) SHALL KEEP SUFFICIENT PERSONNEL ON THE JOB AT ALL TIMES TO PERFORM THE WORK IN THE MOST EXPEDITIOUS MANNER CONSISTENT WITH GOOD WORKSMANSHIP, AND SOUND BUSINESS PRACTICE. THE CONTRACTOR(S) SHALL CONFIRM THAT ALL ITEMS WILL BE ORDERED, FABRICATED AND INSTALLED PRIOR TO THE AGREED UPON COMPLETION DATE. EXCEPTIONS WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION OF THE OWNER/TENANTS REPRESENTATIVE PRIOR TO THE PLACEMENT OF THE ORDER.</p> <p>15. THE CONTRACTOR(S) SHALL PROVIDE TEMPORARY WALLS, ENCLOSURES, AND DUST PROOF BARRICADES AS REQUIRED FOR SAFETY, TO CONTROL AND MINIMIZE DUST FROM DEMOLITION AND CONSTRUCTION OPERATIONS, AND TO EFFECTIVELY SEPARATE WORK AREAS FROM OTHER OCCUPIED AREAS. THE CONTRACTOR(S) SHALL EXERCISE ALL DUE CARE AND BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS AND PROVIDE PROTECTION DEVICES TO MAINTAIN SAME. VERIFY WITH OWNER/TENANT AND LANDLORD ANY SPECIAL REQUIREMENTS TO PROTECT BUILDING SYSTEMS, EQUIPMENT OR COMPUTERS.</p> <p>16. DO NOT CLOSE, OBSTRUCT, OR STORE MATERIAL IN WALKWAYS, PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS.</p> <p>17. NO USE OF ARC WELDING BLOWTorch EQUIPMENT SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER/TENANT OR LANDLORD.</p> <p>18. CONTRACTOR(S) MUST PROVIDE TEMPORARY LIGHTING FOR THE PERFORMANCE OF HIS WORK AS WELL THAT REQUIRED TO INSURE PUBLIC SAFETY IN OR AROUND THE PREMISES.</p> <p>19. REMOVE DEBRIS AS WORK PROGRESSES. MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION. THE FURNISHING OF REFUSE CONTAINERS, CARTS, EQUIPMENT, LABOR AND THE SCHEDULING OF ELEVATOR AND/OR LOADING DOCK (IF APPLICABLE TO PROJECT) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S). UPON COMPLETION OF ALL WORK, REMOVE ALL MATERIALS AND RUBBISH OF ANY SORT AND PROVIDE FINAL CLEAN UP OF PREMISES.</p> <p>20. GENERAL CONTRACTOR IS TO COORDINATE ALL DELIVERIES WITH THE LANDLORD'S DESIGNATED REPRESENTATIVES</p> <p>21. GENERAL CONTRACTOR IS TO ACQUIRE AND CONFORM TO THE LANDLORD'S CRITERIA AND CONDITIONS FOR GENERAL CONTRACTORS.</p> <p>22. TENANT GENERAL CONTRACTOR IS NOT PERMITTED TO ATTACH OR SUSPEND ANY COMPONENTS / EQUIPMENT TO THE BOTTOM CHORD OF JOISTS OR TO THE ROOF DECK. ALL WALL CONSTRUCTION SHALL BE SUPPORTED BY THE TOP CHORD OF THE STRUCTURAL JOISTS.</p> <p>23. COORDINATE ALL FLOOR CUTS WITH THE OPERATIONS DIRECTOR FOR THE PROPERTY</p> <p>24. ALL FIRE SPRINKLER WORK IS TO BE COMPLETED BY THE LANDLORD APPROVED SPRINKLER CONTRACTOR, AT THE GENERAL CONTRACTOR'S EXPENSE. COORDINATE THIS WORK WITH THE ON SITE LANDLORD REPRESENTATIVE.</p> <p>25. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGES DONE TO THE LANDLORD / PROPERTY PROPERTY AT THEIR OWN EXPENSE.</p> <p>26. SIGNAGE SHOP DRAWINGS MUST BE SUBMITTED FOR LANDLORD AND CITY REVIEW AND APPROVAL.</p> <p>27. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION BARRICADE AND TRASH DUMPSTERS AT THEIR OWN EXPENSE AND SHALL BE COORDINATED WITH LANDLORD'S REPRESENTATIVE.</p> <p>28. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LANDLORD / PROPERTY RULES AND REGULATIONS OR AS DIRECTED BY THE ON SITE LANDLORD REPRESENTATIVE.</p> <p>29. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS AND MUST NOTIFY THE ARCHITECT / OWNER IMMEDIATELY IF SITE CONDITIONS CONFLICT WITH THESE PLANS.</p> <p>30. APPROVAL OF THE TENANT'S CONSTRUCTION DOCUMENTS AND SPECIFICATIONS DOES NOT RELEASE THE TENANT OR THE TENANT'S GENERAL CONTRACTOR FROM COMPLYING WITH THE LEASE AGREEMENT AND ALL APPLICABLE BUILDING CODES AND GOVERNING REGULATIONS.</p>
\$500,000.00	PER ACCIDENT																																	
\$500,000.00	DISEASE																																	
\$4,000,000.00	EACH OCCURRENCE																																	
\$4,000,000.00	AGGREGATE																																	
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\$2,000,000.00	EACH OCCURRENCE																																	
PROPERTY DAMAGE:																																		
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\$2,000,000.00	EACH OCCURRENCE																																	
<p>- SPECIFICATIONS</p>	<p>- GENERAL NOTES</p>	<p>IT IS THE TENANT'S GENERAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND VERIFY EXACT LOCATION OF LEASE LINE WITH LANDLORD REPRESENTATIVE. CONTRACTOR MUST NOTIFY ARCHITECT / OWNER IMMEDIATELY OF ANY DISCREPANCIES.</p>	<p>-</p>	<p>-</p>																														



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THE ABOVE DRAWINGS AND SPECIFICATIONS AND DESIGN DECISIONS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL

ACCESSIBILITY NOTES:

TENANT MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL LOCAL AND STATE CODES.

DOOR HARDWARE: HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED 2'-10" A.F.F. AND BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.

DOOR EFFORT: MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.

SMOOTH DOOR BOTTOM: THE BOTTOM OF ALL DOORS SHALL (EXCEPT SLIDING AUTOMATIC) HAVE A SMOOTH UNINTERRUPTED SURFACE.

REQUIRED DOOR OPENING WIDTH & SIZE: ALL REQUIRED EXIT DOORWAYS SHALL HAVE A MIN. 32" CLEAR OPENING WITH THE DOOR AT 90° TO THE CLOSED POSITION. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3'-0" IN WIDTH & NOT LESS THAN 6'-8" IN HEIGHT.

THRESHOLD HEIGHT: MAXIMUM HEIGHT OF THRESHOLD SHALL BE 1/2" WITH VERTICAL CHANGE AT EDGE OF 1/2 WITH A MAXIMUM LEVEL OF 45 DEGREES CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

FAUCET LEVERS: ALL FAUCET CONTROLS FOR SINKS (EXISTING AND/OR NEW) ARE TO BE OPERABLE WITH LEVER TYPE CONTROLS.

PLUMBING PROTECTION: ALL EXPOSED PLUMBING IS TO BE WRAPPED WITH INSULATION.

DOOR OPERABILITY: LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITH OUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

CHANGES IN LEVEL: ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 1/2" IN HEIGHT. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE OF NO GREATER THAN 1:12, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.

DOOR LANDING AREAS: THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHOULD BE LEVEL AND CLEAR IN THE LENGTH AND THE DIRECTION OF THE DOOR SWING AT LEAST 60", AND THE LENGTH ON THE OPPOSITE SIDE OF THE DOOR SWING AT 44" AS MEASURED PERPENDICULAR TO THE PLAN OF THE DOOR IN ITS CLOSED POSITION.

AVAILABLE SIDE ACCESS TO DOORS: THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 24" PAST THE STRIKE EDGE FOR INTERIOR DOORS.

TOILET CONTROLS: TOILET FLUSH CONTROLS PROVIDED & INSTALLED AS PART OF THE WORK SHALL BE OPERABLE WITH ONE HAND, & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROL FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS. NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 LBS.

OTHER FLUSH CONTROLS: OTHER FLUSH CONTROLS PROVIDED & INSTALLED AS PART OF THE WORK SHALL BE OPERABLE WITH ONE HAND, & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROL FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS. NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 LBS.

ACCEPTABLE DEVICE/FIXTURE CONTROLS: FAUCET CONTROLS OR OTHER OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ELECTRICAL & MECHANICAL CONTROLS: THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE THE FINISHED FLOOR OR WORKING PLATFORM. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, HVAC EQUIPMENT SHALL BE NOT LESS THAN 36" OR MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.

FLOOR FINISHES: FLOOR SHALL BE SLIP RESISTANT.

ENTRY SIGNAGE: ALL DISABLED ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

TELEPHONES & DRINKING FOUNTAINS: WHEN PROVIDED, AT LEAST ONE TELEPHONE & ONE DRINKING FOUNTAIN IN THE BUILDING SHALL BE ACCESSIBLE & USABLE BY THE PHYSICALLY DISABLED.

ACCESSIBILITY GENERAL NOTES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELEVATION TAG- SEE DWG. AS NOTED		DETAIL TAG- SEE DWG. AS NOTED		RCP KEY TAG- SEE DWG. AS NOTED		ROOM NUMBER TAG
	INTERIOR ELEVATION TAG- SEE DWG. AS NOTED		PARTITION TYPE TAG- SEE WALL TYPE LEGEND		ELEVATION KEY TAG- SEE DWG. AS NOTED		ELEVATION BENCHMARK
	SECTION TAG- SEE DWG. AS NOTED		PLAN KEY TAG- SEE DWG. AS NOTED		FINISH KEY TAG- SEE DWG. AS NOTED		REVISION TAG

SYMBOL LEGEND

DIVISION OF WORK

DESCRIPTION	EXIST TO REMAIN	DOES NOT APPLY	GENERAL CONTRACTOR AND SUB CONTRACTOR		OWNER		LANDLORD		REMARKS
			FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL	
DIVISION 01: GENERAL REQUIREMENTS									
AS APPLICABLE PERMITS			●	●	●	●			
DIVISION 02: SITE WORK									
BARRICADE / FENCE GRAPHICS (BARRICADE)		●							
DEMOLITION			●	●					
DIVISION 03: CONCRETE									
CHANNEL / CORE SLAB FOR IN FLOOR PLUMBING FIXTURE			●	●					
CHANNEL / CORE SLAB FOR NEW IN FLOOR ELECTRICAL/DATA CONDUIT			●	●					
CHANNEL, LEVEL AND SLOPE CONCRETE SLAB FOR FINISHES AND TRANSITIONS			●	●					
GRINDING AND POLISHING CONCRETE			●	●					
DIVISION 04: MASONRY									
STOREFRONT STONE REPAIR		●	●	●					
MASONRY FINISHES (SEE FINISH LEGEND ON A0.1)		●	●	●					
DIVISION 05: METALS									
STRUCTURAL FRAMING			●	●					
STRUCTURAL PANEL SYSTEM		●							
STRUCTURAL COLUMNS AND ANGLES		●							
DIVISION 06: WOOD & PLASTICS									
ROUGH CARPENTRY			●	●					
BLOCKING			●	●					
FINISH CARPENTRY			●	●					
DIVISION 07: THERMAL & MOISTURE CONTROL									
CAULK AND SEALANTS			●	●					
INSULATION (SOUND)			●	●					
DIVISION 08: DOORS, WINDOWS & GLASS									
STOREFRONT GLAZING / GLAZING SYSTEM		●							
STOREFRONT SYSTEM		●							
STOREFRONT DOOR AND HARDWARE		●		●	●				
INTERIOR DOORS, FRAMES & HARDWARE		●		●	●				SEE DOOR SCHEDULE
DIVISION 09: FINISHES									
PATCH AND REPAIR DEMISING WALL			●	●					VERIFY CONDITION
INTERIOR METAL STUD FRAMING AND DRYWALL			●	●					SEE A1.1
PATCH AND REPAIR EXISTING DRYWALL AS REQUIRED			●	●					PATCH AS REQUIRED
INTERIOR DRYWALL CEILING			●	●					SEE A2.1
FINISHES			●	●					SEE FINISH SCHEDULE A0.1
FLOORING TRANSITIONS			●	●					
DIVISION 10: MISCELLANEOUS SPECIALTIES									
COMING SOON GRAPHICS				●	●				SEE F2.1
PERMANENT VINYL GRAPHICS				●	●				SEE F2.1
INTERIOR GRAPHICS / SIGNAGE (NON-VINYL)				●	●				SEE F2.1
EXTERIOR AWNINGS			●						
DIVISION 11 AND 12: FURNITURE, FIXTURE AND EQUIPMENT									
UNLOADING FIXTURES				●	●				
STORE FIXTURES				●	●				SEE FIXTURE PLAN
GRAPHIC RAILS, BRACKETS & HARDWARE				●	●				
PROPS AND DISPLAY				●	●				
MANAGEMENT OF OWNER SUPPLIED ITEMS				●	●				
DIVISION 13 AND 14: SPECIAL CONSTRUCTION AND CONVEYING SYSTEMS									
NOT APPLICABLE			●						
DIVISION 16: ELECTRICAL									
LOW VOLTAGE CONDUITS		●		●	●				SEE A6.1 FOR NEW WORK
LOW VOLTAGE WIRING		●		●	●				SEE A6.1 FOR NEW WORK
LOW VOLTAGE WIRING - TERMINATIONS AT THE PATCH PANEL / SWITCH		●		●	●		●		SEE A6.1 FOR NEW WORK
LIGHTING				●	●				USE OWNER REQ'D VENDOR

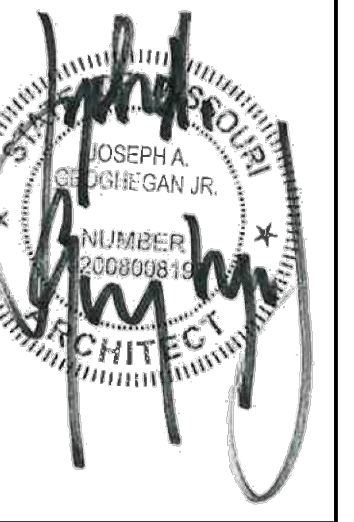


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SUMMIT WOODS CROSSING

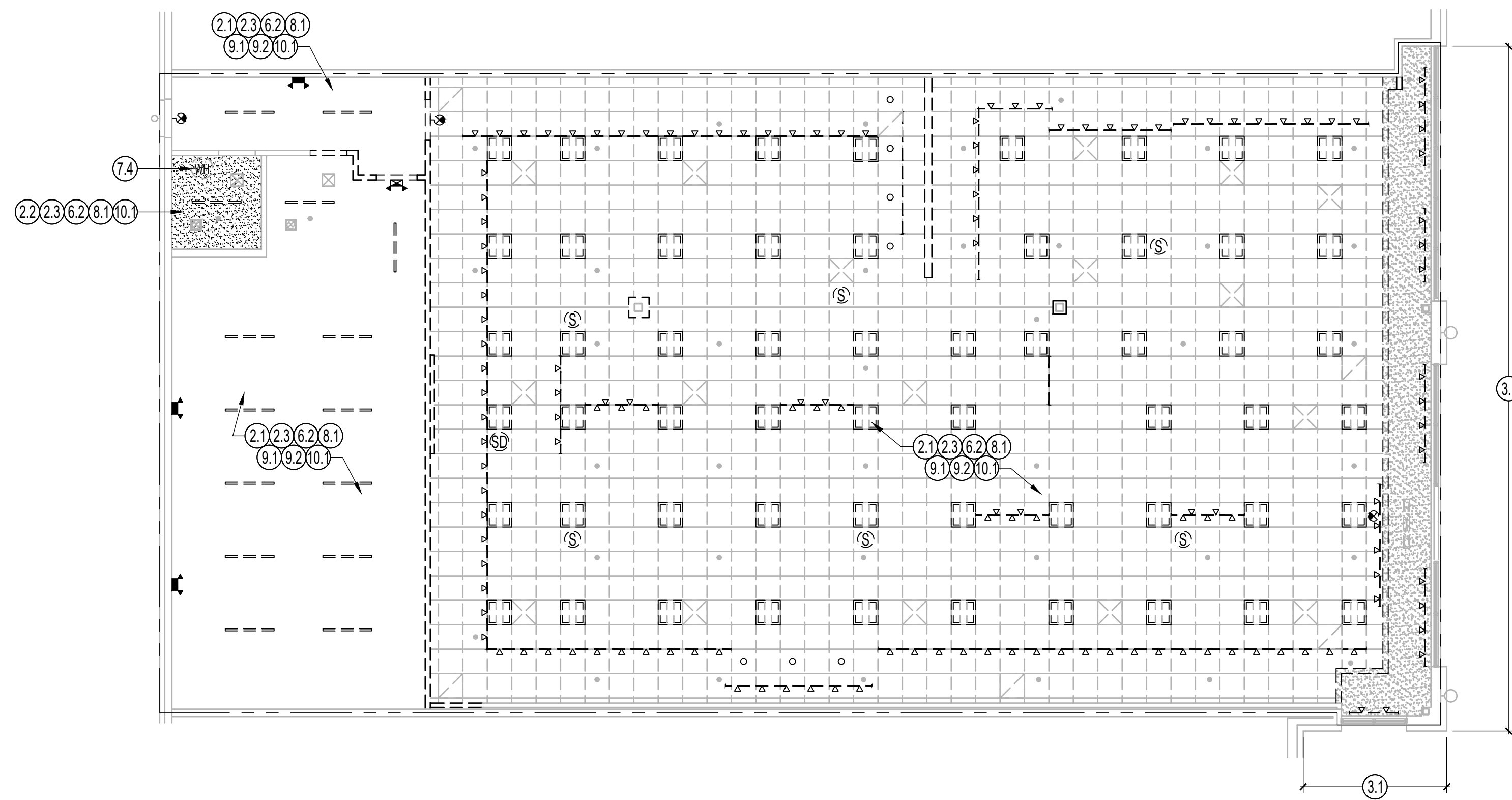
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

DIVISION OF WORK &
SYMBOLS LEGEND

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	G-0.2

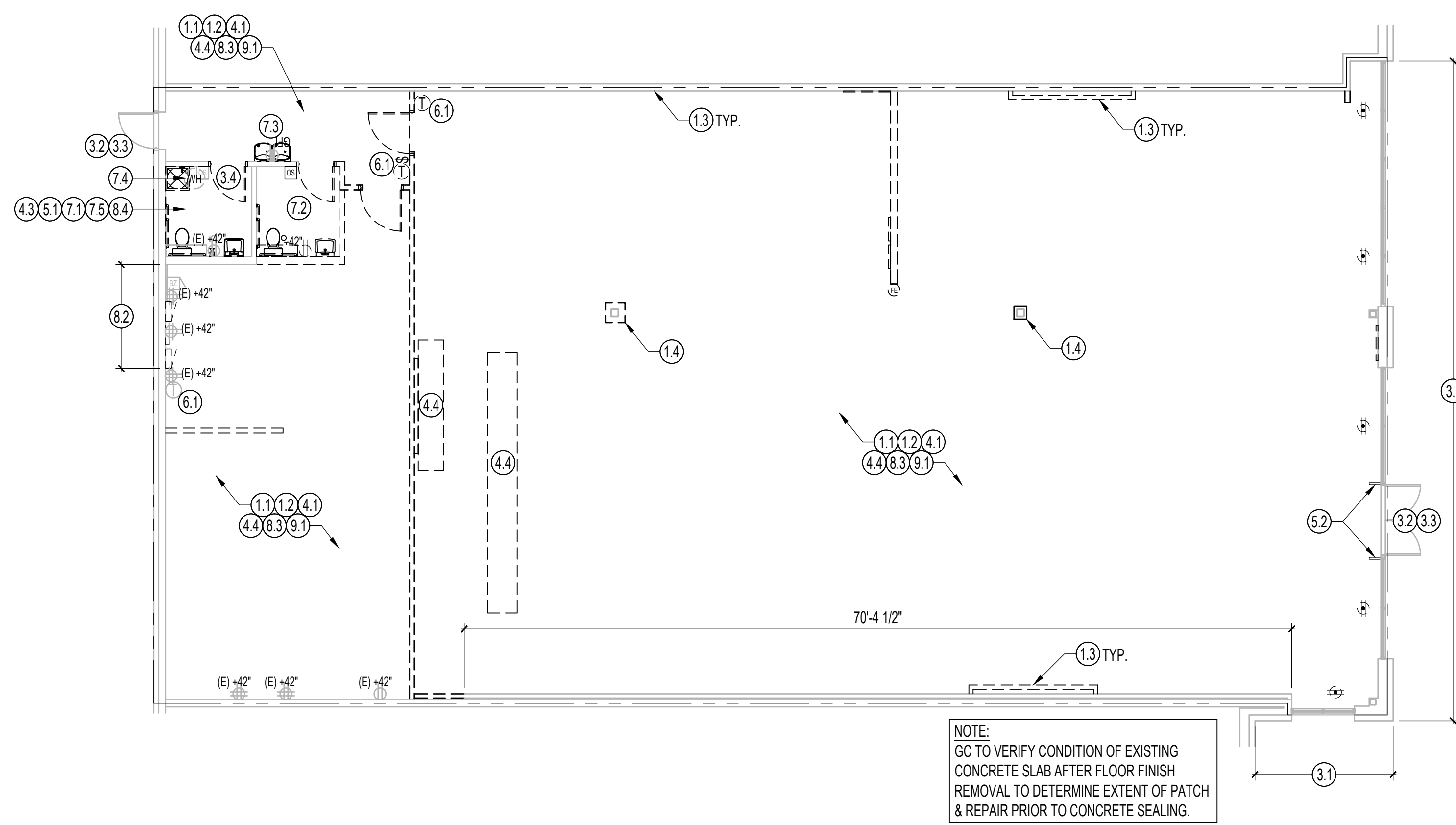
G-0.2

DIVISION OF WORK



2 DEMOLITION CEILING PLAN

SCALE
1/8"=1'-0"



1 DEMOLITION FLOOR PLAN

SCALE
1/8"=1'-0"

NOTE:
GC TO VERIFY CONDITION OF EXISTING
CONCRETE SLAB AFTER FLOOR FINISH
REMOVAL TO DETERMINE EXTENT OF PATCH
& REPAIR PRIOR TO CONCRETE SEALING.

- DEMOLITION PLANS ARE FOR GENERAL SCOPE. GENERAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITION AND COORDINATE REQUIRED DEMOLITION WITH TENANT & TENANT'S ARCHITECT.
- WHEN EXISTING MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES AND/OR EQUIPMENT ARE TO BE REMOVED, THEY ARE TO BE DISCONNECTED AT THE SOURCE, UNLESS NOTED OR DIRECTED OTHERWISE. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
- ALL EXISTING DUCTWORK TO REMAIN UNLESS INDICATED ON MECHANICAL PLANS. ALL ABANDONED HVAC EQUIPMENT AND DUCTWORK SHALL BE REMOVED UPON DISCOVERY.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELEPHONE OUTLETS, AND ALL ASSOCIATED WIRES IN WALLS TO BE REMOVED AND TERMINATE AT THE LAST OUTLET THAT REMAINS IN SERVICE.
- ALL EMPTY OR ABANDONED CONDUIT AND JUNCTION BOXES TO BE REMOVED.
- DEMOLITION CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR COVERINGS AND/OR FINISHES, UNDERLAYMENT, GLUE AND ANY OTHER ADHESIVE; AND SHALL PATCH REPAIR CONCRETE SLAB AS REQUIRED TO ACCOMMODATE FINAL FLOOR PREP. REFER TO FINISH PLAN FOR ADDITIONAL INFORMATION.
- ALL ABANDONED UTILITIES ARE TO BE REMOVED AS DIRECTED BY LANDLORD OR AS SPECIFIED BY MALL MANAGEMENT. COORDINATE WITH MALL MANAGEMENT OR LANDLORD AS NECESSARY.
- ALL FIREPROOFING AT STRUCTURAL ELEMENTS SHALL REMAIN, UNLESS NOTED OTHERWISE. ANY FIREPROOFING REMOVED AND/OR DAMAGED DURING THE COURSE OF DEMOLITION SHALL BE REPLACED WITH THE SAME MATERIALS AND RATING AS THAT WHICH WAS REMOVED AT THE CONTRACTOR'S EXPENSE.
- LANDLORD ROOFING CONTRACTOR - IF REQUIRED - IS TO REMOVE EXISTING ROOFING INSULATION AND ROOF DECK AS REQUIRED WHERE NEW ROOF TOP EQUIPMENT IS SPECIFIED. G.C. IS TO VERIFY EXACT LOCATION AND EXTENT IN THE FIELD. REFER TO MECHANICAL DRAWINGS.
- PRIOR TO SAWCUTTING OF EXISTING SLAB, G.C. IS TO VERIFY WITH THE LANDLORD THE LOCATION OF ANY AND ALL EXISTING UTILITIES RUNNING THROUGH THE SPACE. IF IT IS DETERMINED THAT UTILITIES ARE PRESENT, BUT EXACT LOCATIONS ARE NOT KNOWN, THEN THE G.C. SHOULD XRAY THE SLAB.
- USE CARE DURING DEMOLITION SO AS NOT TO DISTURB THE REMAINING WALLS, CEILINGS, PIPING AND DUCTWORK. EXISTING DUCTWORK TO BE REVISED BY SHEET METAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR ALL EXISTING DUCTWORK AND SPRINKLER LINES AFFECTED BY THE REMOVAL.
- TENANT RESERVES THE RIGHT TO RETAIN ITEMS AS DESIRED. THE CONTRACTOR SHALL REMOVE RETAINED ITEMS TO A STORAGE AREA AS DIRECTED BY THE TENANT OR HIS REPRESENTATIVE. ALL OTHER MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE BUILDING SITE IMMEDIATELY.
- CONTRACTORS ENGAGED SHALL BE PROTECTED BY THE PROPER INSURANCE AND SHALL FILE EVIDENCE THEREOF WITH THE OWNER'S AGENT, INCLUDING HOLD HARMLESS PROTECTION FOR THE TENANT AND ARCHITECT.
- DEBRIS FROM THE DEMOLITION SHALL BE REMOVED PROMPTLY FROM THE BUILDING BY MEANS APPROVED BY THE LANDLORD.
- DO NOT REMOVE ANY UTILITIES RUNNING THROUGH THE SPACE TO ADJACENT TENANTS.

B GENERAL DEMOLITION NOTES

- FRAMING
 - REMOVE INTERIOR PARTITIONS AND INTEGRATED DOORS, FIXTURES, FINISHES AND POWER (SHOWN DASHED.) NOTIFY ARCHITECT IMMEDIATELY IF DEMOLITION EXPOSES ANY UNFORESEEN CONDITIONS.
 - EXISTING WALLS TO REMAIN (SHOWN SOLID GREYSKALE). SEE SHEET A1.1
 - AT DEMISING WALLS IN SALES AREA, G.C. SHALL REMOVE EXISTING BUILD-OUTS WHILE MAINTAINING INTEGRITY OF RATED DEMISING WALLS. G.C. SHALL CONTACT ARCHITECT IF GYP. BD. IS MISSING ON DEMISING WALLS.
 - REMOVE BUILD-OUTS AT STRUCTURAL COLUMNS.
- CEILINGS
 - REMOVE ALL CEILINGS, SOFFITS, FINISHES & LIGHT FIXTURES THROUGHOUT, UNLESS OTHERWISE NOTED.
 - EXISTING GYP. BD. CLNG TO REMAIN, TOILET ROOM. REMOVE ALL LIGHT FIXTURES & ABANDONED EQUIPMENT. PREPARE SURFACE FOR NEW FINISH.
 - REMOVE ALL EXISTING EXIT & EMERGENCY LIGHTS.
- DOORS / GLAZING
 - EXISTING STOREFRONT SYSTEM TO REMAIN
 - EXISTING DOOR TO REMAIN. SEE A-0.1 FOR NEW HARDWARE.
 - REMOVE ALL EXISTING WEATHERSTRIPPING AND PREPARE DOOR SURFACE FOR NEW.
 - REMOVE EXISTING DOOR & FRAME. PREPARE OPENING FOR NEW. SEE SHEET A.0.1
- FIXTURES / FINISHES
 - REMOVE ALL FINISHES, WALL BASE & TRIM THROUGHOUT INTERIOR (TYP. U.N.O). G.C. SHALL ENSURE INTEGRITY OF EXISTING GYP. BD. BENEATH. NOTIFY ARCHITECT IMMEDIATELY IF DEMOLITION EXPOSES ANY UNFORESEEN CONDITIONS.
 - REMOVE ALL FLOORING, THROUGHOUT
 - WITHIN THIS TOILET ROOM TO REMAIN, G.C. SHALL REMOVE ALL FINISHES.
 - REMOVE FIXTURES THROUGHOUT SALES.
- EQUIPMENT
 - ALL TOILET ROOM ACCESSORIES TO BE REMOVED UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING SECURITY SYSTEM
- MECHANICAL
 - REMOVE / RELOCATE THERMOSTAT / TEMPERATURE SENSOR - SEE MECHANICAL SHEETS
 - EXISTING MECHANICAL SYSTEM SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW CEILING CONDITIONS. REMOVE ALL HVAC COMPONENTS NOT BEING RE-USED. (SEE MECHANICAL PLANS).
- PLUMBING
 - THIS TOILET ROOM ONLY - EXISTING TOILET, SINK & MOP SINK TO BE REMOVED. ASSOCIATED PLUMBING TO REMAIN AND RE-USED WITH NEW FIXTURES.
 - THIS TOILET ROOM ONLY - EXISTING TOILET, SINK, FLOOR DRAIN, MOP SINK AND ALL ASSOCIATED PLUMBING TO BE REMOVED COMPLETELY.
 - EXISTING DRINKING FOUNTAIN TO BE REMOVED. EXISTING WATER LINES / ELECTRICAL TO BE RE-USED IF FEASIBLE FOR NEW WATER HEATER. SEE PLUMBING DRAWINGS.
 - EXISTING WATER HEATER TO BE REMOVED. EXISTING WATER LINES / ELECTRICAL TO BE RE-USED IF FEASIBLE FOR NEW WATER HEATER. SEE PLUMBING DRAWINGS.
 - EXISTING FLOOR DRAIN TO REMAIN.
- ELECTRICAL
 - REMOVE ALL LIGHTING THROUGHOUT. SEE SHEET A2.1
 - EXISTING ELECTRICAL PANELS TO BE REMOVED. SEE ELECTRICAL SHEETS
 - REMOVE EXISTING OUTLETS THROUGHOUT, INCLUDING ALL FLOOR OUTLETS UNLESS OTHERWISE NOTED. REMOVE WIRE TO SOURCE.
 - EXISTING OUTLETS / OCCUPANCY SENSOR TO REMAIN THIS ROOM
- LOW VOLTAGE COMMUNICATION SYSTEM
 - ALL EXISTING ELECTRIC, VOICE AND DATA COMPONENTS ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. SEE ELECTRICAL SHEETS. DO NOT REMOVE UTILITY PROVIDER DEVICES OR CABLING ON THE PRIMARY SIDE OF UTILITY PROVIDER DEVICES.
 - REMOVE EXISTING SPEAKERS, CAMERAS AND SECURITY DEVICES THROUGHOUT
- FIRE SUPPRESSION / SPRINKLER SYSTEM
 - EXISTING SPRINKLER / HEAD LOCATION TO REMAIN IN PROPOSED 'OPEN TO DECK' & EXISTING GYP. CEILING AREAS. INSPECT AND ENSURE PROPER WORKING ORDER (TYP.). C. SHALL PROTECT DURING CONSTRUCTION.

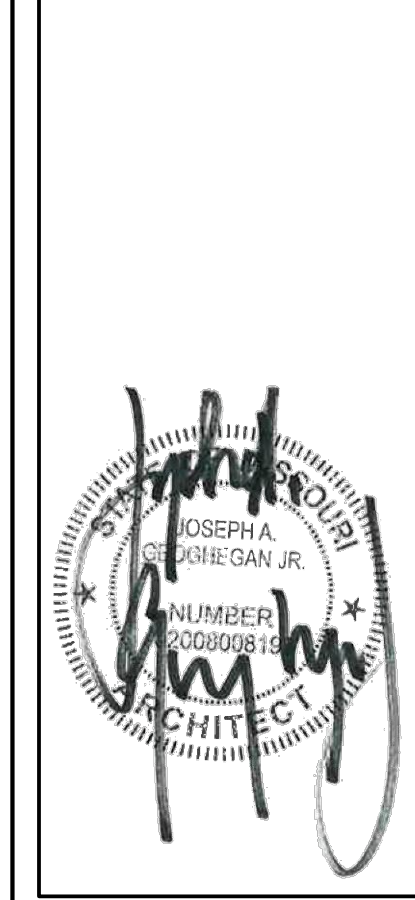
A KEY NOTES



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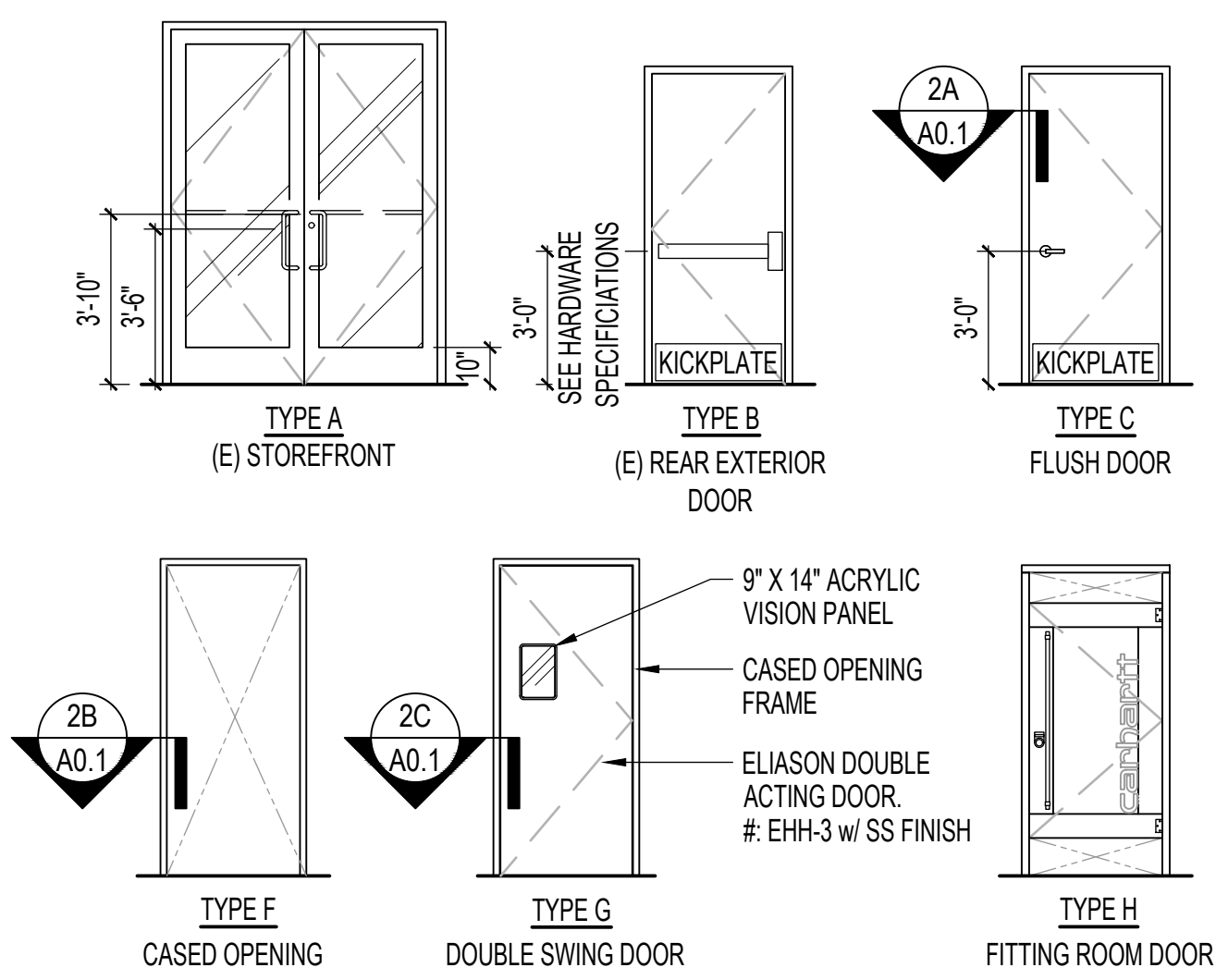
DEMOLITION PLANS

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	D1.1

#



9 MATERIAL BOARD



8 DOOR TYPES

MARK	STATUS	LOCATION	OPENING		STATUS	HARDWARE	DOOR				FRAME			KEY	REMARKS
			SIZE	TYPE			SIZE	MATERIAL	FINISH	STATUS	MATERIAL	FINISH			
(101)	EXISTING	ENTRY	6'-0" X 7'-0"	A	EXISTING	4	(2) 3'-0" X 7'-0"	ALUM. / GLASS	BLACK	EXISTING	ALUM.	BLACK	AA	1	
(102)	NEW	FITTING RM AREA	3'-0" X 7'-0"	F	N/A	N/A	N/A	N/A	N/A	NEW	H.M.	P-1	-		
(103)	NEW	FITTING ROOM	3'-0" X 7'-0"	H	NEW	6	3'-0" X 5'-4" X 1 3/4"	WOOD / LAMINATE	LAM	NEW	STEEL	N/A	AF	2	
(104)	NEW	FITTING ROOM	3'-0" X 7'-0"	H	NEW	6	3'-0" X 5'-4" X 1 3/4"	WOOD / LAMINATE	LAM	NEW	STEEL	N/A	AF	2	
(105)	NEW	HALLWAY	3'-0" X 7'-0"	G	N/A	N/A	3'-0" X 7'-0" X 1 3/4"	WOOD	S.S.	NEW	H.M.	P-1	-	5	
(106)	NEW	STOCKROOM	3'-0" X 7'-0"	C	NEW	2	3'-0" X 7'-0" X 1 3/4"	S.C. WOOD	P-1	NEW	H.M.	P-1	AF		
(107)	NEW	OFFICE	3'-0" X 7'-0"	C	NEW	2	3'-0" X 7'-0" X 1 3/4"	S.C. WOOD	P-1	NEW	H.M.	P-1	AA		
(108)	EXISTING	TOILET ROOM	3'-0" X 7'-0"	C	NEW	1	3'-0" X 7'-0" X 1 3/4"	S.C. WOOD	P-1	NEW	H.M.	P-1	AF	4	
(109)	EXISTING	REAR EXIT	3'-0" X 7'-0"	B	EXISTING	3	3'-0" X 7'-0"	H.M.	NOTE 3	EXISTING	H.M.	NOTE 3	AA	1, 3, 6	

REMARK NOTES:
 1. EXISTING DOOR & FRAME WITH NEW DOOR HARDWARE. SEE HARDWARE SCHEDULE.
 2. FITTING ROOM DOORS TO BE OWNER PROVIDED, G.C. INSTALLED. REFER TO APPROVED VENDOR SHOP DRAWINGS FOR INSTALLATION. HARDWARE TO BE INSTALLED BY GC.
 3. INTERIOR TO BE PAINTED P-1, EXTERIOR TO BE PAINT TO MATCH PROPERTY SPEC. INSTALL SUITE # ON EXTERIOR PER LANDLORD REQUIREMENTS.
 4. UNDERCUT DOOR 1" FOR RETURN AIR PATH
 5. SALES SIDE OF FRAME TO BE 'P-8', STOCK SIDE TO BE 'P-1'
 6. PATCH HOLES / REPAIR DOOR

7 DOOR SCHEDULE

(108)	<p>SET 1 - TOILET ROOM: HINGES: STANLEY # FBB199, 1 1/2 PR. PER DOOR 4 1/2" X 4 1/2" FINISH: 626 SATIN CHROME LOCKSET: SCHLAGE ND738 RHO 626 DOOR STOPS: TRIMCO 1270CV (PULL SIDE WALL ONLY) KICK PLATE: IVES 8"X34" STAINLESS STEEL, MFR# 8400 S 32D 8X24 (PUSH SIDE ONLY) SILENCERS CLOSER: LCN 4041 SUPER SMOOTHIE SURFACE CLOSER</p>	(101)	<p>SET 4 - ENTRY: PULLS: EXISTING HINGES: EXISTING LOCKSET: REPLACE DEADLOCK LEVER WITH NEW (BLACK ANODIZED) ADDITIONAL LOCKING: STRIKES: EXISTING CYLINDERS: REPLACE CYLINDER WITH NEW TO ACCEPT SMALL FORMAT INTERCHANGEABLE CYLINDER (BLACK ANODIZED) CLOSER: EXISTING ALUMINUM THRESHOLD: BARRIER FREE WITH WEATHER STRIPPING & BOTTOM SWEEP NOTE: ALL WEATHERSTRIPPING, THRESHOLD & SWEEP TO BE REPLACED</p>
(106)	<p>SET 2 - OFFICE / STOCKROOM HINGES: STANLEY # FBB199, 1 1/2 PR. PER DOOR 4 1/2" X 4 1/2" FINISH: STAINLESS STEEL LOCKSET: SCHLAGE ND708 RHO 626 DOOR STOPS: TRIMCO 1270CV (PULL SIDE WALL ONLY) KICK PLATE: IVES 8"X34" STAINLESS STEEL, MFR# 8400 S 32D 8X24 (PUSH SIDE ONLY) SILENCERS CLOSER: LCN 4041 SUPER SMOOTHIE SURFACE CLOSER</p>	(103)	<p>SET 6 - FITTING ROOM ALL HARDWARE IN FITTING ROOMS FURNISHED BY OWNER HINGES: SCHLAGE #S3P1011FRP622. 3 1/2" X 3 1/2" PLAIN BEARING 5/8" RADIUS. FINISH: 622 MATTE BLACK DOOR PULLS: ROCKWOOD ASSA ABLOY, RM4160, BLACK POWDER COAT (BPC); TYPE 5 MOUNTING DETAIL (ONE ON EACH SIDE) LOCKSET: SCHLAGE: B560B 622. IS-OCC, OS-OCC DOOR STOPS: BALDWIN 4015.190; 4015 CONVEX WALL BUMPER; 190 SATIN BLACK (PULL SIDE WALL ONLY) STRIKEPLATE: SILENCER: ADD CONTINUOUS FELT/RUBBER STRIP IN BLACK FINISH. SPEC. T.B.D.</p>
(109)	<p>SET 3 - REAR EXIT: HARDWARE: "DETEX" SELF CONTAINED DOOR ALARM W/ BATTERY #ECL-230D W/ STANDARD HARDWARE & IC7/IC7R. ADD EXTERIOR DOOR PULL CYLINDER: TO ACCEPT SMALL FORMAT INTERCHANGEABLE CORE. HINGES: EXISTING DOOR STOPS: EXISTING KICK PLATE: EXISTING SILENCERS: EXISTING CLOSER: EXISTING PEEP HOLES: EXISTING NOTE: ALL WEATHERSTRIPPING, THRESHOLD & SWEEP TO BE REPLACED</p>	(104)	<p>NOTE: OWNER'S VENDOR WILL PROVIDE THE FOLLOWING KEYS: AA : 7 AF : 12 AA (KNOX BOX) : 1</p>

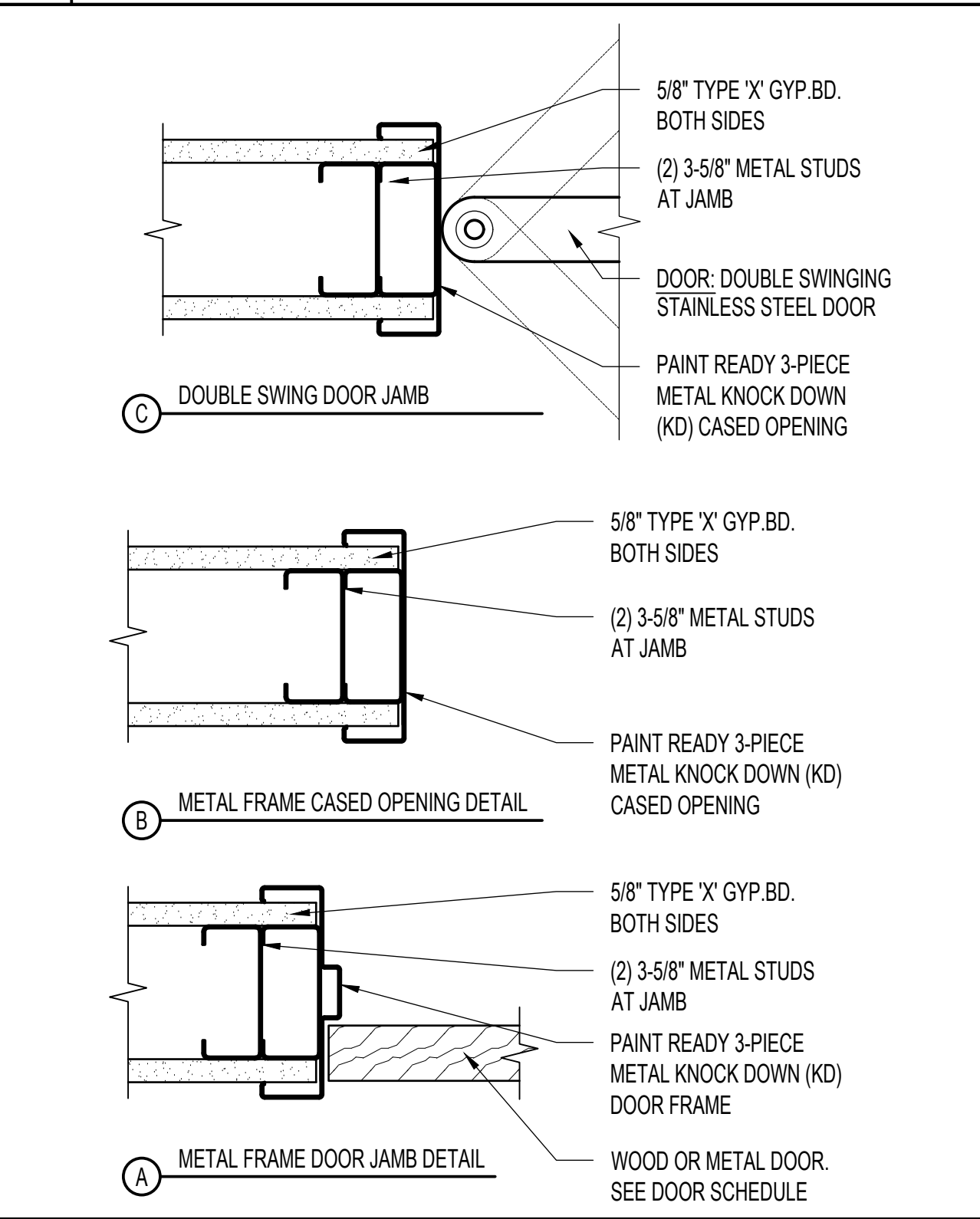
6 HARDWARE SCHEDULE

- NO SUBSTITUTIONS ON DOOR HARDWARE
- MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN THE FOLLOWING PUBLICATIONS, EXCEPT AS SPECIFICALLY INDICATED AND/OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS INCLUDING ADA.
 - "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS & FRAMES" BY DOOR & HARDWARE INSTITUTE
 - "HARDWARE LOCATIONS FOR WOOD FLUSH DOORS" BY NMDA INDUSTRY STANDARD INSTITUTE
- WHEN FLUSH BOLTS ARE PROVIDED, THE UPPER BOLT MECHANISM TO BE NO HIGHER THAN 6'-0" AFF THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" H. SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION
- ALL NEW AND EXISTING PASSAGE, LOCKSETS, ECT. TO HAVE LEVER HANDLES. REPLACE EXISTING HANDLES AS REQUIRED
- DOOR HARDWARE CONSTRUCTION CORES TO REMAIN. OWNER TO REMOVE AND INSTALL FINAL CORES
- EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
- THE FORCE REQUIRED TO OPEN A DOOR IN THE REQUIRED MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH SECTION 7.2.1.4.5, NFPA 101 2006 EDITION
- THE MAXIMUM FORCE FOR PUSHING OR PULLING ALL INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS
- DOOR HARDWARE MUST BE ADA COMPLIANT
- ALL RATED DOORS SHALL HAVE SMOKE AND DRAFT CONTROL WITH GASKETS TO SEAL

5 DOOR GENERAL NOTES

- ALL FINISH MATERIALS TO BE CLASS 1: - FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 200
- G.C. SHALL VERIFY THAT THE MAXIMUM THRESHOLD HEIGHT DOES NOT EXCEED 1/2"
- NEW WEATHER-STRIPPING TO BE INSTALLED ON ALL EXISTING EXTERIOR DOORS AS REQUIRED.

3 FINISH GENERAL NOTES



2 DOOR DETAILS

PAINT		FURN. & INST. BY GC	FURN. BY OWNER / INST. BY GC	EXISTING	MILLWORK	NOT USED
NOTE: ALL WALLS SHALL BE EGG SHELL, ALL DRYWALL CEILINGS SHALL BE FLAT, DOOR/JAMBS TO BE SATIN. BEFORE PURCHASE PROVIDE DRAW-DOWN TO ARCHITECT FOR APPROVAL						
P-1	PPG PAINTS : PPG1008-2 STORMS COMING					
P-2	PPG PAINTS : PPG1001-6 KNIGHT'S ARMOR NOTE: DRY FALL CANNOT BE USED ON WALLS.					
P-5	BENJAMIN MOORE - OC-152 SUPER WHITE - FLAT					
P-8	SHERWIN WILLIAMS SW6991 (BLACK MAGIC)					
P-9	BENJAMIN MOORE MARDI GRAS GOLD. 2019-10					

WALL BASE

B-1	1X4 WOOD BASE (3/4" X 3 1/2") - STAINED WITH VARATHANE PREMIUM WOOD STAIN "EARLY AMERICAN" WITH VARATHANE ULTIMATE POLYURETHANE WATER BASED TOP COAT "CRYSTAL CLEAR SATIN"					
B-2	FLEXCO TRADITIONAL 4" VINYL BASE; COLOR 34 BARLEY (6" IN TOILET ROOMS)					
B-4	1 X 4 (3/4" X 3 1/2") WOOD BASE- PAINT P-8 IN THE FIELD					

WALLCOVERINGS

WC-1	PIONEER MILLWORKS - AMERICAN PRAIRIE REDWOOD - 4.5"W X RANDOM LENGTHS T&G. ONE FACE UNTOUCHED W/ WIREBRUSH LIGHT UNFINISHED. INSTALL OVER 3/4" PLYWOOD THAT HAS BEEN PAINTED P-8 CONTACT: JESSICA SHELDON 585.455.2711 JESSICA@PIONEERMILLWORKS.COM					
WC-2	CDX PLYWOOD FROM FLOOR TO 48" A.F.F. PAINT TO MATCH WALLS ABOVE. SMOOTH EDGES (NO TRIMS REQUIRED)					
WC-3	MARLITE FIBER COMPOSITION PANEL; P-1100 WHITE					
WC-5	BODAQ - NS602 BLACK COPPER PATINA FILM. CONTACT: TOM BRASSELL 773.480.7031 TBRASSELL@GMAIL.COM PRODUCT IS SELF ADHESIVE. USE PRODUCT PRIMER. INSTALL PER MANUFACTURER INSTRUCTIONS.					

CORNER GUARDS

CG-1	STEELWORKS 1 1/2"W X 1 1/2" D. X 48" L. PLAIN HOT ROLLED STEEL SOLID ANGLE. AVAILABLE AT LOWES.COM (USED AT SALES / FITTING ROOM AREAS ONLY). EASE EDGES					
CG-2	.36 X 1" X 48" SILVER METAL CORNER GUARD (OR EQUAL) ATTACH TO WALL WITH SCREWS & ADHESIVE. EASE EDGES					

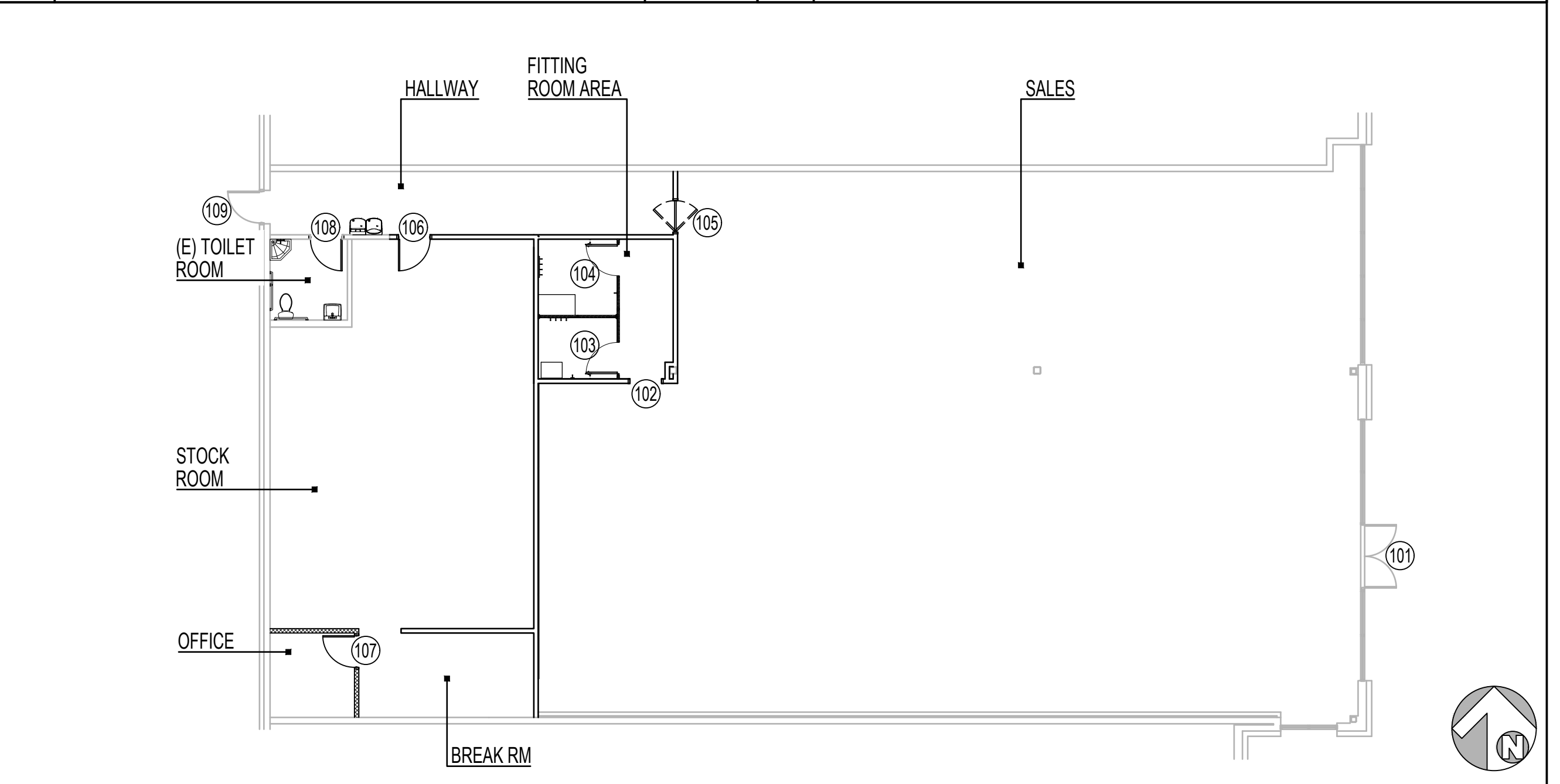
FLOORING

F-1	POLISHED CONCRETE - SEMI-GLOSS SHEET - 400 GRIT					
F-2	SEAL-KRETE - CLEAR-SEAL CONCRETE & GARAGE FLOOR SEALER OR EQUAL - SATIN FINISH					
F-4	ARMSTRONG IMPERIAL TEXTURE - COOL WHITE - 12" X 12" VCT					
F-5	MILLIKEN MOARAIN EXPLORER CARPET TILE - EXPR231-133-6 MEASURE W/ GOLD (19.7" X 39.4" X 0.310"). CARPET TILES TO BE RANDOMIZED PRIOR TO INSTALL AND LAID OUT IN 1/3 STAGGERED RUNNING BOND					

ACOUSTICAL TILE

ACT-1	TILE: "SECOND LOOK" 24" DUNE TEGULAR EDGE 24" X 48" X 5/8" TILE COLOR: WHITE GRID: 15/16" GRID COLOR: WHITE OR APPROVED EQUAL. USE HEAVY DUTY MAIN TEE & CONNECTORS					
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4 FINISH SCHEDULE



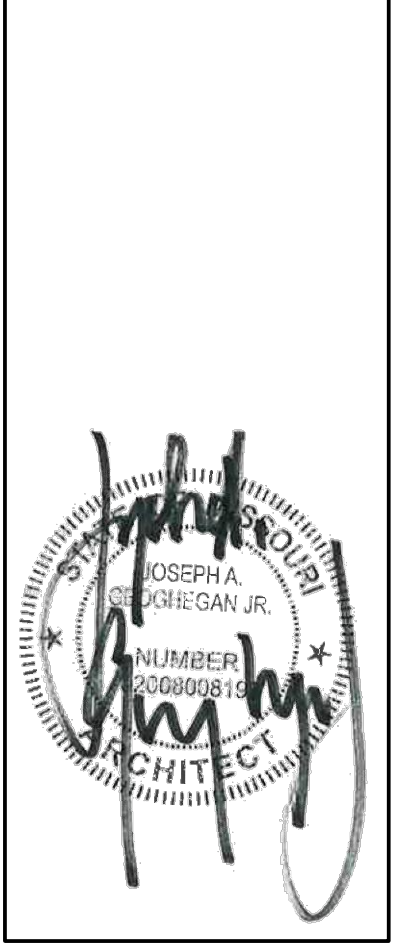
1 DOOR KEY PLAN



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carhartt
 SUMMIT WOODS CROSSING
 1744 NW CHIPMAN ROAD
 LEE'S SUMMIT, MO 64081

SCHEDULES

DRAWN BY	SL
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-0.1

SCALE N.T.S.

- ALL WOOD FURRING AND BLOCKING SHALL BE FIRE-RETARDANT TREATED - TYPICAL
- ALL DIMENSIONS TO BE TO FINISHED SURFACES UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE DIMENSIONS WITH VARIOUS TRADES BEFORE FABRICATION OR PURCHASE OF FIXTURES, MILLWORK, COUNTERS, ETC.
- REQUIREMENTS AND DESIGN DATA SHALL BE FOLLOWED ENTIRELY, REGARDLESS OF WHETHER THEY ARE GIVEN BY BOTH THE SPECIFICATIONS AND DRAWINGS OR BY EITHER ONE ONLY.
- SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.
- CONTRACTORS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR THE FOLLOWING:
 - COMPLIANCE WITH CONTRACT DOCUMENTS.
 - DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS.
 - COORDINATION OF THE VARIOUS TRADES.
 - SAFE CONDITIONS AT THE JOB SITE.
- UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
- GC TO PROVIDE FIRE EXTINGUISHERS TO MEET LOCAL CODE REQUIREMENTS.

A GENERAL NOTES

- LIGHT METAL STRUCTURAL PARTITION BOTTOM TRACKS MAY BE FASTENED TO CONCRETE SLAB USING LOW-VELOCITY POWER DRIVEN PINS FOLLOWING THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS UNLESS OTHERWISE NOTED. THE FASTENING SYSTEM USED SHALL BE AS MANUFACTURED BY HILTI (ICBO REPORT NO. ESR-2269) OR APPROVED EQUAL. PINS SHALL HAVE A MINIMUM SHANK DIAMETER OF 0.157", A MINIMUM LENGTH OF 1-1/8", AND SHALL BE SPACED AT 16" O.C. MAXIMUM.
- THE TOP TRACK OF EACH FULL HEIGHT WALL SHALL BE ATTACHED DIRECTLY TO THE FRAMING WHEN THE WALL IS PERPENDICULAR TO FRAMING AND TO BLOCKING BETWEEN FRAMING @ 4'-0" O.C. WHEN THE WALL IS PARALLEL TO THE FRAMING.
- PROVIDE MIN. 2'-0" HIGH CEMENT BOARD @ FLOOR BEHIND ALL FIBERGLASS REINFORCED PANELS.
- PROVIDE CEMENT BOARD UNDER ALL WALL TILE WHERE APPLICABLE.
- ALL BRACING AND SUSPENDED COMPONENTS ARE FROM STRUCTURE (NOT FROM DECK). DO NOT PENETRATE THROUGH DECK ABOVE.
- GYPSUM BOARD SHALL BE ATTACHED WITH #6 SCREWS MINIMUM UNLESS NOTED OTHERWISE.

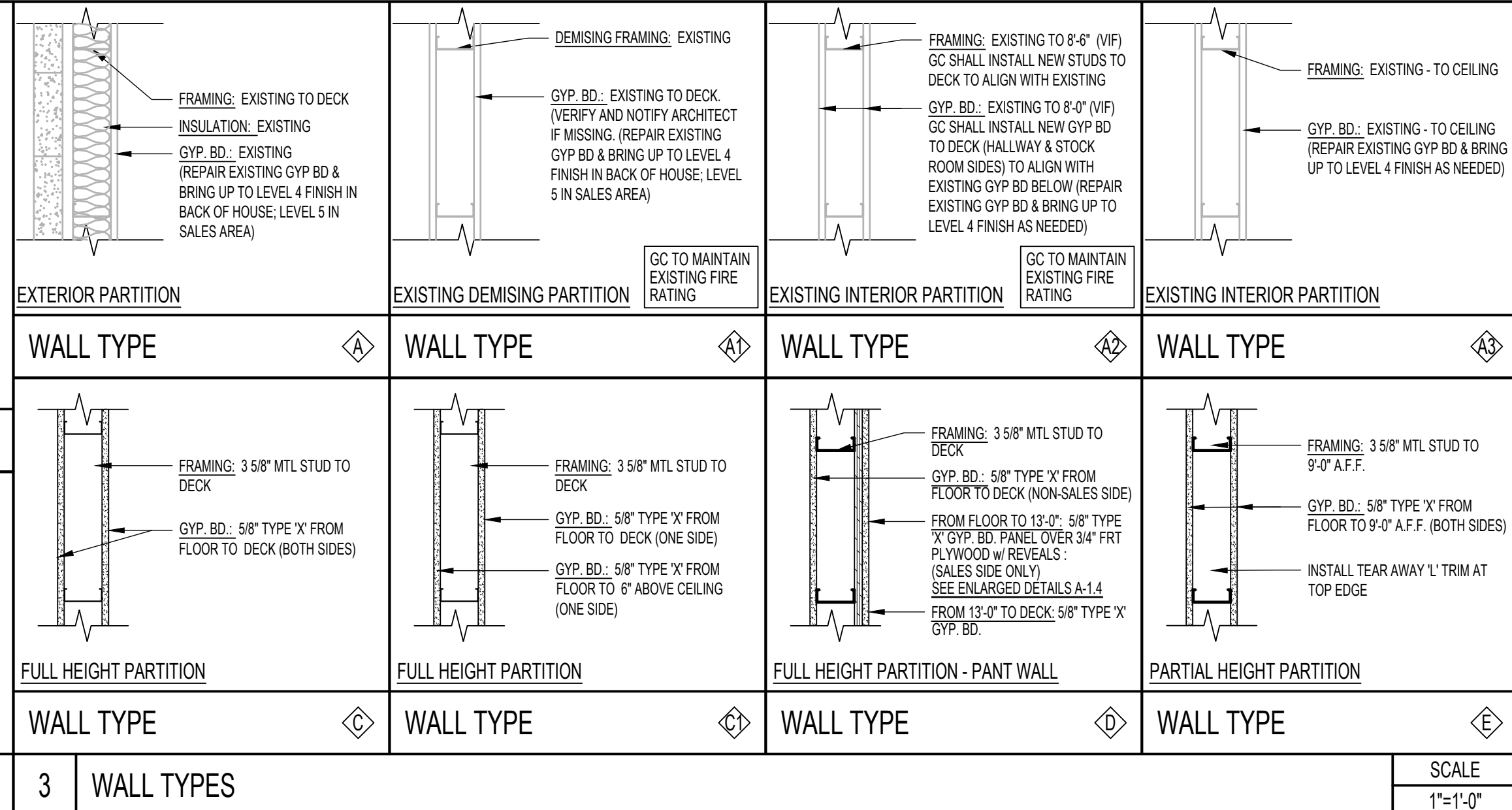
B PARTITION NOTES

NON-BEARING METAL STUD SCHEDULE		
STUD SIZE*	SPACING	MAX. HEIGHT (W/ FLEXIBLE FINISH)
362S162-18	16" O.C.	13'-6"
362S162-33	16" O.C.	21'-1"
362S162-43	12" O.C.	25'-0"
600S162-33	16" O.C.	30'-0"

*STUDS BY ANGELES METAL SYSTEMS, ICBO NO. 1715 OR APPROVED EQUAL

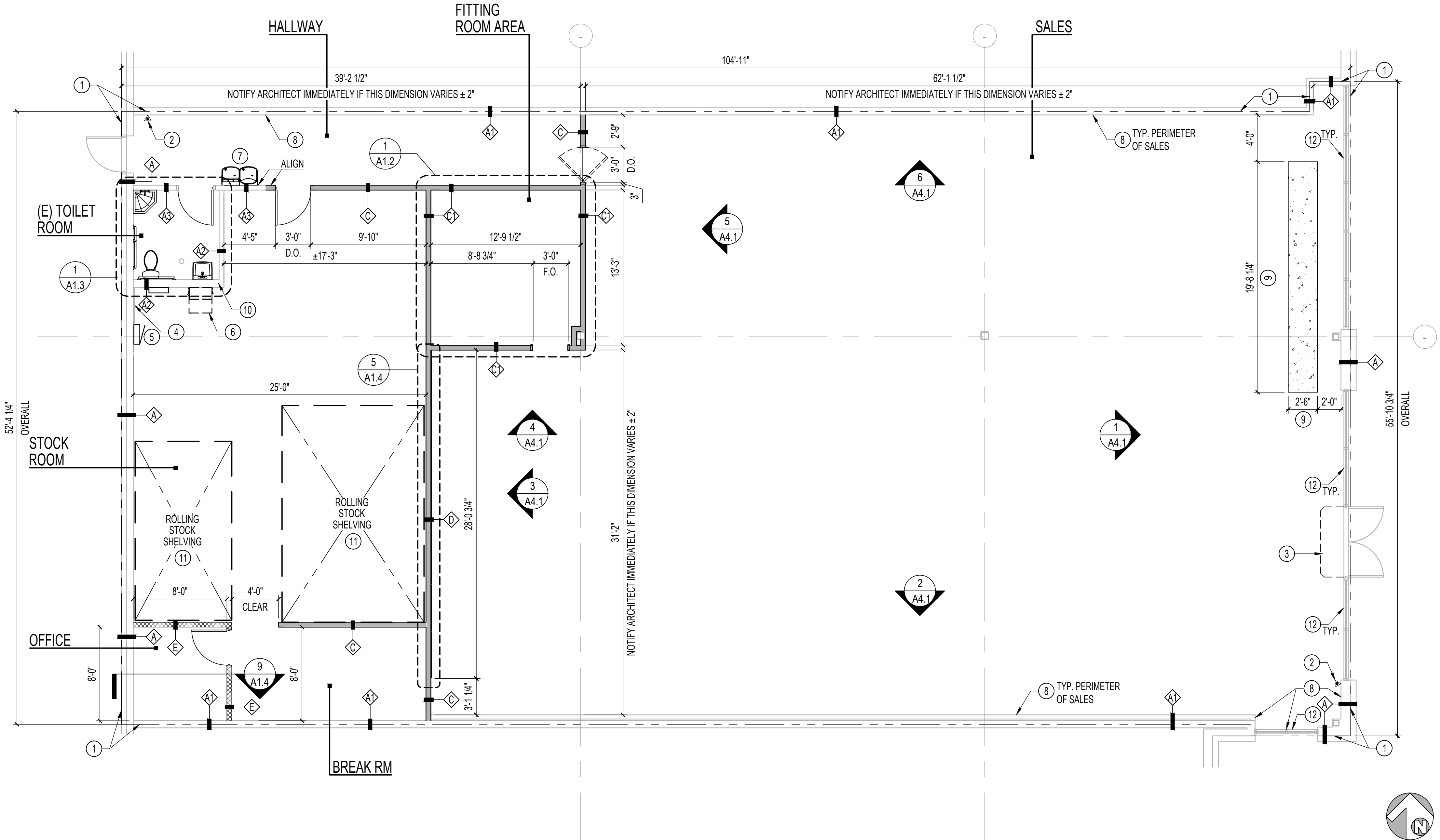
C STUD SCHEDULE

- NOTE:**
G.C. TO CALL CARHARTT PM DURING FRAMING STAGE TO DISCUSS ANY FIELD DIMENSIONS DISCREPANCIES PRIOR TO FRAMING. ESPECIALLY OVERALL SALES FLOOR AND STOCKROOM DIMENSIONS. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE
- NOTE:**
PRIOR TO FRAMING G.C. SHALL VERIFY NEW WALLS DO NOT CONFLICT WITH EXISTING HVAC DROPS & PIPES. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE
- NOTE:**
ALL EXISTING WALLS IN SALES AREA TO BE BROUGHT UP TO LEVEL 5 FINISH.



- TENANT LEASE LINE
- FIRE EXTINGUISHER - COORDINATE LOCATIONS WITH FIRE MARSHAL
- SAWCUT GROOVE IN CONCRETE SLAB PER DETAIL 8/A1.4
- EXISTING 3/4" CDX" F.T. PLYWOOD TO REMAIN
- ELECTRICAL PANELS - SEE ELECTRICAL SHEETS. INSTALL 3/4" CDX" F.T. PLYWOOD IF NOT EXISTING
- LOCATION OF NEW DATA RACK.
- NEW WATER FOUNTAIN / BOTTLE FILLER
- NOTIFY ARCHITECT IMMEDIATELY IF EXISTING STUDS OR GYP. BD. DOES NOT EXTEND TO DECK.
- G.C. TO PROVIDE CONCRETE FOR BASE OF WINDOW FIXTURE. FORMWORK IS PROVIDED WITH FIXTURE. EACH BASE IS 30" W. X 6" H.
- G.C. TO ENSURE THAT CONCRETE IS LEVEL TO WITHIN 1/8" VARIATIONS AT AREAS UNDER ROLLING SHELVES. VERIFY EXACT LOCATIONS W/ FIXTURE PLAN. ROLLING SHELVES EQUIPMENT IS 2,000-3,000 PSI. VERIFY EXACT CONCRETE LEVELING REQUIREMENTS W/ ARCHITECT & SHELVING VENDOR PRIOR TO CONSTRUCTION.
- G.C. SHALL INSTALL NEW SEALANT AT BOTTOM OF GLAZING AFTER TILE IS REMOVED.

KEY NOTES



1 CONSTRUCTION PLAN / FINISH PLAN

SCALE 3/16" = 1'-0"

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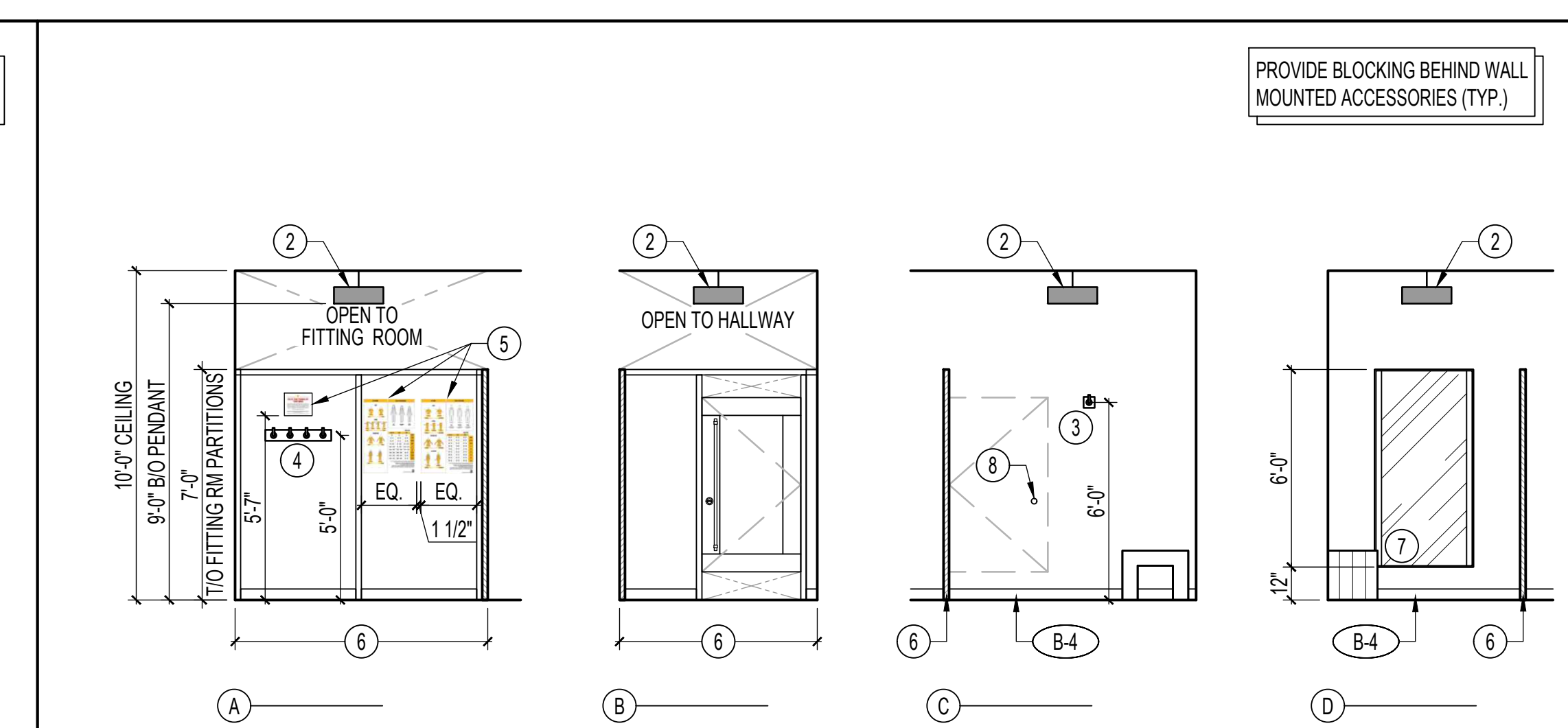
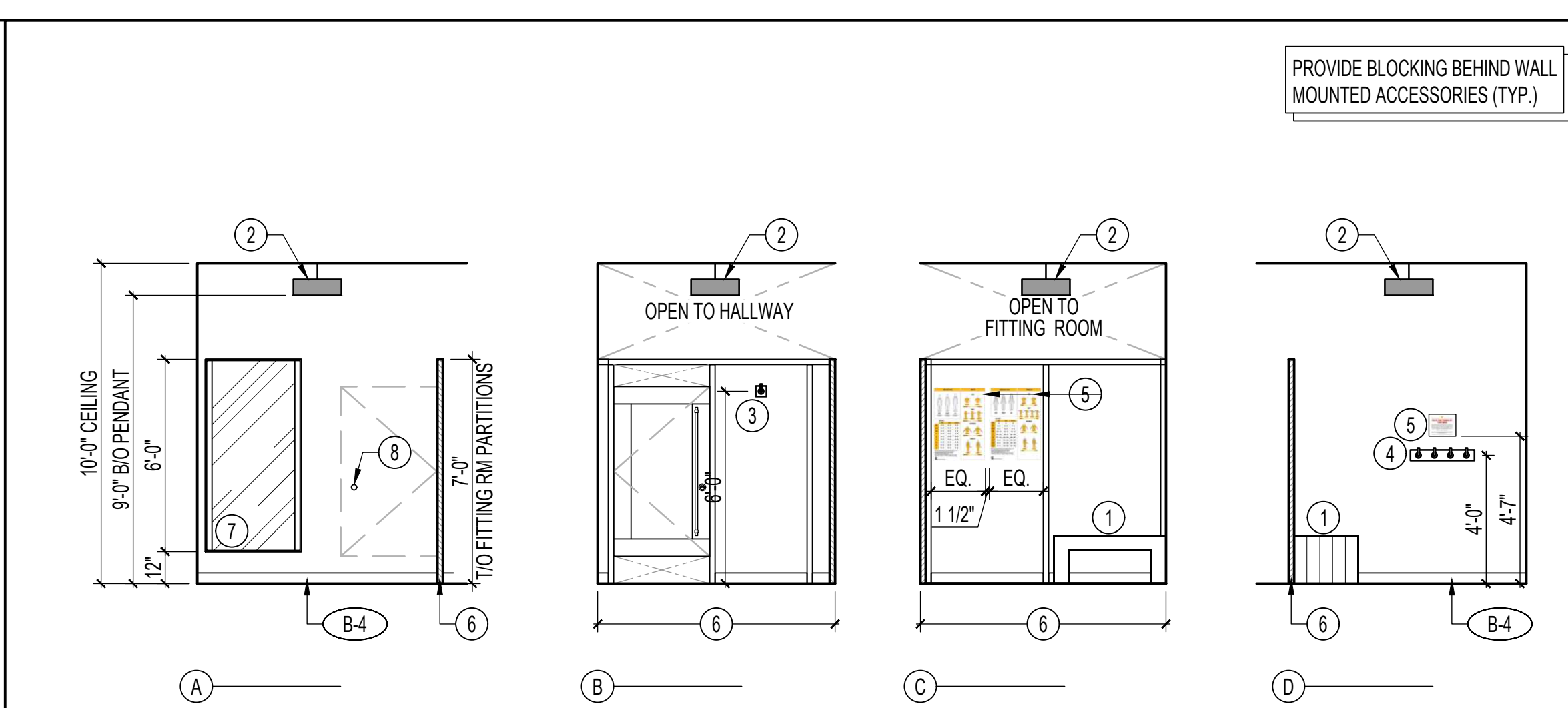
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JOSEPH A. REIDIGAN, JR.
REGISTERED ARCHITECT
NUMBER 02080815
ILLINOIS ARCHITECTS BOARD

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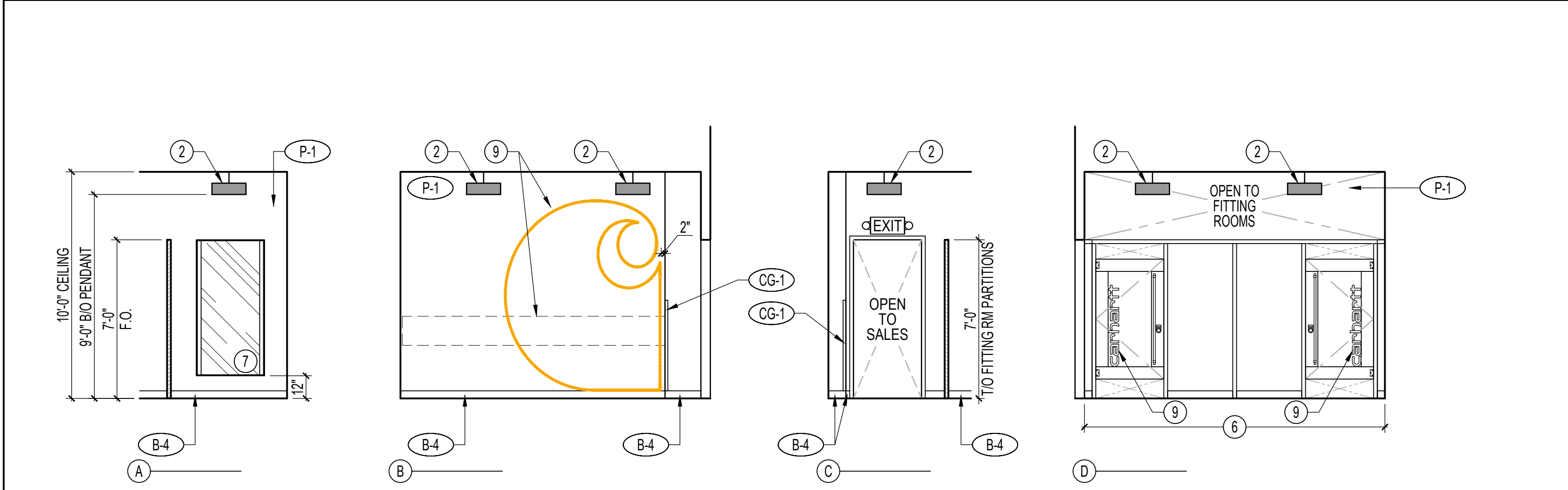
carhartt
SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-1.1



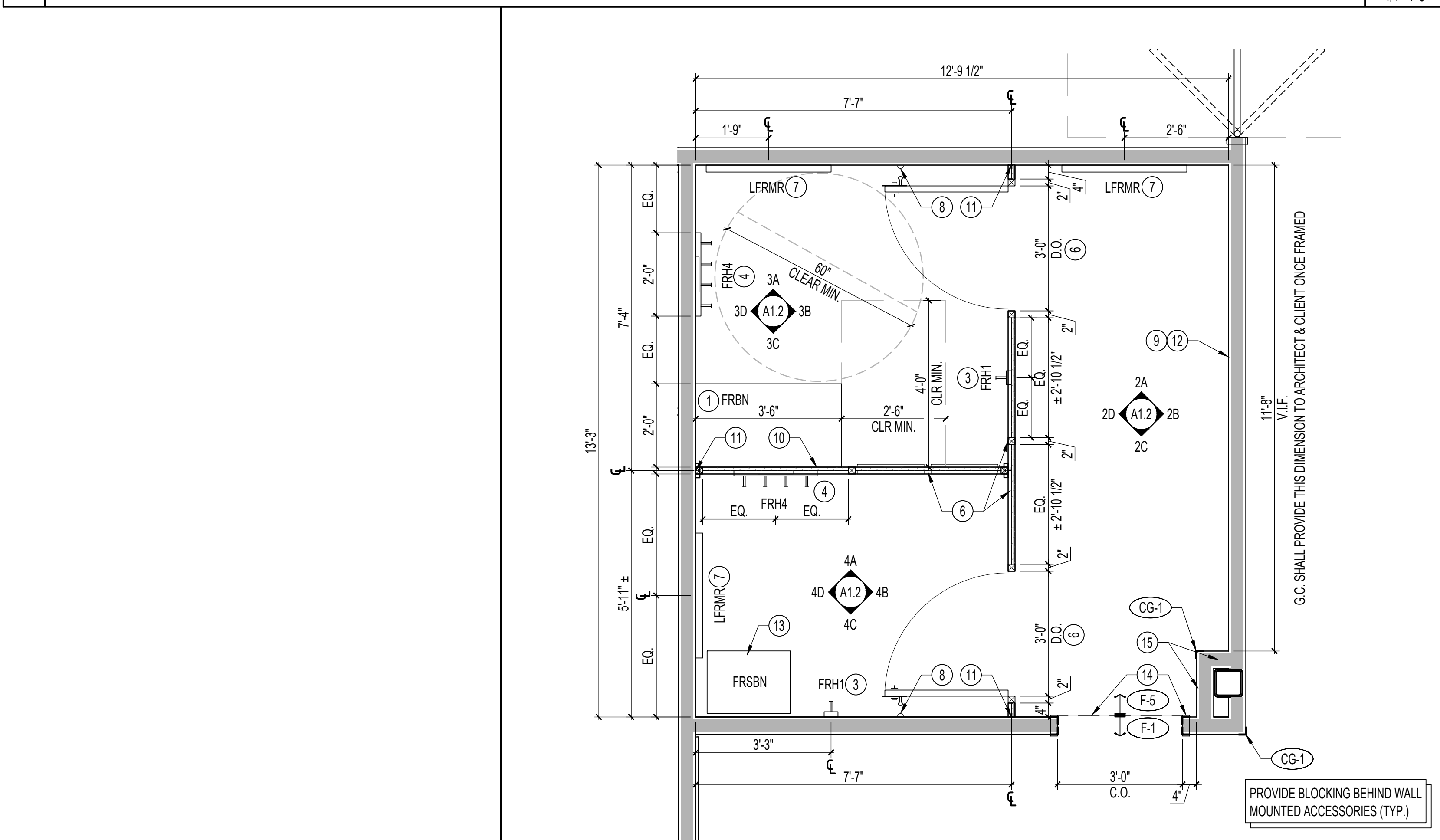
3 ELEVATIONS - ADA FITTING ROOM SCALE 1/4"=1'-0"

4 ELEVATIONS - FITTING ROOM SCALE 1/4"=1'-0"

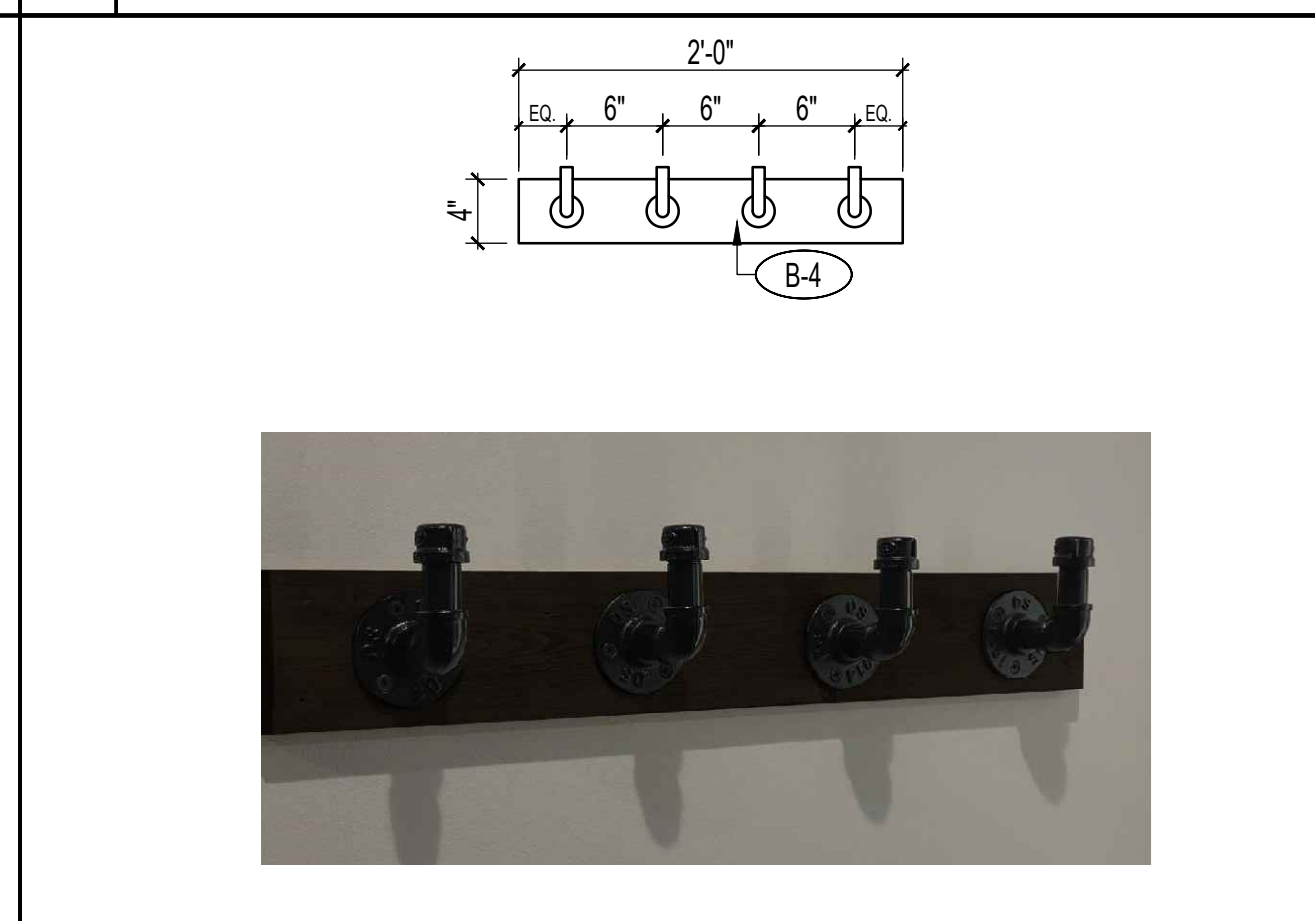


2 ELEVATIONS - FITTING ROOM HALLWAY SCALE 1/4"=1'-0"

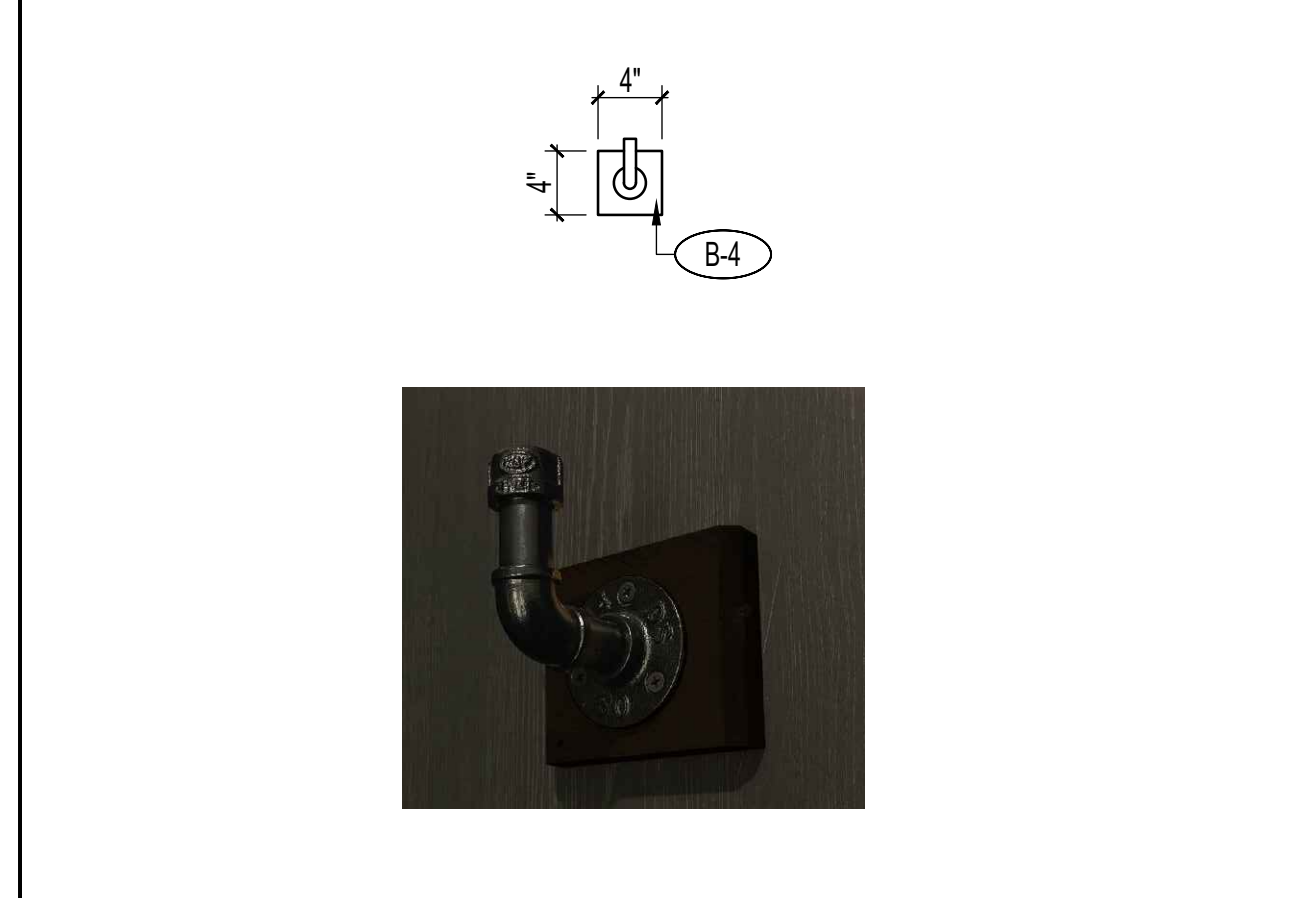
- KEY NOTES
- GC TO SECURE BENCH TO THE FLOOR & ADD CLEAR SEALANT TO WALL. CUT BASEBOARD TO ACCOMMODATE BENCH. BENCH IS 24" DEEP X 42" LONG X 18" HIGH
 - PENDANT LIGHT - SEE A2.1 & LIGHTING PLANS
 - (1) GC SUPPLIED HOOKS INSTALLED ON 'B-4'. HOOKS: SUNMALL INDUSTRIAL PIPE COAT HOOKS - BLACK. AVAILABLE AT AMAZON.COM
 - (4) GC SUPPLIED HOOKS INSTALLED ON 'B-4'. HOOKS: SUNMALL INDUSTRIAL PIPE COAT HOOKS - BLACK. AVAILABLE AT AMAZON.COM
 - G.C. TO INSTALL OWNER SUPPLIED GRAPHICS. SEE F2.1 FOR DETAILS.
 - OWNER SUPPLIED, G.C. INSTALLED FITTING ROOM POST/PARTITION SYSTEM. SEE APPROVED VENDOR SHOP DRAWINGS FOR INSTALLATION INSTRUCTIONS.
 - ILLUMINATED WALL MOUNTED FITTING ROOM MIRROR - STYLMARK MODEL 620096-03 BEVEL: LED-LIT SINGLE PANE MIRROR. 36" X 72" FINISH: 123-BUFFED SATIN BLACK - 3700K CORD & PLUG - NO SWITCH
 - WALL MOUNTED DOOR STOP
 - VINYL GRAPHIC. SEE F-2.1 FOR DETAILS.
 - G.C. TO INSTALL FITTING ROOM PANEL ON ADA FITTING ROOM SIDE SO THE BENCH IS MOUNTED TO A FLUSH SURFACE.
 - G.C. TO INSTALL BLOCKING WHERE FITTING ROOM PARTITIONS ATTACH TO WALL
 - NO DEVICES ARE TO BE INSTALLED ON THIS WALL.
 - THIS BENCH TO REMAIN LOOSE.
 - 'F-5' TRANSITION TO ALIGN WITH INSIDE CASED OPENING. SEE DETAIL SHEET A-5.1
 - FURR WALL TIGHT TO COLUMN.



1 ENLARGED PLAN - FITTING ROOMS SCALE 1/2"=1'-0"



B FITTING ROOM HOOK - FRH4 (4)



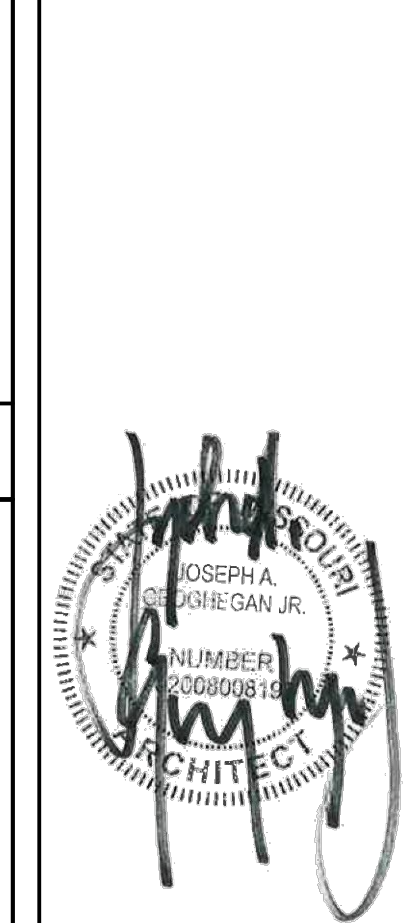
A FITTING ROOM HOOK - FRH1 (3)



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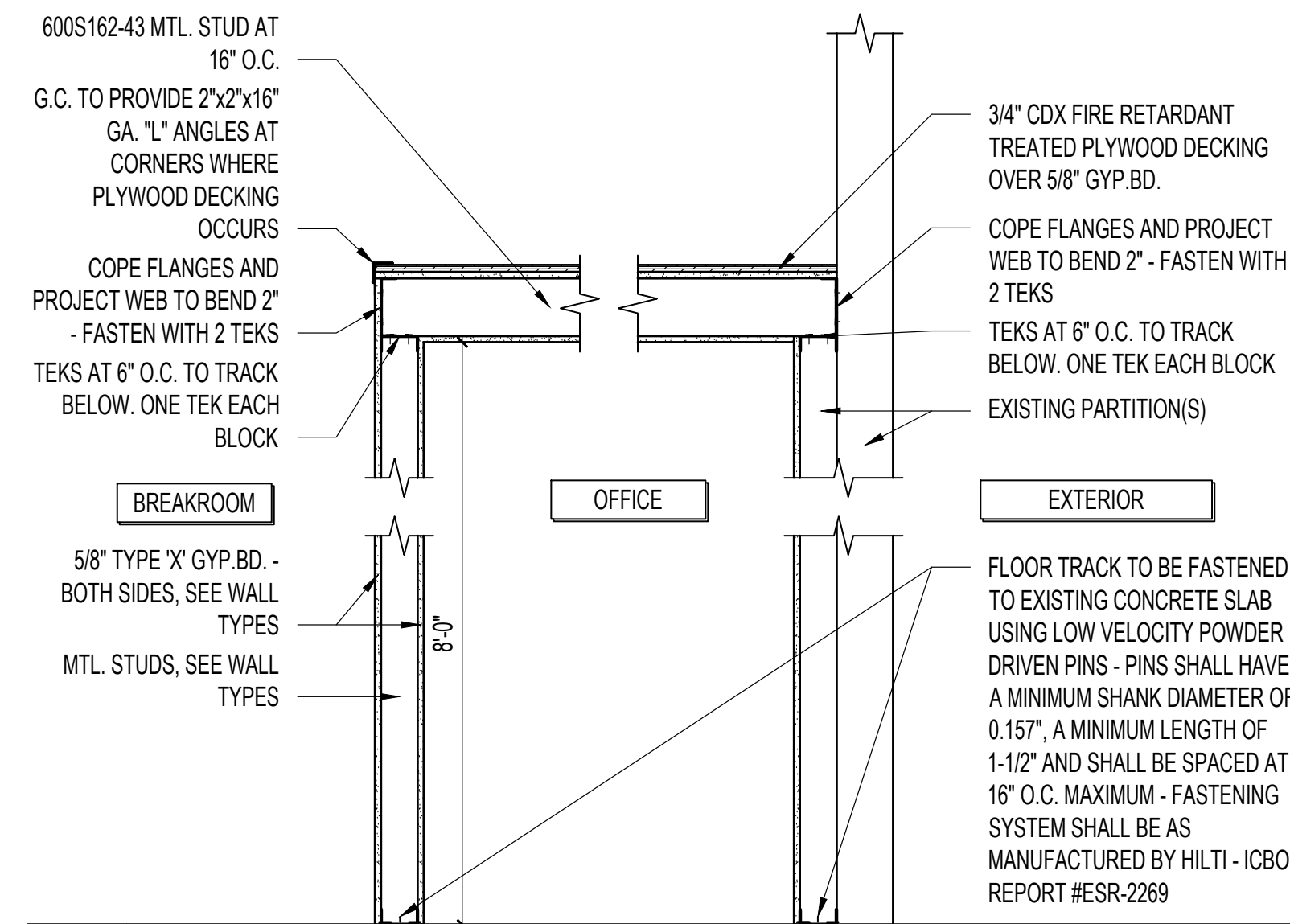


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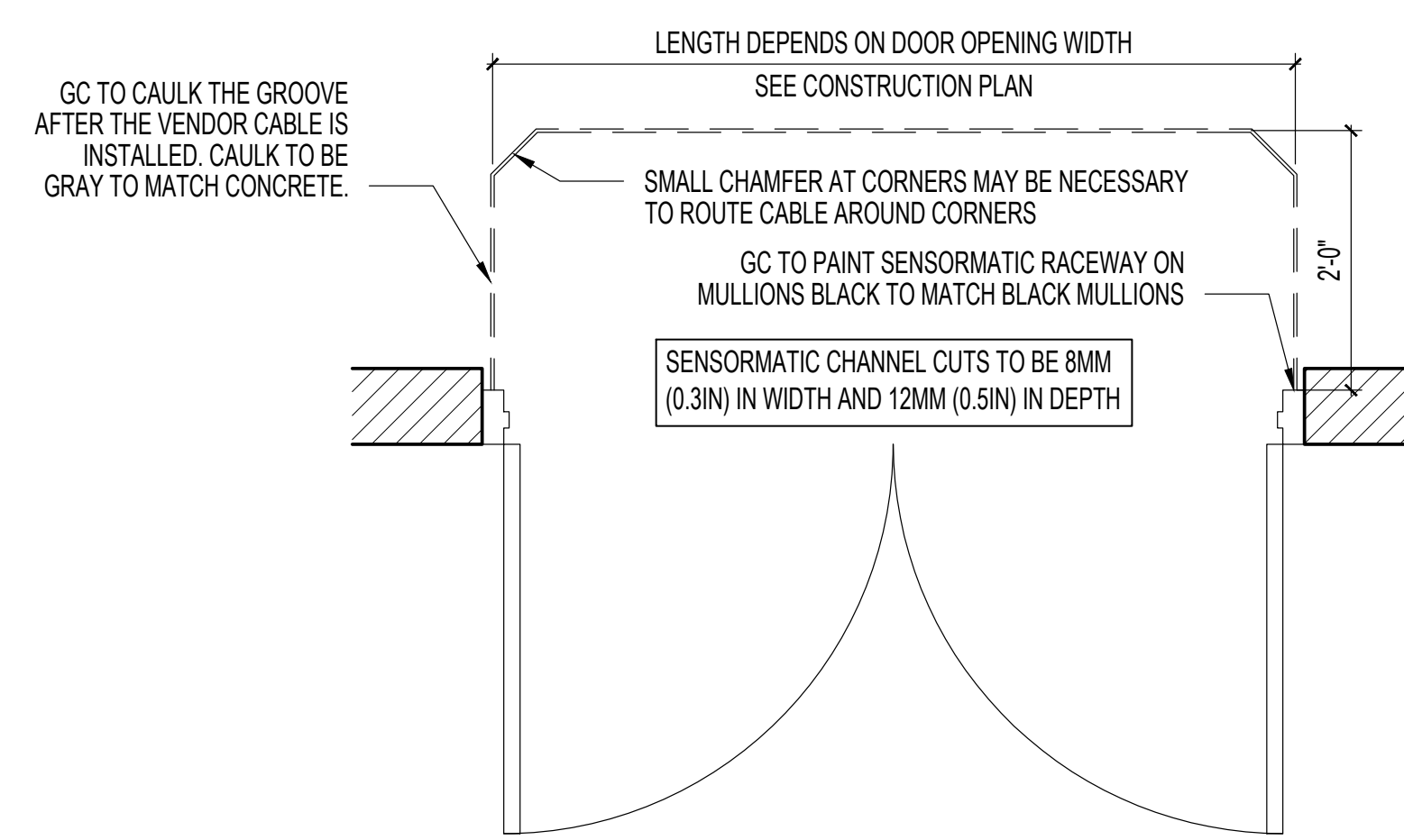


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CHECKED BY	SL
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SHEET NAME	A-1.2

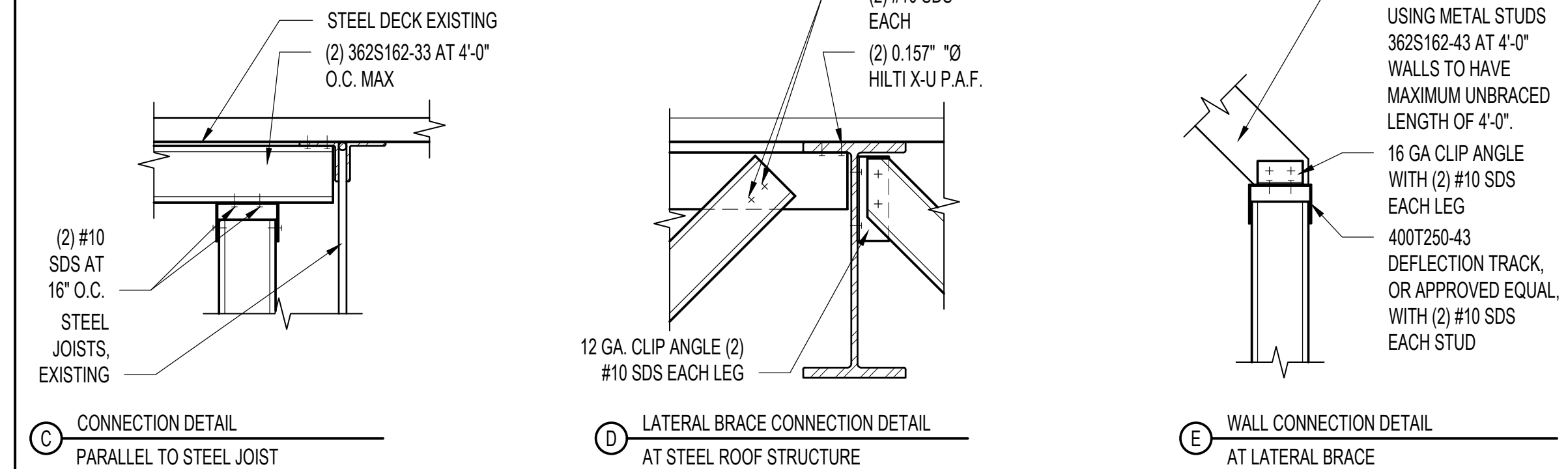
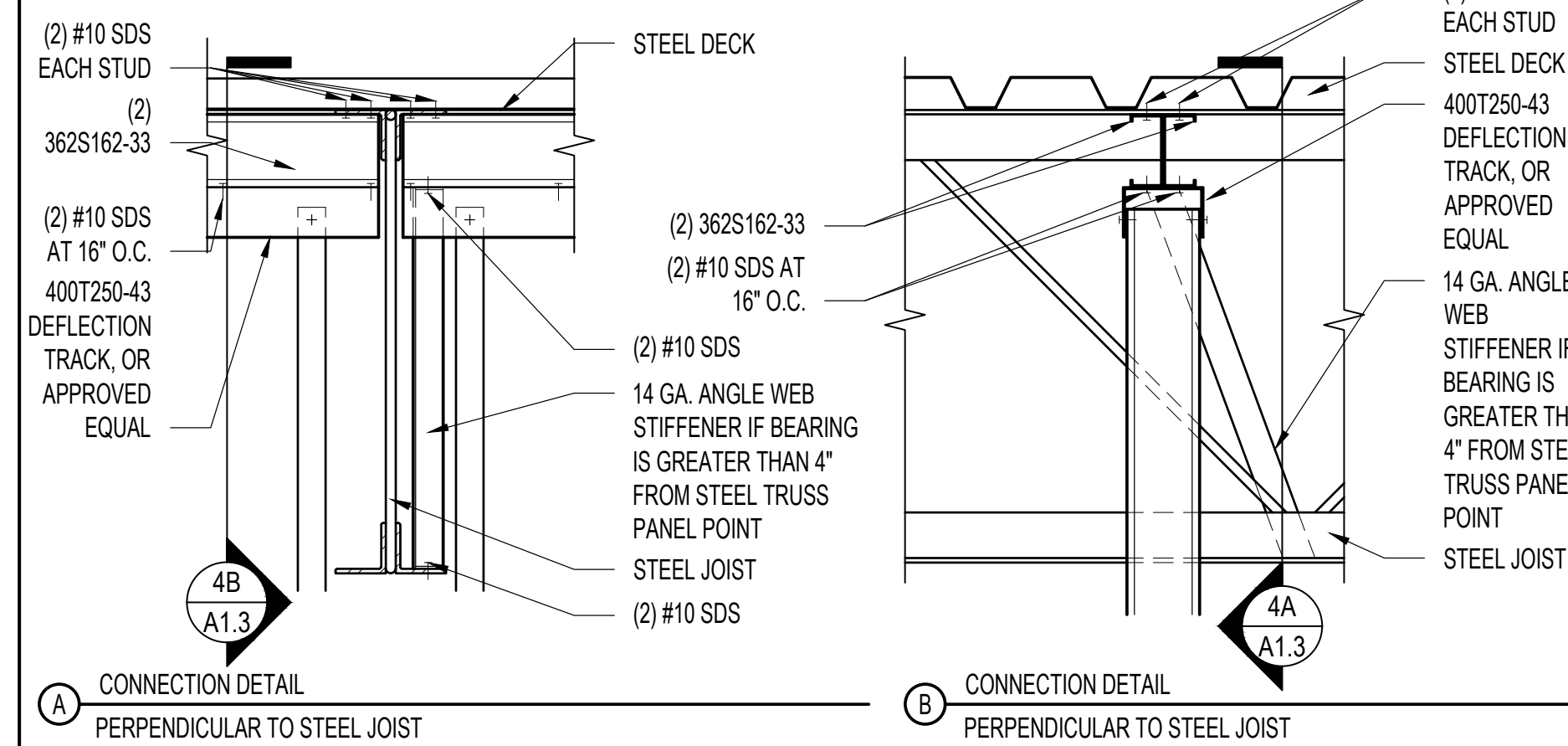


9 STOCKROOM / OFFICE PLATFORM DETAIL



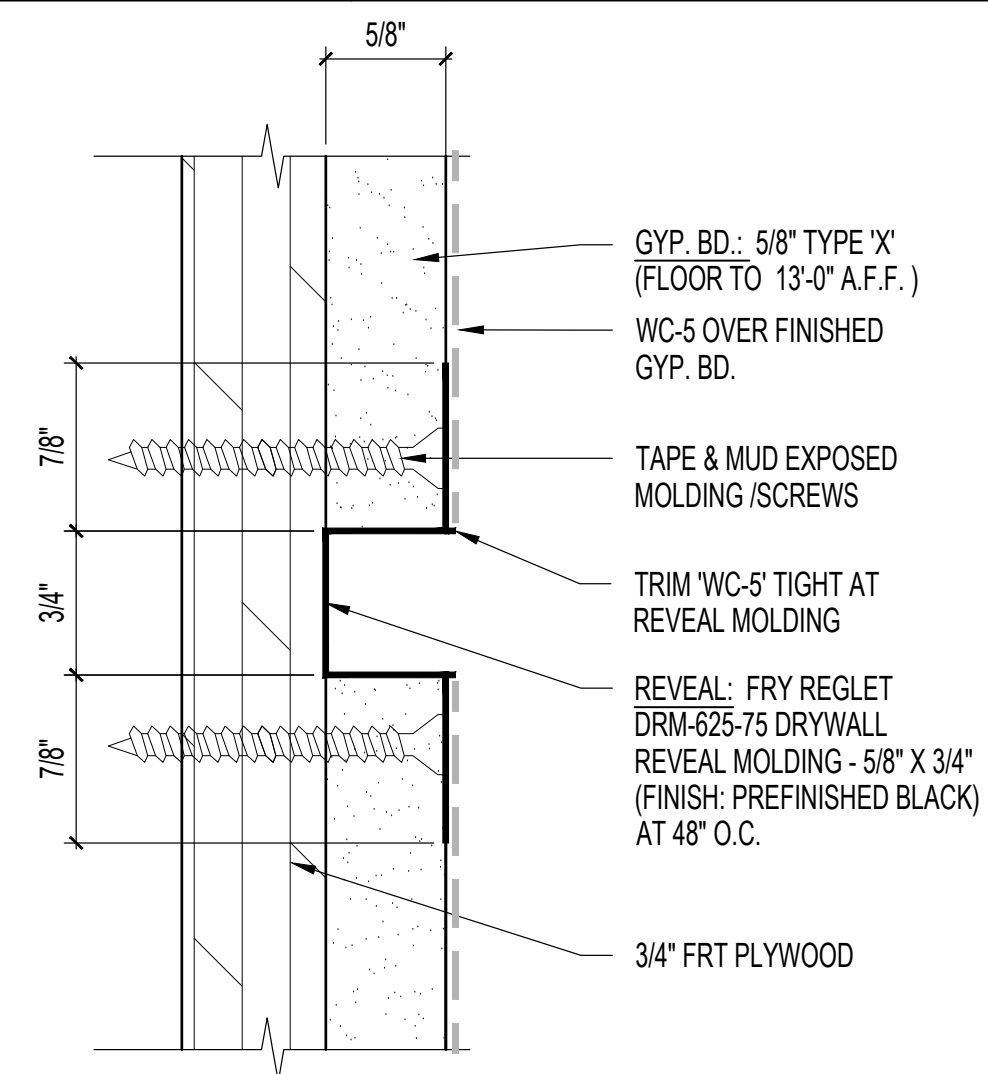
8 SENSORMATIC CHANNEL DETAIL

SCALE
3/4" = 1'-0"



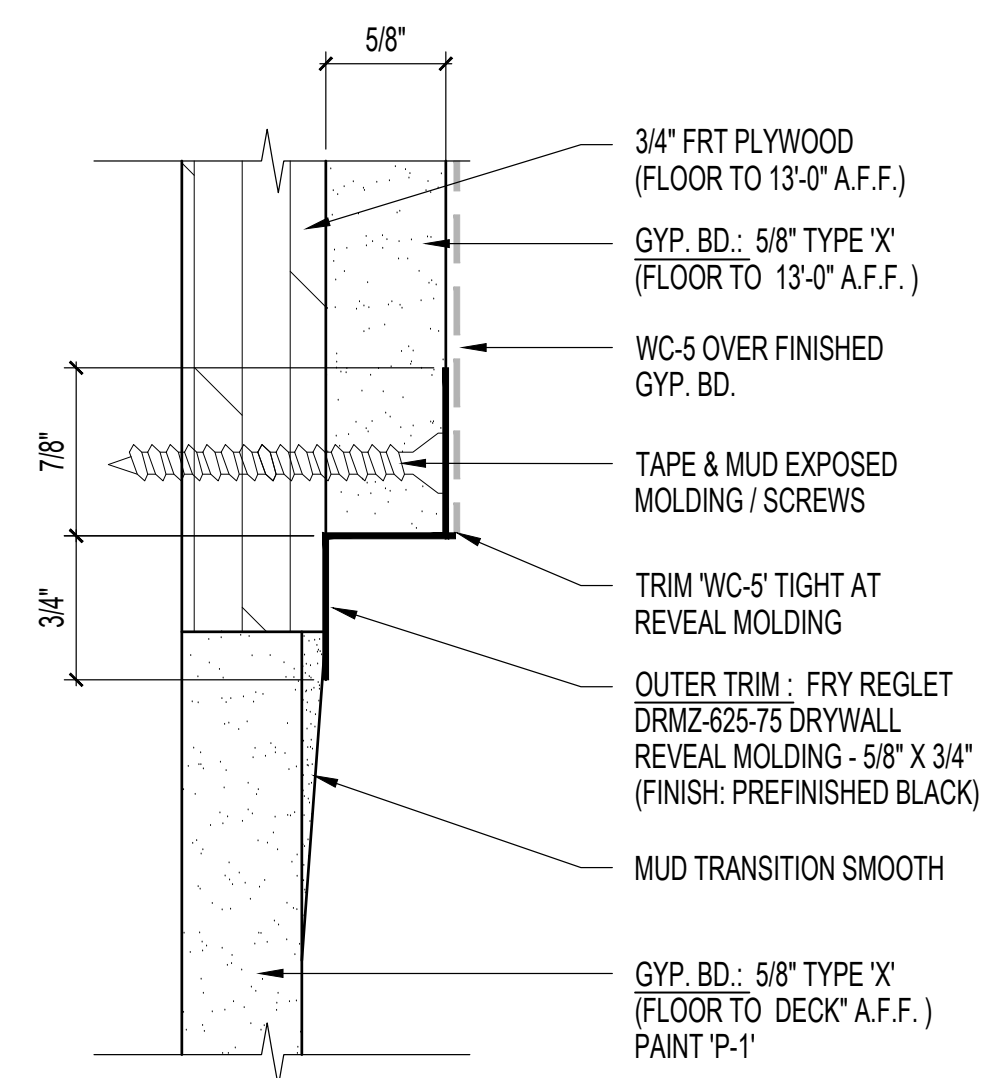
4 CONNECTION DETAILS

SCALE
3/4" = 1'-0"



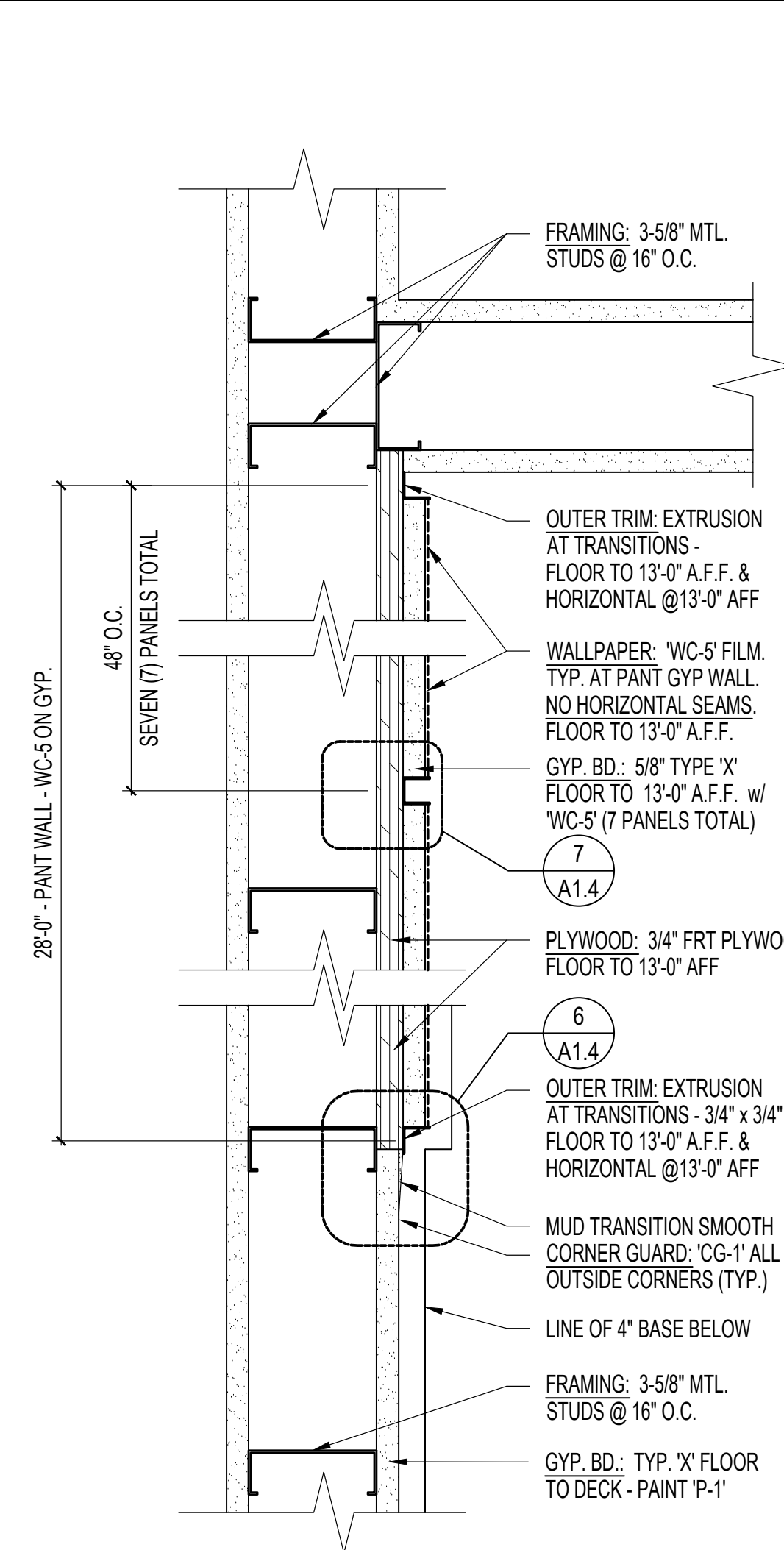
7 PANT WALL REVEAL DETAIL

SCALE
1'-0" = 1'-0"



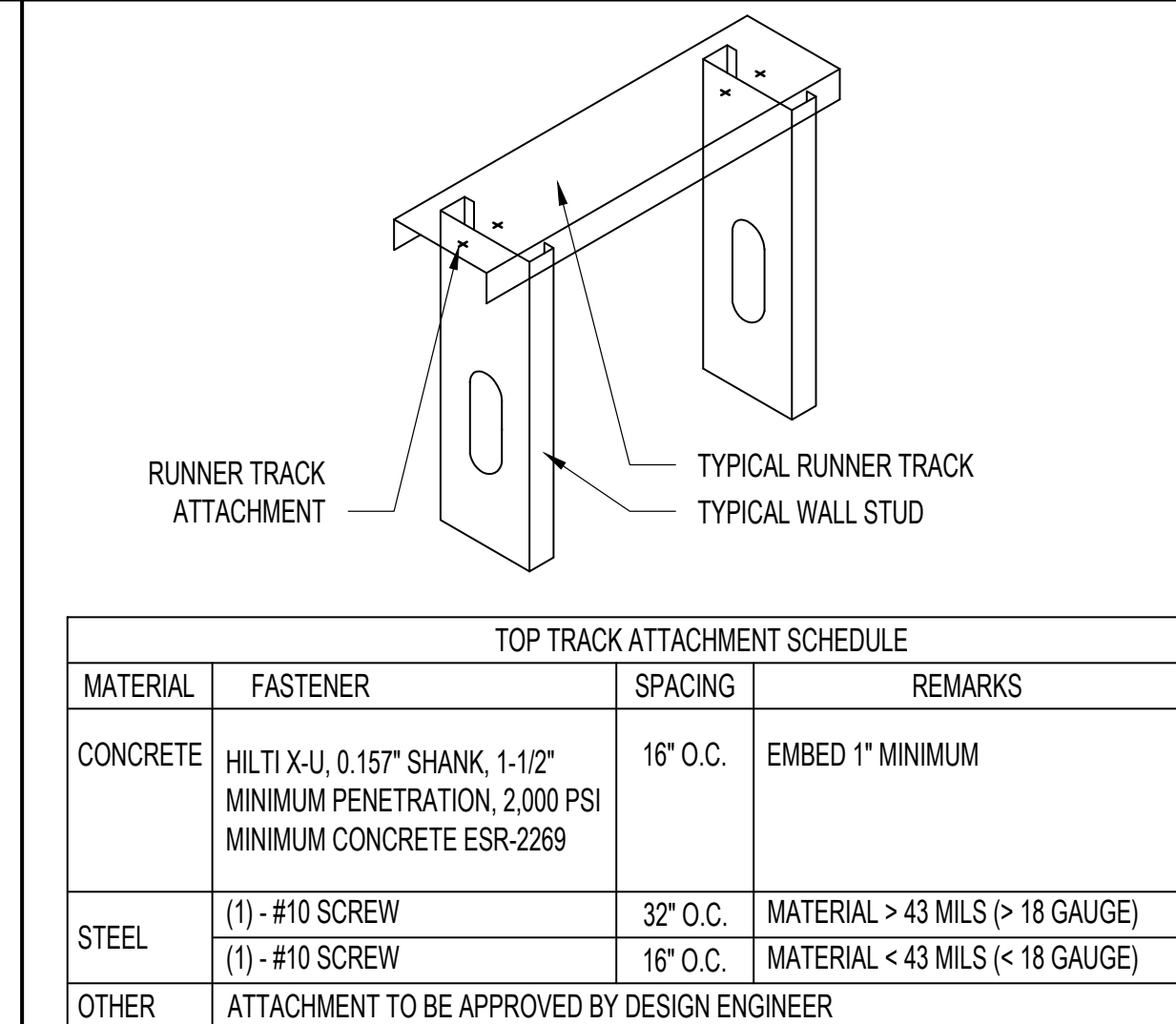
6 PANT WALL REVEAL DETAIL

SCALE
1'-0" = 1'-0"

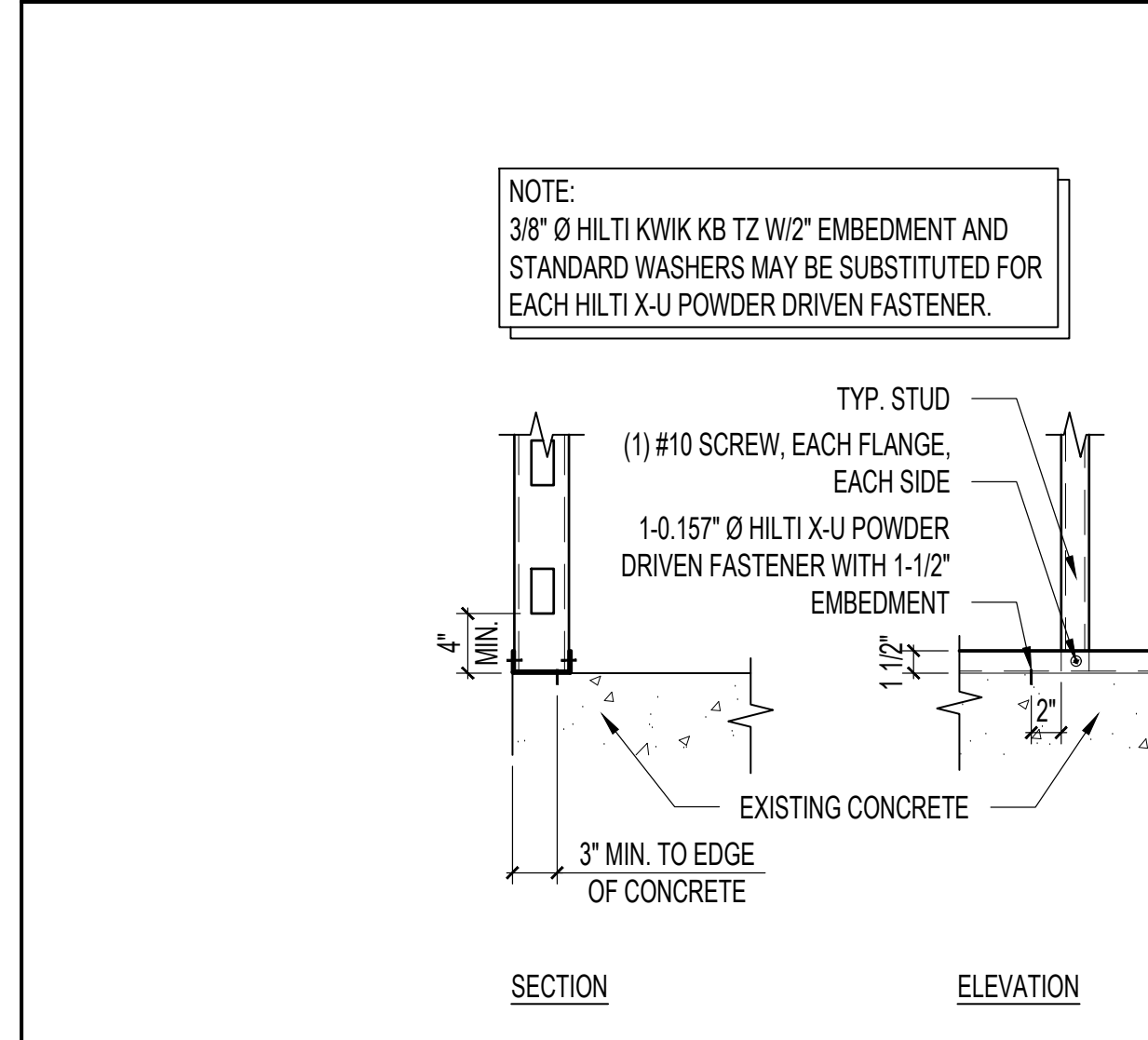


5 PANT WALL DETAIL

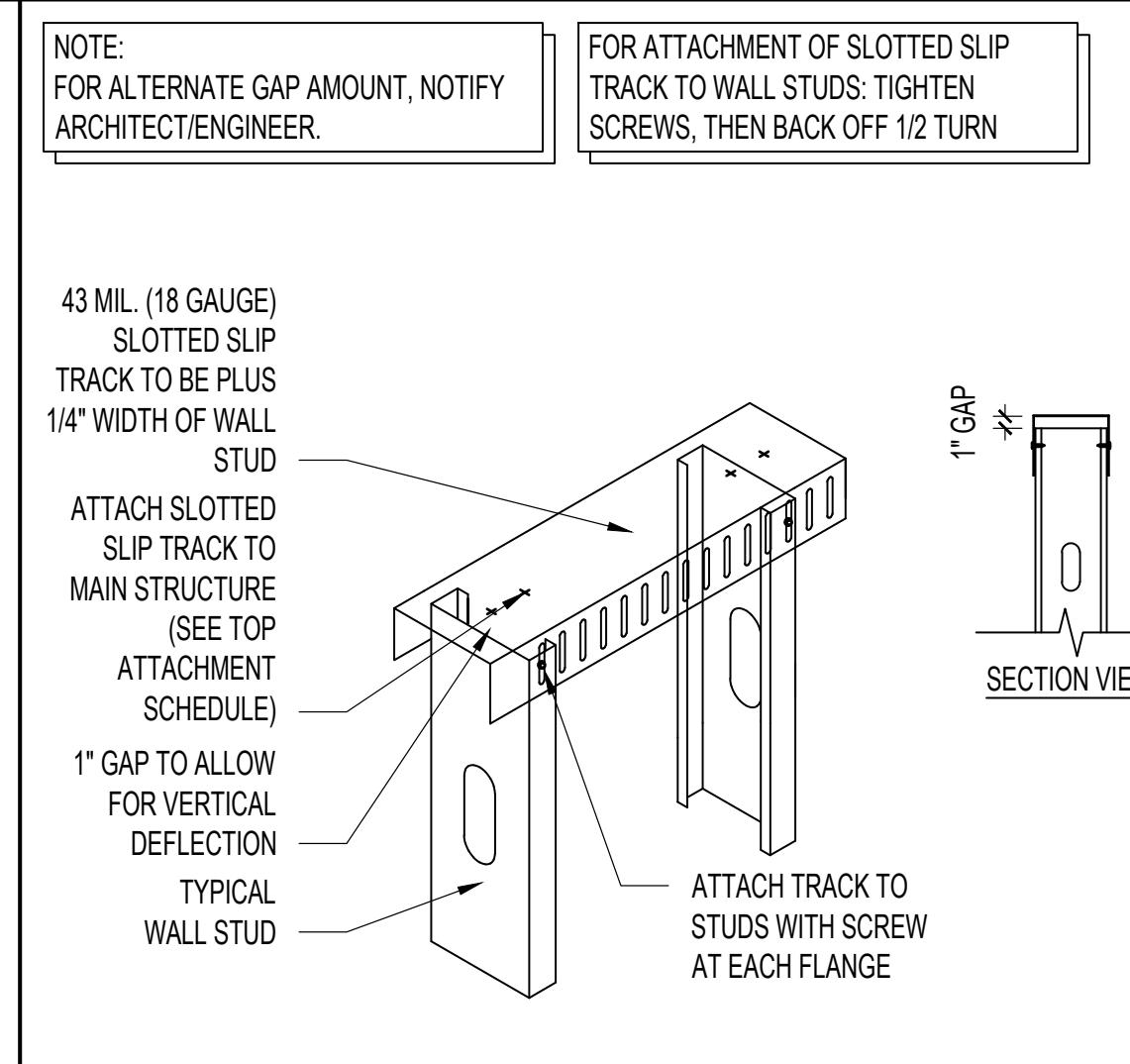
SCALE
3/4" = 1'-0"



2 PARTITION DETAIL - TOP TRACK



1 PARTITION DETAIL - TYPICAL BOTTOM TRACK AND AT DOOR OPENING



3 PARTITION DETAIL - SLOTTED TRACK

SCALE
3/4" = 1'-0"

NOTE:
NOTHING IS PERMITTED TO BE ATTACHED SUSPENDED FROM OR PENETRATED THROUGH THE ROOF DECK ABOVE. G.C. REQUIRED TO FRAME, BRACE AND SUSPEND FROM THE TOP CHORD OF THE JOIST OR STRUCTURAL STEEL WHICH EXISTS ABOVE YOUR TENANT SPACE.

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NOTE:
FOR ALTERNATE GAP AMOUNT, NOTIFY ARCHITECT/ENGINEER.

FOR ATTACHMENT OF SLOTTED SLIP TRACK TO WALL STUDS: TIGHTEN SCREWS, THEN BACK OFF 1/2 TURN

43 MIL (18 GAUGE) SLOTTED SLIP TRACK TO BE PLUS 1/4" WIDTH OF WALL STUD

ATTACH SLOTTED SLIP TRACK TO MAIN STRUCTURE (SEE TOP ATTACHMENT SCHEDULE)

1" GAP TO ALLOW FOR VERTICAL DEFLECTION

TYPICAL WALL STUD

ATTACH TRACK TO STUDS WITH SCREW AT EACH FLANGE

SECTION VIEW

1" GAP

JOSEPH A. SCHAEFER, JR.
REGISTERED ARCHITECT
NUMBER 0208085
ILLINOIS

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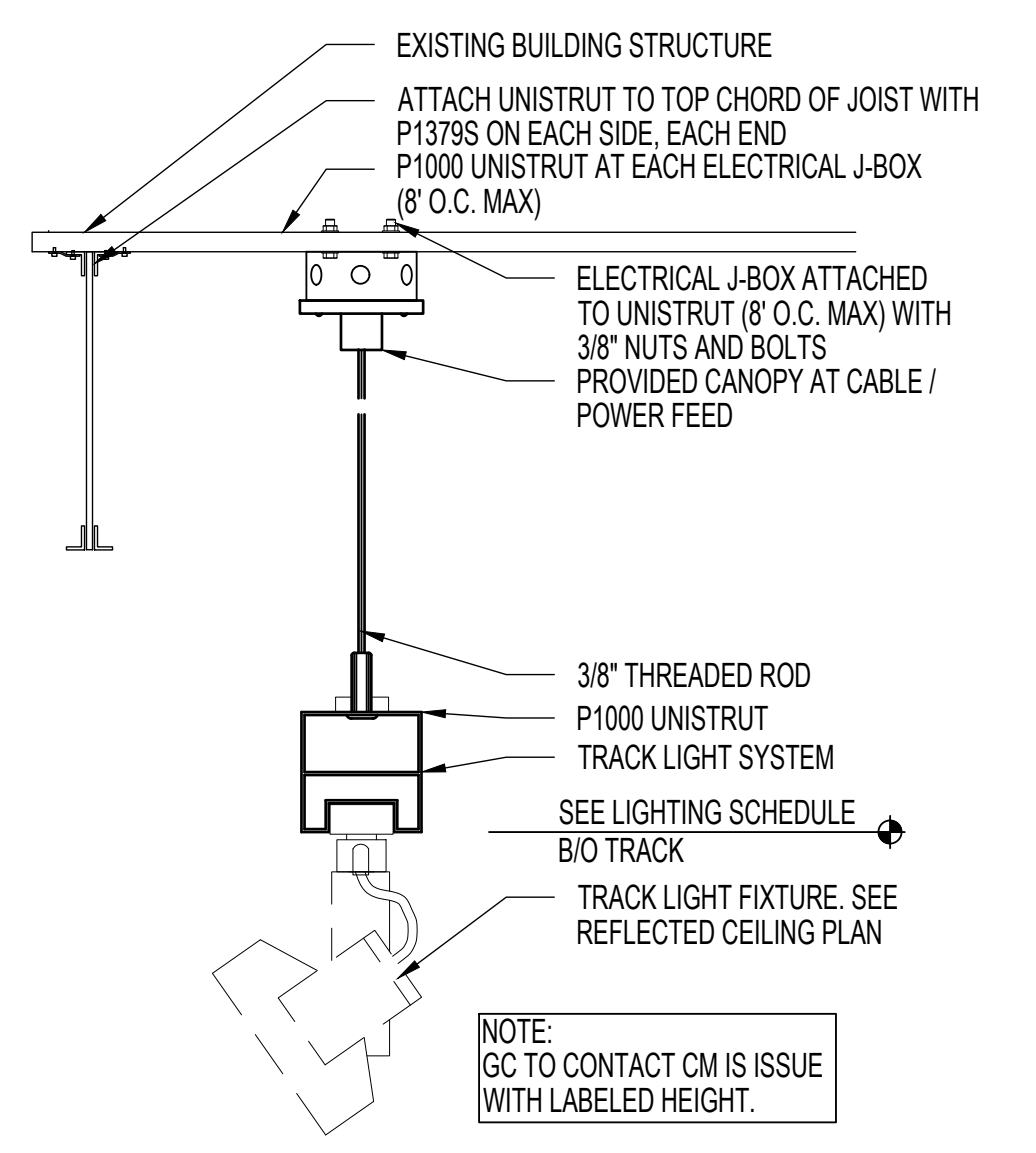
DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-1.4

A-1.4

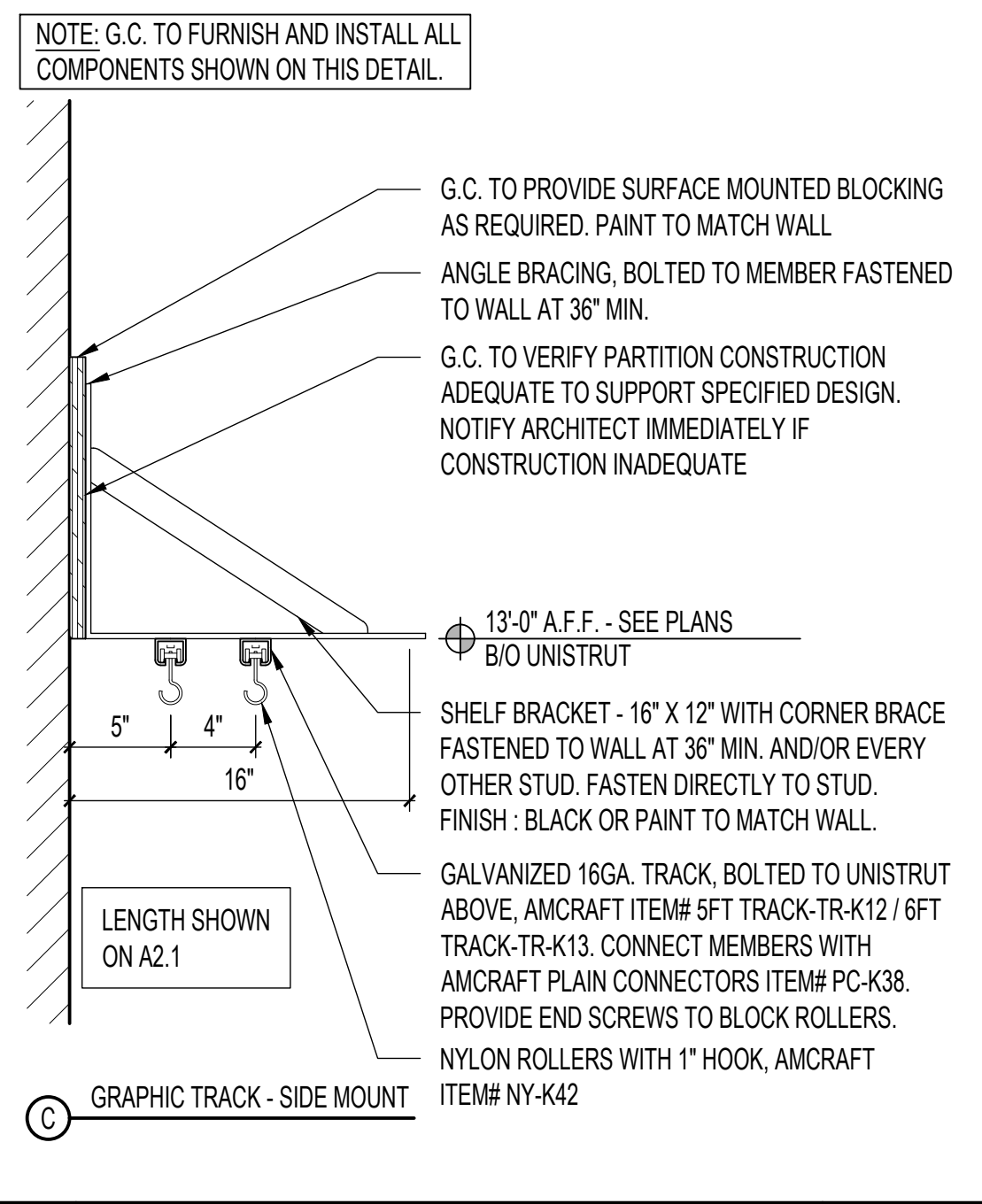
- THE FIRE ALARM/FIRE WARNING SYSTEM SHALL BE CERTIFIED BY UNDERWRITER'S LABORATORY (UL) AND SHALL BE MAINTAINED IN ACCORDANCE WITH CITY STANDARDS. PROOF OF CERTIFICATION SHALL BE PROVIDED PRIOR TO APPROVAL OF OCCUPANCY. ALL DIGITAL ALARM COMMUNICATION TRANSMITTERS SHALL REPORT DISTINCTIVE SIGNALS FROM THE SITE FOR WATER FLOW (BY BUILDING), GENERAL FIRE ALARM, SUPERVISORY, AND SYSTEM TROUBLE CONDITIONS.
- THE LANDLORD WILL PROVIDE THE BASE BUILDING FIRE ALARM SYSTEM. THE TENANT SHALL PROVIDE WITHIN THE TENANT'S SPACE ALL REQUIRED DEVICES, CONDUIT AND WIRE AND CONNECT TO THE BASE BUILDING SYSTEM. THE DESIGN, PLAN-CHECK SUBMITTAL, SYSTEM MATERIAL AND INSTALLATION, SYSTEM REPROGRAMMING AND TESTING INCLUDING THE MODIFICATION TO THE BASE BUILDING SYSTEM AND THE WORK WITHIN TENANT'S SPACE SHALL BE PERFORMED BY A LANDLORD DESIGNATED FIRE ALARM CONTRACTOR AT THE TENANT'S EXPENSE.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL O.S. - OCCUPANCY SENSOR SWITCHES AT FITTING ROOMS AND TOILET ROOMS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- ELECTRICAL CONTRACTOR TO VERIFY LIGHTING IS IN WORKING CONDITION WHEN JOB IS COMPLETE.
- NO DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE SUSPENDED OR ATTACHED TO THE FLOOR DECK AND/OR ROOF DECK. ALL SUCH ITEMS MUST BE SUSPENDED ONLY FROM JOISTS AND/OR BEAMS.
- BOTTOM OF SUSPENDED EMERGENCY LIGHTING TO BE MOUNTED AT SAME HEIGHT AS TRACK LIGHTING
- SUPPLY AND RETURN HVAC DIFFUSERS SHOWN FOR REFERENCE / LOCATION ONLY REFER TO MECHANICAL PLANS.
- SPRINKLER NOTES SHOWN ON THIS PLAN SHOULD SERVE AS A GUIDE ONLY AND THE CONTRACTOR SHOULD NOTIFY THE TENANT REPRESENTATIVE OF ANY SUBSTANTIAL CHANGE REQUIRED IN THE DESIGN TO COMPLY WITH REQUIRED PROTECTION STANDARDS.
- ALL HEADS IN GYP. BD. OR ACT CEILING ARE TO BE FULLY RECESSED AND CONCEALED WITH WHITE CAPS.
- PRIOR TO START OF WORK CONTRACTOR SHALL SUBMIT TO THE TENANT REPRODUCIBLE COPIES OF THE FIRE SPRINKLER PLANS STAMPED WITH THE APPROVAL OF THE LOCAL FIRE OFFICIAL (AND LANDLORD'S INSURANCE UNDERWRITERS WERE REQUIRED). CONTRACTOR TO VERIFY.
- ALL SOFFIT AREAS ARE TO BE FULLY SPRINKLERED AS REQUIRED BY CODE AND LANDLORD.
- ALL WORK TO BE IN CONFORMANCE WITH LOCAL BUILDING CODES, LANDLORD'S UNDERWRITER AND ALL OTHER AGENCIES HAVING JURISDICTION AND IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. G.C. TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS.
- SPRINKLER HEADS ARE TO BE CENTERED ON ACOUSTIC TILE AND/OR LOCATED AS SHOWN ON APPROVED SPRINKLER SHOP DRAWINGS.

A FIRE ALARM NOTES B GENERAL NOTES C SPRINKLER NOTES - KEY NOTES

NOTE: NOTIFY OWNER/PROJECT MANAGER IMMEDIATELY IF LIGHT FIXTURES AND CEILING HEIGHTS ARE NOT ACHIEVABLE



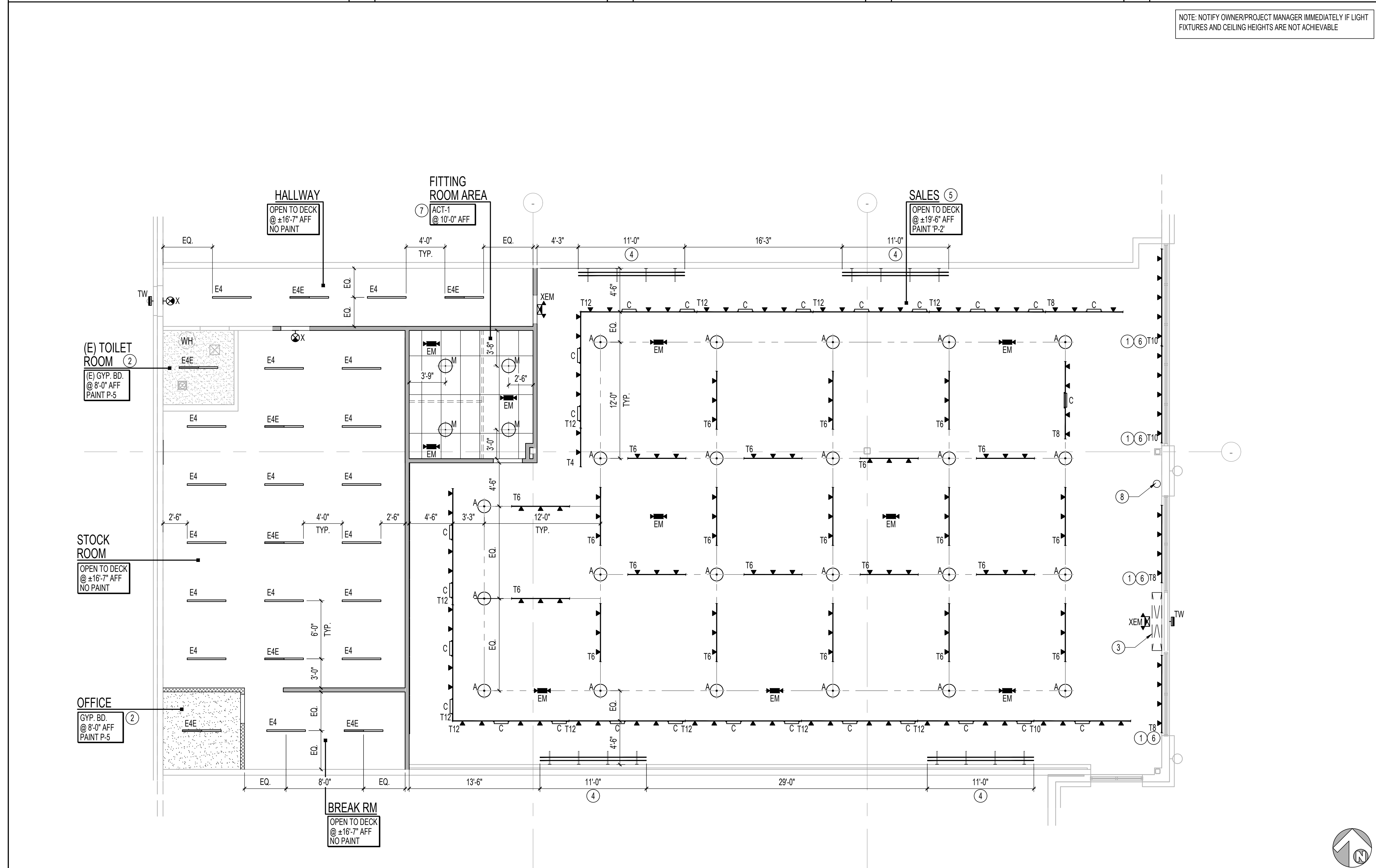
4 SUSPENDED TRACK LIGHT DETAIL SCALE N.T.S.




3 GRAPHIC TRACK DETAIL SCALE 1 1/2\"/>

TAG	SYMBOL	DESCRIPTION	HEIGHT
A	⊕	HIGH BAY LIGHTING	BOTTOM @ 13'-0\"/>
B	▼	TRACK HEAD - LED SPOT	TRACK MOUNTED
C	▬	TRACK HEAD - WALL WASHER	TRACK MOUNTED
E4	▬	4FT LINEAR LED	12'-0\"/>
E4E	▬	4 FT LINEAR LED W/ EMERGENCY	12'-0\"/>
K	⊙	6\"/>	
M	⊕	PENDANT LIGHT (FITTING ROOM)	BOTTOM AT 9'-0\"/>
T	▬	1 CIRCUIT TRACK (LENGTH PER PLAN), 2, 4, 6, 8, 12	13'-0\"/>
TW	⊥	EXTERIOR EMERGENCY LIGHT	6\"/>
EM	▬	EMERGENCY LIGHT WITH BATTERY BACK UP	12'-0\"/>
X	⊗	EXIT SIGN	10'-0\"/>

2 LIGHT FIXTURE SCHEDULE



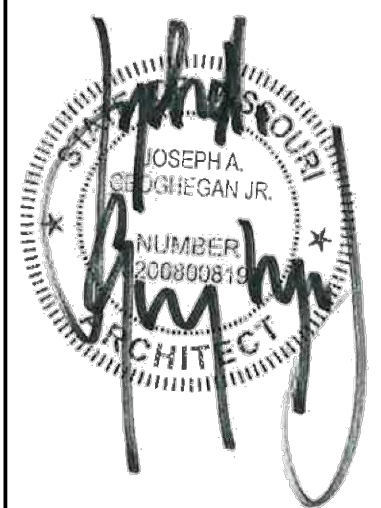
1 REFLECTED CEILING PLAN SCALE 3/16\"/>



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REFLECTED CEILING PLAN
 DETAILS & NOTES

DRAWN BY: SLS
 CHECKED BY: SL
 JOB NUMBER: 25303
 SHEET NAME: A-2.1

STOREFRONT WORK:
 THE STORE FACADE, GLAZING, BASE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 NEW EXTERIOR WORK IS LIMITED TO THE FOLLOWING
 • STOREFRONT SIGNAGE
 • FACADE (EIFS) REPAIR

SIGN FURNISHED AND INSTALLED BY EXTERIOR SIGN CONTRACTOR. G.C. SHALL COORDINATE INSTALLATION WITH SIGN CONTRACTOR. SIGN CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT PRIOR TO FABRICATION. SIGN COMPANY TO PULL SEPARATE PERMIT FOR ALL SIGNAGE.

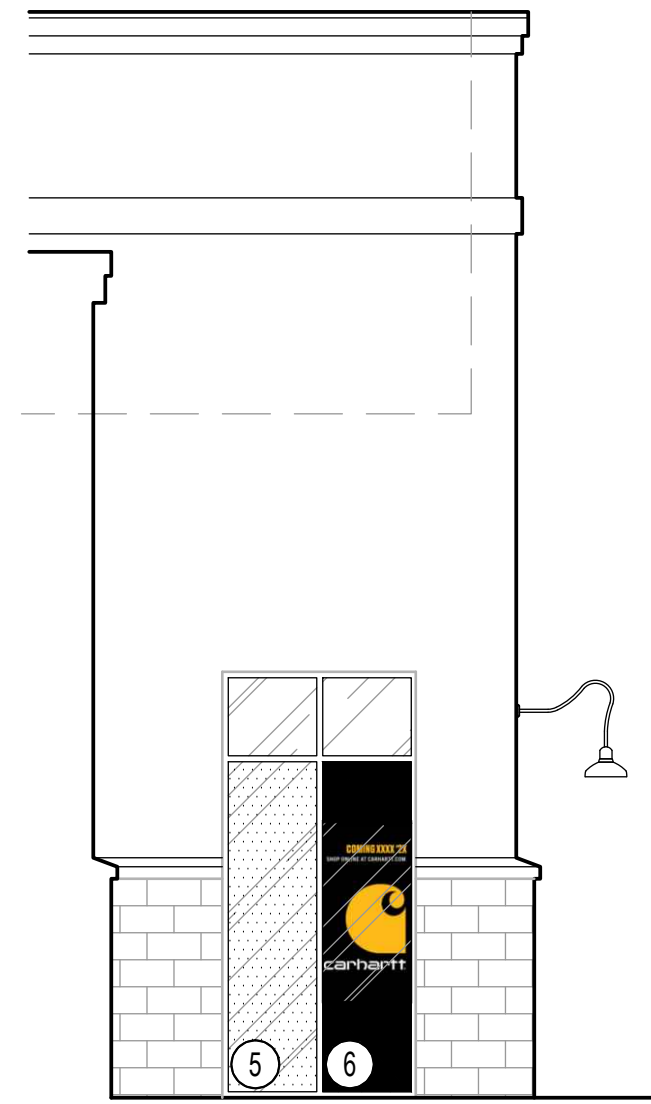
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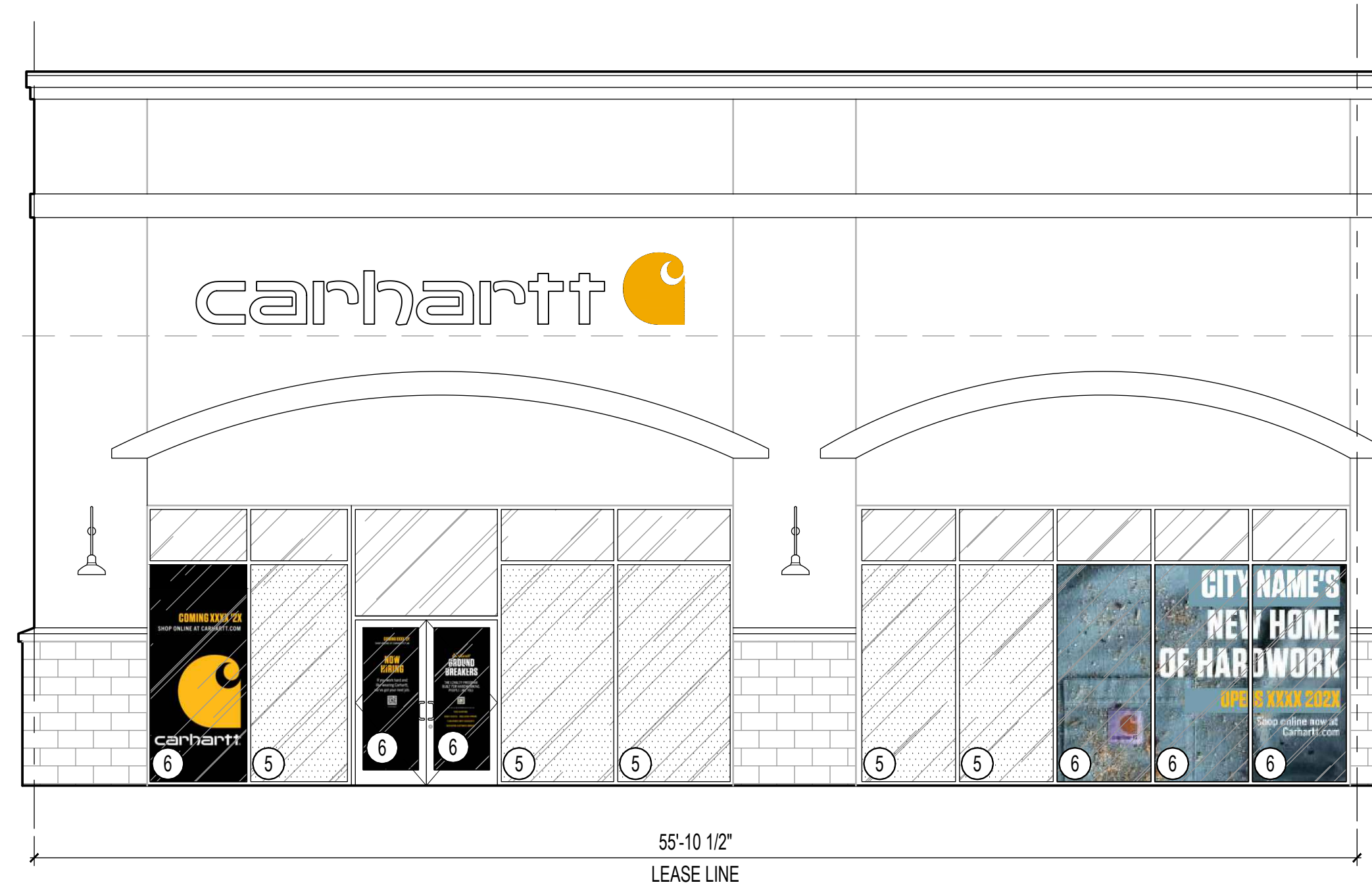
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NOTE:
 INSTALL COMING SOON GRAPHICS WITHIN FIRST WEEK OF CONSTRUCTION.

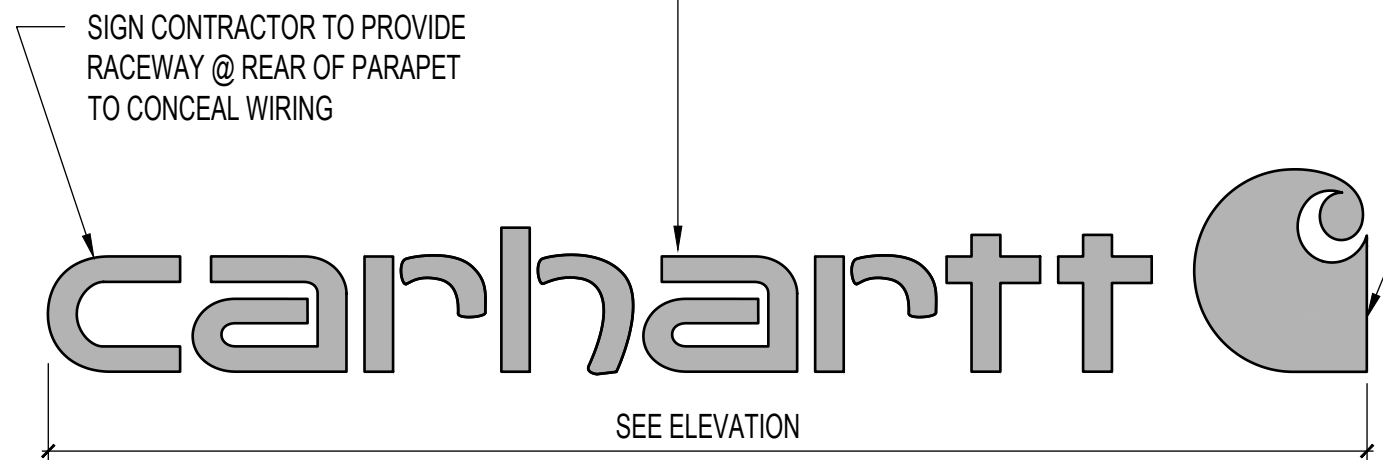


NOTE:
 INSTALL COMING SOON GRAPHICS WITHIN FIRST WEEK OF CONSTRUCTION.



LETTERS SHALL BE:
 TYPE: FACE-LIT
 FACE OF LETTERS SHALL BE: BLACK (DAY) / WHITE (NIGHT)
 RETURNS OF LETTERS SHALL BE: BLACK

LOGO SHALL BE:
 TYPE: FACE-LIT
 FACE OF LETTERS SHALL BE: MATTE YELLOW PMS #130
 FACES, RETAINER & RETURNS SHALL BE: MATTE YELLOW PMS #130



SIGN CONTRACTOR TO PROVIDE RACEWAY @ REAR OF PARAPET TO CONCEAL WIRING

A SIGNAGE DETAILS

SCALE
 1"=1'-0"

- EXISTING FACADE TO REMAIN. PATCH/REPAIR FACADE AS REQUIRED TO A LIKE-NEW APPEARANCE. MATCH EXISTING PAINT (COORDINATE WITH LANDLORD FOR COLOR / FINISH)
- COORDINATE WITH SIGN CONTRACTOR DRAWINGS.
- APPROXIMATE LINE OF ROOF BEHIND PARAPET.
- EXISTING STOREFRONT GLAZING SYSTEM TO REMAIN. GC SHALL CLEAN, INSPECT & NOTIFY ARCHITECT IMMEDIATELY OF ANY NECESSARY REPAIRS.
- GC TO PROVIDE & INSTALL BLACK PAPER ON STOREFRONT GLAZING AS SHOWN. REMOVE AT END OF CONSTRUCTION.
- VINYL GRAPHICS AS SHOWN. SEE SHEET F-2.1
- EXISTING LANDLORD EXTERIOR LIGHT FIXTURE(S) TO BE REMAIN. NOTIFY ARCHITECT IMMEDIATELY IF NOT OPERATIONAL.
- NEW EXTERIOR LIGHT. SEE A-2.1 & ELECTRICAL SHEETS.

3A STOREFRONT ELEV. - COMING SOON GRAPHICS

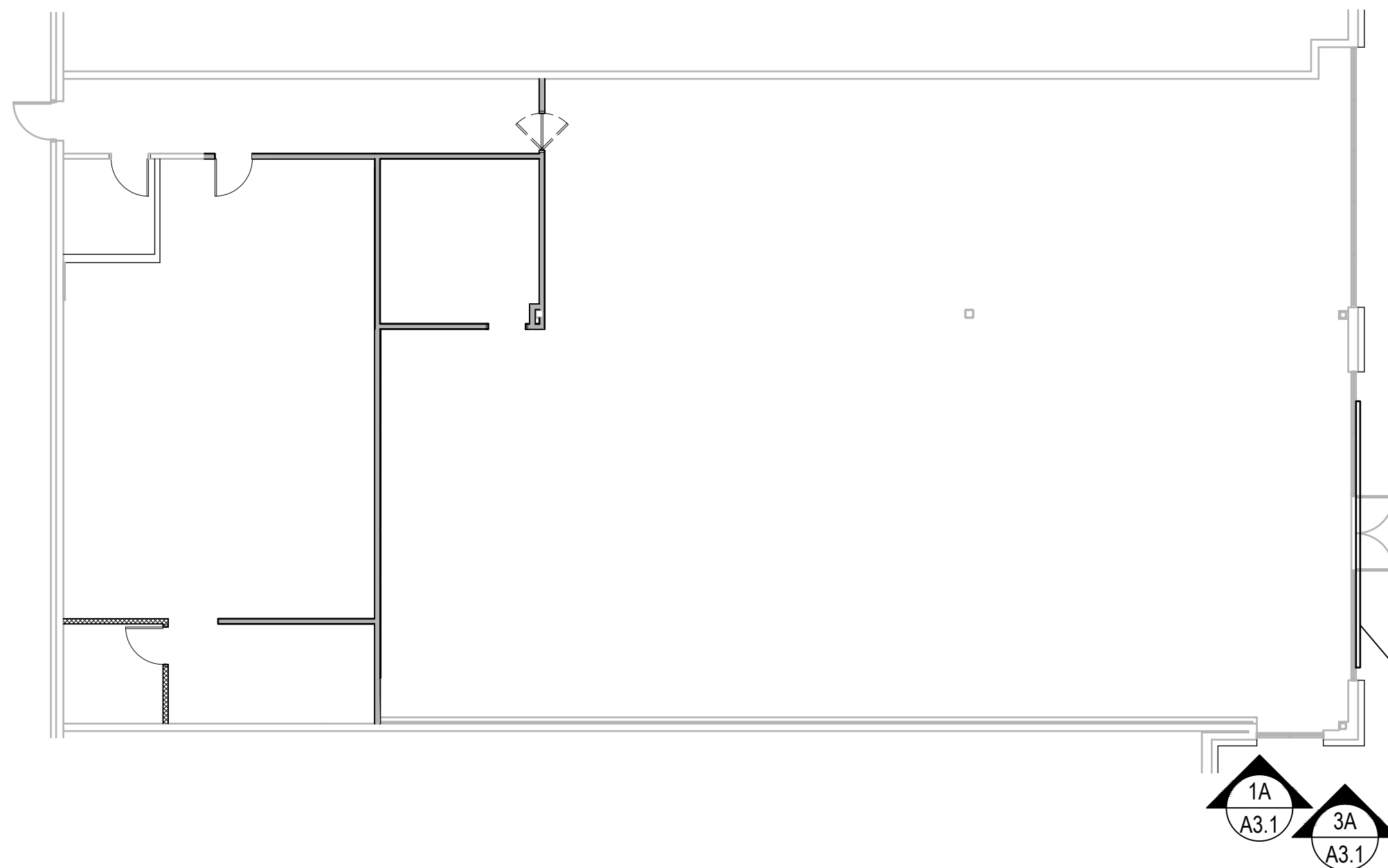
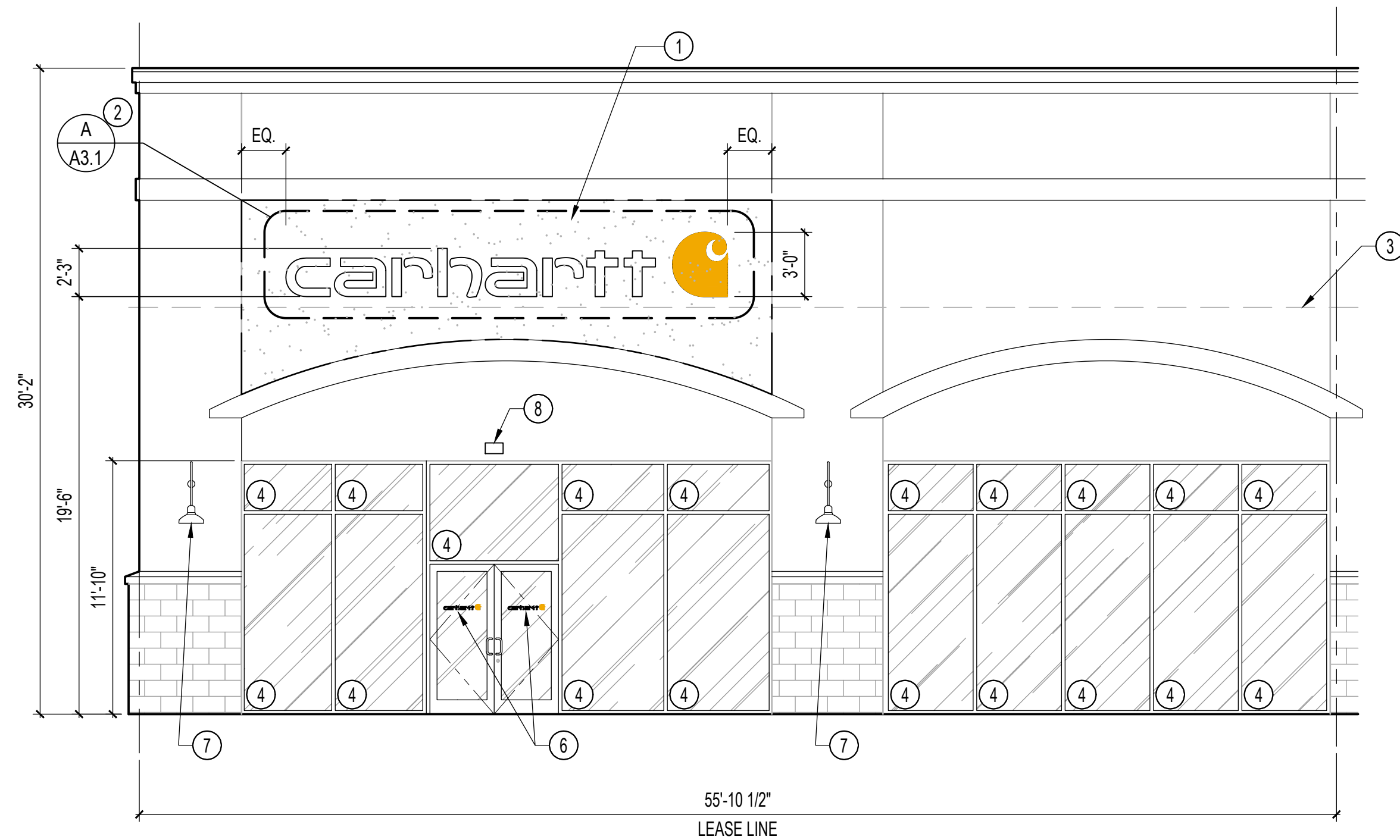
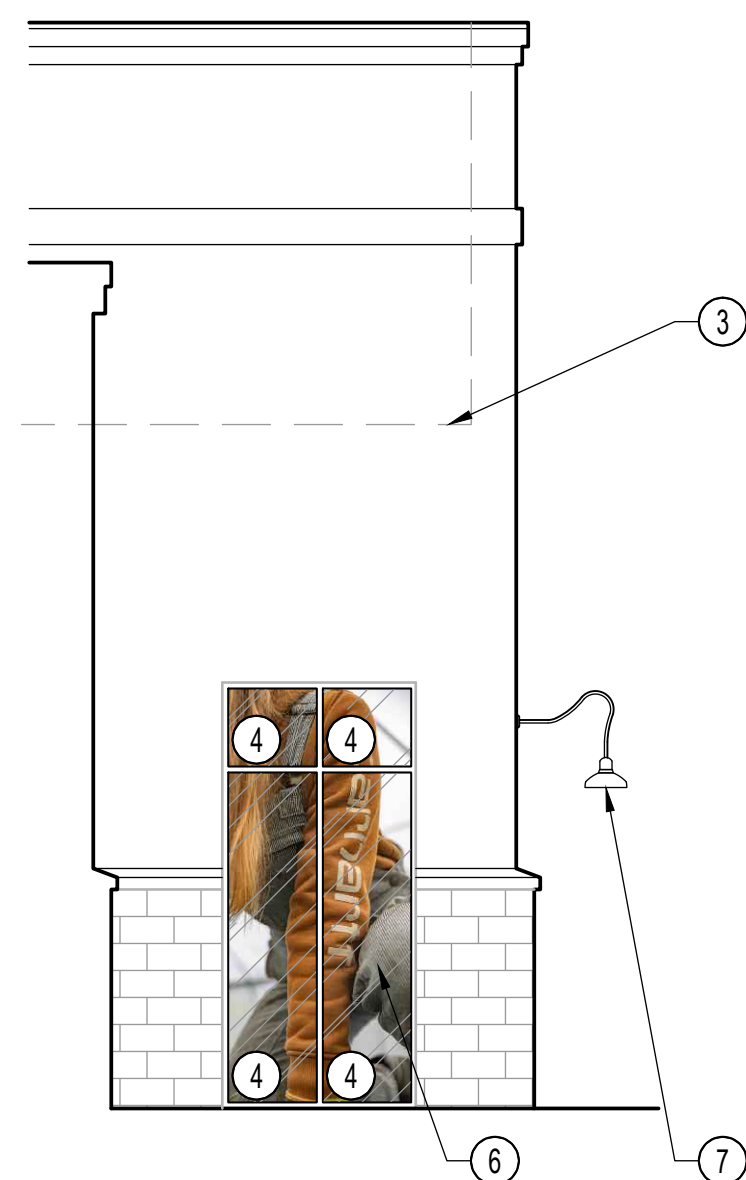
SCALE
 3/16"=1'-0"

3B STOREFRONT ELEV. - COMING SOON GRAPHICS

SCALE
 3/16"=1'-0"

- KEY NOTES

#



1A STOREFRONT ELEVATION

SCALE
 3/16"=1'-0"

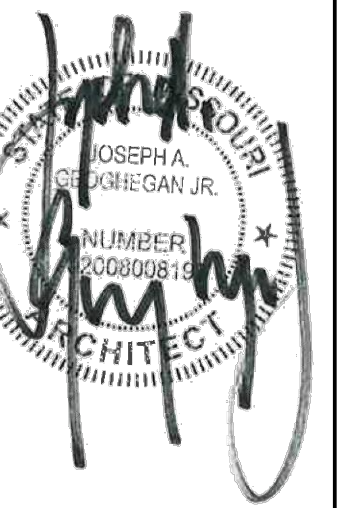
1B STOREFRONT ELEVATION

SCALE
 3/16"=1'-0"

2 SIGN KEY PLAN

SCALE
 3/32"=1'-0"

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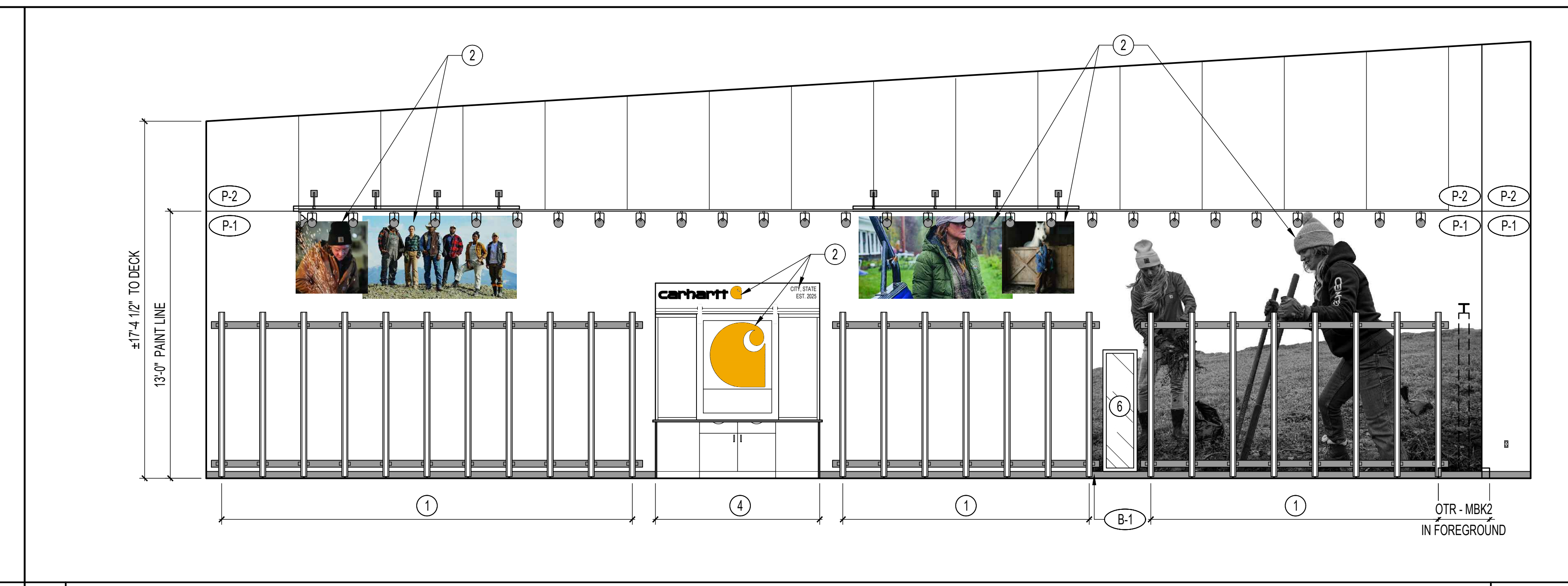
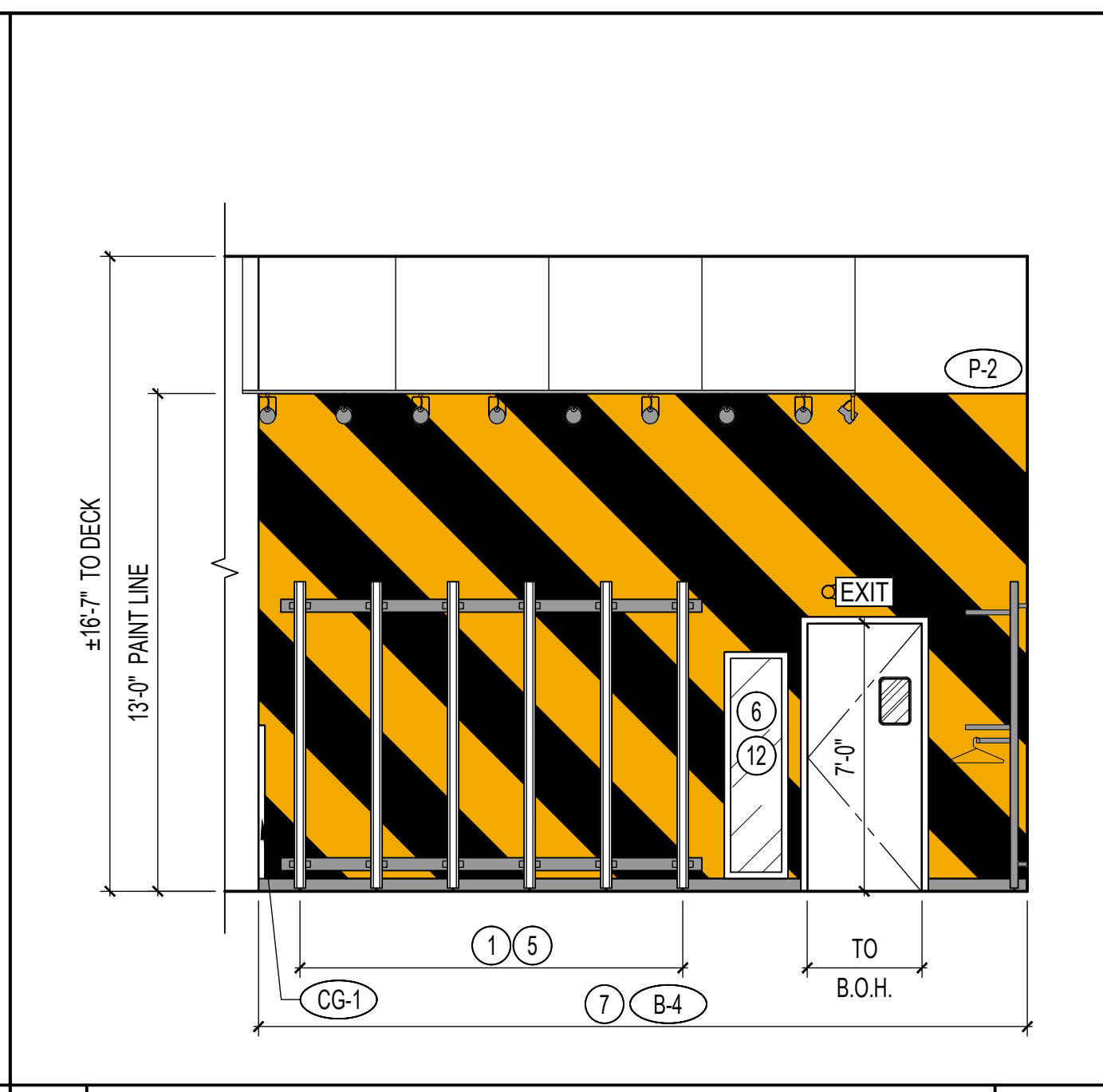
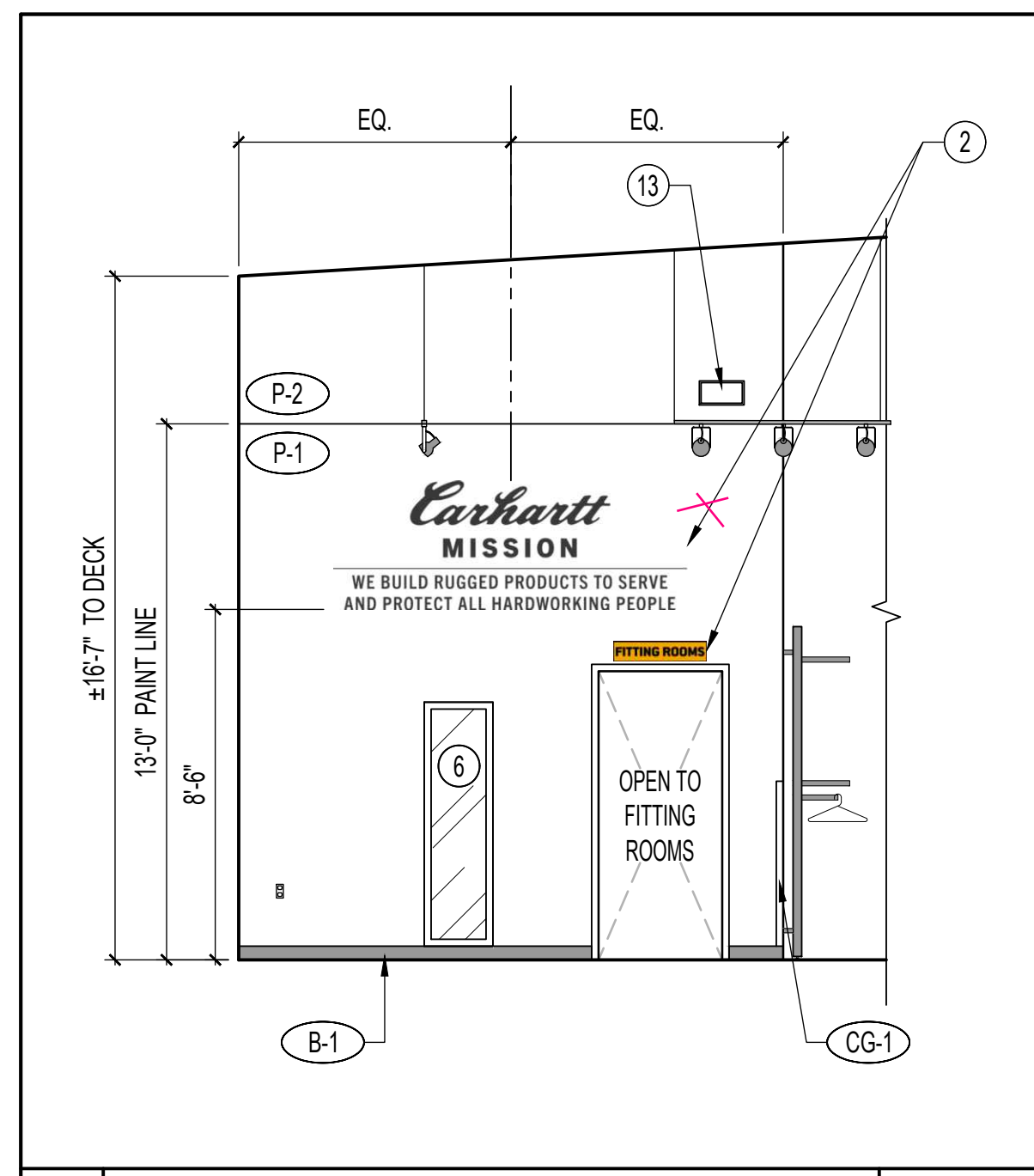


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EXTERIOR ELEVATION

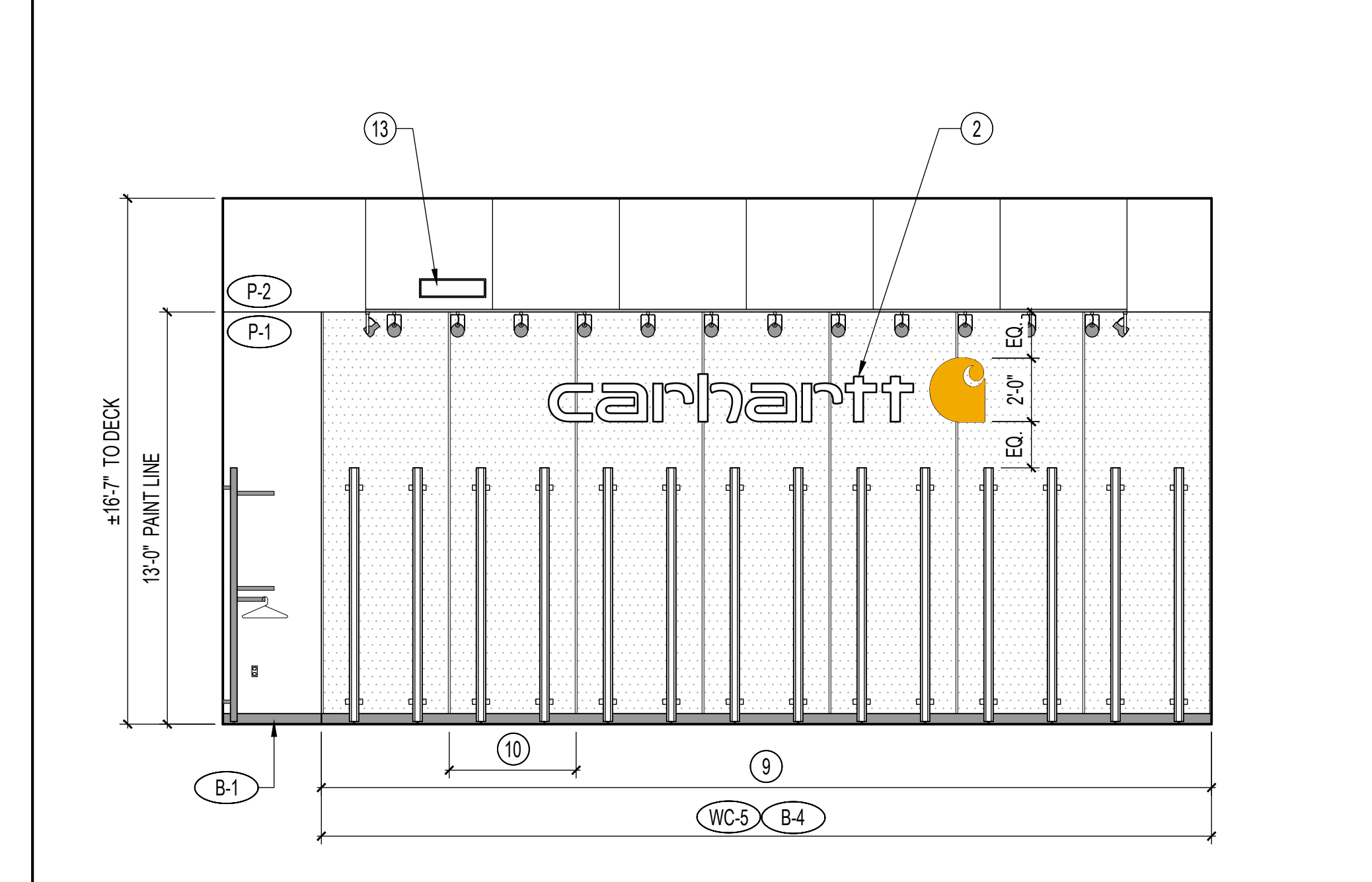
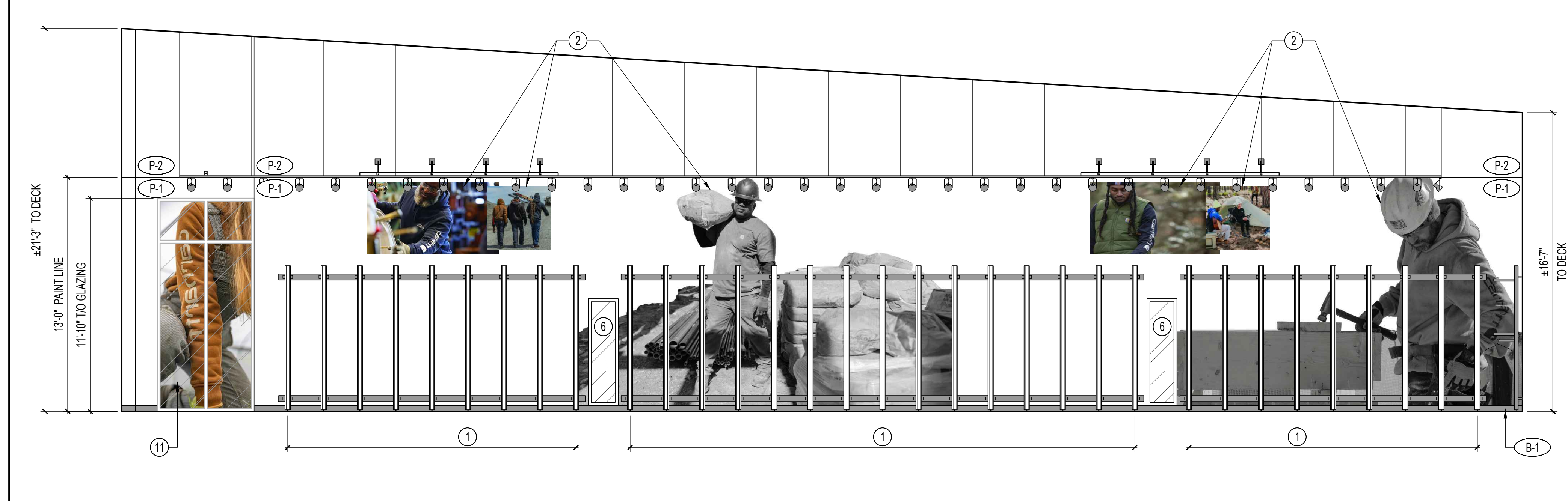
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SHEET NAME	A-3.1



4 ELEVATIONS - SALES SCALE 1/4"=1'-0"

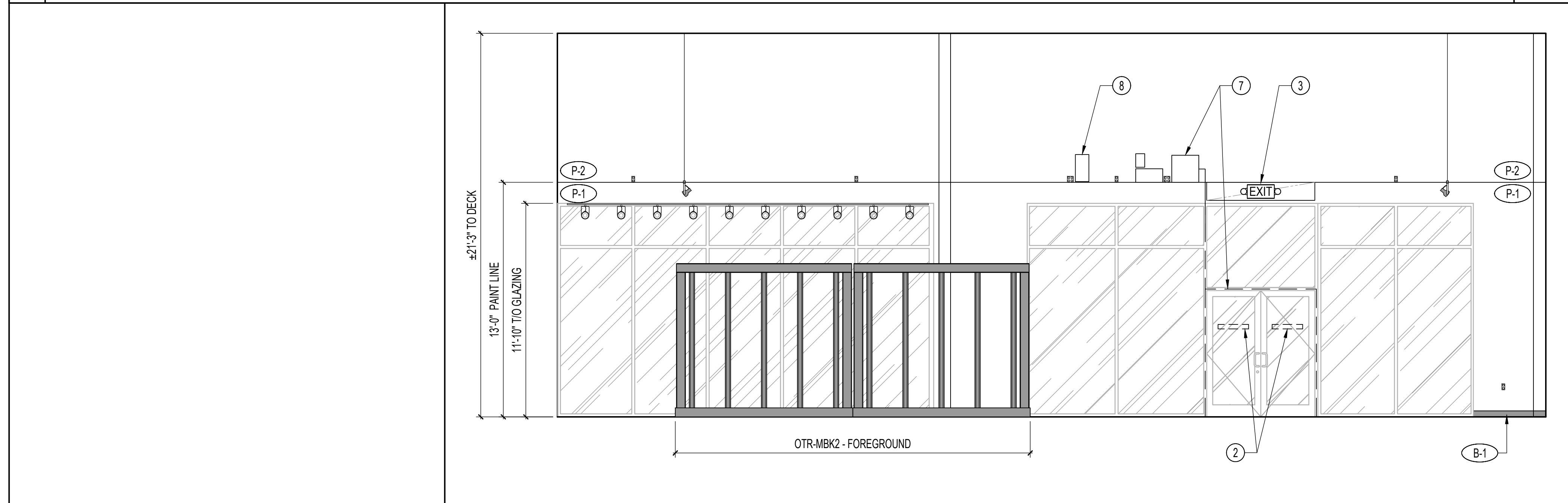
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6 ELEVATIONS - SALES SCALE 1/4"=1'-0"



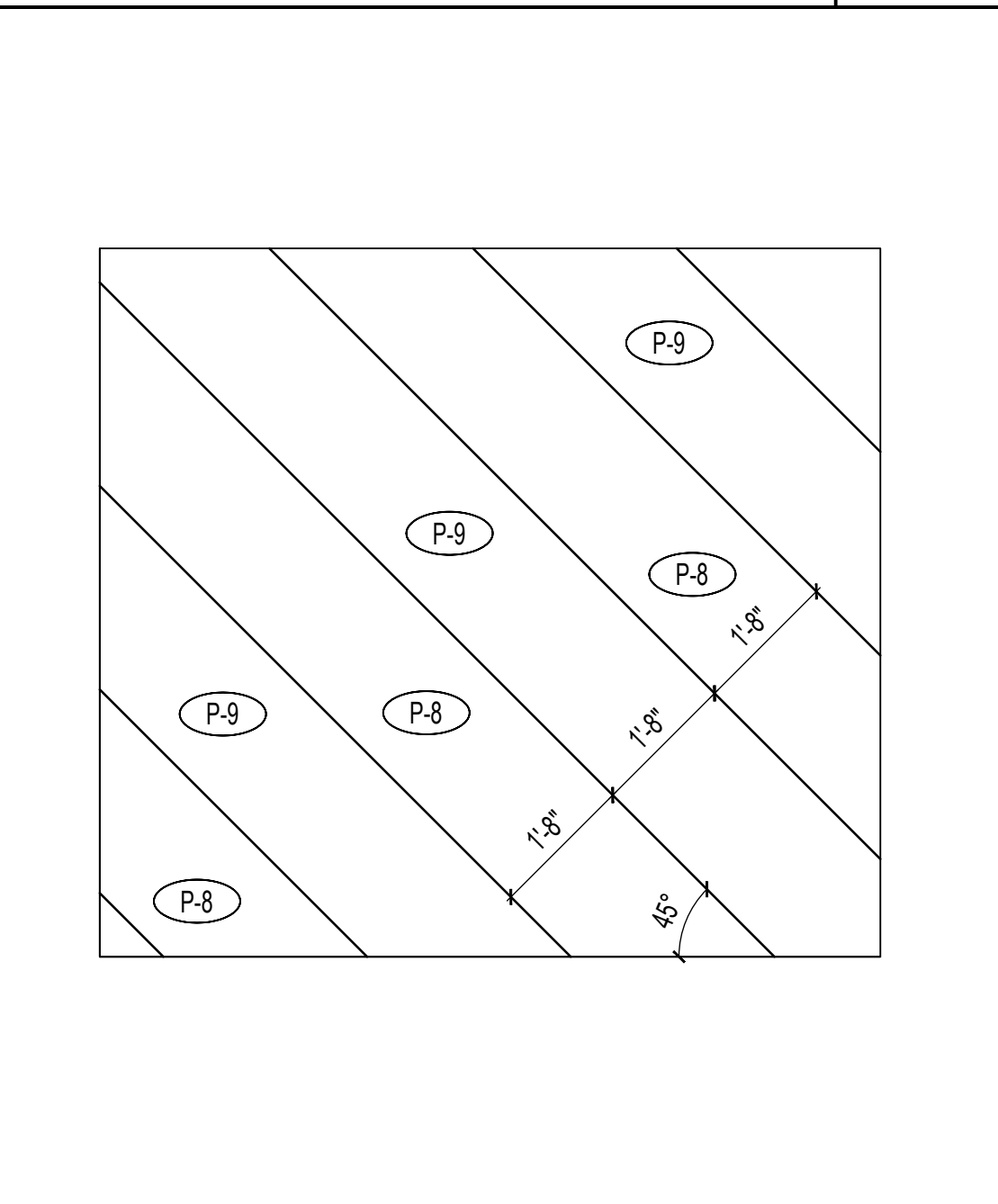
2 ELEVATIONS - SALES SCALE 1/4"=1'-0"

3 ELEVATIONS - SALES SCALE 1/4"=1'-0"



1 ELEVATIONS - SALES SCALE 1/4"=1'-0"

1. FIXTURE POST SYSTEM. SEE DETAIL ON F-1.1.
2. GRAPHIC / INTERIOR SIGNAGE. SEE F-2.1 FOR DETAILS.
3. NEW AIR CURTAIN. SEE MECHANICAL SHEETS.
4. MILLWORK.
5. WALL BLOCKING / PLYWOOD IN THIS AREA TO BE PAINTED 'P-8'. PAINT WALL PER B/A4.1
6. WALL MOUNTED MIRROR
7. PATH FOR SENSORMATIC / EAS LOOP AND ASSOCIATED EQUIPMENT. G.C. TO PAINT EAS MOULDING / COVER TO MATCH ADJACENT SURFACE.
8. OWNER SUPPLIED / G/C INSTALLED SCENT MACHINE
9. PAINT WALL WITH POST SYSTEM. SEE DETAILS A-1.4 & F-1.1
10. 3/4" REVEALS AT 48" O.C. TO BE CENTERED AT PAINT WALL GYP. BD. SEE DETAILS A-1.4
11. VINYL ON GLAZING. SEE F-2.1
12. PAINT MIRROR FRAME 'P-8'
13. APPROXIMATE LOCATION OF TRANSFER GRILL. SEE MECHANICAL SHEETS.



A KEY NOTES #

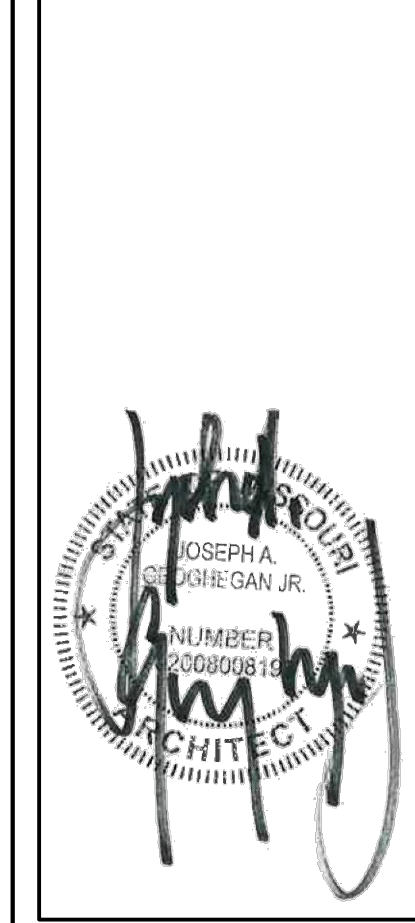
B CAUTION TAPE PAINT SCALE 1/2"=1'-0"



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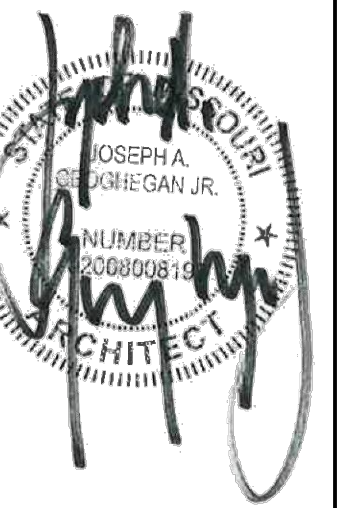
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INTERIOR ELEVATIONS

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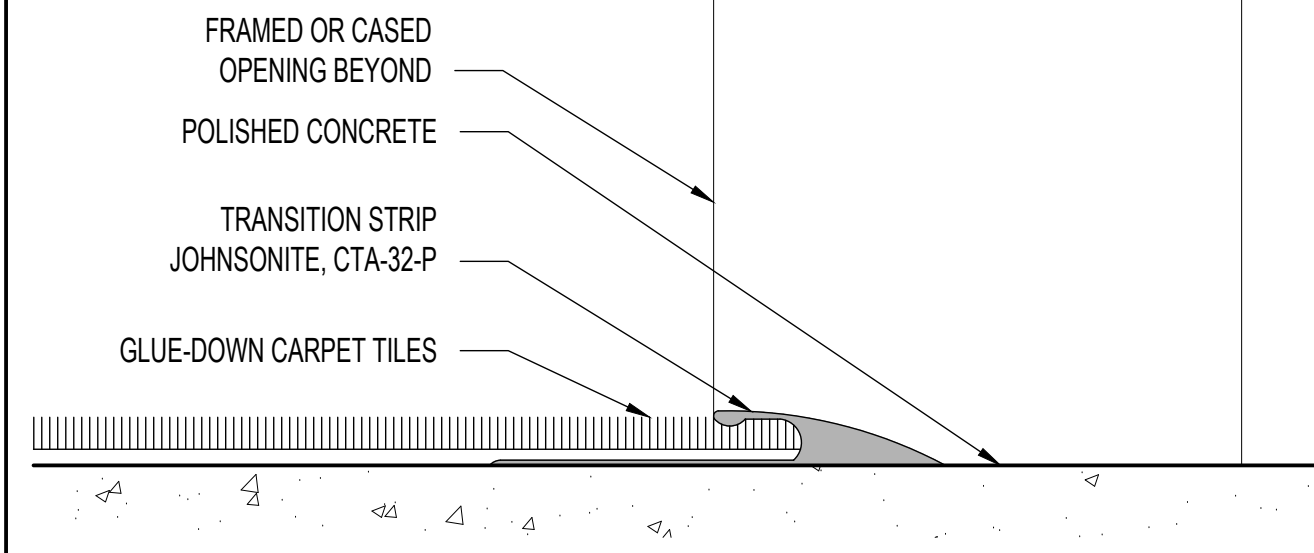
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- EXISTING STEEL COLUMNS, PAINT 'P-2' THROUGHOUT SALES AREA.
- INSTALL 'WC-2' FLOOR TO 4'-0". PAINT TO MATCH ADJACENT WALL.
- INSTALL 'WC-2' FLOOR TO 8'-0". PAINT TO MATCH ADJACENT WALL.
- G.C. TO INSTALL A STRIPED PATH ON THE FLOORING. G.C. TO USE RED COLOR ON CONCRETE. 8" STRIPE / 8" UNPAINTED.
- WALLS SHALL BE PAINTED TO DECK. DO NOT PAINT DECK.

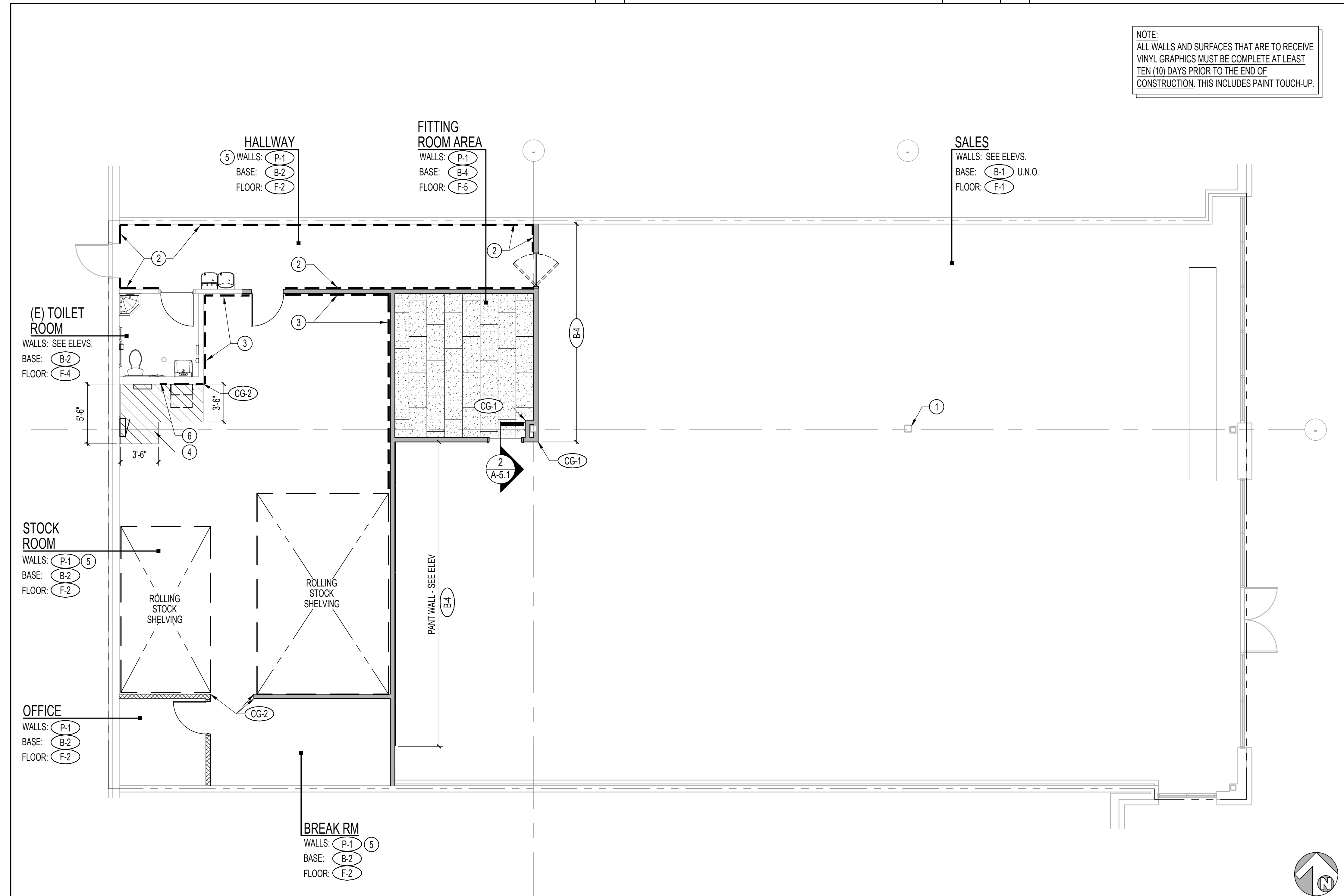


2 FLOOR TRANSITION - CONCRETE TO CARPET

SCALE
6" = 1'-0"

KEY NOTES

NOTE:
ALL WALLS AND SURFACES THAT ARE TO RECEIVE VINYL GRAPHICS MUST BE COMPLETE AT LEAST TEN (10) DAYS PRIOR TO THE END OF CONSTRUCTION. THIS INCLUDES PAINT TOUCH-UP.



1 FINISH PLAN

SCALE
3/16" = 1'-0"

- (WALL MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO RECESSED SINGLE GANG J-BOX IN WALL. NO COVER PLATE IS NEEDED. CARHARTT'S TECH WILL EXTEND INTO THE BOXES AND TERMINATE. LEAVE SLACK SO THIS MAY BE TERMINATED. J-BOX SHALL BE INSTALLED AT HEIGHT SHOWN. J-BOX MAY BE SURFACE MOUNTED IF ON STEEL COLUMN OR MASONRY WALL. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF SALES / STOCKROOM. LABEL BOTH ENDS OF THE CABLE.
- (METAL DECK MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX SUSPENDED FROM THE DECK. J-BOX SHALL QUAD J-BOX WITH SINGLE GANG DEVICE RING AND SHALL BE SUSPENDED AT 11'-6" A.F.F. WITH CONDUIT TO DECK. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM OR SALES AREA BUT IS REQUIRED IN THE WALLS FOR THE VERTICAL PORTION OF THE RUN IN THE SALES AREA. SEE 2/A6. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (CONCRETE DECK MOUNT / WOOD JOIST AND DECK MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX SUSPENDED FROM THE DECK. J-BOX SHALL QUAD J-BOX WITH SINGLE GANG DEVICE RING AND SHALL BE SUSPENDED AT 11'-6" A.F.F. WITH CONDUIT TO DECK. REVIEW LOCATIONS WITH REQUIRED LOW VOLTAGE WIRING SUB-CONTRACTOR PRIOR TO INSTALLING CONDUIT. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM BUT IS REQUIRED AT CEILING / DECK OF SALES AREA. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (CEILING MOUNT) ROUTE (1) CAT 6 CABLE FROM PATCH PANEL IN DATA RACK TO J-BOX ABOVE CEILING. LOOP CABLE ABOVE CEILING USING PROPER SUPPORTS. J-BOX TO BE MOUNTED WITHIN 18" ABOVE CEILING AND 24" OF DEVICE LOCATION SHOWN. PROVIDE 10' OF SERVICE LOOP ON SECONDARY END. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (EXTERIOR DOOR) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO WATERPROOF DUAL GANG J-BOX. J-BOX SHALL BE INSTALLED AT HEIGHT SHOWN. J-BOX MUST BE RECESSED UNLESS INSTALLED IF ON MASONRY WALL. LABEL BOTH ENDS OF THE CABLE.
- (CASHWRAP) ROUTE SEVERAL CAT 6 CABLES IN CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX IN CABINET. EXTEND CABLES TO THE CASHWRAP AND LEAVE LOOPED WITHIN THE CASHWRAP AT LOCATION OF LOCATION OF EMPTY J-BOX. PROVIDE SLACK SO THEY CAN BE EXTENDED TO THE ENDS OF THE CASHWRAP. LABEL BOTH ENDS OF THE CABLE. CARHARTT'S TECH WILL EXTEND INTO THE BOXES AND TERMINATE. INSTALL SINGLE GANG J-BOX FOR EACH POS AT INSIDE REAR SURFACE OF CABINET. SEE 2/A6.1. NUMBER OF CABLES ARE REPRESENTED ON THE PLAN WITH A TRIANGLE SYMBOL. USE INDUSTRY STANDARD FOR CONDUIT SIZE BASED ON THE QUANTITY OF CABLES SHOWN.
- GC TO INSTALL OWNER SUPPLIED DATA RACK ON WALL AT THE HEIGHTS / LOCATIONS SHOWN ON 3/A6.1. ALL CABLES SHOULD BE LEFT NEXT TO THE RACK WITH PLENTY OF SLACK. THE CARHARTT TECH WILL EXTEND INTO THE RACK AND TERMINATE ON THE PATCH PANELS.
- GC TO ROUTE TWO (2) CAT6 CABLES IN EXISTING LANDLORD CONDUIT FROM BUILDING TELCO ROOM / MDF TO TENENTS DATA RACK AREA / IDF. ASSUME 300' FOR PRICING.

SYMBOL	DESCRIPTION
▼	DATA OUTLET
⬇	CEILING MOUNTED DATA OUTLET
⬇	FLOOR MOUNTED DATA OUTLET

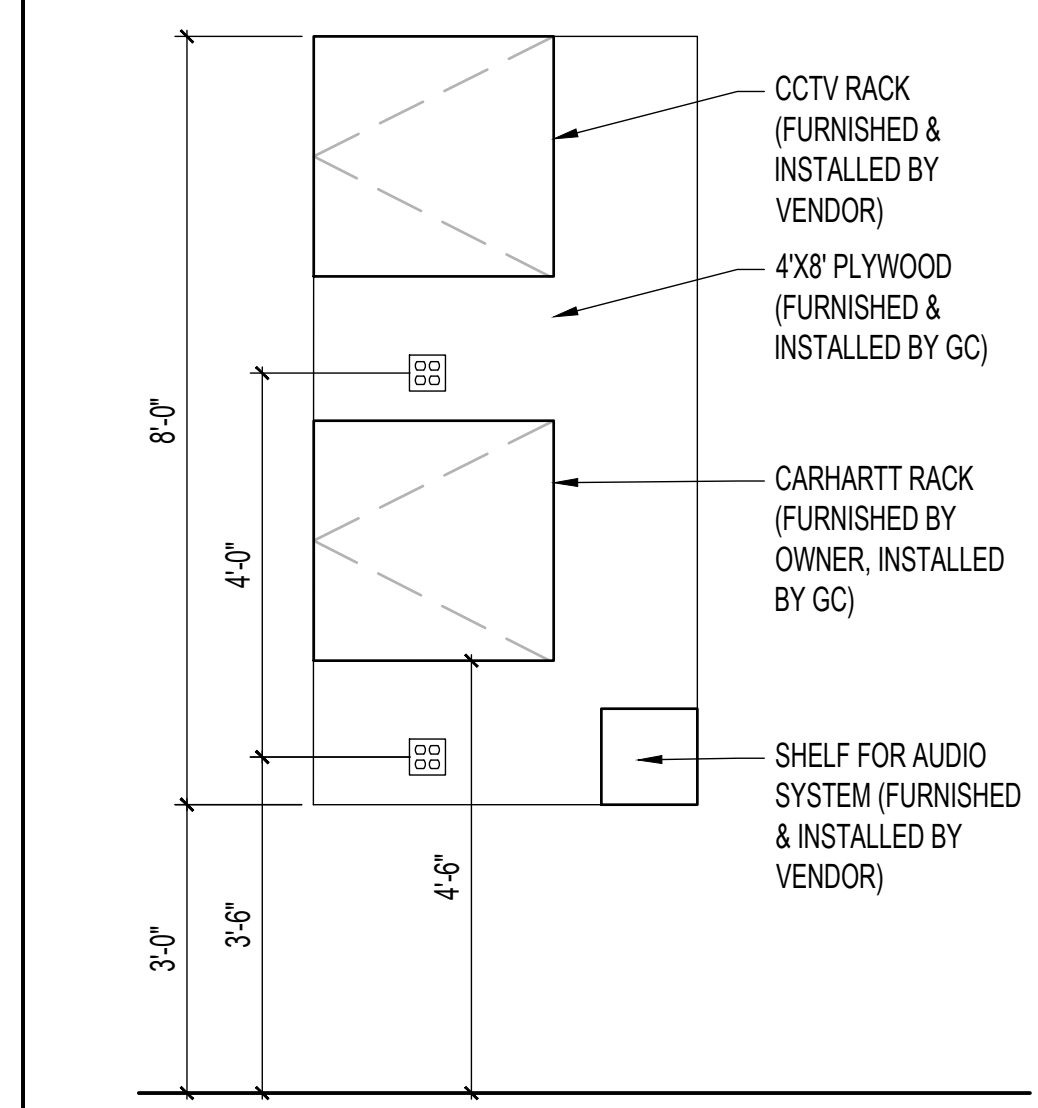
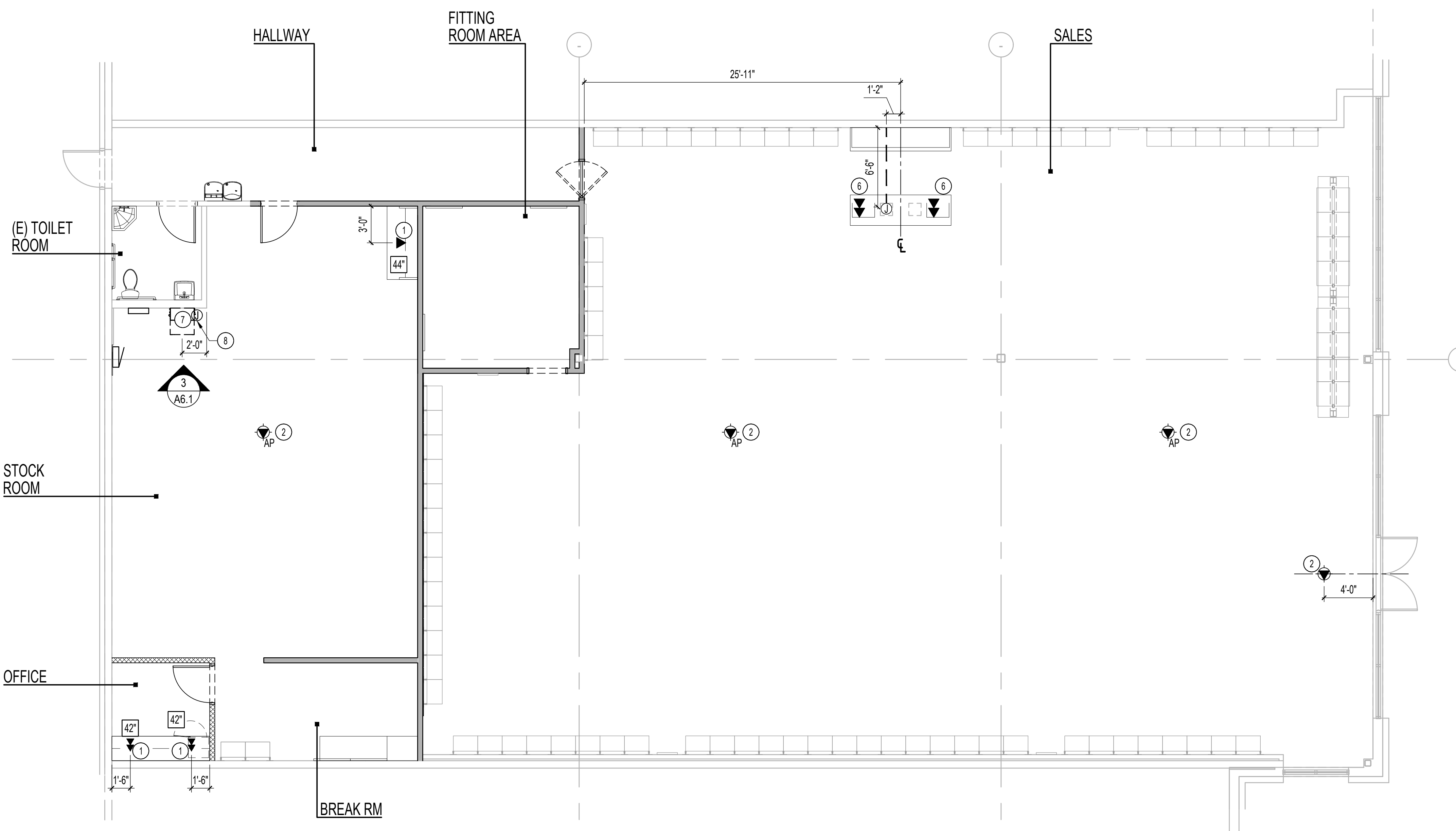
- KEY NOTES - LOW VOLTAGE #

- SYMBOL LEGEND

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3 SERVER ELEVATION SCALE 1/2"=1'-0"

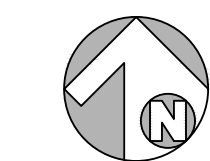
C DECK SUSPENDED J-BOXES

B LOWER CASHWRAP @ ACCESS PANEL

A INSIDE CASHWRAP

2 REFERENCE PHOTOS

1 LOW VOLTAGE WIRING PLAN



SCALE 3/16"=1'-0"

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LOW VOLTAGE PLAN

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SHEET NAME	A-6.1

1. 3/4" THICK FIRE RATED PLYWOOD MOUNTING BOARD (PAINT TO MATCH WALL)
2. MANAGERS AREA
 - 2.1. STANDARDS: CAPITOL HARDWARE - 2000-00649 - C-LINE CHROME SLOTTED STANDARDS
 - 2.2. BRACKETS: CAPITOL HARDWARE - 2001-01403 - BRACKET - 14" WITH THUMB SCREW - ZINC
 - 2.3. SHELF REST: CAPITOL HARDWARE - 2075-00001 - CENTER - FOR C-LINE BRACKETS - ZINC
 - 2.4. 14" DEEP SHELF - WHITE MELAMINE
3. HANGBAR AREA:
 - 3.1. STANDARDS: CAPITOL HARDWARE - 2000-00649 - C-LINE CHROME SLOTTED STANDARDS
 - 3.2. BRACKETS: CAPITOL HARDWARE - 2001-01603 - BRACKET - 16" WITH THUMB SCREW, ZINC
 - 3.3. HANGRAIL ADAPTER: CAPITOL HARDWARE - 2039-30078 - ADAPTER WITH SPRING CLAMP FOR 1" DIAMETER ROUND TUBE - CHROME
 - 3.4. HANGRAIL: CAPITOL HARDWARE - 645-30847 - 1" DIAMETER ROUND TUBE
 - 3.5. END CAP: CAPITOL HARDWARE - 652-30047 - END CAP FOR 1" DIAMETER ROUND TUBE - CHROME
4. PLASTIC LAMINATE COUNTERTOP - WHITE
5. INSTALL OWNER SUPPLIED CORK BOARD HORIZONTALLY, WITH BOTTOM AT 42" A.F.F.
6. NOT USED
7. ALL POWER & DATA @ DESK SHALL BE MOUNTED @ -38"
8. 2'-6" d. WHITE LAMINATED COUNTERTOP W/MATCH SUPPORTS.
9. LAMINATE SUPPORTS AT EDGES OF COUNTERTOP
10. PLASTIC LAMINATE FINISH. SHELF UNIT HUNG ON CONTINUOUS WOOD CLEARS AT WALL. REINFORCE W/ PLYWOOD BACKING AT WALL & BLOCKING IN WALL-PLASTIC LAMINATE
11. OUTLINE OF UNDER COUNTER REFRIGERATOR (20" w. x 35" h. x 22" d)
12. LOCATION OF 3" DIA. GROMMET W/ COVER (2 TYP.)
13. ADJUSTABLE SHELF ON RECESSED PILASTER STANDARDS
14. LOCATION OF VERTICAL FILING CABINET (15" W X 25" D X 29" H)
15. LOCATION OF SAFE (20" W X 20" D X 20" H)

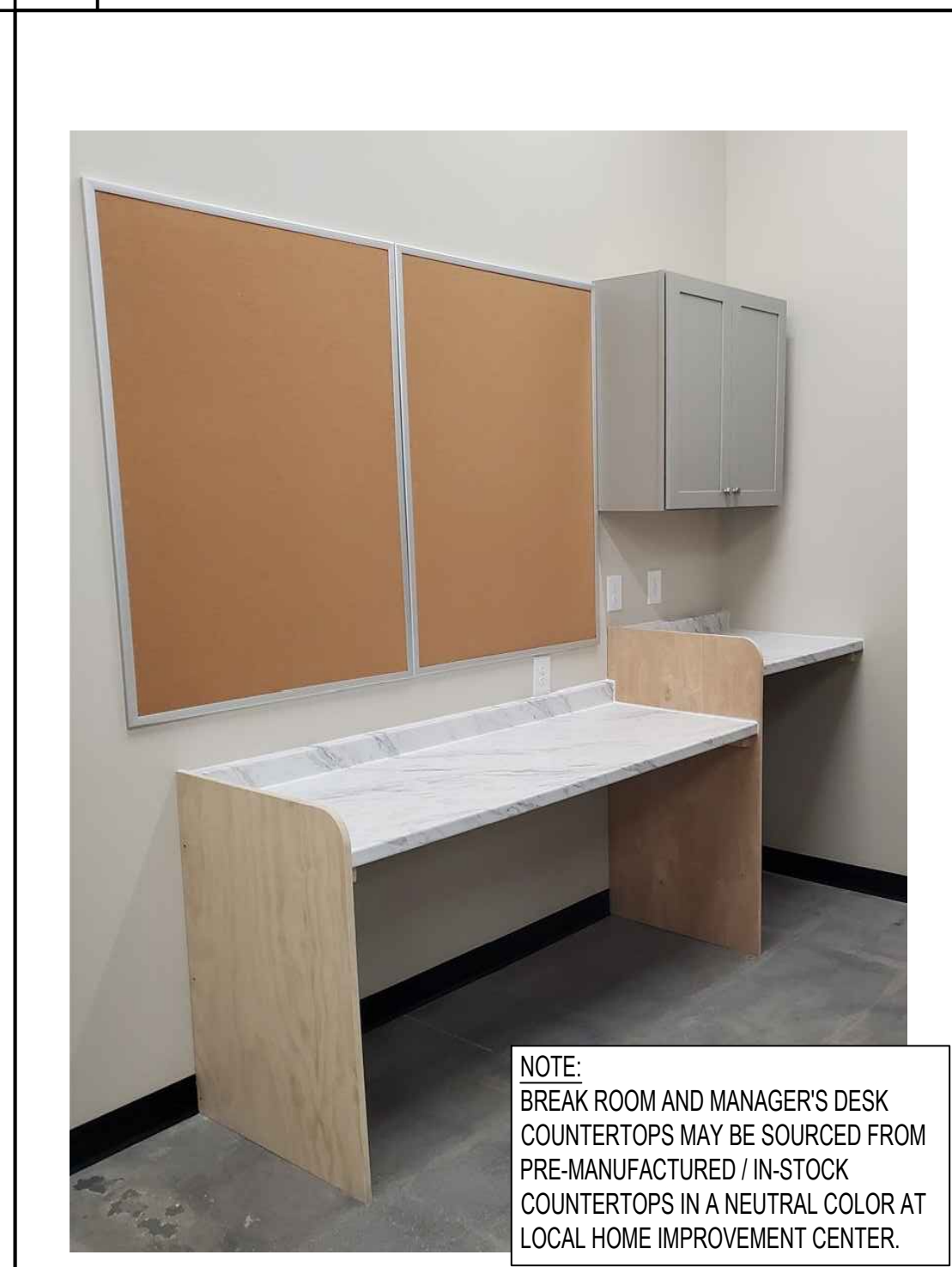
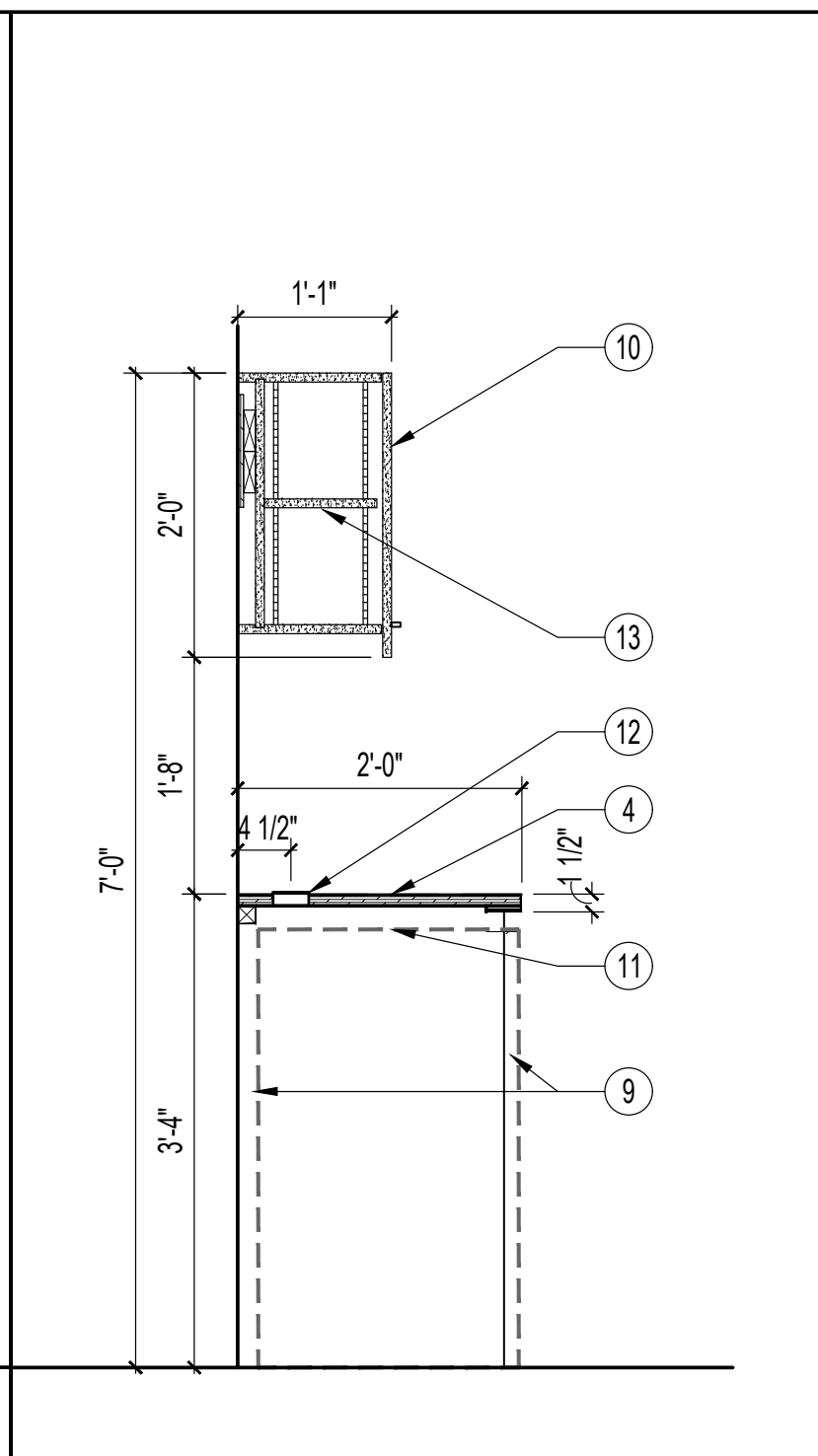
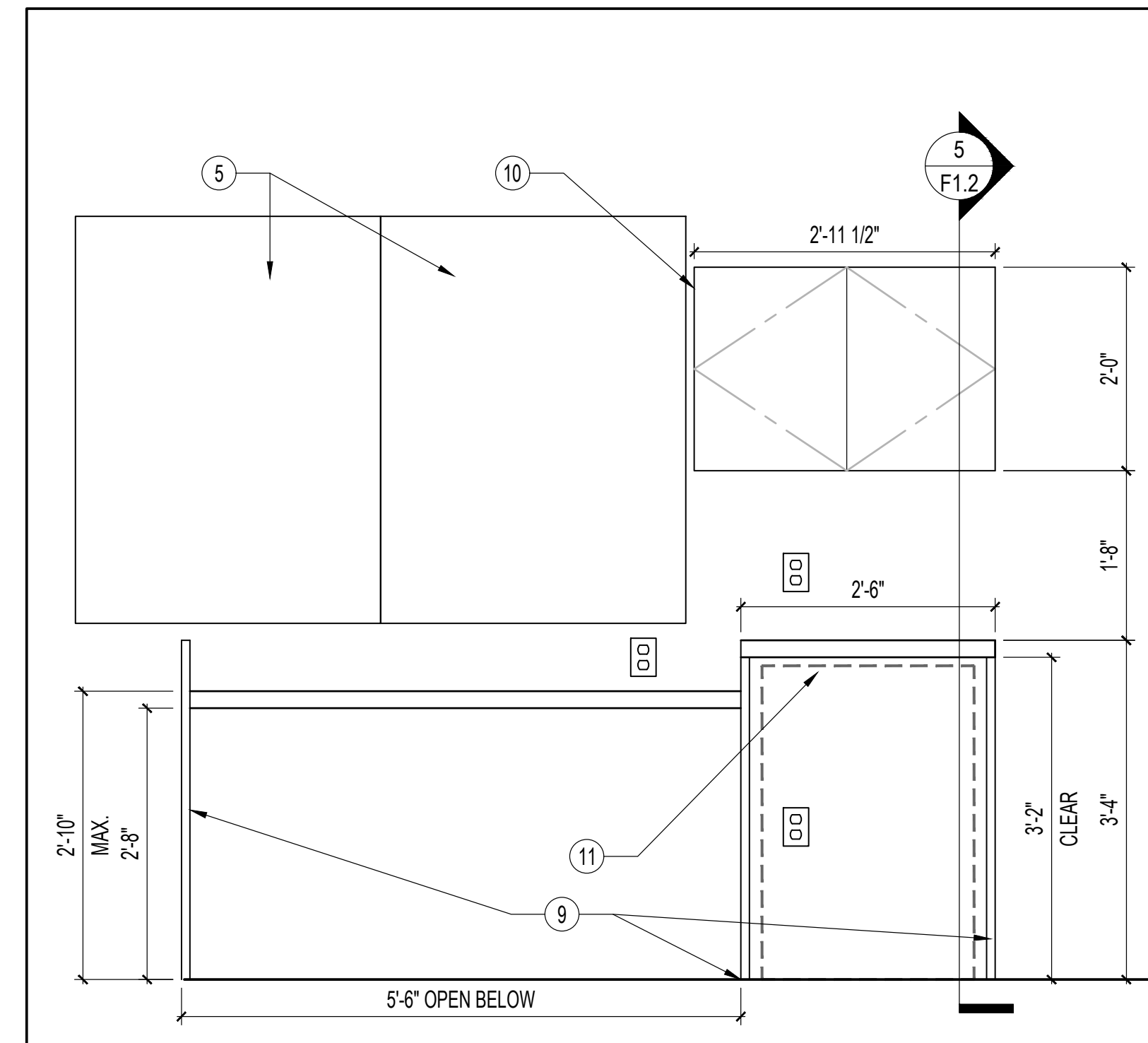


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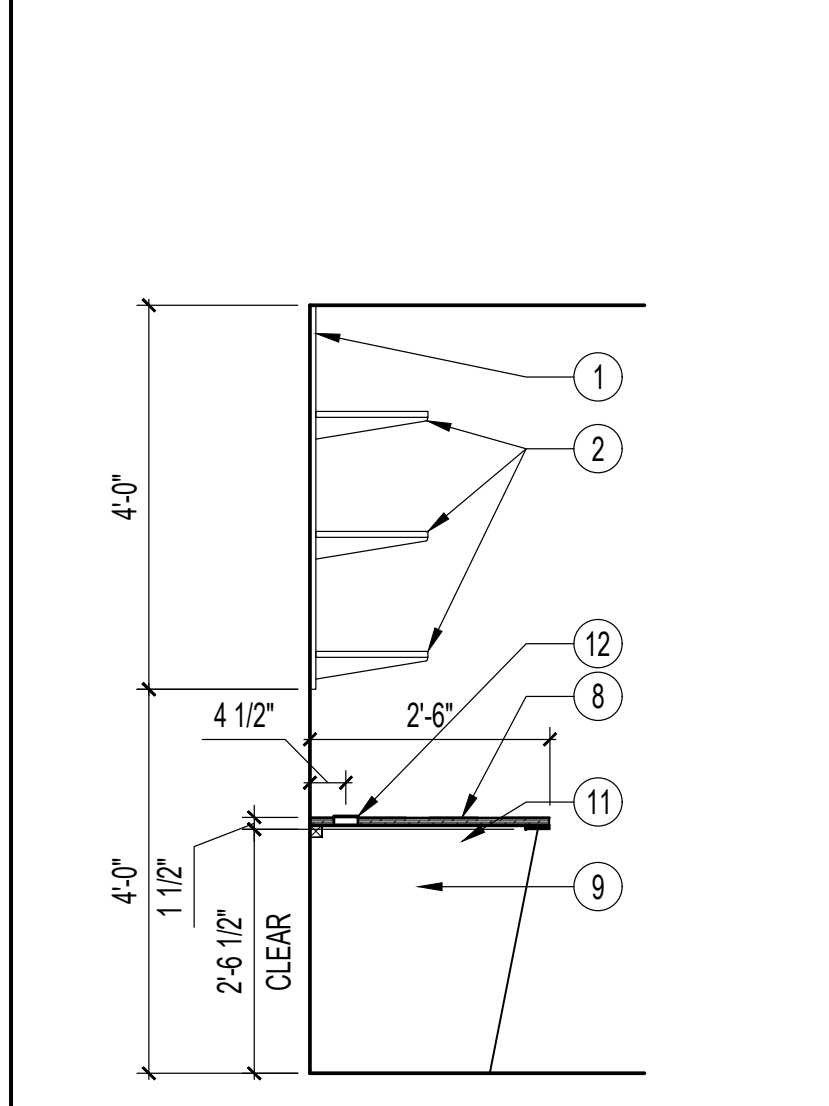
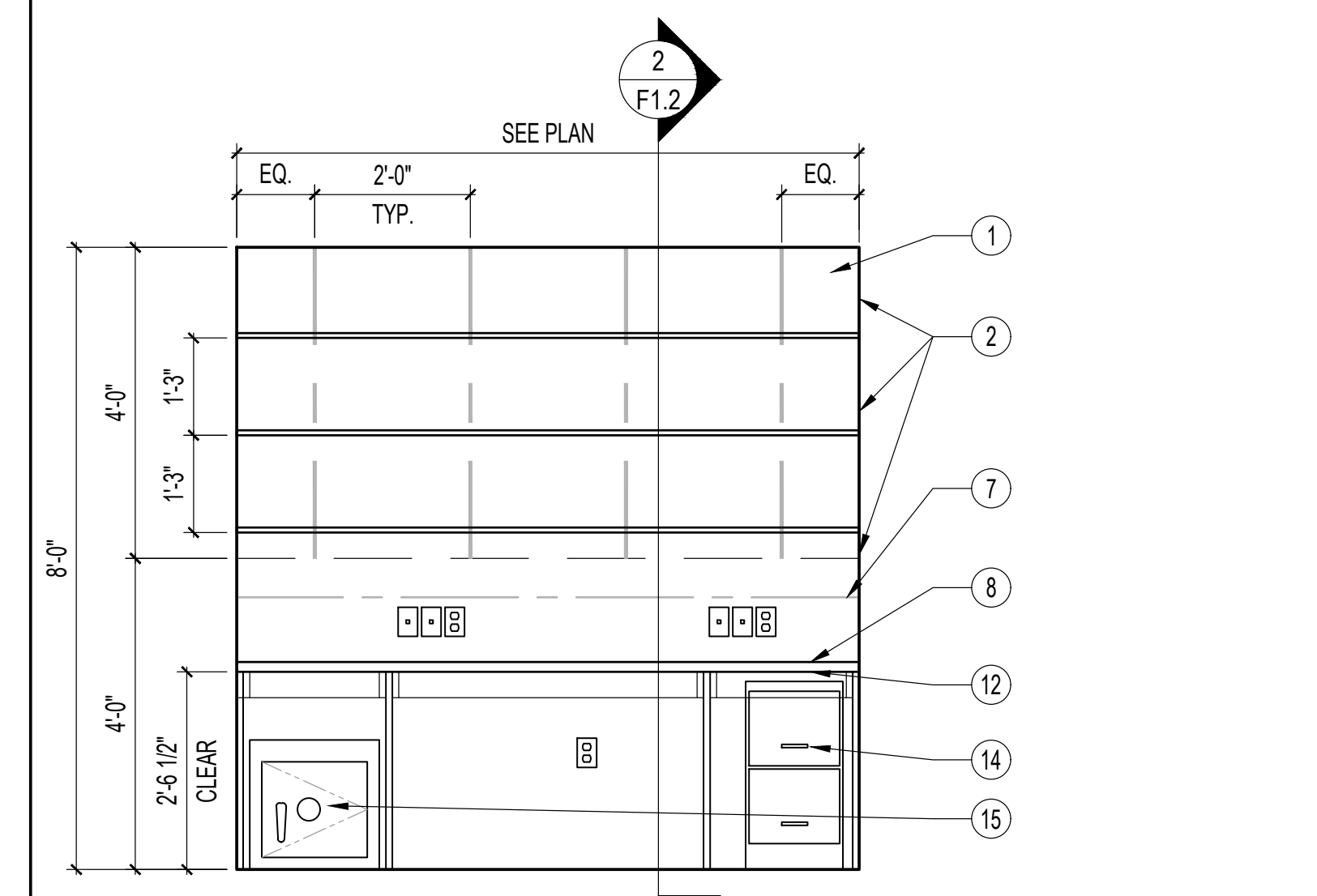
7 ELEVATION KEY NOTES



4 BREAK COUNTER ELEVATION SCALE 3/4"=1'-0"

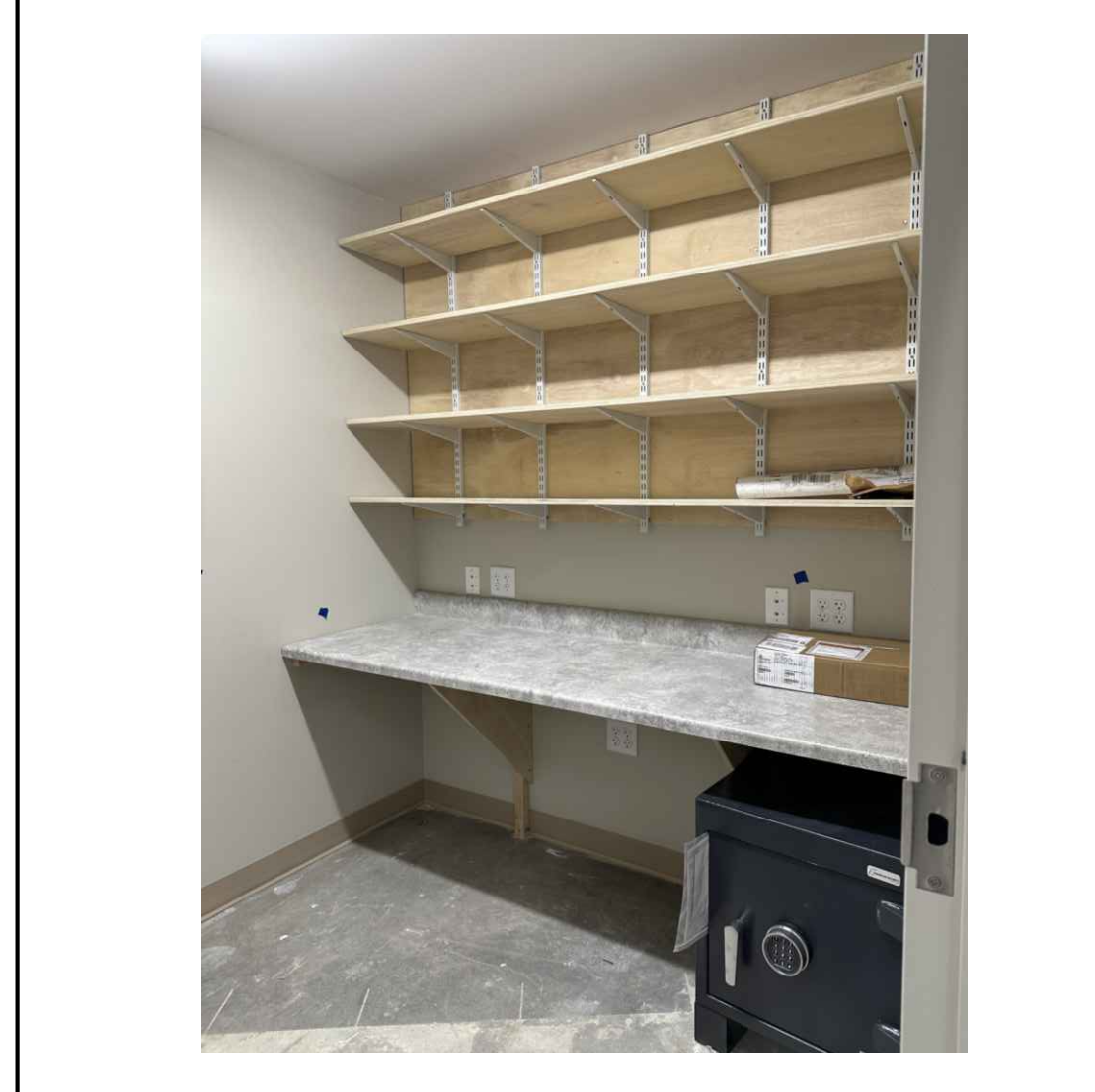
5 BREAK COUNTER SECTION SCALE 3/4"=1'-0"

6 BREAK COUNTER - REFERENCE PHOTO

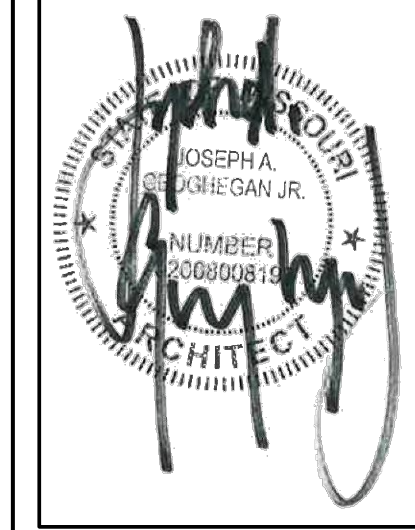


1 MANAGER'S DESK ELEVATION SCALE 1/2"=1'-0"

2 MANAGER'S DESK SECTION SCALE 1/2"=1'-0"



3 MANAGERS DESK - REFERENCE PHOTO

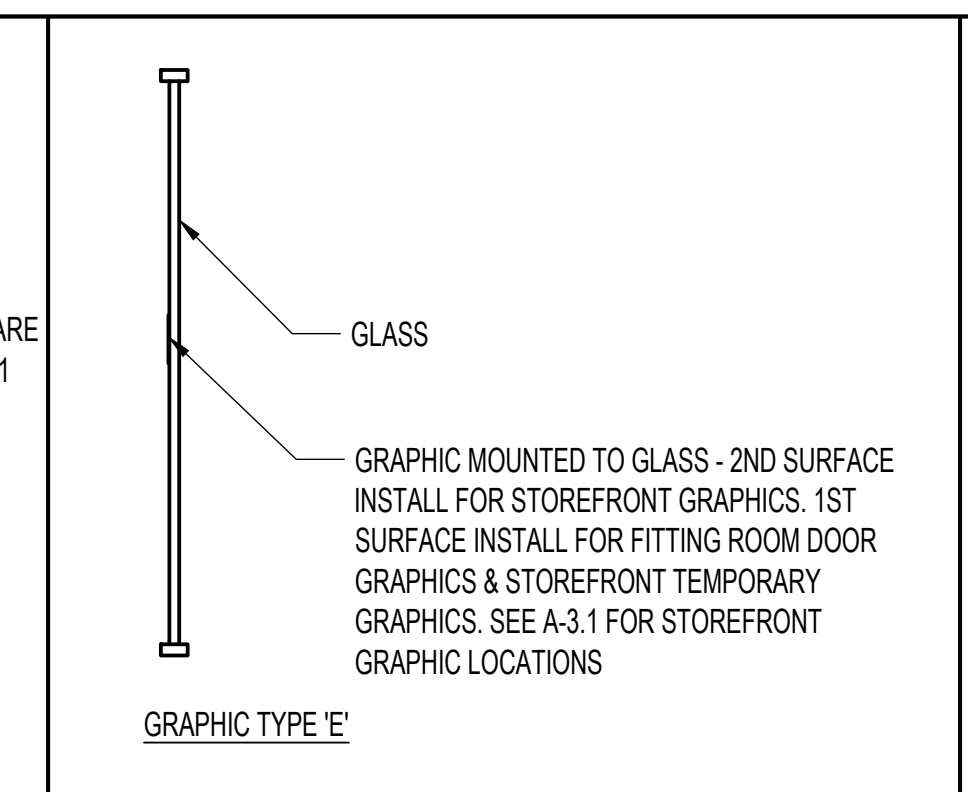
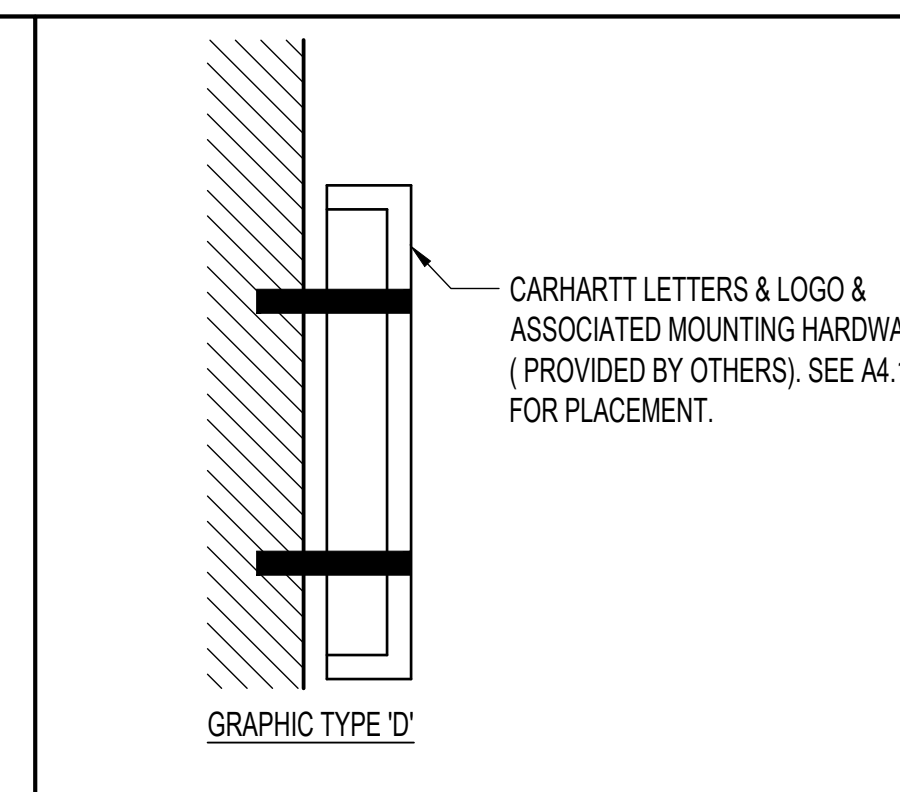
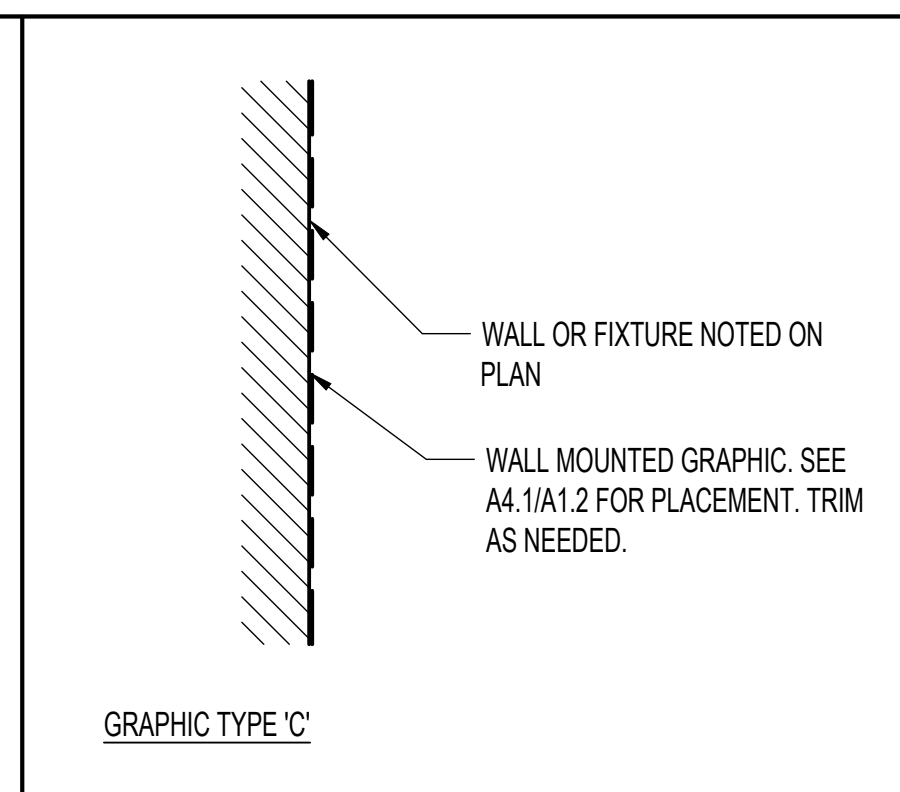
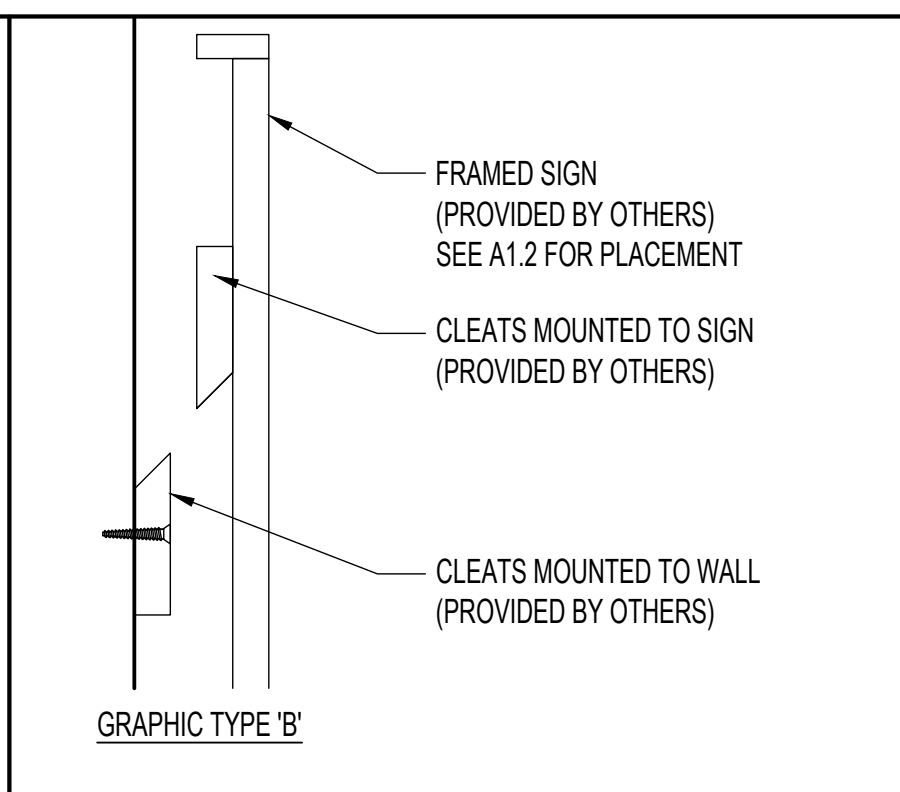
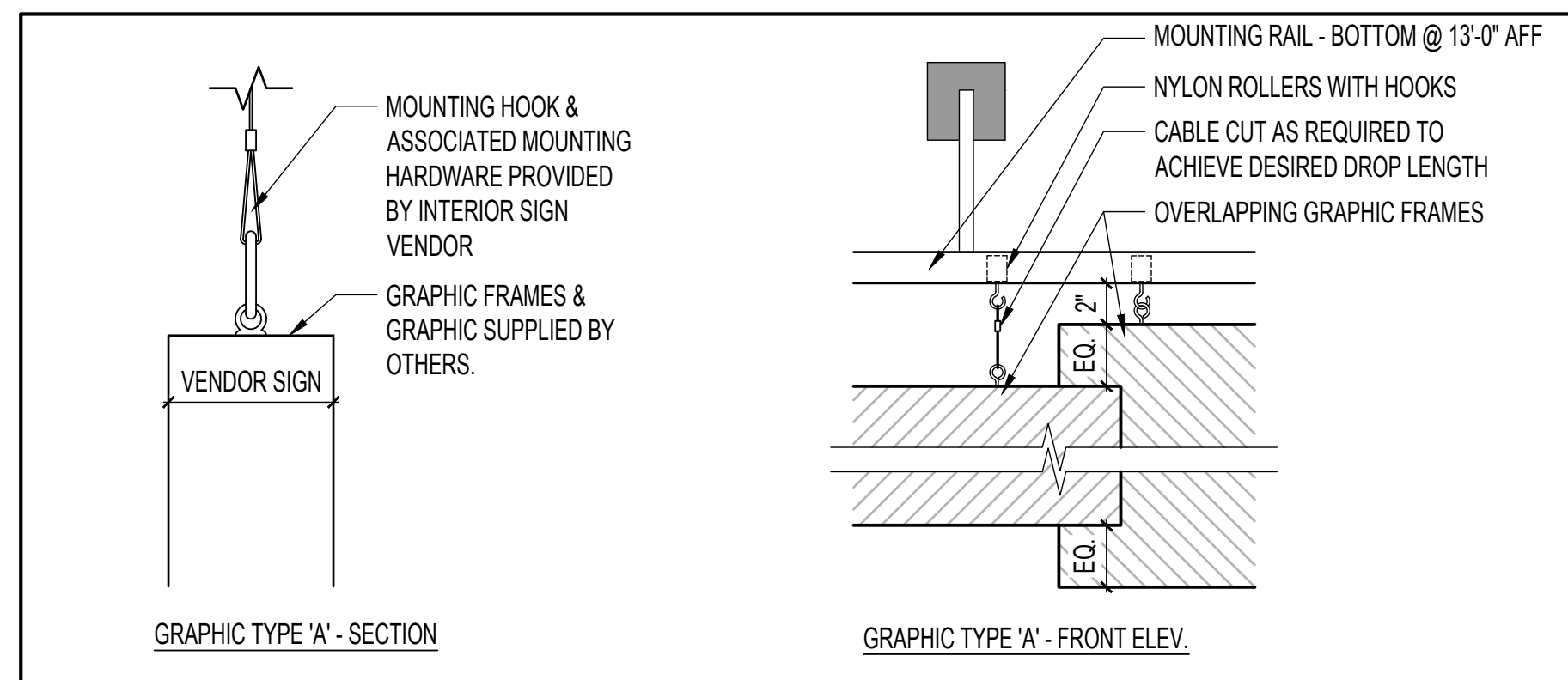


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FIXTURE DETAILS

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JOB NUMBER	25303
SHEET NAME	F-1.2



1. SUSPENDED GRAPHIC FRAME: G.C. TO ASSEMBLE & INSTALL SUSPENDED FRAME. SUSPEND FROM GRAPHIC RAIL NYLON ROLLERS ABOVE. SEE A/F2.1.
2. FRAMED SIGN: G.C. TO INSTALL FRAMED SIGNS. MOUNT WITH CLEATS. PROVIDE CONCEALED BLOCKING. SEE B/F2.1.
3. VINYL GRAPHICS ON WALL / WOOD DOOR: SEE C/F2.1
4. PROJECTED PIN MOUNTED SIGN: G.C. TO INSTALL PIN MOUNTED LETTERS & LOGO ON WC-1. SEE D/F2.1
5. VINYL GRAPHIC ON GLAZING: SEE E/F2.1.
6. BACKWRAP GRAPHICS: SEE F/F2.1
7. VINYL GRAPHIC ON GLAZING: OWNER FURNISHED, G.C. INSTALLED WITHIN THE FIRST 5 DAYS OF CONSTRUCTION. SEE E/F2.1. G.C. SHALL REMOVE VINYL AT THE END OF CONSTRUCTION.

A HANGING GRAPHIC SIGN DETAIL SCALE NONE

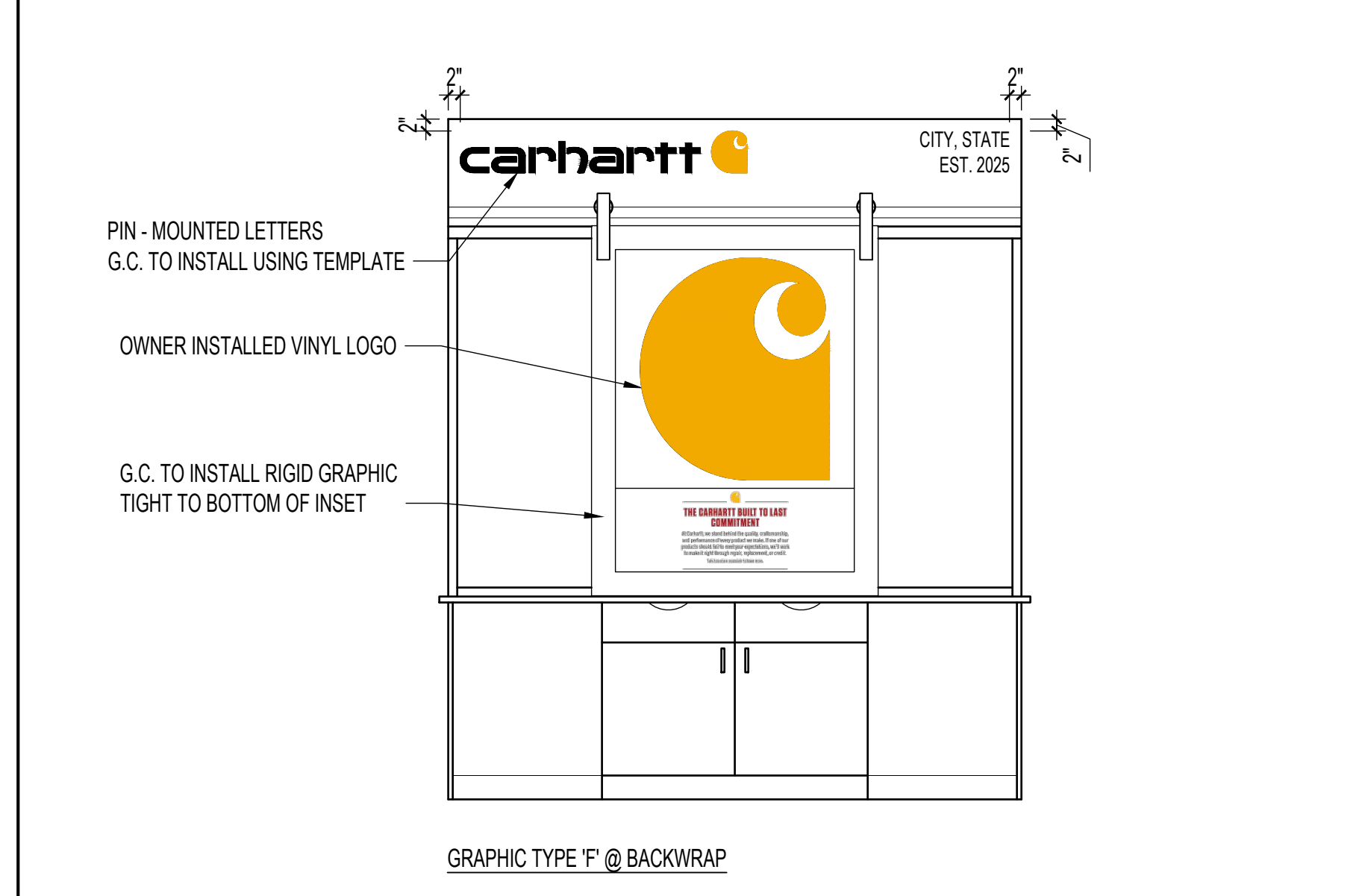
B FRAMED SIGN DETAIL SCALE NONE

C WALL MOUNTED SIGN DETAIL SCALE NONE

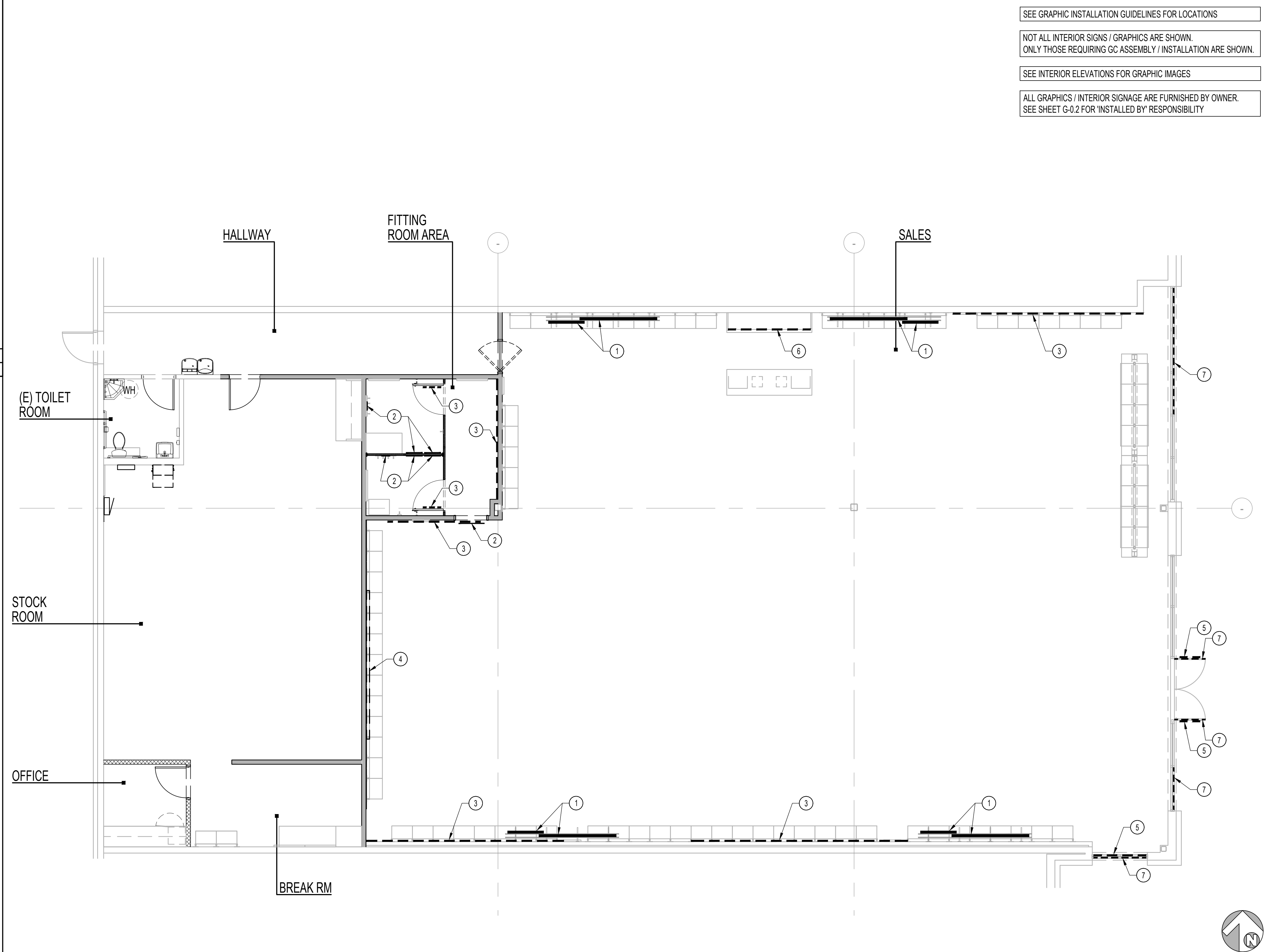
D PIN MOUNTED SIGN DETAIL SCALE NONE

E GLAZING GRAPHICS DETAIL SCALE NONE

2 KEY NOTES



F BACKWRAP GRAPHIC SIGN DETAIL SCALE 1/2" = 1'-0"



1 INTERIOR SIGNAGE & GRAPHICS PLAN SCALE 3/16" = 1'-0"

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SEE GRAPHIC INSTALLATION GUIDELINES FOR LOCATIONS

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SEE INTERIOR ELEVATIONS FOR GRAPHIC IMAGES

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JOSEPH A. SCHILLER JR.
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INTERIOR SIGNAGE & GRAPHIC PLAN & DETAILS

DRAWN BY
SLS

CHECKED BY
SL

JOB NUMBER
25303

SHEET NAME
F-2.1

GENERAL LIGHTING PLAN NOTES

- A. EXIT SIGN CONNECTIONS: CONNECT ALL EXIT SIGNAGE AHEAD OF ANY SWITCHING.
- B. INDOOR EGRESS LIGHTING: CONNECT ALL INDOOR EGRESS LIGHTING, DESIGNATED "EL", AHEAD OF ANY SWITCHING, UNLESS CONTROL METHODS ARE INDICATED OTHERWISE FOR A GIVEN AREA.
- C. BATTERY BACKUP DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE UL 924 LISTED BATTERY DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.
- D. TRANSFER/RELAY-CONTROL DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE TRANSFER/RELAY-CONTROL DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS, TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.

KEYED NOTES

L1	LOCATION OF MASTER SWITCHBANK. SEE LIGHTING DETAILS FOR MORE INFORMATION.
L2	PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO OVERRIDE SALES AREA GENERAL LIGHTING FOR AFTER-HOURS USE. MOUNT OCCUPANCY SENSOR ON CEILING WITH LIGHT FIXTURES IN THE SAME AREA. CENTER BETWEEN LIGHT FIXTURE, TYP. SEE LIGHTING CONTROL DESIGN INTENT DETAIL ON SHEET E-101 FOR MORE INFORMATION.
L4	SEE THE SWITCH BANK DETAIL, WHERE CIRCUIT IS SHOWN ON THE SWITCHBANK DETAIL, THE INTENT IS FOR ALL LIGHTING ON THAT CIRCUIT TO BE CONTROLLED BY THE SWITCH VIA A CONTACTOR CONTROLLED BY THE TIMECLOCK, EXCEPT FOR EMERGENCY AND EXIT LIGHTING, WHICH SHALL BE CONNECTED TO THE CIRCUIT AHEAD OF ALL SWITCHING.

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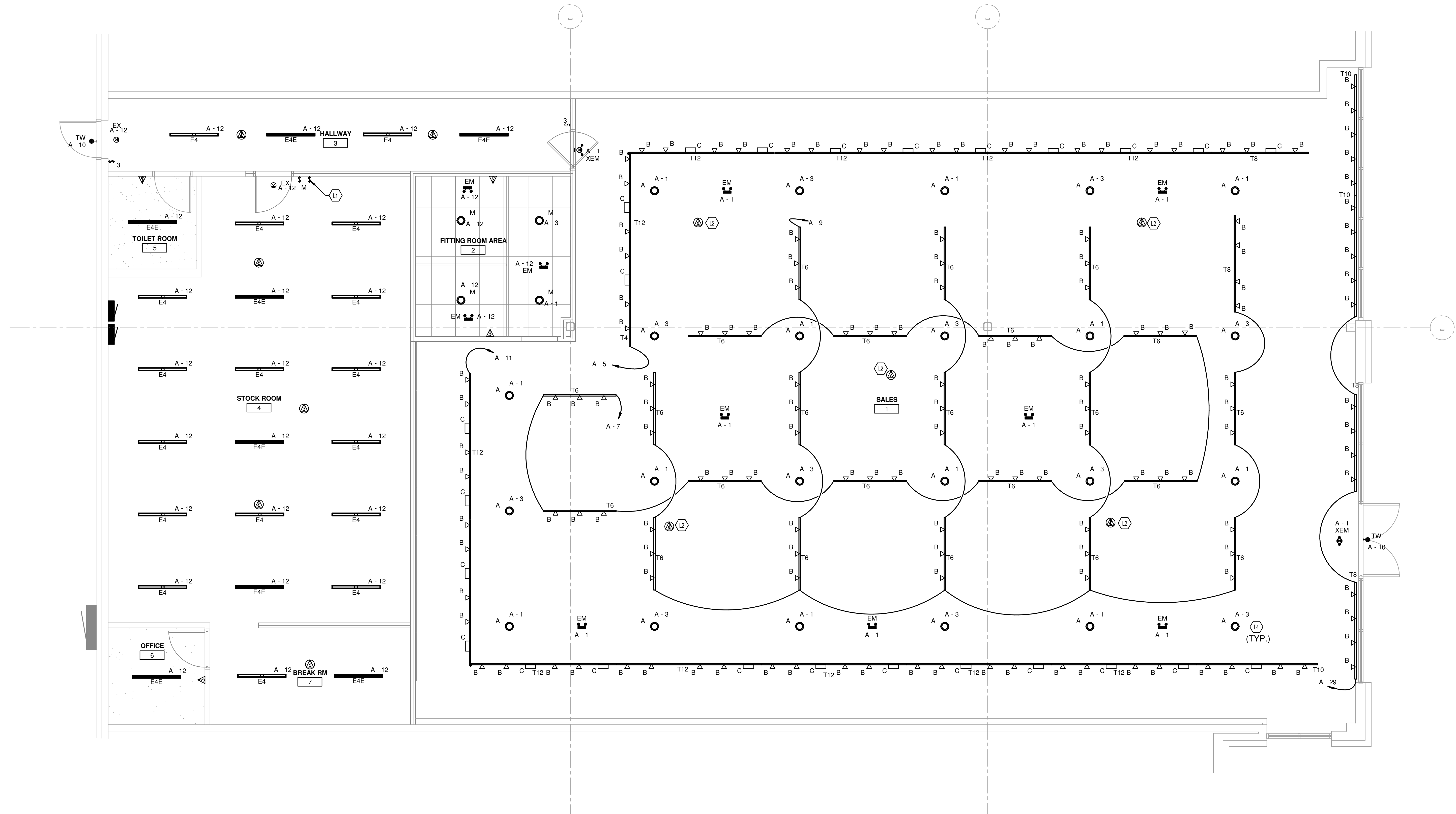
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ELECTRIC LIGHTING PLAN

DRAWN BY	DJR
CHECKED BY	MPR
JOB NUMBER	25303
SHEET NAME	E-100



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

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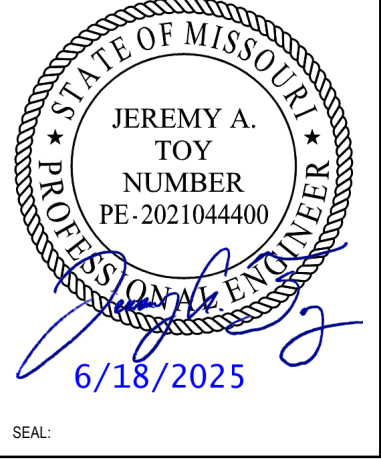
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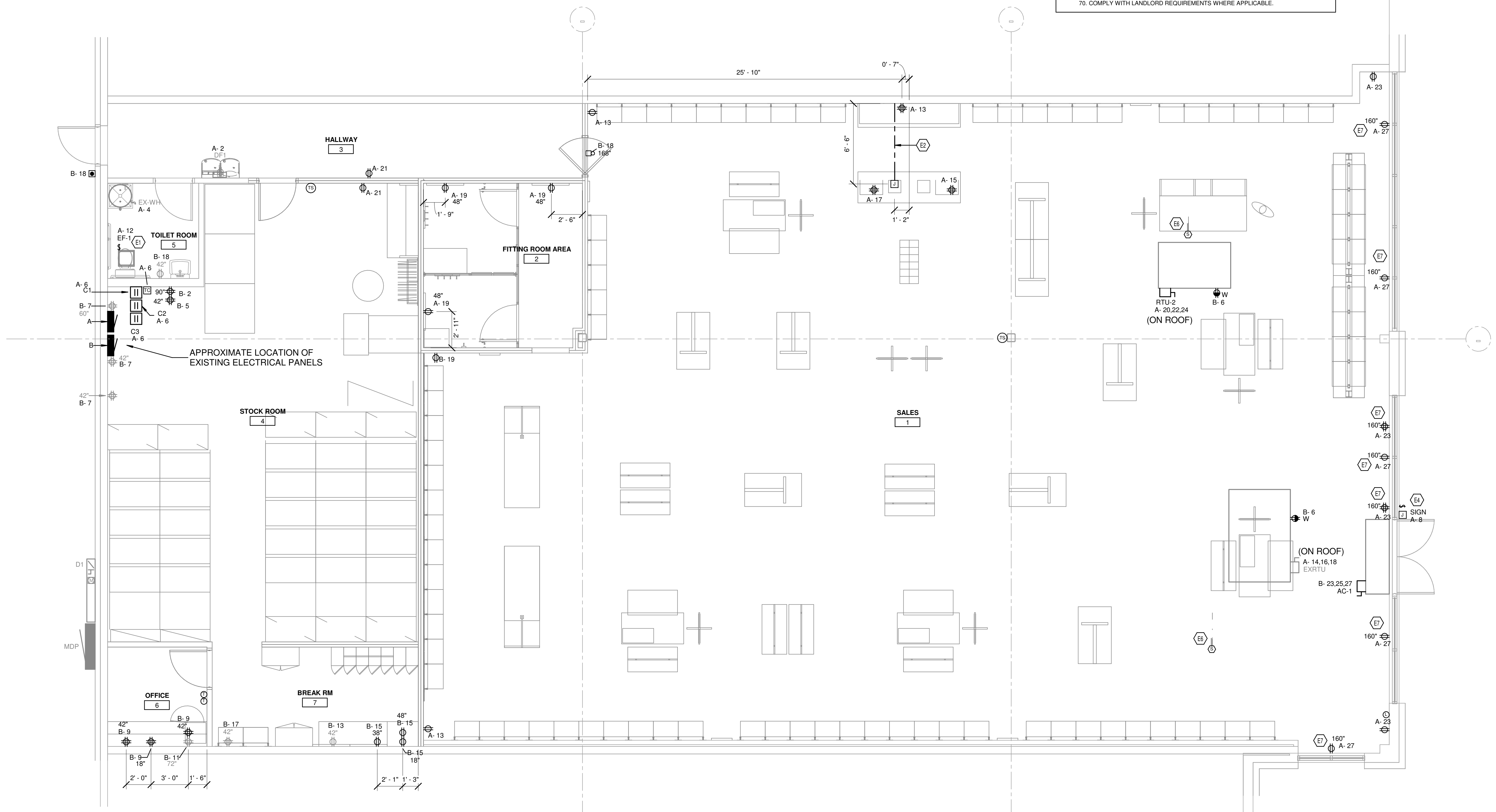
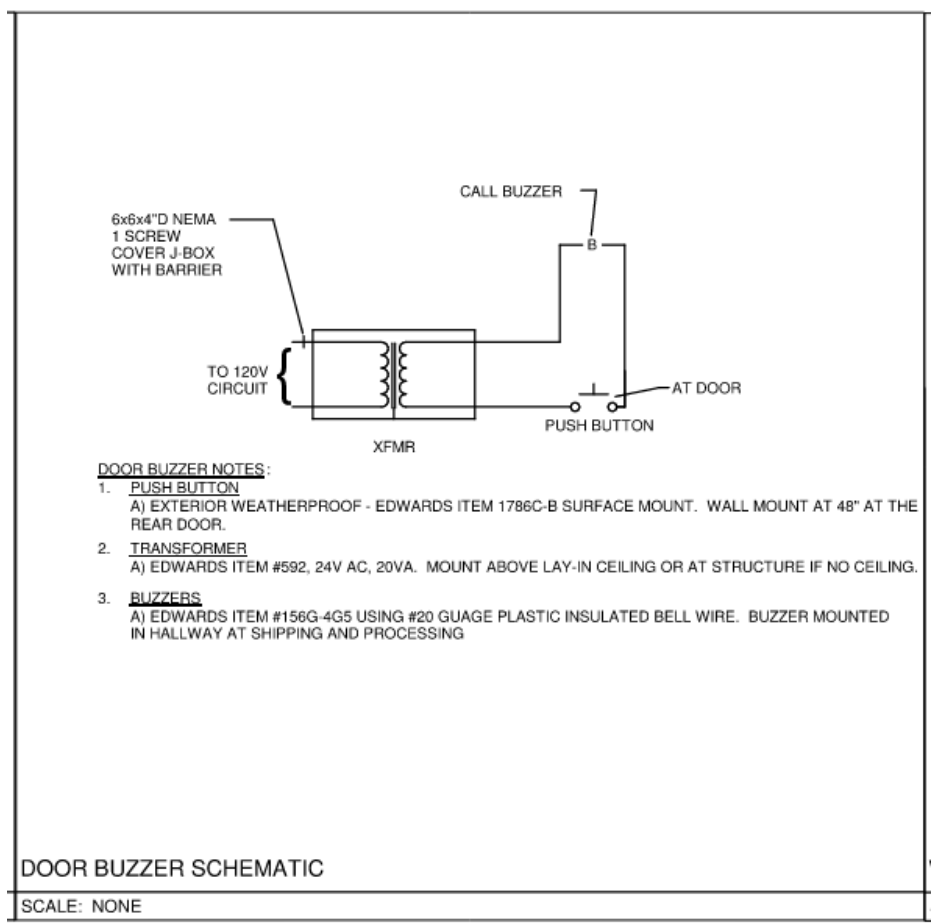
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ELECTRIC POWER PLAN

DRAWN BY	DJR
CHECKED BY	MPR
JOB NUMBER	25303
SHEET NAME	E-200

- ### KEYED NOTES
- E1 INTERLOCK EXHAUST FAN CONTROLS WITH RESTROOM LIGHTING CONTROLS.
 - E2 PROVIDE (2) 1" CONDUITS FOR POWER AND (1) 1-1/2" CONDUIT FOR DATA. STUB-UP IN BACK WRAP. COORDINATE CORING AND CONDUIT ROUTING WITH LANDLORD PRIOR TO BID. COORDINATE STUB UP LOCATION WITH MILLWORK VENDOR PRIOR TO ROUGH-IN.
 - E4 PROVIDE POWER AND CONTROL WIRING, CONNECTIONS, ETC. FOR SIGNAGE. COORDINATE EXACT LOCATION, HEIGHT, AND ELECTRICAL REQUIREMENTS WITH SIGNAGE INSTALLER AND PROVIDE ELECTRICAL WORK ACCORDINGLY. WHERE THE SIGN IS NOT PROVIDED WITH AN INTEGRAL DISCONNECTING MEANS, PROVIDE FLUSH-MOUNTED, LOCAL DISCONNECT SWITCH INSTALLED IN A CONCEALED, BUT ACCESSIBLE, LOCATION WITHIN SITE OF THE SIGN. WHERE THIS IS NOT POSSIBLE, PROVIDE LOCK-OUT, TAG-OUT BREAKER IN SOURCE PANELBOARD IN LIEU OF LOCAL DISCONNECT SWITCH AND A LABEL INSIDE THE SIGN ENCLOSURE IDENTIFYING THE BREAKER'S LOCATION PER NEC 600.6(A)(2).
 - E6 SMOKE DETECTOR INDICATED IS FOR SHUTDOWN OF ASSOCIATED MECHANICAL EQUIPMENT (TAGGED ADJACENT TO THE DETECTOR). QUANTITY AND TYPE SHOWN IS SCHEMATIC ONLY. PROVIDE QUANTITIES AND TYPES AS NEEDED FOR THE SPECIFIC MEANS AND METHODS USED. MECHANICAL CONTRACTOR SHALL INSTALL ALL DETECTORS THAT ARE INSIDE OF DUCTWORK. PROVIDE ALL RELATED WORK SO THAT WHEN SMOKE IS DETECTED THE ASSOCIATED MECHANICAL EQUIPMENT SHUTS DOWN UNTIL ALARM IS CLEARED AT THE FIRE ALARM PANEL. REFER TO FIRE ALARM SPECIFICATIONS FOR MORE INFORMATION.
 - E7 PROVIDE RECEPTACLE WITH BLACK FINISH.

- ### GENERAL POWER PLAN NOTES
- A. EQUIPMENT COORDINATION SCHEDULES: REFER TO EQUIPMENT COORDINATION SCHEDULES FOR REQUIREMENTS ASSOCIATED WITH EQUIPMENT CIRCUITING, CONNECTIONS, ANCILLARY DEVICES AND EQUIPMENT, ETC. COORDINATE LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT WITH RESPECTIVE EQUIPMENT SUPPLIERS AND INSTALLERS PRIOR TO ORDERING ANY RELATED MATERIALS OR COMMENCING WITH ANY RELATED ROUGH-IN WORK.
 - B. TECHNOLOGY SYSTEMS: PROVIDE RACEWAY AND PATHWAY SYSTEMS FOR ALL TECHNOLOGY WORK. INCLUDE OUTLET BOXES, CONDUITS, RACEWAYS, J-HOOKS, CABLE TRAY, ETC. AS REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS. COORDINATE ALL RELATED WORK (INCLUDING ASSOCIATED POWER) WITH OWNER (INCLUDING OWNER'S PROJECT MANAGER), FIELD CONDITIONS, FURNITURE INSTALLER(S), TECHNOLOGY INSTALLER(S) AND WORK OF OTHER TRADES AND SUPPLIERS/INSTALLERS AS APPLICABLE. TERMINATE ALL CONDUITS FROM OUTLET BOXES TO NEAREST ACCESSIBLE CEILING CAVITY, OR TO OVERHEAD STRUCTURAL SPACE FOR AREAS WITH NO CEILINGS. PROVIDE CONDUITS WITH SWEEP BENDS, PULL STRINGS, PLASTIC BUSHINGS AND IDENTIFICATION AT OVERHEAD ENDS. PROVIDE BLANK WALL PLATES TO MATCH WIRING DEVICE WALL PLATES.
 - C. STOREFRONT WINDOWS: INSTALL RECEPTACLE(S) INDICATED ABOVE STOREFRONT WINDOWS WITHIN 18 INCHES OF THE TOP OF STOREFRONT WINDOWS, AND INSTALL COMPLIANT WITH NEC, INCLUDING ARTICLE 210.62.
 - D. TRIM AND DOOR FINISHES: PROVIDE FACTORY-PAINTED OR FIELD-PAINTED TRIMS AND DOORS TO MATCH WALL FINISH COLOR FOR ALL PANELBOARDS AND SIMILAR EQUIPMENT THAT ARE INSTALLED RECESSED IN FINISHED WALLS. IF FIELD-PAINTED, PAINT ALL SIDES AND EDGES WITH TWO COATS OF PAINT BEFORE INSTALLATION, AND LET DRY BEFORE INSTALLING THEM. ENSURE THAT NO COMPONENTS ARE (DOORS, LATCHES, SCREWS, ETC.) ARE "PAINTED SHUT".
 - E. SIGNAGE: COORDINATE ALL SIGNAGE REQUIREMENTS WITH OWNER (INCLUDING OWNER'S PROJECT MANAGER), SIGNAGE SUPPLIERS AND INSTALLERS, AND ARCHITECT TO DETERMINE SPECIFICS REGARDING LOCATIONS, POWER, CONTROL, AND OTHER PERTINENT INFORMATION. PROVIDE POWER (ON DEDICATED CIRCUIT(S)) FOR SIGNAGE REQUIRING POWER CONNECTIONS. PROVIDE PHOTOCELL AND TIME-BASED CONTROL, CONFIGURED AS DIRECTED BY OWNER. PROVIDE ALL ELECTRICAL WORK, INCLUDING DISCONNECTING MEANS, COMPLIANT WITH ARTICLE 600 OF NFPA 70. COMPLY WITH LANDLORD REQUIREMENTS WHERE APPLICABLE.



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

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STATE OF MISSOURI
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 NUMBER PE-2021044400
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ELECTRIC DISCONNECT SCHEDULE

NOTES:
 A. WIRES: THE NUMBER OF WIRES INDICATED INCLUDES A GROUNDED (NEUTRAL) CONDUCTOR UNLESS IT WAS VERIFIED DURING DESIGN THAT ONE IS NOT REQUIRED. THE GROUNDED CONDUCTOR MAY BE OMITTED IF NOT REQUIRED BY THE EQUIPMENT BEING SERVED.
 B. ENCLOSURE: WHERE FIELD IS BLANK, PROVIDE NEMA 1 ENCLOSURE FOR INDOOR INSTALLATIONS, NEMA 3R ENCLOSURE FOR OUTDOOR INSTALLATIONS OR INDOOR INSTALLATIONS SUBJECT TO MOISTURE, AND NEMA 4X FOR ALL KITCHEN AND WASH DOWN AREAS.
 C. SHORT CIRCUIT RATING: WHERE FIELD IS BLANK, PROVIDE A SHORT CIRCUIT RATING THAT EXCEEDS THE LISTED FAULT CURRENT.

EQUIPMENT	SPACE NUMBER	SPACE NAME	SUPPLY FROM	CIRCUIT NUMBER	VOLTAGE	PHASE	WIRES	TRIP RATING (A)	FRAME RATING (A)	DEMAND (A)	OCB TYPE	FEEDER OR BRANCH CIRCUIT	ULSE	GEC	ENCLOSURE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	COMMENTS
Disconnect - Toggle Switch																		
EF-1	5	TOILET ROOM	A	12	120 V	1	2	15	30	0 A		(2) #12 AWG CU, (1) #12 AWG CU GND. IN 3/4" CONDUIT 60C RATED				6879		
EX-WH	5	TOILET ROOM	A	4	120 V	1	2	20	30	14 A		(2) #12 AWG CU, (1) #12 AWG CU GND. IN 3/4" CONDUIT 60C RATED				3962		
Fused Switch																		
D1			WW	1	208 V	3	4	200	200	199 A	FUSED	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			NEMA 3R	42700	EXISTING	
Safety Switch																		
AC-1	1	SALES	B	23,25,27	208 V	3	4	60	60	43 A		(4) #8 AWG CU, (1) #10 AWG CU GND. IN 1-1/4" CONDUIT 60C RATED				3175		
EXRTU	1	SALES	A	14,16,18	208 V	3	4	80	100	58 A		(4) #8 AWG CU, (1) #10 AWG CU GND. IN 1-1/4" CONDUIT 60C RATED				3989		
RTU-2	1	SALES	A	20,22,24	208 V	3	4	40	60	26 A		(4) #8 AWG CU, (1) #10 AWG CU GND. IN 1" CONDUIT 60C RATED				1915		

HVAC ELECTRICAL COORDINATION SCHEDULE

ABBREVIATIONS	CONTRACTOR TYPE	MOTOR CONTROL TYPE	CONTROL TYPE	SHORT CIRCUIT RATING
DC LOCAL DISCONNECT	EC ELECTRICAL CONTRACTOR	CS COMBINATION STARTER	TC TIMECLOCK	WHERE SHORT CIRCUIT RATING CODE REQUIRED VALUE INDICATES "YES" APPLICABLE EQUIPMENTS SHORT CIRCUIT RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT VALUE INDICATED.
MC MOTOR CONTROL (POWER)	EX EXISTING	MCC MOTOR CONTROL STARTER	CPT CONTROL POWER TRANSFORMER	
SD DUCT SMOKE DETECTOR	FC FIRE PROTECTION CONTRACTOR	MCS MAGNETIC STARTER OR CONTACT	BAS BUILDING AUTOMATION SYSTEM	
CN CONTROLS	GC GENERAL CONTRACTOR	MS MANUAL STARTER	LOW LOW VOLTAGE CONTROLS	
TS TOGGLE SWITCH	HC HVAC CONTRACTOR	VFD VARIABLE FREQUENCY DRIVE	LINE LINE VOLTAGE CONTROLS	
C/B H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD	MFR MANUFACTURER	MSR MANUAL STARTER W/ CONTROL RELAY	RLINE REVERSE ACTING LINE VOLTAGE THERMOSTAT	
FUSE FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)	PC PLUMBING CONTRACTOR	OV OVERCURRENT PROTECTION	MAN MANUAL	
FLA OPERATING FULL LOAD AMPS	OR OWNER OR OTHERS		FA FIRE ALARM	
MCA MINIMUM CIRCUIT AMPACITY			CO CARBON MONOXIDE SENSOR	
CP CORD AND PLUG CONNECTION			INT INTEGRAL TO EQUIPMENT	
[BLANK] HARD WIRED (WHEN INDICATED FOR DC TYPE)			AREA AREA SMOKE DETECTOR	
			DUCT DUCT SMOKE DETECTOR	
			ALARM SHUTDOWN EQUIP ON GENERAL FIRE ALARM	
			FLOW SHUTDOWN ON SPRINKLER FLOW	
			ANSUL SHUTDOWN ON ANSUL ACTIVATION	

CONNECTION MARK	DESCRIPTION	VOLTAGE	PHASE	EMERGENCY	HP	WATTS	HTG KW	FLA	MCA	OCB	FED FROM	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE	FA SHUTDOWN	SHORT CIRCUIT RATING CODE	AVAILABLE FAULT CURRENT
AC-1	AIR CURTAIN W/ELECTRIC HEAT	208 V	3	NO	0.4		8		47.3	60		EC	EC	EC	EC	MG	MFR	MFR	MFR	INT	MFR	MFR	MFR	NONE	No	3175
EF-1	HVAC EXHAUST FAN	120 V	1	NO				0.29	0.4	15		EC	EC	EC	ECM	MFR	MFR	MFR	MAN	EC	EC	EC	NONE	No	8878	
EXRTU	PACKAGED ROOFTOP UNIT, GAS HEAT	208 V	3	NO					84	80		EC	EC	EC	ECM	MFR	MFR	MFR	LOW	HC	HC	HC	HC	DUCT	Yes	3989
RTU-2	PACKAGED ROOFTOP UNIT, GAS HEAT	208 V	3	NO					29	40		EC	EC	EC	ECM	MFR	MFR	MFR	LOW	HC	HC	HC	HC	DUCT	Yes	1915

ELECTRIC PANELBOARD AND SWITCHBOARD SCHEDULE

TYPICAL EQUIPMENT NAME NOMENCLATURE:
 1 - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY)
 2 - DESCRIPTION (H - 480V/277V, L - 208V/120V)
 3 - FLOOR / LEVEL
 4 - SEQUENCE

ALL ALUMINUM BUSSING SHALL BE TIN-PLATED. ALL COPPER BUSSING SHALL BE EITHER TIN-PLATED OR SILVER-PLATED

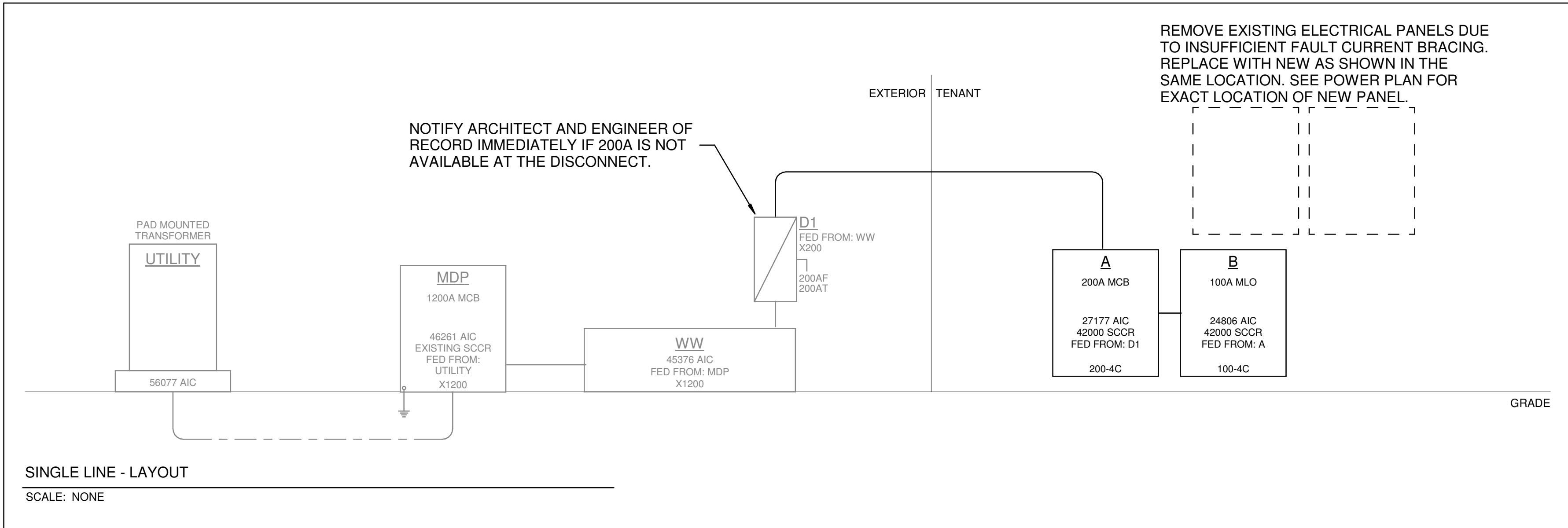
EQUIPMENT	PHASE	SPACE NUMBER	SPACE NAME	SUPPLY FROM	POWER BRANCH	TYPE	VOLTAGE	PHASE	WIRES	DEMAND (KVA)	DEMAND (A)	MAINS RATING (A)	MAINS FRAME RATING (A)	MAINS TYPE	BUSSING (PLATED)	MOUNTING	FEEDER	LUSS TYPE	SPD	ULSE	GEC	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES	
A	New Construction	4	STOCK ROOM	D1		Branch Panelboard	208	3	4	71692 VA	199 A	200	200	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	(4) #30 AWG CU, (1) #6 AWG CU GND. IN 2" CONDUIT 75C RATED					NEMA 1	27177	42000		
B	New Construction	4	STOCK ROOM	A		Branch Panelboard	208	3	4	24290 VA	67 A	100	100	MAIN LUGS ONLY	COPPER OR ALUMINUM	SURFACE	(4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED					NEMA 1	24806	42000		
MDP	Existing			UTILITY		Distribution Panelboard	208	3	4	71692 VA	199 A	1200	1200	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE				Yes	Yes	NEMA 3R	46261	EXISTING	

ELECTRIC FEEDER SCHEDULE

NOTES:
 ALL CONDUIT SIZES INDICATED ARE MINIMUM SIZES. INCREASE SIZES AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD CONDITIONS, ETC.
 *CU = COPPER CONDUCTOR, *AL = ALUMINUM CONDUCTOR
 ** WHERE THESE FIELDS ARE BLANK, PROVIDE INSULATION & CONDUIT MATERIAL PER THE...

FEEDER ID NOMENCLATURE:
 * - INDICATES FEEDER SIZED TO COMPENSATE FOR VOLTAGE DROP
 1 - GROUND TYPE (MAY BE BLANK)
 U = EQUIPMENT GROUND CONDUCTOR REMOVED FOR SERVICE ENTRANCE FROM UTILITY
 P = PARITY-SIZED EQUIPMENT GROUND CONDUCTOR
 X = EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED
 T = UPSIZED GROUND CONDUCTORS FOR TRANSFORMER SECONDARY
 2 - CONDUCTOR AMPACITY
 3 - TOTAL NUMBER OF PHASE AND GROUNDED ("NEUTRAL") CONDUCTORS
 4 - CONDUCTOR MATERIAL: C = COPPER, A = ALUMINUM
 5 - SPECIAL (MAY BE BLANK)
 I = ISOLATED GROUND (PROVIDE CONTINUOUS INSULATED EQUIPMENT GROUNDING CONDUCTOR(S) FROM INSULATED ISOLATED GROUND BAR(S) TO RESPECTIVE UPSTREAM SERVICE ENTRANCE OR DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR AS APPLICABLE.

SUPPLY TO	SUPPLY FROM	FEEDER ID	FEEDER	DEMAND (A)	VD %	NOTES
UTILITY	UTILITY	X1200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.892	
MDP	MDP	X1200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.102	
D1	WW	X200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.135	
A	D1	200-4C	(4) #30 AWG CU, (1) #6 AWG CU GND. IN 2" CONDUIT 75C RATED	199 A	0.462	
B	A	100-4C	(4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED	67 A	0.491	



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 1744 NW CHIPMAN ROAD
 LEE'S SUMMIT, MO 64081

ELECTRIC POWER - SINGLE LINE DIAGRAM

DRAWN BY	DJR
CHECKED BY	MPR
JOB NUMBER	25303
SHEET NAME	E-300

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NO.	REVISIONS:	DATE:
	BID, LL REVIEW, AND PERMIT	06.18.25

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STATE OF MISSOURI
 JEREMY A. TOY
 NUMBER PE-2021044400
 6/18/2025

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carhartt
 SUMMIT WOODS CROSSING
 1744 NW CHIPMAN ROAD
 LEE'S SUMMIT, MO 64081

ELECTRICAL PANEL SCHEDULES

DRAWN BY
 CHECKED BY
 MPR
 JOB NUMBER
25303
 SHEET NAME
E-301

PANEL NAME: B		BUSINESS: COPPER OR ALUMINUM		MOUNTING: SURFACE		PHASE: New Construction													
SUPPLY FROM: A		MAINS RATING (A): 100		FAULT CURRENT (A): 24806		SURGE SUPPRESSION:													
LOCATION: STOCK ROOM 4		MAINS TYPE: MAIN LUGS ONLY		SHORT CIRCUIT RATING (A): 42000		ULSE:													
DISTRIBUTION SYSTEM: 208/120V 3PH 4W		FEEDER ID: 100-4C		LUGS TYPE:		200% NEUTRAL:													
FEEDER: (4) #3 AWG CU, (1) #8 AWG CU GND, IN 1-1/4" CONDUIT 75C RATED		ENCLOSURE TYPE: NEMA 1		ISOLATED GROUND:															
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1	SPARE	--	--	--	20 A	20 A	1	0.00	0.36		1	20 A	20 A	#12	0.136		RCPT STOCK ROOM 4	2	
3	SPARE	--	--	--	20 A	20 A	1		0.00	0.00		1	20 A	20 A	--	--			4
5	RCPT STOCK ROOM 4	0.126	#12	#12	20 A	20 A	1			0.36	0.36	1	20 A	20 A	#12	0.986		RCPT SALES 1	6
7	(->) BOH QUAD	0.162	#12	#12	20 A	20 A	1	1.08	0.00			1	20 A	20 A	--	--	SPARE		8
9	RCPT OFFICE 6	1.052	#12	#12	20 A	20 A	1		1.08	0.00		1	20 A	20 A	--	--	SPARE		10
11	(->) OFFICE QUAD	0.418	#12	#12	20 A	20 A	1			0.36	0.00	1	20 A	20 A	--	--	SPARE		12
13	(->) BREAKROOM DUPLEX	0.261	#12	#12	20 A	20 A	1	0.18	0.00			1	20 A	20 A	--	--	SPARE		14
15	RCPT BREAK RM 7	0.842	#12	#12	20 A	20 A	1		0.54	0.00		1	20 A	20 A	--	--	SPARE		16
17	(->) BREAKROOM QUAD	0.471	#12	#12	20 A	20 A	1			0.36	0.26	1	20 A	20 A	#12	0.075		(->) RR RCPT	18
19	RCPT	0.159	#12	#12	20 A	20 A	1					1	20 A	20 A	--	--	SPARE		20
21	SPARE	--	--	--	20 A	20 A	1		0.00	0.00		1	20 A	20 A	--	--	SPARE		22
23										5.11	0.00	1	20 A	20 A	--	--	SPARE		24
25	AC-1 SALES 1	1.43	#4	#10	60 A	60 A	3	5.11	0.00			1	20 A	20 A	--	--	SPARE		26
27									5.11	0.00		1	20 A	20 A	--	--	SPARE		28
29	SPARE	--	--	--	20 A	20 A	1			0.00	0.00	1	20 A	20 A	--	--	SPARE		30
31	SPARE	--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	SPARE		32
33	SPARE	--	--	--	20 A	20 A	1		0.00	0.00		1	20 A	20 A	--	--	SPARE		34
35	SPARE	--	--	--	20 A	20 A	1			0.00	0.00	1	20 A	20 A	--	--	SPARE		36
37	SPARE	--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	SPARE		38
39	SPARE	--	--	--	20 A	20 A	1		0.00	0.00		1	20 A	20 A	--	--	SPARE		40
41	SPARE	--	--	--	20 A	20 A	1			0.00	0.00	1	20 A	20 A	--	--	SPARE		42

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	NOTES:	BREAKER QUANTITIES (NEW ONLY)
Continuous	15336 VA	125.00%	19170 VA		(3) 20A / 1P, (1) 60A / 3P
Non-Continuous	80 VA	100.00%	80 VA		
Receptacle	5040 VA	100.00%	5040 VA		
PANEL TOTALS					
TOTAL CONNECTED LOAD: 20.5 kVA					
DEMAND CALCULATION NOTES:					
TOTAL DEMAND: 24.3 kVA					
TOTAL DEMAND AMPS: 67 A					

PANEL NAME: A		BUSINESS: COPPER OR ALUMINUM		MOUNTING: SURFACE		PHASE: New Construction													
SUPPLY FROM: D1		MAINS RATING (A): 200		FAULT CURRENT (A): 27177		SURGE SUPPRESSION:													
LOCATION: STOCK ROOM 4		MAINS TYPE: THERMAL MAGNETIC		SHORT CIRCUIT RATING (A): 42000		ULSE:													
DISTRIBUTION SYSTEM: 208/120V 3PH 4W		FEEDER ID: 200-4C		LUGS TYPE:		200% NEUTRAL:													
FEEDER: (4) #3/0 AWG CU, (1) #6 AWG CU GND, IN 2" CONDUIT 75C RATED		ENCLOSURE TYPE: NEMA 1		ISOLATED GROUND:															
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1	SALES GENERAL LTG	1.372	#12	#12	20 A	20 A	1	1.07	0.72		1	20 A	20 A	#12	0.475		(->)(G) DF1	2	
3	SALES GENERAL LTG	1.266	#12	#12	20 A	20 A	1		0.93	1.65		1	20 A	20 A	#12	0.721		(->) EX-WH TOILET ROOM 5	4
5	PERIMETER TRACK	1.085	#12	#12	20 A	20 A	1			0.78	0.20	1	20 A	20 A	#12	0.017		C1 C2 C3 STOCK ROOM 4	6
7	CENTER TRACK	0.778	#12	#12	15 A	15 A	1	0.57	1.20			1	20 A	20 A	#10	*#10 2.543		SIGNAGE CONTINUOUS	8
9	CENTER TRACK	1.305	#12	#12	15 A	15 A	1		0.82	0.02		1	20 A	20 A	#12	0.011		EXTERIOR LIGHTING	10
11	PERIMETER TRACK	1.155	#12	#12	15 A	15 A	1			1.00	1.26	1	15 A	15 A	#12	0.378		EF-1 LTG HALLWAY 3	12
13	RCPT SALES 1	1.243	#12	#12	20 A	20 A	1	0.72	6.92										14
15	RCPT SALES 1	0.841	#12	#12	20 A	20 A	1		0.36	6.92		3	80 A	80 A	#8	#3 1.506		(->) EXRTU SALES 1	16
17	RCPT SALES 1	0.777	#12	#12	20 A	20 A	1			0.36	6.92								18
19	RCPT FITTING ROOM AREA 2	0.402	#12	#12	20 A	20 A	1	0.54	3.13										20
21	RCPT	0.366	#12	#12	20 A	20 A	1		0.36	3.13		3	40 A	40 A	#10	#8 1.549		RTU-2 SALES 1	22
23	RCPT 6, 7, 1	3.551	#12	#12	20 A	20 A	1			1.08	3.13								24
25	SPARE	--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	SPARE		26
27	SHOW WINDOW RECEPTACLES	2.831	#12	#12	20 A	20 A	1		0.90	0.00		1	20 A	20 A	--	--	SPARE		28
29	LTG SALES 1	1.056	#12	#12	15 A	15 A	1			0.34	0.00	1	20 A	20 A	--	--	SPARE		30
31	SPARE	--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	SPARE		32
33	SPARE	--	--	--	20 A	20 A	1		0.00	0.00		1	20 A	20 A	--	--	SPARE		34
35	SPARE	--	--	--	20 A	20 A	1			0.00	0.00	1	20 A	20 A	--	--	SPARE		36
37								6.91	0.00			1	20 A	20 A	--	--	SPARE		38
39	B	SL	SL	SL	100 A	100 A	3		6.73	0.00		1	20 A	20 A	--	--	SPARE		40
41										6.81	0.00	1	20 A	20 A	--	--	SPARE		42

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	NOTES:	BREAKER QUANTITIES (NEW ONLY)
Continuous	18186 VA	125.00%	22733 VA		(5) 15A / 1P, (27) 20A / 1P, (1) 20A / 1P(G), (1) 40A / 3P, (1) 80A / 3P, (1) 100A / 3P
Heating	30154 VA	100.00%	30154 VA		
Lighting	6753 VA	125.00%	8442 VA		
Motor	35 VA	125.00%	44 VA		
Non-Continuous	280 VA	100.00%	280 VA		
Receptacle	10080 VA	99.60%	10040 VA		
PANEL TOTALS					
TOTAL CONNECTED LOAD: 65.5 kVA					
DEMAND CALCULATION NOTES:					
TOTAL DEMAND: 71.7 kVA					
TOTAL DEMAND AMPS: 199 A					

PANEL SCHEDULE LEGEND

- * = WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP
- ** = REFER TO DRAWINGS FOR SPECIFICATIONS
- (#) = NEW CIRCUIT TO EXISTING CIRCUIT BREAKER
- (->) = CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) INDICATED. DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF REQUIRED.
- (A) = PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER
- (AG) = PROVIDE COMBINATION ARC FAULT (AFCI) / GROUND FAULT (GFCI) CIRCUIT INTERRUPTER CIRCUIT BREAKER
- (AT) = EXISTING FUSIBLE SWITCH/CIRCUIT BREAKER WITH NEW FUSES/TRIP RATING
- (DO) = PROVIDE DRAW-OUT CIRCUIT BREAKER
- (ERM) = PROVIDE ENERGY REDUCTION MAINTENANCE (REDUCED ENERGY) CIRCUIT BREAKER
- (EX) = EXISTING CIRCUIT TO REMAIN

- (F) = CIRCUIT FOR FUTURE USE. PROVIDE BREAKER INDICATED. LOAD SHOWN FOR REFERENCE ONLY.
- (G) = PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER
- (GE) = PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER
- (GS) = PROVIDE SPECIAL PURPOSE GROUND-FAULT CIRCUIT INTERRUPTER (SPGFCI) CIRCUIT BREAKER
- (H) = PROVIDE HANDLE TIE
- (L) = PROVIDE LOCK-ON DEVICE
- (LI) = PROVIDE ELECTRONIC LONG AND INSTANTANEOUS ADJUSTABILITY
- (LSI) = PROVIDE ELECTRONIC LONG, SHORT, AND INSTANTANEOUS ADJUSTABILITY
- (LSIA) = PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ALARM ADJUSTABILITY
- (LSIG) = PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ADJUSTABILITY
- (LT) = PROVIDE LOCK-OUT/TAG-OUT DEVICE
- SL = SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP
- (ST) = PROVIDE SHUNT TRIP CIRCUIT BREAKER

PANEL SCHEDULE GENERAL NOTES

- A. PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
- B. ALL CONDUCTORS SHOWN ARE COPPER.
- C. ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS. ACTUAL VOLTAGE DROP MAY VARY BASED ON INSTALLED WIRE LENGTH.
- D. VOLTAGE DROP CALCULATIONS AND WIRE SIZES SHOWN IN THE PANEL SCHEDULES ARE FOR HOMERUN CONDUCTORS ONLY. FOR CIRCUITS WITH MORE THAN 1 DEVICE, THESE SIZES ASSUME THE CONDUCTORS DOWNSTREAM OF THE HOMERUN DEVICE ARE THE MINIMUM SIZE REQUIRED BY THE NEC BASED ON THE RATING OF THE CIRCUIT. WHERE THIS IS NOT THE CASE, IT HAS BEEN INDICATED ON THE DRAWINGS. VOLTAGE DROP TO THE FARTHEST DEVICE HAS BEEN CALCULATED TO NEVER EXCEED 5%.
- E. RECEPTACLE LOADS CALCULATED AT 100% OF FIRST 10kVA, 50% OF REMAINDER. MOTOR LOADS CALCULATED AT 125% OF THE LARGEST MOTOR, 100% OF ALL OTHER MOTORS.

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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
 Project Type: Alteration

Construction Site: 1744 NW CHIPMAN RD LEES SUMMIT, MO 64081
 Owner/Agent:
 Designer/Contractor: KLH Engineers 1538 Alexandria Pike Fort Thomas, KY 41075

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-FITTING ROOM AREA 2 (Retail:Dressing/Fitting Room)	168	0.50	84
2-SALES 1 (Common Space Types:Sales Area)	3741	1.59	5948
3-HALLWAY 3 (Common Space Types:Corridor/Transition <8 ft wide)	231	0.66	153
4-OFFICE 6 (Common Space Types:Office - Enclosed)	64	0.93	60
5-BREAK RM 7 (Common Space Types:Lounge/Breakroom)	134	0.62	83
6-STOCK ROOM 4 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	858	0.46	395
7-TOILET ROOM 5 (Common Space Types:Restrooms)	65	0.85	55
Total Allowed Watts =			6777

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture (C X D)	D Fixture Watt.	E (C X D)
FITTING ROOM AREA 2 (Retail: Dressing/Fitting Room, 168 sq.ft.) M: M: HI BAY LIGHTING: Other:	1	4	35	140
SALES 1 (Common Space Types: Sales Area, 3740 sq.ft.) A: A: HI BAY LIGHTING: Other: Track Lighting: Wattage based on total luminaires	1	23	81	1863
HALLWAY 3 (Common Space Types: Corridor/Transition <8 ft wide, 231 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1	3	45	135
OFFICE 6 (Common Space Types: Office - Enclosed, 64 sq.ft.) E4E: E4E: LINEAR LED: Other:	1	1	45	45
BREAK RM 7 (Common Space Types: Lounge/Breakroom, 134 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1	1	45	45
STOCK ROOM 4 (Common Space Types: Storage >=50 - <=1000 sq.ft., 858 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1	14	45	630
	1	3	45	135

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture (C X D)	D Fixture Watt.	E (C X D)
TOILET ROOM 5 (Common Space Types: Restrooms, 64 sq.ft.) E4E: E4E: LINEAR LED: Other:	1	1	45	45
Total Proposed Watts =			6640	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
 Data filename: Page 2 of 6



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
 Data filename: Page 3 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq.ft. that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL19] ¹	Occupancy sensors control function in warehouses. In warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 [EL21] ²	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
 Data filename: Page 4 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sidelit zones on first floor in Group A-2 and M occupancies.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
 Data filename: Page 5 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.2 [F117] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F116] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO Report date: 06/11/25
 Data filename: Page 6 of 6

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NO.	REVISIONS	DATE
	BID, LL REVIEW, AND PERMIT	06.18.25

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STATE OF MISSOURI
 JEREMY A. TOY
 NUMBER PE-2021044400
 6/18/2025
 SEAL

carhartt
 SUMMIT WOODS CROSSING
 1744 NW CHIPMAN ROAD
 LEES SUMMIT, MO 64081

ENERGY COMPLIANCE

DRAWN BY
 DJR
 CHECKED BY
 MPR
 JOB NUMBER
 25303
 SHEET NAME
 E-400

OWNERSHIP OF INSTRUMENTS OF SERVICE
 The drawings, specifications, notes, and other documents and instruments prepared by this Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright therein.

26 05 01.00 - COMMON WORK RESULTS FOR ELECTRIC

The General Provisions of the Contract including the General and Supplemental Conditions and General Requirements apply to the work in this section. Before submitting a bid, examine documents of all other trades, visit the site and get acquainted with all conditions that may in any way affect the execution of this contract. Take measurements and be responsible for exact size and locations of all openings required for the installation of work. Note dimensions on any desired locations for devices. Coordinate with owner representative on site prior to deviating from noted dimensions for any reason. Where detailed method of installation is not indicated or where variations exist between described work and approved practice, direction of the Owners representative on job site shall be followed.

Whenever the words "contractor", "this contractor", etc. appear on drawings or in these specifications for the Electrical Work, it shall refer to the Electrical Sub-Contractor. Whenever the word "Provide" appears in these documents, it shall be interpreted to mean "Furnish and Install." The word "Relocate" appears in these documents, it shall be interpreted to disconnect electrical feed, make safe including lock out, store and protect device, reinstall, rework and extend conduit and wire to new location, re-energize and test.

The exact mounting height of devices shall be determined in the field with relation to architectural details and equipment being served. It shall be the responsibility of this contractor to coordinate outlet location with equipment. The Owners representative shall be permitted to relocate any outlet prior to installation within a 15 foot limit at no additional charge in contract price. All fasteners, hangers and methods of hanging exposed work in finished areas shall be submitted to the Owners representative for approval before installation.

The contract includes all items of material and labor required for the complete installation and full operation of the electrical work as shown on the drawings and hereinafter specified. All materials and methods shall be in accordance with applicable codes, regulations and/or ordinances and meet the approval of local inspection authority having jurisdiction. The latest edition of NFPA 70 (NEC/National Electrical Code) shall be the minimum requirement for all work. Examine the drawings and specifications for compliance with the above codes, regulations and ordinances and base bid and work accordingly. Obtain and pay for all permits and inspections related to this work. A certificate of approval for work from inspection authority shall be given to the Owner before final acceptance will be given by Owners representative.

All work, materials, and equipment shall have a one-year warranty after acceptance of the work by the Owner. Any defective items shall be removed and replaced at the electrical sub-contractor's expense and to the satisfaction of the engineer and owner's representative.

Perform work under this contract in close harmony with other contractors so completed work shall present a neat and workmanlike installation. Exposed electrical materials and equipment shall be carefully cleaned and wiped to remove grease, smudges, fingerprints, dust and other spots and left smooth and clean. During the progress of the work, the electrical sub-contractor shall carefully clean the job site and shall leave the premises and all portions of the building in which he is working free of debris and in a clean and safe condition.

This contractor shall be responsible for the training of owner's representatives of each system to the satisfaction of the Owners representative.

The Electrical Contractor shall consult the Plumbing, HVAC and Structural plans (where applicable) in all instances before installing his work so that his work will not interfere with those branches. In the event of a conflict, this contractor shall report to the Owners representative at once and do no further work to be installed until a satisfactory arrangement is decided upon. Any work done or equipment placed in position by this contractor, creating a conflict in violation hereof, shall be readjusted to the satisfaction of the Owner's representative at the expense of the contractor. The decision of the Owners representative shall be final in regard to changes due to conflicting conditions. Contractor shall complete his work or any part thereof at such time as may be designated by the Owner, so that it can be used for temporary or permanent use and such use of the system shall not be construed as an acceptance of same by Owner.

Two sets of electrical drawings shall be provided as record drawings which shall be separate, clean, copies reserved for the purpose of showing a complete picture of the work as actually installed. These drawings shall also serve as work progress report sheets and the electrical contractor shall make any notations, neat and legible thereon daily as work proceeds. The drawings shall be available for inspection at all times and shall be kept at the job at a location designated by the Owners representative. At the completion of the work, these record drawings shall be signed by the electrical contractor, dated and returned to the Owners representative. Final payment of contract will not be made until receipt and review of said drawings.

Provide two neatly bound (with tabbed sections) copies of completed drawings in hard books and two copies of drawings pertaining to all equipment furnished. Submit to the Owners representative for approval. Final payment will not be made until drawings for record, maintenance and instruction manuals are delivered to the Owners representative.

26 05 02.00 - COMMON ELECTRICAL MATERIALS AND METHODS

All materials and equipment shall be new. All materials, apparatus and equipment shall bear the seal of Underwriters Laboratories Inc. (UL), or a similar credible testing agency, label which regularly supplied. Certain manufacturers of material and equipment are specified and plans are detailed according to this material. This

contractor shall base his bid on furnishing and installing this make of material and equipment.

Where more than one make of material or equipment is specified, the contractor shall state in his bid which make he proposes to furnish. Shop drawings shall be submitted on material and equipment to be furnished by the contractor for Engineers approval. This approval to be obtained prior to shipment of equipment.

Hold routing of new raceways in new and existing buildings as tightly as possible to the structure above. Obtain approval of owner's representative prior to installation. Do not install any electrical work within 6 inches of roof decking.

Neatly dress all work. Install all work parallel and perpendicular to surfaces or exposed structural members, and follow surface contours, where possible. Install splice and tap connectors which possess equivalent or better mechanical strength and insulation rating than conductors being spliced. Use splice and tap connectors which are compatible with conductor material. All wires shall be run continuous from outlet to outlet/luminaire to luminaire. Insulation value of joints shall be 100% in excess of wire. Provide adequate length of conductors within electrical enclosures and train the conductors to terminal points with no excess. Bundle multiple conductors, with conductors no larger than 10 AWG cabled in individual circuits. Make terminations so there is no bare conductor at the terminal.

Maintain a uniform elevation for all cable runs wherever possible. All cables shall be supported/anchored at maximum 4 foot intervals and within 12" of box or outlet and shall not sag. Install cables in a manner that prevents overheating. Cables shall be fastened directly to the structure using factory clamps/clips specifically designed for the respective cable (Caddy or equal).

Keep conductor splices to minimum. Pull conductors simultaneously where more than one is being installed in same raceway. Use UL listed pulling compound or lubricant, where necessary. Increase wire sizes to offset voltage drop as/if required.

Branch subfeeder circuits shall be installed as shown on the floor plans. Where outlets are indicated by letters on plans, they shall be controlled by corresponding switches.

Outlets shall be located approximately as shown on the plans and shall be wired to provide control of outlets indicated. All wires of any one circuit shall be run in the same conduit.

Mechanical wire splicers shall be Scotchlock insulated type, TandB Stakon or approved equal. The conductors terminating at each wired outlet shall be left not less than 3" long at their outlet fittings to facilitate installation of devices or luminaires. Friction and rubber tape conform to Federal Specifications HH-T-11 and HH-T-111. Plastic electrical tape shall be Scotch #33+ or approved equal.

Do not share neutrals when amongst multiple branch circuits or with multi-wire branch circuits.

Provide grounding electrode conductors for service entrances and derived systems.

Provide all feeders and branch circuits with insulated (green covering) equipment grounding.

Only install conduit exposed on rooftops when it is impossible to do otherwise, or only if specifically indicated for such installation case-by-case elsewhere in documents. Installation convenience, financial considerations, lack of coordination with other trades and similar rationale are not sufficient reasons for doing so. In cases where conduits must be installed on rooftops, de-rate conductors and modify conduit sizes as needed to accommodate this condition. Provide expansion fittings, which are UL listed and labeled for the respective applications, at all building expansion joints and at maximum distances of 100 feet. Paint all such conduits with at least two coats of UV-resistant weatherproof paint. Provide white paint on flat rooftops that have finishes which are white in color, and for other finishes that are not visible from the building interior or from the ground outdoors. Elsewhere select colors to match surrounding surfaces; submit colors to Architect for review in advance of procuring paint.

Provide all cutting and patching required for the admission of work. Any damage done by this contractor to the building during the progress of work shall be made good at contractor's own expense. All patching shall be done by a skilled craftsman in that respective trade. It shall be the responsibility of this contractor to supervise the installation of, and pay for all additional members, wood or metal and labor which may be required to support any type of permanent or temporary electrical apparatus employed in the execution of this contractor's work.

Access Doors: Do not use access doors unless special prior written permission is granted from the Owner's Representative. Install pull boxes, junction boxes, etc. in areas which are accessible to the public after completion of construction. Do not install pull boxes or junction boxes above gypsum board or similar inaccessible ceiling systems. Where there is no other recourse but to provide an access door/panel, and where approval of Owner's Representative has been obtained, provide required access doors/panels as required for a complete code-compliant electrical installation as defined below. Provide access doors in fire/smoke ratings that meet or exceed the surrounding surface that is being penetrated.

Seal all new floor, ceiling, wall, slab, etc. penetrations to meet or exceed existing assembly fire ratings. Provide sleeve seals for all sleeves, provide sleeves for all penetrations. All penetrations of fire-rated or smoke-rated wall, floors ceilings, etc. shall be sealed immediately after raceways are installed. All new electrically related work shall be supported directly from building structural members. New electrically related work shall not be supported from ductwork, ductwork hanger, ceiling supports, existing conduit support, etc.

26 05 03.00 - SUBMITTALS FOR ELECTRICAL PRODUCTS

Provide submittals in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division.

Some Divisions may include a division-specific "Submittal Requirements for ..." section. Where this section exists, it articulates additional requirements for submittals that apply to the work of that Division. The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.

Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Separate PDF file packages shall be supplied for each section, for each submittal type. Each PDF shall represent a single stand-alone submittal.

Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration.

Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created by the contractor and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com.

Include an index: The index shall enumerate the contents of the submittal.

Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a submittal, that submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 - original submission, 01 - First Resubmission, 02 - Second Resubmission, etc.). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection.

Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 260519 would be labeled as "260519.00-PD-00"; the first resubmittal of same shall be labeled "260519.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "260519.00-SD-00"; the first resubmittal of same shall be labeled "260519.00-SD-01".

If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer.

"Request Drawings" form can be accessed, filled out and submitted at the following URL: <http://files.klhengrs.com/requestdrawings.html>

26 05 19.00 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

Submittal Requirements
Product Data
For each type of conductor and cable.

Furnish and install all necessary cable of the size and type indicated on the drawings or specified hereinafter. All wire shall be copper. All wiring shall be new. No wire smaller than #12 AWG shall be installed unless specifically designated. Use of #14 color coded wire will be allowed for control circuits only. Provide stranded conductors for all sizes unless indicated otherwise.

Provide THNH/TWHN-2 insulation for all conductors as appropriate for the locations where installed. Provide color coded insulation/jacket for phase identification. All wires shall be rated at 600 volts. Provide type XHHW-2 insulation for all wiring below grade or subject to moisture.

Unless specifically indicated otherwise on drawings, provide grounded ("neutral") conductors that are at least parity-sized with corresponding phase/line conductors for all applications.

All conductors shall be rated for 90 deg. C. minimum. Provide with green insulated equipment ground conductor. Provide compatible steel fittings with integral red plastic insulated throat bushings. Cables shall be 90 deg. C. rated with all components and fittings listed for grounding and compliant with the following: UL Std.4 and UL Std. 83; ANSI E119 and E814; NFPA 70.

Aluminum Conductors: Where applicable for electrical equipment connections for aluminum wiring, provide the following supplemental requirements and notes regardless of who furnishes the equipment or what type of equipment

is affected. Review equipment submittals, installation documents and nameplates to determine if there are any warranty or UL limitations regarding copper versus aluminum wiring connections at equipment. If there are any limitations, provide local non-fused disconnect at or near equipment (external to the equipment) and terminate aluminum conductors to the line side terminals of the disconnect switch. Provide copper conductors from load side terminals of the disconnect switch to the respective equipment factory disconnect or terminals as applicable. Provide UL-Listed AA-4000 series compact-stranded conductors compliant with specifications, prevailing codes and end-use equipment manufacturer requirements. Provide appropriately UL-Listed connectors as recommended by conductor manufacturer.

Cables: Route cables perpendicular and parallel to the building architectural lines, surfaces, and structural members, keeping offsets to a minimum and following surface contours where possible. Maintain a uniform elevation for cable runs wherever possible. Support and anchor cables at maximum 4 foot intervals and within 12" of box or outlet in a manner that prevents sagging. Install cables in a manner that prevents overheating. Fasten cables directly to the structure using factory clamps and clips (zip ties and like products are not permitted) specifically designed for the respective cable (Caddy or equal). Cables may be utilized only if code-approved for the intended use and in the limited applications defined below.

Type MC (Metal-Clad) Cable: Form from continuous length of spirally wound, interlocked zinc-coated or galvanized (inside and outside) strip steel or aluminum jacket, with stranded copper conductors with 90 deg. C THHN insulation system. Provide only where permitted in the Conduit/Wire Material Schedule shown on the drawings

26 05 26.00 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

All metallic conduit, surface raceways, wireways, supports, cabinet and equipment shall be grounded.

26 05 29.00 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

It shall be the responsibility of the electrical contractor to supervise the installation of and pay for all additional members, wood or metal and labor which may be required to support any type of permanent or temporary electrical apparatus employed in the execution of the electrical contractor's work. Provide supports, anchors, sleeves and seals furnished as part of factory-fabricated equipment as required. Locations and routing that may be shown on plans are schematic and diagrammatic in nature. Metallic products shall be galvanized steel.

Conduit shall be supported by approved straps, fasteners and hangers. Hangers shall be suspended from rods. Perforated straps will not be acceptable. Fasteners shall be lead expansion shields in block or concrete, toggle bolts in hollow walls, machine screws on metal surfaces and wood screws on wood construction. All building expansion joints and where deflection is expected, conduits shall be provided with expansion fittings with bonding jumpers. Conduits passing through structural members shall be provided with stub and coupling or sleeve in the member. Where moisture conditions are encountered, a hole shall be drilled at the lowest point in the conduit run. Also provide sleeves for all fire wall and smoke partition penetrations (sealed accordingly).

All conduit shall be supported independently from all other building systems and shall be supported directly from structural components. Electrically related work shall not be supported from ductwork, ductwork hangers, ceiling supports, existing conduit supports, etc.

Use of synthetic or plastic "tie-wraps", "zip ties", "wire ties" and similar products are not permitted as a permanent means of anchoring, securing, supporting or otherwise installing any cables, conduits, raceways, devices, equipment or other electrical work.

All conduits, raceways and cables (where applicable) shall be routed parallel and perpendicular to building structural members. Any and all noncompliant work installed by the electrical contractor shall be removed and reinstalled by the electrical contractor to the satisfaction of the Owner's representative and the Engineer, at the expense of the electrical contractor, at building expansion joints and where deflection is expected, provide conduits with expansion fittings with bonding jumpers. Conduits passing through structural members shall be provided with stub and coupling or sleeve in the member. Where moisture conditions are encountered, a hole shall be drilled at the lowest point in the conduit run. Provide sleeves for all fire wall and smoke partition penetrations (sealed accordingly).

Stem lengths of all pendant fixtures shall be as directed by the owner's representative. All fasteners, hangers and method of hanging exposed work in finished areas shall be submitted to the owner's representative for review before installation. Fasteners shall be zinc-coated, type, grade, and class as required for a neat finished installation.

Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded. Install anchor bolts to elevations required for proper attachment to supported equipment. Provide female expansion anchors, and install studs and nuts after equipment is positioned. Provide bushings for floor/wall-mounted equipment anchors to allow for resilient material between anchor bolts/studs and mounting hole in concrete.

Touchup Painting: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting.

Provide supports for multiple raceways capable of supporting combined weight of supported systems,

connected systems and associated components/contents. Provide supports adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this project, with a minimum structural safety factor of five times the applied force.

Coordinate installation of roof curbs, equipment supports, and roof penetrations.

Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly. Construct with all necessary fittings which mate and match with U-channel. Provide metallic coatings that are hot-dip galvanized after fabrication and applied according to MFMA-4. Provide channel dimensions that are selected for applicable load criteria. Comply with NECA 1 and NECA 101 unless requirements in this or other specification sections are stricter.

Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted, sized so capacity can be increased by at least 50 percent in future without exceeding specified design load limits. Secure raceways and cables to these supports with two-bolt conduit clamps, single-bolt conduit clamps, or single-bolt conduit clamps using spring friction action for retention in support channel as applicable.

Overhead Electric Work: Install work so that no raceway or cable is within six inches below roof deck(s). Suspend and support overhead electrical work from roof trusses and joists/joist girders only at panel points, at top cord only, unless otherwise indicated.

Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.

Roof Decks: Do not suspend overhead hangers, or support any other overhead electrical work, from roof decks.

Plywood Equipment Boards: Lumber shall be preservative treated in accordance with AWPB LP-2, and kiln dried to a moisture content of not more than 19 percent. Provide plywood panels; APA C-D PLUGGED INT, with existing single line of text, 1/2" high lettering, or 1" not indicated, not less than 3/4 inches deep. Provide marine grade plywood where subject to moisture conditions. Unless otherwise noted, boards shall be painted with two coats of good grade weatherproof flat gray non-conductive fire-retardant paint on all sides and edges (prior to mounting) and plumbed in a true vertical position. Provide nominal 1/2" rustproof spacers between back of plywood and wall. Maintain at least 4 inches from bottom of plywood equipment boards and the finished floor surface. Boards shall be 8 feet high by 3/4 inches deep by length shown on drawings (as dimensioned or as scaled) or length as required to accommodate equipment if not indicated on drawings. Provide plywood equipment boards at locations as shown on drawings. Unless directed otherwise in field, plywood equipment boards shall be provided for all surface mounted panelboards and systems "head-end" equipment for all applications where located in mechanical or electrical rooms and only where specifically shown on drawings for other applications.

26 05 33.00 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

Normal system power feeders and branch circuits shall be installed in separate raceways from emergency system power. All wiring for different power voltages shall be installed in raceway systems separate from each other. All wiring for the various electrical systems shall be installed in raceway systems separate from each other. All fittings shall be set-screw or compression type steel, with insulated throats. Unless indicated otherwise on drawings or in other parts of the electrical specifications, all wiring of all systems shall be installed in conduit.

Conduit shall be cleaned inside before any wires are pulled. Conduit ends shall be capped and plugged with standard accessories as soon as conduit has been permanently installed. Conduit installed without conductors shall be provided with sweep bends and baling wire for pulling.

26 05 84.00 - MECHANICAL EQUIPMENT

Provide all necessary electrically related work as required to render all mechanical equipment (including plumbing, heating, ventilating and air conditioning equipment) fully operational and fully compliant with all local and national codes. This includes, prior to ordering materials or commencing with rough-in, reviewing equipment submittal data and coordinating with installing contractors to ensure the correct size, rating and quantity of conductors are provided.

Provide disconnect switch ahead of all equipment, including control, unless shown otherwise on the drawings. Provide NEMA 3R enclosures where installed outdoors and where installed indoors in areas subject to moisture. Ground metal frames of equipment by connecting frames to the grounded metal raceway and to a full-size green ground conductor. Provide the necessary electrical connections to the specified equipment. Where mechanical equipment lugs cannot accommodate conductor sizes, provide ILSCO ClearTap Insulated Multi-Tap Connectors.

Sizes, electrical ratings, etc. of equipment and wiring shown on drawings are based on the respective equipment basis of design. If different manufacturer(s) or model(s) are supplied, provide necessary coordination in field (prior to ordering materials and prior to rough-in) and provide the necessary size of related electrical equipment, wiring, conduit, etc.

Prior to furnishing submittals and prior to rough-in, determine and describe in detail characteristics, loads, voltages, disconnect and starter requirements, locations, mounting heights, connection points, etc. of mechanical equipment.

Disconnect and Controller Locations - Locations shown on drawings are indicated on drawings for identification purposes only. Determine exact locations in field. Refer to Electrical Coordination Schedules on drawings. Provide disconnects, starters, accessories, wiring, connections, services, etc. where defined as "EC" in the schedule. Information in this section supplements the information in the schedules.

Provide power wiring and connections for all equipment (including motor dampers and accessories where applicable) as required to render equipment fully operational.

Where outlet boxes occur in block, cinder, or concrete block, facing tie or other material where such materials form the finished wall surface, the opening for the box shall be cut neatly and of the size that the cover plate will cover all parts of the opening. Condulets shall be used on exposed raceways. In general, junction boxes shall be constructed of #12 gauge steel with removable front fastened on with counter sunk head screws or other approved means. For special application, junction boxes

shall be noted, detailed and/or sized on the drawings or in the field as required.

Prior to rough-in, verify all box/device mounting heights and locations in field with Owners representative. In general, where not located at counter areas, the height of boxes from finished floor to center of boxes shall be as follows, unless otherwise noted on plans. In cases where using center of box for measurement would result in a switch-height device having an operable component higher than 48 inches above finished floor, install boxes lower as needed so that uppermost part of operable component is no higher than 48 inches.

Switches: 3'10" Receptacles: 1'6" (unless counter height) Telephone Outlets (desk phone): 1'6" Telephone Outlets (Wall phone): 3'10" Data Cable Outlets: 1'6" Other devices: As directed in field.

26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

Provide manufacturers standard self-adhesive vinyl tape labels (less than 1/8 inch thick by 1-1/2 inch. Where applicable, install on all concealed raceways at connection to all junction boxes, pull boxes, equipment, wall/floor/roof penetrations, etc. Unless otherwise indicated or required by governing regulations, provide orange tape with black letters. Provide circuit identification bands for all cables and conductors. Provide manufacturers standard color coding for cable/conductor jacket and/or insulation for all cables and conductors of all systems. Match identification with marking system used in existing systems (where applicable), shop drawings, contract documents, and similar previously established identification for projects electrical work. Provide on all conductors of all systems.

The following insulation color code shall be used for system and voltage identification. This shall apply to both feeder and branch circuit wiring. Interchange of colors shall not be permitted.

208Y/120V System: Black, Red, Blue and White (neutral)
Equipment Grounding Systems: Green To match existing where applicable - verify in field.

Provide engraved plastic-laminate sign on major units of electrical equipment, including panelboards, disconnects, starter, control panels, etc. Except as otherwise indicated, provide single line of text, 1/2" high lettering, on 1-1/2" high sign (2" high where 2 lines are required), white lettering in black field. Unless determined otherwise in field, provide text matching terminology and numbering of the contract documents and shop drawings. Secure to substrate with fasteners, except use adhesive where fasteners should not or cannot penetrate substrate.

All equipment and system identification nomenclature shown on drawings or listed herein is shown for general design and installation reference only. The actual nameplate, etc. nomenclature for this project shall be verified by electrical contractor in field prior to fabrication and where applicable, shall be an extension of existing nomenclature used on the site as determined in field by electrical contractor.

Equipment to Be Labeled: All enclosures for all electrical equipment furnished or installed under Divisions 26 and 28; Remote-controlled switches, dimmer modules, and control devices; vinyl engraved wall plates; Miscellaneous Control Stations; Access doors and panels for concealed electrical items; Other similar equipment designated by owner's representative, architect or engineer in field.

26 05 84.00 - MECHANICAL EQUIPMENT

Provide all necessary electrically related work as required to render all mechanical equipment (including plumbing, heating, ventilating and air conditioning equipment) fully operational and fully compliant with all local and national codes. This includes, prior to ordering materials or commencing with rough-in, reviewing equipment submittal data and coordinating with installing contractors to ensure the correct size, rating and quantity of conductors are provided.

Provide disconnect switch ahead of all equipment, including control, unless shown otherwise on the drawings. Provide NEMA 3R enclosures where installed outdoors and where installed indoors in areas subject to moisture. Ground metal frames of equipment by connecting frames to the grounded metal raceway and to a full-size green ground conductor. Provide the necessary electrical connections to the specified equipment. Where mechanical equipment lugs cannot accommodate conductor sizes, provide ILSCO ClearTap Insulated Multi-Tap Connectors.

Sizes, electrical ratings, etc. of equipment and wiring shown on drawings are based on the respective equipment basis of design. If different manufacturer(s) or model(s) are supplied, provide necessary coordination in field (prior to ordering materials and prior to rough-in) and provide the necessary size of related electrical equipment, wiring, conduit, etc.

Prior to furnishing submittals and prior to rough-in, determine and describe in detail characteristics, loads, voltages, disconnect and starter requirements, locations, mounting heights, connection points, etc. of mechanical equipment.

Disconnect and Controller Locations - Locations shown on drawings are indicated on drawings for identification purposes only. Determine exact locations in field. Refer to Electrical Coordination Schedules on drawings. Provide disconnects, starters, accessories, wiring, connections, services, etc. where defined as "EC" in the schedule. Information in this section supplements the information in the schedules.

fully operational. Install local disconnects and starters at 48 inches to top of outlet box or enclosure where applicable above finished floor/slab/grade. Provide key flush mounted units in finished areas. Provide key operated, lock-out/tag-out where accessible to unauthorized personnel, including general public.

Maintenance Receptacles: Provide duplex GFCI receptacle within 25 feet of all electrically operated equipment of any nature that requires periodic testing or maintenance. This applies for all indoor and outdoor equipment. Provide Type WR duplex GFCI weatherproof receptacle for outdoor applications (including rooftops) and for applications subject to high humidity or moisture.

Domestic Water Heaters (Electric): Provide local disconnect switch, and power wiring and connections. Provide interlock wiring with circulating pumps, flow switches and aquastat controls where applicable.

Domestic Hot Water Circulating Pumps (Return Line): Provide manual starter with pilot light, and wire pump to operate through the aquastat. Refer to wiring diagrams on drawings for further definition.

Electric Water Coolers: Provide 120V duplex receptacle or direct 120V connection with lock-out/tag-out provisions at source circuit breaker (verify required method in field with electric water cooler installer). Provide GFCI circuit breaker to feed the circuit that serves electric water coolers, even if not indicated on panelboard schedule. Install outlets at height and location as directed by water cooler installer. Conceal outlets within water cooler enclosure if enclosure is designed for such an installation. Assemble and connect cord if applicable and needed. Coordinate all specifics with water cooler installing contractor prior to rough-in of related work.

General Control Wiring Requirements: Unless specifically indicated as empty conduit on drawings or herein, provide electrical control and interlock work as shown on drawings. Provide additional control work as specifically indicated herein. Coordinate HVAC thermostat and sensor locations in field (as-calls) with Architect. Owner's Representative and equipment installer to ensure that they are placed in locations that will not interfere with furniture, equipment, artwork, wall-hung specialties, room finishes, etc. Field-verify these wall locations case by case, prior to rough-in, since locations shown on drawings are schematic only.

Schematic Thermostat and Sensor Locations: Refer to applicable drawings and documents.

Low Voltage Thermostats and Sensors: Provide 4-inch square by 2-1/8 inch deep wall outlet boxes at 48 inches above finished floor to center of outlet box (with single-gang rings) for each unit. Provide one 3/4 inch empty conduit from each location, turned out above accessible ceilings (in joint space or against overhead slab/deck). Identify conduit in ceiling cavity; provide sweep bends, bushings and drag line.

Line Voltage Thermostats and Sensors: Provide 4-inch square by 2-1/8 inch deep wall outlet boxes at 48 inches above finished floor to center of outlet box (with single-gang rings) for each unit. Provide line voltage power wiring, in 3/4 inch conduit, and connections from thermostats and sensors to respective equipment that is to be controlled by same. Install thermostats and sensors.

26 09 19.00 - ENCLOSED CONTACTORS

Provide contactors equipped with external pilot lights in cover, and external HOA selector switches in cover. Wire contactors for lighting applications so that the "AUTO" position is the normal activated condition (i.e. photocell controlled, photocell/time-clock controlled, remote switch controlled, BAS controlled, etc.); so that the "OFF" position is manual override to turn lighting off; and so that the "HAND" position is manual override to turn lighting on. Provide contactors with field convertible N.O./N.C. contacts and descriptive nameplates.

Electrically Held Contactors: Provide contactors equal to Square D Class 8903 (or Allen-Bradley Bul. 500L-B494 series) for tungsten lighting loads, ballast lighting loads, and small tension heating loads. Provide contactors that are electrically operated and electrically held (EOEH). Provide contactors in factory NEMA 1 enclosures, with 120V coils (unless indicated otherwise elsewhere where otherwise required to render controls fully operable). Provide "dry" contacts rated at 30A, minimum 250V (600V if required by application). Provide number of poles (minimum of three poles) and number of contactors as required for each application. Field verify coil voltage ratings.

26 09 23.00 - LOCAL LIGHTING CONTROLS

Submittal Requirements
Product Data
For equipment, materials and systems specified in this section. Include product data, descriptive information, technical data, wiring diagrams, load restrictions, etc.

General Requirements
Finishes & Wall Plates: Refer to specification 262726.00 - Wiring Devices and match all requirements.

Toggle Switches: Refer to specification 262726.00 - Wiring Devices.

Momentary-Contact Toggle Switches: Provide Standard of Quality equal to Legrand LVS-1, 3 Amp, 24 VAC/VDC, single-pole, double-throw with center rest, designed to fit conventional toggle switch openings.

Time Clocks
365-Day Multi-Purpose Time Clocks: Provide time clock that is programmable 365-day/24-hour with override controls and holiday option. Provide number of channels indicated on the drawings. Provide required external contactors, relays, etc. to render the control systems fully operational.

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NO.	REVISIONS	DATE
	BID, LL REVIEW, AND PERMIT	06.18.25



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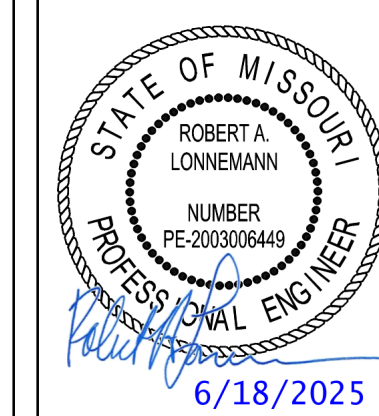


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1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

MECHANICAL COVER SHEET

DRAWN BY	NMS
CHECKED BY	AJK
JOB NUMBER	253003
SHEET NAME	M-001

STANDARD HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	HD	HEAD	RO	REVERSE OSMOSIS
ACCESS	ACCESSORIES	HOA	HAND/OFF/AUTOMATIC	RPM	REVOLUTIONS PER MINUTE
AD	ACCESS DOOR	HP	HORSEPOWER	RS	REFRIGERANT SUCTION
AFF	ABOVE FINISHED FLOOR	HPR	HIGH PRESSURE RETURN	SA	SUPPLY AIR
AMP	AMPERE	HTG	HEATING (STEAM CONDENSATE)	SAT	SUPPLY AIR TEMPERATURE
AP	ACCESS PANEL	HUMIDISTAT	HUMIDISTAT	SC	SHADING COEFFICIENT
APD	AIR PRESSURE DROP	HTG	HEATING	SCD	SMOKE CONTROL DAMPER
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE	HWR	HEATING HOT WATER RETURN	SD	SMOKE DETECTOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HWS	HEATING HOT WATER SUPPLY	SENS	SENSIBLE HEAT
BAS	BUILDING AUTOMATION SYSTEM	HZ	HEATZ	SP	STATIC PRESSURE
BD	BACKDRAFT DAMPER	I/O	INPUT/OUTPUT	TAB	TESTING, ADJUSTING, BALANCE
BHP	BRAKE HORSEPOWER	IAQ	INDOOR AIR QUALITY	TDH	TOTAL DYNAMIC HEAD
BTU	BRITISH THERMAL UNIT	IN HG	INCHES OF MERCURY	TDS	TOTAL DISSOLVED SOLIDS
BTUH	BRITISH THERMAL UNIT PER HOUR	IN WC	INCH WATER COLUMN	TSP	TOTAL STATIC PRESSURE
CD	CEILING DIFFUSER	IN WG	INCH WATER GAUGE	TSTAT	THERMOSTAT
CFH	CUBIC FEET PER HOUR	IPLV	INTERGRATED PART LOAD VALUE	UL	UNDERWRITERS LABORATORY
CFM	CUBIC FEET PER MINUTE	INST	INSTALLED	VAV	VARIABLE AIR VOLUME
CHWR	CHILLED WATER RETURN	KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
CHWS	CHILLED WATER SUPPLY	KWH	KILOWATT HOUR	WB	WET-BULB (TEMPERATURE)
CI	CAST IRON	LAT	LEAVING AIR TEMPERATURE	WG	WATER GAGE
CLG	COOLING	LBS/HR	POUNDS PER HOUR	WPD	WATER SIDE PRESSURE DROP
CO	CARBON MONOXIDE	LF	LINEAR FOOT (FEET)	WIRE	WIRED
CO2	CARBON DIOXIDE	LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)		
COP	COEFFICIENT OF PERFORMANCE	LPS	LOW PRESSURE STEAM		
CV	CONSTANT VOLUME	LWT	LEAVING WATER TEMPERATURE		
CWR	CONDENSER WATER RETURN	MAX	MAXIMUM		
CWS	CONDENSER WATER SUPPLY	MBH	1000 BTUH		
DB	DECIBELS	MCA	MINIMUM BRANCH CIRCUIT AMPACITY		
DB	DRY-BULB TEMPERATURE	MERV	MINIMUM EFFICIENCY REPORTING VALUE		
DC	DISCONNECT	MIN	MINIMUM		
DDC	DIRECT DIGITAL CONTROLS	MOD	MOTOR OPERATED DAMPER		
DEG	DEGREE DELTA (CHANGE IN TEMPERATURE)	MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)		
DIA	DIAMETER	MRI	MAGNETIC RESONANCE IMAGING		
DW	DEIONIZED WATER	MVD	MANUAL VOLUME DAMPER		
DP	DEW POINT TEMPERATURE	NA	NOT APPLICABLE		
DX	DIRECT EXPANSION	NC	NOISE CRITERIA		
EA	EXHAUST AIR	NC	NORMALLY CLOSED		
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN		
EER	ENERGY EFFICIENCY RATIO	NTS	NOT TO SCALE		
EG	EXHAUST GRILLE	O/A	OUTSIDE AIR		
EMERG	EMERGENCY POWER	OC	OVER CURRENT PROTECTION		
ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP		
EWT	ENTERING WATER TEMPERATURE	PPM	PARTS PER MILLION		
EX	EXISTING	PRS	PRESSURE REGULATING (VALVE) STATION		
F	Fahrenheit	PRV	PRESSURE REGULATING VALVE		
F	FLOAT AND THERMOSTATIC	PSI	POUNDS PER SQUARE INCH		
FA	FREE AREA	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE		
FD	FIRE DAMPER	PSIG	POUNDS PER SQUARE INCH - GAGE		
FLA	FULL LOAD AMPERES	RA	RETURN AIR		
FPM	FEET PER MINUTE	RAT	RETURN AIR TEMPERATURE		
FPS	FEET PER SECOND	RH	RELATIVE HUMIDITY		
FT	FEET	RL	REFRIGERANT LIQUID LINE		
FURN	FURNISHED	RLA	RUN LOAD AMPERE		
GA	GAUGE				
GAL	GALLONS				
GPM	GALLONS PER MINUTE				

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
PLAN-VIEW LINE TYPES	
	WORK SHOWN FADING INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
MECHANICAL AIR DEVICES	
	SUPPLY REGISTER
	CEILING DIFFUSER
MECHANICAL DUCTWORK	
	SUPPLY DUCT WITH ELBOW TURNED UP
	SUPPLY DUCT WITH ELBOW TURNED DOWN
	RETURN DUCT WITH ELBOW TURNED UP
	RETURN DUCT WITH ELBOW TURNED DOWN
	EXHAUST DUCT WITH ELBOW TURNED UP
	EXHAUST DUCT WITH ELBOW TURNED DOWN
	SUPPLY DUCT
	RETURN DUCT
	EXHAUST DUCT
	OUTSIDE AIR DUCT
	BRANCH TAKEOFF
	REDUCER, CONCENTRIC
	REDUCER, NONCONCENTRIC
MECHANICAL DUCTWORK ACCESSORIES	
	DUCT WITH MANUAL VOLUME DAMPER
	DUCT MOUNTED SMOKE DETECTOR (HARD WIRE INTERLOCK TO FAN MOTOR BY E.C., FURNISHED BY E.C., INSTALLED BY M.C.)
MECHANICAL STATS & SENSORS	
	TEMPERATURE SENSOR
	LOW VOLTAGE THERMOSTAT
	LINE VOLTAGE THERMOSTAT
MECHANICAL MISCELLANEOUS	
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)

OWNERSHIP OF INSTRUMENTS OF SERVICE
The Consultant shall retain the ownership of the instruments of service, including, without limitation, the copyright therein.

HVAC DEMOLITION GENERAL NOTES

- A. REMOVE EXISTING DUCTWORK, CONTROLS, AND MISCELLANEOUS HVAC EQUIPMENT NOT INTENDED FOR REUSE. FIELD VERIFY THE EXACT SCOPE PRIOR TO BID. COORDINATE ALL DEMOLITION WORK WITH THE LANDLORD AND GENERAL CONTRACTOR.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

KEYED NOTES

- M01 PROVIDE NEW PROGRAMMABLE THERMOSTATS IN BACK OFFICE AREA WITH NEW REMOTE SENSORS RELOCATED TO LOCATIONS INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH ARCHITECT AND SALES RACKS PRIOR TO INSTALLATION. REWIRE TO ROOFTOP UNIT PER MANUFACTURER'S PRINTED INSTRUCTIONS.
- M02 PROVIDE TRANSFER OPENING FULLY ABOVE 13'-0" IN WALL. EQUIVALENT SIZE AS NOTED IN SCHEDULES.
- M03 PROVIDE NEW CEILING MOUNTED EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER AS SCHEDULED. BALANCE TO THE SCHEDULED AIRFLOW. EXTEND EXHAUST THROUGH ROOF AND TERMINATE WITH VENT CAP. MAINTAIN A MINIMUM OF 10'-0" FROM ANY BUILDING INTAKE. LANDLORD APPROVED ROOFING CONTRACTOR TO PERFORM ALL ROOF WORK AT THE GENERAL CONTRACTOR'S EXPENSE.
- M04 PROVIDE AND BALANCE NEW ROOFTOP UNIT AS SCHEDULED. PROVIDE NEW MANUFACTURER'S ROOF CURB. MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES. OUTSIDE AIR INTAKE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FLUE OR BUILDING EXHAUST. ALL ROOF WORK TO BE DONE BY A LANDLORD APPROVED ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE.
- M05 PROVIDE PVC CONDENSATE TAILPIECE PER DETAIL AND TERMINATE AT ROOF.
- M06 COVER OPEN END OF RETURN DUCT WITH 1" MESH HARDWARE CLOTH IN A REMOVABLE METAL FRAME AND ELBOW UP FOR SOUND ATTENUATION.
- M07 PROVIDE NEW WALL-MOUNTED, ELECTRIC HEAT AIR CURTAIN AT 12'-0" A.F.F.. INSTALL PER MANUFACTURER'S PUBLISHED INSTRUCTIONS. AIR CURTAIN SHALL INCLUDE MANUAL OVERRIDE CUT OFF SWITCH, INTERLOCK WITH DOOR SWITCH AND PROVIDE LINE VOLTAGE THERMOSTAT WITH TIME DELAY RELAY.
- M08 EXISTING ROOFTOP UNIT TO REMAIN. BALANCE TO THE SCHEDULED AIRFLOW. CLEAN AND VERIFY PROPER OPERATION; CLEAN COOLING, HEATING COILS, RECHARGE REFRIGERANT, REPLACE BELT, DRIVE, AND MOTOR AS REQUIRED, REPLACE FILTERS. CHECK COMPRESSOR AND FANS, REPLACE/REPAIR AS REQUIRED, PROVIDE OWNER WITH RECONDITIONING REPORT PRIOR TO TURNOVER. FIELD VERIFY EXACT LOCATION AND ORIENTATION PRIOR TO BID.

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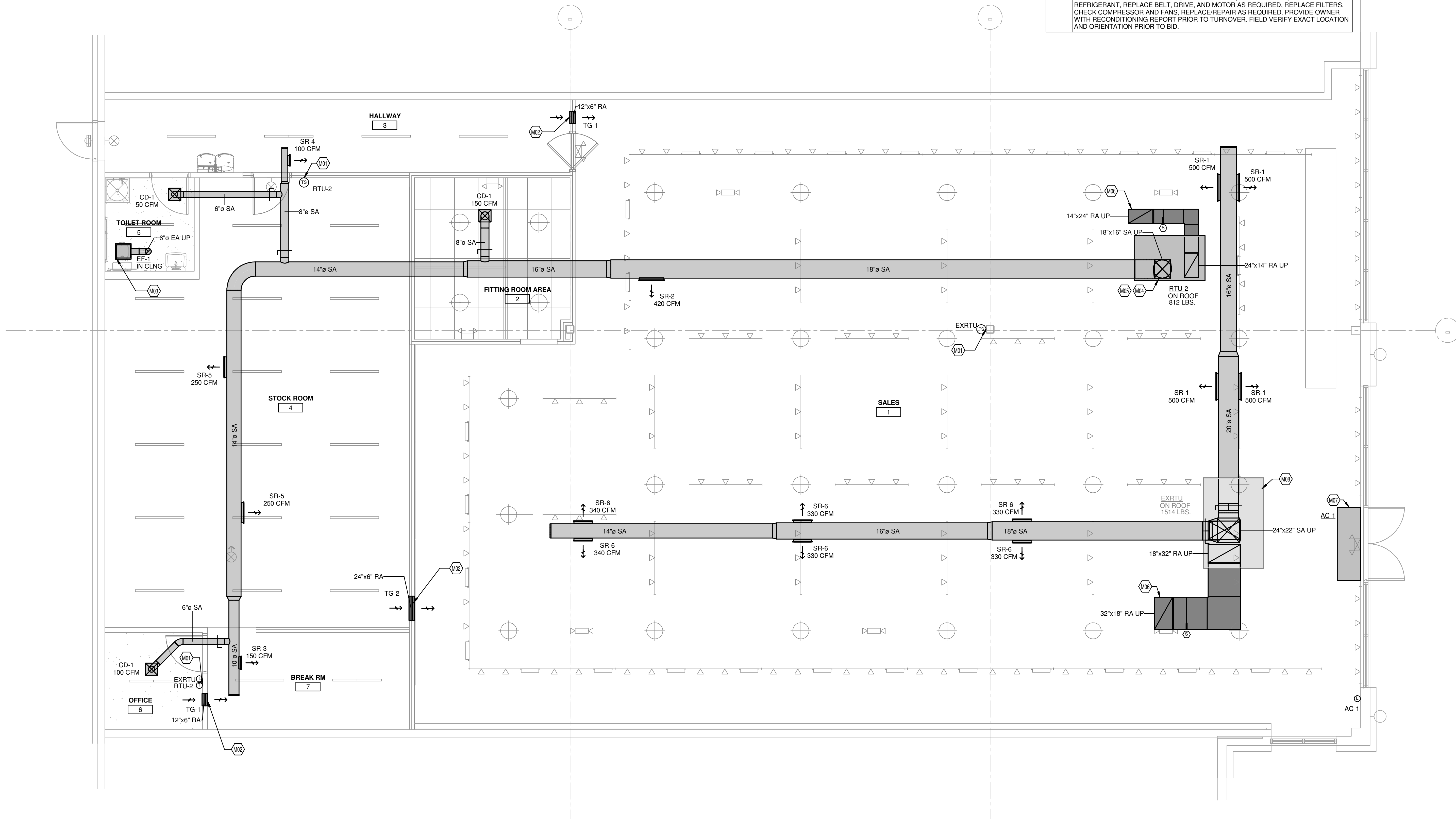
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 ROBERT A. LONNEMANN
 NUMBER PE200308449
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 1744 NW CHIPMAN ROAD
 LEE'S SUMMIT, MO 64081

MECHANICAL DUCTWORK PLAN

DRAWN BY	NMS
CHECKED BY	AJK
JOB NUMBER	25303
SHEET NAME	M-101



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

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COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Carhartt- Lee's Summit
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: Alteration

Construction Site: 1744 NW Chipman Road, Lee's Summit, Missouri 64081
Owner/Agent:
Designer/Contractor: KLH Engineers, 153 Fort Thomas, Kentucky 41075

Mechanical Systems List
Quantity System Type & Description

- 1 RTU-2: (Single Zone w/ Perimeter System):
Heating: 1 each - Central Furnace, Gas, Capacity = 65 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Packaged Terminal Unit, Capacity = 50 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 9.50 EER
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
Fan System: RTU-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
SUPPLY Supply, Constant Volume, 1470 CFM, 0.8 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 70.0 design fan efficiency

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Carhartt- Lee's Summit Report date: 06/10/25
Data filename: Page 1 of 10

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

Project Title: Carhartt- Lee's Summit Report date: 06/10/25
Data filename: Page 4 of 10



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Carhartt- Lee's Summit Report date: 06/10/25
Data filename: Page 2 of 10

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.4 [ME142]²	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143]²	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.12.1 [ME71]²	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.3 [ME73]¹	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.5 [ME113]²	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [ME59]¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4, Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.1 [ME59]¹	Demand control ventilation provided for spaces >500 ft² and >25 people/1000 ft² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.2 [ME115]³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141]¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57]¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.12.3 [FO9]¹			

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116]¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.1 [ME60]²	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2. verification may need to occur during foundation inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62]¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 [ME124]¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3.4 [ME125]¹	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3.5 [ME126]¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.4 [ME63]²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.3 [ME35]¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2.1 [MES3]³	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123]¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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ENERGY COMPLIANCE

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CHECKED BY
AJK
JOB NUMBER
253003
SHEET NAME
M-401

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Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] 2	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27] 1	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2 [EL28] 1	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] 2	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [F18] 3	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [F127] 3	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147] 1	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.2 [F138] 3	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120] 3	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139] 3	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [F140] 3	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.3 [F141] 3	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 [F157] 3	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.1 [F128] 1	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1 [F131] 1	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.2 [F101] 2	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.3 [F132] 1	Economizers have been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.4 [F129] 1	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F17] 1	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [F143] 3	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.4 [F130] 4	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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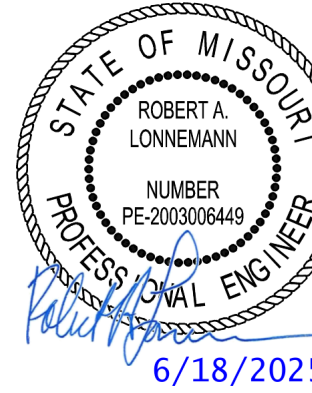
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MECHANICAL SPECIFICATIONS

DRAWN BY	
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	25303
SHEET NAME	
	M-501

Supply ductwork exposed in conditioned spaces excluding mechanical rooms, server rooms and electric equipment rooms
 Toilet exhaust, general exhaust and return ductwork in an insulated joist or attic space.

SECTION 23 07 19.00 – HVAC PIPING INSULATION

Submittal Requirements
 Product Data: For each type of product indicated.

Provide 3/4" Armaflex on refrigerant piping.
 Insulation shall have a minimum thickness as required by Code.
 All insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50.

SECTION 23 09 93.00 – SEQUENCE OF OPERATIONS FOR HVAC CONTRACTS

Submittal Requirements
 Provide written sequences of operation for each controlled system and piece of equipment.

Packaged Rooftop Unit
 1. Startup
 The unit shall operate on a 7 day/night programmable thermostat.
 During startup, the fan shall run with the dampers in the full recirculation position. Provide occupied changeover sequence with optimum start function. When the return air temperature reaches occupied setpoint (adjustable), the minimum outside air damper shall open to the controlled minimum outdoor air position.
 2. Supply Fan Control
 The supply fan shall be two staged and modulate up and down based on a call for heating or cooling.
 3. Space Temperature Control
 Provide 7-day programmable thermostat with digital display of space temperature and setpoint (+/- deg. F, adjustable), with override feature and remote space temperature sensor.
 4. Minimum Outside Air Control
 During occupied mode, the minimum outside air damper shall be open to the scheduled minimum outdoor air flow and modulate proportionally with the supply fan speed to maintain the scheduled minimum outdoor airflow. When the supply fan speed is set to high, outside air damper shall be partially closed allowing minimum outside air flow as scheduled. As supply fan speed is set to low, damper shall fully open allowing minimum outside air flow as scheduled. Provide motor operated dampers.
 5. Economizer Control
 Provide dual enthalpy economizer control. Economizer control shall be enabled whenever the outside air enthalpy is lower than the return air enthalpy. Enthalpy shall be calculated from sensors which are tied to the same controller for accuracy. During economizer mode, the outside air damper shall modulate to 100% open. The economizer damper shall modulate open on a call for cooling and modulate closed on a call for heating. The return damper shall modulate inversely with the economizer damper. Economizer shall have powered relief.
 6. Cooling Control
 Cooling shall be controlled to maintain space temperature setpoint. On a call for cooling, the heating shall be off and supply fan speed shall be low. On a further call for cooling, the supply fan speed shall be high and energized second stage of cooling.
 7. Heating Control
 Heating shall be controlled to maintain space temperature setpoint. On a call for heating, the mechanical cooling shall be off. On a further call for heating, the economizer mode shall be disabled. On a further call for heating, the supply fan shall be set to low speed. On a further call for heating, the supply fan shall be set to high speed and the gas heating shall be staged on. On a further call for heating, the supply fan shall be set to high speed.
 8. Smoke Detector
 When the smoke detector is alarmed, the system shall be alarmed and the air handler shall fail safe with manual reset.
 9. Unoccupied Mode
 During the unoccupied mode of operation, the RTU shall go into night setback mode. Night Setback/Shutdown
 At night setback/shutdown the RTU shall go to fail safe position. Fail safe position is defined by the following: The supply fan is off, the outdoor air intake damper is closed, the heating is off and the mechanical cooling is off. The supply fan shall cycle in conjunction with either the heating or cooling system to maintain a minimum/maximum space temperature depending on the season.

Exhaust Fans (Manual)
 Exhaust fans shall be controlled by local manual switch furnished, installed and wired by electrical contractor. When activated, exhaust fan motor damper shall open and fan shall start.
 (Indicated by EC on HECS schedule)

Controls
 Electrical contractor will provide power wiring. HVAC contractor shall provide all the low voltage wiring of HVAC units and controls, thermostats and controllers. Thermostat shall be by the manufacturer of the HVAC unit (heat/cool/auto/off) with night setback. Provide plastic protective cover for all thermostats/sensors. The electrical contractor shall provide one 3/4" empty conduit from each thermostat/sensor location, turned out above accessible ceilings (in joist space or against overhead slab/deck). The HVAC/Temperature Control Contractor shall provide all other necessary conduit, raceway and wiring related work. Conduit shall be identified in ceiling cavity and shall be provided with sweep bends, bushings and dragline.
 The HVAC/Temperature Control Contractor shall coordinate with the General Contractor to ensure thermal envelope is maintained at these locations.

General Contractor Wiring Requirements and Installation Methods
 Except where specifically indicated otherwise above, the HVAC/Temperature Control Contractor shall provide all electrical work as required for all temperature control related wiring (i.e. conduit, raceway, outlet boxes, junction

balanced in accordance with the referenced standards; are an accurate representation of how the systems have been installed; are a true representation of how the systems are operating at the completion of the testing, adjusting, and balancing procedures; and are an accurate record of all final quantities measured, to establish normal operating values of the systems. Final Report: Upon verification and approval prepare final reports, type written, and organized and formatted as specified below. Submit 2 complete sets of final report to the landlord.

General
 Test, adjust, and balance the following mechanical systems:
 Supply air systems, all pressure ranges
 Return air systems
 Exhaust air systems
 Test systems for proper sound and vibration levels.
 Quality Assurance
 Codes and Standards:
 AABC: "National Standards for Total System Balance".
 ASHRAE: ASHRAE Handbook, 2011 Applications, Chapter 38, Testing, Adjusting, and Balancing.
 Qualifications
 The contractor shall procure the services of an independent Balance and Testing Agency, approved by the Engineer, and a member of Associated Air Balance Council (AABC) or NEBB, which specializes in the balancing and testing of heating, ventilating and air conditioning systems, to balance, adjust and test all air and water systems and equipment as herein specified. All work by this agency shall be done under direct supervision of a qualified heating and ventilating Engineer employed by this agency. All instruments used by this agency shall be accurately calibrated and maintained in good working order.
 Sequencing and Scheduling
 Test, adjust and balance air conditioning systems during summer season and heating systems during winter season, including at least a period of operation at outside conditions within 5 deg F wet bulb temperature of maximum summer design condition, and within 10 deg F dry bulb temperature of minimum winter design condition. Take final temperature readings during seasonal operation.
 Check all filters for cleanliness, provide new as required. Check dampers (volume and fire) for correct and locked position, and temperature control for completeness of installation before starting fans. Place outlet dampers in full open position. Lubricate all motors and bearings. Check fan belt tension. Check fan rotation.
 Air balance and testing shall not begin until the system has been completed and is in full working order. The Contractor shall put all heating, ventilating and air conditioning systems and equipment into full operation and shall continue the operation of same during each working day of testing and balancing. The contractor shall submit within 30 days after receipt of contract, 8 copies of submittal data for the testing and balancing of the air conditioning, heating, and ventilating systems. The Air Balance and Testing Agency shall provide proof of having successfully completed at least five projects of similar size and scope.
 The air balancing contractor shall include the additional cost to change every fan factory installed sheave, pulley and/or belt in order to obtain the design air flows.
 Renovations: In areas where existing HVAC equipment is being utilized, balancing contractor shall include the cost to pre-check each equipment air flows, serving the area of work, prior to demolition, and re-check and adjust each air handler after new construction. Air flows of existing air handlers serving existing spaces shall be similar after project is complete.
 Performing Testing, Adjusting and Balancing
 Perform testing and balancing procedures on each system identified, in accordance with the detailed procedures outlined in the referenced standards.
 Cut insulation, ductwork, and piping for installation of test ports to the minimum extent necessary to allow adequate performance of procedures.
 Patch insulation, ductwork, and housings, using materials identical to those removed.
 Seal ducts and piping, and test for and repair leaks.
 Seal insulation to re-establish integrity of the vapor barrier.
 Mark equipment settings, including damper control positions; valve indicators, fan speed control levers, and similar controls and devices, to show final settings. Mark with paint or other suitable, permanent identification materials.
 Retest, adjust, and balance systems subsequent to significant system modifications, and resubmit test results.

SECTION 23 07 13.00 – DUCT INSULATION

Submittal Requirements
 Product Data: For each product indicated.
 Shop Drawings: Include plans, elevations, sections, details and attachments to other work.
 All liners, insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50. Insulation shall have a minimum installed thermal resistance value of R6 or code minimum, whichever higher.
 Rigid Fiberglass Ductwork Insulation: Glass fibers bonded with a thermosetting resin. Comply with ASTM C 612, Type IB, without facing and with vapor barrier all-service jacket manufactured from kraft paper, reinforcing scrim, aluminum foil, and vinyl film.
 Flexible Fiberglass Ductwork Insulation: Glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II, without facing and with vapor barrier all-service jacket manufactured from kraft paper, reinforcing scrim, aluminum foil, and vinyl film.
 Vapor Barrier Material for Ductwork: Paper-backed aluminum-foil, except as otherwise indicated; strength and permeability rating equivalent to factory-applied vapor barriers on adjoining ductwork insulation, where available; with following additional construction characteristics: High Puncture Resistance: Low vapor transmission (for ducts in exposed areas: Mech. Rooms, etc.)
 Moderate Puncture Resistance: Medium vapor transmission (for ducts in concealed areas).
 All seismic restraint devices shall be designed to accept without failure the forces calculated per the applicable building code.
 Friction from gravity loads shall not be considered resistance to seismic forces.
 Fire protection systems shall meet the requirements of NFPA-13 and NFPA-14 for the building seismic requirements.

SECTION 23 05 48.00 – SEISMIC CONTROL FOR HVAC

Submittal Requirements
 Shop Drawings: Provide performance requirements and design criteria, including analysis data signed and sealed by the qualified engineer responsible for their preparation.

General
 The contractor shall subcontract a licensed structural engineer for the design of all seismic restraint systems required by the presiding jurisdiction. The structural engineer shall provide engineered stamped and signed drawings of seismic design and submit as deferred submittals to supplement the permit drawings.
 Quality Assurance
 The contractor shall provide seismic restraint systems to meet total design lateral force requirements for support and restraint of piping, conduit, cable trays and other similar systems and equipment where required by the applicable building code.
 Seismic Bracing and Support of Systems and Components
 Seismic restraint designer shall coordinate all attachments with the structural engineer of record. Provide engineered stamped and signed drawings of seismic design.
 Seismic restraint designer shall provide visual inspection after installation and approve installation of seismic design components.
 Design analysis shall include calculated dead loads, static seismic loads, and capacity of materials utilized for the connection of the equipment or system to the structure.
 Analysis shall detail anchoring methods, bolt diameter, and embedment depth.
 All seismic restraint devices shall be designed to accept without failure the forces calculated per the applicable building code.
 Friction from gravity loads shall not be considered resistance to seismic forces.
 Fire protection systems shall meet the requirements of NFPA-13 and NFPA-14 for the building seismic requirements.

SECTION 23 05 93.00 – TESTING, ADJUSTING AND BALANCING FOR HVAC

Submittal Requirements
 Shop Drawings: Certified Reports: Submit testing, adjusting, and balancing reports bearing the seal and signature of the Test and Balance Engineer. The reports shall be certified proof that the systems have been tested, adjusted, and

Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com.
 Include an index: The index shall enumerate the contents of the submittal.
 Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. Do not send half the product data on one submittal and the other half as a separate one. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 – Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc.). Resubmittals shall include a copy of the reviewer's comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection.
 Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page.
 For example: The original/first product data submittal for Section 234116 would be labeled as "234116.00-PD-00"; the first resubmittal of same shall be labeled "234116.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "234116.00-SD-00"; the first resubmittal of same shall be labeled "234116.00-SD-01".
 Use of Electronic Drawings from the Owner's Design Team
 Plan drawings for the Project were created with AutoCAD and Revit.
 If expressly permitted by the Owner and the terms of the Contract, editable electronic versions of standard-scale, AutoCAD-based plan drawings may be made available for the creation of shop and as-built drawings.
 Due to the proprietary nature of internal design systems, editable native-software versions of some drawings, including but not limited to system diagrams and details will not be made available in an editable form. In these cases, electronic versions of the drawings may be made available only in PDF, JPG or similar non-editable electronic form, at the sole discretion of the Design Professional.
 The Request Drawings form can be accessed, filled out and submitted at the following internet address (scroll down to bottom of home page): <http://www.klhengrs.com>.

SECTION 23 05 29.00 – HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

Submittal Requirements
 Product Data: For each type of product indicated.
 Shop Drawings: Fabrication and installation details.

General
 Support all ductwork and equipment with hangers or brackets properly from the building structure. Support from decking above is prohibited. Furnish structural steel members where required to support piping and equipment. No portion of piping or valves shall be supported by equipment.
 Ductwork - Support by means of hangers as follows:
 Duct Width Hanger Size and Type Max. Spacing
 30 or less (#16 gage) 8
 31 to 60 (#14 gage) 8
 A pair of hangers shall be located at every transverse joint and elsewhere according to the table.

SECTION 23 05 03.00 – SUBMITTALS FOR HVAC

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Location: Install each unit level/plum and accurately in position indicated in relation to other work; and maintain sufficient clearance for normal service and maintenance, but in no case less than that recommended by manufacturer.
 Coordinate with other trades to assure correct recess size for recessed units.
 Protect interior mechanical equipment with protective covers during balance of construction.
 For ducted equipment, connect ductwork to units with flexible duct connections. Provide transitions to exactly match unit duct connection size. Provide 1" acoustic duct lining on return air side a minimum of 10' from fan. Provide trap at drain piping connection to unit sized per manufacturer's recommendations.
 Access: Provide access space around and over mechanical equipment for service as indicated, but in no case less than that recommended by manufacturer or required by code in effect.
 Access Panels: Furnish all access panels required for proper servicing of equipment. Provide access panels for all concealed valves, vents, controls and cleanout doors, and sprinkler devices required by NFPA, General Contractor as required for finish. Furnish panels to provide frame. Exact locations to be approved by the Architect. Minimum size to be 12" x 12", units to be 16 gauge steel, locking device shall be screwdriver cam locks.
 Rooftop mechanical equipment shall be installed a minimum of 10'-0" from any roof edge regardless of location indicated on plans, unless a screen wall or railing is installed per the local building code. See the architectural plans for coordination.
 Roof Curbs: Furnish roof curbs to roofing installer for installation. Install and secure roof curb to roof structure, in accordance with National Roofing Contractor's Association (NRCA) installation recommendations and shop drawings. Install and secure units on curbs and coordinate roof penetrations and flashing. Install according to roofing manufacturer's recommendation and specifications.
 Rooftop supports: Provide rooftop equipment rails for mechanical equipment located on the roof that spans two or more bar joists. Verify roof structure, mounting supports, and membrane installations are completed to the proper point to allow installation of roof mounted units.
 ELECTRICAL COORDINATION ITEMS
 Electrical Wiring: Install electrical devices furnished by manufacturer but not specified to be factory-mounted. Furnish copy of manufacturer's wiring diagram submittal to Electrical Installer.
 Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division 26 sections. Do not proceed with equipment start-up until wiring installation is acceptable to equipment installer.
 Install electric heating terminal units including components in accordance with equipment manufacturer's written instructions, and with recognized industry practices, complying with applicable installation requirements of NEC and NECA's "Standard of Installation".
 Tighten connectors and terminals, including screws and bolts, in accordance with equipment manufacturer's published torque tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL Std 486A.
 Grounding: Provide equipment grounding connections for electric heating terminals as indicated. Tighten connections to comply with tightening torque values specified in UL Std 486A to assure permanent and effective grounding.

FIELD QUALITY CONTROL
 Testing: After installation has been completed, test to demonstrate proper operation of mechanical equipment at performance requirements specified. When possible, field correct malfunctioning units, then retest to demonstrate compliance. Replace units, which cannot be satisfactorily corrected. Test controls and demonstrate compliance with requirements.
 Cleaning: After construction is completed, including painting, clean unit exposed surfaces, vacuum clean coils and inside of cabinets. Clean factory-finished surfaces. Repair any marred or scratched surfaces with manufacturer's touch-up paint.
 START-UP
 Provide the services of a factory-authorized service representative to start-up rooftop units, in accordance with manufacturer's written start-up instructions. Test controls and demonstrate compliance with requirements. Replace damaged or malfunctioning controls and equipment.
 TRAINING OF OWNER'S PERSONNEL
 Provide services of manufacturer's technical representative for 1-half day to instruct Owner's personnel in operation and maintenance of units. Schedule training with Owner, provide at least 7-day notice to Contractor and Engineer of training date.
 SPARE PARTS
 Provide one complete extra set of filters for each unit. Install new filters at completion of system work and prior to testing, adjusting, and balancing work. Obtain receipt from Owner that new filters have been installed.

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NO.	REVISIONS:	DATE:
	BID, LL REVIEW, AND PERMIT	06.18.25

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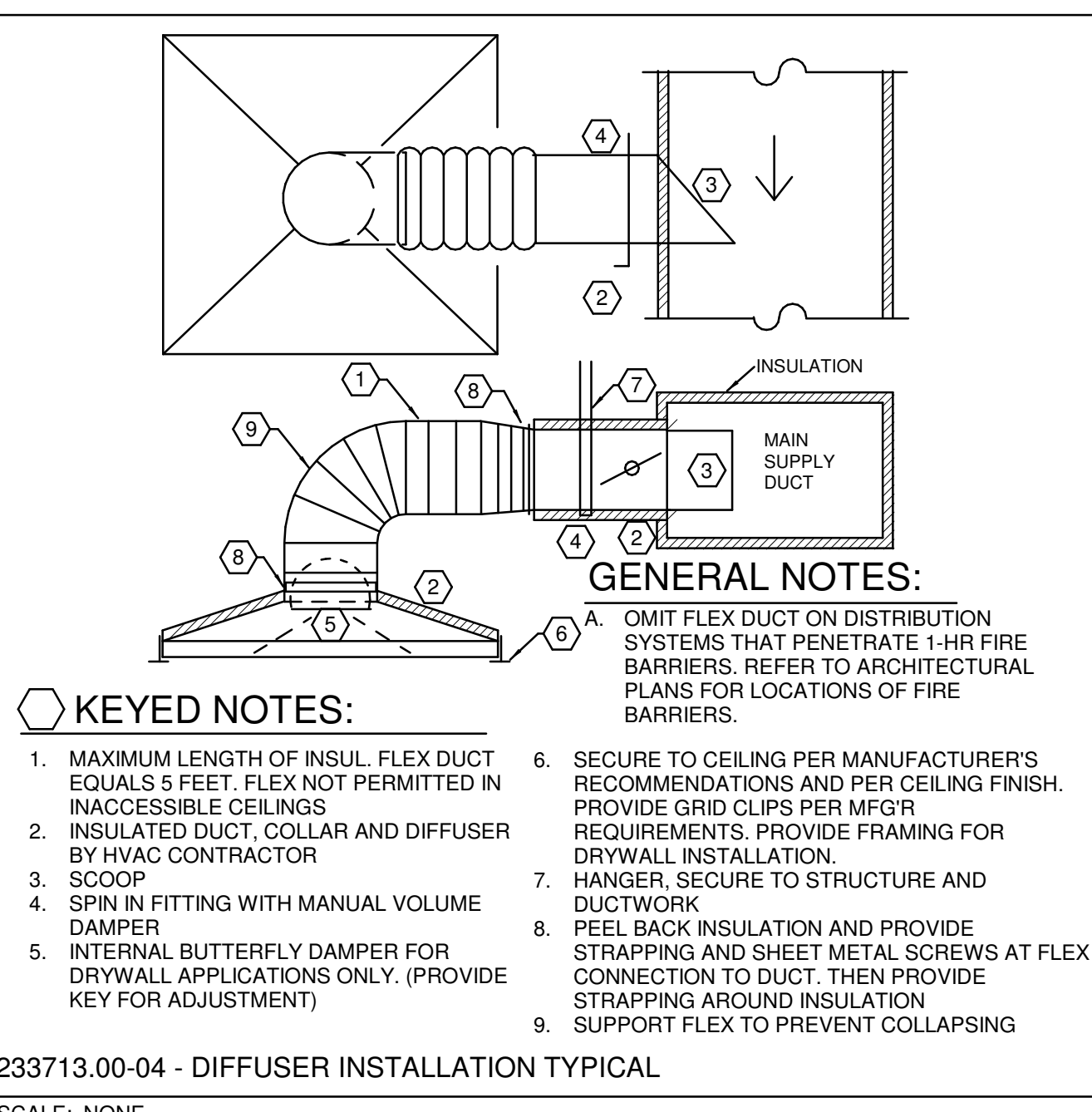
STATE OF MISSOURI
 ROBERT A. LONNEMANN
 NUMBER PE-20030849
 PROFESSIONAL ENGINEER
 6/18/2025
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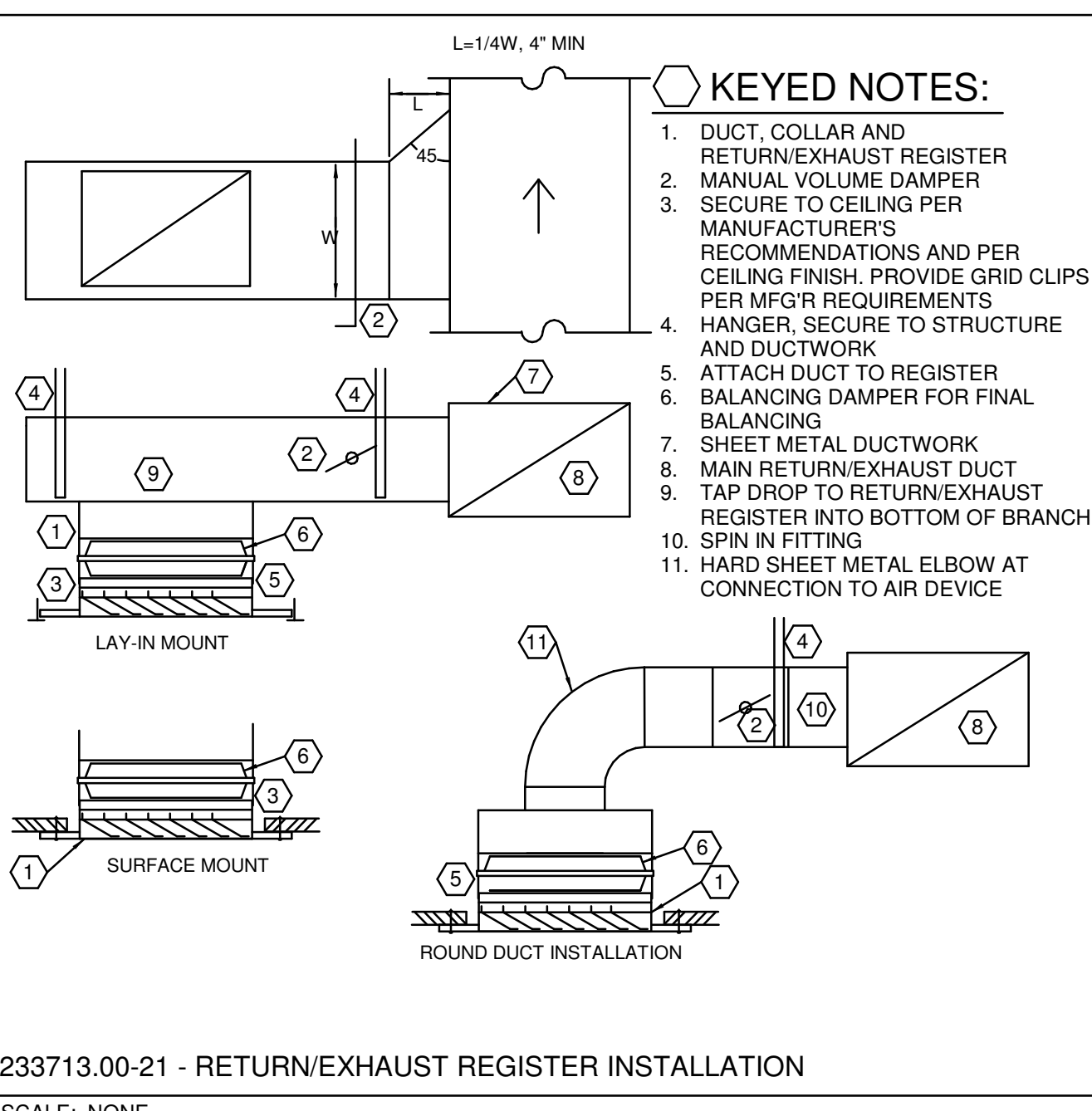
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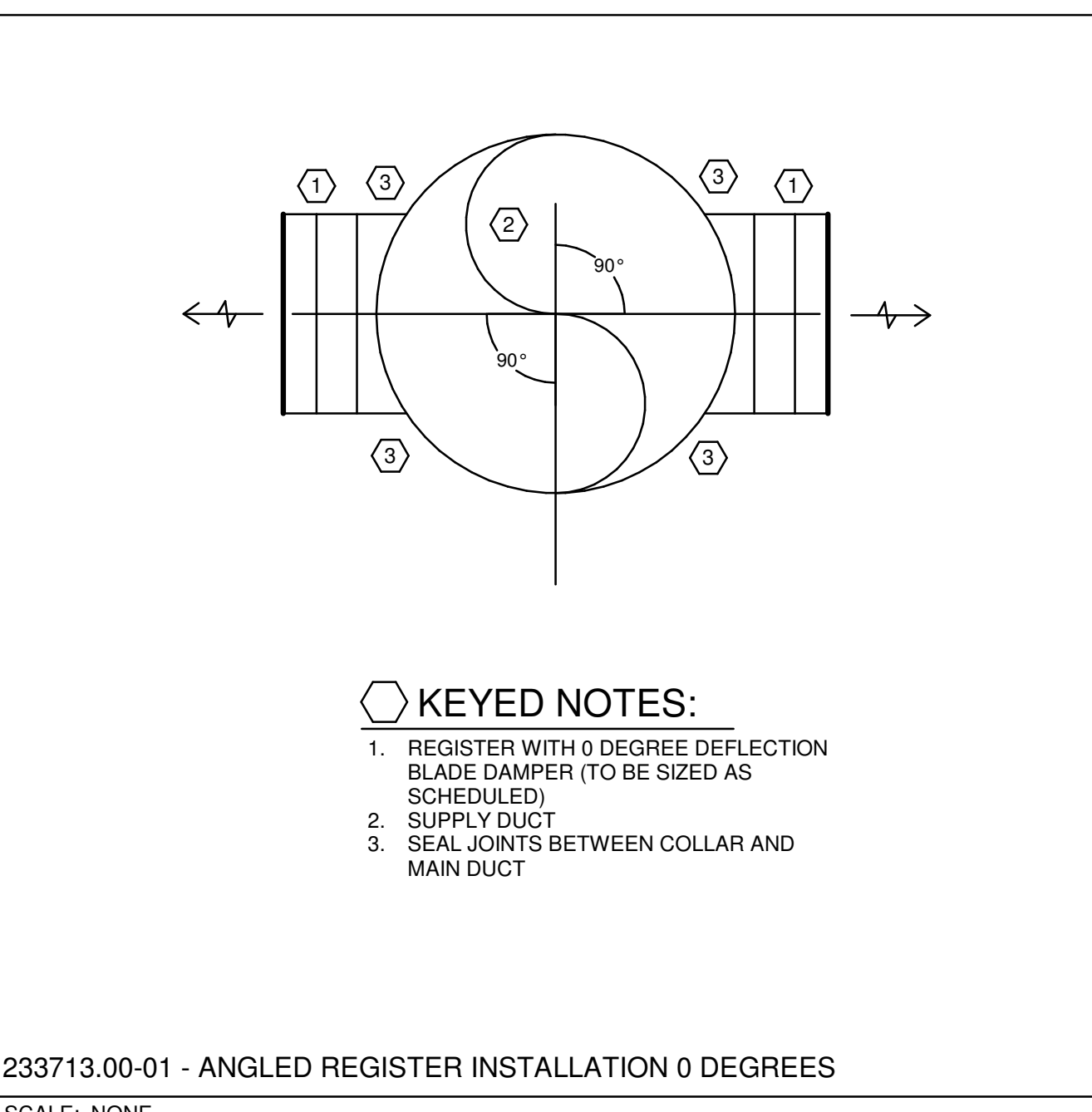
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JOB NUMBER	25303
SHEET NAME	M-601



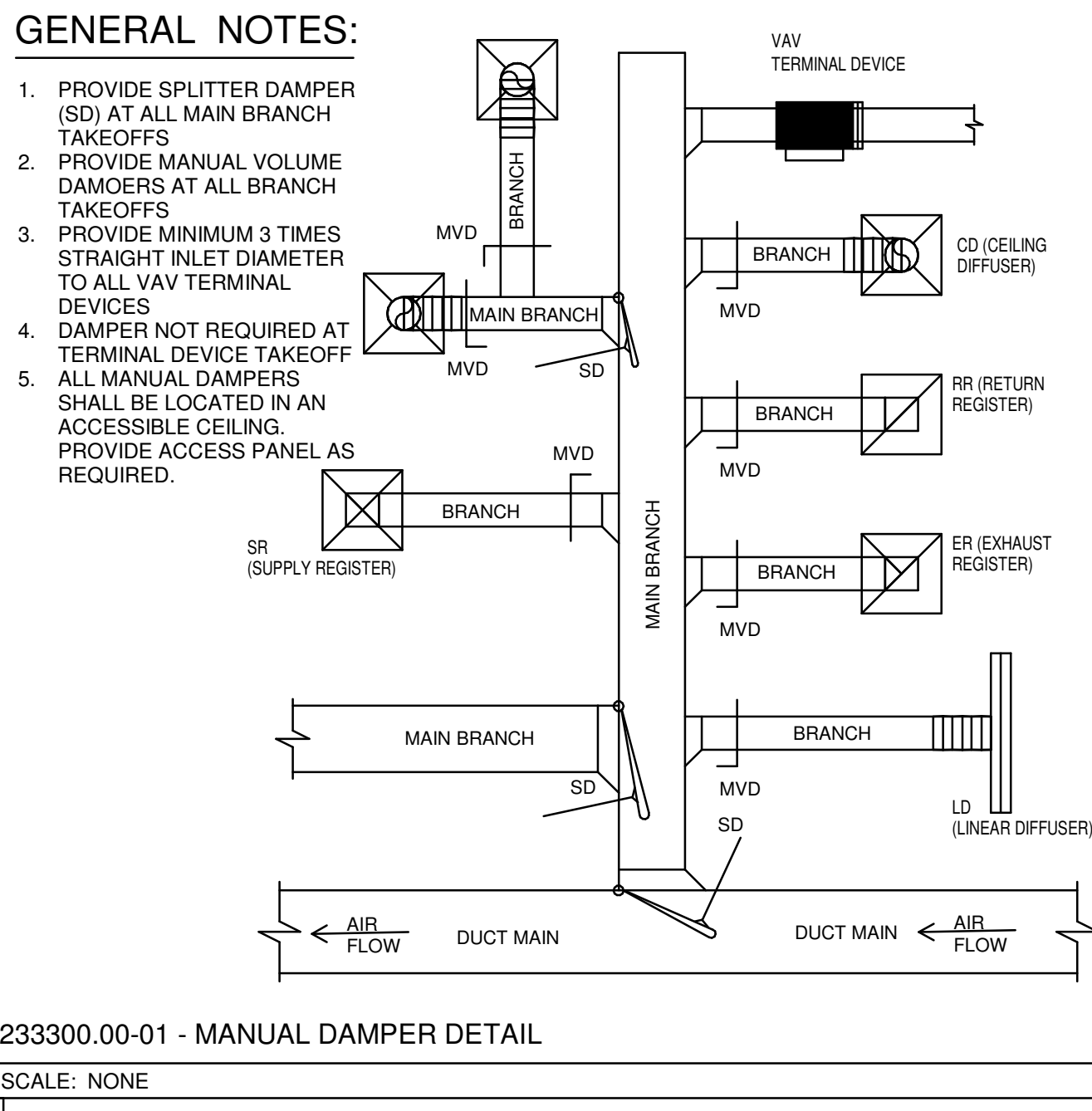
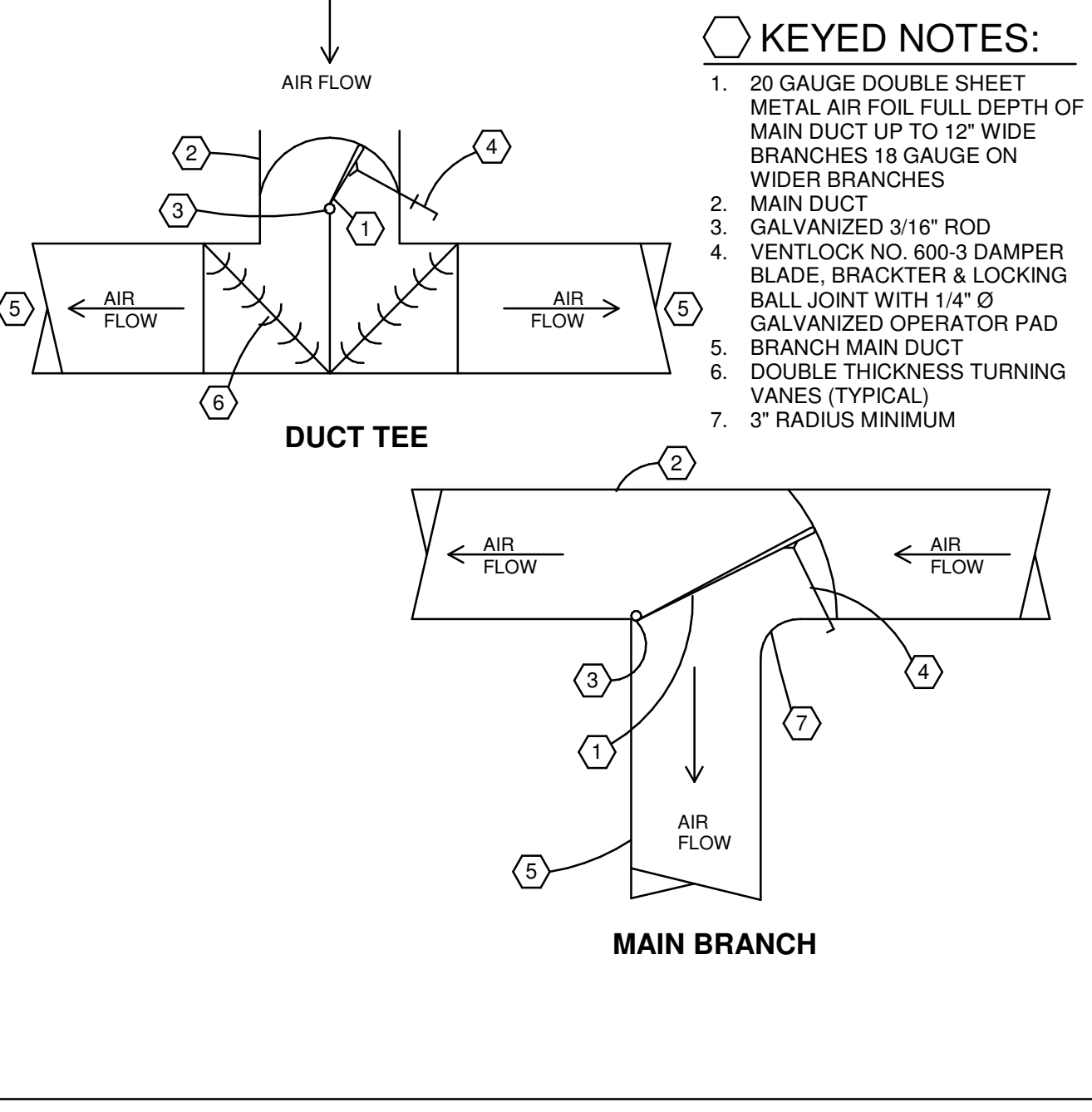
233713.00-04 - DIFFUSER INSTALLATION TYPICAL
 SCALE: NONE



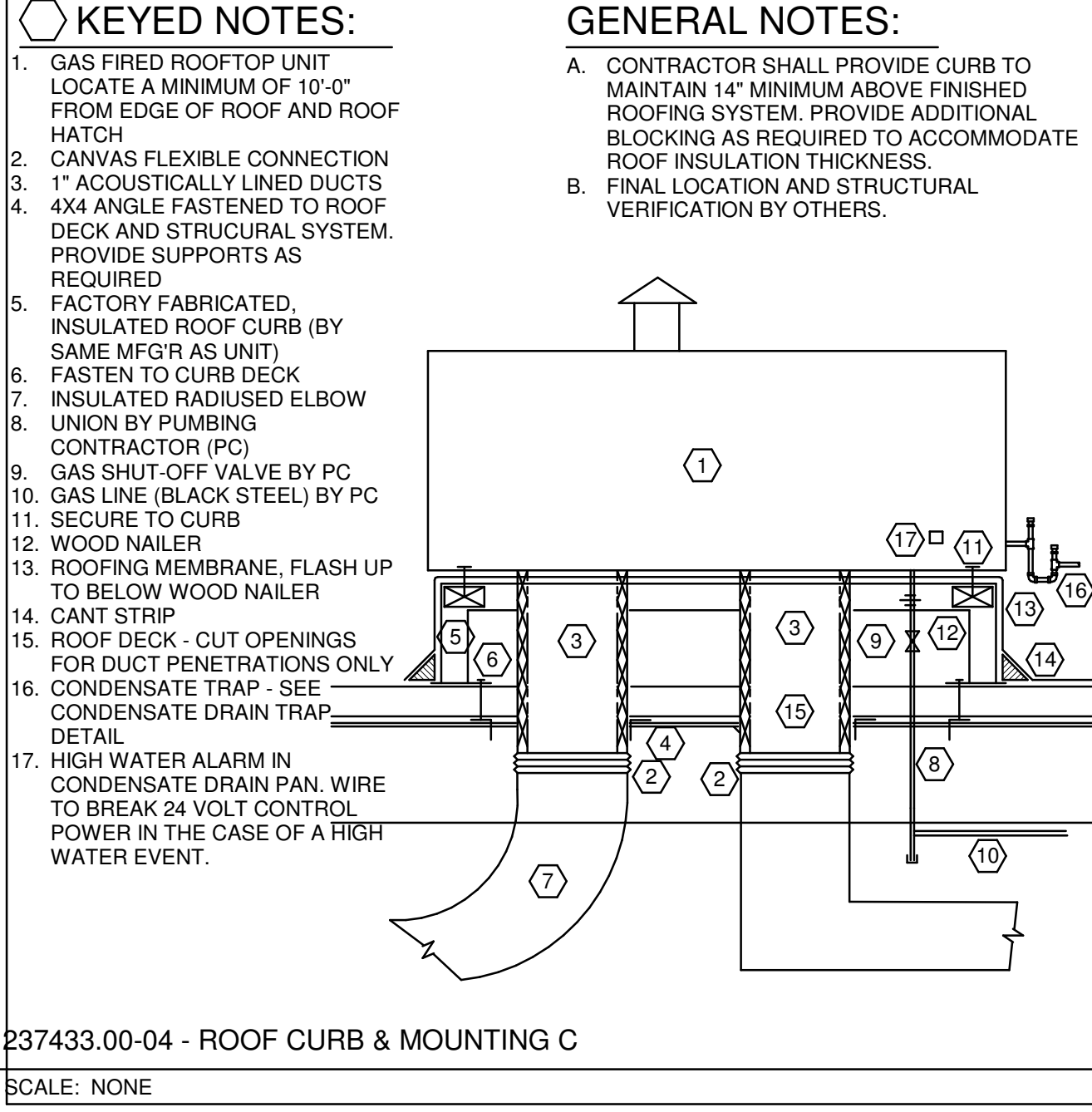
233713.00-21 - RETURN/EXHAUST REGISTER INSTALLATION
 SCALE: NONE



233713.00-01 - ANGLED REGISTER INSTALLATION 0 DEGREES
 SCALE: NONE



233300.00-01 - MANUAL DAMPER DETAIL
 SCALE: NONE



233423.00-15 - CEILING EXHAUST FAN
 SCALE: NONE



237433.00-04 - ROOF CURB & MOUNTING C
 SCALE: NONE

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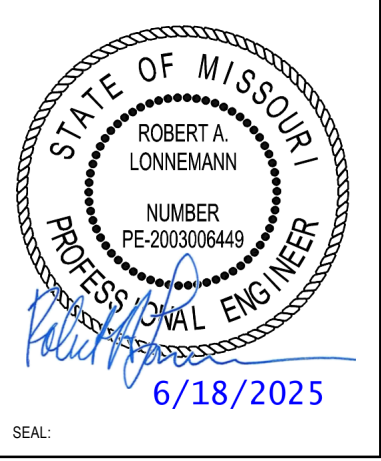
LEXINGTON, KENTUCKY
 LOUISVILLE, KENTUCKY
 COLUMBUS, OHIO
 KLH JOB #: 27551



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NO.	REVISIONS:	DATE:
	BID, LL REVIEW, AND PERMIT	06.18.25

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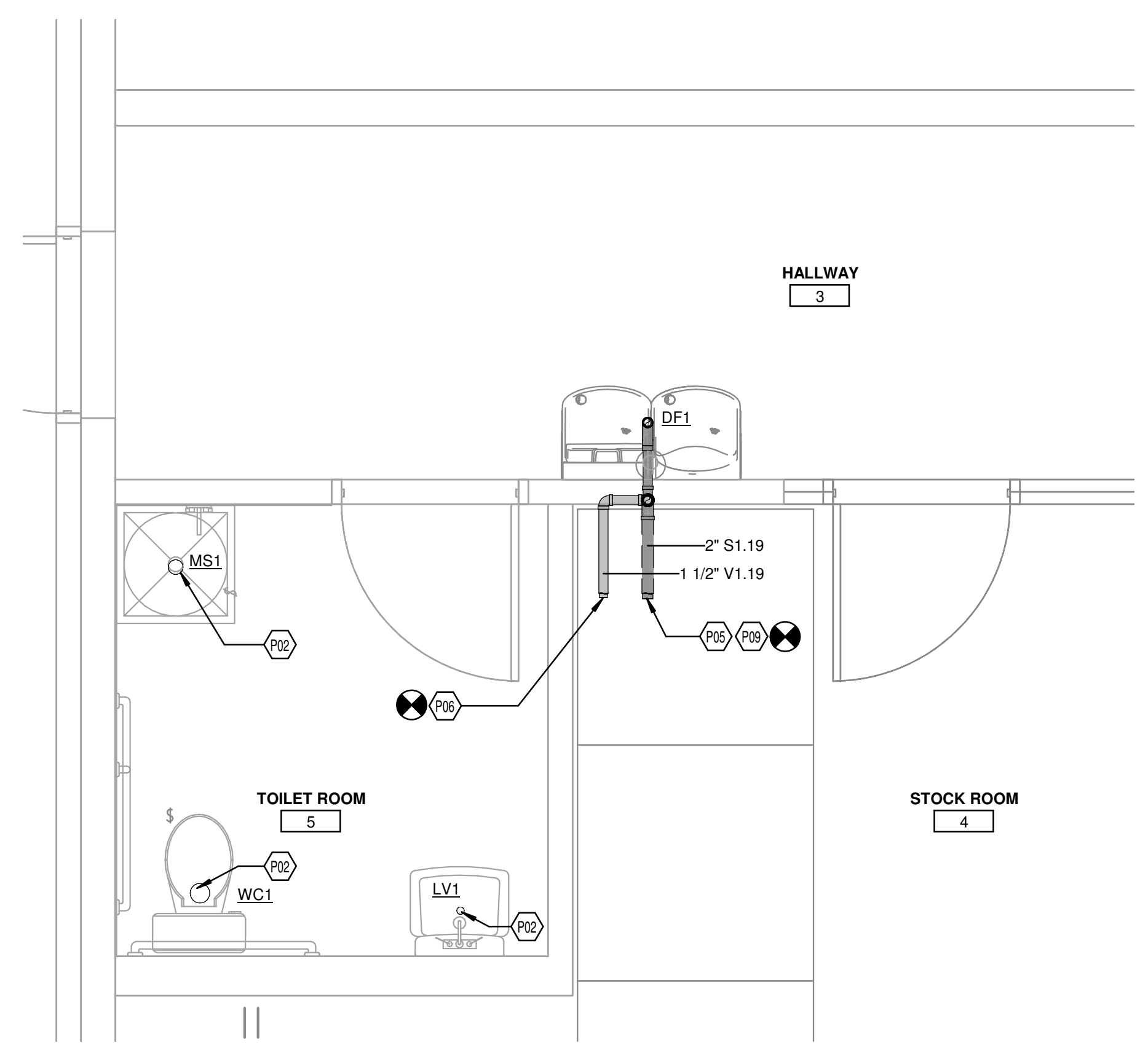
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PLUMBING PLANS

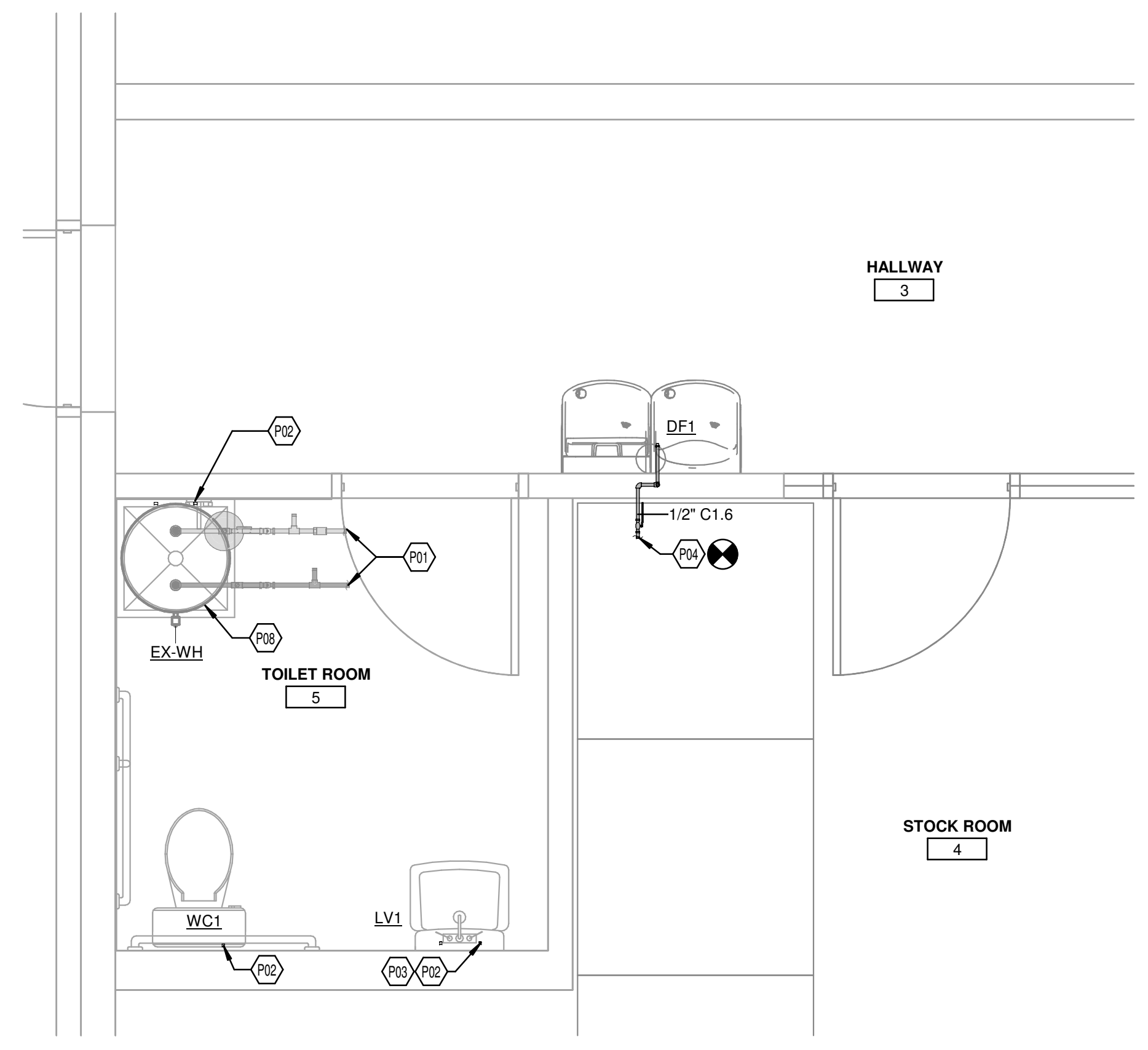
DRAWN BY	NMS
CHECKED BY	AJK
JOB NUMBER	25303
SHEET NAME	P-101

KEYED NOTES	
P01	DEMOLISH EXISTING COLD/HOT WATER SERVING EXISTING RESTROOM TO BE DEMOLISHED.
P02	NEW FIXTURE TO REPLACE EXISTING FIXTURE. EXTEND AND CONNECT NEW PIPING AS NECESSARY FOR REPLACEMENT. FIELD VERIFY EXISTING PIPE MATERIAL TYPE, SIZE, AND LOCATION PRIOR TO MAKING CONNECTION. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR PRECISE DIMENSIONS OF INTENDED LOCATION.
P03	PROVIDE NEW ASSE 1070 RATED THERMOSTATIC MIXING VALVE.
P04	EXTEND DOMESTIC WATER TO EXISTING 3/4" MIN. WATER MAIN. PROVIDE SHUT-OFF, BACKFLOW PREVENTER, PRESSURE REGULATING VALVE, METER, AND REMOTE READER IF REQUIRED. INSULATE ENTIRE LINE WITHIN BUILDING. FIELD VERIFY EXACT LOCATION OF EXISTING DOMESTIC WATER PRIOR TO INSTALLING ANY PIPING. REPORT DIFFERENCES TO ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
P05	CONNECT NEW SANITARY PIPING TO NEAREST EXISTING 4" MINIMUM SANITARY MAIN. FIELD VERIFY EXACT LOCATION, INVERT, DIRECTION OF FLOW, AND SYSTEM TYPE PRIOR TO STARTING WORK. CONTACT ENGINEER WITH ANY DIFFERENCES OTHER THAN WHAT IS SHOWN ON PLAN. PROVIDE CAMERA SCOPING TO ENSURE PIPING SIZES AND LOCATION.
P06	CONNECT NEW VENT PIPING TO NEAREST EXISTING VENT MAIN. FIELD VERIFY EXACT LOCATION, INVERT, MATERIAL, SIZE AND SYSTEM TYPE PRIOR TO STARTING WORK. CONTACT ENGINEER WITH ANY DIFFERENCES OTHER THAN WHAT IS SHOWN ON PLAN.
P07	EXTEND AND CONNECT PREVIOUSLY EXISTING RTU NATURAL GAS SUPPLY PIPING TO NEW RTU.
P08	EXISTING WATER HEATER TO REMAIN AND SERVE EXISTING RESTROOM. 3/4" MIN. COLD AND HOT WATER MAINS TO REMAIN AND CONNECT TO NEW REPLACEMENT FIXTURES.
P09	EXISTING VENT AND SANITARY PIPING SERVING EXISTING EXISTING RESTROOM TO BE DEMOLISHED.

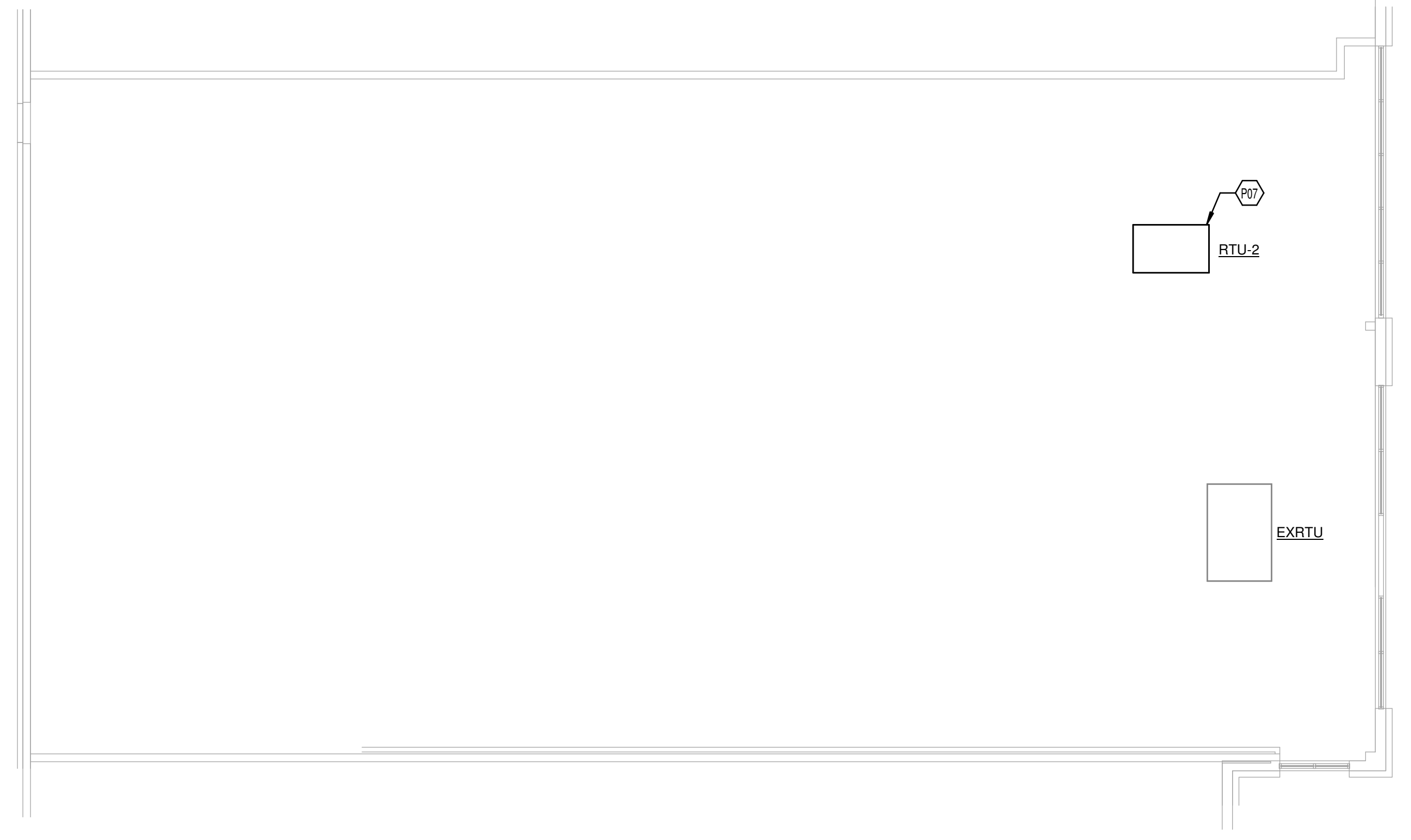
Pipe Type Legend		
Mark	System Name	Pipe Material
C1.6	C1 - Domestic Cold Water	6 - Copper - Type L - ASTM B88
S1.19	S1 - Sanitary	19 - PVC - Schedule 40 - ASTM D1785/D2665
V1.19	V1 - Vent	19 - PVC - Schedule 40 - ASTM D1785/D2665



① ENLARGED PLUMBING SANITARY AND VENT PLAN
 1/2" = 1'-0"



② ENLARGED PLUMBING WATER PLAN
 1/2" = 1'-0"



③ PLUMBING WATER & GAS PLAN - ROOF
 1/8" = 1'-0"


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22 05 17.00 - SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

Submittal Requirements

Product Data: For each type of product indicated.

GENERAL
 Refer to plumbing fixture schedule and install per the manufacturer's installation and operation manual.

PIPING SYSTEMS REQUIRING INSULATION
 Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation.

INSULATION
 Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater.

Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation.

Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities.

FLEXIBLE ELASTOMERIC INSULATION
 Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials.

Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated.

Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
 Aeroflex USA, Inc.; Aerocel, Armacell LLC; AP Armaflex, K-Flex USA;

FIBERGLASS INSULATION
 Fiberglass piping insulation: ASTM C 547, Class 1

Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.

INTERIOR PIPING ABOVE GRADE
 No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Pipe couplings shall conform to ASTM C 1277 and CISPI 310. Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment.

Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306.

BELOW GRADE PIPING
 Solid wall schedule 40 PVC pipe and fittings 2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to ASTM D, DWV patterns and fit schedule 40 pipe.

Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely set and buried to maintain such alignment.

Soil, waste and vent piping smaller 1-1/2" and smaller below grade shall not be permitted.

Slope piping according to local codes.

Protection shall be given to all footings and other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations.

Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout wye.

22 05 53.00 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

Submittal Requirements

Product Data: For each type of product indicated.

GENERAL
 Provide self-adhesive pipe labels with white background and black lettering, contact type with permanent adhesive backing. Include identification of piping service using same designations or abbreviations as used on the drawings and an arrow indicating flow direction.

EQUIPMENT
 Provide self-adhesive plastic equipment labels with white background and black lettering, contact type with permanent adhesive backing, 160 degree F temperature. Include equipment's drawing designation and specification section number where equipment is specified.

22 07 19.00 - PLUMBING SYSTEM INSULATION

Submittal Requirements

Product Data: For each type of product indicated.

GENERAL
 Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques.

Provide insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties.

Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

PIPING SYSTEMS REQUIRING INSULATION
 Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation.

Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater.

Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation.

Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities.

FLEXIBLE ELASTOMERIC INSULATION
 Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials.

Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated.

Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
 Aeroflex USA, Inc.; Aerocel, Armacell LLC; AP Armaflex, K-Flex USA;

FIBERGLASS INSULATION
 Fiberglass piping insulation: ASTM C 547, Class 1

Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.

INTERIOR PIPING ABOVE GRADE
 No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Pipe couplings shall conform to ASTM C 1277 and CISPI 310. Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment.

Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306.

BELOW GRADE PIPING
 Solid wall schedule 40 PVC pipe and fittings 2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to ASTM D, DWV patterns and fit schedule 40 pipe.

Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely set and buried to maintain such alignment.

Soil, waste and vent piping smaller 1-1/2" and smaller below grade shall not be permitted.

Slope piping according to local codes.

Protection shall be given to all footings and other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations.

Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout wye.

22 13 16.00 - SANITARY, WASTE AND VENT PIPING SYSTEM

Submittal Requirements

Product Data: For each type of product indicated.

GENERAL
 Provide a complete soil, waste and vent system in the building and on the site as indicated on the drawings and as specified herein.

Above ground soil, waste and vent piping within buildings including soil stacks, vent stacks, horizontal branches, traps, and connections to fixtures and drains.

Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.

INTERIOR PIPING ABOVE GRADE
 No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Pipe couplings shall conform to ASTM C 1277 and CISPI 310. Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment.

Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306.

BELOW GRADE PIPING
 Solid wall schedule 40 PVC pipe and fittings 2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to ASTM D, DWV patterns and fit schedule 40 pipe.

Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely set and buried to maintain such alignment.

Soil, waste and vent piping smaller 1-1/2" and smaller below grade shall not be permitted.

Slope piping according to local codes.

Protection shall be given to all footings and other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations.

Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout wye.

22 16 13.00 - NATURAL GAS PIPING SYSTEMS

Submittal Requirements

Product Data: For each type of product indicated.

GENERAL
 Plumbing contractor shall be responsible for installing gas piping run-outs to all gas-fired equipment, including equipment supplied by the HVAC and electric contractors. Piping shall be installed full-size (as indicated on the drawings) to each units' gas inlet connection, burner, regulator, etc. Plumbing subcontractor shall provide gas

22 05 03.00 - COMMON WORK RESULTS FOR PLUMBING GENERAL

The General Provisions of the Contract including the General and Supplemental Conditions and General Requirements apply to the work in this section. Before submitting a bid, examine documents of all other trades, visit the site and get acquainted with all conditions that may in any way affect the execution of this contract.

Contractor shall obtain and pay for all permits, certificates of inspection and approvals required.

Submittal of a bid indicates that the contractor has examined the drawings, specifications, and had an opportunity to visit the site to be able to provide a comprehensive complete bid to include providing all materials, labor, tools, and equipment required to provide complete plumbing systems as outlined in Division-22. Clearly state all full load amps (FLA), voltages and model numbers on all submittals.

Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories. Provide wiring diagrams: For power, signal, and control wiring.

APPLICABLE STANDARDS
 The installation of all plumbing work shall conform to all the following, but not limited, applicable local and municipal utility standards, rules and regulations, plumbing codes and statutes having jurisdiction.

All plumbing fixtures, equipment, accessories, and appurtenances shall be NSF/ANSI 61-372 compliant.

2018 International Building Code;
 2018 International Plumbing Code;
 American Society for Testing Materials (ASTM);
 National Sanitation Foundation (NSF);
 American Standards Association (ASA);
 Underwriters Laboratories (UL);
 National Fire Protection Association (NFPA);
 National Electric Code (NEC);

PLANS AND SPECIFICATIONS
 Obtain the latest owner design and construction standards document(s). Comply with all owner-specific requirements in addition to requirements set forth in these specifications and accompanying drawings. Should there be a conflict, the owner's standards shall take precedence over prevailing codes and regulations mandate otherwise.

The drawings that accompany these specifications are diagrammatic. Wherever possible make use of submittal data and verify all dimensions on site. Provide additional fittings as required by site conditions and codes at no additional cost to conform to the structure, avoid obstructions, provide required service clearances and preserve headroom. Do not scale from drawings, all measurements should be taken in the field.

EXISTING CONDITIONS
 Where new plumbing systems are required to be connected to existing plumbing systems, provide all camera scoping and dye testing necessary to verify the exact location, size, invert elevation, pressure, pipe integrity, and system type to ensure a proper connection is executed. The contractor shall notify the engineer immediately if it is found a proper connection cannot be executed.

CUTTING, PATCHING AND DEMOLITION
 The contractor shall be responsible for damages to the grounds, walks, road, building, piping systems, electrical systems, and their equipment and contents, caused by leaks in the piping systems being installed or having been installed by him. The contractor shall repair at his expense all damaged so caused. All repair work shall be done as directed by and in such manner as satisfactory to the architect.

Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the contractor's guarantee bond nor relieving the contractor of his responsibilities during the bonding period. Cut and drill all openings in roofs, walls, and floors required for the installation. Neatly patch all openings cut. Hold cutting and patching to a minimum by arranging with other contractors for all sleeves and openings before construction is started. When drilling/cutting concrete slabs, utilize ground penetrating radar (GPR) and/or X-ray scanning equipment to verify the location is free from obstructions, including but not limited to: structural rebar/strands/tendons, electrical conduit/wiring, and/or piping/drainage.

EXCAVATION AND BACKFILL
 Perform all excavation and backfilling required for this work. Contractor shall consult with utility company prior to beginning excavation. At a minimum, all piping shall be laid on a bed of sand, 6" deep, well tamped into place and properly graded to permit the pipe to have an even bearing throughout its entire length. Sand shall be installed around the piping in 6" lifts to a point 6" above the piping.

WARRANTY
 This contractor shall warrant that all work under this section shall be free of defective work, materials and parts for a period of one year after acceptance of the work and shall repair, revise, and replace, at no cost to the owner, any such defects occurring within the warranty period.

Use of Electronic Drawings from the Owner's Design Team
 If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at <http://www.klhengrs.com> (right hand side of page - Contractor Resources). Direct access to this form can be found here: <http://files.klhengrs.com/requestdrawings.html>

22 05 03.00 - SUBMITTALS FOR PLUMBING

Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of this Division.

Some Divisions may include a division-specific "Submittal Requirements for ..." section. Where this section exists, it articulates additional requirements for submittals that apply to the work of that Division.

The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.

Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings.

PLUMBING - SPECIFICATIONS

DRAWN BY
NMS

CHECKED BY
AJK

JOB NUMBER
253003

SHEET NAME
P-501

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 Lee's Summit, MO 64081

carhartt

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DESIGN LOADS

1. BUILDING CODE	2018 BUILDING CODE
2. RISK CATEGORY	II
3. MINIMUM ROOF LIVE LOAD	20 PSF
4. GROUND SNOW LOAD	20 PSF
5. WIND	
A. BASIC WIND SPEED, (3-SEC GUST) VULT	109 MPH
B. EXPOSURE CATEGORY	C
6. SEISMIC	
A. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, Ss	0.099
B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S1	0.068
C. SITE CLASS (ASSUMED)	D

REQUIRED SPECIAL INSPECTIONS	
IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 110, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705 OF THE 2018 BUILDING CODE.	
ITEM	SECTION
STEEL CONSTRUCTION	1705.2

DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS, AS A MINIMUM:

- REMOVE COMBUSTIBLE MATERIALS FROM AREAS OF WELDING AND SPARKS.
- PROVIDE FIRE PROOF BLANKETS AND SHIELDS TO CONTAIN SPARKS WHERE COMBUSTIBLE MATERIALS CANNOT BE REMOVED.
- PROVIDE A FIRE SAFETY OBSERVER WITH A FIRE EXTINGUISHER ON BOTH THE ROOF AND BELOW THE ROOF DURING WELDING NEAR THE ROOF STRUCTURE.

GENERAL

- THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK SHALL BE COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
- STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
- ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
- CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL INTEGRITY AND STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE TO DESIGN TEMPORARY SHORING AS REQUIRED.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE ARCHITECT/ENGINEER OF RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE BASED UPON LIMITED FIELD SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT TO THE ENGINEER ANY VARIATIONS FROM THE DATA SHOWN HEREIN FOR POSSIBLE REDESIGN.
- BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.
- DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
- USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES.
- ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.

STRUCTURAL STEEL

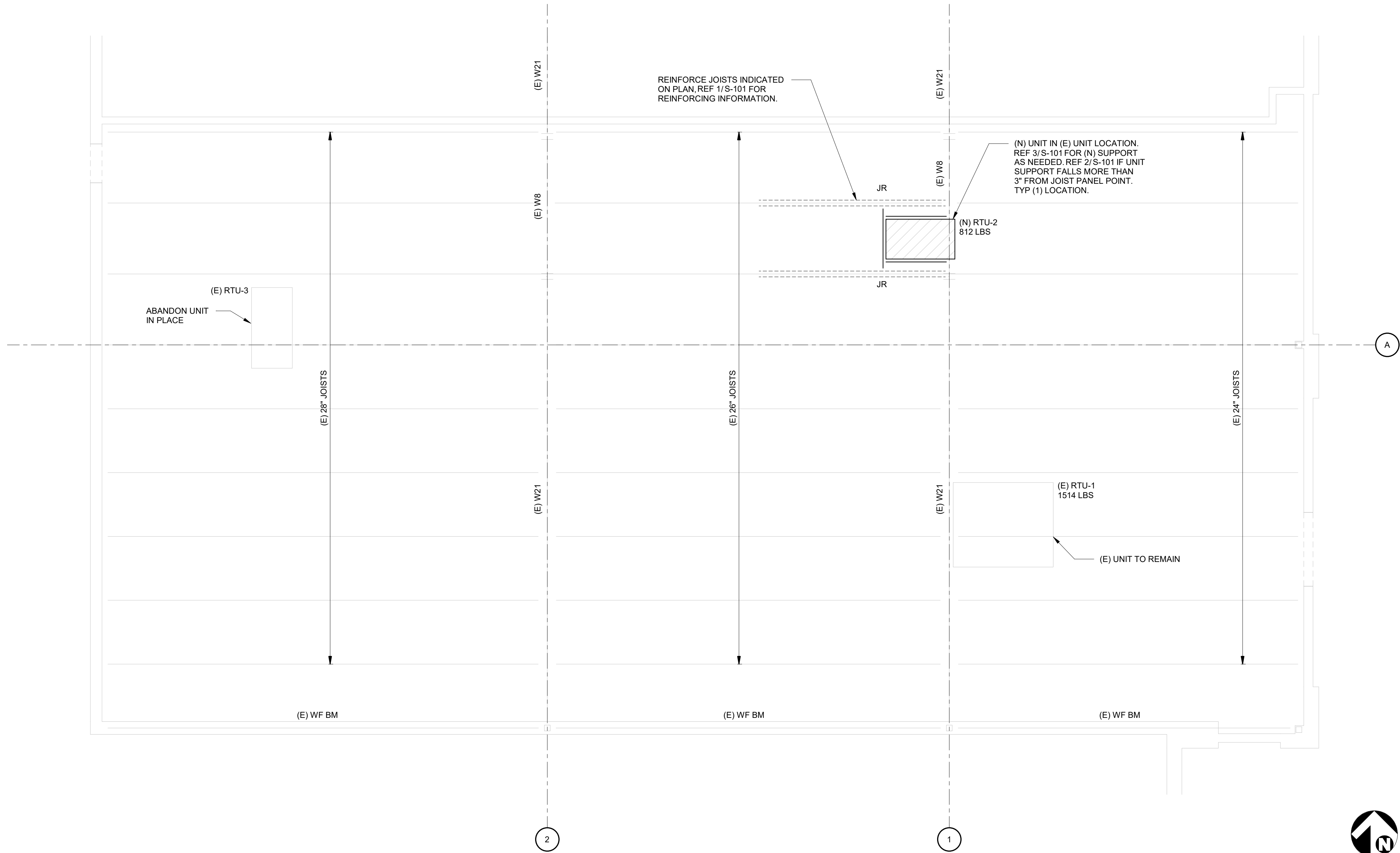
- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (FY):

	YIELD	ASTM SPECIFICATION
A. W, WT SHAPES:	50 KSI	A992
B. BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C. SQUARE, RECTANGULAR HSS:	50 KSI	A500, GRADE C
D. ROUND HSS:	46 KSI	A500, GRADE C
E. STRUCTURAL STEEL PIPE:	35 KSI	A53, GRADE B
F. ANCHOR RODS:	36 KSI	F1554
G. ALL-THREAD RODS:	36 KSI	A36
H. HEADED STUD ANCHORS:	5 KSI TENSILE STRESS	A108, GRADES 1010-1020
- WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.
- ALL CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

EXISTING CONSTRUCTION CONDITIONS

- WORK WITH EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL RELEVANT EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, DETAILS, ETC., BEFORE THE START OF WORK. THE CONTRACTOR MUST REPORT ANY DEVIATIONS FROM CONDITIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO REVIEW THE DESIGN AND FOR POSSIBLE REVISION OF THE CONTRACT DOCUMENTS. BEGINNING FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- THE NATURE OF STRUCTURAL DEMOLITION OR STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED BEFORE THE START OF WORK. IT IS IMPERATIVE TO REPORT ANY ELEMENT WITH QUESTIONABLE STRUCTURAL INTEGRITY TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL FOR IMMEDIATE REVIEW.
- NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED, OR REPLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONDITION OF INDIVIDUAL ELEMENTS (PARTICULARLY RAFTERS, JOISTS, AND STRUCTURAL DECK BOARDS) TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED, AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO DETERMINE THE APPROPRIATE PROCEDURE FOR ELEMENTS IN QUESTIONABLE CONDITION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING, BRACING, AND PROTECTION MEASURES NECESSARY TO SAFEGUARD AND MAINTAIN THE EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR THE SHORING, BRACING, AND PROTECTION OF THE EXISTING CONSTRUCTION FOR REVIEW BY THE DESIGN PROFESSIONAL. THE REVIEW OF THE SUBMITTAL BY THE STRUCTURAL DESIGN PROFESSIONAL IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE PLAN MUST INCLUDE THE PROPOSED CONSTRUCTION SEQUENCE. THE SHORING, BRACING, AND PROTECTION PLAN MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
- DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
- THE EXISTENCE OF UNDERGROUND STRUCTURES AND UTILITIES IS NOT KNOWN. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER OR NECESSARY AUTHORITY AND LOCATING ALL UNDERGROUND STRUCTURES AND UTILITIES.
- NO REINFORCING SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL. ADDITIONAL REINFORCEMENT OF THE SLAB MAY BE REQUIRED FOR NEW PENETRATIONS. CLUSTERED PENETRATIONS MAY NEED TO BE SEPARATED OR REGROUPED DEPENDING ON THE CONFIGURATION OF THE SLAB REINFORCING.
- PENETRATIONS ARE NOT PERMITTED IN PRIMARY STRUCTURAL MEMBERS (BEAMS AND COLUMNS) WITHOUT THE STRUCTURAL DESIGN PROFESSIONAL'S WRITTEN PERMISSION.
- THE CONTRACTOR SHALL USE METHODS AND TAKE PRECAUTIONS TO PREVENT OVERCUTTING FOR ANY NEW PENETRATIONS. SUGGESTED METHODS INCLUDE SAW CUTTING WITH CORED HOLES AT THE CORNERS OF NEW PENETRATIONS OR USING CONCRETE CHAINSAWS WITH PLUNGE-CUTTING CAPABILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING REINFORCING. ANY REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. THE SUBMITTAL MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT JURISDICTION.

1 EXISTING FRAMING PLAN
3/16" = 1'-0"



LEGEND	
(E)	- DENOTES EXISTING
(N)	- DENOTES NEW
FV	- DENOTES FIELD VERIFY
JR	- DENOTES JOIST REINFORCING, REF 1/S-101
XXX	- JOIST
WXX	- WIDE FLANGE
	- DENOTES EXISTING UNIT TO REMAIN
	- DENOTES NEW UNIT IN EXISTING LOCATION

FIELD VERIFICATION NOTE

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM LIMITED EXISTING DRAWINGS, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT ARCHITECT AND ENGINEER TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF GENERAL NOTES.



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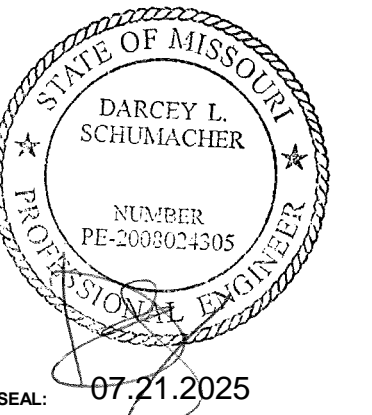


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REVISION	DATE
ISSUE FOR PERMIT, LANDLOAD, PRICINGS	06/18/25
STRUCTURAL REVISION	07/21/25

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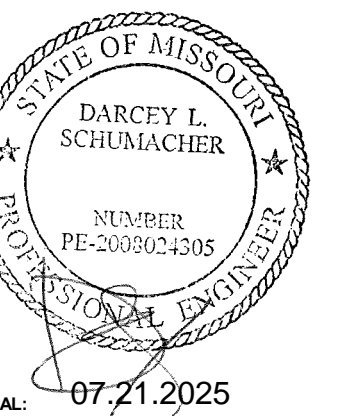
SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

GENERAL NOTES AND FRAMING PLAN

DRAWN BY	AML
CHECKED BY	RLH
JOB NUMBER	25303
SHEET NAME	S-100

REVISION	DATE
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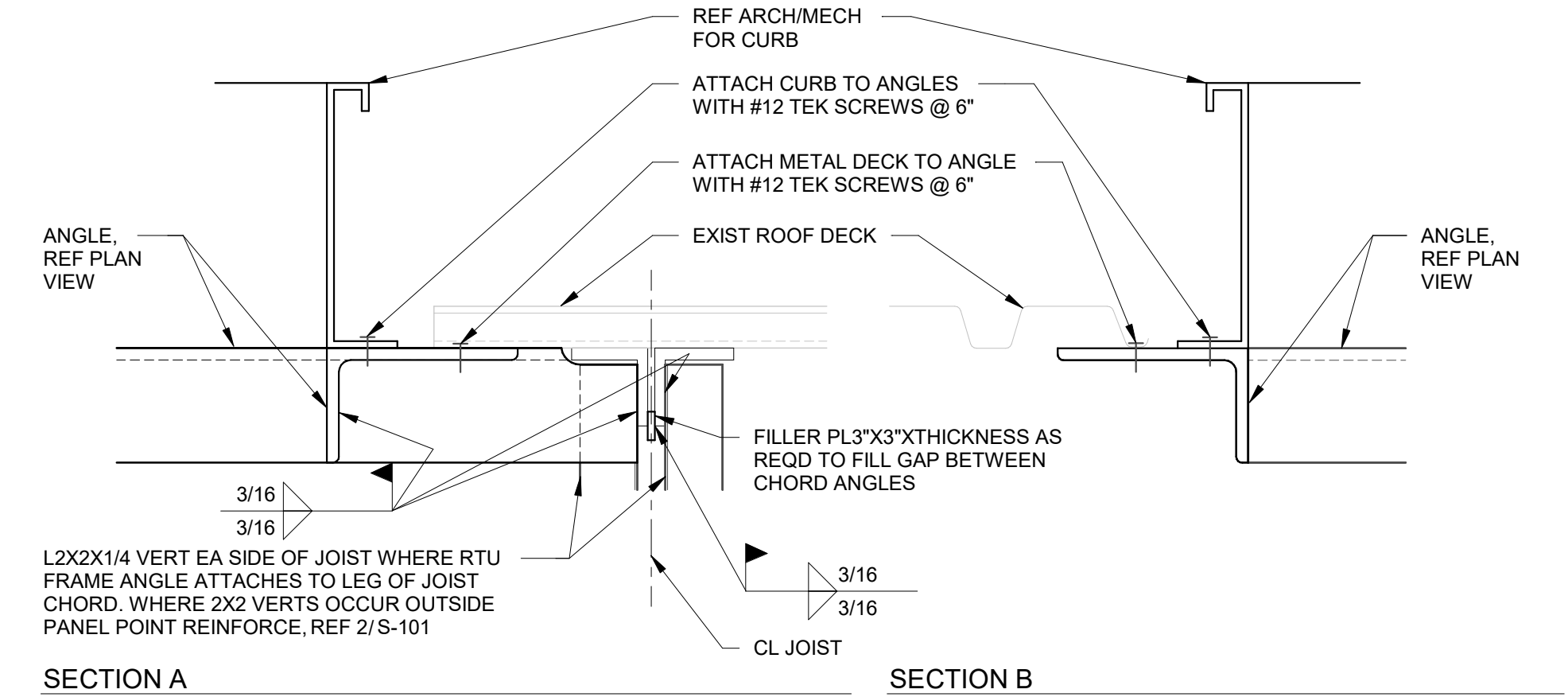
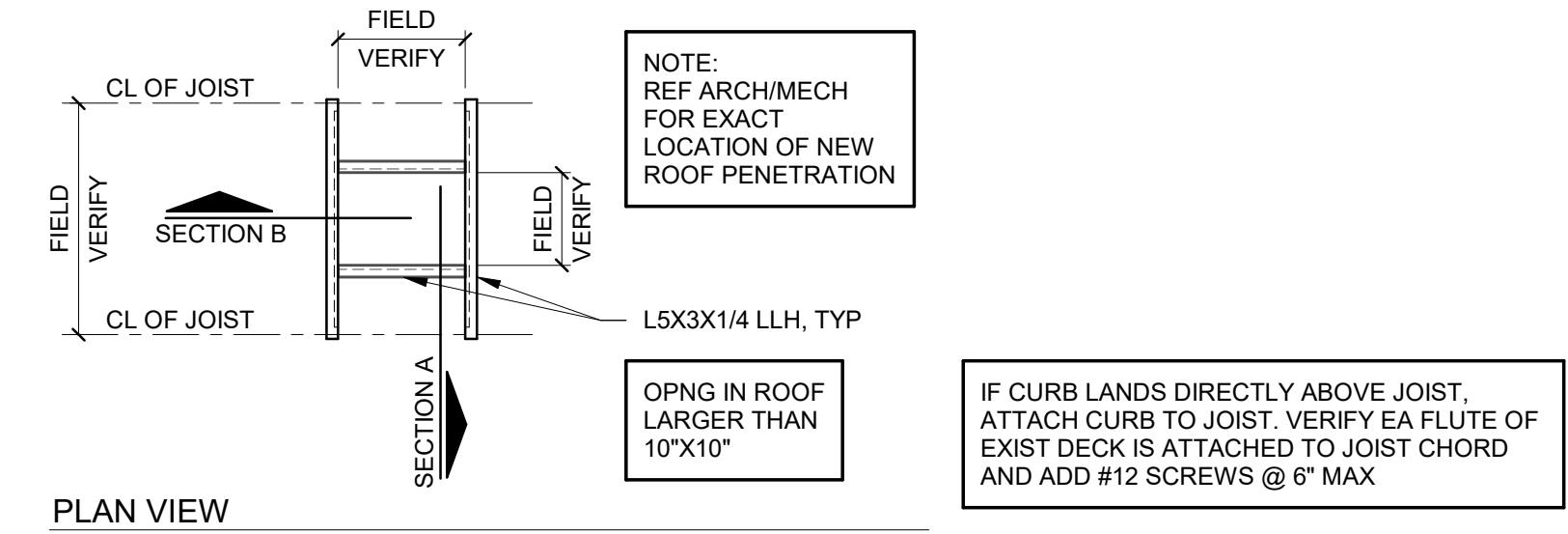
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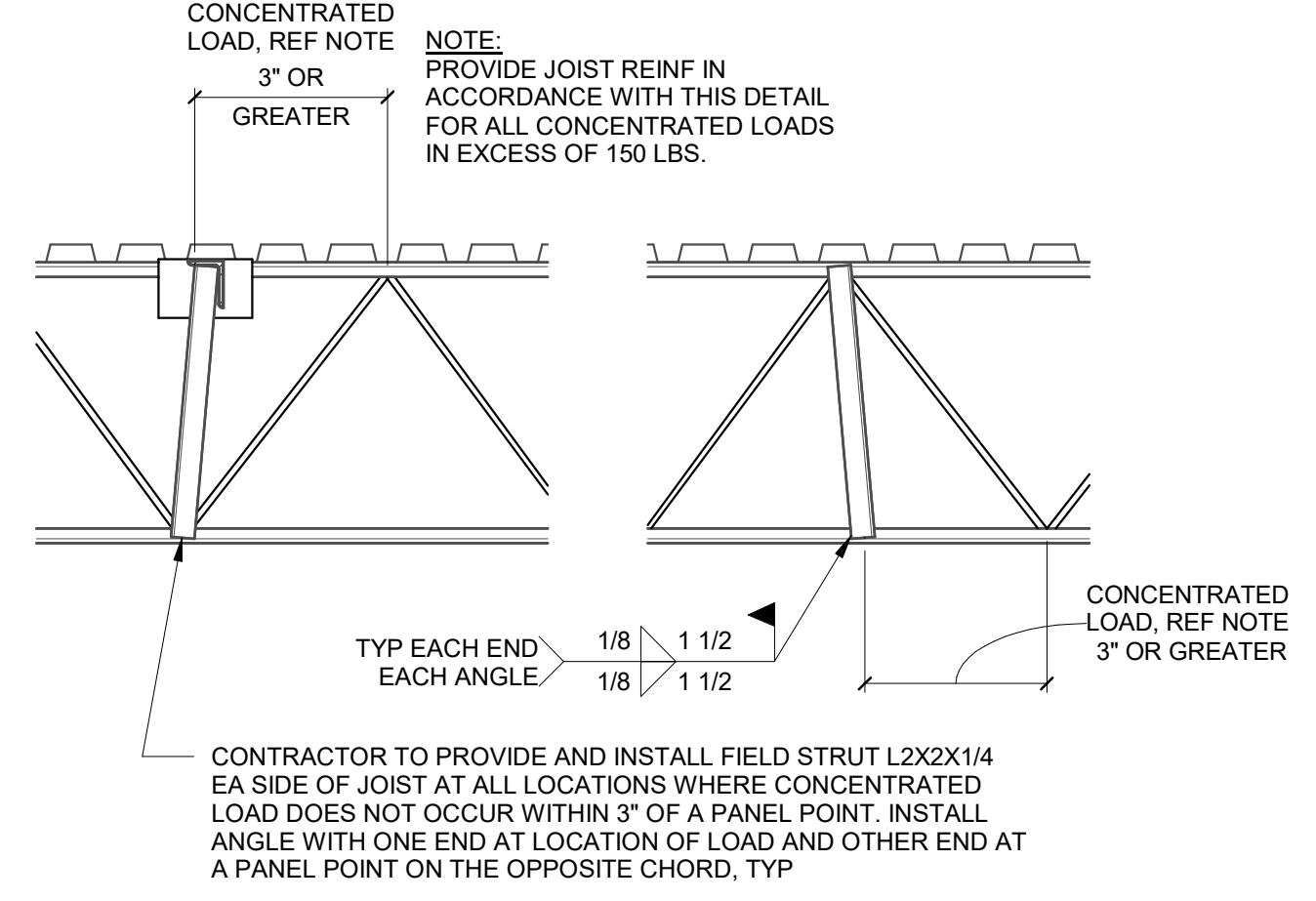
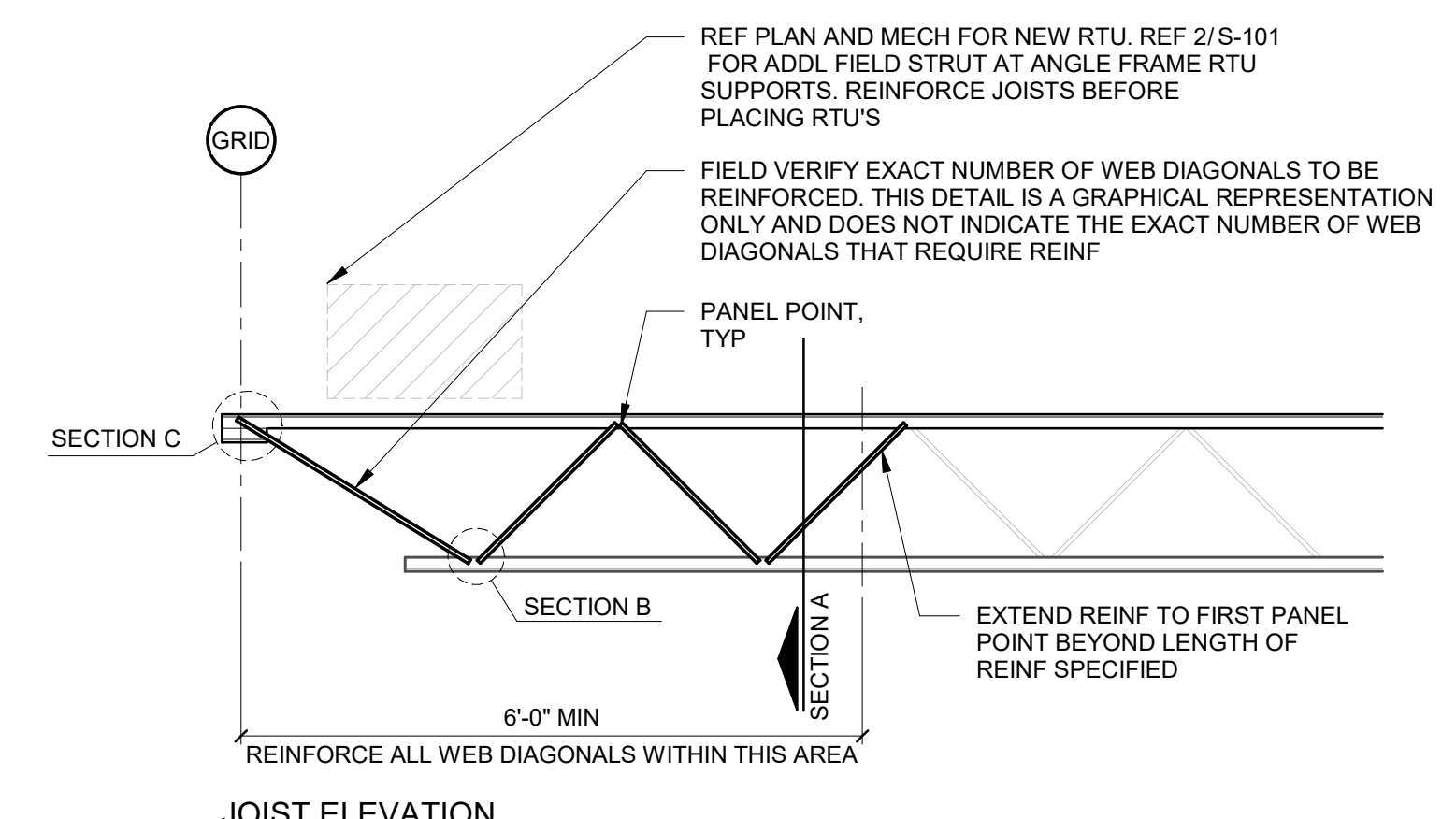
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DETAILS

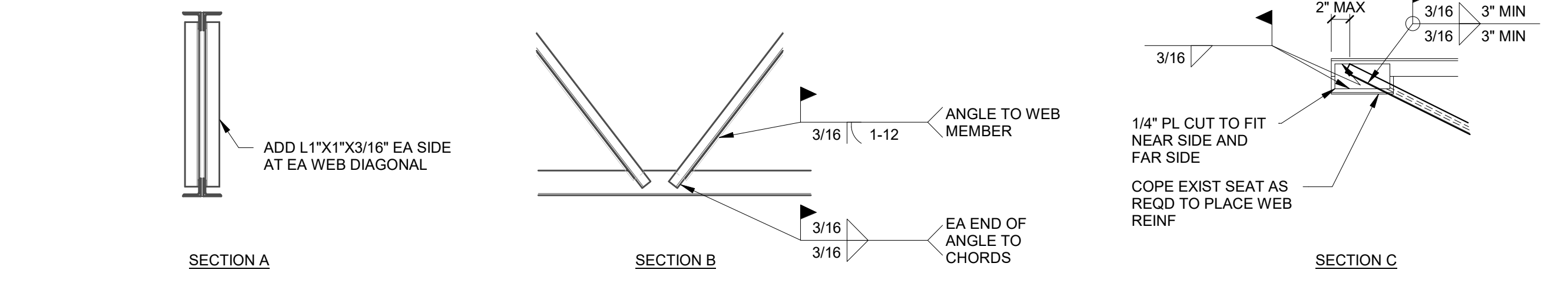
DRAWN BY	AML
CHECKED BY	RLH
JOB NUMBER	25303
SHEET NAME	S-101



3 RTU SUPPORT FRAMING
3/4" = 1'-0"



2 JOIST PANEL POINT DETAIL
3/4" = 1'-0"



1 JOIST REINFORCING DETAIL
3/4" = 1'-0"